



U.S. Department  
of Transportation

**National Highway  
Traffic Safety  
Administration**



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# **2014 FARS/NASS GES Coding and Validation Manual**

# 2014 FARS / NASS GES MANUAL CHANGES SUMMARY

Below is a list of elements that have substantial changes for 2014. These changes, as well as others, are highlighted throughout the manual by ***bold/italic*** type.

**IT IS RECOMMENDED THAT YOU REVIEW THE ENTIRE MANUAL FOR ALL CHANGES**

ELEMENT #	ELEMENT NAME	NEW/REVISED VALUES	NEW/REVISED REMARKS	COMMENTS
	Submission Instructions		X	<ul style="list-style-type: none"> <li>▪ Update Remarks for (103) Data Sources for hierarchy.</li> </ul>
C17	Crash Events - Sequence of Events	X	X	<ul style="list-style-type: none"> <li>▪ Added Remarks from Sequence of Events.</li> <li>▪ Updated Remarks and Attribute for: "70 - <b><i>Non-harmful, Swaying Trailer/Jackknife [non-harmful]</i></b>".</li> <li>▪ Updated Remarks for Attributes: "33 - Curb", "43 - Other Fixed Object" and "68 - Cross Centerline".</li> <li>▪ Added new Attribute and Remarks: "<b><i>79 - Ran Off Roadway - Direction Unknown</i></b>".</li> <li>▪ Added new Remarks for: "Guidelines for PAR Combination Attributes".</li> <li>▪ Updated Remarks for: "Collision with Fixed Object".</li> </ul>
C17	Crash Events - Areas of Impact			<ul style="list-style-type: none"> <li>▪ Added Remarks from Areas of Impact.</li> <li>▪ Updated Remarks regarding "Load".</li> </ul>
C18	First Harmful Event		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks for Attributes for: "33 - Curb" and "43 - Other Fixed Object".</li> <li>▪ Added new Remarks for: "Guidelines for PAR Combination Attributes".</li> <li>▪ Updated Remarks for: "Collision with Fixed Object".</li> </ul>
C20	Relation to Junction (a/b)	X	'X	<ul style="list-style-type: none"> <li>▪ Updated Remarks and Attribute for: "16 - Shared-Use Path <del>or Trail Crossing</del>".</li> </ul>
C22	Relation to Trafficway		X	Updated Remarks for Attribute: "04 - On Roadside"

ELEMENT #	ELEMENT NAME	NEW/REVISED VALUES	NEW/REVISED REMARKS	COMMENTS
C31	Related Factors - Crash Level		X	<ul style="list-style-type: none"> <li>▪ Added new examples for Attribute: "14 - Motor Vehicle Struck by Falling Cargo, or Something That Came Loose From, Or Something That was Set-in-Motion by a Vehicle".</li> </ul>
V5	Unit Type		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks for attributes: "1 - Motor Vehicle In-Transport (Inside or Outside the Trafficway)" and "3 - Motor Vehicle Not In-Transport Outside the Trafficway".</li> </ul>
V13	Vehicle Identification Number		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks at the beginning of the Remarks section.</li> </ul>
V23	Emergency Motor Vehicle Use	X	X	<ul style="list-style-type: none"> <li>▪ Added new Attribute and Remarks for: "<b>6 - Emergency Operation, Emergency Warning Equipment in Use Unknown</b>".</li> </ul>
V28	Areas of Impact		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks regarding "Load".</li> <li>▪ Updated Remarks regarding "Examples for Handling of Non-Collision Events reported by the officer."</li> </ul>
V31	Sequence of Events	X	X	<ul style="list-style-type: none"> <li>▪ Update Remarks and Attribute for: "70 - <b>Non-harmful, Swaying Trailer/Jackknife [non-harmful]</b>".</li> <li>▪ Updated Remarks for Attributes: "33 - Curb", "43 - Other Fixed Object" and "68 - Cross Centerline".</li> <li>▪ Added new Attribute: "<b>79 - Ran Off Roadway - Direction Unknown</b>".</li> <li>▪ Added new Remarks for: "Guidelines for PAR Combination Attributes".</li> <li>▪ Updated Remarks for: "Collision with Fixed Object".</li> </ul>
V32	Most Harmful Event		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks for Attributes: "12 - Motor Vehicle In-Transport", "14 - Parked Motor Vehicle", "33 - Curb" and "43 - Other Fixed Object"</li> <li>▪ Added new Remarks for: "Guidelines for PAR Combination Attributes".</li> <li>▪ Updated Remarks for: "Collision with Fixed Object".</li> </ul>

ELEMENT #	ELEMENT NAME	NEW/REVISED VALUES	NEW/REVISED REMARKS	COMMENTS
V33	Related Factors - Vehicle Level	X	X	<ul style="list-style-type: none"> <li>▪ Revised Attribute and Remarks for: "30 <b>3-Wheeled Multi</b>-Wheeled Motorcycle Conversion".</li> <li>▪ Deleted Attribute and Remarks for: "<b>36 - Electric/Alternative Fuel Vehicle</b>".</li> <li>▪ Updated Remarks for "99 - Unknown".</li> </ul>
D21	Violations Charged	X	X	<ul style="list-style-type: none"> <li>▪ Updated Attribute and Remarks for: "71 - Driving while license withdrawn <del>violation of provisions of work permit</del>"</li> <li>▪ Added Remarks for Attribute: "72 - Other Drivers License Violations".</li> <li>▪ Updated Remarks regarding vehicle ownership.</li> </ul>
D22	Speeding Related		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks regarding dual conditions noted in case materials.</li> <li>▪ Updated Remarks for attribute: "3 - Yes, Exceeded Speed Limit".</li> </ul>
D23	Condition (Impairment) At Time of Crash	X	X	<ul style="list-style-type: none"> <li>▪ Updated Attribute and Remarks for: "03 - Walking with a Cane or Crutches, <b>etc.</b>"</li> <li>▪ Updated Remarks for Attribute: "09 Under the Influence of Alcohol, Drugs or Medication".</li> </ul>
D24	Related Factors - Driver Level	X	X	<ul style="list-style-type: none"> <li>▪ Updated Attributes and Remarks for: "29 - <b>Intentional</b> Illegal Driving on Road Shoulder, in Ditch, on Sidewalk or on Median", "33 - Passing Where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or School Bus Displaying Warning Not to Pass <b>Line</b>" and "51 Driving on Wrong Side of <b>Two-Way Trafficway</b> (Intentional or Unintentional)"</li> <li>▪ Updated Remarks for Attributes: "13 - Mentally Challenged", "20 - Leaving Vehicle Unattended with Engine Running Leaving Vehicle Unattended in Roadway", "54 - Stopped in Roadway (Vehicle Not Abandoned)" and "99 - Unknown".</li> </ul>
PC6	Total Lanes in Roadway		X	<ul style="list-style-type: none"> <li>▪ Added remarks regarding "turn bays, acceleration, deceleration, or center 2-way left turn lanes".</li> </ul>

ELEMENT #	ELEMENT NAME	NEW/REVISED VALUES	NEW/REVISED REMARKS	COMMENTS
PC12	Traffic Control Device		X	<ul style="list-style-type: none"> <li>▪ Added Remarks regarding: "Traffic Calming Devices".</li> </ul>
PC13	Device Functioning		X	<ul style="list-style-type: none"> <li>▪ Added Remarks for Attribute: "3 - Device Functioning Properly".</li> </ul>
PC17	Pre-Event Movement (Prior to Recognition of Critical Event)		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks for Attributes: "01 - Going Straight", "08 - Leaving a Parking Position", "09 - Entering a Parking Position" and "98 - Other (Specify:)".</li> </ul>
PC19	Critical Event: (Event)		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks regarding "Specify".</li> <li>▪ Added Examples for Attribute: "98 - Other Critical Precrash Event (Specify:)".</li> </ul>
PC20	Attempted Avoidance Maneuver		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks for Attributes: "01 - No Avoidance Maneuver" and "98 - Other Action (Specify:)".</li> </ul>
PC23	Crash Type		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks for Attributes: "11 - Forward Impact: Parked Vehicle" and "15 - Forward Impact: Specifics Other".</li> </ul>
P10	Restraint System/ Helmet Use		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks for "29 - Unknown if Helmet Worn" and "99 - Unknown".</li> </ul>
P18	Alcohol Test		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks regarding "alcohol" which was revised to "alcohol (ethanol)".</li> <li>▪ Updated Remarks for Attributes: "08 - Other Test Type" and "98 - Unknown Test Type".</li> </ul>
P21	Drug Test		X	<ul style="list-style-type: none"> <li>▪ Updated Definitions to clarify drug test as a "chemical" test.</li> <li>▪ Updated Remarks for Attribute: "7 - Unknown Test Type".</li> </ul>
P22	Transported to First Medical Facility by		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks for Attribute: "0 - Not Transported".</li> </ul>

ELEMENT #	ELEMENT NAME	NEW/REVISED VALUES	NEW/REVISED REMARKS	COMMENTS
P26	Related Factors - Person (MV Occupant) Level		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks for Attribute: "08 Mentally Challenged".</li> </ul>
NM10	Non-Motorist Location at Time of Crash	X	X	<ul style="list-style-type: none"> <li>▪ Updated Remarks and Attributes for: "01 - <b>At</b> Intersection-In Marked Crosswalk", "02 - <b>At</b> Intersection-Unmarked / <b>Unknown if Marked</b> Crosswalk", "03 - <b>At</b> Intersection-Not In Crosswalk", "09 - <b>At</b> Intersection-Unknown Location", "10 - <b>Not At Non-</b>Intersection-In Marked Crosswalk", "11 - <b>Not At Non-</b>Intersection-On Roadway, Not in Marked Crosswalk", "13 - <b>Not At Non-</b>Intersection-On Roadway, Crosswalk Availability Unknown" and "24 - Shared-Use Path<b>Trail</b>".</li> <li>▪ Updated Remarks for Attribute: "22 - Median / Crossing Islands", "23 - Driveway Access", "28 - Other".</li> </ul>
NM11	Non-Motorist Action/Circumstances Prior to Crash now <b>Non-Motorist Action/Circumstances</b>	X	X	<ul style="list-style-type: none"> <li>▪ Deleted Attributes: "<b>15 - None</b>" and "<b>07 - Movement on Sidewalk</b>".</li> <li>▪ Updated Attributes and Remarks for: "14 - Other: (<b>Specify:</b>)" and "11 - Entering/Exiting <b>Parked or Stopped</b> Vehicle".</li> <li>▪ Updated Remarks for Attributes: "02 - Waiting to Cross Roadway", "05 - Movement Along Roadway with Traffic (In or Adjacent to Travel Lane)", "06 - Movement Along Roadway Against Traffic (In or Adjacent to Travel Lane)", "16 - Movement Along Roadway – Direction Unknown" and "09 - Adjacent to Roadway (e.g., Shoulder, Median)".</li> </ul>
NM12	Non-Motorist Action/Circumstances At Time of Crash now <b>Non-Motorist Contributing Circumstances</b>	X	X	<ul style="list-style-type: none"> <li>▪ Updated Remarks and Attributes for: 00 - <b>No Improper Action-None Noted</b>", "01 - <b>Dart / Dash-Dart - Out</b>", "05 - Entering/Exiting <b>Parked or Stopped</b> Vehicle", "10 - <b>Driving-Riding</b> on Wrong Side of Road", "18 - Operating <b>the Vehicle</b> in Other Erratic, Reckless, Careless or Negligent Manner" and "21 - Other (<b>Specify:</b>)".</li> </ul>

ELEMENT #	ELEMENT NAME	NEW/REVISED VALUES	NEW/REVISED REMARKS	COMMENTS
				<ul style="list-style-type: none"> <li>▪ Add new Attribute and Remarks: "<b>11 - Dash</b>".</li> <li>▪ Delete Attribute and Remarks: "<b>98 - Not Reported</b>".</li> <li>▪ Added Remarks for Attributes: "02 - Failure to Yield Right-of-Way", "03 - Failure to Obey Traffic Signs, Signals or Officer", "04 - In Roadway Improperly Standing, Lying, Working, Playing, etc)", "06 - Inattentive [Talking, Eating, etc.]". "07 - Improper Turn/Merge", "08 - Improper Passing", "09 - Wrong-Way Riding or Walking", "12 - Improper Crossing of Roadway or Intersection (Jaywalking)", "13 - Failing to Have Lights on When Required ", "14 - Operating Without Required Equipment ", "15 - Improper or Erratic Lane Changing", "16 - Failure to Keep in Proper Lane or Running Off Road ", "17- Making Improper Entry to or Exit from Trafficway ", "19 - Not Visible [Dark Clothing, No Lighting, etc.]" and "99 - Unknown".</li> </ul>
NM14	Condition (Impairment at Time of Crash)	X	X	<ul style="list-style-type: none"> <li>▪ Updated Remarks for Attribute: "03 Walking with a Cane or Crutches, <b>etc.</b>)</li> </ul>
NM17	Alcohol Test		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks regarding "alcohol" which was revised to "alcohol (ethanol)".</li> <li>▪ Updated Remarks for Attributes: "08 - Other Test Type" and "98 - Unknown Test Type".</li> </ul>
NM20	Drug Test		X	<ul style="list-style-type: none"> <li>▪ Updated Definitions to clarify drug test as a "chemical" test.</li> <li>▪ Updated Remarks for Attribute: "7 - Unknown Test Type".</li> </ul>
NM21	Transported to First Medical Facility by		X	<ul style="list-style-type: none"> <li>▪ Updated Remarks for Attribute: "0 - Not Transported".</li> </ul>

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
NM25	Related Factors - Person (Not a MV Occupant) Level		X	▪ Updated Remarks for Attribute: "08 Mentally Challenged".

## **2014 FARS/NASS GES Element Definitions**

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
<b><u>CRASH LEVEL ELEMENTS</u></b>			
C1	State Number	FARS Only	This element identifies the state in which the crash occurred.
C2	Consecutive Number	FARS Only	This element identifies the unique case number assigned by the data entry system.
C3	Number of Forms Submitted for Persons Not in MV	Case Structure	This element records the number of Person Forms (Not a Motor Vehicle Occupant) that are applicable to this case.
C4	Number of Vehicle Forms Submitted	Case Structure	This element records all contact motor vehicles which the officer has reported on the Police Accident Report (PAR) as a unit involved in the crash.
C5	Number of Person Forms Submitted	Case Structure	This element records the number of Person Forms (Motor Vehicle Occupant) that are applicable to this case.
C6	County	FARS Only	This element refers to the location of the unstabilized event with regard to the County.
C7	City	FARS Only	This element refers to the location of the unstabilized event with regard to the City.
C8	Crash Date	FARS/GES	This element identifies the date on which the crash occurred.
C9	Crash Time	FARS/GES	This element identifies the time at which the crash occurred.
C10	National Highway System	FARS Only	This element identifies whether or not this crash occurred on a trafficway that is part of the National Highway System.
C11	Roadway Function Class	FARS Only	This element identifies the functional classification of the trafficway on which the crash occurred.
C12	Route Signing	FARS Only	This element identifies the route signing of the trafficway on which the crash occurred.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
C13	Trafficway Identifier	FARS Only	This element captures the identity (name) of the trafficway on which the crash occurred.
C14	Milepoint	FARS Only	This element identifies the milepoint nearest to the location where the crash occurred.
C15	Global Position	FARS Only	This element identifies the location of the crash using Global Position coordinates.
C16	Special Jurisdiction	FARS Only	This element identifies if the location on the trafficway where the crash occurred qualifies as a Special Jurisdiction even though it may be patrolled by state, county or local police (e.g., all State highways running through Indian reservations are under the jurisdiction of the Indian reservation).
C17	Crash Events	FARS/GES	The Crash Events table records in chronological sequence, the set of events resulting from an unstabilized situation that constitutes a motor vehicle traffic crash.
C18	First Harmful Event	FARS/GES	The First Harmful Event is defined as the first injury or damage producing event of the crash.
C19	Manner of Collision	FARS/GES	This element identifies the orientation of two motor vehicles in-transport when they are involved in the First Harmful Event of a collision crash. If the First Harmful Event is not a collision between two motor vehicles in-transport it is classified as such.
C20 (a/b)	Relation to Junction	FARS/GES	The coding of this data element is done in two subfields and based on the location of the first harmful event of the crash. It identifies the crash's location with respect to presence in an interchange area and the crash's location with respect to presence in or proximity to components typically in junction or interchange areas.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
C21	Type of Intersection	FARS/GES	This element identifies and allows separation of various intersection types.
C22	Relation to Trafficway	FARS/GES	This element identifies the location of the crash as it relates to its position within or outside the trafficway based on the First Harmful Event.
C23	Work Zone	FARS/GES	This data element captures that this was a "Work Zone Accident" as defined in ANSI D16.1, 7th Edition. If the crash qualifies as a "Work Zone Accident" then the type of work activity is identified.
C24	Light Condition	FARS/GES	This element records the type/level of light that existed at the time of the crash as reported in the case materials.
C25	Atmospheric Condition	FARS/GES	This element identifies the prevailing atmospheric conditions that existed at the time of the crash as recorded on the crash report form.
C26	School Bus Related	FARS/GES	This data element indicates if a school bus, or motor vehicle functioning as a school bus, is related to the crash.
C27	Rail Grade Crossing Identifier	FARS Only	This element identifies if the crash occurred in or near a Rail Grade Crossing.
C28	Notification Time EMS	FARS Only	Notification Time EMS is the time Emergency Medical Service was notified.
C29	Arrival Time EMS	FARS Only	Arrival Time Ems is the time Emergency Medical Service arrived on the crash scene.
C30	EMS Time at Hospital	FARS Only	EMS Time At Hospital is the time Emergency Medical Service arrived at the treatment facility to which it was transporting victims of the crash.
C31	Related Factors - Crash Level	FARS/GES	This element identifies factors related to the crash expressed by the investigating officer.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
C32	Interstate Highway	GES Only	This element identifies whether or not the crash occurred on an interstate highway. Interstate highway is a Federal Highway Administration classification.
C33	Stratum	GES Only	The number of the category in which the PAR was originally listed in GES PAR Program or Stratification Record.
C34	Police Jurisdiction	GES Only	The number (range 1 through 120) of the police jurisdiction from which the PAR was originally sampled.

### **VEHICLE LEVEL ELEMENTS**

V1	State Number	FARS Only	This element identifies the state in which the crash occurred.
V2	Consecutive Number	FARS Only	This element identifies the unique case number assigned by the data entry system.
V3	Vehicle Number	Case Structure FARS/GES	This element identifies the number assigned to this vehicle in the crash.
V4	Number of Occupants	FARS/GES	This element identifies the number of occupants in each vehicle.
V5	Unit Type	FARS/GES (handled thru PV element)	This element identifies the type of unit that applies to this motor vehicle at the time it became an involved vehicle in the crash and was reported as a unit on the Police Accident Report (PAR).
V6	Hit-And-Run	FARS/GES	This element refers to cases where a vehicle is a contact vehicle in the crash and does not stop to render aid (this can include drivers who flee the scene on foot).
V7	Registration State	FARS Only	This element identifies the state in which this vehicle was registered.
V8	Registered Vehicle Owner	FARS Only	This element is used to determine the type of registered owner of the vehicle.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
V9	Vehicle Make	FARS/GES	This element identifies the make (manufacturer) of this vehicle.
V10	Vehicle Model	FARS/GES	This element identifies the model of this vehicle within a given make.
V11	Body Type	FARS/GES	This element identifies a classification of this vehicle based on its general body configuration, size, shape, doors, etc.
V12	Vehicle Model Year	FARS/GES	This element identifies the manufacturer's model year of this vehicle.
V13	Vehicle Identification Number	FAR/GES	This element records the vehicle identification number (VIN) of this vehicle.
V14	Vehicle Trailing	FARS/GES	This element identifies whether or not this vehicle had any attached trailing units or was towing another motor vehicle.
V15	Jackknife	FARS/GES	This element identifies if this vehicle experienced a "jackknife" anytime during the unstabilized situation.
V16	Motor Carrier Identification Number	FARS/GES	This element records the issuing authority and motor carrier identification number if applicable to this vehicle.
V17	GVWR/GCWR	FARS/GES	This element identifies the gross vehicle weight rating of this vehicle when applicable.
V18	Vehicle Configuration	FARS/GES	This element identifies the general configuration of this vehicle when applicable.
V19	Cargo Body Type	FARS/GES	This element identifies the primary cargo carrying capability of this vehicle when applicable.
V20	Hazardous Material Involvement/Placard	FARS/GES	This element identifies the presence of hazardous cargo for this vehicle and records information about the hazardous cargo when present.
V20 (1)	Hazardous Material Involvement/Placard - HM1	FARS/GES	This element indicates whether the vehicle was carrying hazardous materials - involvement.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
V20 (2)	Hazardous Material Involvement/Placard - HM2	FARS/GES	This element indicates the presence of hazardous materials and whether the vehicle displayed a hazardous materials placard.
V20 (3)	Hazardous Material Involvement/Placard - HM3	FARS/GES	This element indicates the 4-digit identification number.
V20 (4)	Hazardous Material Involvement/Placard - HM4	FARS/GES	This element indicates the single-digit hazardous material class number for the vehicle.
V20 (5)	Hazardous Material Involvement/Placard - HM5	FARS/GES	This element indicates whether or not any hazardous cargo was released from the cargo tank or compartment.
V21	Bus Use	FARS/GES	This data element describes the common type of bus service this vehicle was being used for at the time of the crash or the primary use for the bus if not in service at the time of the crash.
V22	Special Use	FARS/GES	This data element refers to a motor vehicle that is being used for a function other than the primary function for that type vehicle.
V23	Emergency Motor Vehicle Use	FARS/GES	Emergency Motor Vehicle Use indicates operation of any motor vehicle that is legally authorized by a government authority to respond to emergencies with or without the use of emergency warning equipment, such as a police vehicle, fire truck or ambulance while actually engaged in such response.
V24	Travel Speed	FARS/GES	This element records the speed the vehicle was traveling prior to the occurrence of the crash as reported by the investigating officer.
V25	Underride/Override	FARS Only	This element indicates whether an underride or override occurred during the crash involving this vehicle.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
V26	Rollover	FARS/GES	This element identifies whether a rollover or overturn occurred during the crash involving this vehicle.
V27	Location of Rollover	FARS/GES	This element identifies the location of the trip point or start of the vehicle's roll.
V28	Areas of Impact - Initial Contact Point	FARS/GES	This subfield identifies the area on this vehicle that produced the first instance of injury to non-motorists or occupants of this vehicle, or that resulted in the first instance of damage to other property or to this vehicle.
V28	Areas of Impact - Damaged Areas	FARS/GES	This subfield identifies all the areas on this vehicle that were damaged in the crash as reflected in the case materials.
V29	Extent of Damage	FARS/GES	This element indicates the amount of damage sustained by this vehicle in this crash as indicated in the case materials based on an operational damage scale.
V30	Vehicle Removal	FARS/GES	This data element describes the mode in which the vehicle left the scene of the crash.
V31	Sequence of Event	FARS/GES	The events in sequence related to this motor vehicle, regardless of injury and/or property damage. Code each event for this vehicle in the order in which they occur, time wise, from the Police Accident Report (PAR) narrative and diagram.
V32	Most Harmful Event	FARS/GES	This element identifies the event that resulted in the most severe injury or, if no injury, the greatest property damage involving this motor vehicle.
V33	Related Factors - Vehicle Level	FARS/GES	This element identifies factors related to this vehicle expressed by the investigating officer.
V34	Fire Occurrence	FARS/GES	This element identifies whether or not a fire in any way related to the crash occurred in this vehicle.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
<b><u>DRIVER LEVEL ELEMENTS</u></b>			
D1	State Number	FARS Only	This element identifies the state in which the crash occurred.
D2	Consecutive Number	FARS Only	This element identifies the unique case number assigned by the data entry system.
D3	Vehicle Number - Driver Level	Case Structure	This element identifies the vehicle number associated with this driver.
D4	Driver Presence	FARS/GES	This element identifies whether or not a driver was present in this vehicle at the onset of the unstabilized situation.
D5	Driver's License Number	FARS Only	This element identifies the state of issue for the license held by this driver.
D6	Driver's Zip Code	FARS/GES	This element identifies the zip code of this driver's area of residence.
D7	Non-CDL License Type/Status	FARS Only	This element identifies in two subfields the type license held by this driver and the status of the license at the time of the crash.
D8	Commercial Motor Vehicle License Status	FARS Only	This element indicates the status for a driver's Commercial Driver's License (CDL) if applicable.
D9	Compliance with License Endorsements	FARS Only	This element indicates whether the vehicle driven at the time of the crash requires endorsement(s) on a Commercial Driver's License (CDL) and whether this driver is complying with the CDL endorsements.
D10	License Compliance with Class of Vehicle	FARS Only	This element refers to the type of license possessed or not possessed by the driver for the class of vehicle being driven at the time of the crash.
D11	Compliance with License Restrictions	FARS Only	This element identifies if a driver was compliant with restrictions on their license.
D12	Driver Height	FARS Only	This element identifies a driver's height.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
D13	Driver Weight	FARS Only	This element identifies a driver's weight.
D14	Previous Recorded Crashes	FARS Only	This element records any previous crashes for this driver. Counts only events occurring within three years from the crash date.
D15	Previous Recorded Suspensions and Revocations	FARS Only	This element records any previous license suspensions or revocations for this driver. Counts only events occurring within three years from the crash date.
D16	Previous DWI Convictions	FARS Only	This element records any previous DWI convictions for this driver. Counts only events occurring within three years from the crash date.
D17	Previous Speeding Convictions	FARS Only	This element records any previous Speeding convictions for this driver. Counts only events occurring within three years from the crash date.
D18	Previous Other Harmful Moving Violations	FARS Only	This element records any other previous moving violations or convictions for this driver. Counts only events occurring within three years from the crash date.
D19	Date of FIRST Crash, Suspension, Conviction	FARS Only	This element identifies the date of the first crash, suspension, or conviction. Counts only dates of events occurring within three years from the crash date.
D20	Date of LAST Crash, Suspension, Conviction	FARS Only	This element identifies the date of the last crash, suspension, or conviction. Counts only dates of events occurring within three years from the crash date.
D21	Violations Charged	FARS/GES	This element identifies all violations charged to this driver in this crash.
D22	Speeding Related	FARS/GES	This element identifies if the driver's speed was related to the crash as identified by law enforcement.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
D23	Condition (Impairment) at Time of Crash	FARS/GES	This element identifies physical impairments to this driver or non-motorist which may have contributed to the cause of the crash as identified by law enforcement.
D24	Related Factors - Driver Level	FARS/GES	This element identifies factors related to this driver expressed by the investigating officer.

## **PRECRASH LEVEL ELEMENTS**

PC1	State Number	FARS Only	This element identifies the state in which the crash occurred.
PC2	Consecutive Number	FARS Only	This element identifies the unique case number assigned by the data entry system.
PC3	Vehicle Number - Precrash Level	Case Structure	This element identifies the number assigned to this vehicle in the crash.
PC4	Contributing Circumstances, Motor Vehicle	FARS/GES	This element describes the possible pre-existing motor vehicle defects or maintenance conditions that may have contributed to the crash.
PC5	Trafficway Description	FARS/GES	This element identifies the value indicated in the case materials which best describes the trafficway flow just prior to this vehicle's critical precrash event.
PC6	Total Lanes in Roadway	FARS/GES	This element identifies the value indicated in the case materials which best describes the number of travel lanes just prior to this vehicle's critical precrash event.
PC7	Speed Limit	FARS/GES	This element identifies the value indicated in the case materials which best represents the speed limit just prior to this vehicle's critical precrash event.
PC8	Roadway Alignment	FARS/GES	This element identifies the value indicated in the case materials which best represents the roadway alignment prior to this vehicle's critical precrash event.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
PC9	Roadway Grade	FARS/GES	This element identifies the value indicated in the case materials which best represents the roadway grade prior to this vehicle's critical precrash event.
PC10	Roadway Surface Type	FARS Only	This element identifies the value indicated in the case materials which best represents the roadway surface type prior to this vehicle's critical precrash event.
PC11	Roadway Surface Conditions	FARS/GES	This element identifies the value indicated in the case materials which best represents the roadway surface condition prior to this vehicle's critical precrash event.
PC12	Traffic Control Device	FARS/GES	This element identifies the attribute indicated in the case materials which best describes the traffic controls in the vehicle's environment just prior to this vehicle's critical precrash event.
PC13	Device Functioning	FARS/GES	This element identifies the functionality of the traffic control device recorded for this vehicle in the element Traffic Control Device.
PC14	Driver's Vision Obscured By	FARS/GES	This data element records impediments to a driver's visual field that were noted in the case materials.
PC15	Driver Maneuvered to Avoid	FARS/GES	This data element identifies the thing(s) the driver attempted to avoid while the vehicle was on the road portion of the trafficway, just prior to the first harmful event for this vehicle.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
PC16	Driver Distracted By	FARS/GES	This element identifies the attribute(s) which best describe this driver's attention to driving prior to the driver's realization of an impending critical event or just prior to impact if realization of an impending critical event does not occur. Distraction from the primary task of driving occurs when drivers divert their attention from the driving task to some other activity. Also, driving while daydreaming or lost in thought is identified as distracted driving by NHTSA. Physical conditions/impairments (fatigue, alcohol, medical condition, etc.) or psychological states (anger, emotional, depressed, etc.) are not identified as distractions by NHTSA.
PC17	Pre-Event Movement (Prior to Recognition of Critical Event)	FARS/GES	This element identifies the attribute that best describes this vehicle's activity prior to the driver's realization of an impending critical event or just prior to impact if the driver took no action or had no time to attempt any evasive maneuvers.
PC18	Critical Event - Precrash (Category)	FARS/GES	This element identifies the category of the event that was critical to this vehicle being involved in the crash.
PC19	Critical Event - Precrash (Event)	FARS/GES	This element identifies the critical event which made the crash imminent (i.e., something occurred which made the collision possible).
PC20	Attempted Avoidance Maneuver	FARS/GES	This element identifies movements/actions taken by the driver, within a critical crash envelope, in response to a Critical Precrash Event.
PC21	Pre-Impact Stability	FARS/GES	This element assesses the stability of the vehicle after the critical event, but before the impact.
PC22	Pre-Impact Location	FARS/GES	This element assesses the location of the vehicle after the critical event, but before the impact.

2014 Element Number	Element Name	FARS, GES, Case Structure	Description
PC23	Crash Type	FARS/GES	This element describes the type of crash this in-transport vehicle was involved in based on the First Harmful Event and the precrash circumstances.

### Person Level (MV Occupant) Elements

P1	State Number	FARS Only	This element identifies the state in which the crash occurred.
P2	Consecutive Number	FARS Only	This element identifies the unique case number assigned by the data entry system.
P3	Vehicle Number - Person Level	Case Structure	This element identifies the vehicle number associated with this motor vehicle occupant.
P4	Person Number	Case Structure	This element identifies a number for the motor vehicle occupant in consecutive order for the vehicle they occupied.
P5	Age	FARS/GES	This element identifies the persons age, in years, with respect to the person's last birthday.
P6	Sex	FARS/GES	This element identifies the sex of the person involved in the crash.
P7	Person Type	FARS/GES	This element describes the role of this person involved in the crash.
P8	Injury Severity	FARS/GES	This element describes the severity of the injury to this person in the crash.
P9	Seating Position	FARS/GES	This element identifies the location of this person in or on the vehicle.
P10	Restraint System/Helmet Use	FARS/GES	This element records the restraint equipment in use by the occupant, or the helmet in use by a motorcyclist, at the time of the crash.
P11	Any Indication of Mis-Use of Restraint System/ Helmet Use	FARS/GES	This element indicates any mis-use of the restraint system or helmet used by this person.
P12	Air Bag Deployed	FARS/GES	This element is used to record air bag availability and deployment for this person as reported in the case materials.

2014 Element Number	Element Name	FARS, GES, Case Structure	Description
P13	Ejection	FARS/GES	This element describes the ejection status and degree of ejection for this person, excluding motorcycle occupants.
P14	Ejection Path	FARS Only	This element identifies the path by which this person was ejected from the vehicle.
P15	Extrication	FARS Only	This element identifies if equipment or other force was used to remove this person from the vehicle.
P16	Police Reported Alcohol Involvement	FARS/GES	This data element reflects only the judgment of law enforcement as to whether alcohol was involved or not for this person.
P17	Method of Alcohol Determination (By Police)	FARS Only	This element describes the method by which the police made the determination as to whether alcohol was involved or not for this person.
P18	Alcohol Test Type	FARS/GES	This element identifies if an alcohol test was given to this person.
P18	Alcohol Test Status	FARS/GES	This element identifies the type of the alcohol test that was used for this person.
P18	Alcohol Test Result	FAR/GES	This element identifies the alcohol test result for this person.
P19	Police Reported Drug Involvement	FARS/GES	This data element reflects only the judgment of law enforcement as to whether drugs were involved or not for this person.
P20	Method of Drug Determination (By Police)	FARS Only	This element identifies the method by which the police made the determination as to whether drugs were involved or not for this person.
P21	Drug Test Type	FARS/GES	This element identifies if a <b><i>chemical test for the presence of drugs</i></b> was given to this person.
P21	Drug Test Status	FARS/GES	This element identifies the type of <b><i>chemical test for the presence of drugs</i></b> that was used for this person.
P21	Drug Test Result	FARS/GES	This element identifies the <b><i>result of a chemical test for the presence of drugs</i></b> for this person.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
P22	Transported to First Medical Facility By	FARS/GES	This element identifies the method of transportation this person was provided to receive treatment at the first hospital or medical facility.
P23	Died at Scene/Enroute	FARS Only	This element identifies if this person died at the scene of the crash or en route to a hospital or treatment facility.
P24	Death Date	FARS Only	This element records the month, day and year of this person's death.
P25	Death Time	FARS Only	This element identifies factors related to motor vehicle occupants other than driver's expressed by the investigating officer.
P26	Related Factors - Person (MV Occupant) Level	FARS/GES	This element identifies factors related to motor vehicle occupants other than driver's expressed by the investigating officer.
SP1	Death Certificate Number	FARS Only	This element identifies the four-digit GSA code for the City where the death occurred, the two-digit state number and the six-digit sequence number from the death certificate as assigned by the State Vital Statistics or Vital Records Department.
SP2	Fatal Injury at Work	FARS Only	This element indicates if the death certificate identified this person as being "at work" at the time of the crash.
SP3	Race/Hispanic Origin	FARS Only	This element indicates the race and Hispanic origin of this person from the death certificate.

### **Person Level (Not A MV Occupant) Elements**

NM1	State Number	FARS Only	This element identifies the state in which the crash occurred.
NM2	Consecutive Number	FARS Only	This element identifies the unique case number assigned by the data entry system.
NM3	Person Number	Case Structure	This element identifies a number for persons that are not in a motor vehicle in consecutive order.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
NM4	Number of Motor Vehicles Striking Non-Motorist	FARS/GES	This data element captures the in-transport vehicle that made contact with this non-motorist.
NM5	Age	FARS/GES	This element identifies the persons age, in years, with respect to the person's last birthday.
NM6	Sex	FARS/GES	This element identifies the sex of the person involved in the crash
NM7	Person Type	FARS/GES	This element describes the role of this person involved in the crash.
NM8	Injury Severity	FARS/GES	This element describes the severity of the injury to this person in the crash.
NM9	Pedestrian/Bike Typing	FARS/GES	This element describes, through a series of on-screen prompts, the sequence of events and precipitating actions leading to crashes between motor vehicles and pedestrians or bicyclists.
NM9	Marked Crosswalk Present - Pedestrian	FARS/GES	This element identifies if a marked crosswalk was present at the crash site.
NM9	Marked Crosswalk Present - Bike	FARS/GES	This element identifies if a marked crosswalk was present at the crash site.
NM9	Side Walk Present - Pedestrian	FARS/GES	This element identifies if a sidewalk was present at the crash site.
NM9	Side Walk Present - Bike	FARS/GES	This element identifies if a sidewalk was present at the crash site.
NM9	School Zone - Pedestrian	FARS/GES	This element identifies if the crash occurred in a school zone.
NM9	School Zone - Bike	FARS/GES	This element identifies if the crash occurred in a school zone.
NM9	Crash Type - Pedestrian	FARS/GES	This element summarizes the circumstances of the crash for this pedestrian.
NM9	Crash Type - Bike	FARS/GES	This element summarizes the circumstances of the crash for this bicyclist.
NM9	Crash Type Location - Pedestrian	FARS/GES	This element summarizes the circumstances of the crash for this pedestrian.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
NM9	Crash Type Location - Bike	FARS/GES	This element identifies if the crash location with respect to an intersection.
NM9	Pedestrian Position	FARS/GES	This element identifies the location of the pedestrian with respect to the trafficway when contacted.
NM9	Bike Position	FARS/GES	This element identifies the location of the bicyclist with respect to the trafficway when contacted.
NM9	Pedestrians Initial Direction	FARS/GES	This element identifies the compass direction of travel of the pedestrian prior to being contacted.
NM9	Bicyclist Direction	FARS/GES	This element identifies the travel direction of the bicyclist with respect to the flow of traffic prior to being contacted.
NM9	Motorist Initial Direction	FARS/GES	This element identifies the compass direction of travel of the motorist prior to being involved in the crash.
NM9	Motorist Maneuver	FARS/GES	This element identifies if the motorist was engaged in a turning maneuver at an intersection prior to being involved in the crash.
NM9	Intersection Leg	FARS/GES	This element identifies on which leg of an intersection the crash occurred.
NM9	Pedestrian Scenario	FARS/GES	This element summarizes the movements of the pedestrian and motorist in an intersection area.
NM9	Pedestrian Crash Group	FARS/GES	This element provides general groupings of the more specific individual Pedestrian Crash Types.
NM9	Bicyclist Crash Group	FARS/GES	This element provides general groupings of the more specific individual Bicyclist Crash Types.
NM10	Non-Motorist Location At Time of Crash	FARS/GES	This element identifies the location of the non-motorist with respect to the roadway at the time of the crash.
NM11	Non-Motorist <b>Action/Circumstances</b>	FARS/GES	This element describes the action(s) of the non-motorist immediately prior to their involvement in the crash.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
NM12	Non-Motorist <b>Contributing Circumstances</b>	FARS/GES	This element identifies the location of the non-motorist with respect to the roadway at the time of the crash.
NM13	Non-Motorist Safety Equipment	FARS/GES	This element indicates the safety equipment that was used by the non-motorist involved in the crash.
NM14	Condition (Impairment) at Time of Crash	FARS/GES	This element attempts to identify any physical impairment to this non-motorist which may have contributed to the cause of the crash.
NM15	Police Reported Alcohol Involvement	FARS/GES	This data element reflects only the judgment of law enforcement as to whether alcohol was involved or not for this person.
NM16	Method of Alcohol Determination (By Police)	FARS Only	This element describes the method by which the police made the determination as to whether alcohol was involved or not for this person.
NM17	Alcohol Test Type	FARS/GES	This element identifies if an alcohol test was given to this person.
NM17	Alcohol Test Status	FARS/GES	This element identifies the type of the alcohol test that was used for this person.
NM17	Alcohol Test Result	FAR/GES	This element identifies the alcohol test result for this person.
NM18	Police Reported Drug Involvement	FARS/GES	This data element reflects only the judgment of law enforcement as to whether drugs were involved or not for this person.
NM19	Method of Drug Determination (By Police)	FARS Only	This element identifies the method by which the police made the determination as to whether drugs were involved or not for this person.
NM20	Drug Test Type	FARS/GES	This element identifies if a drug test was given to this person.
NM20	Drug Test Status	FARS/GES	This element identifies the type of drug test that was used for this person.
NM20	Drug Test Result	FARS/GES	This element identifies the drug test result for this person.

<b>2014 Element Number</b>	<b>Element Name</b>	<b>FARS, GES, Case Structure</b>	<b>Description</b>
NM21	Transported to First Medical Facility By	FARS/GES	This element identifies the method of transportation this person was provided to receive treatment at the first hospital or medical facility.
NM22	Died at Scene/Enroute	FARS Only	This element identifies if this person died at the scene of the crash or en route to a hospital or treatment facility.
NM23	Death Date	FARS Only	This element records the month, day and year of this person's death.
NM24	Death Time	FARS Only	This element identifies factors related to motor vehicle occupants other than driver's expressed by the investigating officer.
NM25	Related Factors - Person (Not a MV Occupant) Level	FARS/GES	This element identifies factors related to motor vehicle occupants other than driver's expressed by the investigating officer.
SP1	Death Certificate Number	FARS Only	This element identifies the four-digit GSA code for the City where the death occurred, the two-digit state number and the six-digit sequence number from the death certificate as assigned by the State Vital Statistics or Vital Records Department.
SP2	Fatal Injury at Work	FARS Only	This element indicates if the death certificate identified this person as being "at work" at the time of the crash.
SP3	Race/Hispanic Origin	FARS Only	This element indicates the race and Hispanic origin of this person from the death certificate.

# LIST OF ELEMENTS AND LOCATION CODES

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## CRASH LEVEL

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\* FARS ONLY Elements

\*\* GES ONLY Elements

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\* FARS ONLY Elements

\*\* GES ONLY Elements

## PRECRASH LEVEL

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PC5	Trafficway Description	589		PC18	Critical Event – Precrash (Category)
PC6	Total Lanes in Roadway	593		PC19	Critical Event – Precrash (Event)
PC7	Speed Limit	597		PC20	Attempted Avoidance Maneuver
PC8	Roadway Alignment	601		PC21	Pre-Impact Stability
PC9	Roadway Grade	603		PC22	Pre-Impact Location
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## PERSON (MOTOR VEHICLE OCCUPANT) LEVEL

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P6	Sex	705		P20	*Method of Drug Determination By Police
P7	Person Type	707		P21	Drug Test
P8	Injury Severity	711		P22	Transported to First Medical Facility By
P9	Seating Position	717		P23	*Died at Scene/En Route
P10	Restraint System/Helmet Use	723		P24	*Death Date
P11	Any Indication of Mis-Use of Restraint System/Helmet Use	729		P25	*Death Time
P12	Air Bag Deployed	731		P26	Related Factors – Person (MV Occupant) Level
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\* FARS ONLY Elements

\*\* GES ONLY Elements

## PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL

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NM6	Sex	815	NM18	Police Reported Drug Involvement	871
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\* FARS ONLY Elements

\*\* GES ONLY Elements

# **100. SUBMISSION INSTRUCTIONS**

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## **101. HOW TO SUBMIT**

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Each case must have at least one person level form with INJURY SEVERITY attribute Fatal Injury.

### **2014 Data**

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Enter data directly from coded FARS forms, using procedures described in the FARS MICROCOMPUTER DATA ENTRY MANUAL.

### **2015 Data**

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Enter data directly from coded FARS forms (Exhibit 100-A), using procedures described in the FARS Microcomputer Data Entry Manual (MDE Manual).

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## **102. WHEN TO SUBMIT**

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Make submissions at anytime during the week via the Microcomputer.

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## **103. DATA SOURCES**

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1. Use the ANSI D16.1 Manual on Classification of Motor Vehicle Traffic Accident for definitions in coding the FARS forms.
2. Obtain information from death certificates for persons who die as a result of injuries sustained in a motor vehicle crash.
3. Use the State Driver Licensing Files, Vehicle Registration Files, Highway Department Files, Crash Reports and Vital Statistics Reports.
4. See the FARS MDE manual for instructions on obtaining data and responding to requests for data on vehicles and drivers not registered or licensed in your state.
5. The message system should be used to obtain data on involved Out-of-State drivers and vehicles.

**6. Hierarchy for Case Materials:**

- a. *An Early Notification Report can get corrected/replaced/clarified by*
- b. *A Police Accident Report (PAR) can get corrected/replaced/clarified by*
- c. *A Supplemental Police Accident Report (PAR) can get corrected/ replaced/clarified by*
- d. *A Reconstruction Report*

# CRASH LEVEL FORM

2014 Fatality Analysis Reporting System

## CRASH LEVEL



U.S. Department of Transportation  
National Highway Traffic Safety  
Administration

CODED BY: \_\_\_\_\_ INPUT BY: \_\_\_\_\_  
DATE CODED: \_\_\_\_\_ DATE INPUT: \_\_\_\_\_  
STATE CASE NO.: \_\_\_\_\_

STATE NUMBER (GSA CODES) (C1)		CONSECUTIVE NUMBER (C2)		** Number of Forms Submitted for Persons Not in Motor Vehicles (C3)		** Number of Vehicle Forms Submitted (C4)		** Number of Motor Vehicle Occupant Forms Submitted (C5)
COUNTY (C6)		CITY (C7)		CRASH DATE (C8)		2 0 1 4	CRASH TIME (C9)	
Actual GSA Code Except for: 000-Not Applicable 997-Other		Actual GSA Code Except for: 998-Not Reported 999-Unknown		Actual Month and Day	Month	Day	Year	Valid Military Time: 9999-Unknown
<b>NATIONAL HIGHWAY SYSTEM (C10)</b> 0-This section IS NOT on the NHS 1-This section IS ON the NHS					<b>TYPE OF INTERSECTION (C21)</b>			
					01-Not an Intersection 02-Four-Way Intersection 03-T-Intersection 04-Y-Intersection 05-Traffic Circle	06-Roundabout 07-Five Point, or More 10-L-Intersection 98-Not Reported 99-Unknown		
<b>ROADWAY FUNCTION CLASS (C11)</b> <b>RURAL</b> 01-Principal Arterial - Interstate 02-Principal Arterial - Other 03-Minor Arterial 04-Major Collector 05-Minor Collector 06-Local Road or Street 09-Unknown Rural					01-On Roadway 02-On Shoulder 03-On Median 04-On Roadside 05-Outside Trafficway	07-In Parking Lane/Zone 08-Gore 10-Separator 11-Continuous Left-Turn Lane 98-Not Reported 99-Unknown		
<b>ROUTE SIGNING (C12)</b> 1-Interstate 2-U.S. Highway 3-State Highway 4-County Road					0-None 1-Construction	2-Maintenance 3-Utility	4-Work Zone, Type Unknown	
<b>TRAFFICWAY IDENTIFIER (C13)</b> Actual Posted Number, Assigned Number, or Common Name (If No Posted or Assigned Number) Except: Nine-Fill if Unknown					1-Daylight 2-Dark - Not Lighted 3-Dark - Lighted	6-Dark - Unknown Lighting 4-Dawn 5-Dusk	7-Other 8-Not Reported 9-Unknown	
(NOTE: MDE allows for up to 30 alphanumeric characters per line)					<b>LIGHT CONDITION (C24)</b>			
<b>MILEPOINT (C14)</b> Actual to Nearest .1 Mile Except: 0000.0-None      9999.8-Not Reported      9999.9-Unknown					<b>ATMOSPHERIC CONDITIONS (C25)</b>			
					00-No Additional Atmospheric Conditions 01-Clear 02-Cloudy 02-Rain	03-Sleet or Hail 12-Freezing Rain or Drizzle 04-Snow 11-Blowing Snow 05-Fog, Smog, Smoke	06-Severe Crosswinds 07-Blowing Sand, Soil, Dirt 08-Other 98-Not Reported 99-Unknown	
<b>GLOBAL POSITION (C15)</b> (See Instruction Manual)					<b>SCHOOL BUS RELATED (C26)</b>			
LATITUDE (See Instruction Manual)			LONGITUDE (See Instruction Manual)			0-No	1-Yes	
1 2 3 4 5 6 7 8 9 0			1 2 3 4 5 6 7 8 9 0					
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
<b>SPECIAL JURISDICTION (C16)</b>					<b>RAIL GRADE CROSSING IDENTIFIER (C27)</b> (See Instruction Manual)			
0-No Special Jurisdiction 1-National Park Service 2-Military 3-Indian Reservation					4-College/University Campus 5-Other Federal Properties 8-Other 9-Unknown			
<b>** CRASH EVENTS (C17)</b> (Element Table Completed in MDE)					<b>NOTIFICATION TIME EMS (C28)</b>			
					Military Time 8888-Not Applicable (Not Notified) Except: 9999-Unknown if Notified	9999-Unknown EMS Notification Time		
<b>** FIRST HARMFUL EVENT (C18)</b> (Auto-Fill from CRASH EVENTS - C 17)					<b>ARRIVAL TIME EMS (C29)</b>			
					Military Time 8888-Not Applicable (Not Notified) Except: 9997-Officially Canceled	9998-Unknown if Arrived 9999-Unknown EMS Scene Arrival Time		
<b>MANNER OF COLLISION (C19)</b>					<b>EMS TIME AT HOSPITAL (C30)</b>			
00-Not a Collision with a Motor Vehicle In-Transport 01-Front-to-Rear 02-Front-to-Front 06-Angle 07-Sideswipe-Same Direction 08-Sideswipe-Opposite Direction					09-Rear-to-Side 10-Rear-to-Rear 11-Other 98-Not Reported 99-Unknown	Military Time 8888-Not Applicable (Not Transported) Except: 9996-Terminated Transport 9997-Officially Canceled		9998-Unknown if Transported 9999-Unknown EMS Hospital Arrival Time
<b>RELATION TO JUNCTION (C20a/b)</b>					<b>RELATED FACTORS (C31)</b> (See Instruction Manual)			
(a)		Within Interchange Area? (C20a)				(b)		
(a)		0-No 1-Yes 8-Not Reported 9-Unknown	06-Railway Grade Crossing 07-Crossover Related 04-Driveway Access 08-Driveway Access Related 16-Shared-Use Path Crossing 17-Acceleration/Deceleration Lane 18-Through Roadway 19-Other Location Within Interchange Area 20-Entrance/Exit Ramp 98-Not Reported 99-Unknown					
(b)								
<b>Specific Location (C20b)</b>					<b>ADDITIONAL STATE INFORMATION</b> (See Instruction Manual)			
01-Non-Junction 02-Intersection 03-Intersection-Related 05-Entrance/Exit Ramp Related					1 2 3 4 5 6 7 8 9 0			
					1 2 3 4 5 6 7 8 9 0			

# VEHICLE LEVEL FORM

2014 Fatality Analysis Reporting System

## VEHICLE LEVEL



CODED BY: \_\_\_\_\_ INPUT BY: \_\_\_\_\_  
 DATE CODED: \_\_\_\_\_ DATE INPUT: \_\_\_\_\_  
 STATE CASE NO.: \_\_\_\_\_

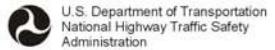
STATE NUMBER (V1) (GSA CODES)		CONSECUTIVE NUMBER (V2)		** VEHICLE NUMBER (V3) (Assigned by Analyst)		** NUMBER OF OCCUPANTS (V4) Actual Value if Total Known Except: 96- Ninety-Six or More 99-Unknown	
UNIT TYPE (V5) **				HAZARDOUS MATERIAL INVOLVEMENT/PLACARD (V20)			
1-Motor Vehicle In-Transport (Inside or Outside the Trafficway) 2-Motor Vehicle Not In-Transport Within the Trafficway 3-Motor Vehicle Not In-Transport Outside the Trafficway				4-Working Motor Vehicle (Highway Construction, Maintenance, Utility Only)			
0-No				Blank 1-No 2-Yes			
1-Yes				Blank 0-Not Applicable 1-No 2-Yes 8-Not Reported			
9-Unknown				Blanks 0000-Not Applicable Actual 4-digit number 8888-Not Reported 88-Not Reported			
HIT-AND-RUN (V6)				HM1 (Involvement) HM2 (Placard) HM3 (Identification Number) HMA (Class Number) HMS (Released)			
0-No				Blank 0-Not a Bus 01-School 04-Intercity			
1-Yes				05-Charter/Tour 06-Transit/Commuter 07-Shuttle			
9-Unknown				08-Modified for Personal/Private Use 98-Not Reported 99-Unknown			
REGISTRATION STATE (V7)				BUS USE (V21)			
GSA CODES Except: 00-Not Applicable 91-Not Reported 92-No Registration 93-Multiple State Registration 94-U.S. Government Tags (includes military)				00-No Special Use 01-Taxi 02-Vehicle Used for School Transport 03-Vehicle Used as Other Bus 04-Military			
95-Canada 96-Mexico 97-Other Foreign Country 98-Other Registration (includes Native American Indian Nations) 99-Unknown				05-Police 06-Ambulance 07-Fire Truck 13-Incident Response			
REGISTERED VEHICLE OWNER (V8)				08-Non-Transport Emergency Services Vehicle 99-Unknown			
0-Not Applicable, Vehicle Not Registered 1-Driver (in this crash) Registered Owner 2-Driver (in this crash) Not Registered Owner (Other Private Owner Listed) 3-Vehicle Registered as Business/Company/Government Vehicle 4-Vehicle Registered as Rental Vehicle 5-Vehicle Stolen (Reported by Police) 6-Driverless/Motor Vehicle Parked/Stopped Off Roadway 9-Unknown				EMERGENCY MOTOR VEHICLE USE (V23)			
VEHICLE MAKE (V9) (See Instruction Manual)				0-Not Applicable 2-Non-Emergency, Non-Transport 3-Non-Emergency Transport 4-Emergency Operation (Emergency Warning Equipment Not in Use)			
VEHICLE MODEL (V10) (See Instruction Manual)				5-Emergency Operation (Emergency Warning Equipment In Use) 6-Emergency Operation, Emergency Warning Equipment in Use Unknown 8-Not Reported 9-Unknown			
BODY TYPE (V11) (See Instruction Manual)				SPECIAL USE (V22)			
MODEL YEAR (V12)				00-No			
Actual Value Except: 9998-Not Reported 9999-Unknown				01-Charter/Tour 02-Vehicle Used for School Transport 03-Vehicle Used as Other Bus 04-Military			
VEHICLE IDENTIFICATION NUMBER (V13)				08-Modified for Personal/Private Use 98-Not Reported 99-Unknown			
Actual Value Except: 0-Fill if No VIN Required 8-Fill if Not Reported 9-Fill if Unknown				SPECIAL USE (V22)			
VEHICLE TRAILING (V14)				TRAVEL SPEED (V24)			
0-No Trailing Units 1-One Trailing Unit 2-Two Trailing Units 3-Three or More Trailing Units 4-Yes, Number of Trailing Units Unknown				00-No Special Use 000-Stopped Motor Vehicle In-Transport 001-151-Reported Speed up to 151 mph			
5-Vehicle Towing Another Motor Vehicle - Fixed Linkage 6-Vehicle Towing Another Motor Vehicle - Non-Fixed Linkage 9-Unknown				997-Greater than 151 mph 998-Not Reported 999-Unknown			
VEHICLE TRAILING (V14)				UNDERRIDE/OVERRIDE (V25)			
0-No Trailing Units 1-One Trailing Unit 2-Two Trailing Units 3-Three or More Trailing Units 4-Yes, Number of Trailing Units Unknown				0-No Underride or Override Noted UNDERRIDING A MOTOR VEHICLE IN-TRANSPORT 1-Underride (Compartment Intrusion) 2-Underride (No Compartment Intrusion) 3-Underride (Compartment Intrusion Unknown) 7-Overriding a Motor Vehicle In-Transport 8-Overriding a Motor Vehicle Not In-Transport 9-Unknown if Underride or Override			
5-Vehicle Towing Another Motor Vehicle - Fixed Linkage 6-Vehicle Towing Another Motor Vehicle - Non-Fixed Linkage 9-Unknown				UNDERRIDING A MOTOR VEHICLE NOT IN-TRANSPORT 4-Underride (Compartment Intrusion) 5-Underride (No Compartment Intrusion) 6-Underride (Compartment Intrusion Unknown)			
JACKKNIFE (V15)				TRAVEL SPEED (V24)			
0-Not an Articulated Vehicle 1-No				00-No Special Use 000-Stopped Motor Vehicle In-Transport 001-151-Reported Speed up to 151 mph			
2-Yes-First Event 3-Yes-Subsequent Event				997-Greater than 151 mph 998-Not Reported 999-Unknown			
MOTOR CARRIER (V16) IDENTIFICATION NUMBER (See Instruction Manual)				UNDERRIDE/OVERRIDE (V25)			
Issuing Authority				0-No Underride or Override Noted UNDERRIDING A MOTOR VEHICLE IN-TRANSPORT 1-Underride (Compartment Intrusion) 2-Underride (No Compartment Intrusion) 3-Underride (Compartment Intrusion Unknown) 7-Overriding a Motor Vehicle In-Transport 8-Overriding a Motor Vehicle Not In-Transport 9-Unknown if Underride or Override			
Identification Number				UNDERRIDING A MOTOR VEHICLE NOT IN-TRANSPORT 4-Underride (Compartment Intrusion) 5-Underride (No Compartment Intrusion) 6-Underride (Compartment Intrusion Unknown)			
GROSS VEHICLE WEIGHT RATING/ (V17) GROSS COMBINATION WEIGHT RATING				LOCATION OF ROLLOVER (V27)			
0-Not Applicable 1-10,000 lbs. or less				0-No Rollover 1-On Roadway 2-On Shoulder			
2-10,001 - 26,000 lbs. 3-26,001 lbs. or more				3-On Median/Separator 4-In Gore 5-On Roadside			
8-Not Reported 9-Unknown				6-Outside of Trafficway 7-In Parking Lane/Zone 9-Unknown			
VEHICLE CONFIGURATION (V18)				AREAS OF IMPACT - INITIAL CONTACT POINT / DAMAGED AREAS (V28)			
00-Not Applicable 10-Vehicle 10,000 pounds or less placarded for hazardous materials 01-Single-Unit Truck (Two Axles and GVWR more than 10,000 lbs) 02-Single-Unit Truck (Three or More Axles) 04-Truck Pulling Trailer(s) 05-Truck Tractor (Bobtail) 06-Truck Tractor/Semi-Trailer				Initial Contact Point 00-Non-Collision 01-12-Clock Points 13-Top 14-Undercarriage 18-Cargo/Vehicle Parts Set-in-Motion 19-Other Objects Set-in-Motion			
07-Truck Tractor/Double 08-Truck Tractor/Triple 19-Truck more than 10,000 lbs, cannot classify 20-Bus/Large Van (seats 9-15 occupants, including driver) 21-Bus (seats for more than 15 occupants, including driver) 99-Unknown				61-Left 62-Left Front Side 63-Left Back Side 81-Right 82-Right Front Side 83-Right Back Side 98-Not Reported 99-Unknown			
09-Pole - Trailer 10-Log 11-Intermodal Container Chassis 12-Vehicle Towing Another Motor Vehicle 22-Bus 96-No Cargo Body Type 97-Other 98-Unknown Cargo Body Type 99-Unknown				Damaged Areas (Select all that Apply) 01-12-Clock Values 13-Top 14-Undercarriage 15-No Damage 99-Damage Areas Unknown			
CARGO BODY TYPE (V19)				EXTENT OF DAMAGE (V29)			
00-Not Applicable 01-Van/Enclosed Box 02-Cargo Tank 03-Flatbed 04-Dump 05-Concrete Mixer 06-Auto Transporter 07-Garbage/Refuse 08-Grain/Chips/Gravel				0-No Damage 2-Minor Damage			
09-Pole - Trailer 10-Log 11-Intermodal Container Chassis 12-Vehicle Towing Another Motor Vehicle 22-Bus 96-No Cargo Body Type 97-Other 98-Unknown Cargo Body Type 99-Unknown				4-Functional Damage 6-Disabling Damage			
09-Pole - Trailer 10-Log 11-Intermodal Container Chassis 12-Vehicle Towing Another Motor Vehicle 22-Bus 96-No Cargo Body Type 97-Other 98-Unknown Cargo Body Type 99-Unknown				8-Not Reported 9-Unknown			
09-Pole - Trailer 10-Log 11-Intermodal Container Chassis 12-Vehicle Towing Another Motor Vehicle 22-Bus 96-No Cargo Body Type 97-Other 98-Unknown Cargo Body Type 99-Unknown				VEHICLE REMOVAL (V30)			
09-Pole - Trailer 10-Log 11-Intermodal Container Chassis 12-Vehicle Towing Another Motor Vehicle 22-Bus 96-No Cargo Body Type 97-Other 98-Unknown Cargo Body Type 99-Unknown				2-Towed Due to Disabling Damage 3-Towed Not Due to Disabling Damage 5-Not Towed			
09-Pole - Trailer 10-Log 11-Intermodal Container Chassis 12-Vehicle Towing Another Motor Vehicle 22-Bus 96-No Cargo Body Type 97-Other 98-Unknown Cargo Body Type 99-Unknown				8-Not Reported 9-Unknown			
SEQUENCE OF EVENTS (V31) (See Instruction Manual)				(Read-Only from CRASH EVENTS - C17)			
09-Pole - Trailer 10-Log 11-Intermodal Container Chassis 12-Vehicle Towing Another Motor Vehicle 22-Bus 96-No Cargo Body Type 97-Other 98-Unknown Cargo Body Type 99-Unknown				MOST HARMFUL EVENT (V32) (See Instruction Manual)			
09-Pole - Trailer 10-Log 11-Intermodal Container Chassis 12-Vehicle Towing Another Motor Vehicle 22-Bus 96-No Cargo Body Type 97-Other 98-Unknown Cargo Body Type 99-Unknown				RELATED FACTORS (V33) (See Instruction Manual)			
09-Pole - Trailer 10-Log 11-Intermodal Container Chassis 12-Vehicle Towing Another Motor Vehicle 22-Bus 96-No Cargo Body Type 97-Other 98-Unknown Cargo Body Type 99-Unknown				FIRE OCCURRENCE (V34) (Auto-filled by MDE)			
0-No or Not Reported				1-Yes			

# DRIVER LEVEL FORM

CODED BY: \_\_\_\_\_ INPUT BY: \_\_\_\_\_  
 DATE CODED: \_\_\_\_\_ DATE INPUT: \_\_\_\_\_  
 STATE CASE NO.: \_\_\_\_\_

## 2014 Fatality Analysis Reporting System

### DRIVER LEVEL



STATE NUMBER (D1) (GSA CODES)	CONSECUTIVE NUMBER (D2)	** VEHICLE NUMBER (D3) (Assigned by Analyst)	
** DRIVER PRESENCE (D4) 0-No Driver Present/Not Applicable 1-Yes 9-Unknown		PREVIOUS RECORDED CRASHES (D14) Actual Value Except: 00-None 98-Crashes Not Reported 99-Unknown	
DRIVER'S LICENSE STATE (D5)  GSA Codes Except: 93-Indian Nation 94-U.S. Government 95-Canada 96-Mexico		PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS (D15) Actual Value Except: 00-None 99-Unknown	
DRIVER'S ZIP CODE (D6)  Actual Value Except: 00000-Not a Resident of U.S. or Territories 99999-Unknown		PREVIOUS DWI CONVICTIONS (D16) Actual Value Except: 00-None 99-Unknown	
NON-CDL LICENSE TYPE/STATUS (D7)  LICENSE TYPE 0-Not Licensed 1-Full Driver License 2-Intermediate Driver License 7-Learner's Permit 8-Temporary License 9-Unknown License Type		PREVIOUS SPEEDING CONVICTIONS (D17) Actual Value Except: 00-None 99-Unknown	
COMMERCIAL MOTOR VEHICLE LICENSE STATUS (D8)  00-No Commercial Driver's License (CDL) 01-Suspended 02-Revoked 03-Expired 04-Canceled or Denied		PREVIOUS OTHER HARMFUL MV CONVICTIONS (D18) Actual Value Except: 00-None 99-Unknown	
COMPLIANCE WITH CDL ENDORSEMENTS (D9)  0-No Endorsement(s) Required for this Vehicle 1-Endorsement(s) Required, complied with 2-Endorsement(s) Required, not complied with 3-Endorsement(s) Required, compliance unknown 9-Unknown, if required		DATE OF FIRST CRASH, SUSPENSION OR CONVICTION (D19) Actual Value Except:  MONTH 00-No Record 99-Unknown	
LICENSE COMPLIANCE WITH CLASS OF VEHICLE (D10)  0-Not Licensed 1-No License Required for This Class Vehicle 2-No Valid License for This Class Vehicle 3-Valid License for This Class Vehicle 8-Unknown if Commercial Driver's License (CDL) and/or CDL Endorsements Required for This Vehicle 9-Unknown		YEAR 0000-No Record 9999-Unknown  Month      Year	
COMPLIANCE WITH LICENSE RESTRICTIONS (D11)  0-No Restrictions or Not Applicable 1-Restrictions Complied With 2-Restrictions Not Complied With 3-Restrictions, Compliance Unknown 9-Unknown		DATE OF LAST CRASH, SUSPENSION OR CONVICTION (D20) Actual Value Except:  MONTH 00-No Record 99-Unknown	
DRIVER HEIGHT (D12)  FEET 0-See Inches 2-8-Actual Feet 9-Unknown		YEAR 0000-No Record 9999-Unknown  Month      Year	
DRIVER WEIGHT (D13)  040-700 lbs. 998-Other 999-Unknown		VIOLATIONS CHARGED (D21)  (SELECT ALL THAT APPLY) (See Instruction Manual)	
		SPEEDING RELATED (D22)  0-No 2-Yes, Racing 3-Yes, Exceeded Speed Limit 4-Yes, Too Fast for Conditions 5-Yes, Specifics Unknown 9-Unknown	
		CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23)  (SELECT ALL THAT APPLY)	
		 00-None/Apparently Normal 01-Ill, Blackout 02-Asleep or Fatigued 03-Walking with a Cane or Crutches, etc 04-Paraplegic or Restricted to a Wheelchair 05-Impaired Due to Previous Injury 06-Deaf	 07-Blind 08-Emotional(depressed, angry, disturbed, etc.) 09-Under the Influence of Alcohol, Drugs or Medication 10-Physical Impairment-No Details 96-Other Physical Impairment 98-Not Reported 99-Unknown if Impaired
		RELATED FACTORS (D24)  (See Instruction Manual)	
COMMENTS:			

# PRECRASH LEVEL (VEHICLE/DRIVER) FORM

CODED BY: \_\_\_\_\_

INPUT BY: \_\_\_\_\_

DATE CODED: \_\_\_\_\_

DATE INPUT: \_\_\_\_\_

STATE CASE NO.: \_\_\_\_\_

2014 Fatality Analysis Reporting System

**PRECRASH LEVEL (VEHICLE/DRIVER)**
  
U.S. Department of Transportation  
National Highway Traffic Safety  
Administration

STATE NUMBER (PC1) (GSA CODES)		CONSECUTIVE NUMBER (PC2)		** VEHICLE NUMBER (PC3) (Assigned by Analyst)																																																																							
<b>CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE (PC4)</b> <i>(SELECT ALL THAT APPLY)</i>																																																																											
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">00-None</td> <td style="width: 15%;">10-Wipers</td> <td style="width: 15%;">11-Wheels</td> <td colspan="4" style="width: 50%;"></td> </tr> <tr> <td>01-Tires</td> <td>12-Mirrors</td> <td></td> <td colspan="4"></td> </tr> <tr> <td>02-Brake System</td> <td>13-Windows/Windshield</td> <td>99-Unknown</td> <td colspan="4"></td> </tr> <tr> <td>03-Steering</td> <td>14-Body/Doors</td> <td></td> <td colspan="4"></td> </tr> <tr> <td>04-Suspension</td> <td>15-Truck Coupling/Trailer Hitch/Safety Chains</td> <td></td> <td colspan="4"></td> </tr> <tr> <td>05-Power Train</td> <td>16-Safety Systems</td> <td></td> <td colspan="4"></td> </tr> <tr> <td>06-Exhaust System</td> <td>17-Vehicle Contributing Factors-No Details</td> <td></td> <td colspan="4"></td> </tr> <tr> <td>07-Head Lights</td> <td>97-Other</td> <td></td> <td colspan="4"></td> </tr> <tr> <td>08-Signal Lights</td> <td>98-Not Reported</td> <td></td> <td colspan="4"></td> </tr> <tr> <td>09-Other Lights</td> <td></td> <td></td> <td colspan="4"></td> </tr> </table>						00-None	10-Wipers	11-Wheels					01-Tires	12-Mirrors						02-Brake System	13-Windows/Windshield	99-Unknown					03-Steering	14-Body/Doors						04-Suspension	15-Truck Coupling/Trailer Hitch/Safety Chains						05-Power Train	16-Safety Systems						06-Exhaust System	17-Vehicle Contributing Factors-No Details						07-Head Lights	97-Other						08-Signal Lights	98-Not Reported						09-Other Lights						
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<b>TRAFFICWAY DESCRIPTION (PC5)</b>																																																																											
0-Non-Trafficway or Driveway Access		4-One Way Trafficway																																																																									
1-Two-Way, Not Divided		6-Entrance/Exit Ramp																																																																									
2-Two-Way, Divided, Unprotected (Painted > 4 Feet) Median		8-Not Reported																																																																									
3-Two-Way, Divided, Positive Median Barrier		9-Unknown																																																																									
5-Two-Way, Not Divided with a Continuous Left-Turn Lane																																																																											
<b>TOTAL LANES IN ROADWAY (PC6)</b>																																																																											
Actual Value Except:																																																																											
0-Non-Trafficway or Driveway Access		8-Not Reported																																																																									
7-Seven or More Lanes		9-Unknown																																																																									
<b>SPEED LIMIT (PC7)</b>																																																																											
Actual Speed Limit Except (in 5mph increments):																																																																											
00-No Statutory Limit/Non-Trafficway or Driveway Access		98-Not Reported																																																																									
		99-Unknown																																																																									
<b>ROADWAY ALIGNMENT (PC8)</b>																																																																											
0-Non-Trafficway or Driveway Access		2-Curve-Right	8-Not Reported																																																																								
		3-Curve-Left	9-Unknown																																																																								
1-Straight		4-Curve Unknown Direction																																																																									
<b>ROADWAY GRADE (PC9)</b>																																																																											
0 - Non-Trafficway or Driveway Access		3-Hillcrest	2-Grade, Unknown	8-Not Reported																																																																							
		5-Uphill	Slope																																																																								
1-Level		6-Downhill	4-Sag (Bottom)																																																																								
<b>ROADWAY SURFACE TYPE (PC10)</b>																																																																											
0-Non-Trafficway or Driveway Access		3-Brick or Block	7-Other																																																																								
1-Concrete		4-Slag, Gravel or Stone	8-Not Reported																																																																								
2-Blacktop, Bituminous or Asphalt		5-Dirt	9-Unknown																																																																								
<b>ROADWAY SURFACE CONDITIONS (PC11)</b>																																																																											
00-Non-Trafficway or Driveway Access		10-Slush	07-Oil																																																																								
		04-Ice/Frost	08-Other																																																																								
01-Dry		05-Sand	98-Not Reported																																																																								
02-Wet		06-Water (standing or moving)	99-Unknown																																																																								
03-Snow		11-Mud, Dirt or Gravel																																																																									
<b>TRAFFIC CONTROL DEVICE/ DEVICE FUNCTIONING (PC12/PC13)</b>																																																																											
DEVICE: <i>(See Instruction Manual)</i>			Device PC12	Functioning PC13																																																																							
FUNCTIONING:																																																																											
0-No Controls																																																																											
1-Device Not Functioning																																																																											
2-Device Functioning - Functioning Improperly																																																																											
3-Device Functioning Properly																																																																											
8-Not Reported																																																																											
9-Unknown																																																																											
<b>DRIVER'S VISION OBSCURED BY (PC14)</b> <i>(SELECT ALL THAT APPLY)</i>																																																																											
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# PERSON LEVEL (MV OCCUPANT) FORM

CODED BY: \_\_\_\_\_ INPUT BY: \_\_\_\_\_  
 DATE CODED: \_\_\_\_\_ DATE INPUT: \_\_\_\_\_  
 STATE CASE NO.: \_\_\_\_\_

2014 Fatality Analysis Reporting System

## PERSON LEVEL (MV OCCUPANT)



STATE NUMBER (P1) (GSA CODES)		CONSECUTIVE NUMBER (P2)			** VEHICLE NUMBER (P3) (Assigned by Analyst)		** PERSON NUMBER (P4)	
AGE (P5)				POLICE REPORTED ALCOHOL INVOLVEMENT (P16)				
Actual Value Except: 000-Less than One Year 001-120-Actual Age*		998-Not Reported 999-Unknown		0-No (Alcohol Not Involved) 1-Yes (Alcohol Involved)			8-Not Reported 9-Unknown (Police Reported)	
SEX (P6) 1-Male 2-Female		8-Not Reported 9-Unknown						
** PERSON TYPE (P7)				METHOD OF ALCOHOL DETERMINATION (By Police) (P17)				
01-Driver of a Motor Vehicle In-Transport 02-Passenger of a Motor Vehicle In-Transport 03-Occupant of a Motor Vehicle Not In-Transport 09-Unknown Occupant Type in a Motor Vehicle In-Transport				1-Evidential Test (Breath, Blood, Urine) 2-Preliminary Breath Test (PBT) 3-Behavioral 4-Passive Alcohol Sensor (PAS)				
INJURY SEVERITY (P8)				5-Observed 8-Other Method (e.g., Saliva test) 9-Not Reported				
0-No Apparent Injury (O) 1-Possible Injury (C) 2-Suspected Minor Injury (B) 3-Suspected Serious Injury (A)				ALCOHOL TEST (P18)				
4-Fatal Injury (K) 5-Injured, Severity Unknown 6-Died Prior to Crash 9-Unknown				Status	Type	Result		
SEATING POSITION (P9)				Status: 0-Test Not Given 8-Not Reported      1-Test Refused 9-Unknown if Tested      2-Test Given				
Left    Middle    Right    Other    Unknown								
Front Row Seats    11    12    13    18    19 2nd Row Seats    21    22    23    28    29 3rd Row Seats    31    32    33    38    39 4th Row Seats    41    42    43    48    49 5th Row Seats    51    51    51    51				Type: 00-Test Not Given    10-Preliminary    05-Blood Plasma/08-Other Test Type 01-Blood    Breath Test (PBT)    Serum    98-Unknown Test Type 02-Breathalyzer    03-Urine    06-Blood Clot    95-Not Reported (BAC)    04-Vitreous    07-Liver    99-Unknown if Tested				
50-Sleeper Section of Cab (truck) 51-Other Passenger in Enclosed Passenger or Cargo Area 52-Other Passenger in Unenclosed Passenger or Cargo Area				Result: Actual Value (Decimal Implied Before First Digit (0.xx)) Except: 00-93-Actual Value    97-AC Test Performed, Results    95-Not Reported 94-94 or Greater    Unknown    99-Unknown if Tested 96-Test Not Given    98-Positive Reading with No Actual Value				
53-Other Passenger in Passenger or Cargo Area, Unknown Whether or Not Enclosed 54-Trailing Unit 55-Riding on Exterior of Vehicle 98-Not Reported 99-Unknown								
RESTRAINT SYSTEM/ HELMET USE (P10)				POLICE REPORTED DRUG INVOLVEMENT (P19)				
00-Not Applicable 07-None Used 01-Shoulder Belt Only Used 02-Lap Belt Only Used 03-Shoulder and Lap Belt Used 04-Child Restraint - Type Unknown 10 Child Restraint - Forward Facing 11-Child Restraint - Rear Facing 12-Booster Seat 08-Restraint Used - Type Unknown				0-No (Drugs Not Involved) 1-Yes (Drugs Involved)				
05-DOT-Compliant Motorcycle Helmet 16-Helmet, Other than DOT-Compliant Motorcycle Helmet 19-Helmet, Unknown if DOT-Compliant 17-No Helmet 29-Unknown if Helmet Worn 97-Other 98-Not Reported 99-Unknown				8-Not Reported 9-Unknown (Police Reported)				
ANY INDICATION OF MIS-USE OF RESTRAINT SYSTEM / HELMET USE (P11)				METHOD OF DRUG DETERMINATION (By Police) (P20)				
0-No      1-Yes				1-Evidential Test (Blood, Urine) 2-Drug Recognition Technician (DRT)				
				3-Behavioral    8-Not Reported 7-Other				
AIR BAG DEPLOYED (P12)				DRUG TEST (P21)				
00-Not Applicable 01-Deployed-Front 02-Deployed-Side (door, seatback) 03-Deployed-Curtain (roof) 07-Deployed-Other (knee, airbelt, etc) 08-Deployed-Combination				Status: 0-Test Not Given 8 - Not Reported      1-Test Refused 9-Unknown if Tested      2-Test Given				
09-Deployed-Unknown Location 20-Not Deployed 28-Switched Off 98-Not Reported 99-Deployment Unknown				Type: 0-Test Not Given    3-Both: Blood & Urine Tests 1-Blood    7-Unknown Test Type    6-Not Reported 2-Urine    8-Other Test Type    9-Unknown if Tested				
				Result: 000-Test Not Given    800-895-Anabolic Steroid* 001-Tested, No Drugs Found/Negative    900-995-Inhalant* 100-295-Narcotic*    996-Other Drug 300-395-Depressant*    997-Tested For Drugs, Results Unknown 400-495-Stimulant*    998-Tested For Drugs, Drugs Found, 500-595-Hallucinogen*    Type Unknown 600-695-Cannabinoid*    095-Not Reported 700-795-Phencyclidine(PCP)*    999-Unknown if Tested				
				*See Instruction Manual for specific drug lists				
				TRANSPORTED TO FIRST MEDICAL FACILITY BY (P22)				
				0-Not Transported      4-Transported Unknown Source 1-EMS Air    6-Other 5-EMS Ground    8-Not Reported 3-EMS Unknown Mode    9-Unknown 2-Law Enforcement				
				DIED AT SCENE/EN ROUTE (P23)				
				0-Not Applicable 7-Died at Scene      8-Died En Route 9-Unknown				
				DEATH DATE (P24)				
				MONTH/DAY    YEAR 88-Not Applicable    8888-Not Applicable (Non-fatal)    (Non-fatal) 99-Unknown    9999-Unknown    Month    Day    Year				
				DEATH TIME (P25)				
				Military Time Except: 8888-Not Applicable (Non-fatal) 9999-Unknown (See Instruction Manual concerning known hr., but unknown min.)				
				RELATED FACTORS (P26) (See Instruction Manual)				

**PERSON LEVEL (NOT A MV OCCUPANT) FORM**

CODED BY: \_\_\_\_\_ INPUT BY: \_\_\_\_\_  
DATE CODED: \_\_\_\_\_ DATE INPUT: \_\_\_\_\_  
STATE CASE NO.: \_\_\_\_\_

2014 Fatality Analysis Reporting System  
**PERSON LEVEL (NOT A MV OCCUPANT)**



U.S. Department of Transportation  
National Highway Traffic Safety  
Administration

STATE NUMBER (NM1) (GSA CODES)		CONSECUTIVE NUMBER (NM2)		** PERSON NUMBER (NM3)				
NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST (NM4)		CONDITION (IMPAIRMENT) AT TIME OF CRASH (NM14) (SELECT ALL THAT APPLY)						
Assigned Vehicle Number, Except: 999-Unknown		00-None/Apparently Normal 01-III, Blackout 02-Asleep or Fatigued 03-Walking with a Cane or Crutches, etc. 04-Paraplegic or Restricted to Wheelchair 05-Impaired Due to Previous Injury 06-Deaf		07-Blind 08-Emotional(depressed, angry, disturbed, etc.) 09-Under the Influence of Alcohol, Drugs or Medication 10-Physical Impairment-No Details 96-Other Physical Impairment 98-Not Reported 99-Unknown if Impaired				
Actual Value Except: 000-Less than One Year 001-120-Actual Age*	998-Not Reported 999-Unknown							
AGE (NM5)		SEX (NM6)		POLICE REPORTED ALCOHOL INVOLVEMENT (NM15)				
1-Male 2-Female	8-Not Reported 9-Unknown	0-No (Alcohol Not Involved) 1-Yes (Alcohol Involved)	8-Not Reported 9-Unknown (Police Reported)					
** PERSON TYPE (NM7)		METHOD OF ALCOHOL DETERMINATION (By Police) (NM16)						
04-Occupant of a Non-Motor Vehicle Transport Device 05-Pedestrian 06-Bicyclist 07-Other Cyclist	08-Person on Personal Conveyance 10-Persons In/On Buildings 19-Unknown Type of Non-Motorist	1-Evidential Test (Breath, Blood, Urine) 2-Preliminary Breath Test (PBT) 3-Behavioral 4-Passive Alcohol Sensor (PAS)	5-Observed 8-Other Method (e.g., Saliva test) 9-Not Reported					
INJURY SEVERITY (NM8)		ALCOHOL TEST (NM17)						
0-No Apparent Injury (O) 1-Possible Injury (C) 2-Suspected Minor Injury (B) 3-Suspected Serious Injury (A)	4-Fatal Injury (K) 5-Injured, Severity Unknown 6-Died Prior to Crash 9-Unknown	Status	Type	Result				
PEDESTRIAN/BIKE TYPING (NM9) (Element Completed in MDE)		Status: 0-Test Not Given 8-Not Reported 9-Unknown if Tested						
NON-MOTORIST LOCATION AT TIME OF CRASH (NM10) (See Instruction Manual)		Type: 00-Test Not Given 01-Blood 02-Breathalyzer (BAC) 03-Urine 04-Vitreous		1-Test Refused 10-Preliminary Breath Test (PBT) 05-Blood Plasma/08-Other Test Type Serum 06-Blood Clot 07-Liver 99-Unknown if Tested				
NON-MOTORIST ACTION/ CIRCUMSTANCES (NM11) (SELECT ALL THAT APPLY)		Result: Actual Value (Decimal Implied Before First Digit (0.xx)) Except: 00-93-Actual Value 97-AC Test Performed, Results 94-94 or Greater 96-Test Not Given 98-Positive Reading with No Actual Value		08-Other Test Type 95-Not Reported 99-Unknown if Tested				
NON-MOTORIST CONTRIBUTING CIRCUMSTANCES (NM12) (SELECT ALL THAT APPLY)		POLICE REPORTED DRUG INVOLVEMENT (NM18)						
00-None Noted 01-Dart-Out 11-Dash 02-Failure to Yield Right-Of-Way 03-Failure to Obey Traffic Signs, Signals or Officer 04-In Roadway Improperly (Standing, Lying, Working, Playing, etc.) 05-Entering/Exiting Parked or Stopped Vehicle 06-Inattentive (Talking, Eating, etc.) 07-Improper Turn/Merge 08-Improper Passing 09-Wrong-Way Riding or Walking 10-Riding on Wrong Side of Road 12-Improper Crossing of Roadway or Intersection (Jaywalking)	09-Adjacent to Roadway (e.g. Shoulder, Median) 10-Working in Trafficway 11-Entering/Exiting Parked or Stopped Vehicle 12-Disabled Vehicle Related 14-Other (Specify): 98-Not Reported 99-Unknown	0-No (Drugs Not Involved) 1-Yes (Drugs Involved)		8-Not Reported 9-Unknown (Police Reported)				
NON-MOTORIST SAFETY EQUIPMENT (NM13) (SELECT ALL THAT APPLY)		METHOD OF DRUG DETERMINATION (By Police) (NM19)						
1-None Used 2-Helmet 3-Reflective Equipment/Clothing (jacket, backpack, etc) 4-Protective Pads Used (elbows, knees, shins, etc.)	13-Failing to Have Lights on When Required 14-Operating Without Required Equipment 15-Improper or Erratic Lane Changing 16-Fail to Keep in Proper Lane or Running off Road 17-Making Improper Entry to or Exit from Trafficway 18-Operating in Other Erratic, Reckless, Careless or Negligent Manner 19-Not Visible (Dark Clothing, No Lighting, etc.) 20-Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle 21-Other (Specify): 99-Unknown	1-Evidential Test (Blood, Urine) 2-Drug Recognition Technician (DRT)		3-Behavioral 7-Other				
NON-MOTORIST SAFETY EQUIPMENT (NM13) (SELECT ALL THAT APPLY)		DRUG TEST (NM20)						
1-None Used 2-Helmet 3-Reflective Equipment/Clothing (jacket, backpack, etc) 4-Protective Pads Used (elbows, knees, shins, etc.)	13-Failing to Have Lights on When Required 14-Operating Without Required Equipment 15-Improper or Erratic Lane Changing 16-Fail to Keep in Proper Lane or Running off Road 17-Making Improper Entry to or Exit from Trafficway 18-Operating in Other Erratic, Reckless, Careless or Negligent Manner 19-Not Visible (Dark Clothing, No Lighting, etc.) 20-Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle 21-Other (Specify): 99-Unknown	Status:	Type 1	Result 1	Type 2	Result 2	Type 3	Result 3
1-None Used 2-Helmet 3-Reflective Equipment/Clothing (jacket, backpack, etc) 4-Protective Pads Used (elbows, knees, shins, etc.)	13-Failing to Have Lights on When Required 14-Operating Without Required Equipment 15-Improper or Erratic Lane Changing 16-Fail to Keep in Proper Lane or Running off Road 17-Making Improper Entry to or Exit from Trafficway 18-Operating in Other Erratic, Reckless, Careless or Negligent Manner 19-Not Visible (Dark Clothing, No Lighting, etc.) 20-Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle 21-Other (Specify): 99-Unknown	Type:	0-Test Not Given 1-Test Refused 8-Not Reported 9-Unknown if Tested	3-Both: Blood & Urine Tests 7-Unknown Test Type 8-Other Test Type	6-Not Reported 9-Unknown if Tested			
1-None Used 2-Helmet 3-Reflective Equipment/Clothing (jacket, backpack, etc) 4-Protective Pads Used (elbows, knees, shins, etc.)	13-Failing to Have Lights on When Required 14-Operating Without Required Equipment 15-Improper or Erratic Lane Changing 16-Fail to Keep in Proper Lane or Running off Road 17-Making Improper Entry to or Exit from Trafficway 18-Operating in Other Erratic, Reckless, Careless or Negligent Manner 19-Not Visible (Dark Clothing, No Lighting, etc.) 20-Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle 21-Other (Specify): 99-Unknown	Result:	000-Test Not Given 001-Tested, No Drugs Found/Negative 100-295-Narcotic* 300-395-Depressant* 400-495-Stimulant* 500-595-Hallucinogen* 600-695-Cannabinoid* 700-795-Phencyclidine (PCP)*	800-895-Anabolic Steroid* 900-995-Inhalant* 996-Other Drug 997-Tested For Drugs, Results Unknown 998-Tested For Drugs, Drugs Found, Type Unknown 995-Not Reported 999-Unknown if Tested				
1-None Used 2-Helmet 3-Reflective Equipment/Clothing (jacket, backpack, etc) 4-Protective Pads Used (elbows, knees, shins, etc.)	13-Failing to Have Lights on When Required 14-Operating Without Required Equipment 15-Improper or Erratic Lane Changing 16-Fail to Keep in Proper Lane or Running off Road 17-Making Improper Entry to or Exit from Trafficway 18-Operating in Other Erratic, Reckless, Careless or Negligent Manner 19-Not Visible (Dark Clothing, No Lighting, etc.) 20-Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle 21-Other (Specify): 99-Unknown	*See Instruction Manual for specific drug lists						
NON-MOTORIST SAFETY EQUIPMENT (NM13) (SELECT ALL THAT APPLY)		TRANSPORTED TO FIRST MEDICAL FACILITY BY (NM21)						
1-None Used 2-Helmet 3-Reflective Equipment/Clothing (jacket, backpack, etc) 4-Protective Pads Used (elbows, knees, shins, etc.)	13-Failing to Have Lights on When Required 14-Operating Without Required Equipment 15-Improper or Erratic Lane Changing 16-Fail to Keep in Proper Lane or Running off Road 17-Making Improper Entry to or Exit from Trafficway 18-Operating in Other Erratic, Reckless, Careless or Negligent Manner 19-Not Visible (Dark Clothing, No Lighting, etc.) 20-Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle 21-Other (Specify): 99-Unknown	0-Not Transported 1-EMS Air 5-EMS Ground 3-EMS Unknown Mode 2-Law Enforcement	4-Transported Unknown Source 6-Other 8-Not Reported 9-Unknown					
NON-MOTORIST SAFETY EQUIPMENT (NM13) (SELECT ALL THAT APPLY)		DIED AT SCENE/EN ROUTE (NM22)						
1-None Used 2-Helmet 3-Reflective Equipment/Clothing (jacket, backpack, etc) 4-Protective Pads Used (elbows, knees, shins, etc.)	13-Failing to Have Lights on When Required 14-Operating Without Required Equipment 15-Improper or Erratic Lane Changing 16-Fail to Keep in Proper Lane or Running off Road 17-Making Improper Entry to or Exit from Trafficway 18-Operating in Other Erratic, Reckless, Careless or Negligent Manner 19-Not Visible (Dark Clothing, No Lighting, etc.) 20-Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle 21-Other (Specify): 99-Unknown	0-Not Applicable 7-Died at Scene	8-Died En Route 9-Unknown					
NON-MOTORIST SAFETY EQUIPMENT (NM13) (SELECT ALL THAT APPLY)		DEATH DATE (NM23)						
1-None Used 2-Helmet 3-Reflective Equipment/Clothing (jacket, backpack, etc) 4-Protective Pads Used (elbows, knees, shins, etc.)	13-Failing to Have Lights on When Required 14-Operating Without Required Equipment 15-Improper or Erratic Lane Changing 16-Fail to Keep in Proper Lane or Running off Road 17-Making Improper Entry to or Exit from Trafficway 18-Operating in Other Erratic, Reckless, Careless or Negligent Manner 19-Not Visible (Dark Clothing, No Lighting, etc.) 20-Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle 21-Other (Specify): 99-Unknown	MONTH/DAY	YEAR	Month	Day	Year		
1-None Used 2-Helmet 3-Reflective Equipment/Clothing (jacket, backpack, etc) 4-Protective Pads Used (elbows, knees, shins, etc.)	13-Failing to Have Lights on When Required 14-Operating Without Required Equipment 15-Improper or Erratic Lane Changing 16-Fail to Keep in Proper Lane or Running off Road 17-Making Improper Entry to or Exit from Trafficway 18-Operating in Other Erratic, Reckless, Careless or Negligent Manner 19-Not Visible (Dark Clothing, No Lighting, etc.) 20-Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle 21-Other (Specify): 99-Unknown	88-Not Applicable (Non-fatal) 99-Unknown	8888-Not Applicable (Non-fatal) 9999-Unknown					
NON-MOTORIST SAFETY EQUIPMENT (NM13) (SELECT ALL THAT APPLY)		DEATH TIME (NM24)						
1-None Used 2-Helmet 3-Reflective Equipment/Clothing (jacket, backpack, etc) 4-Protective Pads Used (elbows, knees, shins, etc.)	13-Failing to Have Lights on When Required 14-Operating Without Required Equipment 15-Improper or Erratic Lane Changing 16-Fail to Keep in Proper Lane or Running off Road 17-Making Improper Entry to or Exit from Trafficway 18-Operating in Other Erratic, Reckless, Careless or Negligent Manner 19-Not Visible (Dark Clothing, No Lighting, etc.) 20-Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle 21-Other (Specify): 99-Unknown	Military Time Except: 8888-Not Applicable (Non-fatal) (See Instruction Manual concerning known hr., but unknown min.)						
NON-MOTORIST SAFETY EQUIPMENT (NM13) (SELECT ALL THAT APPLY)		RELATED FACTORS (NM25) (See Instruction Manual)						

## 200. FORM CODING INSTRUCTIONS

### 201. GENERAL INSTRUCTIONS

- .1 Codes
  - .11 All codes are numeric except TRAFFICWAY IDENTIFIER, ADDITIONAL STATE INFORMATION, RAIL GRADE CROSSING IDENTIFIER, VEHICLE IDENTIFICATION NUMBER and MOTOR CARRIER IDENTIFICATION NUMBER.
  - .12 All codes are on the forms except: GLOBAL POSITION, CRASH EVENTS, FIRST HARMFUL EVENT, RAIL GRADE CROSSING IDENTIFIER, RELATED FACTORS, VEHICLE MAKE, VEHICLE MODEL, BODY TYPE, MOTOR CARRIER IDENTIFICATION NUMBER, SEQUENCE OF EVENTS, MOST HARMFUL EVENT, VIOLATIONS CHARGED, TRAFFIC CONTROL DEVICE, CRITICAL EVENT – PRECRASH (EVENT), CRASH TYPE, NON-MOTORIST LOCATION AT TIME OF CRASH, PEDESTRIAN/BIKE TYPING, DEATH CERTIFICATE NUMBER, FATAL INJURY AT WORK and RACE/HISPANIC ORIGIN. See the appropriate data element pages for these codes.
  - .13 The code for attribute **Unknown** is always nine. **Unknown** should only be used when all sources for obtaining information on an element have been searched and the information is missing or stated unknown. In an element that includes the attribute **Not Reported**, **Unknown** is only used for stated unknowns.
  - .14 The code for attribute **Not Applicable** or its equivalent is always zero(s), except for data elements C28-C30 where **Not Applicable (Not Notified)** is 8888, P13 where **Not Applicable** is 8, P24/NM23 where **Not Applicable (non-fatal)** is 88888888 and P25/NM24 where **Not Applicable (non-fatal)** is 8888, SP2 where **Not Applicable (not a fatality)** is 8.
  - .15 The code for attribute **None** is always zero except for Alcohol Test Result.
- .2 Coding Forms

- .21 Blanks are used only in fields to be later updated with four exceptions:
  - .211 If DRIVER PRESENCE is coded “0” or “9” all other driver information except RELATED FACTORS-DRIVER LEVEL must be blank.
  - .212 If VIN is less than seventeen characters, do not zero-fill, leave remaining characters blank. If a State is not allowed to code the entire VIN, code the partial VIN and zero-fill the characters that cannot be completed.
  - .213 If TRAFFICWAY IDENTIFIER is less than 30 characters, do not zero-fill or 9-fill. Leave remaining characters blank. The second TRAFFICWAY IDENTIFIER field is also left blank for non-junction crashes.
  - .214 If MOTOR CARRIER IDENTIFICATION NUMBER is less than 9 characters, do not zero-fill or 9-fill. Leave remaining characters blank.
- .22 All codes are right-justified except VIN, TRAFFICWAY IDENTIFIER and MOTOR CARRIER IDENTIFICATION NUMBER.
- .3 Vehicle, Driver, Precrash and both Person Level Forms. These forms are automatically numbered by the system.
  - .31 Vehicles are numbered consecutively beginning with “001.”
  - .32 For each vehicle, persons are numbered consecutively beginning with “001.” Order is not important. The driver does not have to be “001.”
  - .33 Persons not in motor vehicles are numbered consecutively beginning with “01.” Order is not important.
- .4 Miscellaneous
  - .41 The number of changes per case is not limited.
  - .42 Request of other States for information should always follow the format of the MDE systems Out-Of-State Data Request whether the MDE System itself or the mail is used.
  - .43 Refer all coding questions through the CODING ASSISTANCE PROGRAM.
  - .44 Copies of all cases or other actions submitted must be retained for 3 years after the data collection year.
  - .45 If a State will not allow transmittal of complete VIN, send a memorandum to the COTR informing him of this fact.

- .5 Special Case - Coding Fatal Traffic Crashes for which there is only a death certificate.
- .51 Be sure the death occurred within thirty (30) days of the crash. If you don't know, do not submit the case. If it occurred after 30 days, do not submit.
- .52 For the cases you do submit, you must complete Forms HS-214, HS-214A, HS-214B, HS-214C, HS-214D, HS-214E unless you have been granted an exemption.
- .6 Code the required elements as follows:  
  
The following elements must be coded. If any of these elements are left blank or if an edit check is violated which involves the coding of one of these elements, you will not have a usable FARS case.

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### **Crash Level (Form HS-214)**

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Crash Date -	Appropriate Day, Month and Year
Crash Time -	Appropriate hour and minute if known, 9999 if not known
Number of Forms	
Submitted for Persons	
Not In Motor Vehicles -	00-99
Number of Vehicle Forms	
Submitted -	001-999
Number of Motor	
Vehicle Occupant	000-999
Forms Submitted -	
Crash Events -	Table completed in MDE
First Harmful Event -	Appropriate attribute derived from table, 99 if not known

---

### **Vehicle Level (Form HS-214A)**

---

Vehicle Number -	001-999
Number of Occupants -	01-96 if known, 99 if unknown
Unit Type -	1-4

---

### **Driver Level (Forms HS-214B)**

---

Vehicle Number -	001-999
Driver Presence -	Appropriate attribute if known, 9 if unknown

---

### Precrash Form (Form HS-214C)

---

Vehicle Number -	001-999 if occupant
Crash Type -	01-99

---

### Person Level (Motor Vehicle Occupant) (Form HS-214D)

---

Vehicle Number -	001-999 if occupant
Person Number -	001-999
Person Type -	01-03, 09 for occupants

---

### Person Level (Not a Motor Vehicle Occupant) (Form HS-214E)

---

Person Number -	001-999
Number of Motor Vehicle	
Striking Non-Motorist -	001-999
Person Type -	04-08, 10, 19 for non-occupants

.61      Code all other elements with the proper attribute if information is known. If no information is known, code the items **Unknown** or **Not Reported**. There are three exceptions to this, Rollover, Emergency Motor Vehicle Use and Fire Occurrence should all use the attribute "0" (**No Rollover**, **Not Applicable** and **No or Not Reported**, respectively).

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## 202. DELETION INSTRUCTIONS

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See FARS Microcomputer Data Entry Manual for instructions on how to delete a case.

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## 203. REQUEST FOR CASE LISTING INSTRUCTIONS

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See FARS Microcomputer Data Entry Manual for instructions on how to list a case.

## **300. DATA ELEMENT CODING INSTRUCTIONS**

### **301. SECTION ORGANIZATION**

- .1 For each element on the FARS forms, an instruction page follows in the order of the elements on the forms. In an element that is duplicated on more than one form, the instructions are provided in the first occurrence of the element with reference to the second occurrence.
- .11 The letters in the upper right hand corner refer to the forms:
  - 'C' – Crash Level Form
  - 'V' – Vehicle Level Form
  - 'D' – Driver Level Form
  - 'PC' – Precrash Level (Vehicle/Driver) Form
  - 'P' – Person Level (MV Occupant) Form
  - 'NM' – Person Level (Not a MV Occupant) Form
- .12 The Format section gives the type element and whether it must be coded for an original case or whether it can be changed.
- .13 The Element Value section lists the attributes for the element and their associated codes.
- .14 The Remarks section contains coding instructions, special instructions, etc., for the element.

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## **STATE NUMBER** **(FARS Only)**

**FORMAT:** 2 numeric

**SAS NAME:** Accident.STATE

**ELEMENT VALUES:**

01	Alabama	31	Nebraska
02	Alaska	32	Nevada
04	Arizona	33	New Hampshire
05	Arkansas	34	New Jersey
06	California	35	New Mexico
08	Colorado	36	New York
09	Connecticut	37	North Carolina
10	Delaware	38	North Dakota
11	District of Columbia	39	Ohio
12	Florida	40	Oklahoma
13	Georgia	41	Oregon
15	Hawaii	42	Pennsylvania
16	Idaho	43	Puerto Rico
17	Illinois	44	Rhode Island
18	Indiana	45	South Carolina
19	Iowa	46	South Dakota
20	Kansas	47	Tennessee
21	Kentucky	48	Texas
22	Louisiana	49	Utah
23	Maine	50	Vermont
24	Maryland	51	Virginia
25	Massachusetts	52	Virgin Islands
26	Michigan	53	Washington
27	Minnesota	54	West Virginia
28	Mississippi	55	Wisconsin
29	Missouri	56	Wyoming
30	Montana		

**Definition:** This element identifies the state in which the crash occurred.

**Remarks:** None.

IF	THEN
(200P) CITY is greater than 0000 and less than 9997, and COUNTY is greater than 000 and less than 997,	COUNTY and CITY must be valid codes for the STATE.
(220P) LIGHT CONDITION equals 4, and STATE is not equal to 02,	CRASH TIME must equal 0300-0900, 9999.
(2300) LIGHT CONDITION equals 5, and STATE is not equal to 02,	CRASH TIME must equal 1600-2200, 9999.
(A010) STATE equals 02, and LIGHT CONDITION equals 4,	CRASH TIME should equal 0300-1000, 9999.
(A020) STATE equals 02, and LIGHT CONDITION equals 5,	CRASH TIME should equal 1500-2359, 9999.
(G01P) STATE is_____, and GLOBAL POSITION - LATITUDE (degrees) is not equal to 77, 88, 99,	LATITUDE (degrees) must be equal to, or greater than ( <u>1d</u> ), and LATITUDE (degrees) must not be greater than ( <u>2d</u> ). LATITUDE (minutes) must be equal to, or greater than ( <u>1s</u> ).
(G02P) STATE is_____, and GLOBAL POSITION - LATITUDE (degrees) equals ( <u>1d</u> ),	LATITUDE (minutes) must not be greater than ( <u>2s</u> ).
(G03P) STATE is_____, and GLOBAL POSITION - LATITUDE (degrees) equals ( <u>2d</u> ),	
(G04P) STATE is_____, and GLOBAL POSITION - LONGITUDE (degrees) is not equal to 777, 888, 999,	LONGITUDE (degrees) must be equal to, or greater than, ( <u>3d</u> ), and LONGITUDE (degrees) must not be greater than ( <u>4d</u> ). LONGITUDE (minutes) must be equal to, or greater than ( <u>3s</u> ).
(G05P) STATE is_____, and GLOBAL POSITION - LONGITUDE (degrees) equals ( <u>3d</u> ),	
(G06P) STATE is_____, and GLOBAL POSITION - LONGITUDE (degrees) equals ( <u>4d</u> ),	LONGITUDE (minutes) must not be greater than ( <u>4s</u> ).
(A940) STATE NUMBER equals 11,	maximum SPEED LIMIT (not including 98 or 99) should equal 55.
(A945) STATE NUMBER equals 15,	maximum SPEED LIMIT (not including 98 or 99) should equal 60.
(A950) STATE NUMBER equals 09, <b>10, 24, 25, 34, 36, 41</b> , 43, 44, 50, 55,	maximum SPEED LIMIT (not including 98 or 99) should equal 65.
(A955) STATE NUMBER equals 01, 05, 06, 12, 13, <b>17</b> , 18, 19, 20, 21, 22, 26, 27, 28, 29, <b>33, 37, 39, 42</b> , 45, 47, 51, 53, 54,	maximum SPEED LIMIT (not including 98 or 99) should equal 70.

	<b>IF</b>	<b>THEN</b>
(A960)	STATE NUMBER equals 04, 08, 16, 30, 31, 32, 35, 38, 40, 46, 48, 49, 56,	maximum SPEED LIMIT (not including 98 or 99) should equal 75.
(U370)	<b><i>UNLIKELY: EXTENT OF DAMAGE equals 8 if STATE NUMBER does not equal 48, 49, 53.</i></b>	
(V983)	VEHICLE TRAILING equals 3,	STATE should equal 04, 08, 16, 18, 20, 30-32, 38-41, 46, 49.
(V984)	STATE does not equal 04, 08, 16, 18, 20, 30-32, 38-41, 46, 49,	VEHICLE TRAILING should not equal 3.

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## **CONSECUTIVE NUMBER** **(FARS Only)**

**FORMAT:** 4 numeric

**SAS NAME:** Accident.ST\_CASE

**ELEMENT VALUES:**

0001-9999 Assigned Number

**Definition:** This element identifies the unique case number assigned by the data entry system.

**Remarks:**

Please complete FARS forms with the MDE assigned case number.

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## NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES

**FORMAT:** 2 numeric

**SAS NAME:** Accident.PEDS

**ELEMENT VALUES:**

1-99 Actual Number

**Definition:** This element records the number of Person Forms (Not a Motor Vehicle Occupant) that are applicable to this case.

**Remarks:**

This count will match exactly the persons counted in the case structure field "Number of Persons Not in Motor Vehicles" (formerly called "Number of Non-Motorist Forms Submitted"). Occupants of any motor vehicle in-transport, parked/stopped off roadway motor vehicles, working motor vehicles, or motor vehicles in motion outside the trafficway will not be counted in this field.

The count for this field includes:

1. Occupants of a Non-Motor Vehicle Transport Device (persons riding in an animal-drawn conveyance, on an animal, injured occupants of railway trains) - Person Type (NM7) attribute **04 (Occupant of a Non-Motor Vehicle Transport Device)**.
2. Pedestrians, Bicyclists and Other Cyclists - Person Type (NM7) attributes: "05, 06 and 07."
3. Other Persons on Personal Conveyances (i.e., skaters, wheel chair occupants) – Person (Not a Motor Vehicle Occupant) form Person Type attribute **08 (Person on Personal Conveyances)**.
4. Any injured persons outside the trafficway that are not in a motor vehicle (in buildings) - Person (Not a Motor Vehicle Occupant) form Person Type attribute **10 (Persons In/On Buildings)**.

**Consistency Checks:**

IF	THEN
(5Y0F) FIRST HARMFUL EVENT equals 08,09, 15,	NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES must not equal 00.
(CSI4) NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES must equal the actual number of persons not in motor vehicles in this case.	

	<b>IF</b>	<b>THEN</b>
(PB34)	NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals <b>01</b> , and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> must not equal 320, 330, 360, 680, 830, 890, 900, or 910.
(PB35)	NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals <b>01</b> , and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02,	PEDESTRIAN/BIKE TYPING - <b>CRASH LOCATION - PEDESTRIAN</b> must equal 1.

## **NUMBER OF VEHICLE FORMS SUBMITTED**

**FORMAT:** 3 numeric

**SAS NAME:** Accident.VE\_TOTAL

**ELEMENT VALUES:**

001-999

**Definition:** This element records all contact motor vehicles which the officer has reported on the Police Accident Report (PAR) as a unit involved in the crash.

**Remarks:**

Included are: in-transport vehicles, not in-transport vehicles (parked/stopped off roadway/working motor vehicles) or vehicles located outside the trafficway boundaries.

**When identifying contact vehicles for this count:**

1. Remember all vehicles that are part of the unstabilized situation are part of the crash. Therefore, when recording the number of vehicles involved, the vehicles need not make contact with one another. They need only have a harmful event as part of the unstabilized situation. For example, two vehicles are traveling through an intersection when a pedestrian steps into the roadway. The first vehicle strikes the pedestrian and the second vehicle swerves to avoid the first, loses control and overturns. Both vehicles in this situation are "contact" vehicles; therefore, this is a two-vehicle crash.
2. Even though there are no injuries in the vehicle or the amount of damage sustained is below the state threshold, if the vehicle is involved in a harmful event it is still a contact vehicle within the entire crash and should be included in this count even if the vehicle information section is not completed on the PAR.

**IMPORTANT:**

Remember, you must have at least one motor vehicle "In-Transport" involved in the crash for this to be a reportable case.

**GES SPECIAL INSTRUCTION:**

When one motor vehicle is towing another, the number of motor vehicles entered depends on the type of linkage between the vehicles. A fixed linkage is defined as one which has the property of keeping the towed unit separated from the power unit by a distance which is essentially constant. Included within this definition are cradle linkages where the towed unit has two or more wheels off the ground. A non-fixed linkage (such as a rope or a chain) requires the towed unit to be manually controlled.

If the PAR indicates (probably in the narrative section) the linkage between the units is fixed, consider the towed unit as cargo throughout the entire crash sequence, regardless of subsequent events/impacts sustained by the towed unit. In other words, a vehicle towed by a fixed linkage: (1) is never considered as an in-transport vehicle, and (2) will be considered as cargo associated with the power unit.

If the linkage between the units is non-fixed, each vehicle is considered to be in-transport, and only the vehicle(s) involved in the crash sequence can be counted. If no information is available regarding type of linkage, assume fixed linkage.

### Consistency Checks:

IF	THEN
(050P) PERSON TYPE equals 04-08, 19, and NUMBER OF VEHICLE FORMS SUBMITTED equals 001,	NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal 001.
(1A0P) RELATED FACTORS-CRASH LEVEL equals 14,	NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.
(2Z0F) any SEQUENCE OF EVENTS equals 12, 14, 45, 54, 55,	NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.
(428P) CRASH TYPE equals 20-91,	NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.
(429P) NUMBER OF VEHICLE FORMS SUBMITTED equals 001,	CRASH TYPE must equal 00, 01-16, 92, 98, 99.
(42AP) NUMBER OF MOTOR VEHICLES FORMS SUBMITTED equals 001, and RELATION TO TRAFFICWAY equals 02, 04, 06-08, and ATTEMPTED AVOIDANCE MANEUVER equals 00 or 01,	CRITICAL EVENT – PRECRASH (EVENT) should equal 01-06, 08-14 or 19.
(431P) <b>NUMBER OF VEHICLE FORMS SUBMITTED equals 2 and UNERRIDE/OVERRDE equals 1-8, 9 for one vehicle,</b>	<b>UNERRIDE/OVERRIDE for the other vehicle must equal 0.</b>
(432P) <b>NUMBER OF VEHICLE FORMS SUBMITTED equals 1,</b>	<b>UNERRIDE/OVERRIDE must equal 0.</b>
(670F) FIRST HARMFUL EVENT equals 12, 14, 45, 54, 55,	NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.
(A080) DRIVER PRESENCE equals 0, and FIRST HARMFUL EVENT equals 12, and NUMBER OF VEHICLE FORMS SUBMITTED equals 002,	one RELATED FACTORS-DRIVER LEVEL should equal 20.
(A090) NUMBER OF VEHICLE FORMS SUBMITTED is greater than 001,	there should be at least one vehicle with TRAVEL SPEED of 001-151, 997-999, or blanks.

	IF	THEN
(AZDQ)	<b><i>DRIVER MANEUVERED TO AVOID equals 04,</i></b>	<b><i>NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.</i></b>
(CSI1)	NUMBER OF VEHICLE FORMS must equal the actual number of Vehicle Level forms for this case.	
(CSI2)	There must be exactly one Driver Level form corresponding to each Vehicle Level form.	

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## **NUMBER OF MOTOR VEHICLE OCCUPANT FORMS SUBMITTED**

**FORMAT:** 3 numeric

**SAS NAME:** Accident.PERSONS

**ELEMENT VALUES:**

000-999

**Definition:** This element records the number of Person Forms (Motor Vehicle Occupant) that are applicable to this case.

**Remarks:**

A Person Level form must be submitted for all persons involved in the crash, except for:

- 1) uninjured bus passengers (excluding van-based bus passengers); and
- 2) uninjured railway train occupants.

Always submit a Person Level (MV Occupant) form for the bus driver regardless of injury and any injured passengers, as well as any injured railway train occupants. Persons ejected or who fall from a motor vehicle in-transport are still considered occupants of that vehicle for the duration of the unstabilized situation.

Submit a Person Level form for persons in a hit-and-run vehicle. If no information is known, code all elements as **Unknown**.

**FARS SPECIAL INSTRUCTION:**

Before 2003, the policy was not to submit a Person Level form for uninjured occupants of van-based buses. This policy has changed beginning in 2003. Always submit a Person Level form for all occupants of van-based vehicles, including van-based buses.

**Consistency Check:**

- (CSI3) NUMBER OF MOTOR VEHICLE OCCUPANT FORMS SUBMITTED must equal the actual number of Person Level (Motor Vehicle Occupant) forms for this case.

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## COUNTY/CITY (FARS Only)

**FORMAT:** one set 3 numeric, one set 4 numeric

**SAS NAME:** Accident.COUNTY, Person.COUNTY, Accident.CITY

**ELEMENT VALUES:**

<u>County:</u>		<u>City:</u>	
000	Not Applicable	0000	Not Applicable
001-996	GSA Codes	0001-9996	GSA Codes
997	Other	9997	Other
998	Not Reported	9898	Not Reported
999	Unknown	9999	Unknown

**Definition:** This element refers to the location of the unstabilized event.

**Remarks:**

COUNTY and CITY are considered one field. Both must be submitted at the same time.

If COUNTY only is known, CITY may be **9999 (Unknown)**.

Code CITY as **0000 (Not Applicable)** if the crash does not occur within city limits.

Code CITY as **9997 (Other)** if CITY is other than those given by the GSA Codes.

Code CITY as **9999 (Unknown)** if crash location is unknown.

Code COUNTY as **997 (Other)** if COUNTY is other than those given by the GSA Codes.

Code COUNTY as **999 (Unknown)** if location is unknown.

In general, **Not Applicable** should be used when there is no GSA code for the crash location.

**Other** should be used when the Analyst knows there is a GSA code for the location, but the attribute does not appear on the master GSA code list provided by Headquarters. Both situations should be reported to Headquarters.

**Not Reported**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **Not Reported** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**Consistency Checks:**

IF	THEN
(200P) CITY is greater than 0000 and less than 9997, and COUNTY is greater than 000 and less than 997,	COUNTY and CITY must be valid codes for the STATE.
(210P) CITY is greater than 0000 and less than 9997,	COUNTY must not equal 999.

## **CRASH DATE**

**FORMAT:** 2 sets of 2 numeric and 1 set of 4 numeric

**SAS NAME:** Accident.DAY, Vehicle.DAY, Person.DAY, parkwork.PDAY, Accident.MONTH, Accident.DAY\_WEEK, Accident.YEAR; Vehicle.MONTH; Person.MONTH; parkwork.PMONTH

**ELEMENT VALUES:**

01-12	Month
01-31	Day (FARS Only)
Current (pre-printed)	Year

**Definition:** This element identifies the date on which the crash occurred.

**Remarks:**

If the PAR indicates that the crash (usually a hit-and-run) occurred between some PM and AM time (e.g., 8:00 PM and 6:00 AM) on either a preceding or following day, code the crash as occurring on the following day. If a range of days is indicated (e.g., between Sunday and Friday), code the last date of the range (e.g., Friday).

**FARS SPECIAL INSTRUCTION:**

In cases where the crash date is reported as Unknown on the PAR, refer to the death certificate for the death date to establish the crash date.

**GES SPECIAL INSTRUCTION:**

The date of the crash is rolled up from NASS sampling program.

If the date of the crash is unknown, use the date the crash was reported. If the time of the crash is unknown, record the time as 9999.

If the month cannot be determined from the PAR, enter the month of the Ending Contact Date from the Inventory Record.

If the crash date on the PAR does not match the crash date shown on the data entry screen and it is determined that the crash date on the PAR is correct, the crash date is corrected.

**Consistency Checks:**

IF	THEN
(1C0P) the MODEL YEAR is not equal to 9998 or 9999,	the vehicle MODEL YEAR must not be greater than CRASH YEAR plus ONE.
(3K0P) DATE OF LAST CRASH, SUSPENSION, CONVICTION must be less than or equal to CRASH DATE.	
(3U0P) DEATH DATE equals CRASH DATE, and CRASH TIME is not equal to 9999,	DEATH TIME must not be less than CRASH TIME.
(4V1F) INJURY SEVERITY equals 4,	DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME.
(4V2F) CRASH MONTH equals 12, and DEATH MONTH equals 01,	DEATH YEAR must equal CRASH YEAR plus 1.
(4V3F) CRASH MONTH equals 12,	DEATH MONTH must equal 01, 12, 88, 99.
(4V4F) CRASH MONTH equals 02-11, and DEATH MONTH is not equal to 88 or 99,	DEATH MONTH must equal CRASH MONTH or CRASH MONTH plus 1.
(4V5F) CRASH MONTH equals 01, and DEATH MONTH is not equal to 88 or 99,	DEATH MONTH must equal CRASH MONTH or CRASH MONTH plus 1 or CRASH MONTH plus 2.
(5K0P) The Year of DATE OF FIRST CRASH, SUSPENSION, CONVICTION must be within three years of the Year of CRASH DATE.	
(6V0P) DEATH DATE must not be less than CRASH DATE.	
(7V0F) DEATH YEAR equals 9999,	CRASH MONTH must not be 01-11.
(921P) MAKE is not 97, 98, 99, and equals ___, and MODEL equals ___,	MODEL YEAR must equal ___, or CRASH YEAR plus 1.
(A030) CRASH MONTH equals 05-09,	ATMOSPHERIC CONDITIONS should not equal 03, 04, 11, 12.
(A040) CRASH MONTH equals 05-09,	ROADWAY SURFACE CONDITIONS should not equal 03, 04, 10.
(FP4F) CRASH DATE is blank, case status is flawed.	
(V620) CRASH MONTH is between January and March,	the VEHICLE MODEL YEAR should NOT be greater than the CRASH YEAR unless it equals 9998 or 9999 (contact Coding Assistance).

**Consistency Checks (FARS Only):**

IF	THEN
(P520) CRASH DATE and DEATH DATE are the same, and CRASH TIME and DEATH TIME are the same,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0, and DIED AT SCENE/EN ROUTE should equal 7.

## **CRASH TIME**

**FORMAT:** 4 numeric

**SAS NAME:** Accident.Hour, Accident.Minute; Vehicle.HOUR, Vehicle.MINUTE, Person.HOUR, Person.MINUTE, parkwork.PHOUR, parkwork.PMINUTE

**ELEMENT VALUES:**

0000-2359	Valid military time (Code midnight as "0000")
9999	Unknown

**Definition:** This element identifies the time at which the crash occurred.

**Remarks:**

Enter time as shown on the PAR. All available information in the case materials should be used to determine Crash Time. If the hour cannot be determined, then enter **9999 (Unknown)**.

If the PAR indicates the crash occurred during some time interval of greater than one hour (e.g., 8:00 PM to 6:00 AM, or 8:00 AM to 5:00 PM), enter **9999 (Unknown)**. However, if the interval is one hour or less, code the midpoint of the interval.

**Examples:**

- 8:00 PM to 9:00 PM, enter **2030**
- 8:30 PM to 9:30 PM, enter **2100**
- 8:50 PM to 9:30 PM, enter **2110**

When the time is available but AM versus PM is not shown on the PAR, base the time on Light Condition (e.g., time is 10:00, Light Condition is **2 (Dark - Not Lighted)**; code as **2200**).

Midnight or 12 AM is coded as **0000** in military time and is the start of a new day. One minute after midnight is 12:01 and is coded as **0001**.

AM - Starts at 00:00 Midnight

PM - Starts at 12:00 Noon

If the case materials state the crash occurred at the beginning or early moments of the day, midnight is coded as **0000**.

**FARS SPECIAL INSTRUCTION:**

If the day of the crash and the day of EMS Notification do not have the same date, then be sure to use Date of Accident and Date of EMS Notification Were Not the Same Day in Related Factors – Crash Level.

**How to Code Midnight:**

In general, code midnight as **0000**. However, there may be confusion over which day midnight falls into. Crash Time is recorded between 00:00-23:59. Midnight is coded as **0000** to represent the beginning of a new day. This may not be the practice followed in your sources. Therefore, you have to determine which part of the day is being considered in your sources.

**End of Day:**

If your data sources give you a Crash Date and are consistent in talking about the end of that day, when they give the time of the crash as midnight, 12:00-midnight, 24:00 or 00:00, then you should code Crash Time as **2359**.

**Beginning of Day:**

If your sources give a Crash Date and are consistent in referring to the beginning or early moments of that day when they give a crash time, code midnight as **0000**.

See remarks-Notification/Arrival Time EMS, EMS Arrival At Hospital.

**GES SPECIAL INSTRUCTION:**

The time of the crash is rolled up from NASS sampling program. If the time of the crash is unknown, record the time as 9999.

If the time of the crash on the PAR does not match the crash time shown on the data entry screen and it is determined that the crash time on the PAR is correct, then the crash time should be changed to reflect the time listed on the PAR.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(220P)	LIGHT CONDITION equals 4, and STATE is not equal to 02,	CRASH TIME must equal 0300-0900, 9999.
(2300)	LIGHT CONDITION equals 5, and STATE is not equal to 02,	CRASH TIME must equal 1600-2200, 9999.
(3U0P)	DEATH DATE equals CRASH DATE, and CRASH TIME is not equal to 9999,	DEATH TIME must not be less than CRASH TIME.
(4V1F)	INJURY SEVERITY equals 4,	DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME.
(A010)	STATE equals 02, and LIGHT CONDITION equals 4,	CRASH TIME should equal 0300-1000, 9999.

IF	THEN
(A020) STATE equals 02, and LIGHT CONDITION equals 5,	CRASH TIME should equal 1500-2359, 9999.
<b>(A041) CRASH MONTH equals 05-09,</b>	<b>SEQUENCE OF EVENTS, FIRST HARMFUL EVENT, MOST HARMFUL EVENT should not equal 48.</b>
(A050) CRASH TIME equals 0900-1600,	LIGHT CONDITION should not equal 2-6.
(A060) CRASH TIME equals 2300-0400,	LIGHT CONDITION should not equal 1, 4, 5, 9.
(A070) NOTIFICATION TIME EMS is not 8888, 9998 or 9999,	NOTIFICATION TIME EMS should not be more than 120 minutes later than CRASH TIME.
(FP5F) CRASH TIME is blank, case status is flawed.	
(P56P) DIED AT SCENE/EN ROUTE equals 7,	DEATH TIME should be within 30 minutes of the CRASH TIME.

**Consistency Checks (FARS Only):**

IF	THEN
(P520) CRASH DATE and DEATH DATE are the same, and CRASH TIME and DEATH TIME are the same,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0, and DIED AT SCENE/EN ROUTE should equal 7.

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## **NATIONAL HIGHWAY SYSTEM**

### **(FARS Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Accident.NHS

**ELEMENT VALUES:**

- 0 This section IS NOT on the NHS
- 1 This section IS ON the NHS
- 9 Unknown if this section is on the NHS

**Definition:** This element identifies whether or not this crash occurred on a trafficway that is part of the National Highway System.

**Remarks:**

The National Highway System includes the Interstate System, and consists of principal arterial system routes and some Strategic Highway Network connectors functionally classified below principal arterial.

Federal Highway Administration classification obtainable from the State Highway Department must be used. No other classification source is acceptable. Refer problems in obtaining the F.H.W.A. classification to Regional State Assignee.

**Consistency Checks:**

IF	THEN
(260P) ROUTE SIGNING equals 1,	NATIONAL HIGHWAY SYSTEM must equal 1.
(300P) NATIONAL HIGHWAY SYSTEM equals 0, 9,	ROADWAY FUNCTION CLASS must not equal 01, 11.
(320P) ROADWAY FUNCTION CLASS equals 01, 11, and ROUTE SIGNING does not equal 7,	NATIONAL HIGHWAY SYSTEM must equal 1.
(330P) NATIONAL HIGHWAY SYSTEM equals 0, 9,	ROUTE SIGNING must not equal 1.
(A850) ROADWAY FUNCTION CLASS equals 02, 12, and ROUTE SIGNING equals 2,	NATIONAL HIGHWAY SYSTEM should equal 1.
(A860) NATIONAL HIGHWAY SYSTEM equals 1,	ROADWAY FUNCTION CLASS should equal 01, 02, 11-13.

	<b>IF</b>	<b>THEN</b>
(A910)	ROADWAY FUNCTION CLASS equals 03-06, 14-16,	NATIONAL HIGHWAY SYSTEM should equal 0, 9.
(A920)	NATIONAL HIGHWAY SYSTEM equals 0, 9,	ROADWAY FUNCTION CLASS should not equal 02, 12, and ROUTE SIGNING should not equal 2.

## **ROADWAY FUNCTION CLASS**

### **(FARS Only)**

**FORMAT:** 2 numeric

**SAS NAME:** Accident.ROAD\_FNC; Person.ROAD\_FNC

**ELEMENT VALUES:**

- 1      Rural-Principal Arterial - Interstate
- 2      Rural-Principal Arterial - Other
- 3      Rural-Minor Arterial
- 4      Rural-Major Collector
- 5      Rural-Minor Collector
- 6      Rural-Local Road or Street
- 09     Rural-Unknown Rural
- 11     Urban-Principal Arterial - Interstate
- 12     Urban-Principal Arterial - Other (Freeways or Expressways)
- 13     Urban-Other Principal Arterial
- 14     Urban-Minor Arterial
- 15     Urban-Collector
- 16     Urban-Local Road or Street
- 19     Urban-Unknown Urban
- 99     Unknown

**Definition:** This element identifies the functional classification of the trafficway on which the crash occurred.

**Remarks:**

### **NON-JUNCTION CRASHES**

Assign the crash to the trafficway on which the first harmful event occurred. If the first harmful event occurred on private property, assign the crash to the trafficway on which the vehicle was traveling when the Unstabilized Situation began.

### **INTERSECTION CRASHES (Not Within an Interchange)**

In an at-intersection crash, assign the crash to the highest function class of trafficway at the intersection.

If the vehicles are traveling on different roadways of equal class, assign the crash to the roadway on which the motor vehicle precipitating the crash is traveling.

## INTERSECTION CRASHES (Within an Interchange)

Interchange crashes that occur in an intersection of a ramp that connects a higher and a lower class trafficway should be assigned to the highest-class trafficway. For example: vehicle #1 strikes vehicle #2 in the intersection of the I-270 ramp and US-10. Code Roadway Function Class as **01 or 11 (Principal Arterial - Interstate)**.

Ramps are part of the highest class of trafficway to which they connect. Therefore, if a crash occurs on a ramp, including in the merge/diverge lanes, and it is not an Intersection crash, it is assigned to the highest class of trafficway to which the ramp connects. Example: vehicle #1 overturns on the ramp of I-270 and US-10. Code Roadway Function Class **01 or 11 (Principal Arterial - Interstate)**. This includes intersection-related and entrance/exit ramp related crashes for Relation to Junction.

## OTHER CRASHES (Within an Interchange)

For other crashes that occur within an interchange, other than intersection crashes, code Roadway Function class for the trafficway on which the vehicles were traveling. Example, vehicle #1 strikes vehicle #2 on US-10 bridge within the I-270 interchange (not in the intersection of any ramp, or on any ramp). Code Roadway Function Class for US-10 and not I-270.

## QUESTIONABLE CASES

In any questionable case, the higher function class takes precedence.

Federal Highway Administration classification obtainable from the State Highway Department must be used. No other classification source is acceptable. Refer problems in obtaining the F.H.W.A. classification to Regional State Assignee.

### Consistency Checks:

IF	THEN
(1T0P) SPEED LIMIT for every vehicle is greater than 55, and not equal to 98 or 99,	ROADWAY FUNCTION CLASS should not equal 15, 16.
(300P) NATIONAL HIGHWAY SYSTEM equals 0, 9,	ROADWAY FUNCTION CLASS must not equal 01, 11.
(320P) ROADWAY FUNCTION CLASS equals 01, 11, and ROUTE SIGNING does not equal 7,	NATIONAL HIGHWAY SYSTEM must equal 1.
(A110) FIRST HARMFUL EVENT equals 10,	ROADWAY FUNCTION CLASS should not equal 01, 11,12.
(A150) ROADWAY FUNCTION CLASS equals 01, 11, 12, and RELATION TO JUNCTION (a) equals 0,	RELATION TO JUNCTION (b) should not equal 02-04, 06, 08.

IF	THEN
(A160) ROADWAY FUNCTION CLASS equals 01, 02, 04, 11, 12, 13, 15,	ROADWAY SURFACE TYPE should equal 1, 2, 8 or 9 for at least one vehicle.
(A170) ROADWAY SURFACE TYPE equals 3-5 for every vehicle,	ROADWAY FUNCTION CLASS should not equal 01-03, 11-15.
(A180) ROADWAY FUNCTION CLASS equals 01, 11,	SPECIAL JURISDICTION should not equal 1-5, 8, 9.
(A190) ROADWAY FUNCTION CLASS equals 12,	SPECIAL JURISDICTION should not equal 4.
(A200) RELATION TO JUNCTION (b) equals 07,	ROADWAY FUNCTION CLASS should not equal 04-06, 16.
(A210) ROADWAY FUNCTION CLASS equals 01, 11, 12, and RELATION TO JUNCTION (a) equals 0,	TRAFFIC CONTROL DEVICE should not equal 01-04, 07, 20, 23, 40, 50, 65.
(A220) ROADWAY FUNCTION CLASS equals 01, 11, and RELATION TO JUNCTION (a) equals 0,	SPEED LIMIT should not equal 05-40 for any vehicle.
(A230) SEQUENCE OF EVENTS equals 10,	ROADWAY FUNCTION CLASS should not equal 01, 11.
(A240) ROADWAY FUNCTION CLASS equals 01, 11, and RELATION TO JUNCTION (a) equals 0,	TRAVEL SPEED should not equal 005-040 for any vehicle.
(A250) ROADWAY FUNCTION CLASS equals 01, 02, 11-13, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 03, 05, 20,	TOTAL LANES IN ROADWAY should not equal 1 for the vehicles involved in the first harmful event.
(A720) ROADWAY FUNCTION CLASS equals 01, 11, 12,	TRAFFICWAY DESCRIPTION should equal 2, 3, 6 for at least one vehicle.
(A810) FIRST HARMFUL EVENT equals 46, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 02, 03, 05,	ROADWAY FUNCTION CLASS should not equal 01, 11.
(A840) ROUTE SIGNING equals 7,	ROADWAY FUNCTION CLASS should equal 01, 02, 11-13.
(A850) ROADWAY FUNCTION CLASS equals 02, 12, and ROUTE SIGNING equals 2,	NATIONAL HIGHWAY SYSTEM should equal 1.
(A860) NATIONAL HIGHWAY SYSTEM equals 1,	ROADWAY FUNCTION CLASS should equal 01, 02, 11-13.
(A883) RELATION TO TRAFFICWAY equals 07,	ROADWAY FUNCTION CLASS should not equal 01, 11, 12.
(A900) SPEED LIMIT equals 60, 65 for every vehicle,	ROADWAY FUNCTION CLASS should not equal 05, 06, 14-16.

	<b>IF</b>	<b>THEN</b>
(A910)	ROADWAY FUNCTION CLASS equals 03-06, 14-16,	NATIONAL HIGHWAY SYSTEM should equal 0, 9.
(A920)	NATIONAL HIGHWAY SYSTEM equals 0, 9,	ROADWAY FUNCTION CLASS should not equal 02, 12, and ROUTE SIGNING should not equal 2.

## **ROUTE SIGNING** **(FARS Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Accident.ROUTE

**ELEMENT VALUES:**

- 1 Interstate
- 2 U.S. Highway
- 3 State Highway
- 4 County Road
- 5 Local Street - Township
- 6 Local Street - Municipality
- 7 Local Street - Frontage Road
- 8 Other
- 9 Unknown

**Definition:** This element identifies the route signing of the trafficway on which the crash occurred.

**Remarks:**

Before coding this element, be certain of which trafficway is to be coded. This element is coded with respect to the trafficway in the top row of C13 – Trafficway Identifier. If there is any question, refer to the remarks section of C13 – Trafficway Identifier for a hierarchy for selecting the appropriate trafficway to be coded.

**CODING FRONTAGE ROADS**

If the crash occurs on a frontage road which is part of a larger, higher order trafficway (such as Interstate, U.S. Highway or State Route), use the following guideline to code the highway elements:

- Code Trafficway Identifier and Roadway Function Class for the **1 (Interstate), 2 (US Highway) or 3 (State Route)**
- Code Route Signing **7 (Local Street - Frontage Road)**

Make sure to include the highway designation in Trafficway Identifier when using **7 (Local Street - Frontage Road)**. See Trafficway Identifier (FARS-C13).

If the **Frontage Road** is a separate trafficway, code all highway elements for that trafficway. **Frontage Road** is not used.

**8 (Other) includes ‘Other Limited Access’ and ‘Other Major Artery.’**

Federal Highway Administration classification obtainable from the State Highway Department must be used. No other classification source is acceptable. Refer problems in obtaining the F.H.W.A. classification to Regional State Assignee.

**Consistency Checks:**

IF	THEN
(260P) ROUTE SIGNING equals 1,	NATIONAL HIGHWAY SYSTEM must equal 1.
(320P) ROADWAY FUNCTION CLASS equals 01, 11, and ROUTE SIGNING does not equal 7,	NATIONAL HIGHWAY SYSTEM must equal 1.
(330P) NATIONAL HIGHWAY SYSTEM equals 0, 9,	ROUTE SIGNING must not equal 1.
(340P) ROUTE SIGNING equals 1,	
(341P) the first position of TRAFFICWAY IDENTIFIER #1 equals “I” and the second position equals “-”,	the first position of TRAFFICWAY IDENTIFIER #1 must be “I” and the second position must be “-”. ROUTE SIGNING must equal 1 or 7.
(350P) ROUTE SIGNING equals 2,	
(351P) the first two positions of TRAFFICWAY IDENTIFIER #1 equals “US” and third position equals “-”,	the first two positions of TRAFFICWAY IDENTIFIER #1 must be “US” and the third position must be “-”. ROUTE SIGNING must equal 2 or 7.
(360P) ROUTE SIGNING equals 3,	
(361P) the first two positions of TRAFFICWAY IDENTIFIER #1 equals “SR” and third position equals “-”,	the first two positions of TRAFFICWAY IDENTIFIER #1 must be “SR” and the third position must be “-”. ROUTE SIGNING must equal 3 or 7.
(362P) ROUTE SIGNING equals 4,	
(A280) ROUTE SIGNING equals 1,	the first two positions of TRAFFIC-WAY IDENTIFIER #1 must be “CR” and the third position must be “-”. SPECIAL JURISDICTION should not equal 1-5, 8, 9.
(A290) ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,	RELATION TO JUNCTION (b) should not equal 02-04, 06, 08, 16.
(A291) RELATION TO JUNCTION (b) equals 07,	ROUTE SIGNING should not equal 5, 6.

	IF	THEN
(A300)	ROUTE SIGNING equals 1,	TRAFFICWAY DESCRIPTION should equal 2, 3, 6 for at least one vehicle.
(A310)	ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,	TOTAL LANES IN ROADWAY should not equal 1 for any vehicle.
(A320)	ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,	SPEED LIMIT should not equal 05-40 for any vehicle.
(A330)	ROUTE SIGNING equals 1, 2,	ROADWAY SURFACE TYPE should equal 1, 2, 8 for at least one vehicle.
(A350)	ROUTE SIGNING equals 1,	FIRST HARMFUL EVENT should not equal 10.
(A360)	RELATION TO JUNCTION(b) equals 07,	ROUTE SIGNING should not equal 4.
(A700)	SPEED LIMIT is greater than 65 for every vehicle,	ROUTE SIGNING should equal 1-4.
(A820)	FIRST HARMFUL EVENT equals 46, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 02, 03, 05,	ROUTE SIGNING should not equal 1.
(A840)	ROUTE SIGNING equals 7,	ROADWAY FUNCTION CLASS should equal 01, 02, 11-13.
(A850)	ROADWAY FUNCTION CLASS equals 02, 12, and ROUTE SIGNING equals 2,	NATIONAL HIGHWAY SYSTEM should equal 1.
(A882)	RELATION TO TRAFFICWAY equals 07,	ROUTE SIGNING should not equal 1.
(A920)	NATIONAL HIGHWAY SYSTEM equals 0, 9,	ROADWAY FUNCTION CLASS should not equal 02, 12, and ROUTE SIGNING should not equal 2.

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## **TRAFFICWAY IDENTIFIER** **(FARS Only)**

**FORMAT:** 2 sets, 30 alphanumeric

**SAS NAME:** Accident.TWAY\_ID; Accident.TWAY\_ID2

**ELEMENT VALUES:**

Actual Posted Number, Assigned Number, or Common Name (if no posted or assigned number) except:

9s Unknown

**Definition:** This element captures the identity (name) of the trafficway on which the crash occurred.

**Remarks:**

Beginning in 2004, a second trafficway identifier was added to accommodate intersection and intersection-related crashes where the officer provides the identifier for the second trafficway. (See diagram below.)

TRAFFICWAY IDENTIFIER (C13)																														
Actual Posted Number, Assigned Number, or Common Name (If No Posted or Assigned Number) Except: Nine-Fill if Unknown																														
1																														
2																														
(NOTE: MDE allows for up to 30 alphanumeric characters per line)																														

**For Non-Junction Crashes:**

Code the trafficway identifier from the police report or highway department in the top row. Leave the bottom row blank.

**For Intersection Crashes (Not Within an Interchange Area):**

Code the trafficway identifier for the trafficway with the highest function class in the top row. Code the second trafficway identifier at the intersection, if provided by the police, in the bottom row. If the vehicles are traveling on different roadways of equal class, assign the crash to the roadway on which the motor vehicle precipitating the crash is traveling and record this roadway in the top row.

**For Intersection-Related Crashes (Not Within an Interchange Area):**

Code the trafficway identifier for the trafficway provided by the police in the top row. This does not necessarily have to be the highest functional class. In all cases, this will be the trafficway where the first harmful event occurred or the Unstabilized Situation began. Code the second trafficway identifier at the intersection, if provided by the police, in the bottom row.

**For Intersection Crashes Within an Interchange Area:**

If the first harmful event occurs within the intersection of a ramp and the surface roadway:

- Code the trafficway identifier provided on the police report or highway log in the top row (this does not necessarily have to be the highest function class).
- Code Route Signing for the trafficway in the top row.
- It is important to code the Roadway Function Class and National Highway System for the highest class of trafficway at this intersection. (See FARS-C11 – Roadway Function Class).
- Use the bottom row to record the second trafficway identifier provided by the police for this intersection.

**For Intersection-Related Crashes Within an Interchange Area:**

Code the trafficway identifier for the trafficway provided by the police in the top row. In many cases, this will be the trafficway where the first harmful event occurred or the Unstabilized Situation began. Code the second trafficway identifier at the intersection, if provided by the police, in the bottom row.

**For Ramp Crashes:**

If the crash occurs on the ramp or is related to the ramp, include the word “RAMP” and/or the ramp ID number after the trafficway’s identifier (e.g., I-10 RAMP).

**General Guidelines for Coding Trafficway Identifier:**

This data is obtained from the State Highway Department, or if same as that used by the State Highway Department, from the police accident report. Enter all alphabetic characters with CAPITAL LETTERS. If less than 30 characters, left-justify and do not zero-fill.

- Use standard abbreviations for the street name suffix (ex. AVE, BLVD, CT, FWY) (see FARShelf for full list of USPS street abbreviations).
- Do not enter the street address where the crash occurred. For example, 245 Elm St. would be entered as ELM ST.
- Do not enter milepoints here following the trafficway even if provided on the report. Milepoints are entered in the element Milepoint.
- Do not enter a cross street referenced by the investigating officer for a non-junction crash. For example if the report states, “the crash occurred on Main Street, 0.6 miles south of Girard Avenue”, Girard Avenue does not go in Trafficway Identifier 2. Trafficway Identifier 2 is reserved for intersection and intersection-related crashes.
- If a trafficway is known to have both a route identifier and a common name record the route identifier first followed by the common name (Example: State Route 3 is also Indian Head Highway would be coded as SR-3 Indian Head Hwy).

Obtained from the State Highway Department, or if same as that used by the State Highway Department, from the police accident report.

If Route Signing is **1 (Interstate)**, you must enter “I-” in the first two spaces of Trafficway Identifier

If Route Signing is **2 (US Highway)**, you must enter “US-” in the first three spaces of Trafficway Identifier

If Route Signing is **3 (State Highway)**, you must enter “SR-” in the first three spaces of Trafficway Identifier

If Route Signing is **4 (County Road)**, you must enter “CR-” in the first three spaces of Trafficway Identifier followed by the route number OR name if there is no number.

Immediately after the route designation (I-, US- or SR-), you should enter the corresponding highway number. For example, Interstate 70 should be coded as “I-70” and US 66 should be coded as “US-66.” You must use a dash in the highway designation between the capital letters and the number.

If one trafficway is both, a State Highway and an Interstate Highway, Route Signing must always be coded “1-Interstate.” You should always try to obtain the route number and milepoint that correspond to the Route Signing (Interstate).

**(a)** If the Trafficway Identifier and Milepoint are available for only the State Highway then code Route Signing as **1 (Interstate)**, enter “I-” in the first two spaces of Trafficway Identifier followed by the full State Highway Identifier as normal (including any letters.) Code the State Highway Milepoint under the element Milepoint.

E.g.; If California business loop (CA215) is also Interstate 15, then code “I-SR215” or “I-CA215.”

**(b)** If the Trafficway Identifier and Milepoint are available for both the State Highway and the Interstate Highway, enter “I-” in the first two spaces of Trafficway Identifier followed by the Interstate number. You may then also enter the State Highway Identifier anywhere after the Interstate route number. Code the Interstate Milepoint under the element Milepoint.

E.g.; “I-15” (SR215) or “I-15” (CA215)

Similarly, if a State Highway is also a US Highway, Route Signing must always be coded “2-US Highway.” You should always try to obtain the route number and milepoint that correspond to the Route Signing (US Highway).

**(a)** If the Trafficway Identifier and Milepoint are available only for the State Highway, then code Route Signing as **2 (US Highway)**, enter “US-” in the first three spaces of Trafficway Identifier followed by the full State Highway Identifier as normal (including any letters). Code the State Highway Milepoint under the element Milepoint.

E.g.; If Florida Route 25 is also US Route 27, then code “US-SR25” or “US-FL25.”

**(b)** If the Trafficway Identifier and Milepoint are available for both the US Highway and the State Highway, enter “US-” in the first three spaces of Trafficway Identifier followed by the US route number. You may then also enter the State Highway Identifier anywhere after the US route number. Code the US Route Milepoint under the element Milepoint. E.g.; “US-27” (SR25) or “US-27” (FL25).

### **Overlapping Roadways of Equal Function Class**

For situations where you are presented with a roadway with two equal functional class identifiers for the same roadway, such as a stretch of roadway that is both US-10 and US-25, record both trafficways in Trafficway Identifier #1 using the “slash” format. The lower number trafficway should appear before the slash (e.g., “US-10/25”). This would also apply to Interstates, State and County roadways with two designations of equal class.

#### **Consistency Checks:**

<b>IF</b>	<b>THEN</b>
(1F1P) RELATION TO JUNCTION (b) does not equal 02, 03,	the second TRAFFICWAY IDENTIFIER should be blank.
(340P) ROUTE SIGNING equals 1,	the first position of TRAFFICWAY IDENTIFIER #1 must be “I” and the second position must be “-”. ROUTE SIGNING must equal 1 or 7.
(341P) the first position of TRAFFICWAY IDENTIFIER #1 equals “I” and the second position equals “-”,	the first two positions of TRAFFICWAY IDENTIFIER #1 must be “US” and the third position must be “-”. ROUTE SIGNING must equal 2 or 7.
(350P) ROUTE SIGNING equals 2,	
(351P) the first two positions of TRAFFICWAY IDENTIFIER #1 equals “US” and third position equals “-”,	
(360P) ROUTE SIGNING equals 3,	
(361P) the first two positions of TRAFFICWAY IDENTIFIER #1 equals “SR” and third position equals “-”,	
(362P) ROUTE SIGNING equals 4,	
(781P) TYPE OF INTERSECTION equals 02-07, 10,	the first two positions of TRAFFICWAY IDENTIFIER #1 must be “CR” and the third position must be “-”. TRAFFICWAY IDENTIFIER (b) should not be blank. the second TRAFFICWAY IDENTIFIER should not be all blank.
(AC0A) RELATION TO JUNCTION (b) equals 02, 03,	

## **MILEPOINT** **(FARS Only)**

**FORMAT:** 5 numeric

**SAS NAME:** Accident.MILEPT

**ELEMENT VALUES:**

0000.0 None  
 Actual to Nearest Tenth Mile  
 Not Reported  
 Unknown

**Definition:** This element identifies the milepoint nearest to the location where the crash occurred.

**Remarks:**

Refer to the remarks section under Roadway Function Class (C11) for the hierarchy of selecting the trafficway to be coded.

Code the Milepoint for the respective Trafficway Identifier (C13).

Obtained from the Police Accident Report (PAR) or from the State Highway Department. Code the actual Milepoint to the nearest .1 mile with decimal. Right justify if less than 5 digits. For example, if Milepoint is 10, you must code "0010.0."

**(Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **9999.8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

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## **GLOBAL POSITION** **(FARS Only)**

**FORMAT:** 8 numeric, 9 numeric

**SAS NAME:** Accident.Latitude/Accident.Longitud

**ELEMENT VALUES:**

Latitude (dd.mm.ss.ss) (degrees/minutes/seconds)  
Longitude (ddd.mm.ss.ss) (degrees/minutes/seconds)

- |    |               |
|----|---------------|
| 7s | Not Reported  |
| 8s | Not Available |
| 9s | Unknown       |

**Definition:** This element identifies the location of the crash using Global Position coordinates.

**Remarks:**

“Global Position” refers to the geographic location of the crash. It is expressed in Degrees, Minutes and Seconds of **Latitude**; and Degrees, Minutes and Seconds of **Longitude**:

**Latitude: dd mm ss.ss (Degrees/Minutes/Seconds)**

**Longitude: ddd mm ss.ss (Degrees/Minutes/Seconds)**

In some instances your source documents may display Longitude as a negative (-) number. You may disregard the minus (-) sign.

**Right-Justify Degrees and Minutes:**

Note that **Longitude** Degrees can be up to three digits. Code Degrees less than three digits in the right-most positions and “0’s” to the left. Code **Latitude** or **Longitude** Minutes less than two digits in the right-most position with “0’s” to the left. Examples: Longitude “77 degrees – 7 minutes - no seconds” is coded 077 07 00.00; Longitude “80 degrees - no minutes - no seconds” is coded 080 00 00.00; Latitude “30 degrees - one minute - 30 seconds” is coded 30 01 30.00.

**Latitude and Longitude Seconds:**

Code the value of **Latitude** or **Longitude Seconds** to two significant places after the decimal. If the **Latitude** or **Longitude Seconds** precision is less than two decimal positions, enter “0’s” in the right-most positions of **Seconds**. Always right-justify any data before the decimal point with added “0’s” to the left (e.g., 5.1 seconds is 05.10 with no spaces before the decimal point).

**7s (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported**”.

**Code 7s (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**9s (Unknown)** is selected if the investigating officer reported that the global position of the crash was not known.

#### **FARS SPECIAL INSTRUCTION:**

The state Police Accident Report (PAR) may include the geographic location in a format compatible with this element, or the State Highway Department may be able to provide it from a state Geographic Information System (GIS) or Global Positioning System (GPS).

A Geo-locator tool is available on the FARS microcomputer to assist generating latitude and longitude when they are not available through state sources.

If data is unknown, code all "9's." For example, if you are in a state that does record geographic location coordinates, but you don't have those coordinates, and the Geo-locator tool cannot provide the coordinates, the data is unknown.

Code the complete valid **Latitude** and **Longitude**, if available, if not blank and if not unknown. You must code valid **Latitude** or **Longitude** minutes and seconds when coding a valid value for **Latitude** or **Longitude** degrees. (For example: Latitude - 38 99 99.99 is invalid.)

#### **GES SPECIAL INSTRUCTION:**

This data element is only coded if it is present on the PAR and in Lat/Long format, otherwise code as **Not Reported**.

#### **Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(G01P)	STATE is _____ and GLOBAL POSITION - LATITUDE (degrees) is not equal to 77, 88, 99,	LATITUDE (degrees) must be equal to, or greater than ( <u>1d</u> ) and LATITUDE (degrees) must not be greater than ( <u>2d</u> ).
(G02P)	STATE is _____, and GLOBAL POSITION - LATITUDE (degrees) equals ( <u>1d</u> ),	LATITUDE (minutes) must be equal to, or greater than ( <u>1s</u> ).

	IF	THEN
(G03P)	STATE is____, and GLOBAL POSITION - LATITUDE (degrees) equals ( <u>2d</u> ),	LATITUDE (minutes) must not be greater than ( <u>2s</u> ).
(G04P)	STATE is____ and GLOBAL POSITION - LONGITUDE (degrees) is not equal to 777, 888, <b>999</b> ,	LONGITUDE (degrees) must be equal to, or greater than, ( <u>3d</u> ) and LONGITUDE (degrees) must not be greater than ( <u>4d</u> ). LONGITUDE (minutes) must be equal to, or greater than ( <u>3s</u> ).
(G05P)	STATE is____, and GLOBAL POSITION - LONGITUDE (degrees) equals ( <u>3d</u> ),	LONGITUDE (minutes) must not be greater than ( <u>4s</u> ).
(G06P)	STATE is____, and GLOBAL POSITION - LONGITUDE (degrees) equals ( <u>4d</u> ),	all parts of LATITUDE must be all 8's.
(G07P)	any part of GLOBAL POSITION - LATITUDE (degrees, minutes or seconds) is all 8's,	all parts of LONGITUDE must be all 8's.
(G08P)	any part of GLOBAL POSITION - LONGITUDE (degrees, minutes or seconds) is all 8's,	all parts of LATITUDE must be all 9's.
(G09P)	any part of GLOBAL POSITION - LATITUDE (degrees, minutes or seconds) is all 9's,	all parts of LONGITUDE must be all 9's.
(G10P)	any part of GLOBAL POSITION - LONGITUDE (degrees, minutes or seconds) is all 9's,	all parts of LATITUDE must be blank. all parts of LONGITUDE must be blank. all
(G11P)	any part of GLOBAL POSITION - LATITUDE (degrees, minutes or seconds) is blank,	parts of LONGITUDE must be blank. all
(G12P)	any part of GLOBAL POSITION - LONGITUDE (degrees, minutes or seconds) is blank,	parts of LATITUDE must be all 7's.
(G0AP)	any part of GLOBAL POSITION - LONGITUDE (degrees, minutes or seconds) is all 7's,	parts of LONGITUDE must be all 7's.
(G0BP)	any part of GLOBAL POSITION - LATITUDE (degrees, minutes or seconds) is all 7's,	all parts of LATITUDE must be all 7's.

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## **SPECIAL JURISDICTION** **(FARS Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Accident.SP\_JUR

**ELEMENT VALUES:**

- 0 No Special Jurisdiction
- 1 National Park Service
- 2 Military
- 3 Indian Reservation
- 4 College/University Campus\*
- 5 Other Federal Properties\*
- 8 Other
- 9 Unknown

**Definition:** This element identifies if the location on the trafficway where the crash occurred qualifies as a Special Jurisdiction even though it may be patrolled by state, county or local police (e.g., all State highways running through Indian reservations are under the jurisdiction of the Indian reservation).

**Remarks:**

Road must be under the regulation of Special Jurisdiction, although it may be patrolled by state, county or local police forces.

There is a difference between a National Park and National Forest. Only areas described as National Parks should be **1 (National Park Service)**. State parks should be coded as **8 (Other)** and National Forests should be coded as **0 (No Special Jurisdiction)**.

State highways running through Indian Reservations must be coded as **3 (Indian Reservation)**.

\* These values are unlikely occurrences and will raise an error flag.

**Consistency Checks:**

	IF	THEN
(A180)	ROADWAY FUNCTION CLASS equals 01, 11,	SPECIAL JURISDICTION should not equal 1-5, 8, 9.
(A190)	ROADWAY FUNCTION CLASS equals 12,	SPECIAL JURISDICTION should not equal 4.

	<b>IF</b>	<b>THEN</b>
(A280)	ROUTE SIGNING equals 1,	SPECIAL JURISDICTION should not equal 1-5, 8, 9.
(U010)	UNLIKELY: SPECIAL JURISDICTION equals 4, 5.	

## **CRASH EVENTS**

**FORMAT:** (Completed in MDE)

**SAS NAME:** (See Below)

**Remarks:**

The Crash Events table records in chronological sequence, the set of events resulting from an unstabilized situation that constitutes a motor vehicle traffic crash. The “crash” is concluded in time when all events which originate from the unstabilized situation are stabilized. The Crash Events table is designed to provide a coded description of all qualifying events which occurred in the crash.

With this coded chronological sequence of qualified crash events, traffic safety analysts can review the entire series of events involving in-transport motor vehicles. Various areas of concern to the highway safety community can be easily assessed using this data. For instance, the injury severity in crashes can be assessed relative to the number and type of impacts involved. Likewise, certain collision configurations that may create a greater hazardous condition for the occupants can be identified. Other possible areas of analysis would be the mix of vehicles sizes or the types of objects the different classes of vehicles impact.

To complete the Crash Events table, each event for each vehicle is recorded in the order in which they occur, time-wise, based on the description of the crash from the crash report narrative, diagram or other relevant case materials. Crash Events includes both harmful and non-harmful events that occur in the crash. Recording of Crash Events ends at the last harmful event of the entire crash. Therefore, a non-harmful event (e.g., Crossing the Centerline) that occurs following the last harmful event of the crash will not be included.

The Crash Events table is completed based on the actions of the in-transport motor vehicle(s) in the case. Consequently, other involved traffic units (parked motor vehicle, pedestrian, etc.) are only identified in the events for the in-transport motor vehicle that contacted it. If the crash report includes an event that involves only not in-transport motor vehicles and/or non-motorists, that specific event is not entered as an event in the coded crash sequence.

**Examples Include:**

- Not in-transport vehicle impacts pedestrian, other not in-transport vehicle, or fixed object
- Pedestrian or pedalcyclist impacts an object, a not in-transport vehicle, other non-motorist

**\*Note: Data recorded in the Crash Events table is used to derive the following data elements:**

1. First Harmful Event (FHE) – the first injury or damage producing event in each crash.
  2. Areas of Impact / Initial (AOI/Initial) – the first Areas of Impact value for each vehicle
  3. Sequence of Events (SOE) – all events (harmful and non-harmful) associated with each in-transport motor vehicle in the table.

## C17 Table Columns

<b>Vehicle Number (This Vehicle)</b>	<b>Areas of Impact (This Vehicle)</b>	<b>Sequence of Events (SOE)</b>	<b>Vehicle Number (Other Vehicle)</b>	<b>Areas of Impact (Other Vehicle)</b>
--------------------------------------	---------------------------------------	---------------------------------	---------------------------------------	--

# EVENT NUMBER

**FORMAT:** (Completed in MDE)

**SAS NAME:** Cevent.EVENTNUM; Vevent.EVENTNUM

## **ELEMENT VALUES:**

001-999    Actual Number

**Remarks:**

This is a computer assigned number beginning with '001.' The event number(s) show the chronological sequence of the qualifying harmful and non-harmful events in the crash. Qualifying events are those which involve an in-transport motor vehicle or an object set in motion by an in-transport motor vehicle.

In the MDE system this will be the row position and not displayed as a column in the entry table.

**VEHICLE NUMBER (THIS VEHICLE)**

**FORMAT:** (Completed in MDE)

**SAS NAME:** Cevent.VNUMBER1; Vevent.VNUMBER1

## ELEMENT VALUES:

001-999      Actual Number

**Remarks:**

Enter the number of the in-transport motor vehicle associated with the event in the Sequence of Events column of the Crash Events Table. Vehicles are assigned the PAR's vehicle number unless a vehicle number from the PAR is not used in the case (e.g., non-contact vehicle).

## **AREAS OF IMPACT (THIS VEHICLE)**

**FORMAT:** (Completed in MDE)

**SAS NAME:** Cevent.AOI1; Vevent.AOI1

**ELEMENT VALUES:\***

00	Non-Collision
01-12	Clock Points
13	Top
14	Undercarriage
61	Left
62	Left-Front Side
63	Left-Back Side
81	Right
82	Right-Front Side
83	Right-Back Side
18	Cargo/Vehicle Parts Set-In-Motion
19	Other Objects Set-In-Motion
98	Not Reported
99	Unknown

**Remarks:**

If Areas of Impact- Initial Contact Point / Damaged Areas are provided on the crash report in this exact format, use the values from the report unless there are clear errors (e.g. officer switches vehicles by mistake). If these elements are not provided on the crash report in this exact format, then similar report fields, narrative or diagram information may be used to code these elements. These subfields do not refer to direction of force of the impact. They identify the area(s) on the vehicle associated with the initial contact (Subfield 1) and all damage to the vehicle identified in the case material (Subfield 2).

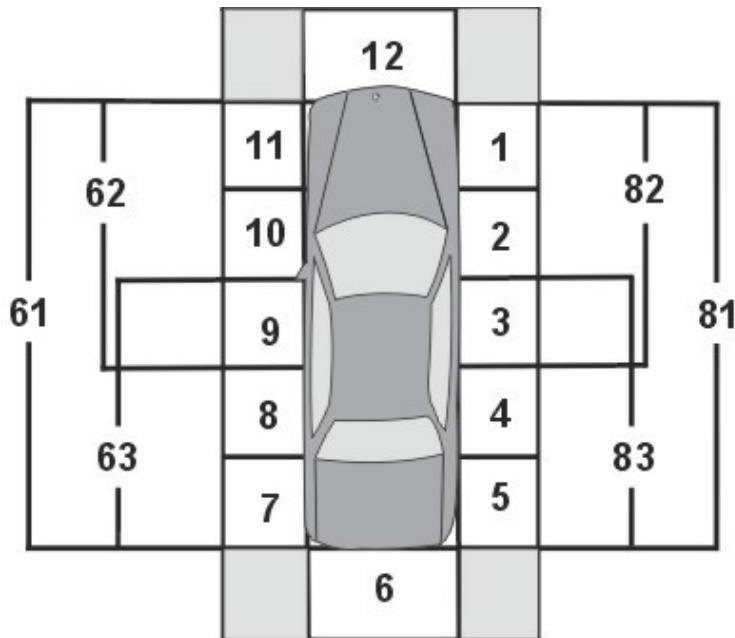
**Areas of Impact / Initial Contact Point (Subfield 1):**

This subfield identifies the area on this vehicle that produced the first instance of injury to non-motorists or occupants of this vehicle, or that resulted in the first instance of damage to other property or to this vehicle. The event that produced the Initial Contact Point for this vehicle may or may not be the first harmful event for the crash. This data is derived from the Crash

Events Table and will always be the first recorded Area(s) of Impact element value for each vehicle in the Crash Events Table.

\*Note the same element values from Areas of Impact – Initial Contact Point are used to complete the Areas of Impact (AOI) fields in the Crash Events Table for all harmful events.

### **Areas of Impact-Initial Contact Point Element Values Diagram**



### **00 (Non Collision [Initial Contact Point])**

If the first harmful event involving this vehicle in the Crash Events Table is a non-collision event then Initial Contact Point will be **00 (Non-Collision)**.

“01-12” refer to the points on a clock. The sides of the vehicle are divided into 5 equal segments, 01 through 05 for the right side and 07 through 11 for the left side. The front (12), back (06), top (13) and undercarriage (14) complete the outside surfaces of the vehicle. Use the diagrams at the end of the element for examples of how the 5 equal side segments are created on several vehicle types.

As procedure, start by looking for one of the “clock” values 01-12 or specific situation values 00, 13, 14, 18. If sufficient detail is not available to choose one of these values, move out to the next set of values to try to identify the appropriate codes (i.e., 62-63, 82-83, then 61, 81). Lastly, for missing information pertaining to known harmful events, a **98 (Not Reported)** attribute is available.

### **61-63 and 81-83:**

Codes, 62-63 and 82-83 are used when there is not sufficient detail available in the case materials to identify a more specific area of impact , 01-05 and 07-11, but one of the quadrants can be identified (i.e., **62 (Left-Front Side)** , **63 (Left-Back Side)**, **82 (Right-Front Side)** or **83 (Right-Back Side)**). Also use these attributes if the case materials indicate that the damage area is “between” or overlapping two known clock points. (e.g., if the damage area is midway between or overlapping clock points 10 and 11, use **62 (Left-Front Side)**).

Codes 61 and 81 are used when there is not sufficient detail available in the case materials to identify a more specific area of impact, 62-63 or 82-83, but one of the sides can be identified (i.e., **61 (Left)** or **81 (Right)**).

### **Guideline for Resolving Ambiguous Information**

If the language in the narrative is ambiguous **AND** the diagram or other case information don’t provide resolution, use the area indicated first in the narrative wording to select the Area of Impact to code. See examples table below.

Description	Coding
Front, left	12
Left, front	62
Front, corner	12
Right, rear	83
Back, right side	06

It is important to note that area of impact refers mainly to the area of the vehicle that sustained the damage and does not depend upon the attitude of the vehicle (e.g., damage to a grille is still damage at 12 o-clock even if it was caused by sliding sideways past a utility pole).

However, **13 (Top)** may raise questions. The front and rear windows of some vehicles may also be viewed from the top. It may also be difficult to code impacts to the hood and rear deck of a vehicle.

With **13 (Top)** the direction of force sometimes has to be considered. The following are guidelines for using **13 (Top)**.

1. If the area was damaged by an impact that was received horizontally to an upright vehicle, use one of the codes “01 to 12, 61-63, 81-83.”
2. If the area was damaged by an impact that was received from a vertical direction above the upright vehicle, use **13 (Top)**.
3. If the impact was received or direction of force was at an angle of less than 15 degrees above the horizontal, it is considered horizontal.
4. With a vehicle in other than upright attitudes, remember, it is the area of the vehicle which was damaged that is important.

**14 (Undercarriage)** refers to impacts to the tires/wheels, axles, exhaust system, etc.

**Special Instructions Involving Motorcycles:**

For cases involving a motorcycle where the area of initial contact is described as “front tire/wheel” or “front end” code as **12 (Front)** or “rear tire/wheel” or “rear end” code as **06 (Back)** if the impact was received on a horizontal plane.

If the only event for a vehicle is a non-collision event, the Area of Impact - Initial is coded **00 (Non-Collision)**. If following a non-collision event, a vehicle has a collision event; Area of Impact, Initial Contact Point is still coded **00 (Non-Collision)**.

Hitting the ground during a non-collision crash is not considered an “impact” for this subfield.

**Set-In-Motion Attributes:**

“Loads” of a vehicle includes persons or property upon or set-in-motion by the vehicle, persons boarding or alighting from the vehicle, and persons or property attached to and in position to move with the vehicle. A vehicle that propels part of its load or has set something in motion; striking another vehicle, person or property causing injury or damage; may not have a normal impact point; only the load has made contact with the person or other property. However, a value must be coded. **A load or object should not receive a Sequence of Events 63 (Ran Off Roadway-Right), 64 (Ran Off Roadway-Left), 65 (Cross Median), 68 (Cross Centerline) or 69 (Re-entering Roadway) because these events apply to the vehicle itself and not to the load or object that was propelled.**

**18 (Cargo/Vehicle Parts Set-In-Motion)** is selected when the harmful event involves an impact between a fixed/non-fixed object or vehicle and cargo or parts from an in-transport motor vehicle which are set-in-motion. That is, use this code when the object set-in-motion is cargo (e.g., mattress, logs, tools, unsecured objects on the in-transport motor vehicle) or a part of an in-transport motor vehicle (e.g., hubcap or mirror).

**Example:**

- Vehicle 1 (log truck) swerves to avoid a braking vehicle (Vehicle 2). A log becomes dislodged from Vehicle 1 and lands on Vehicle 2's top.
- Vehicle 1 Area of Impact, Initial Contact Point would be coded as **18 (Cargo/Vehicle Parts Set-In-Motion)**.
- Vehicle 2 Area of Impact, Initial Contact Point would be coded as **13 (Top)**.

**19 (Other Object Set-In-Motion)** is used when the harmful event involves an object set-in-motion by an in-transport motor vehicle which is NOT cargo or part of the in-transport motor vehicle (e.g., kicked-up stone, motorcycle rider, parked vehicle, stop sign) or it is UNKNOWN whether the object was the cargo or a part of an in-transport motor vehicle.

**Example:**

- Vehicle 1 kicks up a stone which impacts Vehicle 2's windshield.
- Vehicle 1 Area of Impact, Initial Contact Point would be coded as **19 (Other Object Set-In-Motion)**.
- Vehicle 2 Area of Impact, Initial Contact Point would be coded as 12 (Front).

**98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

**Code 98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**Areas of Impact - Initial Contact Point Examples of Not Reported:**

- The case materials lack the detail to identify the initial contact point at all (e.g., narrative only states the vehicle departed the roadway and impacted a tree).
- The case materials lack the detail to identify the initial contact point among a number of possible choices for the first harmful event for the vehicle (e.g., crash report field indicates front and right side damage from separate impacts and does not clarify which area is associated with the initial impact).

**99 (Unknown)** is used if the investigating officer reported that the Initial Contact Point was unknown.

## SEQUENCE OF EVENTS

**FORMAT:** (Completed in MDE)

**SAS NAME:** Cevent.SOE; Vevent.SOE

**ELEMENT VALUES:**

**Non-Harmful Events:**

- 61 Equipment Failure (blown tire, brake failure, etc.)
- 62 Separation of Units
- 63 Ran Off Roadway-Right
- 64 Ran Off Roadway-Left
- 79 Ran off Roadway - Direction Unknown**
- 71 End Departure
- 65 Cross Median
- 68 Cross Centerline
- 66 Downhill Runaway
- 67 Vehicle Went Airborne
- 69 Re-entering Roadway
- 70 Non-harmful, Swaying Trailer/Jackknife**
- 60 Cargo/Equipment Loss or Shift (non-harmful)

**Non-Collision Harmful Events:**

- 1 Rollover/Overtur
- 2 Fire/Explosion
- 3 Immersion or Partial Immersion
- 4 Gas Inhalation
- 51 Jackknife (harmful to this vehicle)
- 06 Injured in Vehicle (Non-Collision)
- 44 Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)
- 07 Other Non-Collision
- 72 Cargo/Equipment Loss or Shift (harmful to this vehicle)
- 16 Thrown or Falling Object
- 05 Fell/Jumped from Vehicle

**Collision with Motor Vehicle In-Transport:**

- 12 Motor Vehicle In-Transport
- 54 Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport
- 55 Motor Vehicle In Motion Outside the Trafficway

**Collision with Object Not Fixed:**

- 08 Pedestrian
- 09 Pedalcyclist
- 10 Railway Vehicle
- 11 Live Animal

- 49 Ridden Animal or Animal-Drawn Conveyance
- 18 Other Object (Not Fixed)
- 15 Non-Motorist on Personal Conveyance
- 14 Parked Motor Vehicle
- 45 Working Motor Vehicle
- 73 Object Fell From Motor Vehicle In-Transport

**Collision with Fixed Object:**

- 17 Boulder
- 19 Building
- 58 Ground
- 20 Impact Attenuator/Crash Cushion
- 50 Bridge Overhead Structure
- 21 Bridge Pier or Support
- 23 Bridge Rail (Includes Parapet)
- 24 Guardrail Face
- 52 Guardrail End
- 25 Concrete Traffic Barrier
- 57 Cable Barrier
- 26 Other Traffic Barrier
- 59 Traffic Sign Support
- 46 Traffic Signal Support
- 30 Utility Pole/Light Support
- 31 Other Post, Other Pole or Other Supports
- 32 Culvert
- 33 Curb
- 34 Ditch
- 35 Embankment
- 38 Fence
- 39 Wall
- 40 Fire Hydrant
- 41 Shrubbery
- 42 Tree (Standing Only)
- 48 Snow Bank
- 53 Mail Box
- 43 Other Fixed Object
- 99 Unknown

**Remarks:**

This data element is derived from the Crash Events Table. Recording of Crash Events ends at the last harmful event of the entire crash. Therefore, a non-harmful event (e.g., Crossing the Centerline) that occurs following the last harmful event of the crash will not be included. Correction to the Sequence Events order must be made by revision to the Crash Events Table.

**Non-Harmful Event:**

**61 (Equipment Failure)** (blown tire, brake failure, etc.) Examples of equipment failure include blown tires, brake failures, etc.

**62 (Separation of Unit)** is used when a trailing unit separates from its power unit or another trailing unit(s). This applies to truck tractors with trailer(s), single-unit trucks with a trailer and other vehicles pulling a trailer (e.g., car pulling a boat or motor home).

**63 (Ran Off Roadway-Right)** is used if the vehicle runs off the right side of the roadway. Identification of running off roadway can be determined from the case materials. This attribute can be used anytime in the event sequence before or after any harmful events. ***This attribute does not apply to the "load" in cases involving Areas of Impact 18 (Cargo/Vehicle Parts Set-In-Motion) or 19 (Other Objects Set-In-Motion).***

**64 (Ran Off Roadway-Left)** is used if the vehicle runs off the left side of the roadway. Identification of running off roadway can be determined from the case materials. This attribute can be used anytime in the event sequence before or after any harmful events. ***This attribute does not apply to the "load" in cases involving Areas of Impact 18 (Cargo/Vehicle Parts Set-In-Motion) or 19 (Other Objects Set-In-Motion).***

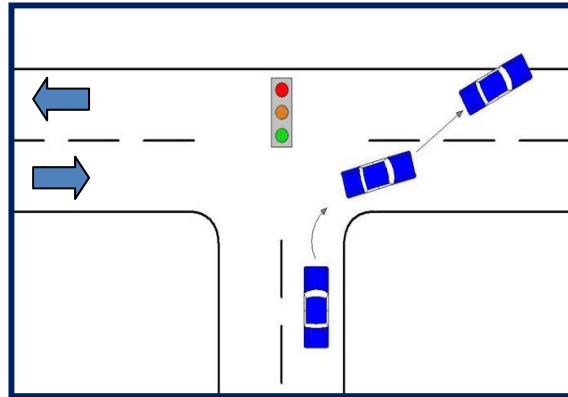
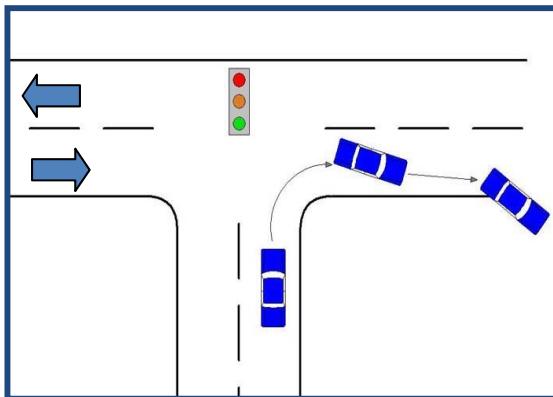
**79 (Ran off Roadway-Direction Unknown)** is used when it cannot be determined from the case materials and there are no witness statements available to determine whether a vehicle ran off the roadway right or left.

**Coding Guidelines for Running Off Roadway (Right or Left)****For Divided Highways:**

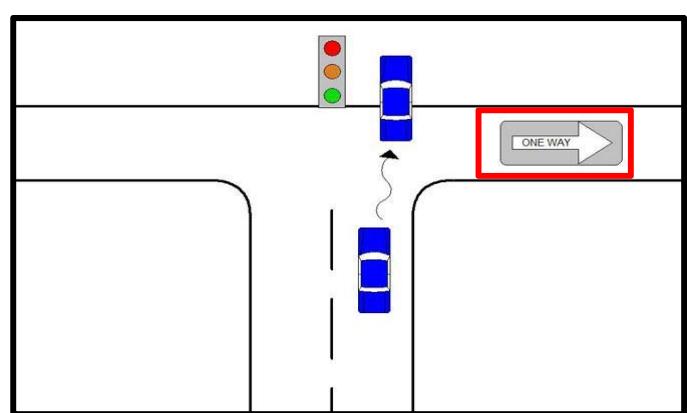
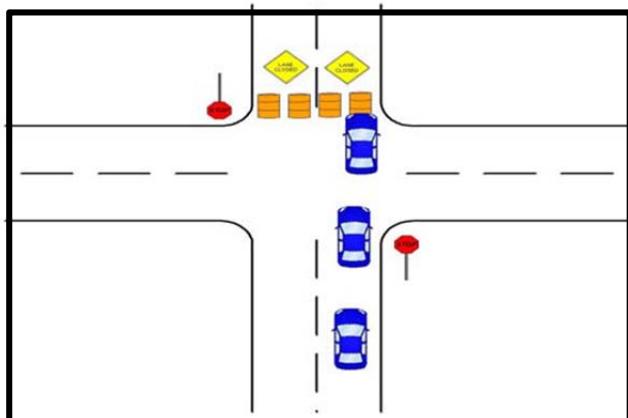
On a divided highway, a vehicle can run off the roadway by leaving the roadway and entering the median. When this occurs involving a vehicle on the correct side of a divided highway, the proper “Ran Off Roadway” attribute is always **64 (Ran Off Roadway - Left)**. **64 (Ran Off Roadway - Left)** will also apply in situations where the vehicle traverses the median and continues across the opposing roadway.

**For vehicles turning at “T-intersections”:**

For “T-intersections” when the vehicle loses control when in a turn, choose right or left based upon the direction of travel for the vehicle’s proper travel lane for their intended travel path. For vehicles traveling straight through “T-Intersections” use **71 (End Departure)**. See diagrams below.



**71 (End Departure)** is used if the vehicle leaves the roadway by traveling straight through the top of a “T-intersection” of a two-way trafficway or top of an intersecting one-way roadway. This code should also apply to vehicles traveling off the end of dead end roadways or into the barrier of a closed trafficway. See diagrams below.



**65 (Cross Median)** is used when a vehicle departs its roadway and traverses the median and enters the shoulder or travel lanes on the opposite side of a divided highway. ***This attribute does not apply to the "load" in cases involving Areas of Impact 18 (Cargo/Vehicle Parts Set-In-Motion) or 19 (Other Objects Set-In-Motion).***

**68 (Cross Centerline)** is used when a vehicle crosses over the centerline of a two-way, undivided highway. The centerline must be delineated with paint or raised markers. ***This is also used for unstabilized situations involving vehicles that depart from their initial travel lane(s) and enter the continuous left-turn lane, having a harmful event that is located within the marked boundaries of the continuous left-turn lane. This attribute also applies to vehicles that traverse the continuous left-turn lane area, having a harmful event that is located in the opposing travel lane(s). This attribute does not apply to the "load" in cases involving Areas of Impact 18 (Cargo/Vehicle Parts Set-In-Motion) or 19 (Other Objects Set-In-Motion).***

**66 (Downhill Runaway)** refers to any vehicle that cannot decelerate on a downhill grade.

**67 (Vehicle Went Airborne)** must only be used if the officer indicates by narrative or diagram that the vehicle left the ground (excludes vehicles going airborne during a rollover event). Examples: the vehicle drove off a cliff, the vehicle was launched into the air after striking another vehicle or after traversing a berm.

**69 (Re-entering Roadway)** is used when a vehicle that departed the roadway portion of the trafficway returns to the same roadway (e.g., a motor vehicle in transport runs off the roadway right, strikes the guardrail face, then re-enters the roadway and collides with another motor vehicle in transport). ***This attribute does not apply to the "load" in cases involving Areas of Impact 18 (Cargo/Vehicle Parts Set-In-Motion) or 19 (Other Objects Set-In-Motion).***

**70 (Non-harmful, Swaying Trailer/Jackknife)** applies to a condition that occurs to an articulated vehicle, (any vehicle with a trailing unit(s) connected by a hitch; e.g., truck tractor or single-unit truck with one or more trailers, articulated bus, car pulling a boat on a trailer, etc.) while in motion. The condition reflects a loss of control of the vehicle by the driver in which the trailer(s) yaws from its normal straight-line path behind the power unit.

**60 (Cargo/Equipment Loss or Shift [non-harmful])** refers specifically to the loss or shift of items carried on or in a motor vehicle or its trailing unit, and not to the vehicle or trailing unit, itself. This attribute should never be used:

1. to refer to a “collision” event (see **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)**)
2. to a harmful event related to the loss or shift of cargo in/on a vehicle causing damage to that vehicle, its cargo, or injury to its occupants (see **72 (Cargo/Equipment Loss or Shift [harmful to this vehicle])**).

Example:

A load of logs on a tractor semi-trailer shifts as the truck rounds a curve resulting in an overturn.

Non-Collision events involving motorcycles and vehicles with a “load”:

Non-Collision events may occur before or after a collision event. They should not be coded as a separate event if they occur as part of a collision event.

Examples:

- A motorcycle strikes a deer, overturns and the rider becomes separated from the vehicle. Code the collision event, not the non-collision “Rollover/Overtur” and “Vehicle Occupant Fell from Vehicle” that occur as part of the collision event.

- One tractor/trailer rear-ends another tractor/trailer. The impact pushes the lead vehicle's load into the back of the tractor cab with part falling onto the roadway. Code the collision event, not the non-collision "cargo-loss or shift" that occurred as part of the collision event.

**1 (Rollover/OverturN)** is used when a motor vehicle rotates (rollover) at least one quarter turn onto its side or end.

**NOTES regarding 01 (Rollover/OverturN):**

- For motorcycles, laying the motorcycle down on its side is sufficient to use attribute **01 (Rollover/OverturN)** as a harmful event if damage or injury is produced, even though the data element Rollover is not applicable to motorcycles.
- **58 (Ground)** is not to be entered when the harmful event is **01 (Rollover/OverturN)**.
- A vehicle rolls over 3 quarter turns. This is one rollover event involving 3 quarter turns.
- If there is a **01 (Rollover/OverturN)** that begins in another location but involves a ditch or embankment in the case (e.g., "rolled through the ditch", "rolled down the embankment", "came to rest against the embankment"), then the rule applies where if there is no damage associated with an impact with the fixed object during the rollover, it is not included in the Crash Events. If there is indication that damage resulted from an impact with the fixed object, it is included in the Crash Events. This follows the same logic as striking a tree or another vehicle during an overturn.
- For a vehicle that rolls over, impacts a fence and continues to rollover. Only two events would be coded for that circumstance. The first event would be the rollover followed by an impact with the fence. In order for more than one rollover event to appear in a vehicles sequence of events, the vehicle must return to its wheels, and track for a period of time before experiencing a separate rollover event. This would be a rare occurrence and must be clearly identified in the case materials.

**Note:** For medium/heavy trucks with attached trailers by fixed linkage, when either the power unit or the trailer rolls over, the entire vehicle will be considered a rollover.

**GES SPECIAL INSTRUCTION:**

For articulated light vehicles, that are not commercial do not code a **Rollover/OverturN** if only the trailer portion of the combination overturns.

**2 (Fire/Explosion)** is used for a vehicle fire or explosion that occurs during the crash sequence or as a result of the crash.

As it pertains to the occurrence of **02 (Fire/Explosion)**, the crash circumstances are not considered stabilized until the threat of damage to this vehicle, or injury consequences to this vehicle's occupants, has ceased. Therefore, the crash sequence is not considered stabilized until all occupants have exited the vehicle and the scene has been declared safe by police or other authority. Fires that occur at a later time to vehicles abandoned at the scene (e.g., in open fields, on hillsides, etc.) or to vehicles removed from the scene to another location (tow yard, curbside, etc.) are not considered part of the crash sequence.

**3 (Immersion or Partial Immersion)** is used when an in-transport motor vehicle enters a body of water and results in injury or damage. This code would also be used if the vehicle came to rest in water and the depth cannot be ascertained from case materials. NOTE: In immersion fatalities the injury to the person may be noted as "drowning".

**4 (Gas Inhalation)** includes injury or death as a result of toxic fumes, such as carbon monoxide fumes leaking from a motor vehicle in-transport.

**51 (Jackknife [harmful to this vehicle])** applies to a condition that occurs to an articulated vehicle, (any vehicle with a trailing unit(s) connected by a hitch; e.g., truck tractor or single-unit truck with one or more trailers, articulated bus, car pulling a boat on a trailer, etc.) while in motion. The condition reflects a loss of control of the vehicle by the driver in which the trailer(s) yaws from its normal straight-line path behind the power unit, striking the power unit, causing damage to the power unit or trailer. Jackknife should only be coded as a harmful event if there is clear indication of damage to the jackknifed vehicle or injury to its occupants caused by the jackknife.

**06 (Injured in Vehicle [Non-Collision])** is used when an occupant is injured during an unstabilized situation without a collision, excluding cargo/equipment loss or shift. Examples: Driver slams on brake, causing an unrestrained passenger to be injured. Driver makes a sharp turn causing driver to strike head on side window, knocking driver unconscious.

**44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.])** is used when the pavement surface irregularity is on a roadway. If the impact is with a surface irregularity (e.g. ruts, potholes) not on a roadway use the **58 (Ground)**.

**07 (Other Non-Collision).** Non-collision not captured in the listed non-collision attributes.

Example:

Damage to the vehicle produced by its own dislodged vehicle parts (including hood flying up and contacting the windshield).

**16 (Thrown or Falling Object)** is used when any object (1) is thrown (intentionally or unintentionally) and impacts an in-transport vehicle, or (2) falls onto, into, or in the path of an in-transport motor vehicle. If a tree limb falls from a tree and is contacted by a car, enter **16 (Thrown or Falling Object)**. If a person maliciously throws an object off an overpass into traffic below, enter **16 (Thrown or Falling Object)**. This excludes contacts made by loads or objects set in-motion by a motor vehicle (see **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)**).

**72 (Cargo/Equipment Loss or Shift [harmful to this vehicle])** refers specifically to the loss or shift of items carried on or in a motor vehicle or its trailing unit, and not to the vehicle or trailing unit, itself. This attribute is only used when the injury- or damage-producing event in the crash is the loss or shift of cargo in/on a vehicle causing damage to that vehicle, its cargo, or injury to its occupants. This attribute should never be used to refer to a "collision" event

(see **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)**)

Example:

A pickup truck brakes rapidly to avoid a collision. This causes a piece of lumber in the pickup bed to smash through the rear window.

**05 (Fell/Jumped from Vehicle)** is used when an occupant of this vehicle falls or jumps (not suicide) from the vehicle causing injury. For example, an occupant of a motor vehicle in-transport leans against the car door, it opens and the occupant falls out; or a person riding on a vehicle's exterior (hood, roof, running board, etc.) falls or jumps, and is injured by the fall. If an occupant falls or jumps from a vehicle and is struck by that vehicle, use this attribute.

**12 (Motor Vehicle In-Transport)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact within the trafficway boundaries. In-transport means that the motor vehicle is in-motion or on the roadway portion of a trafficway.

**54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact by something set-in-motion by one of the vehicles. In these circumstances, both vehicles should have this attribute in their Sequence of Events. In crashes involving harmful events caused by objects set-in-motion by a Motor Vehicle in-transport, remember that a vehicle's load is considered part of the vehicle.

Examples:

1. If cargo falls from a truck (in-transport) and strikes another motor vehicle in-transport, this is treated as a two-vehicle crash. Therefore, the proper code for both vehicles is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)**.
2. If cargo falls from a truck (in-transport) and strikes another vehicle that is not in-transport, this is also treated as a two-vehicle crash; however in this example, the proper attribute is **14 (Parked Motor Vehicle)** or **45 (Working Motor Vehicle)** depending on which type of not in-transport vehicle was contacted by the load.
3. If cargo falls from a truck (in-transport) and strikes a pedestrian, the proper attribute would be **08 (Pedestrian)**.

**55 (Motor Vehicle In Motion Outside the Trafficway)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact outside the trafficway boundaries in a motor vehicle traffic crash.

Example:

A vehicle loses control attempting to turn into a gas station and strikes another vehicle pulling away from the pump in the station lot.

**8 (Pedestrian)** is used for all those not on a personal conveyance. A person pushing a vehicle should be coded **08 (Pedestrian)**. A person being carried by another person should also be considered a **08 (Pedestrian)**.

**9 (Pedalcyclist)** is used for any person on a non-motorized other road vehicle propelled by pedaling. Examples include a bicycle, tricycle, unicycle or pedal car.

**10 (Railway Vehicle)** is any land vehicle that is (1) designed primarily for, or in use for, moving persons or property from one place to another on rails and (2) not in use on a land way other than a railway.

Inclusions:

- Street car on private way

Exclusions:

- Street car operating on trafficway

**11 (Live Animal)** is used for collisions with live animals (domesticated or wild) that are not themselves being used as transportation or to draw a wagon, cart or other transport device (see ANSI D16.1). Default to **11 (Live Animal)** if it cannot be determined if the struck animal is alive, dead or if it was being ridden or drawing a transport device.

Use **49 (Ridden Animal or Animal-Drawn Conveyance)** for ridden animals and animals drawing transport devices. See **18 (Other Object [Not Fixed])** for an animal carcass lying in the roadway.

**18 (Other Object [Not Fixed])** is used when a motor vehicle in-transport strikes a non-fixed object that is known NOT to have been the cargo or part of another motor vehicle in-transport or when it is UNKNOWN whether the object was the cargo or part of another motor vehicle in-transport (i.e., refers to objects such as a dead body, animal carcass, construction cones or barrels, an unattached trailer, a bicycle without a rider or downed tree limbs or power lines.). For objects that have become separated from a motor vehicle in-transport, use attribute **73 (Objects Fell from Motor Vehicle In-Transport)**.

**15 (Non-Motorist on Personal Conveyance)** is used for pedestrians using personal conveyances. A personal conveyance is a device, other than a transport device, used by a pedestrian for personal mobility assistance or recreation. These devices can be motorized or human powered, but not propelled by pedaling.

Inclusions:

- 1) Rideable toys
  - Roller Skates, in-line skates
  - Skateboards
  - Skates
  - Baby carriage
  - Scooters
  - Toy Wagons

- 2) Motorized rideable toys
  - Motorized skateboard
  - Motorized toy car

3) Devices for personal mobility assistance

- Segway-style devices
- Motorized and non-motorized wheelchair
- Handicapped scooters

Exclusions:

- Golf cart
- Low Speed Vehicles (LSVs)
- Go-carts
- Minibike
- "Pocket" motorcycles
- Motor scooters
- Moped

**14 (Parked Motor Vehicle)** is used when the impact occurred between a motor vehicle in-transport and a motor vehicle neither on a roadway nor in motion. A vehicle stopped off the roadway, its door open over a roadway, is not in-transport.

**45 (Working Motor Vehicle)** is used to indicate the motor vehicle contacted was in the act of performing construction, maintenance or utility work related to the trafficway when it became an involved unit. This "work" may be located within open or closed portions of the trafficway and motor vehicles performing these activities can be within or outside the trafficway boundaries. This code does not include private construction/maintenance vehicles, or vehicles such as garbage trucks, delivery trucks, taxis, emergency vehicles, tow trucks, etc.

**Examples:**

1. Asphalt/steam roller working in a highway construction zone paving the roadway or flattening dirt.
2. State highway maintenance crew painting lane lines on the road, mowing grass on the roadside or median, repairing potholes, removing debris from the roadway, etc.
3. Utility truck or a "cherry picker", performing maintenance on power lines along the roadway or maintaining a traffic signal.
4. A private excavating company contracted by the State digging the foundation for a new overpass.
5. A state, county, or privately owned snow plow, plowing ice/snow as part of a highway maintenance activity.
6. Street sweeper sweeping the street.
7. A vehicle in a mobile work convoy displaying arrow boards or other signaling devices warning motorists of the work activity.
8. A law enforcement vehicle which is participating strictly in a stationary construction or mobile maintenance activity as a traffic slowing, control, signaling or calming influence.

**FARS SPECIAL INSTRUCTION:**

**NOTE:** Before 2004, this code was called **Transport Device Used as Equipment**. It included other working activities in addition to construction, maintenance and utility work on trafficways. From 2004 forward, code "45" excludes working activities other than highway construction, maintenance or utility vehicles (e.g., garbage truck picking up trash, mail/delivery trucks while making deliveries, personal vehicles plowing snow, etc. These are considered motor vehicles In-transport). Use Related Factors-Vehicle Level code **42 (Other Working Vehicle [Not Construction, Maintenance, Utility, Police, Fire, or EMS Vehicle])** to identify these vehicles.

A question may arise when a police, fire or emergency medical vehicle is struck on the roadway while at the scene of a crash, at a traffic stop, or as traffic control. The question becomes, "has its function changed from being a motor vehicle in-transport to a working vehicle?" The answer is "no." Treat these situations as a motor vehicle in-transport striking another motor vehicle in-transport. Use Related Factors-Vehicle Level code **41 (Police, Fire, or EMS Vehicle Working at the Scene of an Emergency or Performing Other Traffic Control Activities)** to identify that this vehicle was struck while performing these work activities.

**73 (Object Fell From Motor Vehicle In-Transport)** is used when a motor vehicle in- transport impacts a non-fixed object at rest that is known to have been the cargo or part of another motor vehicle in-transport.

**Collision with Fixed Object:**

The attributes **58 (Ground)**, **33 (Curb)**, **34 (Ditch)** and **35 (Embankment)** are grouped under the Collision with Fixed Object subset because they are intended to be harmful events in the crash (i.e. – they are associated with an impact that produces injury or damage).

***When coding these events there must be fields on the PAR or verbiage in the narrative such as "struck", "hit", "impacted", etc. that identify these as harmful.***

***For cases where the indication of the harmful event came from the narrative, there may not be a corresponding indication of damage in any PAR field. In these instances code the harmful event as stated in the narrative and include the corresponding attribute under Areas of Impact.***

If there is no indication of damage from contact with the fixed object ***in fields on the PAR and the narrative language does not identify it as a harmful event*** (e.g., “came to rest on the embankment” ***or "drove through" or "drove across" the ditch and/or the embankment, or "drove over" the curb do not code 33 (Curb), 34 (Ditch) or 35 (Embankment) in the Sequence of Events.***

**Guidelines for PAR Combination Attributes**

***If there is no clarification in the case materials, default to the first attribute listed in the combination. For example, if a PAR attribute identifies "Earth Embankment/Rockcut /Ditch", code "Embankment" unless the narrative clearly indicates one of the other attributes (e.g. "rockcut" or "ditch").***

**17 (Boulder)** is a rock of sufficient mass that when struck by a motor vehicle moves very little and remains basically intact.

**19 (Building)** is used when the vehicle impacts a roofed and walled structure built for permanent use. The type of construction material used is not of interest, nor is the use of the building.

**58 (Ground)** is used when the impact is with an earthen or paved surface off of the roadway. **58 (Ground)** is not to be entered when the harmful event is **01 (Rollover/Overtake)**.

**20 (Impact Attenuator/Crash Cushion)** is a device for controlling the absorption of energy released during vehicle collision (crash cushion). Its most common application involves the protection of fixed roadside objects such as bridge piers, elevated gores at exit ramps, etc. Examples include barrels filled with water or sand, and plastic collapsible structures.

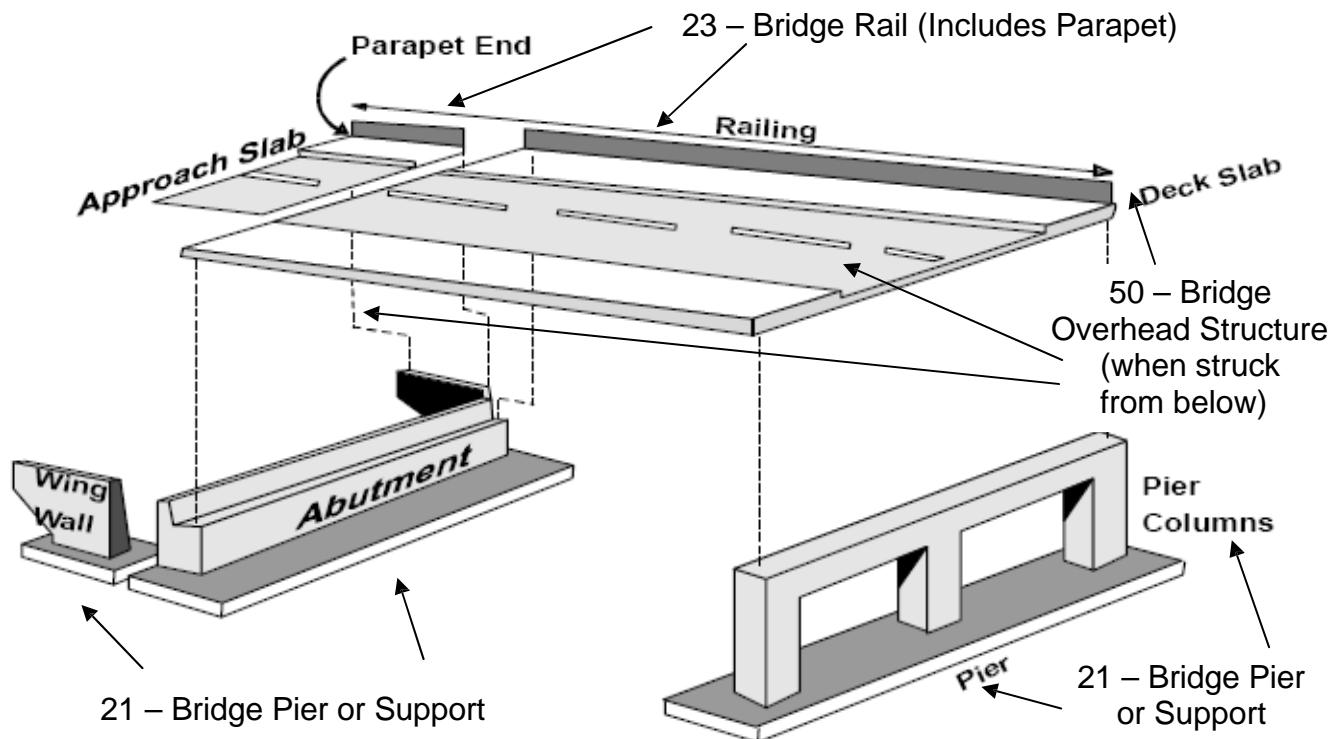
**50 (Bridge Overhead Structure)** is used when striking the bottom of a bridge while traveling on a trafficway underneath it.

**21 (Bridge Pier or Support)** is a square or round column of stone, concrete, brick, steel or wood for supporting a bridge between abutments. This attribute includes the bridge abutments which are supporting the ends of a bridge. Abutments are generally designed for retaining or supporting the embankment under bridge ends and composed of stone, concrete, brick or wood (includes the wing-walls).

**23 (Bridge Rail [Includes Parapet])** is a wooden, brick, stone, concrete or metal fence-like structure which runs along the outermost edge of the roadway or sidewalk on the bridge or a rail constructed along the top of a parapet. Balustrade is often used synonymously with parapet.

- Bridges do not need to support another roadway. It may be an overpass for a train or even for a viaduct (water conduit).

## BRIDGE COMPONENTS



**24 (Guardrail Face)** is a low barrier that has the primary longitudinal structure composed of metal (plates, mesh, box beam, etc.). A guardrail is differentiated from **25 (Concrete Traffic Barrier)** by the material making up the greatest part of the longitudinal portion of the structure. In the case of guardrails, this is metal whereas in concrete barriers this is concrete (including

concrete rails). If the crash report does not differentiate between guardrail face and end, default to guardrail face.

Guardrails, which serve as bridge rails, should be coded as **23 (Bridge Rail [Includes Parapet])**.

**52 (Guardrail End)** is coded if a vehicle strikes the end of a guardrail. Guardrails can have a separate flat or rounded piece of metal attached to the end of an expanse of guardrail face.

**25 (Concrete Traffic Barrier)** refers to the longitudinal traffic barriers constructed of concrete. This includes all temporary concrete barriers regardless of location (i.e., temporary Jersey Barrier on a bridge being used to control traffic during bridge repair/construction). Concrete walls (vertical side surfaces) do not apply here; see **39 (Wall)**.

**57 (Cable Barrier)** refers to a flexible barrier system which uses several cables typically supported by steel posts. These barriers are designed to help lessen impact or keep vehicles within the confines of the road.

**26 (Other Traffic Barrier)** is used for all other longitudinal barriers such as wood or rock and unknown barrier composition type.

**59 (Traffic Sign Support)** is used when the post supporting a traffic sign, or the sign itself, is hit by a motor vehicle in-transport. This includes mile marker posts and signs above the trafficway.

**46 (Traffic Signal Support)** is used when the post supporting a traffic signal, or the signal itself, is hit by a motor vehicle in-transport.

**30 (Utility Pole/Light Support)** refers to supports for highway lighting systems, not including other private lighting systems (e.g., parking lot lights). **30 (Utility Pole/Light Support)** is used for electrical, telephone, cable & other utility pole-type supports.

**31 (Other Post, Other Pole or Other Supports)** is used for posts other than highway signs. (e.g., reflectors on poles along side of roadway, parking meters, flag poles, etc.). For mail box posts, use **53 (Mail Box)**.

**32 (Culvert)** is a man-made drain or channel crossing under a road, sidewalk, etc.

**33 (Curb)** is a concrete or asphalt structure that borders the roadway. It provides drainage control and pavement edge delineation. The face of the curb may be sloped or vertical. Ensure that the PAR provides some indication that damage has occurred when a vehicle strikes a curb. *This attribute includes collisions with curbing that forms raised islands, medians, or separators. For example, if the report identifies the vehicle struck/collided with a traffic island, channelizing island, raised median or separator use 33 (Curb) not 43 (Other Fixed Object).*

**34 (Ditch)** includes any man-made structure for drainage purposes. A ditch ends where a culvert begins and resumes on the opposite side of the culvert. Reference to a “ditchbank”, “embankment of the ditch”, or “ditch embankment” should be coded under **34 (Ditch)**.

**35 (Embankment)** is a raised structure to hold back water, to carry a roadway or the result of excavation or washout (including erosion) which may be faced with earth (or rock, stone or concrete). A **35 (Embankment)** can usually be differentiated from a **39 (Wall)** by its incline whereas a wall is usually vertical. However, there are exceptions to this; such as a retaining wall that may be inclined or a vertical embankment that is caused by a natural event such as a washout.

In crashes involving a field approach or crossing, if in doubt about when to use **32 (Culvert)**, **34 (Ditch)** or **35 (Embankment)** use the following criteria:

- a. Use **34 (Ditch)** if the driver would not have been able to recover from the ditch even if there had been no field approach (crossing).
- b. Use **35 (Embankment)** if the driver would have been able to recover from the ditch, but struck the field approach (crossing) prior to doing so.
- c. Use **35 (Embankment)** if it is not known whether or not the driver would have been able to recover from the ditch and a field approach (crossing) is involved.
- d. Use **32 (Culvert)** if it is specifically indicated that the vehicle struck a culvert in the field approach.

**38 (Fence)** includes the fence posts. A Fence can be made of wood, chain link, stone, etc

**39 (Wall)** is a primarily vertical structure composed of concrete, metal, timber or stone which is not part of a building or a fence but typically is used for retaining earth, abating noise, and separating areas (but not for containment as in the primary function of a fence). Also included as a **39 (Wall)** are headwalls (or endwalls) that are sometimes provided on culvert ends principally to protect the sides of the embankment around the culvert opening against erosion. This does not include wing-walls, which are attached to ends of bridge abutments and extend back at an angle from the roadway. Wingwalls should be coded as **21 (Bridge Pier or Support)**.

**40 (Fire Hydrant)** refers to the roadside device used by fire departments to provide water for fighting fires. Usually made of steel, these devices are also referred to as fire plugs or fire stand pipes in some areas.

**41 (Shrubbery)** refers to vegetation which is usually of a woody multi-stemmed variety and in most instances is low growing rather than tall. May also be called bushes. Some common examples are boxwood, hawthorn and mountain laurel.

**42 (Tree [Standing Only])** is used when a vehicle strikes a standing tree. This includes impacts from overhanging branches or tree stumps. If a vehicle strikes a tree lying in the roadway, use **18 (Other Object [Not Fixed])**. If a tree falls on a vehicle as it is passing by, use **16 (Thrown or Falling Object)**.

**48 (Snow Bank)** is used when snowfall and/or road plowing creates essentially fixed barriers of snow/ice which are not snow-covered earth or rock embankments.

**53 (Mail Box)** refers to a private residence mail/newspaper box including the post. A cluster of private mailboxes is included in this attribute. This element does not include U.S. Mailbox, which are typically blue and are for general public use. Code a U.S. Mailbox as **43 (Other Fixed Object)**.

**43 (Other Fixed Object)** is used when the object is fixed (considered a permanent structure) and is not described by any of the other fixed object attributes. ***This attribute excludes collisions with curbing that forms raised islands, medians, or separators (See also 33 (Curb).)***

Examples:

- Bus shelters
- Pedestrian walkways
- Toll booths
- Guy wires supporting utility poles
- U. S. Mailbox for public use

Other examples would include property damage to standing crops, yards and other vegetation (excluding: **41 (Shrubbery)**, **42 (Tree [Standing Only])**, and **58 (Ground)**) if noted on the crash report.

**99 (Unknown)** is used when police indicate unknown.

Consistency Checks:

IF	THEN
(A042) <b>CRASH EVENTS-SEQUENCE OF EVENTS</b> equals 17, 19-21, 23-26, 30-35, 38-43, 52, 53, 57 for a vehicle,	<i>at least one previous CRASH EVENTS-SEQUENCE OF EVENTS should equal 63, 64, 71 or 79 for that vehicle.</i>

## VEHICLE NUMBER (OTHER VEHICLE)

**FORMAT:** (Completed in MDE)

**SAS NAME:** Cevent.VNUMBER2; Vevent.VNUMBER2

**ELEMENT VALUES:**

001-999 Actual Number

**Remarks:**

This identifies the vehicle number of the vehicle contacted by the motor vehicle in-transport recorded in “Vehicle Number (This Vehicle).” This field is applicable only when the event is a collision between two motor vehicles (i.e., Sequence of Events codes 12, 54, 55, 14 or 45). If the event is not a collision between two motor vehicles, then Vehicle Number (Other Vehicle) is not applicable and left blank.

## **AREAS OF IMPACT (OTHER VEHICLE)**

**FORMAT:** (Completed in MDE)

**SAS NAME:** Cevent.AOI2; Vevent.AOI2

**ELEMENT VALUES:**

00	Non-Collision
01-12	Clock Points
13	Top
14	Undercarriage
61	Left
62	Left-Front Side
63	Left-Back Side
81	Right
82	Right-Front Side
83	Right-Back Side
18	Cargo/Vehicle Parts Set-In-Motion
19	Other Objects Set-In-Motion
98	Not Reported
99	Unknown

**Remarks:**

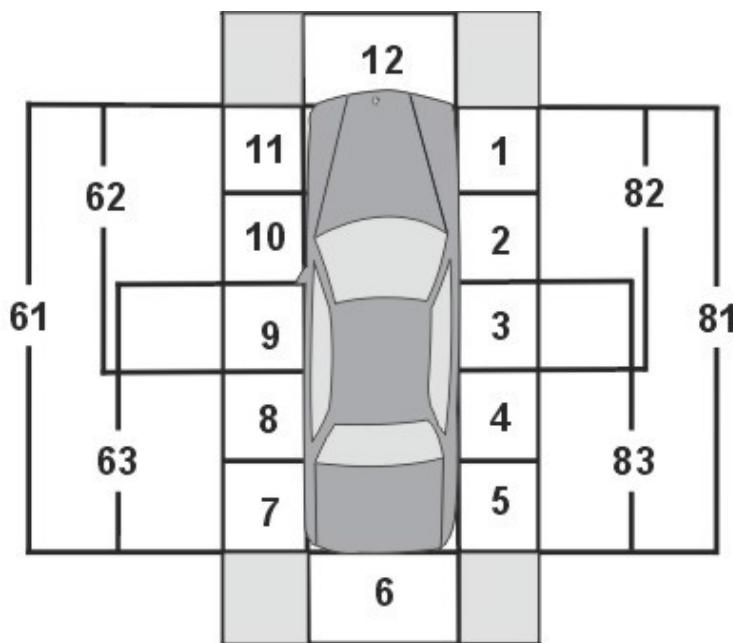
If Areas of Impact- Initial Contact Point / Damaged Areas are provided on the crash report in this exact format, use the values from the report unless there are clear errors (e.g. officer switches vehicles by mistake). If these elements are not provided on the crash report in this exact format, then similar report fields, narrative or diagram information may be used to code these elements. These subfields do not refer to direction of force of the impact. They identify the area(s) on the vehicle associated with the initial contact (Subfield 1) and all damage to the vehicle identified in the case material (Subfield 2).

### Areas of Impact / Initial Contact Point (Subfield 1):

This subfield identifies the area on this vehicle that produced the first instance of injury to non-motorists or occupants of this vehicle, or that resulted in the first instance of damage to other property or to this vehicle. The event that produced the Initial Contact Point for this vehicle may or may not be the first harmful event for the crash. This data is derived from the Crash Events Table and will always be the first recorded Area(s) of Impact element value for each vehicle in the Crash Events Table.

\*Note the same element values from Areas of Impact – Initial Contact Point are used to complete the Areas of Impact (AOI) fields in the Crash Events Table for all harmful events.

### Areas of Impact-Initial Contact Point Element Values Diagram



### 00 (Non Collision [Initial Contact Point])

If the first harmful event involving this vehicle in the Crash Events Table is a non-collision event then Initial Contact Point will be **00 (Non-Collision)**.

“01-12” refer to the points on a clock. The sides of the vehicle are divided into 5 equal segments, 01 through 05 for the right side and 07 through 11 for the left side. The front (12), back (06), top (13) and undercarriage (14) complete the outside surfaces of the vehicle. Use the diagrams at the end of the element for examples of how the 5 equal side segments are created on several vehicle types.

As procedure, start by looking for one of the “clock” values 01-12 or specific situation values 00, 13, 14, 18. If sufficient detail is not available to choose one of these values, move out to

the next set of values to try to identify the appropriate codes (i.e., **62-63**, **82-83**, then **61**, **81**). Lastly, for missing information pertaining to known harmful events, a **98 (Not Reported)** attribute is available.

### **61-63 and 81-83:**

Codes, 62-63 and 82-83 are used when there is not sufficient detail available in the case materials to identify a more specific area of impact , 01-05 and 07-11, but one of the quadrants can be identified (i.e., **62 (Left-Front Side)** , **63 (Left-Back Side)**, **82 (Right-Front Side)** or **83 (Right-Back Side)**). Also use these attributes if the case materials indicate that the damage area is “between” or overlapping two known clock points. (e.g., if the damage area is midway between or overlapping clock points 10 and 11, use **62 (Left-Front Side)**). Codes 61 and 81 are used when there is not sufficient detail available in the case materials to identify a more specific area of impact, 62-63 or 82-83, but one of the sides can be identified (i.e., **61 (Left)** or **81 (Right)**).

### **Guideline for Resolving Ambiguous Information**

If the language in the narrative is ambiguous **AND** the diagram or other case information don’t provide resolution, use the area indicated first in the narrative wording to select the Area of Impact to code. See examples table below.

Description	Coding
Front, left	12
Left, front	62
Front, corner	12
Right, rear	83
Back, right side	06

It is important to note that area of impact refers mainly to the area of the vehicle that sustained the damage and does not depend upon the attitude of the vehicle (e.g., damage to a grille is still damage at 12 o-clock even if it was caused by sliding sideways past a utility pole).

However, **13 (Top)** may raise questions. The front and rear windows of some vehicles may also be viewed from the top. It may also be difficult to code impacts to the hood and rear deck of a vehicle.

With **13 (Top)** the direction of force sometimes has to be considered. The following are guidelines for using **13 (Top)**.

1. If the area was damaged by an impact that was received horizontally to an upright vehicle, use one of the codes “01 to 12, 61-63, 81-83.”
2. If the area was damaged by an impact that was received from a vertical direction above the upright vehicle, use **13 (Top)**.

3. If the impact was received or direction of force was at an angle of less than 15 degrees above the horizontal, it is considered horizontal.
4. With a vehicle in other than upright attitudes, remember, it is the area of the vehicle which was damaged that is important.

**14 (Undercarriage)** refers to impacts to the tires/wheels, axles, exhaust system, etc.

#### **Special Instructions Involving Motorcycles:**

For cases involving a motorcycle where the area of initial contact is described as “front tire/wheel” or “front end” code as **12 (Front)** or “rear tire/wheel” or “rear end” code as **06 (Back)** if the impact was received on a horizontal plane.

If the only event for a vehicle is a non-collision event, the Area of Impact - Initial is coded **00 (Non-Collision)**. If following a non-collision event, a vehicle has a collision event; Area of Impact, Initial Contact Point is still coded **00 (Non-Collision)**.

Hitting the ground during a non-collision crash is not considered an “impact” for this subfield.

#### **Set-In-Motion Attributes:**

“Loads” of a vehicle includes persons or property upon or set-in-motion by the vehicle, persons boarding or alighting from the vehicle, and persons or property attached to and in position to move with the vehicle. A vehicle that propels part of its load or has set something in motion; striking another vehicle, person or property causing injury or damage; may not have a normal impact point; only the load has made contact with the person or other property. However, a value must be coded. **A load or object should not receive a Sequence of Events 63 (Ran Off Roadway-Right), 64 (Ran Off Roadway-Left), 65 (Cross Median), 68 (Cross Centerline) or 69 (Re-entering Roadway) because these events apply to the vehicle itself and not to the load or object that was propelled.**

**18 (Cargo/Vehicle Parts Set-In-Motion)** is selected when the harmful event involves an impact between a fixed/non-fixed object or vehicle and cargo or parts from an in-transport motor vehicle which are set-in-motion. That is, use this code when the object set-in-motion is cargo (e.g., mattress, logs, tools, unsecured objects on the in-transport motor vehicle) or a part of an in-transport motor vehicle (e.g., hubcap or mirror).

#### **Example:**

- Vehicle 1 (log truck) swerves to avoid a braking vehicle (Vehicle 2). A log becomes dislodged from Vehicle 1 and lands on Vehicle 2's top.
- Vehicle 1 Area of Impact, Initial Contact Point would be coded as **18 (Cargo/Vehicle Parts Set-In-Motion)**.
- Vehicle 2 Area of Impact, Initial Contact Point would be coded as **13 (Top)**.

**19 (Other Object Set-In-Motion)** is used when the harmful event involves an object

set-in-motion by an in-transport motor vehicle which is NOT cargo or part of the in-transport motor vehicle (e.g., kicked-up stone, motorcycle rider, parked vehicle, stop sign) or it is UNKNOWN whether the object was the cargo or a part of an in-transport motor vehicle.

Example:

- Vehicle 1 kicks up a stone which impacts Vehicle 2's windshield.
- Vehicle 1 Area of Impact, Initial Contact Point would be coded as **19 (Other Object Set-In-Motion)**.
- Vehicle 2 Area of Impact, Initial Contact Point would be coded as 12 (Front).

**98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

**Code 98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**Areas of Impact - Initial Contact Point Examples of Not Reported:**

- The case materials lack the detail to identify the initial contact point at all (e.g., narrative only states the vehicle departed the roadway and impacted a tree).
- The case materials lack the detail to identify the initial contact point among a number of possible choices for the first harmful event for the vehicle (e.g., crash report field indicates front and right side damage from separate impacts and does not clarify which area is associated with the initial impact).

**99 (Unknown)** is used if the investigating officer reported that the Initial Contact Point was unknown.

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## **FIRST HARMFUL EVENT**

**FORMAT:** 2 numeric

**SAS NAME:** Accident.HARM\_EV; Vehicle.HARM\_EV; Person.HARM\_EV;  
parkwork.PHARM\_EV

**ELEMENT VALUES:**

**Non-Collision Harmful Events:**

- 1 Rollover/Overtur
- 2 Fire/Explosion
- 3 Immersion or Partial Immersion
- 4 Gas Inhalation
- 51 Jackknife (harmful to this vehicle)
- 06 Injured in Vehicle (Non-Collision)
- 44 Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)
- 07 Other Non-Collision
- 16 Thrown or Falling Object
- 72 Cargo/Equipment Loss or Shift (harmful to this vehicle)
- 05 Fell/Jumped from Vehicle

**Collision with Motor Vehicle In-Transport:**

- 12 Motor Vehicle In-Transport
- 54 Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport
- 55 Motor Vehicle In Motion Outside the Trafficway

**Collision with Object Not Fixed:**

- 8 Pedestrian
- 9 Pedalcyclist
- 10 Railway Vehicle
- 11 Live Animal
- 49 Ridden Animal or Animal Drawn Conveyance
- 18 Other Object (Not Fixed)
- 15 Non-Motorist on Personal Conveyance
- 14 Parked Motor Vehicle
- 45 Working Motor Vehicle
- 73 Object Fell From Motor Vehicle In-Transport

**Collision with Fixed Object:**

- 17 Boulder
- 19 Building
- 58 Ground
- 20 Impact Attenuator/Crash Cushion

50	Bridge Overhead Structure
21	Bridge Pier or Support
23	Bridge Rail (Includes Parapet)
24	Guardrail Face
52	Guardrail End
25	Concrete Traffic Barrier
57	Cable Barrier
26	Other Traffic Barrier
59	Traffic Sign Support
46	Traffic Signal Support
30	Utility Pole/Light Support
31	Other Post, Other Pole or Other Supports
32	Culvert
33	Curb
34	Ditch
35	Embankment
38	Fence
39	Wall
40	Fire Hydrant
41	Shrubbery
42	Tree (Standing Only)
48	Snow Bank
53	Mail Box
43	Other Fixed Object
99	Unknown

**Definition:** The First Harmful Event is defined as the first injury or damage producing event of the crash.

**Remarks:**

Non-Collision events involving motorcycles and vehicles with a “load”:

Non-Collision events may occur before or after a collision event. They should not be coded as a separate event if they occur as part of a collision event.

**Examples:**

- A motorcycle strikes a deer, overturns and the rider becomes separated from the vehicle. Code the collision event, not the non-collision “Rollover/Overturn” and “Vehicle Occupant Fell from Vehicle” that occur as part of the collision event.
- One tractor/trailer rear-ends another tractor/trailer. The impact pushes the lead vehicle’s load into the back of the tractor cab with part falling onto the roadway. Code the collision event, not the non-collision “cargo-loss or shift” that occurred as part of the collision event.

**1 (Rollover/Overtturn)** is used when a motor vehicle rotates (rollover) at least one quarter turn onto its side or end. For motorcycles, laying the motorcycle down on its side is sufficient to code **01 (Rollover/Overtturn)** as a harmful event if damage or injury is produced, even though the data element Rollover is not applicable to motorcycles. **58 (Ground)** is not to be entered when the harmful event is **01 (Rollover/Overtturn)**.

If there is a **01 (Rollover/Overtturn)** that begins in another location but involves a ditch or embankment in the case (e.g., “rolled through the ditch”, “rolled down the embankment”, “came to rest against the embankment”), then the rule applies where if there is no damage associated with an impact with the fixed object during the rollover, it is not included in the Crash Events. If there is indication that damage resulted from an impact with the fixed object, it is included in the Crash Events. This follows the same logic as striking a tree or another vehicle during an overturn.

**Note:** For medium/heavy trucks with attached trailers by fixed linkage, when either the power unit or the trailer rolls over, the entire vehicle will be considered a rollover.

#### **GES SPECIAL INSTRUCTION:**

For articulated light vehicles, that are not commercial do not code a **01 (Rollover/Overtturn)** if only the trailer portion of the combination overturns.

**2 (Fire/Explosion)** is used for a vehicle fire or explosion that occurs during the crash sequence or as a result of the crash.

As it pertains to the occurrence of **02 (Fire/Explosion)**, the crash circumstances are not considered stabilized until the threat of damage to this vehicle, or injury consequences to this vehicle's occupants, has ceased. Therefore, the crash sequence is not considered stabilized until all occupants have exited the vehicle and the scene has been declared safe by police or other authority. Fires that occur at a later time to vehicles abandoned at the scene (e.g., in open fields, on hillsides, etc.) or to vehicles removed from the scene to another location (tow yard, curbside, etc.) are not considered part of the crash sequence.

**3 (Immersion or Partial Immersion)** is used when an in-transport motor vehicle enters a body of water and results in injury or damage. This code would also be used if the vehicle came to rest in water and the depth cannot be ascertained from case materials. NOTE: In immersion fatalities the injury to the person may be noted as “drowning”.

**4 (Gas Inhalation)** includes injury or death as a result of toxic fumes, such as carbon monoxide fumes leaking from a motor vehicle in-transport.

**51 (Jackknife [harmful to this vehicle])** applies to a condition that occurs to an articulated vehicle, (any vehicle with a trailing unit(s) connected by a hitch; e.g., truck tractor or single-unit truck with one or more trailers, articulated bus, car pulling a boat on a trailer, etc.) while in motion. The condition reflects a loss of control of the vehicle by the driver in which the trailer(s) yaws from its normal straight-line path behind the power unit, striking the power unit,

causing damage to the power unit or trailer. Jackknife should only be coded as a harmful event if there is clear indication of damage to the jackknifed vehicle or injury to its occupants caused by the jackknife.

**06 (Injured in Vehicle [non-collision])** is used when an occupant is injured during an unstabilized situation without a collision, excluding cargo/equipment loss or shift. Examples: Driver slams on brake, causing an unrestrained passenger to be injured. Driver makes a sharp turn causing driver to strike head on side window, knocking driver unconscious.

**44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.])** is used when the pavement surface irregularity is on a roadway. If the impact is with a surface irregularity (e.g. ruts, potholes) not on a roadway use the **58 (Ground)**.

**07 (Other Non-Collision).** Non-collision not captured in the listed non-collision attributes.

Example:

Damage to the vehicle produced by its own dislodged vehicle parts (including hood flying up and contacting the windshield).

**16 (Thrown or Falling Object)** is used when any object (1) is thrown (intentionally or unintentionally) and impacts an in-transport vehicle, or (2) falls onto, into, or in the path of an in-transport motor vehicle. If a tree limb falls from a tree and is contacted by a car, enter **16 (Thrown or Falling Object)**. If a person maliciously throws an object off an overpass into traffic below, enter **16 (Thrown or Falling Object)**. This excludes contacts made by loads or objects set in-motion by a motor vehicle (see **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)**).

**72 (Cargo/Equipment Loss or Shift [harmful to this vehicle])** refers specifically to the loss or shift of items carried on or in a motor vehicle or its trailing unit, and not to the vehicle or trailing unit, itself. This attribute is only used when the injury- or damage-producing event in the crash is the loss or shift of cargo in/on a vehicle causing damage to that vehicle, its cargo, or injury to its occupants. This attribute should never be used to refer to a “collision” event (see **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)**).

Example:

A pickup truck brakes rapidly to avoid a collision. This causes a piece of lumber in the pickup bed to smash through the rear window.

**05 (Fell/Jumped from Vehicle)** is used when an occupant of this vehicle falls or jumps (not suicide) from the vehicle causing injury. For example, an occupant of a motor vehicle in-transport leans against the car door, it opens and the occupant falls out; or a person riding on a vehicle’s exterior (hood, roof, running board, etc.) falls or jumps, and is injured by the fall. If an occupant falls or jumps from a vehicle and is struck by that vehicle, use this attribute.

**12 (Motor Vehicle In-Transport)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact within the trafficway boundaries. In-transport means that the motor vehicle is in-motion or on the roadway portion of a trafficway.

**54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact by something set-in-motion by one of the vehicles. In these circumstances, both vehicles should have this attribute in their Sequence of Events. In crashes involving harmful events caused by objects set-in-motion by a Motor Vehicle in-transport, remember that a vehicle's load is considered part of the vehicle.

Examples:

1. If cargo falls from a truck (in-transport) and strikes another motor vehicle in-transport, this is treated as a two-vehicle crash. Therefore, the proper attribute for both vehicles is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)**.
2. If cargo falls from a truck (in-transport) and strikes another vehicle that is not in-transport, this is also treated as a two-vehicle crash; however in this example, the proper attribute is **14 (Parked Motor Vehicle)** or **45 (Working Motor Vehicle)** depending on which type of not in-transport vehicle was contacted by the load.
3. If cargo falls from a truck (in-transport) and strikes a pedestrian, the proper attribute would be **08 (Pedestrian)**.

**55 (Motor Vehicle in Motion Outside the Trafficway)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact outside the trafficway boundaries in a motor vehicle traffic crash.

Example:

A vehicle loses control attempting to turn into a gas station and strikes another vehicle pulling away from the pump in the station lot.

**8 (Pedestrian)** is used for all those not on a personal conveyance. A person pushing a vehicle should be coded **08 (Pedestrian)**. A person being carried by another person should also be considered a **08 (Pedestrian)**.

**9 (Pedalcyclist)** is used for any person on a non-motorized other road vehicle propelled by pedaling. Examples include a bicycle, tricycle, unicycle or pedal car.

**10 (Railway Vehicle)** is any land vehicle that is (1) designed primarily for, or in use for, moving persons or property from one place to another on rails and (2) not in use on a land way other than a railway.

Inclusions:

- Street car on private way

Exclusions:

- Street car operating on trafficway

**11 (Live Animal)** is used for collisions with live animals (domesticated or wild) that are not themselves being used as transportation or to draw a wagon, cart or other transport device (see ANSI D16.1). Default to **11 (Live Animal)** if it cannot be determined if the struck animal is alive, dead or if it was being ridden or drawing a transport device.

Use **49 (Ridden Animal or Animal-Drawn Conveyance)** for ridden animals and animals drawing transport devices. See **18 (Other Object [Not Fixed])** for an animal carcass lying in the roadway.

**18 (Other Object [Not Fixed])** is used when a motor vehicle in-transport strikes a non-fixed object that is known NOT to have been the cargo or part of another motor vehicle in-transport or when it is UNKNOWN whether the object was the cargo or part of another motor vehicle in-transport (i.e., refers to objects such as a dead body, animal carcass, construction cones or barrels, an unattached trailer, a bicycle without a rider or downed tree limbs or power lines.). For objects that have become separated from a motor vehicle in-transport, use attribute **73 (Objects Fell from Motor Vehicle In-Transport)**.

**15 (Non-Motorist on Personal Conveyance)** is used for pedestrians using personal conveyances. A personal conveyance is a device, other than a transport device, used by a pedestrian for personal mobility assistance or recreation. These devices can be motorized or human powered, but not propelled by pedaling.

Inclusions:

1) Rideable toys

- Roller Skates, in-line skates
- Skateboards
- Skates
- Baby carriage
- Scooters
- Toy Wagons

2) Motorized rideable toys

- Motorized skateboard
- Motorized toy car

3) Devices for personal mobility assistance

- Segway-style devices
- Motorized and non-motorized wheelchair
- Handicapped scooters

Exclusions:

- Golf cart
- Low Speed Vehicles (LSVs)
- Go-carts
- Minibike
- "Pocket" motorcycles
- Motor scooters
- Moped

**14 (Parked Motor Vehicle)** is used when the impact occurred between a motor vehicle in-transport and a motor vehicle neither on a roadway nor in motion. A vehicle stopped off the roadway, its door open over a roadway, is not in-transport.

**45 (Working Motor Vehicle)** is used to indicate the motor vehicle contacted was in the act of performing construction, maintenance or utility work related to the trafficway when it became an involved unit. This "work" may be located within open or closed portions of the trafficway and motor vehicles performing these activities can be within or outside the trafficway boundaries. This code does not include private construction/maintenance vehicles, or vehicles such as garbage trucks, delivery trucks, taxis, emergency vehicles, tow trucks, etc.

**Examples:**

1. Asphalt/steam roller working in a highway construction zone paving the roadway or flattening dirt.
2. State highway maintenance crew painting lane lines on the road, mowing grass on the roadside or median, repairing potholes, removing debris from the roadway, etc.
3. Utility truck or a “cherry picker”, performing maintenance on power lines along the roadway or maintaining a traffic signal.
4. A private excavating company contracted by the State digging the foundation for a new overpass.
5. A state, county or privately owned snow plow, plowing ice/snow as part of a highway maintenance activity.
6. Street sweeper sweeping the street.
7. A vehicle in a mobile work convoy displaying arrow boards or other signaling devices warning motorists of the work activity.
8. A law enforcement vehicle which is participating strictly in a stationary construction or mobile maintenance activity as a traffic slowing, control, signaling or calming influence.

**NOTE:** Before 2004, this code was called **Transport Device Used as Equipment**. It included other working activities in addition to construction, maintenance and utility work on trafficways. From 2004 forward, code “45” excludes working activities other than highway construction, maintenance or utility vehicles (e.g., garbage truck picking up trash, mail/delivery trucks while making deliveries, personal vehicles plowing snow, etc. These are considered motor vehicles In-transport). Use Related Factors-Vehicle Level **42 (Other Working Vehicle [Not Construction, Maintenance, Utility, Police, Fire, or EMS Vehicle])** to identify these vehicles.

A question may arise when a police, fire or emergency medical vehicle is struck on the roadway while at the scene of a crash, at a traffic stop, or as traffic control. The question becomes, “has its function changed from being a motor vehicle in-transport to a working vehicle?” The answer is “no.” Treat these situations as a motor vehicle in-transport striking another motor vehicle in-transport. Use Related Factors-Vehicle Level **41 (Police, Fire, or EMS Vehicle Working at the Scene of an Emergency or Performing Other Traffic Control Activities)** to identify that this vehicle was struck while performing these work activities.

**73 (Object Fell From Motor Vehicle In-Transport)** is used when a motor vehicle in- transport impacts a non-fixed object at rest that is known to have been the cargo or part of another motor vehicle in-transport.

**Collision with Fixed Object**

The attributes **58 (Ground), 33 (Curb), 34 (Ditch) and 35 (Embankment)** are grouped under the Collision with Fixed Object subset because they are intended to be harmful events in the crash (i.e. – they are associated with an impact that produces injury or damage).

***When coding these events there must be fields on the PAR or verbiage in the narrative such as "struck", "hit", "impacted", etc. that identify these as harmful.***

**For cases where the indication of the harmful event came from the narrative, there may not be a corresponding indication of damage in any PAR field. In these instances code the harmful event as stated in the narrative and include the corresponding attribute under Areas of Impact.**

If there is no indication of damage from contact with the fixed object **in fields on the PAR and the narrative language does not identify it as a harmful event** (e.g., "came to rest on the embankment" or "drove through" or "drove across" the ditch and/or the embankment, or "drove over" the curb do not code 33 (Curb), 34 (Ditch) or 35 (Embankment) in the Sequence of Events.

**Guidelines for PAR Combination Attributes**

**If there is no clarification in the case materials, default to the first attribute listed in the combination. For example, if a PAR attribute identifies "Earth Embankment/Rockcut /Ditch", code "Embankment" unless the narrative clearly indicates one of the other attributes (e.g. "rockcut" or "ditch").**

**17 (Boulder)** is a rock of sufficient mass that when struck by a motor vehicle moves very little and remains basically intact. It may be considered as a fixed object.

**19 (Building)** is used when the vehicle impacts a roofed and walled structure built for permanent use. The type of construction material used is not of interest, nor is the use of the building.

**58 (Ground)** is used when the impact is with an earthen or paved surface off of the roadway. **58 (Ground)** is not to be entered when the harmful event is **01 (Rollover/Overtake)**.

**20 (Impact Attenuator/Crash Cushion)** is a device for controlling the absorption of energy released during vehicle collision (crash cushion). Its most common application involves the protection of fixed roadside objects such as bridge piers, elevated gores at exit ramps, etc. Examples include barrels filled with water or sand, and plastic collapsible structures.

**50 (Bridge Overhead Structure)** is used when striking the bottom of a bridge while traveling on a trafficway underneath it.

**21 (Bridge Pier or Support)** is a square or round column of stone, concrete, brick, steel or wood for supporting a bridge between abutments. This attribute includes the bridge abutments which are supporting the ends of a bridge. Abutments are generally designed for retaining or supporting the embankment under bridge ends and composed of stone, concrete, brick or wood (includes the wing-walls).

**23 (Bridge Rail [Includes Parapet])** is a wooden, brick, stone, concrete or metal fence-like structure which runs along the outer]most edge of the roadway or sidewalk on the bridge or a rail constructed along the top of a parapet. Balustrade is often used synonymously with parapet.

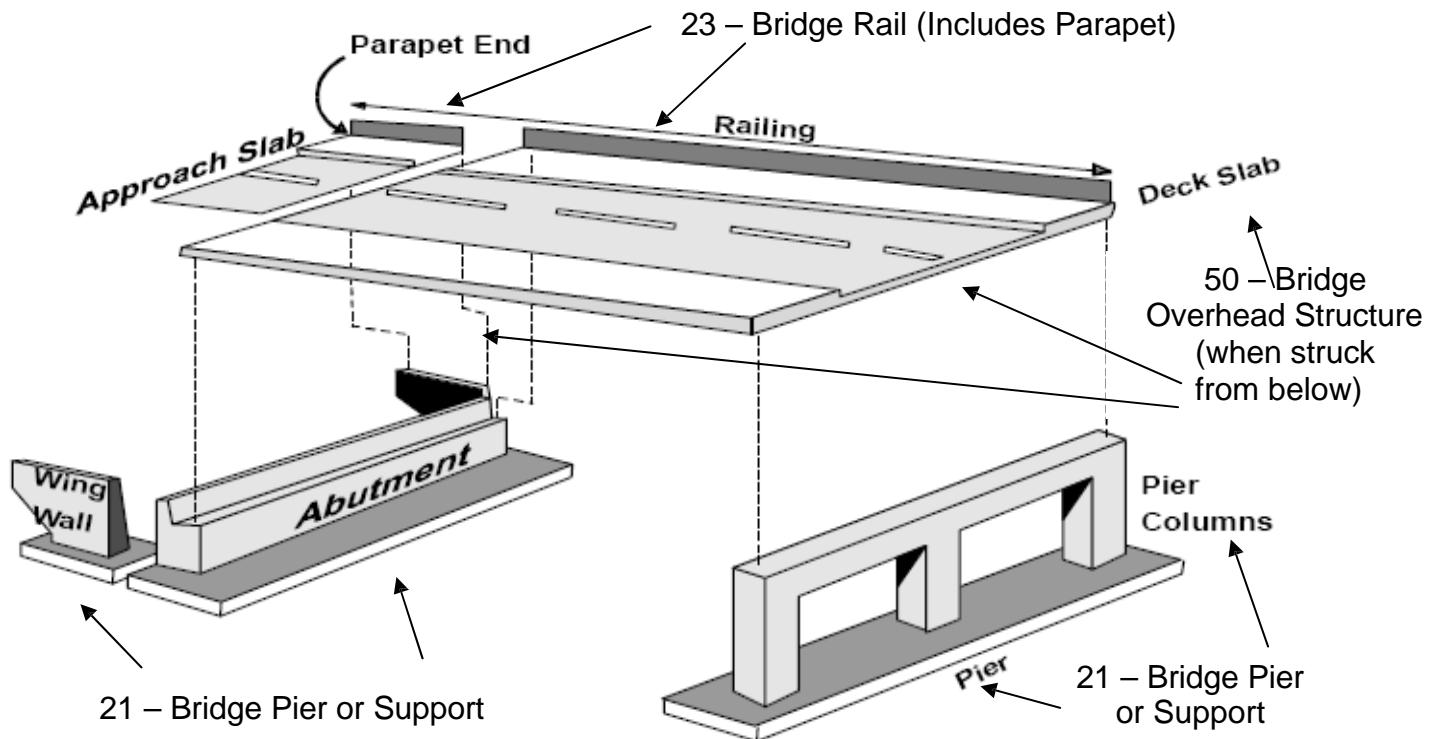
- Bridges do not need to support another roadway. It may be an overpass for a train or even for a viaduct (water conduit).

**24 (Guardrail Face)** is a low barrier that has the primary longitudinal structure composed of metal (plates, mesh, box beam, etc.). A guardrail is differentiated from **25 (Concrete Traffic Barrier)** by the material making up the greatest part of the longitudinal portion of the structure. In the case of guardrails, this is metal whereas in concrete barriers this is concrete (including concrete rails). If the crash report does not differentiate between guardrail face and end, default to guardrail face.

Guardrails, which serve as bridge rails, should be coded as **23 (Bridge Rails [includes Parapet])**.

**52 (Guardrail End)** is used if a vehicle strikes the end of a guardrail. Guardrails can have a separate flat or rounded piece of metal attached to the end of an expanse of guardrail face.

## BRIDGE COMPONENTS



**25 (Concrete Traffic Barrier)** refers to the longitudinal traffic barriers constructed of concrete. This includes all temporary concrete barriers regardless of location (i.e., temporary Jersey

Barrier on a bridge being used to control traffic during bridge repair/construction). Concrete walls (vertical side surfaces) do not apply here; see **39 (Wall)**.

**57 (Cable Barrier)** refers to a flexible barrier system which uses several cables typically supported by steel posts. These barriers are designed to help lessen impact or keep vehicles within the confines of the road.

**26 (Other Traffic Barrier)** is used for all other longitudinal barriers such as wood or rock and unknown barrier composition type.

**59 (Traffic Sign Support)** is used when the post supporting a traffic sign, or the sign itself, is hit by a motor vehicle in-transport. This includes mile marker posts and signs above the trafficway.

**46 (Traffic Signal Support)** is used when the post supporting a traffic signal, or the signal itself, is hit by a motor vehicle in-transport.

**30 (Utility Pole/Light Support)** refers to supports for highway lighting systems, not including other private lighting systems (e.g., parking lot lights). **30 (Utility Pole/Light Support)** is used for electrical, telephone, cable & other utility pole-type supports.

**31 (Other Post, Other Pole or Other Supports)** is used for posts other than highway signs. (e.g., reflectors on poles along side of roadway, parking meters, flag poles, etc.). For mail box posts, use **53 (Mail Box)**.

**32 (Culvert)** is a man-made drain or channel crossing under a road, sidewalk, etc.

**33 (Curb)** is a concrete or asphalt structure that borders the roadway. It provides drainage control and pavement edge delineation. The face of the curb may be sloped or vertical. Ensure that the PAR provides some indication that damage has occurred when a vehicle strikes a curb. **This attribute includes collisions with curbing that forms raised islands, medians, or separators. For example, if the report identifies the vehicle struck/collided with a traffic island, channelizing island, raised median or separator use 33 (Curb) not 43 (Other Fixed Object).**

**34 (Ditch)** includes any man-made structure for drainage purposes. A ditch ends where a culvert begins and resumes on the opposite side of the culvert. Reference to a “ditchbank”, “embankment of the ditch”, or “ditch embankment” should be coded under **34 (Ditch)**.

**35 (Embankment)** is a raised structure to hold back water, to carry a roadway or the result of excavation or washout (including erosion) which may be faced with earth (or rock, stone or concrete). A **35 (Embankment)** can usually be differentiated from a **39 (Wall)** by its incline whereas a wall is usually vertical. However, there are exceptions to this; such as a retaining wall that may be inclined or a vertical embankment that is caused by a natural event such as a washout.

In crashes involving a field approach or crossing, if in doubt about when to use **32 (Culvert)**, **34 (Ditch)** or **35 (Embankment)** use the following criteria:

- a. Use **34 (Ditch)** if the driver would not have been able to recover from the ditch even if there had been no field approach (crossing).
- b. Use **35 (Embankment)** if the driver would have been able to recover from the ditch, but struck the field approach (crossing) prior to doing so.
- c. Use **35 (Embankment)** if it is not known whether or not the driver would have been able to recover from the ditch and a field approach (crossing) is involved.
- d. Use **32 (Culvert)** if it is specifically indicated that the vehicle struck a culvert in the field approach.

**38 (Fence)** includes the fence posts. A Fence can be made of wood, chain link, stone, etc

**39 (Wall)** is a primarily vertical structure composed of concrete, metal, timber or stone which is not part of a building or a fence but typically is used for retaining earth, abating noise, and separating areas (but not for containment as in the primary function of a fence). Also included as **39 (Wall)** is headwalls (or endwalls) that are sometimes provided on culvert ends principally to protect the sides of the embankment around the culvert opening against erosion. This does not include wing-walls, which are attached to ends of bridge abutments and extend back at an angle from the roadway. Wingwalls should be coded as **21 (Bridge Pier or Support)**.

**40 (Fire Hydrant)** refers to the roadside device used by fire departments to provide water for fighting fires. Usually made of steel, these devices are also referred to as fire plugs or fire stand pipes in some areas.

**41 (Shrubbery)** refers to vegetation which is usually of a woody multi-stemmed variety and in most instances is low growing rather than tall. May also be called bushes. Some common examples are boxwood, hawthorn and mountain laurel.

**42 (Tree [Standing Only])** is used when a vehicle strikes a standing tree. This includes impacts from overhanging branches or tree stumps. If a vehicle strikes a tree lying in the roadway, use **18 (Other Object [Not Fixed])**. If a tree falls on a vehicle as it is passing by, use **16 (Thrown or Falling Object)**.

**48 (Snow Bank)** is used when snowfall and/or road plowing creates essentially fixed barriers of snow/ice which are not snow-covered earth or rock embankments.

**53 (Mail Box)** refers to a private residence mail/newspaper box including the post. A cluster of private mailboxes is included in this attribute. This element does not include U.S. Mailbox, which are typically blue and are for general public use. Code a U.S. Mailbox as **43 (Other Fixed Object)**.

**43 (Other Fixed Object)** is used when the object is fixed (considered a permanent structure) and is not described by any of the other fixed object attributes. ***This attribute excludes***

***collisions with curbing that forms raised islands, medians, or separators (See also 33 (Curb).)***

**Examples:**

- Bus shelters
- Pedestrian walkways
- Toll booths
- Guy wires supporting utility poles
- U. S. Mailbox for public use

Other examples would include property damage to standing crops, yards and other vegetation (excluding: **41 (Shrubbery)**, **42 (Tree [Standing Only])**, and **58 (Ground)**) if noted on the crash report.

**99 (Unknown)** is used when police indicate unknown.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(42CP)	there are two vehicles involved in the FIRST HARMFUL EVENT,	those two vehicles' CRASH TYPES must belong to the same CRASH TYPE Configuration.
(440F)	FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 01,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 01-03, 09-11, 13, 16, 23, 98 or 99.
(450F)	FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 07,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 14.
(460F)	FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 02,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 02, 20.
(470F)	FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 03, 08, 10,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 20, 22, 98, 99.
(480F)	FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 04, 06,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 16, 20, 21, 24, 25, 28, 98, 99.

	IF	THEN
(490F)	FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 05,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 24, 25.
(500F)	FIRST HARMFUL EVENT equals 01-11, 14-21, 23-26, 30-35, 44-53, 57-59, 72, <b>73</b> ,	MANNER OF COLLISION must not equal 01, 02, 06-11, 98, 99.
(510F)	FIRST HARMFUL EVENT equals 12, 54, 55,	MANNER OF COLLISION must not equal 00.
(520F)	FIRST HARMFUL EVENT equals 10,	TRAFFIC CONTROL DEVICE must not equal 01-04, 07-09, 20-50, 98 for the vehicle involved in the first harmful event.
(530F)	FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 99,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 98, 99.
(531F)	FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 11,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 11.
(540F)	FIRST HARMFUL EVENT equals 02,	the vehicle involved in the first harmful event must have FIRE OCCURRENCE equal to 1.
(550F)	FIRST HARMFUL EVENT equals 08,	at least one person must have PERSON TYPE equal 05, 10.
(560F)	FIRST HARMFUL EVENT equals 09,	at least one person must have PERSON TYPE equal to 06, 07.
(570F)	FIRST HARMFUL EVENT equals 05, 06,	at least one PERSON TYPE equal to 01-03, 09 must have INJURY SEVERITY equal to 1-5 or blank.
(580F)	FIRST HARMFUL EVENT equals 14, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL does not equal 32, 89 for at least one occupant in the not in-transport motor vehicle involved in the first harmful event,	RELATION TO TRAFFICWAY should not equal 01.
(590F)	FIRST HARMFUL EVENT equals 15,	at least one Person Level form must have a PERSON TYPE of 08.
(5Y0F)	FIRST HARMFUL EVENT equals 08, 09, 15,	NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES must not equal 00.
(670F)	FIRST HARMFUL EVENT equals 12, 14, 45, 54, 55,	NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.

	IF	THEN
(9C0P)	FIRST HARMFUL EVENT equals 55,	there must be at least one vehicle with UNIT TYPE equal to 1.
(A041)	<b><i>CRASH MONTH equals 05-09,</i></b>	<b><i>SEQUENCE OF EVENTS, FIRST HARMFUL EVENT, MOST HARMFUL EVENT should not equal 48.</i></b>
(A080)	DRIVER PRESENCE equals 0, and FIRST HARMFUL EVENT equals 12, and NUMBER OF VEHICLE FORMS SUBMITTED equals 002,	one RELATED FACTORS-DRIVER LEVEL should equal 20.
(A100)	FIRST HARMFUL EVENT is not equal to 02, 04, 05, 10, 16, 18,	there should be one vehicle with TRAVEL SPEED of 001-151, 997-999, or blanks.
(A110)	FIRST HARMFUL EVENT equals 10,	ROADWAY FUNCTION CLASS should not equal 01, 11, 12.
(A350)	ROUTE SIGNING equals 1,	FIRST HARMFUL EVENT should not equal 10.
(A370)	FIRST HARMFUL EVENT equals 99,	MANNER OF COLLISION should not equal 00, 01-11.
(A380)	FIRST HARMFUL EVENT equals 01 and this vehicle is involved in the first harmful event, and BODY TYPE does not equal 80-89 for this vehicle, and RELATION TO TRAFFICWAY equals _____,	LOCATION OF ROLLOVER should equal _____ respectively.
(A390)	FIRST HARMFUL EVENT equals 17, 19-21, 23-26, 30-35, 38-43, 52, 53, 57,	RELATION TO TRAFFICWAY should not equal 01, 02, 07, 11.
(A3C0)	FIRST HARMFUL EVENT equals 02-07, 16, 44, 51, 72,	CRASH TYPE must equal 00 for the vehicle involved in the first harmful event.
(A3D0)	FIRST HARMFUL EVENT equals 01-07, 16, 44, 51, 72,	CRASH TYPE must not equal 20-91.
(A3E0)	CRASH TYPE equals 13,	FIRST HARMFUL EVENT must equal 08, 09, 11, 15 or 49.
(A420)	FIRST HARMFUL EVENT equals 10,	RELATION TO JUNCTION (b) should equal 06.
(A421)	<b><i>FIRST HARMFUL EVENT equals 24, 25, 30, 33, 34, 35, 40, 46, 52, 57, 59,</i></b>	<b><i>RELATION TO TRAFFICWAY should equal 03, 04, 08 or 10.</i></b>
(A480)	CRASH TYPE equals 00,	FIRST HARMFUL EVENT must equal 02-07, 16, 44, 51, 72.
(A4A0)	CRASH TYPE equals 01-16,	FIRST HARMFUL EVENT must not equal 12.

	IF	THEN
(A4BP)	FIRST HARMFUL EVENT equals 54 <b>or 55,</b>	CRASH TYPE must equal 98 for the vehicles involved in the first harmful event.
(A4DP)	CRASH TYPE equals 20-91,	FIRST HARMFUL EVENT must equal 12.
(A4EP)	<b>CRASH TYPE equals 11,</b>	<b>FIRST HARMFUL EVENT must equal 14.</b>
(A60F)	FIRST HARMFUL EVENT equals 14,	CRASH TYPE <b>must</b> equal 01-11, <b>14, 15, 92, 98, 99.</b>
(A61F)	FIRST HARMFUL EVENT equals 08, 09, 11, 15, 49, and RELATION TO TRAFFICWAY equals 01, 02, 07, 11, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) is not equal to 00, 13 for the vehicle involved in the first harmful event,	CRASH TYPE should equal 13 for the vehicle involved in the first harmful event.
(A61G)	the FIRST HARMFUL EVENT equals 08, and PERSON TYPE equals 05, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.
(A61H)	the FIRST HARMFUL EVENT equals 09, and PERSON TYPE equals 06, 07, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.
(A61J)	the FIRST HARMFUL EVENT equals 15, and PERSON TYPE equals 08, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.

	IF	THEN
(A61K)	the FIRST HARMFUL EVENT equals 49, and PERSON TYPE equals 04, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.
(A62F)	FIRST HARMFUL EVENT equals 18, 43, or <b>73</b> , and RELATION TO TRAFFICWAY equals 01 or 11,	CRASH TYPE should equal 12 or 15 for the vehicle involved in the first harmful event.
(A63F)	FIRST HARMFUL EVENT equals 01,	CRASH TYPE should equal 01-10, 98, 99 for the vehicle involved in the first harmful event.
(A65F)	<b><i>FIRST HARMFUL EVENT equals 14, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL equals 32 or 89 for an occupant of the parked vehicle involved in the first harmful event,</i></b>	<b><i>CRASH TYPE should equal 15, 92 or 98 for the in-transport vehicle involved in the first harmful event.</i></b>
(A66F)	<b><i>FIRST HARMFUL EVENT equals 14, and CRASH TYPE 01-10 or 14,</i></b>	<b><i>RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL must not equal 32 or 89 for any occupant of the parked vehicle involved in the first harmful event.</i></b>
(A67F)	<b><i>FIRST HARMFUL EVENT equals 14, and CRASH TYPE equals 15,</i></b>	<b><i>RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL should equals 32 or 89 for an occupant of the parked vehicle.</i></b>
(A770)	FIRST HARMFUL EVENT equals 46,	TRAFFIC CONTROL DEVICE should equal 01-04 for the vehicle involved in the first harmful event.
(A780)	FIRST HARMFUL EVENT equals 46,	TRAFFIC CONTROL DEVICE should not equal 00 for the vehicle involved in the first harmful event.
(A790)	FIRST HARMFUL EVENT equals 46,	RELATION TO JUNCTION (b) should not equal 01, 07.
(A800)	FIRST HARMFUL EVENT equals 46,	RELATION TO TRAFFICWAY should not equal 01, 02, 05, 07, 11.
(A810)	FIRST HARMFUL EVENT equals 46, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 02, 03, 05,	ROADWAY FUNCTION CLASS should not equal 01, 11.

	IF	THEN
(A820)	FIRST HARMFUL EVENT equals 46, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 02, 03, 05,	ROUTE SIGNING should not equal 1.
(A830)	FIRST HARMFUL EVENT equals 46,	SPEED LIMIT should be less than 55 for the vehicle involved in the first harmful event.
(AC1A)	FIRST HARMFUL EVENT equals <b>54</b> ,	MANNER OF COLLISION should equal 11.
(AM1P)	FIRST HARMFUL EVENT equals 54,	one RELATED FACTORS-CRASH LEVEL must equal 14.
(AZ2P)	<b>FIRST HARMFUL EVENT does not equal 02-07, 16, 44, 51, 72, and CRITICAL EVENT-PRECRASH (EVENT) equals 14, and ATTEMPTED AVOIDANCE MANEUVER equals 01,</b>	CRASH TYPE must equal 14 <b>for the vehicle involved in the first harmful event.</b>
(FA0F)	FIRST HARMFUL EVENT equals blank, case status is flawed.	
(PB34)	NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals <b>01</b> , and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> must not equal 320, 330, 360, 680, 830, 890, 900, or 910.
(PB35)	NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 01, and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02,	PEDESTRIAN/ BIKE TYPING - <b>CRASH LOCATION - PEDESTRIAN</b> must equal 1.
(U020)	UNLIKELY: FIRST HARMFUL EVENT equals 02, 04, 06, 51, 72.	
(U030)	UNLIKELY: FIRST HARMFUL EVENT <b>equals 12, 55</b> , and MANNER OF COLLISION equals 10, 11.	
(U640)	UNLIKELY: FIRST HARMFUL EVENT equals 99	
(V750)	UNDERRIDE/OVERRIDE equals 1-3,	FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 12, 55.
(V760)	UNDERRIDE/OVERRIDE equals 4-6,	FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 14, 45.
(V79P)	ROLLOVER equals 2, and FIRST HARMFUL EVENT equals 01,	CRASH TYPE must equal 01-10, 14, 15 or 98 for the vehicle involved in the first harmful event.

**Consistency Check (GES Only):**

**IF**

**THEN**

(A3K0) FIRST HARMFUL EVENT equals 10,      INTERSTATE HIGHWAY should not equal 1.

## **MANNER OF COLLISION**

**FORMAT:** 2 numeric

**SAS NAME:** Accident.MAN\_COLL; Vehicle.MAN\_COLL; Person.MAN\_COLL;  
parkwork.PMAN\_COLL

**ELEMENT VALUES:**

- 1 Not a Collision with a Motor Vehicle In-Transport
- 2 Front-to-Rear
- 3 Front-to-Front
- 6 Angle
- 7 Sideswipe-Same Direction
- 8 Sideswipe-Opposite Direction
- 9 Rear-to-Side
- 10 Rear-to-Rear
- 11 Other
- 98 Not Reported
- 99 Unknown

**Definition:** This element identifies the orientation of two motor vehicles in-transport when they are involved in the First Harmful Event of a collision crash. If the First Harmful Event is not a collision between two motor vehicles in-transport it is classified as such.

**Remarks:**

**1 (Not Collision with a Motor Vehicle In-Transport)** is used when the first harmful event is not an impact between two in-transport motor vehicles.

**2 (Front-to-Rear)** is used when a collision occurs between the rear of one vehicle and the front of another vehicle. If this attribute is selected, the points of impact for the vehicles involved in the first harmful event must be front to back.

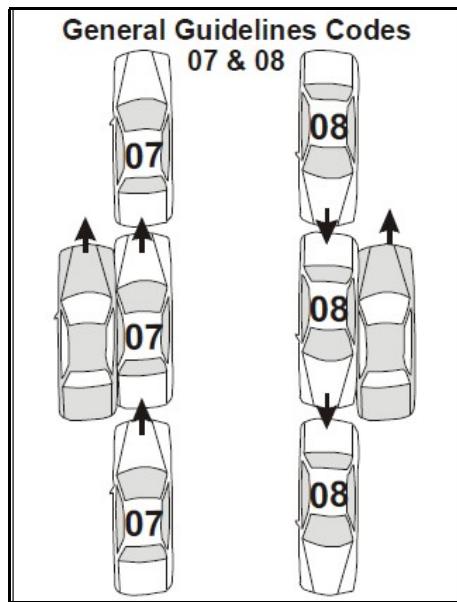
**3 (Front-to-Front)** is used when a collision occurs between the front end of one vehicle and the front end of another vehicle. If this attribute is selected, the points of impact for the vehicles involved in the first harmful event must both be front.

**6 (Angle)** is a crash where two motor vehicles impact at an angle. For example, the front of one motor vehicle impacts the side of another motor vehicle. If this attribute is selected, the points of impact for the vehicles involved in the first harmful event must not be front to front, front to back, back to back or back to side.

**7 (Sideswipe - Same Direction)** is used when the case materials report that a sideswipe occurred while the two vehicles were traveling in the same direction.

### **Clarification for coding sideswipe attributes 07 and 08:**

Sideswipe codes are used for both vehicles when the initial engagement has no significant involvement of the front or rear surface areas where the impact swipes along the side surfaces of the vehicles parallel to their direction of travel. If it is unclear if the collision was an angle or a sideswipe, then code it **06 (Angle)**. Endswipes and side-to-side angle impacts are coded as **11 (Other)**. (See diagram below.)



**8 (Sideswipe - Opposite Direction)** is used when the case materials report that a sideswipe occurred while the two vehicles were traveling in opposite directions.

**9 (Rear-To-Side)** is used when a collision occurs between the rear of one vehicle and the side of another vehicle. If this attribute is selected, the points of impact for the vehicles involved in the first harmful event must back for one and side for the other.

**10 (Rear-To-Rear)** is used when a collision occurs between the rear of one vehicle and the rear of another vehicle. If this attribute is selected, the points of impact for the vehicles involved in the first harmful event must both be back.

**11 (Other)** should be used for any collision between two motor vehicles in-transport where the collision is not described by attributes "01-10," including set-in-motion situations.

#### Examples include:

- One vehicle's "end" swipes (endswipe) another vehicle instead of their "sides" swiping.
- One vehicle slides into another vehicle at an angle such that they impact side-to-side.
- One vehicle is airborne and makes contact with its front or undercarriage to the other vehicle's hood or top.
- Cargo or other load on one motor vehicle in-transport shifts and lands or is thrown into/onto another vehicle.

- The tire of one motor vehicle in-transport throws a stone through the windshield of another vehicle.
- A vehicle occupant or motorcyclist falls or is thrown from a vehicle striking or is struck by another vehicle.

### **98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown)** is used when police indicate unknown.

### **Consistency Checks:**

<b>IF</b>	<b>THEN</b>
(420P) MANNER OF COLLISION equals 07,08,	there must be at least two vehicle forms with AREAS OF IMPACT-INITIAL CONTACT POINT equal to 01-05, 07-11, 61-63, 81-83, 98, 99.
(421P) MANNER OF COLLISION equals 01,	AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 12, and AREAS OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 06.
(422P) MANNER OF COLLISION equals 02,	AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 12, and AREAS OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 12.

IF	THEN
(423P) MANNER OF COLLISION equals 06,	AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 01, 11, 12, 98, <b>99</b> , and AREAS OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 01-05, 07-11, 61-63, 81-83 98, 99.
(424P) MANNER OF COLLISION equals 09,	AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event should equal 06, and AREAS OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the first harmful event should equal 01-05, 07-11, 61-63, 81-83, 98, 99.
(425P) MANNER OF COLLISION equals 10,	AREAS OF IMPACT- INITIAL CONTACT POINT for one vehicle in the first harmful event should equal 06, and AREAS OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the first harmful event should equal 06, 98, 99.
(426P) MANNER OF COLLISION equals 02,	CRASH TYPE must not equal 64-67 for the vehicles involved in the first harmful event.
(427P) MANNER OF COLLISION equals 06,	CRASH TYPE must not equal 20-43 or 50-53 for the vehicles involved in the first harmful event.
(500F) FIRST HARMFUL EVENT equals 01-11, 14-21, 23-26, 30-35, 44-53, 57-59, 72, <b>73</b> ,	MANNER OF COLLISION must not equal 01, 02, 06-11, 98, 99.
(510F) FIRST HARMFUL EVENT equals 12, 54, 55,	MANNER OF COLLISION must not equal 00.
(9BAP) MANNER OF COLLISION equals 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the first harmful event,	CRASH TYPE should equal 44-49, 98, 99 for the vehicles involved in the first harmful event.
(9BCP) MANNER OF COLLISION equals 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the first harmful event,	CRASH TYPE should equal 64-67, 98, 99 for the vehicles involved in the first harmful event.

	IF	THEN
(9BDP)	MANNER OF COLLISION equals 01,	CRASH TYPE should not equal 44-49 for the vehicles involved in the first harmful event.
(A370)	FIRST HARMFUL EVENT equals 99,	MANNER OF COLLISION should not equal 00, 01-11.
(AC1A)	FIRST HARMFUL EVENT equals <b>54</b> ,	MANNER OF COLLISION should equal 11.
(BZ80)	MANNER OF COLLISION equals 00,	CRASH TYPE must equal 00, 01-16, 92, 98, 99 for the vehicle in the first harmful event.
(U030)	UNLIKELY: FIRST HARMFUL EVENT <b>equals 12, 55</b> , and MANNER OF COLLISION equals 10, 11.	

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## **RELATION TO JUNCTION**

**FORMAT:** 1 numeric occurring 1 time, 2 numeric occurring 1 time

**SAS NAME:** Accident.RelJct1, Accident.RelJct2

**ELEMENT VALUES:**

**C20a: Within Interchange Area?**

- 0 No
- 1 Yes
- 8 Not Reported
- 9 Unknown

**C20b: Specific Location**

- 1 Non-Junction
- 2 Intersection
- 3 Intersection-Related
- 05 Entrance/Exit Ramp Related
- 20 Entrance/Exit Ramp
- 6 Railway Grade Crossing
- 7 Crossover-Related
- 04 Driveway Access
- 08 Driveway Access Related
- 16 Shared-Use Path ***Crossing***
- 17 Acceleration/Deceleration Lane
- 18 Through Roadway
- 19 Other location within interchange area
- 98 Not Reported
- 99 Unknown

**Definition:** The coding of this data element is done in two subfields and based on the location of the first harmful event of the crash. It identifies the crash's location with respect to presence in an interchange area and the crash's location with respect to presence in or proximity to components typically in junction or interchange areas.

**Remarks:**

**Subfield 1 (C20a): Within Interchange Area?**

**Interchange:** An interchange is a system of interconnecting roadways in conjunction with one or more grade separations, providing for the movement of traffic between two or more roadways on different levels.

**0 (No)** is used if the first harmful event of the crash occurs outside of the boundaries of an interchange.

**1 (Yes)** is used if the location of the first harmful event of the crash is within an interchange area.

### **8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**9 (Unknown)** is used when police indicate unknown.

### **Subfield 2 (C20b): Specific Location**

**1 (Non-Junction)** is used for crashes where the first harmful event occurs outside an interchange area and does not occur in or related to a junction, ramp, rail grade crossing, crossover, or shared-use path or trail. This attribute includes crashes that occur on a parking lot way (access road) at the connection of a parking aisle. (See diagram at the end of the remarks section for this element.)

**2 (Intersection)** is used when the first harmful event occurs in an area which: (1) contains a crossing or connection of two or more roadways not classified as a driveway access, and (2) is embraced within the prolongation of the lateral curb lines or, if none, the lateral boundary lines of the roadways. Where the distance along a roadway between two areas meeting these criteria is less than 10 meters, the two areas and the roadway connecting them are considered to be parts of a single intersection. See the examples of intersections on the following pages.

#### **FARS SPECIAL INSTRUCTION:**

**In an Intersection, within Interchange Area:** if the first harmful event occurs within the intersection of a ramp and the surface roadway: It is important to always code National Highway System and Roadway Function Class for the highest class of trafficway at this intersection.

**3 (Intersection-Related)** means that the first harmful event: (1) occurs on an approach to or exit from an intersection and (2) results from an activity, behavior or control related to the movement of traffic units through the intersection.

**Note:**

- For crashes where the first harmful event occurs in a crosswalk at an intersection area, use **03 (Intersection-Related)**.
- For Traffic Circles and Roundabouts, enter **02 (Intersection)** when the first harmful event occurs within the area formed by the prolongation of curb or edge lines of the approach legs of the intersection, regardless of whether or not the collision was in any way related to an intersection. Use **03 (Intersection-Related)** if the first harmful event occurs in the central island or any directional island which serves the rotary intersection.

**05 (Entrance/Exit Ramp Related)** is used when the first harmful event occurs **off** the entrance/exit ramp roadway, but is related to the use of or entry onto the ramp.

**Note:** If the first harmful event occurs on the ramp outside of an intersection of the ramp and the surface roadway and is related to the movement of traffic through the intersection then use **03 (Intersection-Related)**.

**20 (Entrance/Exit Ramp)** is used when the first harmful event occurs **on** an entrance or exit ramp roadway and is not the result of an activity, behavior or control related to the movement of traffic units through an intersection. This would include all the areas between the gore and entrance/exit ramp intersection.

**6 (Railway Grade Crossing)** is used when the first harmful event occurred in the area formed by the at-grade connection of a railroad bed and a roadway. Crashes occurring outside a railway grade crossing due to traffic congestion associated with a railway grade crossing are considered non-junction.

**7 (Crossover-Related)** is used when the first harmful event occurs in a crossover or on approach to or exit from a crossover and related to the use of the crossover.

**Note:** A crossover is the area of the median of a divided trafficway where motor vehicles are permitted to cross the opposing lane or traffic or execute a U-turn.

**04 (Driveway Access)** is used when the first harmful event occurs:

1. on a driveway access (See ANSI D16.1 Manual 2.5.9)
2. or involves a road vehicle entering or leaving by way of a driveway access where at least one traffic unit (vehicle, pedalcyclist or pedestrian) is physically on the driveway access within the trafficway.

This attribute includes crashes occurring on sidewalks within the driveway access.

**Examples:**

- A car turning into a private residence driveway strikes a bicyclist riding on the sidewalk that crosses over the driveway access.
- A tractor trailer backing out of a business entrance onto the trafficway, while partially on the driveway access, is struck by a car on the roadway.

**08 (Driveway Access Related)** is used when the first harmful event:

1. occurs on the trafficway,
2. does not occur on a **04 (Driveway Access)**, but
3. results from an activity, behavior or control related to the movement of traffic units onto or out of a driveway (See ANSI D16.1 Manual 2.5.9.1).

Examples:

- A vehicle attempting to turn left into a driveway from the eastbound lanes is struck broadside by another vehicle traveling in the westbound lanes,
- A vehicle that has just entered the trafficway from a driveway is struck in the rear before it can gain speed.

**Note:** When a driveway access junction is within an intersection and the crash would meet the criteria of driveway access or driveway access related, enter **02 (Intersection)** if the first harmful event was within the boundaries of the intersection or **03 (Intersection-Related)** if it was not, but related to the intersection.

**Note:** If there is not sufficient detail available to differentiate between driveway access and driveway access related, but it is known that the vehicle was coming out of (or going into) a driveway, default to 08 (Driveway Access Related). See diagram below.

**16 (Shared-Use Path Crossing)** is used when the first harmful event occurs at the crossing of a roadway and a shared-use path (*see below for the definition of a shared use path*). At least one non-motorist has to be physically in the **crossing of the roadway and the shared-use path** and the crash has to be related to the use of it. **If the crossing of a roadway and a shared-use path overlaps/coincides with a crosswalk in a non-intersection area (e.g., mid block), then select 16 (Shared-Use Path Crossing).**

**Note:** A **shared-use path** is a bikeway physically separated from motorized vehicular traffic by an open space or barrier and either within the highway right of way or an independent right of way. Shared-use paths will also be used by pedestrians, skaters, wheelchairs, joggers and other non-motorist users. A shared-use path is not a sidewalk and where a shared-use path crosses another land way is **similar to**, but not a crosswalk. **A shared-use path crossing may overlap/coincide with a crosswalk.**

**17 (Acceleration/Deceleration Lane)** is used when the first harmful event occurs on the roadway in an interchange area on an auxiliary or speed-change lane that allows vehicles to accelerate to highway speeds before entering the through roadway or decelerate to safe speeds to negotiate a ramp without interrupting traffic flow on the through roadway exited.

**18 (Through Roadway)** is used when the first harmful event occurs on the roadway within an interchange area but does not occur:

- In an intersection or related to an intersection - **02 (Intersection)** or **03 (Intersection - Related)**.

- On a **20 (Entrance/Exit Ramp)** or related to the use of the ramp - **05 (Entrance/Exit Ramp Related)**
- In a **17 (Acceleration/Deceleration Lane)**

**19 (Other location within interchange area)** is used when the first harmful event occurs within an Interchange, off of the roadway (e.g. median, shoulder, roadside) and is not related to the use of or the entry onto a ramp.

Examples:

- A vehicle on the **18 (Through Roadway)** portion of the interchange departs the roadway and overturns in the median.
- A vehicle leaves the **18 (Through Roadway)** portion of the interchange and strikes a vehicle parked on the shoulder.

**98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **98 (Not Reported)** in these two situations:

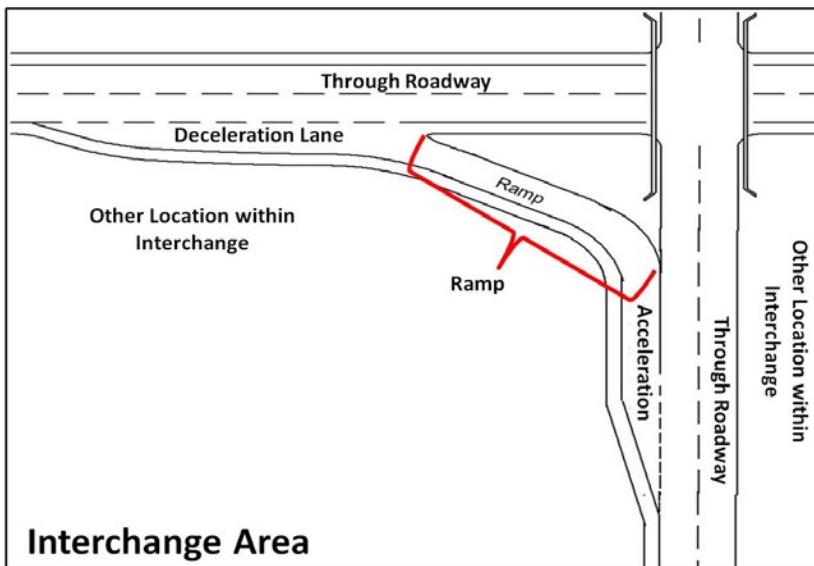
1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown)** is used when police indicate unknown.

### Valid Combinations for Subfield 1 and Subfield 2

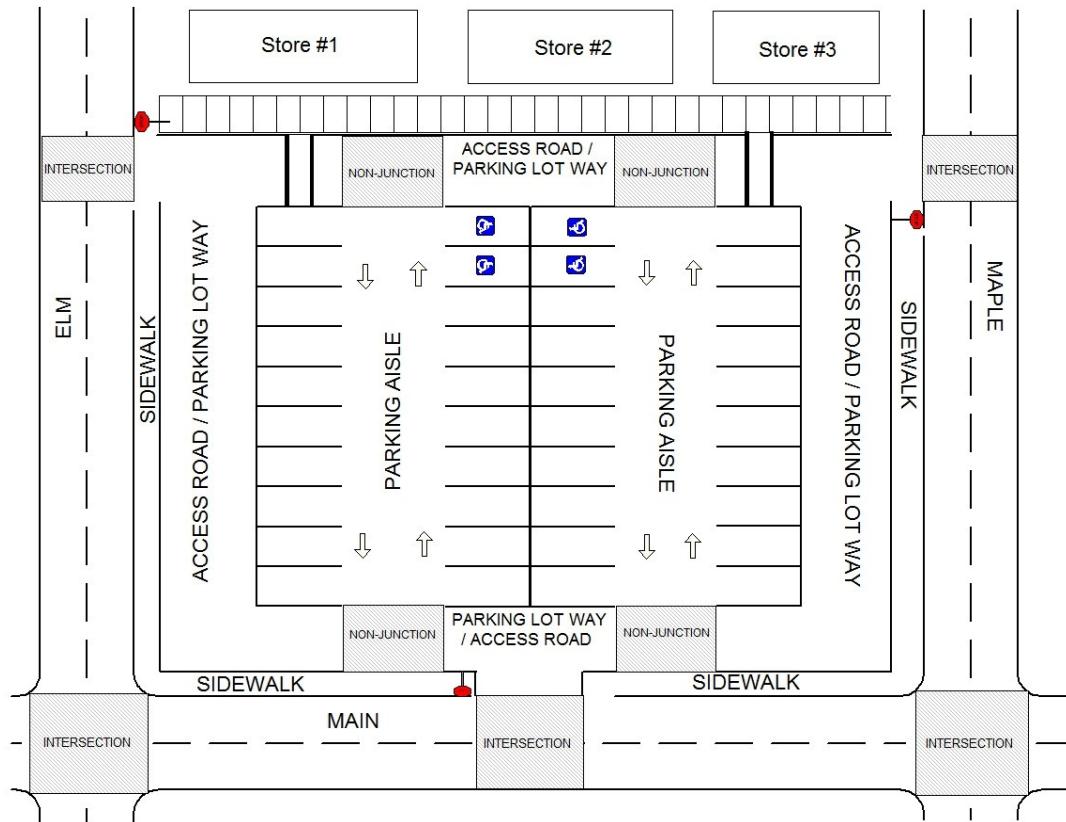
Subfield 1 (C20a): Within Interchange?				Subfield 2 (C20b): Specific Location	
Yes	No	Not Reported	Unknown	Code	Attribute
-	X	-	-	01	Non-Junction
X	X	X	X	02	Intersection
X	X	X	X	03	Intersection-Related
X	X	X	X	05	Entrance/Exit Ramp Related
-	X	-	-	06	Railway Grade Crossing
X	X	X	X	07	Crossover Related
X	X	X	X	04	Driveway Access
X	X	X	X	08	Driveway Access Related
X	X	X	X	16	Shared-use Path or Trail
X	-	-	-	17	Acceleration/Deceleration Lane
X	-	-	-	18	Through Roadway
X	-	-	-	19	Other Location, within Interchange Area
X	X	X	X	20	Entrance/Exit Ramp
X	X	X	X	98	Not Reported
X	X	X	X	99	Unknown

The diagram below will help identify Relation to Junction codes 05 (Entrance/Exit Ramp Related), 17 (Acceleration/Deceleration Lane), 18 (Through Roadway) , 19 (Other Location Within Interchange Area) in an Interchange Area and 20 (Entrance/Exit Ramp).

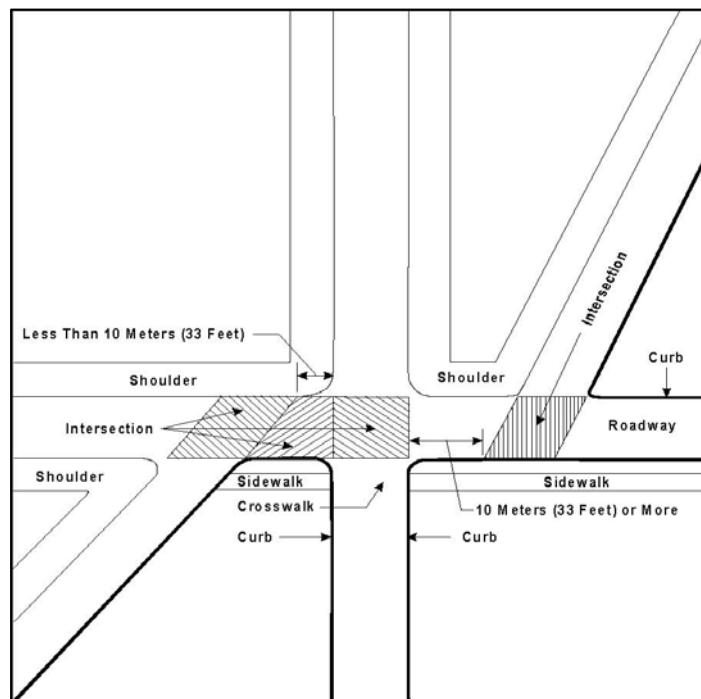


**Figure 5 – Intersection (See 2.5.10)**

**Example Parking Lot Area  
(01 – Non-junction, 02 – Intersection)**



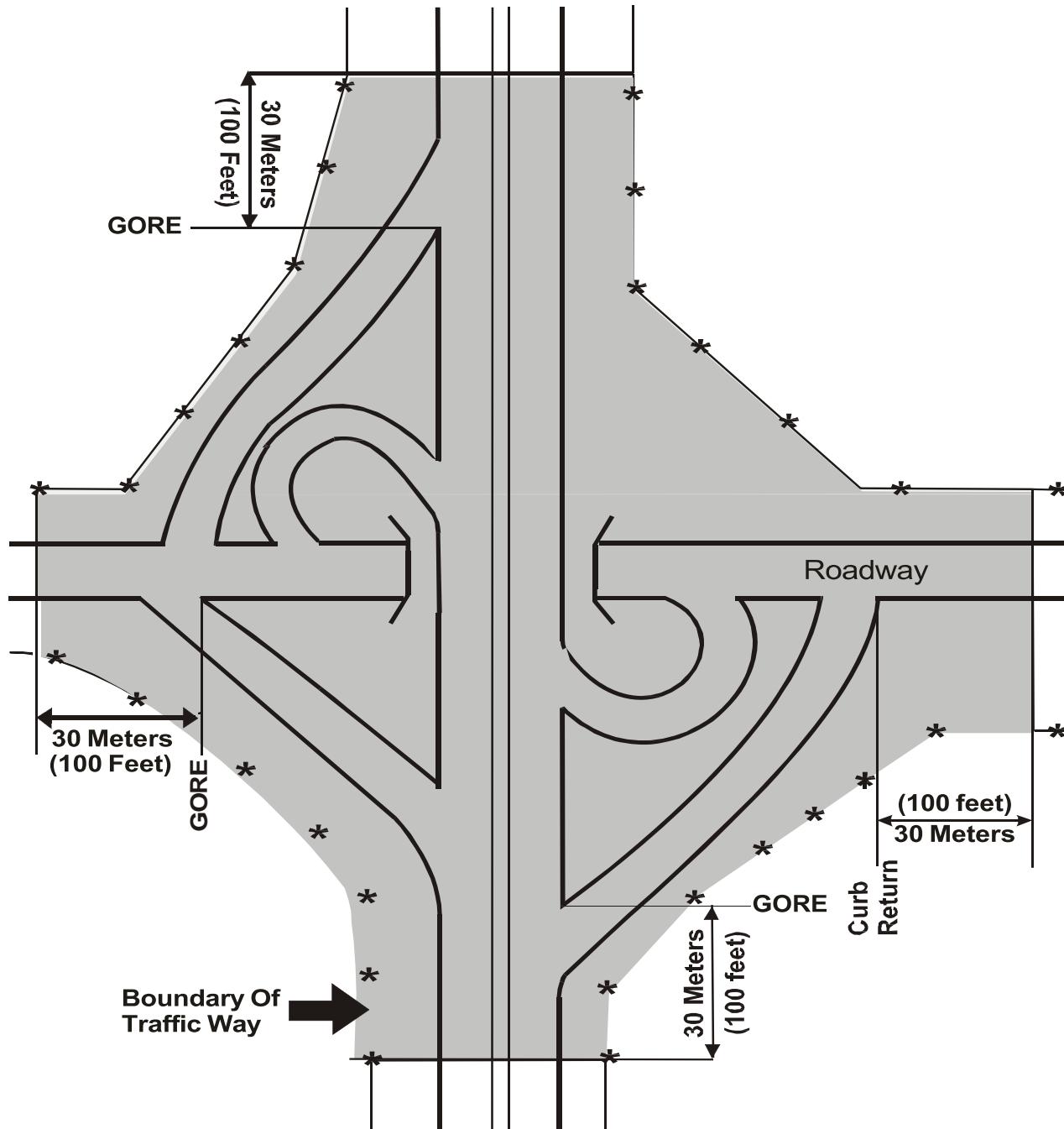
**Figure 4 from ANSI D16 7<sup>TH</sup> Edition (Driveway Access 2.3.9)**



The diagram below will help identify if the crash occurred within an Interchange Area for Relation to Junction (C20a) – Within Interchange Area

**INTERCHANGE ACCIDENTS**  
Accidents which occur within the shaded area  
are interchange accidents

From ANSI D16.1 - 2007 (PG. 30)



**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(1F1P)	RELATION TO JUNCTION (b) does not equal 02, 03,	the second TRAFFICWAY IDENTIFIER should be blank.
(1Y0P)	RELATION TO JUNCTION (b) equals 06,	RAIL GRADE CROSSING IDENTIFIER must not equal 0000000.
(250P)	RELATION TO JUNCTION (b) equals 01, 02, 04, 06, 07, 16-19, 98, 99, and RELATION TO TRAFFICWAY equals 03,	TRAFFICWAY DESCRIPTION should equal 2, 3 for at least one vehicle involved in the first harmful event.
(254P)	RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 20,	TRAFFICWAY DESCRIPTION must equal 6 for at least one vehicle involved in the first harmful event.
(3E00)	CRITICAL EVENT – PRECRASH (EVENT) equals 65-68 or 70-73 for a vehicle involved in the first harmful event,	RELATION TO JUNCTION (b) should not equal 01 or 18.
(730P)	RELATION TO JUNCTION (b) equals 07,	RELATION TO TRAFFICWAY must not equal 04-07, 10, 11, 99.
(740P)	RELATION TO JUNCTION (b) equals 07,	TRAFFICWAY DESCRIPTION must equal 2, 3 for at least one vehicle.
(750P)	RELATION TO JUNCTION (b) equals 07,	RAIL GRADE CROSSING IDENTIFIER must equal 0000000.
(770P)	RELATION TO TRAFFICWAY equals 07,	RELATION TO JUNCTION (b) must equal 01, 03, 08, 19, 98, 99.
(772P)	RELATION TO TRAFFICWAY equals 07,	RELATION TO JUNCTION (a) must not equal 1.
(773P)	RELATION TO JUNCTION (b) equals 01,	RELATION TO JUNCTION (a) must equal 0.
(773Q)	RELATION TO JUNCTION(b) equals 04, 06, 07, or 16,	RELATION TO JUNCTION (a) should not equal 1.
(775P)	RELATION TO JUNCTION (b) equals 17 or 18 or 19,	RELATION TO JUNCTION (a) must equal 1.
(778P)	RELATION TO JUNCTION (b) equals 01, 04-08, 16-20,	TYPE OF INTERSECTION must equal 01.
(77AP)	CRASH TYPE equals 14,	RELATION TO JUNCTION (b) must not equal 02.
(77BP)	CRASH TYPE equals 68-91,	RELATION TO JUNCTION (b) should not equal 01.
(77CP)	CRASH TYPE equals 14,	RELATION TO JUNCTION (b) should equal 01, 03, 19.
(77DP)	RELATION TO TRAFFICWAY equals 07, and RELATION TO JUNCTION (a) equals 1,	RELATION TO JUNCTION (b) should not equal 03, 08.

	IF	THEN
(780P)	RELATION TO TRAFFICWAY equals 10,	RELATION TO JUNCTION (b) must not equal 02, 04, 08.
(782P)	TYPE OF INTERSECTION equals 02-07, 10,	RELATION TO JUNCTION (b) must equal 02, 03.
(783P)	RELATION TO JUNCTION (b) equals 98, 99,	TYPE OF INTERSECTION should equal 01, 98, 99.
(784P)	TYPE OF INTERSECTION equals 01,	RELATION TO JUNCTION (b) must not equal 02, 03.
(A131)	<b><i>RELATION TO JUNCTION (b) equals 02, 04, 06, 16, 17, or 20,</i></b>	<b><i>RELATION TO TRAFFICWAY must equal 01.</i></b>
(A141)	<b><i>RELATION TO JUNCTION (b) equals 18,</i></b>	<b><i>RELATION TO TRAFFICWAY must equal 01 or 11.</i></b>
(A150)	ROADWAY FUNCTION CLASS equals 01, 11, 12, and RELATION TO JUNCTION (a) equals 0,	RELATION TO JUNCTION (b) should not equal 02-04, 06, 08.
(A1B0)	TRAFFIC CONTROL DEVICE equals 20, 21 for a vehicle involved in the first harmful event,	RELATION TO JUNCTION (b) should not equal 01, 18.
(A1E0)	RELATION TO JUNCTION (b) equals 19,	RELATION TO TRAFFICWAY must not equal 01, 05, 11, 98, 99.
(A1E1)	RELATION TO JUNCTION (b) equals 20,	RELATION TO TRAFFICWAY must equal 01.
(A200)	RELATION TO JUNCTION (b) equals 07,	ROADWAY FUNCTION CLASS should not equal 04-06, 16.
(A210)	ROADWAY FUNCTION CLASS equals 01, 11, 12, and RELATION TO JUNCTION (a) equals 0,	TRAFFIC CONTROL DEVICE should not equal 01-04, 07, 20, 23, 40, 50, 65.
(A220)	ROADWAY FUNCTION CLASS equals 01, 11, and RELATION TO JUNCTION (a) equals 0,	SPEED LIMIT should not equal 05-40 for any vehicle.
(A240)	ROADWAY FUNCTION CLASS equals 01, 11, and RELATION TO JUNCTION (a) equals 0,	TRAVEL SPEED should not equal 005-040 for any vehicle.
(A250)	ROADWAY FUNCTION CLASS equals 01, 02, 11-13, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 03, 05, 20,	TOTAL LANES IN ROADWAY should not equal 1 for the vehicles involved in the first harmful event.
(A290)	ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,	RELATION TO JUNCTION (b) should not equal 02-04, 06, 08 16.
(A291)	RELATION TO JUNCTION (b) equals 07,	ROUTE SIGNING should not equal 5, 6.

	IF	THEN
(A293)	WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 02, 03,	TRAFFIC CONTROL DEVICE should equal 01-03, 20, 40, 97 or 98 for the vehicle(s) involved in the first harmful event.
(A294)	WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 01, 04, 05, 08, 17-19,	TRAFFIC CONTROL DEVICE should equal 00, 21, 28, 40, 50, 97 or 98 for the vehicle(s) involved in the first harmful event.
(A310)	ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,	TOTAL LANES IN ROADWAY should not equal 1 for any vehicle.
(A320)	ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,	SPEED LIMIT should not equal 05-40 for any vehicle.
(A360)	RELATION TO JUNCTION (b) equals 07,	ROUTE SIGNING should not equal 4.
(A420)	FIRST HARMFUL EVENT equals 10,	RELATION TO JUNCTION (b) should equal 06.
(A430)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10-11 for a vehicle involved in the first harmful event,	RELATION TO JUNCTION (b) should not equal 01, 18.
(A440)	RELATION TO JUNCTION (b) equals 06,	TRAFFIC CONTROL DEVICE should equal 65 for any vehicle involved in the first harmful event.
(A4C0)	RELATION TO JUNCTION (b) equals 04,	at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) for the vehicles involved in the first harmful event should equal 10, 11, 13 or 98. <b>TOTAL LANES IN ROADWAY should equal 1, 2, 8, 9.</b>
(A481)	<b>TRAFFICWAY DESCRIPTION equals 6, and RELATION TO JUNCTION (b) does not equal 02, 03,</b>	
(A610)	RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 05,	TRAFFICWAY DESCRIPTION should equal 6 for at least one vehicle involved in the first harmful event.
(A611)	TRAFFICWAY DESCRIPTION equals 6 for at least one vehicle involved in the first harmful event,	RELATION TO JUNCTION (b) should equal 02, 03, 05, 17-20.
(A790)	FIRST HARMFUL EVENT equals 46,	RELATION TO JUNCTION (b) should not equal 01, 07.

	<b>IF</b>	<b>THEN</b>
(A810)	FIRST HARMFUL EVENT equals 46, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 02, 03, 05,	ROADWAY FUNCTION CLASS should not equal 01, 11.
(A820)	FIRST HARMFUL EVENT equals 46, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 02, 03, 05,	ROUTE SIGNING should not equal 1.
(A890)	RELATION TO JUNCTION (b) equals 01,	TRAFFIC CONTROL DEVICE should not equal 01-03 for any vehicle involved in the first harmful event. the second TRAFFICWAY IDENTIFIER should not be all blank. RELATION TO JUNCTION (b) should equal 04 or 08.
(AC0A)	RELATION TO JUNCTION (b) equals 02, 03,	RELATION TO JUNCTION (b) should equal 06.
(AZ5P)	CRITICAL EVENT-PRECRASH (EVENT) equals 70-73 for a vehicle involved in the first harmful event, any VIOLATIONS CHARGED equals 36 for a vehicle involved in the first harmful event,	RELATION TO JUNCTION (b) must not equal 02. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).
(D530)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> for a person involved in the first harmful event equals 211, 212, <b>461</b> , 465, 680, 830, 890, 900 or 910,	RELATION TO JUNCTION (b) must equal 04 or 08. Note: this edit is restricted to vehicles which are involved in only one event with bicyclist(s)
(PB04)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLE</b> for a person involved in the first harmful event equals 311, 312, <b>313</b> , 321, 322 or <b>323</b> ,	RELATION TO JUNCTION (b) must equal 02 or 03. Note: this edit is restricted to vehicles which are involved in only one event with bicyclist(s).
(PB07)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLE</b> for a person involved in the first harmful event equals 141-144, 147, 151-157 or 159,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> must not equal 320, 330, 360, 680, 830, 890, 900, or 910.
(PB08)	NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 01, and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02,	
(PB34)		

	IF	THEN
(PB35)	NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 01, and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02,	PEDESTRIAN/BIKE TYPING - <b>CRASH LOCATION - PEDESTRIAN</b> must equal 1.

### Consistency Checks (GES Only)

	IF	THEN
(A3G0)	INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20,	TOTAL LANES IN ROADWAY should not equal 1 for at least one vehicle involved in the first harmful event.
(A3H0)	INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20,	TRAFFICWAY DESCRIPTION should not equal 4 for at least one vehicle involved in the first harmful event.
(A3I0)	INTERSTATE HIGHWAY equals 1,	RELATION TO JUNCTION (b) should not equal 02, 04, 06, 08 or 16.
(A3J0)	INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20,	SPEED LIMIT should not equal 01-40 for at least one vehicle involved in the first harmful event.
(A930)	INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20,	TRAFFIC CONTROL DEVICE should not equal 01-03, 20, 23 or 65 for at least one vehicle involved in the first harmful event.

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## **TYPE OF INTERSECTION**

**FORMAT:** 2 numeric

**SAS NAME:** Accident.Typ\_Int

**ELEMENT VALUES:**

- 1 Not an Intersection
- 2 Four-Way Intersection
- 3 T-Intersection
- 4 Y-Intersection
- 5 Traffic Circle
- 6 Roundabout
- 7 Five-Point, or More
- 10 L-Intersection
- 98 Not Reported
- 99 Unknown

**Definition:** This element identifies and allows separation of various intersection types.

**Remarks:**

The data element value selected should be based on the location of the first harmful event and is only applicable to intersection or intersection-related crashes. If it is known that a rotary type of intersection was involved but it is not known if it was a traffic circle or a roundabout, default to a traffic circle.

Intersection refers to an area which 1) contains a crossing or connection of two or more roadways not classified as driveway access and 2) is embraced within the prolongation of the lateral curb lines, or, if none, the lateral boundary lines of the roadways. Where the distance along a roadway between two areas meeting these criteria is less than 33 feet, the two areas and the roadway connecting them are considered to be parts of a single intersection. (See ANSI D.16 - 2.5.10)

- 1 (**Not an Intersection**) identifies that this crash was not intersection or intersection-related.
- 2 (**Four-Way Intersection**) refers to two roadways which cross or connect.
- 3 (**T-Intersection**) refers to an intersection where two roadways connect and one roadway does not continue across the other roadway. The roadways form a "T".
- 4 (**Y-Intersection**) refers to an intersection where three roadways connect and none of the roadways continue across the other roadways. The roadways form a "Y".

**5 (Traffic Circle)** refers to an intersection of roads where motor vehicles must travel around a circle to continue on the same road or leave on any intersecting road.

A 05 (**Traffic Circle**) must meet the following criteria:

- Entering traffic is controlled by a stop sign, traffic signal or by no traffic control
- Parking is allowed within the circle
- Pedestrians are allowed access to the central island
- Circle traffic can be required to yield to entering traffic

**6 (Roundabout)** refers to an intersection of roads where motor vehicles must travel around a circle to continue on the same road or leave on any intersecting road. (See diagram on following page.)

A 06 (**Roundabout**) must meet the following criteria:

- Entering traffic is controlled by a yield sign only
- Circulating traffic has the right of way
- Pedestrian access is allowed behind the yield sign line
- No parking is allowed in the circle

**7 (Five-Point, or More)** refers to an intersection where more than two roadways cross or connect.

**10 (L-Intersection)** refers to a two-armed intersection in which one roadway intersects with another roadway but neither roadway extends beyond the other roadway. (Note: this should be configured as an intersection where the arms consist of two different named trafficways.)

### **98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code 98 (**Not Reported**) in these two situations:

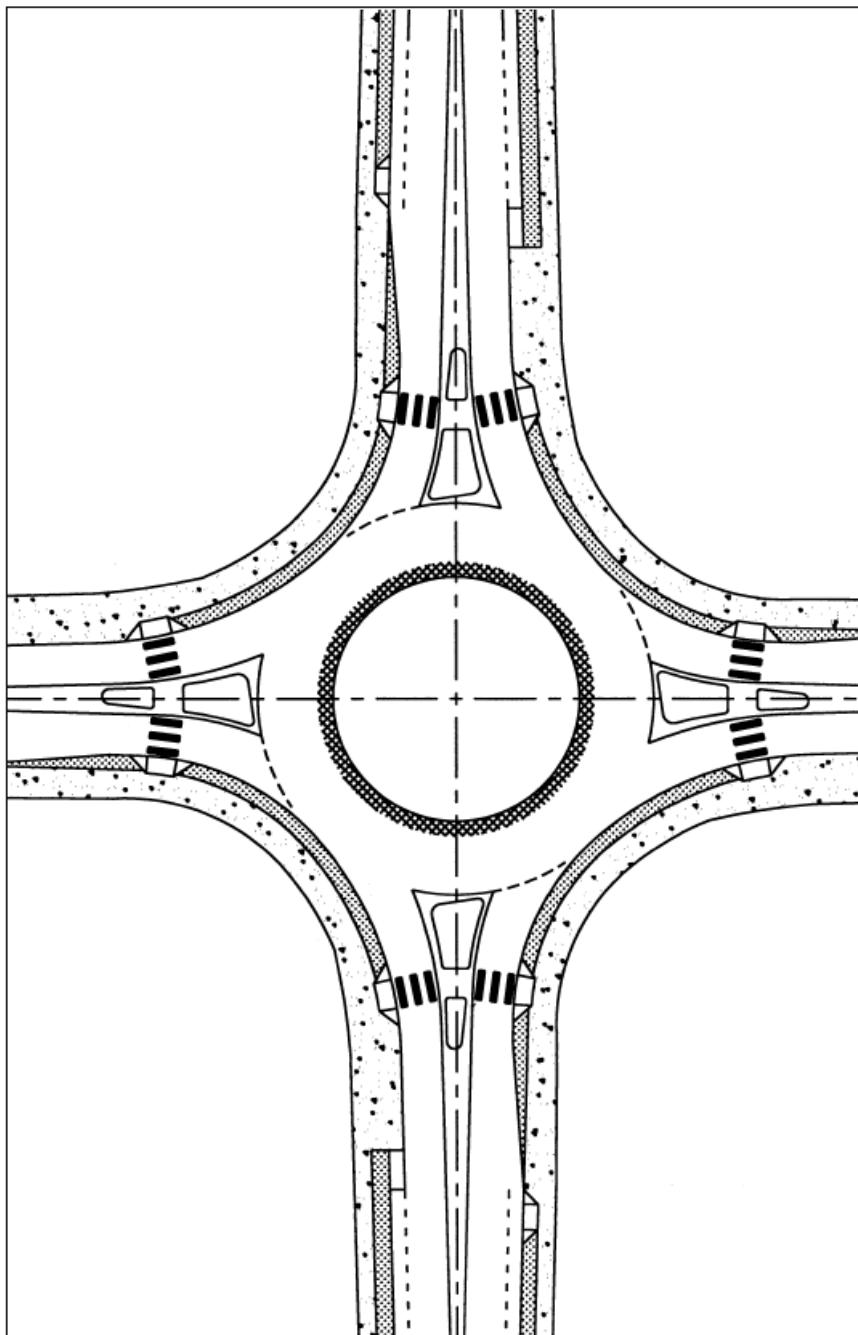
1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown)** is used when police indicate unknown.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(251P)	RELATION TO TRAFFICWAY equals 98, 99,	TYPE OF INTERSECTION should equal 98, 99.
(778P)	RELATION TO JUNCTION (b) equals 01, 04-08, 16-20,	TYPE OF INTERSECTION must equal 01.
(781P)	TYPE OF INTERSECTION equals 02-07, 10,	TRAFFICWAY IDENTIFIER (b) should not be blank.
(782P)	TYPE OF INTERSECTION equals 02-07, 10,	RELATION TO JUNCTION (b) must equal 02, 03.
(783P)	RELATION TO JUNCTION (b) equals 98, 99,	TYPE OF INTERSECTION should equal 01, 98, 99.
(784P)	TYPE OF INTERSECTION equals 01,	RELATION TO JUNCTION (b) must not equal 02, 03.

**Exhibit B-4.** Example of a typical single-lane roundabout.



## **RELATION TO TRAFFICWAY**

**FORMAT:** 2 numeric

**SAS NAME:** Accident.REL\_ROAD

**ELEMENT VALUES:**

	Blanks
1	On Roadway
2	On Shoulder
3	On Median
4	On Roadside
5	Outside Trafficway
6	Off Roadway – Location Unknown
7	In Parking Lane/Zone
8	Gore
10	Separator
11	Continuous Left-Turn Lane
98	Not Reported
99	Unknown

**Definition:** This element identifies the location of the crash as it relates to its position within or outside the trafficway based on the First Harmful Event.

**Remarks:**

**1 (On Roadway)** - The roadway is that part of a trafficway designed, improved and ordinarily used for motor vehicle travel or, where various classes of motor vehicles are segregated, that part of a trafficway used by a particular class. Separate roadways may be provided for northbound and southbound traffic or for trucks and automobiles. Roadway may be noted as the “travel lanes” and, if present, includes the area between the painted “fog lines”. Additionally, a driveway access area is considered part of the roadway of the trafficway to which it connects. This attribute may also be used for cases involving a parked vehicle opening a door into moving traffic, extended mirrors into the travel lane.

**2 (On Shoulder)** (if present) is that part of a trafficway contiguous with the roadway for emergency use, for accommodation of stopped vehicles, and for lateral support of the roadway structure. A shoulder should be improved or maintained for these purposes. Not all roadways have shoulders.

**3 (On Median)** is defined as that area of a divided trafficway between parallel roads separating travel in opposite directions. The principal functions of a median are to provide the desired freedom from interference of opposing traffic, to provide a recovery area for out-of-control vehicles, to provide a stopping area in case of emergencies, and to minimize headlight

glare. Medians may be depressed, raised or flush. Flush medians can be as little as 4-feet wide between roadway edge lines. Painted roadway edge lines four (4) or more feet wide denote medians. Medians of lesser width must have a barrier to be considered a median. Continuous Left-turn Lanes are not considered Medians (see **11 (Continuous Left-Turn Lane)**).

**4 (On Roadside)** refers to a location off the roadway, but inside the right-of-way. It is the outermost part of the trafficway which lay between the outer property line or other barrier and the edge of the first road encountered in the trafficway. Bicycle lanes and shared use path or trails contiguous with the roadway and sidewalks are also included. ***For cases involving a vehicle that goes off the roadway into a "tree line", "wood line", "brush line", etc. that is adjacent to the roadway, code as 04 (On Roadside) unless there is specific information available in the case materials that identify the First Harmful Event was beyond the boundaries of the trafficway (e.g., a "tree line" in a homeowners front yard).*** In addition, use this attribute if the first harmful event occurs in a raised or painted center island (directional or channeling) of a traffic circle, roundabout or junction.

**5 (Outside Trafficway)** is used for areas not open to the public as a matter of right or custom for moving persons or property. This includes property beyond the roadside outside the boundaries of the trafficway. Also, a portion of the trafficway closed for construction is not a trafficway and would be considered **05 (Outside Trafficway)**.

**6 (Off Roadway - Location Unknown)** refers to a location off the roadway, but its relationship to the trafficway boundaries/right-of-way is not known. This should only be used when no reasonable assessment can be made as to the location of the FHE because the information in the case is too ambiguous.

**7 (In Parking Lane/Zone)** refers to an area on the roadway, or next to the roadway, on which parking is permitted in marked or unmarked spaces. This includes curbside and edge of-roadway parking (for example, legal residential parking, city-street parking, etc.). Sometimes a strip of roadway can be designated for parking at certain hours of the day (parking lane) and for regular travel at other hours (travel lane). This code should NOT be used during hours when parking is NOT permitted (see **01 (On Roadway)**).

**8 (Gore)** is an area of land where two roadways diverge or converge. The area is bounded on two sides by the edges of the roadway, which join at the point of divergence or convergence. The direction of traffic must be the same on both of these roadways. The area includes shoulders or marked pavement if any, between the roadways. The third side is 60 meters (approximately 200 feet) from the point of divergence or convergence or, if any other road is within 70 meters (230 feet) of that point, a line 10 meters (33 feet) from the nearest edge of such road.

**Gore Inclusions:**

- Areas at rest area or exit ramps
- Areas at truck weight station entry or exit ramps
- Areas where two main roadways diverge or converge

- Areas where a ramp and another roadway or two ramps, diverge or converge
- Areas where a frontage road and another roadway or two frontage roads diverge or converge

**Gore Exclusions:**

- Islands for channelizing of vehicle movements
- Islands for pedestrian refuge

**10 (Separator)** is the area of a trafficway between parallel roads separating travel in the same direction or separating a frontage road from other roads. A **10 (Separator)** may be a physical barrier or a depressed, raised, flush or vegetated area between roads.

**11 (Continuous Left-Turn Lane)** is a two-way left turn lane positioned between opposing straight-through travel lanes.

**98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown)** is used when police indicate unknown.

**Additional Guidance for Relation to Trafficway**

For collision events when the vehicle is overlapping adjacent areas:

- For fixed object collisions (FHE), base "Relation to Trafficway" on the location of the object struck.
- Fixed objects that are associated with the trafficway such as curbs, ditches, guardrails, sign supports, utility poles, etc. are not located in the travel lanes or on the shoulder. Therefore, when these fixed objects are contacted in the FHE, Relation to Trafficway should be coded as **04 (On Roadside)**, regardless of the location of the entire vehicle.
- Non-fixed object collisions (e.g., striking a vehicle on the shoulder or pedestrian on the sidewalk) when the striking vehicle is overlapping two locations (e.g., roadway and shoulder) are also coded with respect to the object contacted, not the striking vehicle.

For Rollover/Overtturn crashes when the vehicle is overlapping two locations (e.g., roadway and shoulder) when the roll begins:

- When a vehicle begins an overturn and is overlapping two locations at the onset of the overturn, use the LAST area the vehicle entered as the location. For example, Roadside would be correct for a case where the documentation identifies a vehicle runs off the roadway, partially through the shoulder, and the front wheels enter the roadside.

Default rules for the location of Ditches, Culverts, Embankments and Fences:

- Unless there is clear reason to believe otherwise in the case materials, ditches, culverts and embankments are design features common to trafficways. Therefore, if included as the FHE the appropriate Relation to Trafficway is **04 (On Roadside)**.
- Unless there is clear reason to believe otherwise in the case materials (e.g., a snow fence in the median), a fence either surrounds private property outside the trafficway or marks the property line boundary ending the trafficway. Therefore, if included as the FHE the appropriate Relation to Trafficway is **05 (Outside Trafficway)**.

#### Consistency Checks:

IF	THEN
(250P) RELATION TO JUNCTION (b) equals 01, 02, 04, 06, 07, 16-19, 98, 99, and RELATION TO TRAFFICWAY equals 03,	TRAFFICWAY DESCRIPTION should equal 2, 3 for at least one vehicle involved in the first harmful event.
(251P) RELATION TO TRAFFICWAY equals 98, 99,	TYPE OF INTERSECTION should equal 98, 99.
<b>(252P) RELATION TO TRAFFICWAY equals 01, 02, 03, 04, 07, 08, 10, 11, 98 or 99,</b>	<b>UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the first harmful event must not equal 3.</b>
(253P) RELATION TO TRAFFICWAY equals 03,	CRASH TYPE should equal 06-10, 98 or 99 for the in-transport vehicles involved in the first harmful event.
(254P) RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 20,	TRAFFICWAY DESCRIPTION must equal 6 for at least one vehicle involved in the first harmful event.
<b>(255P) RELATION TO TRAFFICWAY equals 01 or 11,</b>	<b>UNIT TYPE for VEHICLE NUMBER (THIS VEHICLE) involved in the first harmful event must equal 1.</b>
<b>(256P) RELATION TO TRAFFICWAY equals 01 or 11,</b>	<b>UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the first harmful event should equal 1 or 4.</b>

IF	THEN
(257P) <b>RELATION TO TRAFFICWAY equals 05,</b>	<b>UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the first harmful event must equal 1, 3 or 4.</b>
(42AP) NUMBER OF MOTOR VEHICLES FORMS SUBMITTED equals 001, and RELATION TO TRAFFICWAY equals 02, 04, 06-08, and ATTEMPTED AVOIDANCE MANEUVER equals 00 or 01,	CRITICAL EVENT – PRECRASH (EVENT) should equal 01-06, 08-14 or 19.
(440F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 01,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 01-03, 09-11, 13, 16, 23, 98 or 99.
(450F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 07,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 14.
(460F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 02,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 02, 20.
(470F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 03, 08, 10,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 20, 22, 98, 99.
(480F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 04, 06,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 16, 20, 21, 24, 25, 28, 98, 99.
(490F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 05,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 24, 25.
(530F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 99,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 98, 99.
(531F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 11,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 11.

IF	THEN
(580F) FIRST HARMFUL EVENT equals 14, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL does not equal 32, 89 for at least one occupant in the not in-transport motor vehicle involved in the first harmful event,	RELATION TO TRAFFICWAY should not equal 01.
(730P) RELATION TO JUNCTION (b) equals 07,	RELATION TO TRAFFICWAY must not equal 04-07, 10, 11, 99.
(770P) RELATION TO TRAFFICWAY equals 07,	RELATION TO JUNCTION (b) must equal 01, 03, 08, 19, 98, 99.
(772P) RELATION TO TRAFFICWAY equals 07,	RELATION TO JUNCTION (a) must not equal 1.
(77DP) RELATION TO TRAFFICWAY equals 07, and RELATION TO JUNCTION (a) equals 1,	RELATION TO JUNCTION (b) should not equal 03, 08.
(780P) RELATION TO TRAFFICWAY equals 10,	RELATION TO JUNCTION (b) must not equal 02, 04, 08.
(A1E0) RELATION TO JUNCTION (b) equals 19,	RELATION TO TRAFFICWAY must not equal 01, 05, 11, 98, 99.
(A1E1) RELATION TO JUNCTION (b) equals 20,	RELATION TO TRAFFICWAY must equal 01.
<b>(A131) RELATION TO JUNCTION (b) equals 02, 04, 06, 16, 17, or 20,</b>	<b>RELATION TO TRAFFICWAY must equal 01.</b>
<b>(A141) RELATION TO JUNCTION (b) equals 18,</b>	<b>RELATION TO TRAFFICWAY must equal 01 or 11.</b>
(A380) FIRST HARMFUL EVENT equals 01 and this vehicle is involved in the first harmful event, and BODY TYPE does not equal 80-89 for this vehicle, and RELATION TO TRAFFICWAY equals _____,	LOCATION OF ROLLOVER should equal _____ respectively.
(A390) FIRST HARMFUL EVENT equals 17, 19-21, 23-26, 30-35, 38-43, 52, 53, 57,	RELATION TO TRAFFICWAY should not equal 01, 02, 07, 11.
<b>(A421) FIRST HARMFUL EVENT equals 24, 25, 30, 33, 34, 35, 40, 46, 52, 57, 59,</b>	<b>RELATION TO TRAFFICWAY should equal 03, 04, 08 or 10.</b>
<b>(A4B0) CRASH TYPE equals 01-10 or 14,</b>	<b>RELATION TO TRAFFICWAY must not equal 01, 02, 07 or 11. <u>If the First Harmful Event occurs on a different road, than the road it departed, see 98 (Other Crash Type).</u></b>
<b>(A4B2) CRASH TYPE equals 11,</b>	<b>RELATION TO TRAFFICWAY must not equal 01, 03, 04, 05, 08, 10 or 11.</b>

IF	THEN
(A4B3) <b>CRASH TYPE equals 12 or 13,</b>	<b>RELATION TO TRAFFICWAY must not equal 03, 05, 08 or 10.</b>
(A4B4) <b>CRASH TYPE equals 12 or 13,</b>	<b>RELATION TO TRAFFICWAY should not equal 04 unless the First Harmful Event occurs in a Bicycle Lane.</b>
(A610) RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 05,	TRAFFICWAY DESCRIPTION should equal 6 for at least one vehicle involved in the first harmful event.
(A61F) FIRST HARMFUL EVENT equals 08, 09, 11, 15, 49, and RELATION TO TRAFFICWAY equals 01, 02, 07, 11, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) is not equal to 00, 13 for the vehicle involved in the first harmful event,	CRASH TYPE should equal 13 for the vehicle involved in the first harmful event.
(A620) CRASH TYPE equals 06-10, and TRAFFICWAY DESCRIPTION equals 3,	RELATION TO TRAFFICWAY should equal 03.
(A62F) FIRST HARMFUL EVENT equals 18 43 or <b>73</b> , and RELATION TO TRAFFICWAY equals 01 or 11,	CRASH TYPE should equal 12 or 15 for the vehicle involved in the first harmful event.
(A800) FIRST HARMFUL EVENT equals 46,	RELATION TO TRAFFICWAY should not equal 01, 02, 05, 07, 11.
(A881) RELATION TO TRAFFICWAY equals 11,	TRAFFICWAY DESCRIPTION should equal 5 for at least one vehicle.
(A882) RELATION TO TRAFFICWAY equals 07,	ROUTE SIGNING should not equal 1.
(A883) RELATION TO TRAFFICWAY equals 07,	ROADWAY FUNCTION CLASS should not equal 01, 11, 12.
(PB05) PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> for a person involved in the first harmful event equals 311, 312 or 313,	RELATION TO TRAFFICWAY must equal 01 or 11. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).
(PB12) PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> for a person involved in the first harmful event equals 510, 520 or 590,	RELATION TO TRAFFICWAY must not equal 01 or 11. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).
(PC20) RELATION TO TRAFFICWAY equals 02-08 or 10,	PRE-IMPACT LOCATION of the vehicle(s) involved in the first harmful event should equal 0, 4, 5 or 9.
(PC30) PRE-IMPACT LOCATION for a vehicle involved in the first harmful event equals 4, 5,	RELATION TO TRAFFICWAY should not equal 01 or 11.

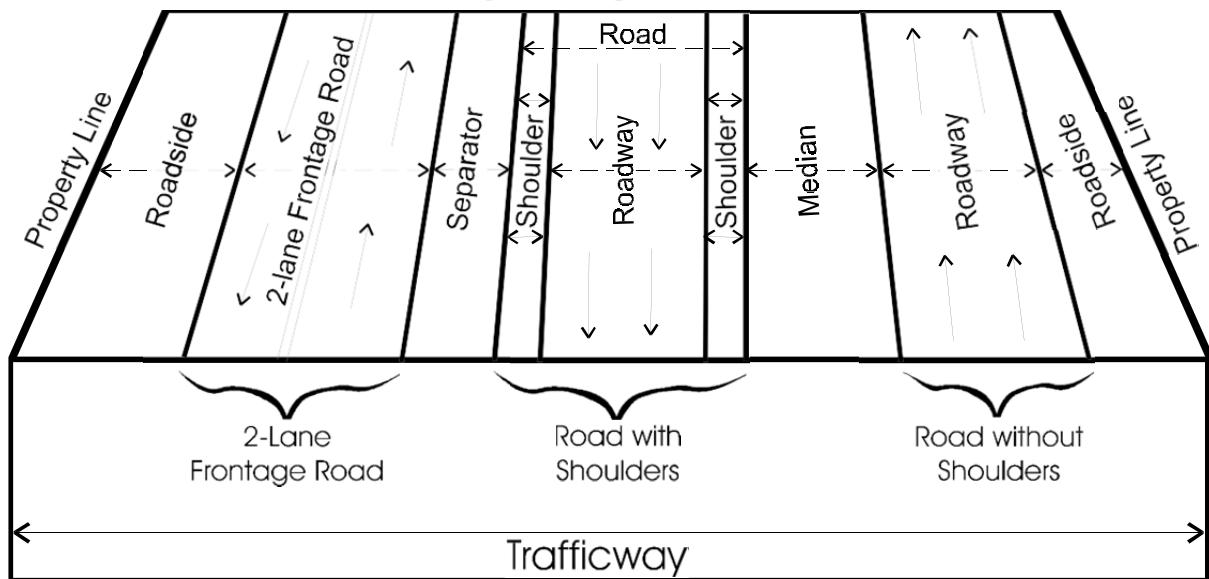
**IF**

**THEN**

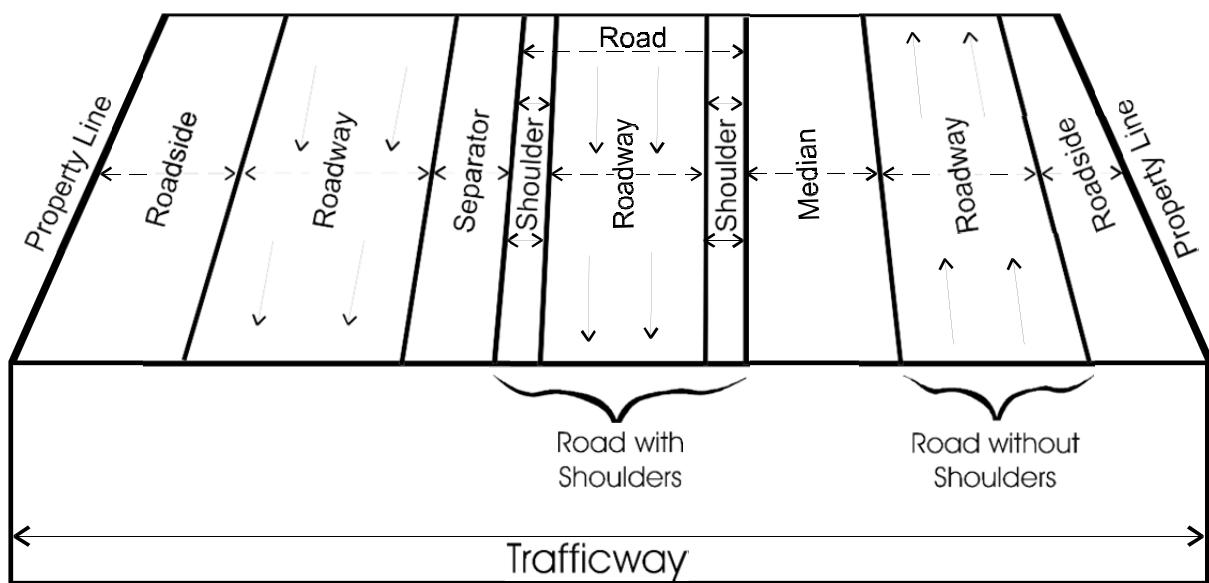
(PC40) PRE-IMPACT LOCATION for a vehicle involved in the first harmful event equals 1-3, 6,

RELATION TO TRAFFICWAY should equal 01 or 11.

## TRAFFICWAY WITH FRONTAGE ROAD



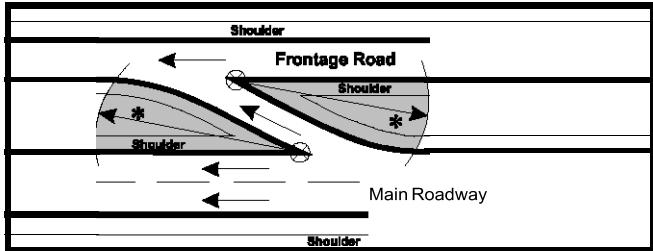
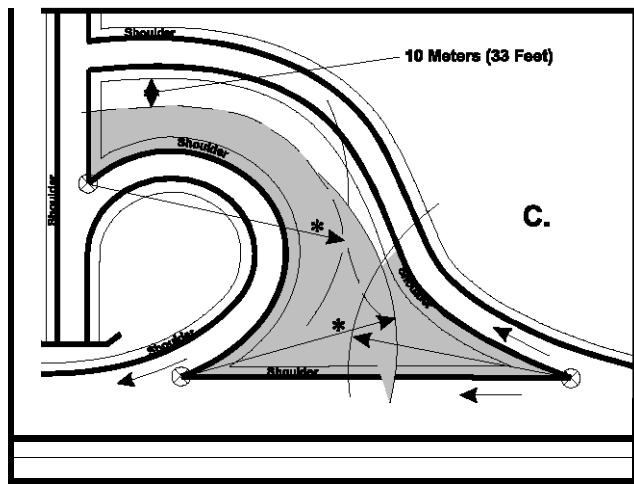
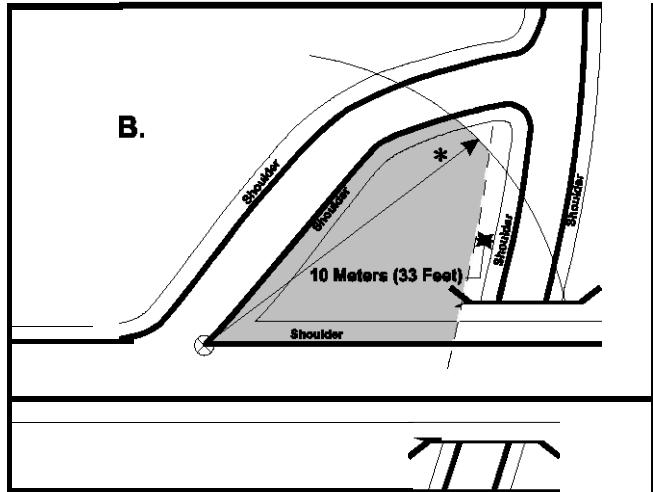
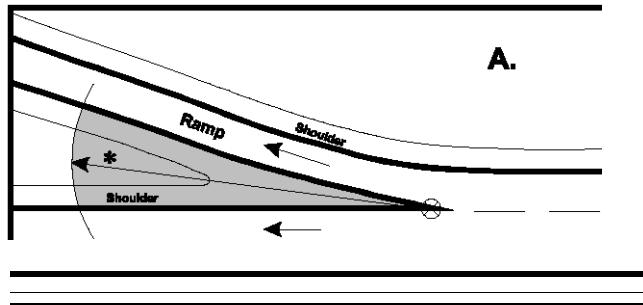
## TRAFFICWAY WITH MULTIPLE ROADWAYS IN THE SAME DIRECTION



**GORE**  
(2.5.19)

— Gore  
Radius of 60 Meters

\* (About 200 Feet)



## **WORK ZONE**

**FORMAT:** 1 numeric

**SAS NAME:** Accident.Wrk\_Zone

**ELEMENT VALUES:**

- 0     None
- 1     Construction
- 2     Maintenance
- 3     Utility
- 4     Work Zone, Type Unknown

**Definition:** This data element captures that this was a "Work Zone Accident" as defined in ANSI D16.1, 7th Edition. If the crash qualifies as a "Work Zone Accident" then the type of work activity is identified.

**Remarks:**

If the crash is a work zone crash, work zone type must be clearly distinguished within the case materials; otherwise **4 (Work Zone, Type Unknown)** should be used.

The use of these codes does not imply that the crash was caused by the construction, maintenance or utility activity.

**Work Zone:**

A work zone is defined as an area of a trafficway where construction, maintenance or utility work activities are identified by warning signs/signals/ indicators, including those on transport devices (e.g., signs, flashing lights, channelizing devices, barriers, pavement markings, flagmen, warning signs and arrow boards mounted on the vehicles in a mobile maintenance activity) that mark the beginning and end of a construction, maintenance or utility work activity. It extends from the first warning sign, signal or flashing lights to the END ROAD WORK sign or the last traffic control device pertinent for that work activity. Work zones also include roadway sections where there is ongoing, moving (mobile) work activity such as lane line painting or roadside mowing only if the beginning of the ongoing, moving (mobile) work activity is designated by warning signs or signals.

**Work Zone Crash:**

A work zone crash is a motor vehicle traffic crash in which the first harmful event occurs within the boundaries of a work zone or on an approach to or exit from a work zone, resulting from an activity, behavior or control related to the movement of the traffic units through the work zone.

See 7<sup>th</sup> Edition of ANSI D16.1 definitions of “Work Zone” and “Work Zone Accident” for inclusions and exclusions.

To determine which attribute is appropriate, the duration of the work must be considered. If the work is short-term (i.e., takes less than one period of daylight and is not performed during hours of darkness), **2 (Maintenance)** or **3 (Utility)** are applicable. If the maintenance or utility work is long-term, **1 (Construction)** must be used.

**0 (None)** is used when there is no indication that the crash is a work zone crash as defined above.

**1 (Construction)** is used when the available information indicates that there is long-term stationary construction such as building a new bridge, adding travel lanes to the roadway, extending an existing trafficway, etc. Highway construction includes construction of appurtenances such as guardrails or ditches, surveying activity, installation of utilities within the right-of-way, etc.

**2 (Maintenance)** is used when the available information indicates that there are work activities, including moving work activities, such as striping the roadway, median and roadside grass mowing/landscaping, pothole repair, snowplowing, etc., where there are warning signs or signals marking the beginning of the moving work area.

**3 (Utility)** is used when the available information indicates that there is short-term stationary work such as repairing/maintaining electric, gas, water lines or traffic signals. The utility company must perform the work.

**4 (Work Zone, Type Unknown)** is used when there is insufficient information to distinguish between **1 (Construction)**, **2 (Maintenance)** or **3 (Utility)**.

#### **Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(A293)	WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 02, 03,	TRAFFIC CONTROL DEVICE should equal 01-03, 20, 40, 97 or 98 for the vehicle(s) involved in the first harmful event.
(A294)	WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 01, 04, 05, 08, 17-19,	TRAFFIC CONTROL DEVICE should equal 00, 21, 28, 40, 50, 97 or 98 for the vehicle(s) involved in the first harmful event.
(A470)	WORK ZONE equals 0, and TRAFFICWAY DESCRIPTION equals 1-3, 5,	TOTAL LANES IN ROADWAY should not equal 1.
(AL2P)	SEQUENCE OF EVENTS equals 45,	WORK ZONE should equal 1-4.

## **LIGHT CONDITION**

**FORMAT:** 1 numeric

**SAS NAME:** Accident.LGT\_COND

**ELEMENT VALUES:**

- 1 Daylight
- 2 Dark - Not Lighted
- 3 Dark - Lighted
- 6 Dark - Unknown Lighting
- 4 Dawn
- 5 Dusk
- 7 Other
- 8 Not Reported
- 9 Unknown

**Definition:** This element records the type/level of light that existed at the time of the crash as reported in the case materials.

**Remarks:**

**2 (Dark - Not Lighted)** is used when the available information describes a condition where no “natural” light exists and no overhead “man-made” lighting is present on the roadway where the crash occurs.

**3 (Dark - Lighted)** is used when the available information describes a condition where no “natural” light exists but there is overhead “man-made” lighting on the roadway where the crash occurs. Lighted areas will generally include streets within cities or towns and some interchange areas. This does not include lighting from store fronts, houses, parking lots, etc.

**6 (Dark - Unknown Lighting)** is used if it cannot be determined if **2 (Dark - Not Lighted)** or **3 (Dark - Lighted)** applies.

Sometimes the case materials will have conflicting information because more than one light condition is indicated in the coded boxes and/or the narrative. If necessary, use the crash time to aid in determining the “best” attribute.

**4 (Dawn)** describes the transition period going from “dark of night” to a daylight condition. This is typically the 30-minute period before the sun rises.

**5 (Dusk)** describes the transition period going from a daylight condition to the “dark of night”. This is typically the 30 minute period after the sun sets.

Rules for determining applicable attribute:

1. If **4 (Dawn)** or **5 (Dusk)** are marked then use the crash time to select either **4 (Dawn)** or **5 (Dusk)**.
2. If **3 (Dark - Lighted)** and **4 (Dawn)** are marked then use **4 (Dawn)**.
3. If **3 (Dark - Lighted)** and **5 (Dusk)** are marked then use **5 (Dusk)**.
4. If **Dark** and **5 (Dusk)** are marked then use **5 (Dusk)**.
5. If **Dark** and **4 (Dawn)** are marked then use **4 (Dawn)**.
6. If more than 2 attributes are checked then use **9 (Unknown)**.

**7 (Other)** is used when the conditions above do not apply.

### **8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**9 (Unknown)** is used when the investigating officer indicates that the lighting condition was unknown.

### **Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(220P)	LIGHT CONDITION equals 4, and STATE is not equal to 02,	CRASH TIME must equal 0300-0900, 9999.
(2300)	LIGHT CONDITION equals 5, and STATE is not equal to 02,	CRASH TIME must equal 1600-2200, 9999.
(A010)	STATE equals 02, and LIGHT CONDITION equals 4,	CRASH TIME should equal 0300-1000, 9999.
(A020)	STATE equals 02, and LIGHT CONDITION equals 5,	CRASH TIME should equal 1500-2359, 9999.
(A050)	CRASH TIME equals 0900-1600,	LIGHT CONDITION should not equal 2-6.
(A060)	CRASH TIME equals 2300-0400,	LIGHT CONDITION should not equal 1, 4, 5, 9.

**IF**

**THEN**

(U390) UNLIKELY: LIGHT CONDITION equals 8.

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## ATMOSPHERIC CONDITIONS

**FORMAT:** 2 numeric - occurring 2 times.

**SAS NAME:** Accident.Weather; Accident.Weather1; Accident.Weather2

**ELEMENT VALUES:**

- 1 No Additional Atmospheric Conditions
- 2 Clear
- 10 Cloudy
- 2 Rain
- 3 Sleet or Hail
- 12 Freezing Rain or Drizzle
- 04 Snow
- 11 Blowing Snow
- 5 Fog, Smog, Smoke
- 6 Severe Crosswinds
- 7 Blowing Sand, Soil, Dirt
- 8 Other
- 98 Not Reported
- 99 Unknown

**Definition:** This element identifies the prevailing atmospheric conditions that existed at the time of the crash as recorded on the crash report form.

**Remarks:**

If the case materials indicate more than two atmospheric conditions, select the two conditions that most affect visibility. If the case materials record a combination of attributes use two atmospheric condition attributes to reflect this situation. (e.g. clear/cloudy would be recorded as **01 (Clear)** and **10 (Cloudy)**.)

**1 (No Additional Atmospheric Conditions)** should only be used for the second Atmospheric Condition subfield, when there is no second Atmospheric Condition listed on your case materials.

**2 (Clear)** includes partial cloudiness if sunlight is not diminished. If your case materials indicate no adverse conditions, use **01 (Clear)**.

**10 (Cloudy)** usually refers to “overcast” but may include partial cloudiness if light is diminished.

**2 (Rain)** refers to precipitation other than snow, hail or sleet. Mist should be coded as **02 (Rain)**.

**3 (Sleet or Hail)** would apply to conditions where precipitation is falling as ice (sleet or hail)

**12 (Freezing Rain or Drizzle)** would apply when precipitation is falling as liquid (rain) and then freezing on the roadway.

**04 (Snow)** is used when precipitation is falling as frozen flakes at the time of the crash.

**11 (Blowing Snow)** applies to snow that is falling and/or to snow that has fallen to the ground and is set aloft by wind.

**5 (Fog, Smog, Smoke)** refers to a natural or man-made condition that causes reduced visibility.

**6 (Severe Crosswinds)** refers to winds traveling at an angle with respect to the travel lanes at velocities significant enough to create a risk that vehicles could be diverted from their path or high profile vehicles could be blown over. These are winds that are strong enough to affect vehicle stability.

**7 (Blowing Sand, Soil, Dirt)** refers to particulate matter set aloft by winds creating a condition of reduced visibility which constitutes a hazard for vehicles operating in the area. This attribute should be used for “dust storms.” This attribute should not be used in conjunction with **06 (Severe Crosswinds)** unless the winds are affecting vehicle stability in addition to reducing visibility.

**8 (Other)** atmospheric conditions not described above.

**98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported**”.

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown)** is used when police indicate unknown.

**Consistency Checks:**

IF	THEN
(A030) CRASH MONTH equals 05-09,	ATMOSPHERIC CONDITIONS should not equal 03, 04, 11, 12.
(A1A0) ROADWAY SURFACE CONDITIONS equals 01 for a vehicle involved in the first harmful event,	ATMOSPHERIC CONDITIONS should not equal 02-04, 11, 12.
(A510) any ATMOSPHERIC CONDITIONS equals 02-04, 11, 12,	ROADWAY SURFACE CONDITIONS should not equal 01, 07, 08, 99 for any vehicle.
(AT00) An ATMOSPHERIC CONDITIONS 01-08, 10-12, 98, 99 can be used only once per crash.	
(AT10) the first ATMOSPHERIC CONDITIONS equals 99,	the second ATMOSPHERIC CONDITIONS must equal 00.
(AT20) the first ATMOSPHERIC CONDITIONS equals 01-08, 10-12, 99,	the second ATMOSPHERIC CONDITIONS must not equal 99.
(AT30) First ATMOSPHERIC CONDITIONS must not equal 00.	
(AT40) the first ATMOSPHERIC CONDITIONS equals 01,	the second ATMOSPHERIC CONDITIONS must equal 00 or 10.

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## **SCHOOL BUS RELATED**

**FORMAT:** 1 numeric

**SAS NAME:** Accident.SCH\_BUS, Person.SCH\_BUS

**ELEMENT VALUES:**

- |   |     |
|---|-----|
| 0 | No  |
| 1 | Yes |

**Definition:** This data element indicates if a school bus, or motor vehicle functioning as a school bus, is related to the crash.

**Remarks:**

The “school bus” can be:

- with or without a passenger(s) on board
- involved as a contact motor vehicle, or
- indirectly involved as a non-contact motor vehicle

A school bus is a motor vehicle used for the transportation of any school pupil at or below the 12th-grade level to or from a public or private school or school-related activity. A motor vehicle is not a school bus while on trips which involve the transportation exclusively of other passengers or exclusively for other purposes.

A motor vehicle is a school bus only if it is externally identifiable by the following characteristics:

1. Its color is yellow
2. The words “school bus” appear on the front and rear
3. Flashing red lights are located on the front and rear
4. Lettering on both sides identifies the school or school district served, or the company operating the bus

**0 (No)** is used when there is no indication of a school bus, or motor vehicle functioning as a school bus, being involved in the crash.

**1 (Yes)** is used when there is any indication that a school bus, or vehicle functioning as a school bus, is involved in any component of the crash.

For directly involved or contacted vehicles, **1 (Yes)** must be selected if the Special Use data element equals **02 (Vehicle Used as a School Bus)**.

To capture those instances where the vehicle is involved indirectly (non-contact vehicle) the following rules apply:

- If the case materials indicate “School Bus” the assumption is that the Law Enforcement agency conformed to the definition of school bus, thus **1 (Yes)** School Bus Related.
- If there is no indication that a school bus was indirectly involved **0 (No)** must be selected.

#### **Examples of School Bus Related (indirectly):**

1. A police reported “school bus” stops on the roadway. Subsequently an approaching motor vehicle swerves to avoid the stopped bus and contacts another motor vehicle head-on.
2. A police report indicates that a “child” exited a “school bus” and was crossing in front of the stopped bus when a vehicle passed the bus on the left side and struck the child.
3. A line of cars is stopped for a school bus which is discharging passengers. A motor vehicle approaches and is unable to stop in time and strikes the last stopped motor vehicle in the line.

#### **Examples of NOT School Bus Related:**

1. An empty school bus, having completed its route, is parked along side the road. A motor vehicle approaching from the rear loses control and strikes the bus.
2. A “Bus” is reported as stopped in traffic and a vehicle swerves to avoid the bus and contacts another vehicle. In this example, there is no positive indication of a “school bus” being involved.

#### **Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(3D0P)	SPECIAL USE for any vehicle equals 02,	SCHOOL BUS RELATED must equal 1.
(PB22)	SCHOOL BUS RELATED equals 1, and PERSON TYPE equals 05 or 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 342.
(PB23)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 342, and PERSON TYPE equals 05 or 08,	SCHOOL BUS RELATED should equal 1.

<b>IF</b>	<b>THEN</b>
(V330) SCHOOL BUS RELATED equals 1,	BODY TYPE of at least one of the involved vehicles should equal 50 (School Bus), or SPECIAL USE for at least one involved vehicle should equal 02 - Vehicle Used as School Bus, and BUS USE for at least one vehicle should equal 01.
(V440) BODY TYPE equals 50,	SCHOOL BUS RELATED should equal 1.

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## **RAIL GRADE CROSSING IDENTIFIER**

### **(FARS Only)**

**FORMAT:** 6 numeric followed by 1 alphabetic

**SAS NAME:** Accident.RAIL

**ELEMENT VALUES:**

0000000 Not Applicable

nnnnnnA Six Numeric, Followed by One Alphabetic Valid F.R.A. Codes

9999999 Unknown

**Definition:** This element identifies if the crash occurred in or near a Rail Grade Crossing.

**Remarks:**

Code complete identifier. The format must always be six numbers followed by a letter. (Two exceptions: **0000000 (Not Applicable)** and **9999999 (Unknown)**.)

Identifiers are obtainable from your Federal Railroad Administration representative.

**0000000 (Not Applicable)** is used for crashes that do not involve a rail grade crossing.

Code when any part of the crash occurs at a rail grade crossing. Include crashes in which a vehicle is waiting at a rail grade crossing but does not necessarily travel over the tracks.

Inform your COTR if you have any problems obtaining identifiers.

**Consistency Checks:**

IF	THEN
(1Y0P) RELATION TO JUNCTION(b) equals 06,	RAIL GRADE CROSSING IDENTIFIER must not equal 0000000.
(650P) TRAFFIC CONTROL DEVICE equals 65 for any vehicle,	RAIL GRADE CROSSING IDENTIFIER must not equal 0000000.
(750P) RELATION TO JUNCTION(b) equals 07,	RAIL GRADE CROSSING IDENTIFIER must equal 0000000.

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## **NOTIFICATION TIME EMS**

### **(FARS Only)**

**FORMAT:** 4 numeric

**SAS NAME:** Accident.NOT\_HOUR; Accident.NOT\_MIN

**ELEMENT VALUES:**

8888	Not Applicable (Not Notified)
0000-2359	Valid Military Times
0099-2399	Known Hours but Unknown Minutes
9998	Unknown if Notified
9999	Unknown EMS Notification Time

**Definition:** Notification Time EMS is the time Emergency Medical Service was notified.

**Remarks:**

Every effort should be made to determine the Notification Time EMS, Arrival Time EMS, and EMS Time At Hospital.

Code the official EMS times as received. **Do not alter the times because of discrepancies with the crash time.**

All EMS time formats are in hours and minutes. If you receive an EMS time that includes the seconds' position, truncate to the reported minutes. Example: 10:51:35 would be 10:51.

If the day of the crash and the day of EMS Notification have different dates, then be sure to use the **18 (Date of Crash and Date of EMS Notification Were Not the Same Day)** in Related Factors-Crash Level. Code Notification Time EMS and Arrival Time EMS no matter how much time has elapsed since the Crash Time.

**8888 (Not Applicable [Not Notified])**

Enter this code only if EMS was never notified. **DO NOT** use this code if the EMS was officially canceled. Cancellation is coded under Arrival Time EMS and EMS Time At Hospital. If the EMS was notified then canceled, code the actual notification time.

**0000 - 2359 (Valid Military Times), 0099 - 2399 (Known Hours but Unknown Minutes)**

Code Notification Time of the first EMS unit to arrive on the scene. If unknown minutes, code the actual hour and "99" for the minutes. Code midnight as "0000." One minute after midnight is coded "0001." See remarks "How to Code Midnight" under Crash Time.

**9998 (Unknown if Notified)**

Enter this attribute if you cannot determine whether or not any EMS was ever notified.

**9999 (Unknown EMS Notification Time)**

Enter this attribute if EMS was notified but the time of notification is unknown.

Helicopters that transport victims to treatment facilities are coded as EMS units, but not police who may be trained to render emergency aid. This guidance is not meant to exclude helicopters that are used to transport victims for treatment that may be owned by police departments.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(A070)	NOTIFICATION TIME EMS is not 8888, 9998 or 9999,	NOTIFICATION TIME EMS should not be more than 120 minutes later than CRASH TIME.
(A540)	NOTIFICATION TIME EMS is not 8888, 9998, or 9999, and ARRIVAL TIME EMS is not 8888, 9997, 9998, 9999,	ARRIVAL TIME EMS should not be more than 120 minutes later than NOTIFICATION TIME EMS.
(A560)	NOTIFICATION TIME EMS is not 8888, 9998, or 9999, and EMS TIME AT HOSPITAL is not 8888, 9997, 9998, 9999,	EMS TIME AT HOSPITAL should not be more than 180 minutes later than NOTIFICATION TIME EMS.
(E01P)	NOTIFICATION TIME EMS equals 9998,	ARRIVAL TIME EMS must equal 9998, and EMS TIME AT HOSPITAL must equal 8888 or 9998.
(E03P)	ARRIVAL TIME EMS equals 8888,	NOTIFICATION TIME EMS and EMS TIME AT HOSPITAL must equal 8888.
(E04P)	NOTIFICATION TIME EMS equals 8888,	ARRIVAL TIME EMS and EMS TIME AT HOSPITAL must equal 8888.
(E07P)	ARRIVAL TIME EMS equals 9997,	NOTIFICATION TIME EMS must not equal 8888, 9998.
(E08P)	NOTIFICATION TIME EMS is not 8888, 9998, and EMS TIME AT HOSPITAL is not 8888, 9996, 9997, 9998,	ARRIVAL TIME EMS must not equal 9997 or 9998.
(P093)	all persons TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 2, 4,	NOTIFICATION TIME EMS, ARRIVAL TIME EMS, EMS TIME AT HOSPITAL must equal 8888.

## **ARRIVAL TIME EMS** **(FARS Only)**

**FORMAT:** 4 numeric

**SAS NAME:** Accident.ARR\_HOUR; Accident.ARR\_MIN

**ELEMENT VALUES:**

8888	Not Applicable (Not Notified)
0000-2359	Valid Military Times
0099-2399	Known Hours but Unknown Minutes
9997	Officially Canceled
9998	Unknown if Arrived
9999	Unknown EMS Scene Arrival Time

**Definition:** Arrival Time EMS is the time Emergency Medical Service arrived on the crash scene.

**Remarks:**

This excludes any transport by anyone other than EMS. (Example: Law Enforcement or POV).

Every effort should be made to determine the Notification Time EMS, Arrival Time EMS, and EMS Time At Hospital.

Code the official EMS times as received. **Do not alter the times because of discrepancies with the crash time.**

All EMS time formats are in hours and minutes. If you receive an EMS time that includes the seconds' position, truncate to the reported minutes. Example: 10:51:35 would be 10:51.

Code Notification Time EMS and Arrival Time EMS no matter how much time has elapsed since the Crash Time.

**8888 Not Applicable [Not Notified]**

Enter this attribute only if EMS was never notified. **DO NOT** use this code if the EMS was notified then canceled.

**0000 - 2359 (Valid Military Times), 0099 - 2399 (Known Hours but Unknown Minutes)**

Code the arrival time of the first EMS unit to arrive on the scene. If unknown minutes, code the actual hour and "99" for the minutes. Code midnight as "0000." One minute after midnight is coded "0001". See remarks "How to Code Midnight" under Crash Time.

**9997 (Officially Canceled)**

Enter this attribute if EMS was officially canceled.

**9998 (Unknown if Arrived)**

Enter this attribute if there is no indication of official cancellation, but there is uncertainty or doubt that EMS ever arrived on the scene or not.

**9999 (Unknown EMS Scene Arrival Time)**

Enter this code if EMS did arrive on scene, but the time of arrival is unknown.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(A540)	NOTIFICATION TIME EMS is not 8888, 9998, or 9999, and ARRIVAL TIME EMS is not 8888, 9997, 9998, 9999,	ARRIVAL TIME EMS should not be more than 120 minutes later than NOTIFICATION TIME EMS.
(A550)	ARRIVAL TIME EMS is not 8888, 9997, 9998, or 9999, and EMS TIME AT HOSPITAL is not 8888, 9997, 9998, 9999,	EMS TIME AT HOSPITAL should not be more than 60 minutes later than ARRIVAL TIME EMS.
(E01P)	NOTIFICATION TIME EMS equals 9998,	ARRIVAL TIME EMS must equal 9998, and EMS TIME AT HOSPITAL must equal 8888 or 9998.
(E02P)	ARRIVAL TIME EMS equals 9998,	EMS TIME AT HOSPITAL must equal 8888 or 9998.
(E03P)	ARRIVAL TIME EMS equals 8888,	NOTIFICATION TIME EMS and EMS TIME AT HOSPITAL must equal 8888.
(E04P)	NOTIFICATION TIME EMS equals 8888,	ARRIVAL TIME EMS and EMS TIME AT HOSPITAL must equal 8888.
(E05P)	EMS TIME AT HOSPITAL equals 9997,	ARRIVAL TIME EMS must equal 9997.
(E06P)	ARRIVAL TIME EMS equals 9997,	EMS TIME AT HOSPITAL must equal 9997.
(E07P)	ARRIVAL TIME EMS equals 9997,	NOTIFICATION TIME EMS must not equal 8888, 9998.

	<b>IF</b>	<b>THEN</b>
(E08P)	NOTIFICATION TIME EMS is not 8888, 9998, and EMS TIME AT HOSPITAL is not 8888, 9996, 9997, 9998,	ARRIVAL TIME EMS must not equal 9997 or 9998.
(P093)	all persons TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 2, 4,	NOTIFICATION TIME EMS, ARRIVAL TIME EMS, EMS TIME AT HOSPITAL must equal 8888.

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## **EMS TIME AT HOSPITAL** **(FARS Only)**

**FORMAT:** 4 numeric

**SAS NAME:** Accident.HOSP\_HR; Accident.HOSP\_MN

**ELEMENT VALUES:**

8888	Not Applicable (Not Transported)
0000-2359	Valid Military Times
0099-2399	Known Hours but Unknown Minutes
9996	Terminated Transport
9997	Officially Canceled
9998	Unknown if Transported
9999	Unknown EMS Hospital Arrival Time

**Definition:** EMS Time At Hospital is the time Emergency Medical Service arrived at the treatment facility to which it was transporting victims of the crash.

**Remarks:**

This excludes any transport by anyone other than EMS. (Example: Law Enforcement or POV).

Every effort should be made to determine the Notification Time EMS, Arrival Time EMS, and EMS Time At Hospital.

Code the official EMS times as received. **Do not alter the times because of discrepancies with the crash time.**

All EMS time formats are in hours and minutes. If you receive an EMS time that includes the seconds' position, truncate to the reported minutes. Example: 10:51:35 would be 10:51.

Questions arise when there is more than one EMS unit or when there is more than one injured person. Code EMS Time At Hospital according to the following guidelines:

**8888 (Not Applicable [Not Transported])**

Use this attribute if all the injuries are on-scene fatalities (no one is transported for treatment.) Also use this attribute if there are live victims, but no one is transported to a treatment facility by EMS.

**0000 - 2359 (Valid Military Time), 0099 - 2399 (Known Hours but Unknown Minutes)**

Code the EMS time at hospital of the unit transporting the most severely injured victim. The most severely injured victim includes (and usually is) the victim who dies en route to the treatment facility or later, but not the one who dies on-scene.

If unknown minutes, code the actual hour and “99” for the minutes. Code midnight as “0000.” One minute after midnight is coded “0001.” See remarks. “How to Code Midnight” under Crash Time.

**9996 (Terminated Transport)**

Enter this attribute if there is indication that EMS was notified, arrived at the scene but while in transit terminated the trip to hospital because the person died en route. This attribute should not be used when there is a hospital arrival time available for a person dead on arrival at the hospital.

**9997 (Officially Canceled)**

Enter this attribute if EMS was officially canceled before on scene.

**9998 (Unknown if Transported)**

Enter this attribute if there is no indication of official cancellation, but there is un-certainty or doubt that any victims were transported for treatment or not.

**9999 (Unknown EMS Hospital Arrival Time)**

Enter this attribute if EMS transported victims for treatment, but the time of arrival at the hospital or treatment facility is unknown.

**Consistency Checks:**

IF	THEN
(A550) ARRIVAL TIME EMS is not 8888, 9997, 9998, or 9999, and EMS TIME AT HOSPITAL is not 8888, 9997, 9998, 9999,	EMS TIME AT HOSPITAL should not be more than 60 minutes later than ARRIVAL TIME EMS.
(A551) EMS TIME AT HOSPITAL equals 8888, 9997, 9998,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 1, 3, 5 for any PERSON.
(A560) NOTIFICATION TIME EMS is not 8888, 9998, or 9999, and EMS TIME AT HOSPITAL is not 8888, 9997, 9998, 9999,	EMS TIME AT HOSPITAL should not be more than 180 minutes later than NOTIFICATION TIME EMS.

	IF	THEN
(E01P)	NOTIFICATION TIME EMS equals 9998,	ARRIVAL TIME EMS must equal 9998, and EMS TIME AT HOSPITAL must equal 8888 or 9998.
(E02P)	ARRIVAL TIME EMS equals 9998,	EMS TIME AT HOSPITAL must equal 8888 or 9998.
(E03P)	ARRIVAL TIME EMS equals 8888,	NOTIFICATION TIME EMS and EMS TIME AT HOSPITAL must equal 8888.
(E04P)	NOTIFICATION TIME EMS equals 8888,	ARRIVAL TIME EMS and EMS TIME AT HOSPITAL must equal 8888.
(E05P)	EMS TIME AT HOSPITAL equals 9997,	ARRIVAL TIME EMS must equal 9997.
(E06P)	ARRIVAL TIME EMS equals 9997,	EMS TIME AT HOSPITAL must equal 9997.
(E08P)	NOTIFICATION TIME EMS is not 8888, 9998, and EMS TIME AT HOSPITAL is not 8888, 9996, 9997, 9998,	ARRIVAL TIME EMS must not equal 9997 or 9998.
(P091)	TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 1, 3, 5,	EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.
(P093)	all persons TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 2, 4,	NOTIFICATION TIME EMS, ARRIVAL TIME EMS, EMS TIME AT HOSPITAL must equal 8888.
(P510)	EMS TIME AT HOSPITAL equals 8888, 9997, 9998,	DIED AT SCENE/EN ROUTE should not equal 8 for any PERSON.
(P530)	EMS TIME AT HOSPITAL equals 9996,	DIED AT SCENE/EN ROUTE must equal 8 for at least one person.
(P54P)	DIED AT SCENE/EN ROUTE equals 8,	EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.

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## **RELATED FACTORS – CRASH LEVEL**

**FORMAT:** 2 numeric occurring 3 times

**SAS NAME:** Accident.CF1; Accident.CF2; Accident.CF3

**ELEMENT VALUES:**

- 00** None
- \***01** Inadequate Warning of Exits, Lanes Narrowing, Traffic Controls, etc.
- \***02** Shoulder Design or Condition
- 03** Other Maintenance or Construction-Created Condition
- \***04** No or Obscured Pavement Marking
- 05** Surface Under Water
- \***06** Inadequate Construction or Poor Design of Roadway, Bridge, etc.
- 07** Surface Washed Out (caved-in, road slippage)

**Special Circumstances:**

- 13** Aggressive Driving / Road Rage by Non-Contact Vehicle Driver
- 14** Motor Vehicle Struck by Falling Cargo, or Something That Came Loose From, Or Something That was Set-in-Motion by a Vehicle.
- 15** Non-Occupant Struck by Falling Cargo, or Something That Came Loose From, or Something that was Set-in-Motion by a Vehicle.
- 16** Non-Occupant Struck Vehicle
- 17** Vehicle Set-in-Motion by Non-Driver
- \***18** Date of Crash and Date of EMS Notification Were Not the Same Day
- 19** Recent Previous Crash Scene Nearby
- 20** Police Pursuit Involved
- 21** Within Designated School Zone
- \***22** Speed Limit is a Statutory Limit as Recorded or was Determined as This State's "Basic Rule"
- 23** Indication of a Stalled/Disabled Vehicle
- 24** Unstabilized Situation Began and All Harmful Events Occurred Off of the Roadway
- 25** Toll Booth / Plaza Related
- 26** Backup Due to Prior Non-Recurring Incident
- 27** Backup Due to Prior Crash
- 28** Backup Due to Regular Congestion
- 99** Unknown

**\* FARS ONLY ATTRIBUTES**

**Definition:** This element identifies factors related to the crash expressed by the investigating officer.

**Remarks:**

<b>Related Factors</b>		<b>Environmental/Roadway Conditions Noted</b>
<b>00</b>	None	
* <b>01</b>	Inadequate Warning of Exits, Lanes Narrowing, Traffic Controls, etc.	<p>Includes “inadequate warning” of any type; takes precedence over <b>06 (Inadequate Design)</b> and <b>03 (Other Maintenance or Construction-Created Condition)</b>.</p> <p>Inadequate warning due to obscured signs. Inadequate warning due to signs temporarily down, lack of necessary sign for merge, diverge. Not a construction site situation.</p>
* <b>02</b>	Shoulder Design or Condition	<p>Takes precedence over <b>06 (Inadequate Design)</b> and <b>03 (Other Maintenance or Construction-Created Condition)</b>.</p> <p>Includes only situations pertaining to actual design or condition of the shoulder. Soft shoulder or shoulder collapsing. Inadequate shoulder width. Shoulder at different level from the roadway (drop-off, lifted, not flat).</p>
<b>03</b>	Other Maintenance or Construction-Created Condition	<p>Includes “inadequate maintenance” conditions, (i.e., potholes, ruts in roadway) moving/changing signs.</p> <p>Also includes conditions cited by the officer related to construction activity such as the addition of barricades, change in traffic patterns, merging of lanes, etc.</p>
* <b>04</b>	No or Obscured Pavement Marking	<p>Takes precedence over <b>06 (Inadequate Design)</b> and <b>03 (Other Maintenance or Construction-Created Condition)</b>.</p> <p>Includes any pavement marking situations. New asphalt has covered old pavement markings. Pavement marking or surface has worn off. Ice/snow/mud obscuring pavement markings.</p> <p><b>NOTE:</b> Care should be used to distinguish from <b>01 (Inadequate Warning of Exits, Lanes Narrowing, Traffic Controls, etc.)</b></p>

<b>Related Factors</b>		<b>Environmental/Roadway Conditions Noted</b>
<b>05</b>	Surface Under Water	<p>Takes precedence over <b>06 (Inadequate Design)</b> and <b>03 (Other Maintenance or Construction-Created Condition)</b>.</p> <p>Includes surfaces under water beyond accumulation associated with Roadway Surface Condition <b>06 (Water [standing, moving])</b> (i.e., depth of water).</p> <p>Permanently under water, i.e., fords.</p> <p>Temporarily under water, i.e., flooded areas.</p>
<b>*06</b>	Inadequate Construction or Poor Design of Roadway, Bridge, etc.	<p>Pertains to original design of trafficway (i.e., roadway bridges, medians, guardrails, traffic barriers).</p> <p>Blind intersections due to highway design, not due to visual obstructions (i.e., shrubbery) etc.</p> <p>Improper banking, lack of a lane for merging.</p> <p>Inadequate road surface (dirt, gravel surfaces, etc.); however, this must not be inferred; must be explicitly stated in police report as a "factor."</p> <p>Excludes shoulder-related situations, pavement marking situations, situations with inadequate warnings, and surfaces under water.</p>
<b>07</b>	Surface Washed Out (caved-in, road slippage)	<p>Only environmentally caused situations.</p> <p>Destruction of a section of roadway by water (flooding, heavy rains) or other cataclysms (earthquakes, etc.).</p>
<b>13</b>	<b><u>SPECIAL CIRCUMSTANCES</u></b>  Aggressive Driving / Road Rage by Non-Contact Vehicle Driver	<p>This factor is only used for situations where the investigating officer indicates that a non-contact vehicle ("phantom vehicle") was being operated aggressively. Officer must use the term "Aggressive" in describing a driver's behavior.</p> <p>This can be indicated in the report under related/contributing factors or in the narrative. You may encounter the term "Road Rage" used to describe aggressive driving behavior. Be cautious with this term as the two terms are not technically interchangeable. For contact vehicles, see Driver Level-Related Factor <b>08 (Aggressive Driving/Road Rage)</b>.</p>

Related Factors	Environmental/Roadway Conditions Noted
14 Motor Vehicle Struck by Falling Cargo, or Something That Came Loose From, Or Something That was Set-in-Motion by a Vehicle.	<p>“Something set-in-motion” includes persons and vehicles in-transport, parked/stopped off roadway and working motor vehicles, as well as motor vehicles in motion outside the trafficway.</p> <p>“Something set in-motion” denotes that a vehicle “has control of” or “is attached/connected” to the object. An example of “control of” is a vehicle determining the direction of a driverless vehicle. An example of “attached to” is a vehicle overriding another vehicle.</p> <p>“Set-in-Motion” generally applies to non-fixed objects (including pedestrians set-in-motion), and extends to vehicles parked and “in-transport.”</p> <p><b><i>This includes Parked Motor Vehicle, Working Motor Vehicle or Motor Vehicle parked outside the trafficway struck by something that was set-in-motion by a motor vehicle in-transport.</i></b></p>
15 Non-Occupant Struck by Falling Cargo, or Something That Came Loose From, or Something that was Set-in-Motion by a Vehicle.	Non-occupant denotes pedestrians, pedal cyclists, and persons on personal conveyances (skateboard riders, roller skaters, non-motorized wheelchairs, baby carriages, scooters).
16 Non-Occupant Struck Vehicle	Pedestrian or bicycle rider entering roadway runs into vehicle, usually the side or back of the vehicle, not in the vehicle’s path.
17 Vehicle Set-in-Motion by Non-Driver	<p>Passenger shifting gears on vehicle.      Passenger hitting accelerator.      Passenger turning ignition key.</p> <p><b>NOTE:</b> Different from Related Factors-Person Level 05 (<b>Interfering With the Driver</b>).</p>
*18 Date of Crash and Date of EMS Notification Were Not the Same Day	Crash victims not discovered immediately. Effects of crash not immediately known.
19 Recent Previous Crash Scene Nearby	Previous crash causes a change in traffic patterns causes obstruction on roadway, requires reduction in traffic speed, leaves occupants and vehicles on roadway.

Related Factors	Environmental/Roadway Conditions Noted
<b>20</b> Police Pursuit Involved	<p>When pursuit has been initiated by the police and is active at the time of the crash. This applies for air or ground pursuing vehicles.</p> <p>When pursuit has been initiated and terminated, but related to the crash. This applies for air or ground pursuing vehicles.</p> <p>(See Related Factors-Driver Level for <b>37 (Police Pursuing this Driver or Police Officer in Pursuit)</b>.)</p>
<b>21</b> Within Designated School Zone	<p>Areas signed or marked as "School Zone." This may or may not be school-bus-related.</p> <p>"School Zones" are zones near or at a school, which exist during months and hours when zone signing is in effect.</p>
<b>*22</b> Speed Limit is a Statutory Limit as Recorded or was Determined as This State's "Basic Rule"	<p>No posted speed limit, but state law sets maximum speed limit on a local road or street.</p>
<b>23</b> Indication of a Stalled/Disabled Vehicle	<p>Includes contact and non-contact vehicles that are stalled/disabled for mechanical reasons not due to crash-related damage.</p> <p><u>Examples:</u></p> <ol style="list-style-type: none"> <li>1. A pedestrian is struck when walking from their stalled vehicle.</li> <li>2. A vehicle is stalled in the travel lanes causing another vehicle to lose control and crash.</li> </ol>
<b>24</b> Unstabilized Situation Began And All Harmful Events Occurred Off of the Roadway	<p><u>Examples:</u></p> <ol style="list-style-type: none"> <li>1. A vehicle stopped on the roadside begins to accelerate to re-enter the roadway and runs into a ditch and overturns.</li> <li>2. An ATV driving along the roadside and strikes a tree stump.</li> <li>3. A vehicle strikes a pedestrian while driving down the road shoulder.</li> </ol>

<b>Related Factors</b>		<b>Environmental/Roadway Conditions Noted</b>
<b>25</b>	Toll Booth/Plaza Related	Indication in the case materials that the crash occurred at or in the vicinity of a toll booth (manned or unmanned) or a toll plaza. These are crashes that occur in the upstream approach to the toll booth/plaza area and continues as the approach area (where the toll road begins to widen) leading up to the toll booths and in the departure area where the road begins to narrow leading back to the normal number of lanes comprising the toll road downstream departure area.
<b>26</b>	Backup Due to Prior Non-Recurring Incident	Indication in the crash report that the crash occurred in or related to an area of the trafficway where there was congestion on the roadway caused by an unusual or unplanned event. Examples: <ul style="list-style-type: none"> <li>• A tractor trailer transporting a trailer designated as a Wide Load</li> <li>• Debris in the roadway causing a backup.</li> <li>• Backup due to traffic going to or coming from a funeral procession, sporting event, parade or traffic signal outage.</li> </ul>
<b>27</b>	Backup Due to Prior Crash	An accumulation of traffic caused by vehicles slowing or stopping due to traffic flow. The distance from the prior crash does not matter just its relevance to this crash.
<b>28</b>	Backup Due to Regular Congestion	Indication in the crash report that the crash occurred in or related to an area of the trafficway where there was congestion due to heavy traffic during rush hour.
<b>99</b>	Unknown	

**\* FARS ONLY ATTRIBUTES**

Code information provided in the narrative by the investigating officer. Boxes the officer checks on the PAR should be coded where appropriate. If the investigating officer states any related factors, they should be coded.

If the officer states ‘the witness said,’ these should not be coded.

Care must be used in coding this element. The Police Accident Report (PAR) should state that the environmental condition was a factor or existed at this location; cannot be inferred. Can be coded in conjunction with other elements; for example, if a traffic control is temporarily down, it can be coded under both “Traffic Control Device Functioning” and Related Factors-Crash Level **01 (Inadequate Warning of Exits, Lanes Narrowing, Traffic Controls, etc.)**. The rule is that “specific” takes precedence over “general” factors.

### **Use of 00 (None)**

Use when no factors are noted; zero-fill all fields. **00 (None)** implies that the investigating officer indicated “no factors.” Also use **00 (None)** to complete remaining fields when you will be recording less than three related factors.

DO NOT leave any remaining fields blank.

### **Use of 99 (Unknown)**

Use when the circumstances surrounding the crash are unknown and reported as **Unknown** by the investigating officer. In these circumstances, nine-fill all fields. If **99 (Unknown)** is used for any field, ALL fields must be **Unknown**. DO NOT leave any remaining fields blank.

**Attributes 13-28 - SPECIAL CIRCUMSTANCES**, are exceptions to the above remarks. These are codes for unusual factors that occurred during the crash. If you can determine that any of these factors did happen, then these codes should be used.

**Definition of Police Pursuit:** A pursuit is an event that is initiated when a law enforcement officer, operating an authorized emergency vehicle, gives notice to stop (either through the use of visual or audible emergency signals or a combination of emergency devices) to a motorist who the officer is attempting to apprehend, and that motorist fails to comply with the signal by either maintaining his/her speed, increasing speed, or taking other evasive action to elude the officer's continued attempts to stop the motorist. A pursuit is terminated when the motorist stops, or when the attempt to apprehend is discontinued by the officer or at the direction of a competent authority.

### **Consistency Checks:**

IF	THEN
(1A0P) RELATED FACTORS-CRASH LEVEL equals 14,	NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.
(1A1P) RELATED FACTORS-CRASH LEVEL equals 05,	ROADWAY SURFACE CONDITIONS must equal 06 for at least one vehicle.
(640F) TRAFFIC CONTROL DEVICE equals 23 for any vehicle,	RELATED FACTORS-CRASH LEVEL should equal 21.

	IF	THEN
(641F)	RELATED FACTORS-CRASH LEVEL equals 21,	TRAFFIC CONTROL DEVICE should not equal 00 for every vehicle.
(642F)	TRAFFIC CONTROL DEVICE equals 00 for any vehicle,	RELATED FACTORS-CRASH LEVEL should not equal 21.
(840P)	any RELATED FACTORS-CRASH LEVEL equals 99,	all RELATED FACTORS-CRASH LEVEL must equal 99.
(850P)	the first RELATED FACTORS-CRASH LEVEL equals 00,	all RELATED FACTORS-CRASH LEVEL must be 00. If the second equals 00, then the third must also.
(860P)	any RELATED FACTORS-CRASH LEVEL is blank,	all RELATED FACTORS-CRASH LEVEL must be blanks.
(870P)	A RELATED FACTORS-CRASH LEVEL crash.	01-07, 13-28 can be used only once per
(880F)	RELATED FACTORS-CRASH LEVEL equals 16,	there must be a Person Level (Not a MV Occupant) form with PERSON TYPE equal to 04-08, 19.
(890F)	RELATED FACTORS-CRASH LEVEL equals 15,	there must be a Person Level (Not a MV Occupant) form with PERSON TYPE equal to 04-08, 10, 19.
(8L8S)	AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19 in the CRASH EVENTS and the corresponding event in that row equals 14, 45 or 54,	RELATED FACTORS-CRASH LEVEL must equal 14.
(8L8T)	RELATED FACTORS-CRASH LEVEL equals 14,	there must exist at least one event in the CRASH EVENTS where AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19 and the corresponding event in that row equals 14, 45 or 54.
(8L8U)	AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19 in the CRASH EVENTS and the corresponding event in that row equals 08, 09, 15, 49,	RELATED FACTORS-CRASH LEVEL must equal 15.
(8L8V)	RELATED FACTORS-CRASH LEVEL equals 15,	there must exist at least one event in the CRASH EVENTS where AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19, and the corresponding event in that row equals 08-10, 15, 18 or 49.
(AM1P)	FIRST HARMFUL EVENT equals 54 <b>or 73</b> , or SEQUENCE OF EVENTS equals 54, <b>73</b> for any vehicle,	one RELATED FACTORS-CRASH LEVEL must equal 14.
(D470)	any RELATED FACTORS-DRIVER LEVEL equals 37,	at least one RELATED FACTORS-CRASH LEVEL should equal 20.
(D500)	VIOLATIONS CHARGED equals 05,	at least one RELATED FACTORS-CRASH LEVEL should equal 20.

	<b>IF</b>	<b>THEN</b>
(PB63)	PEDESTRIAN/BIKE TYPING - <b><i>CRASH TYPE - PEDESTRIAN</i></b> equals 230,	at least one RELATED FACTORS - CRASH LEVEL should equal 19 or 23.

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## **INTERSTATE HIGHWAY**

### **(GES Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Accident.Int\_Hwy

**ELEMENT VALUES:**

- |   |         |
|---|---------|
| 0 | No      |
| 1 | Yes     |
| 9 | Unknown |

**Definition:** This element identifies whether or not the crash occurred on an interstate highway. Interstate highway is a Federal Highway Administration classification.

**Remarks:**

The Interstate Highway System includes those trafficways that are within the national system for interstate transport and defense purposes. Interstates typically have limited access and multiple lanes of travel.

Crashes which occur on ramps leading to or away from an Interstate should be coded **1 (Yes)**.

Enter **0 (No)** when the PAR indicates that the crash occurred on any of the following: US Highway, State Highway, County Road, Township Road or Municipal Road.

Enter **1 (Yes)** when the PAR indicates the crash occurred on an interstate highway. Some PARs use a specific block to indicate interstate. Interstate can also be identified by the prefix "I" used in the roadway name.

**Consistency Checks (GES Only):**

	<b>IF</b>	<b>THEN</b>
(A3G0)	INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20,	TOTAL LANES IN ROADWAY should not equal 1 for at least one vehicle involved in the first harmful event.
(A3H0)	INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20,	TRAFFICWAY DESCRIPTION should not equal 4 for at least one vehicle involved in the first harmful event.

	<b>IF</b>	<b>THEN</b>
(A3I0)	INTERSTATE HIGHWAY equals 1	RELATION TO JUNCTION (b) should not equal 02, 04, 06, 08 or 16.
(A3J0)	INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20,	SPEED LIMIT should not equal 01-40 for at least one vehicle involved in the first harmful event.
(A3K0)	FIRST HARMFUL EVENT equals 10,	INTERSTATE HIGHWAY should not equal 1.
(A930)	INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20,	TRAFFIC CONTROL DEVICE should not equal 01-03, 20, 23 or 65 for at least one vehicle involved in the first harmful event.

## **STRATUM** **(GES Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Accident.Stratum

**ELEMENT VALUES:**

- 1 Category 1-Stratum L
- 2 Category 2
- 3 Category 3
- 4 Category 4
- 5 Category 1-Stratum M
- 6 Category 1-Stratum N

**Definition:** The number of the category in which the PAR was originally listed in GES PAR Program or Stratification Record.

**Remarks:**

Only NASS crashes are included in the GES. See the current NASS GES Researcher's Manual, for the definition of a NASS crash.

**Categories 1-Stratum L, M and N** apply if the NASS crash involves at least one "passenger vehicle" (i.e., a passenger car, sport utility vehicle, van, or pickup truck) which is "towed" (i.e., towed from the crash scene due to damage). Crashes involving medium or heavy trucks are excluded from these categories.

**Category 1-Stratum L** is used if an occupant of a towed, passenger vehicle is killed. Stratum L also applies when the crash involves one passenger vehicle, the passenger vehicle is towed and one of the occupants receives an A injury and is transported to a medical facility for treatment or the crash involves two or more passenger vehicles, at least two passenger vehicles are towed and one of the occupants of the towed passenger vehicles receives an A injury and is transported to a medical facility for treatment.

**Category 1-Stratum M** is used if the NASS crash does not qualify for **Category 1-Stratum L**, but at least one occupant of a towed passenger vehicle is injured and transported to a medical facility for treatment.

**Category 1-Stratum N** is used if the NASS crash does not qualify for **Category 1-Stratum L** or **Category 1-Stratum M**, but a passenger vehicle is towed and no medium or heavy trucks are involved.

**Category 2** applies if the NASS crash does not qualify for **Category 1-Stratum L, M or N**; but involves at least one medium or heavy truck and either a vehicle which is towed due to damage or at least one involved person which has a police reported injury of "K", "A", "B", or "C."

**Category 3** applies if the NASS crash does not qualify for **Category 1-Stratum L, M or N** or **Category 2**; none of the vehicles involved in the crash are medium or heavy trucks and at least one person involved in the crash has a police reported injury of "K", "A", or "B."

**Category 4** applies if the crash does not qualify for **Category 1-Stratum L, M or N**; **Category 2** or **Category 3**. Further clarification: No one in the crash can receive a "K", "A" or "B" injury. A person can receive a C injury only if there are no medium/heavy trucks involved in the crash.

#### Stabilization:

At times, one police report will contain more than one crash. This will happen when events constituting a crash have stabilized (ANSI D16.1 1996, Section 2.4.4) and units involved in the first sequence are subsequently involved in another crash sequence which is recorded on the same police report. If more than one crash is recorded on a police report, based on the ANSI definition of stabilized, then use the following protocol to determine which of the crashes to code.

First, identify all NASS crashes. Exclude from consideration those which are not NASS crashes.

Second, select the situation (A, B, or C below) which is applicable to the PAR under consideration and follow the protocol provided.

#### Situation A

If exactly one crash qualifies for **Category 1-Stratum L, M or N**; choose this crash to code.

#### Situation B

If more than one crash qualifies for **Categories 1-Stratum L, M and N**; follow the 2 steps below to select the crash to code. Ignore all crashes not applicable to **Categories 1-Stratum L, M and N**.

(1) If more than one crash is classified as L, M or N; choose L over M, M over N.

(2) If there are two or more crashes of the same classification (e.g., two crashes are classified in **Category 1-Stratum N**), then the criteria below apply:

(a) If injury is involved and the relative degree of injury between crashes can be determined, the crash with the highest injury severity is chosen.

- (b) If injury is involved and the relative degree of injury between crashes is approximately equal, the first of the highest equal injury crashes is chosen.
- (c) If injury is involved and the relative degree of injury between crashes cannot be determined, the first crash is chosen.
- (d) If there are no injuries, then the first crash is chosen.

Situation C

If no crash qualifies for **Category 1-Stratum L, M or N** and there is more than one crash applicable to **Categories 2, 3 or 4**; follow the criteria in Situation B, step 2 above to select the crash to code.

Consistency Check (GES Only):

	IF	THEN
(VH88)	<i>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49 or 60-79,</i>	<i>STRATUM should not equal 4.</i>
(VH89)	<i>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49,</i>	<i>STRATUM should not equal 3.</i>
(VH90)	<i>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49 or 60-79,</i>	<i>FINAL STRATUM must not equal 4.</i>
(VH91)	<i>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49,</i>	<i>FINAL STRATUM must not equal 3.</i>
(5A1P)	BODY TYPE equals 60-79, and UNIT TYPE equals 1,	FINAL STRATUM should not equal 1, 3, 5 or 6.
(5A2P)	FINAL STRATUM equals 2,	there must exist at least one vehicle where BODY TYPE equals 60-79, and UNIT TYPE equals 1.
(5A3P)	FINAL STRATUM equals 1, 5 or 6,	there should exist at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2.

IF	THEN
(5A4P) FINAL STRATUM equals 1,	<p>there should exist:</p> <ul style="list-style-type: none"> <li>1) at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 4 for at least one occupant of that vehicle; or</li> <li>2) one and only one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 3 for at least one occupant of that vehicle; or</li> <li>3) 2 or more vehicles where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and at least 2 vehicles where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 3 for at least one occupant of a vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2.</li> </ul>
(5A5P) FINAL STRATUM equals 5,	there should exist at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 1, 2, 3 or 5 for at least one occupant of that vehicle.
(5A6P) FINAL STRATUM equals 2,	there 1) should exist at least one vehicle where UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2; or 2) INJURY SEVERITY should equal 1-5 for at least one person in the crash. INJURY SEVERITY must equal 2-4 for at least one person in the crash.
(5A7P) FINAL STRATUM equals 3,	INJURY SEVERITY must not equal 2-4 for any person in the crash.
(5A8P) FINAL STRATUM equals 4,	
(5A9P) FINAL STRATUM equals 4, and INJURY SEVERITY equals 1,	there should exist no vehicles where BODY TYPE equals 60-79, and UNIT TYPE equals 1.

## **POLICE JURISDICTION** **(GES Only)**

**FORMAT:** 3 numeric

**SAS NAME:** Accident.PJ

**ELEMENT VALUES:**

1-128      Range

**Definition:** The number (range 1 through 120) of the police jurisdiction from which the PAR was originally sampled.

**Remarks:**

This is the police jurisdiction from which the PAR is selected; it is written at the top of the PAR and is prefaced by the character "PJ". The police jurisdiction may also be shown as the second of three numbers separated by '-'s. The first number in the set of three is the primary sampling unit; the second is the police jurisdiction; and the third is the PAR number. The jurisdiction number written on the PAR must match the number shown in the "GES Input Form" PAR/Jurisdiction field.

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## **ADDITIONAL STATE INFORMATION**

**FORMAT:** Alphanumeric

**SAS NAME:** None

**ELEMENT VALUES:**

Blanks

Any Alphanumeric Characters

**Remarks:**

This space is reserved for each individual state's use.

Suggested uses depend on potential needs of the state.

This space may contain:

1. Police Accident Report number.
2. Additional crash location information.

If HPMS number is available, it may be inserted here.

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## **VEHICLE NUMBER – VEHICLE LEVEL**

**FORMAT:** 3 numeric

**SAS NAME:** Vehicle.Veh\_No; Parkwork.VEH\_NO

**ELEMENT VALUES:**

001-999

**Definition:** This element identifies the number assigned to this vehicle in the crash.

**Remarks:**

Each motor vehicle in a crash must be assigned a unique number. The numbers assigned to vehicles must be consecutive, starting with '001' with no missing numbers.

Motor vehicles are assigned the PAR's vehicle number unless a number is skipped because of a non-contact vehicle included on the PAR with a vehicle number or a non-motorist included with a unit number.

**Consistency Checks:**

	IF	THEN
(060P)	NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is not equal to 000, 999,	the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal some VEHICLE NUMBER in the case, <b><i>and the UNIT TYPE must equal 1.</i></b>
(CSI5)	VEHICLE NUMBER at the Person Level is greater than 000,	VEHICLE NUMBER at the Person Level must equal a VEHICLE NUMBER at the Vehicle Level.
(CSI6)	For each VEHICLE NUMBER, PERSON NUMBERS must be consecutive, beginning with 001 and with no gaps.	
(PBA0)	<b><i>PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 111, 211, 212, and VEHICLE NUMBER - VEHICLE LEVEL equals NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,</i></b>	<b><i>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11.</i></b>

IF	THEN
<p><b>(PBA1) PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 112, 151, 213, 214, 217 or 218, and VEHICLE NUMBER - VEHICLE LEVEL equals NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,</b></p>	<p><b>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10.</b></p>

## **NUMBER OF OCCUPANTS**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.Numoccs; Parkwork.PNUMOCCS

**ELEMENT VALUES:**

00	None
01-95	Actual Value* if Total Known except:
96	Ninety-Six or more
99	Unknown

**Definition:** This element identifies the number of occupants in each vehicle.

**Remarks:**

This data element must be coded for each motor vehicle involved in the crash. Code the total number of occupants (**injured and uninjured**) in this motor vehicle.

In bus crashes, the total number of occupants, including the driver, must be entered.

**00 (None)** is used when this motor vehicle is unoccupied.

**99 (Unknown)** is used when the number of occupants for the motor vehicle is unknown. This code may also be used when this motor vehicle is a “hit-and-run” vehicle, unless evidence clearly establishes the number of occupants present.

Also use **99 (Unknown)** when the State reports information only on drivers and INJURED passengers and the total number of occupants is unknown.

In those states where data are collected ONLY on INJURED persons and drivers, BUT the actual number of motor vehicle occupants is known, code this element with the number of motor vehicle occupants and complete Person Level forms for ALL INVOLVED individuals. Bus and railroad crashes are an exception. For bus crashes (Body Types 50-59), the total number of occupants, including the driver, should be recorded, but Person Level (MV Occupant) forms should only be submitted for injured occupants and for the driver, whether the driver is injured or not.

**NOTE:** This does NOT apply to small van-based buses (Body Type 21). Always submit a person level form for all occupants of van-based vehicles, including small van-based buses.

\* Values greater than 30 are unlikely and will raise a “U” flag.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(2F0F)	NUMBER OF OCCUPANTS equals 00,	DRIVER PRESENCE must equal 0.
(4C1P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 01-05, 07-09, 14, 15, 17, 19, 94, 95, 97, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 20.
(4C2P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 06, 11, 16, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 22.
(4C3P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 12, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 25.
(4C4P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 80-83, 88, 89, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 5.
(4C5P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 42, 73, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 30.
(4C6P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 60-65, 71, 72, 79, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 55.
(4C7P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 66, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 77.
(4C8P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 91, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 10.
(4C9P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 90, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 20.
(4C0P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 99, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 10.

	IF	THEN
(4F1P)	NUMBER OF OCCUPANTS is less than 97, and BODY TYPE equals 01-05, 07-10, 13, 17, <b>80-83, 88-90, 91-95</b> , 97, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS <b>must not</b> be greater than 15.
(4F2P)	NUMBER OF OCCUPANTS is less than 97, and BODY TYPE equals 06, 11, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 22.
(4F3P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 12, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 25.
(4F4P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 80-83, 88, 89, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 5.
(4F5P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 15, 16, 42, 73, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 30.
(4F6P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 60-65, 71, 72, 79, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 55.
(4F7P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 66, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 50.
(4F8P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 91, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 10.
(4F9P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 90, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 20.
(4F9Q)	<b>NUMBER OF OCCUPANTS is less than 97, and BODY TYPE equals 06, 11, 12, 14-16, 19, and VEHICLE TRAILING equals 0,</b>	<b>NUMBER OF OCCUPANTS should not be greater than 15.</b>
(4F0P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 99, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 10.
(5F0F)	NUMBER OF OCCUPANTS equals 00-95, and BODY TYPE does not equal 50-52, 55, 58, 59,	the number of Person Level forms for that vehicle must be less than or equal to the NUMBER OF OCCUPANTS.
(BJ4P)	any DRIVER DISTRACTED BY equals 03,	NUMBER OF OCCUPANTS must be greater than 01.

	<b>IF</b>	<b>THEN</b>
(V170)	NUMBER OF OCCUPANTS is less than 97, and VEHICLE TRAILING equals 0, and BODY TYPE equals 01-05, 07-09, 14, 15, 17, 19, 94, 95, 97,	NUMBER OF OCCUPANTS should not be greater than 8.
(V180)	NUMBER OF OCCUPANTS is less than 97, and VEHICLE TRAILING equals 0, and BODY TYPE equals 06, 11,	NUMBER OF OCCUPANTS should not be greater than 12.
(V190)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 12,	NUMBER OF OCCUPANTS should not be greater than 15.
(V200)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 80-83, 88, 89,	NUMBER OF OCCUPANTS should not be greater than 2.
(V210)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 15, 16, 42, 73,	NUMBER OF OCCUPANTS should not be greater than 12.
(V220)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 60-65, 71, 72, 79,	NUMBER OF OCCUPANTS should not be greater than 12.
(V230)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 66,	NUMBER OF OCCUPANTS should not be greater than 5.
(V240)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 91,	NUMBER OF OCCUPANTS should not be greater than 2.
(V250)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 90,	NUMBER OF OCCUPANTS should not be greater than 8.
(V260)	NUMBER OF OCCUPANTS is, 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 99,	NUMBER OF OCCUPANTS should not be greater than 5.
(V290)	BODY TYPE equals 90,	NUMBER OF OCCUPANTS should equal 01.
(V340)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 01-05, 07-09, 14, 15, 17, 19, 97, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 8.

	<b>IF</b>	<b>THEN</b>
(V350)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 06, 11, 16, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 12.
(V360)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 12, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 15.
(V370)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 80-83, 88, 89, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 2.
(V380)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 42, 73, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 12.
(V390)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 60-65, 71, 72, 79, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 12.
(V400)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 66, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 5.
(V410)	NUMBER OF OCCUPANTS is less than 01-96, and BODY TYPE equals 91, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 2.
(V420)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 90, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 8.
(V430)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 98, 99, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 5.

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## UNIT TYPE

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.UNITTYPE; Parkwork.PTYPE

**ELEMENT VALUES:**

- 1 Motor Vehicle In-Transport (Inside or Outside the Trafficway)
- 2 Motor Vehicle Not In-Transport Within the Trafficway
- 3 Motor Vehicle Not In-Transport Outside the Trafficway
- 4 Working Motor Vehicle (Highway Construction, Maintenance, Utility only)

**Definition:** This element identifies the type of unit that applies to this motor vehicle at the time it became an involved vehicle in the crash and was reported as a unit on the Police Accident Report (PAR).

**Remarks:**

**IMPORTANT:**

Remember, you must have at least one motor vehicle “In-Transport” involved in the crash for this to be a reportable case.

**NOTE:** For Unit Type attributes “2-4,” you must only submit selected elements on the Vehicle Level. V15, V24, and V31 are not coded. Also, all elements on the Driver level must be left blank, except **D4 (DRIVER PRESENCE)** and **D24 (RELATED FACTORS-DRIVER LEVEL)**. Related Factors-Driver Level must be coded all “00.”

**1 (Motor Vehicle In-Transport [Inside or Outside the Trafficway])** is used to indicate that this is a motor vehicle in-transport. “In-Transport” means any part of the vehicle’s primary outline as defined by the four sides of the vehicle (excluding open doors or mirrors) or load, if any, is within the roadway (travel lanes) or the vehicle is in motion anywhere within or outside the trafficway boundaries. ***If it can't be determined if a not in-transport, non-working motor vehicle is within or outside the trafficway, default to 3 (Motor Vehicle Not In-Transport Outside the Trafficway).***

**Examples:**

1. Motor vehicle in traffic on the highway.
2. Motionless motor vehicle abandoned on the roadway travel lanes.
3. Motor vehicle on roadway stopped at traffic signal.
4. Motor vehicle driving or in motion on the shoulder, median or roadside.
5. Motor vehicle driving down a private driveway.

6. Motor vehicle in motion, outside the trafficway boundaries (e.g., vehicle pulling up to a pump in a gas station; not within trafficway; vehicle in motion in a parking lot aisle; lawn tractor driving in a field adjacent to the trafficway; ATV driving on a dirt track next to trafficway; etc.).
7. A tractor trailer with its load hanging over the roadway edge line.
8. A pickup truck on the shoulder with lumber extending into the travel lanes.

**2 (Motor Vehicle Not In-Transport Within the Trafficway)** is used to indicate that this is a motor vehicle not in-transport located within the trafficway boundaries when it became an involved unit. The trafficway boundaries are from property line to property line.

Examples:

1. Motor vehicle parked in designated curbside parking lane.
2. Motor vehicle parked in designated curbside parking lane with an open door crossing into the travel lane.
3. Motor vehicle stopped completely on the shoulder, median or roadside.

**3 (Motor Vehicle Not In-Transport Outside the Trafficway)** is used to indicate that this is a motor vehicle not in-transport located outside the trafficway boundaries when it became an involved unit by being struck by a motor vehicle in-transport. *If it can't be determined if a not in-transport, non-working motor vehicle is within or outside the trafficway, default to 3 (Motor Vehicle Not In-Transport Outside the Trafficway).*

Examples:

1. Motor vehicle parked in a private driveway, parking lot space, or other private property (outside the trafficway boundaries).
2. Any vehicle (**not in motion**) used for private construction occurring outside the trafficway boundaries.

**4 (Working Motor Vehicle [Highway Construction, Maintenance, Utility only])** is used to indicate that this is a motor vehicle that was in the act of performing highway construction, maintenance or utility work related to the trafficway when it became an involved unit. This "work" may be located within open or closed portions of the trafficway and motor vehicles performing these activities can be within or outside the trafficway boundaries. This code does not include private construction/maintenance vehicles, or vehicles such as garbage trucks, delivery trucks, taxis, emergency vehicles (except example #8 below), tow trucks, etc.

Examples:

1. Asphalt/steam roller working in a highway construction zone paving the roadway or flattening dirt.
2. State highway maintenance crew painting lane lines on the road, mowing grass on the roadside or median, repairing potholes, removing debris from the roadway, etc.

3. Utility truck or a “cherry picker”, performing maintenance on power lines along the roadway or maintaining a traffic signal.
4. A private excavating company contracted by the State digging the foundation for a new overpass.
5. A state, county, or privately owned snow plow, plowing ice/snow as part of a highway maintenance activity.
6. Street sweeper sweeping the street.
7. A vehicle in a mobile work convoy displaying arrow boards or other signaling devices warning motorists of the work activity.
8. A law enforcement vehicle which is participating strictly in a stationary construction or mobile maintenance activity as a traffic slowing, control, signaling or calming influence.

When not in the act of performing “work” and involved in the crash, these highway construction, maintenance or utility vehicles can be:

- 1) In-Transport when traveling from one construction site to the next (Unit Type **1 (Motor Vehicle In-Transport [Inside or Outside the Trafficway])**)
- 2) Not In-Transport Within the Trafficway when stopped on the shoulder or within a highway work zone (Unit Type **2 (Motor Vehicle Not In-Transport Within the Trafficway)**).
- 3) Not In-Transport Outside the Trafficway when parked and refueling at a depot (Unit Type **3 (Motor Vehicle Not In-Transport Outside the Trafficway)**).
- 4) In-Transport Outside the Trafficway when relocating off the trafficway from a work activity area to another off-trafficway parking location.

#### **Consistency Checks:**

	IF	THEN
(060P)	<b>NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST</b> is not equal to 000, 999,	<b>the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal some VEHICLE NUMBER in the case, and the UNIT TYPE must equal 1.</b>
(252P)	<b>RELATION TO TRAFFICWAY</b> equals 01, 02, 03, 04, 07, 08, 10, 11, 98 or 99,	<b>UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the first harmful event must not equal 3.</b>
(255P)	<b>RELATION TO TRAFFICWAY</b> equals 01 or 11,	<b>UNIT TYPE for VEHICLE NUMBER (THIS VEHICLE) involved in the first harmful event must equal 1.</b>
(256P)	<b>RELATION TO TRAFFICWAY</b> equals 01 or 11,	<b>UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the first harmful event should equal 1 or 4.</b>

	IF	THEN
(257P)	<b>RELATION TO TRAFFICWAY equals 05,</b>	<b>UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the first harmful event must equal 1, 3 or 4.</b>
(2H1F)	UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,	DRIVER'S VISION OBSCURED BY must equal 95.
(3BAP)	UNIT TYPE equals 1, and DRIVER PRESENCE equals 0,	CRASH TYPE must equal 00, 04, 09, 15, 32, 42, 48, 52, 62, 66, 74, 84, 90, 93 or 98.
(3C0P)	UNIT TYPE equals 1, and EXTENT OF DAMAGE equals 6,	VEHICLE REMOVAL should equal 2, 8, 9.
(42BP)	<b>there is only one vehicle involved in the First Harmful Event where UNIT TYPE equals 1,</b>	<b>the number of vehicles where CRASH TYPE is coded 00, 1-16, 92, 93 or 99 (excluding from the vehicles being counted, those where CRASH TYPE equals 98) must not equal 0 or be greater than 1.</b>
(4Z1P)	UNIT TYPE equals 1, and FIRE OCCURRENCE equals 1,	at least one SEQUENCE OF EVENTS must equal 02.
(5A0P)	UNIT TYPE equals 1, and BODY TYPE equals 80, 81, 83, 88, 89, and any RELATED FACTORS - VEHICLE LEVEL does not equal 30,	ROLLOVER and LOCATION OF ROLLOVER must equal 0.
(9A2P)	UNIT TYPE equals 2, 3,	REGISTERED VEHICLE OWNER must equal 6.
(9A3P)	UNIT TYPE equals 2-4,	DRIVER PRESENCE must equal 0.
(9A5P)	PERSON TYPE equals 03,	UNIT TYPE must equal 2-4.
(9B3P)	UNDERRIDE/OVERRIDE equals 7,	there must be at least one vehicle with UNIT TYPE equal to 1.
(9B4P)	UNDERRIDE/OVERRIDE equals 8,	there must at least one vehicle with UNIT TYPE equal 2-4.
(9B5P)	UNIT TYPE equals 2, 3,	UNDERRIDE/OVERRIDE must equal 0.
(9B7P)	UNIT TYPE equals 2-4,	PERSON TYPE of all occupants of this vehicle must equal 03.
(9B9P)	any SEQUENCE OF EVENTS equals 55,	there must be at least one other vehicle with UNIT TYPE equal to 1.
(9C4P)	UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,	DRIVER MANEUVERED TO AVOID must only equal 95.
(9C0P)	FIRST HARMFUL EVENT equals 55,	there must be at least one vehicle with UNIT TYPE equal to 1.
(9C1P)	UNIT TYPE equals 4,	RELATED FACTORS-VEHICLE LEVEL must not equal 39.
(AL3P)	<b>UNIT TYPE equals 2-4,</b>	<b>MOST HARMFUL EVENT must not equal 54 for this vehicle.</b>

	IF	THEN
(AL4P)	<b><i>there is one and only one parked vehicle (UNIT TYPE equals 2 or 3) in the crash,</i></b>	<b><i>MOST HARMFUL EVENT for the parked vehicle must not equal 14.</i></b>
(AL5P)	UNIT TYPE equals 1,	at least one event in the SEQUENCE OF EVENTS must equal the MOST HARMFUL EVENT.
(AL6P)	MOST HARMFUL EVENT equals , and UNIT TYPE equals 1,	at least one event in the SEQUENCE OF EVENTS must equal ____.
(AL7P)	<b><i>UNIT TYPE equals 2-4,</i></b>	<b><i>MOST HARMFUL EVENT should not equal 04-07, 16, 51, 72.</i></b>
(AZ20)	UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.
(BJ1P)	UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,	DRIVER DISTRACTED BY must equal 16.
(BJ2P)	UNIT TYPE equals 1, and DRIVER PRESENCE equals 1,	DRIVER DISTRACTED BY must not equal 16 or blank.
(BJ3P)	UNIT TYPE equals 1, and DRIVER DISTRACTED BY equals 16,	DRIVER PRESENCE must equal 0 or 9.
(FP2F)	UNIT TYPE equals 1, and CRASH TYPE equals blank, case status is flawed.	
(FP3F)	UNIT TYPE is blank, case status is flawed.	
(FP6F)	UNIT TYPE equals 1, and CRITICAL EVENT – PRECRASH (CATEGORY) equals blank, case status is flawed.	
(FP7F)	UNIT TYPE equals 1, and CRITICAL EVENT – PRECRASH (EVENT) equals blank, case status is flawed.	
(V74P)	UNIT TYPE equals 1, and ROLLOVER equals 1, 2, 9, or LOCATION OF ROLLOVER equals 1-7, 9,	at least one SEQUENCE OF EVENTS must equal 01 for this vehicle.
(VH25)	UNIT TYPE equals 4,	REGISTERED VEHICLE OWNER should not equal 6, 9.
(VH70)	UNIT TYPE equals 2-4,	elements V15, V24, V31 must all be left blank.
(VH75)	UNIT TYPE equals 4,	VEHICLE CONFIGURATION should not equal 05, 20, 21, 10.
(VH80)	UNIT TYPE equals 4,	CARGO BODY TYPE should not equal 06, 07, 11, 12, 22.

**Consistency Checks (GES Only):**

	IF	THEN
(VH88)	<b><i>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49 or 60-79,</i></b>	<b><i>STRATUM should not equal 4.</i></b>

	IF	THEN
(VH89)	<b>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49,</b>	<b>STRATUM should not equal 3.</b>
(VH90)	<b>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49 or 60-79,</b>	<b>FINAL STRATUM must not equal 4.</b>
(VH91)	<b>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49,</b>	<b>FINAL STRATUM must not equal 3.</b>
(VH88)	<b>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49 or 60-79,</b>	<b>STRATUM should not equal 4.</b>
(5A1P)	BODY TYPE equals 60-79, and UNIT TYPE equals 1,	FINAL STRATUM should not equal 1, 3, 5 or 6.
(5A2P)	FINAL STRATUM equals 2,	there must exist at least one vehicle where BODY TYPE equals 60-79, and UNIT TYPE equals 1.
(5A3P)	FINAL STRATUM equals 1, 5 or 6,	there should exist at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2.
(5A4P)	FINAL STRATUM equals 1,	there should exist: 1) at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 4 for at least one occupant of that vehicle; or 2) one and only one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 3 for at least one occupant of that vehicle; or 3) 2 or more vehicles where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and at least 2 vehicles where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 3 for at least one occupant of a vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2.

<b>IF</b>	<b>THEN</b>
(5A5P) FINAL STRATUM equals 5,	there should exist at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 1, 2, 3 or 5 for at least one occupant of that vehicle.
(5A6P) FINAL STRATUM equals 2,	there 1) should exist at least one vehicle where UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2; or 2) INJURY SEVERITY should equal 1-5 for at least one person in the crash.
(5A9P) FINAL STRATUM equals 4, and INJURY SEVERITY equals 1,	there should exist no vehicles where BODY TYPE equals 60-79, and UNIT TYPE equals 1.

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## **HIT-AND-RUN**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.Hit\_Run, Parkwork.PHit\_Run

**ELEMENT VALUES:**

- |   |         |
|---|---------|
| 0 | No      |
| 1 | Yes     |
| 9 | Unknown |

**Definition:** This element refers to cases where a vehicle is a contact vehicle in the crash and does not stop to render aid (this can include drivers who flee the scene on foot).

**Remarks:**

In many states, the investigating officer will note this in the narrative or check the appropriate box on the PAR. In some cases, the driver can be cited for failing to render assistance. Review the case materials carefully for references to hit-and-run or failure to render aid.

It does not matter whether the hit-and-run vehicle was striking or struck. The hit-and-run vehicle(s) is (are) the one(s) that “departed prior to investigation by the police,” or that vehicle which is “abandoned” at the scene when its occupant(s) fled from the area. If the police report indicates that the vehicle was involved in a collision which was investigated, but there is no information on that vehicle or the driver/owner because of departure prior to police arrival on-scene, then hit-and-run is indicated.

**0 (No)** is used if there is no reason to believe a hit-and-run occurred involving this vehicle or its driver. Example: If a vehicle is involved in a multi-vehicle collision and one of the other contact vehicles leaves the scene.

**Examples include:**

1. if occupants of a vehicle are taken or go directly from the scene to a medical treatment facility or physician. However if doubt exists concerning the departure for treatment, assume hit-and-run.
2. a driver who leaves the scene but furnishes name, address, vehicle make, model and model year such that it is recorded in the available information and the available information does not indicate hit-and-run.
3. vehicles which set an object in motion such that (a) the object is contacted, before it stabilizes, by another in-transport motor vehicle, and (b) the vehicle which set the object in motion leaves the scene without providing the pertinent information (compare with exception two above), and (c) the available information does not indicate hit-and-run.

**1 (Yes)** is used when it has been determined that this vehicle's driver left the scene with or without their vehicle.

A hit-and-run occurred when this vehicle's driver left the scene after:

- striking a pedestrian or other type of non-motorist.
- striking a parked/stopped off roadway motor vehicle (with or without occupants).
- being struck while parked or in-transport.

If Hit-and-Run is **1 (Yes)**, Driver and Person Level (MV Occupant) forms must be submitted for the driver and occupants of this vehicle involved in the crash regardless of the fact that it was a hit-and-run.

When the presence of a hit-and-run vehicle is indicated and the available information does not provide the number of occupants, the number of occupants coded must equal 1 (the driver). In cases where the hit-and-run vehicle and its driver are not identified, code all the elements on the Vehicle, Driver and Person Level as **9 (Unknown)**. Otherwise, if some information is known about the vehicle and/or driver, code all the elements for which information exists and leave the rest as **9 (Unknown)**.

**9 (Unknown)** is used when the police indicate "Unknown."

#### Consistency Checks:

	IF	THEN
(8K0P)	VIOLATIONS CHARGED equals 07, 08,	HIT-AND-RUN must not equal 0.
(U340)	UNLIKELY: HIT-AND-RUN equals 0 or 9 and SEX equals 9.	
(U360)	UNLIKELY: HIT-AND-RUN equals 0 or 9 and AGE equals 999.	
(U070)	UNLIKELY: More than one vehicle with HIT-AND-RUN equal to 1.	
(V860)	HIT-AND-RUN equals 0, and BODY TYPE equals 61-64,	VEHICLE CONFIGURATION should equal 01, 02, 04, and CARGO BODY TYPE should equal 01-10, 12, 96-98
(V880)	HIT-AND-RUN equals 0, and BODY TYPE equals 66,	VEHICLE CONFIGURATION should equal 05-08, 19, and CARGO BODY TYPE should equal 01-04, 06-12, 96-98.
(VH87)	HIT-AND-RUN equals 0, and AREAS OF IMPACT-INITIAL CONTACT POINT equals 01-14,	the corresponding code should be included in DAMAGED AREAS or DAMAGED AREAS should equal 15.

## **REGISTRATION STATE** **(FARS Only)**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.REG\_STAT; Parkwork.PREG\_STAT

**ELEMENT VALUES:**

00	Not Applicable	35	New Mexico
01	Alabama	36	New York
02	Alaska	37	North Carolina
03	American Samoa	38	North Dakota
04	Arizona	39	Ohio
05	Arkansas	40	Oklahoma
06	California	41	Oregon
08	Colorado	42	Pennsylvania
09	Connecticut	43	Puerto Rico
10	Delaware	44	Rhode Island
11	District of Columbia	45	South Carolina
12	Florida	46	South Dakota
13	Georgia	47	Tennessee
14	Guam	48	Texas
15	Hawaii	49	Utah
16	Idaho	50	Vermont
17	Illinois	51	Virginia
18	Indiana	52	Virgin Islands
19	Iowa	53	Washington
20	Kansas	54	West Virginia
21	Kentucky	55	Wisconsin
22	Louisiana	56	Wyoming
23	Maine	91	Not Reported
24	Maryland	92	No Registration
25	Massachusetts	93	Multiple State Registration
26	Michigan	94	U.S. Government Tags (includes military)
27	Minnesota	95	Canada
28	Mississippi	96	Mexico
29	Missouri	97	Other Foreign Country*
30	Montana	98	Other Registration (includes Native American Indian Nations)
31	Nebraska	99	Unknown
32	Nevada		
33	New Hampshire		
34	New Jersey		

**Definition:** This element identifies the state in which this vehicle was registered.

**Remarks:**

For a vehicle with an expired registration code the state where the vehicle was registered at the time of expiration.

**91 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **91 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

For combination vehicles, use the registration state of the power unit only.

**00 (Not Applicable)** is used for vehicles that are exempt from registration.

Use state codes for all state registered vehicles, including state government vehicles. However, if your state does not register government-owned vehicles, use **00 (Not Applicable)**.

**92 (No Registration)** applies to vehicles that are required by state law to be registered and are NOT registered.

**93 (Multiple State Registration)** is used for commercial vehicles that are registered in more than one state under a valid reciprocal agreement (such as the International Registration Plan (IRP)).

**94 (U.S. Government)** is used to indicate the license was issued by the U.S. Government, such as military or State Department Foreign Service.

**99 (Unknown)** is used when the registration information for a vehicle cannot be identified. Example unidentified hit-and-run vehicle's registration reported as "Unknown" by police.

**Consistency Checks:**

IF	THEN
(9K0P) HM2 equals 2,	REGISTRATION STATE must not equal 00.
(AQ0P) REGISTRATION STATE equals 00, 92,	REGISTERED VEHICLE OWNER must equal 0, 5, 6.
(AV0P) REGISTERED VEHICLE OWNER equals 3, 4,	REGISTRATION STATE must not equal 99.
(D330) DRIVER PRESENCE equals 0, and REGISTRATION STATE is not equal to 00, 92, 99,	REGISTERED VEHICLE OWNER should equal 3-6.
(U040) UNLIKELY: REGISTRATION STATE equals 97.	
(V060) SPECIAL USE equals 04,	REGISTRATION STATE should equal 94.
(V070) HM1 equals 2,	REGISTRATION STATE should not equal 92.
(V550) REGISTRATION STATE equals 93, 94,	REGISTERED VEHICLE OWNER should equal 3, 4.
(V560) SPECIAL USE equals 04,	REGISTERED VEHICLE OWNER should equal 3, and REGISTRATION STATE should equal 94.
(V600) REGISTERED VEHICLE OWNER equals 9,	REGISTRATION STATE should equal 99.
(V630) REGISTRATION STATE equals 00, 92,	REGISTERED VEHICLE OWNER should NOT equal 5.
(V670) REGISTERED VEHICLE OWNER equals 1, 2,	REGISTRATION STATE should NOT equal 99.
(V960) REGISTRATION STATE equals 99,	REGISTERED VEHICLE OWNER should equal 5, 6, 9.

**Consistency Check (FARS Only):**

IF	THEN
(6G0P) RELATED FACTORS-VEHICLE LEVEL equals 32,	REGISTRATION STATE must not equal 00, 92.
(U450) UNLIKELY: REGISTRATON STATE equals 91.	
(V592) RELATED FACTORS-VEHICLE LEVEL equals 37,	REGISTRATION STATE should not equal 00, 92.

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## **REGISTERED VEHICLE OWNER** **(FARS Only)**

**FORMAT:** 1 numeric

**SAS Name:** Vehicle.OWNER, parkwork.POWNER

**ELEMENT VALUES:**

- 0 Not Applicable, Vehicle Not Registered
- 1 Driver (in this crash) Was Registered Owner
- 2 Driver (in this crash) Not Registered Owner (other private owner listed)
- 3 Vehicle Registered as Business/Company/Government Vehicle
- 4 Vehicle Registered as Rental Vehicle
- 5 Vehicle Was Stolen (reported by police)
- 6 Driverless/Motor Vehicle Parked/Stopped Off Roadway
- 9 Unknown

**Definition:** This element is used to determine the type of registered owner of the vehicle.

**Remarks:**

The type of ownership, “loan vs. lease,” does not change the coding. An individual or company should be the Registered Vehicle Owner, regardless of the bank holding the loan or lease. Banks and leasing companies should be the Registered Vehicle Owner for their own fleets only.

**0 (Not Applicable, Vehicle Not Registered)** applies to vehicles that are not registered, both exempt from registration and illegally not registered. (See **5 (Vehicle Was Stolen [reported by police])** for stolen vehicles.)

**2 (Driver (in this crash) Not Registered Owner [other private owner listed])** is used for private owners other than the driver. Also, if the driver is a spouse of the owner but is not a co-owner.

**4 (Vehicle Registered as Rental Vehicle)** applies for rental vehicles, such as: Hertz, Ryder trucks, etc.

**5 (Vehicle Was Stolen [reported by police])** takes precedence over codes “0, 2, 3, 4, 6,” when multiple conditions exist.

**6 (Driverless/Motor Vehicle Parked/Stopped Off Roadway)** is used for both in-transport and not in-transport motor vehicles. This attribute should always be used if Unit Type is coded as “2” or “3,” even if other applicable conditions exist. This attribute is also used to indicate that this is a “driverless” motor vehicle in-transport (e.g., driverless vehicle stopped in a travel lane).

If indicating this is a “driverless” motor vehicle in-transport, this attribute does not take precedence over codes “0, 3, 4, 5,” when multiple conditions exist.

**9 (Unknown)** is used when information on the registered owner is unknown or unclear; and in certain cases when the driver cannot be determined, but the registered owner is known.

### **Consistency Checks:**

<b>IF</b>	<b>THEN</b>
(9A2P) UNIT TYPE equals 2, 3,	REGISTERED VEHICLE OWNER must equal 6.
(AQ0P) REGISTRATION STATE equals 00, 92,	REGISTERED VEHICLE OWNER must equal 0, 5, 6.
(AR0P) SPECIAL USE equals 04,	REGISTERED VEHICLE OWNER must not equal 0, 1, 2, 4.
(AS0P) RELATED FACTORS-VEHICLE LEVEL equals 32,	REGISTERED VEHICLE OWNER must not equal 0.
(AV0P) REGISTERED VEHICLE OWNER equals 3, 4,	REGISTRATION STATE must not equal 99.
(CB0P) REGISTERED VEHICLE OWNER equals 6,	DRIVER PRESENCE must equal 0.
(D330) DRIVER PRESENCE equals 0, and REGISTRATION STATE is not equal to 00, 92, 99,	REGISTERED VEHICLE OWNER should equal 3-6.
(V550) REGISTRATION STATE equals 93, 94,	REGISTERED VEHICLE OWNER should equal 3, 4.
(V560) SPECIAL USE equals 04,	REGISTERED VEHICLE OWNER should equal 3, and REGISTRATION STATE should equal 94.
(V570) HM1 equals 2,	REGISTERED VEHICLE OWNER should not equal 0, 1, 2, 4.
(V580) HM1 equals 2,	REGISTERED VEHICLE OWNER should equal 3.
(V600) REGISTERED VEHICLE OWNER equals 9,	REGISTRATION STATE should equal 99.
(V630) REGISTRATION STATE equals 00, 92,	REGISTERED VEHICLE OWNER should NOT equal 5.
(V670) REGISTERED VEHICLE OWNER equals 1, 2,	REGISTRATION STATE should NOT equal 99.
(V960) REGISTRATION STATE equals 99,	REGISTERED VEHICLE OWNER should equal 5, 6, 9.
(VH25) UNIT TYPE equals 4,	REGISTERED VEHICLE OWNER should not equal 6, 9.

**Consistency Check (FARS Only):**

<b>IF</b>	<b>THEN</b>
(V590) RELATED FACTORS-VEHICLE LEVEL equals 32,	REGISTERED VEHICLE OWNER should equal 1-3.
(V593) RELATED FACTORS-VEHICLE LEVEL equals 37,	REGISTERED VEHICLE OWNER should not equal 0.

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## **VEHICLE MAKE/VEHICLE MODEL OVERVIEW**

### **FARS SPECIAL INSTRUCTION:**

VEHICLE MAKE, VEHICLE MODEL, BODY TYPE, VEHICLE MODEL YEAR as shown on crash reports must be verified with registration data. In the case of inconsistencies, registration data takes precedence over crash report data. Note that vehicle information should be gathered only from state records. Do not use any other sources to determine any of these elements, that is; you should not use sources such as the NATB Passenger Vehicle Identification Manual.

VEHICLE MAKE attributes are organized into general groups. These groups are:

01-28	Domestic Passenger Car
29	Other Domestic Passenger Car
30-67	Import Passenger Car
69	Other Import Passenger Car
70-77	Motored Cycle/Moped
80-89	Truck/Bus
90-94	Bus
97	Not Reported
98	Other Make (where MAKE "29" or "69" are not applicable)
99	Unknown Make

VEHICLE MODEL refers to the series of vehicles for a make, e.g., Pintos, Galaxies, Mustangs are Models of Ford. It does not refer to the various styles within a model unless they are listed in the codes for VEHICLE MODEL.

VEHICLE MODEL attributes are organized into general groups. These groups are:

001-399	Passenger Car (automobile)
400-499	Light Trucks (including truck based utility vehicles, light duty pickup trucks, standard pickup trucks, vans, mini vans, van-based station wagons, van-based buses, van derivatives, and truck-based station wagons).
598	Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)
599	Unknown Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)
700-739	Motored Cycles (including motorcycles, mini-bikes, motor scooters, dirt bikes, and mopeds).
850	Motor Home (truck based)
870	Medium/Heavy Van-Based Vehicle
880-897	Trucks (including all trucks over 10,000 lbs. GVWR except those pick-up type trucks mentioned under BODY TYPE code "30, 31" [Pickup]).
898	Other, Unknown, truck over 10,000 lbs. GVWR.
980-996	All buses except those that are van-based.
988	Other bus over 10,000 lbs. GVWR.
989	Unknown Bus

997	Not Reported
998	Other Vehicle
999	Unknown Vehicle

Note that for both VEHICLE MAKE and VEHICLE MODEL the use of the terms “other” and “unknown” have very specific meanings. “Other” refers to a VEHICLE MAKE or VEHICLE MODEL that is known but is not explicitly listed. “Unknown” refers to the situation where no specific named VEHICLE MAKE or VEHICLE MODEL is known. Selection of the proper “other” or “unknown” code can only be made with consideration of the vehicle BODY TYPE in accordance with the applicable BODY TYPE for given combinations of “other” and/or “unknown” VEHICLE MAKE and VEHICLE MODEL.

4WD, FWD, or Four-Wheel Drive does not automatically imply on/off road vehicle (Utility Vehicles), body types “14” and “15.”

**Reconstructed/Altered Vehicles:** In cases where someone builds a “homemade” vehicle from drastically mixed parts, there may be no clear MAKE or MODEL. In addition, the state may issue an Identification Number in place of the Standard VIN. In such cases, code the VIN as all “0’s”; code MAKE, MODEL, and MODEL YEAR as “9’s.” Code BODY TYPE as appropriate. Be sure to use RELATED FACTORS-VEHICLE LEVEL code Reconstructed/Altered Vehicle.

In reconstructed/altered vehicles where the modifications are less drastic and you can determine the MAKE, MODEL and VIN, code these elements appropriately and be sure to use Related Factors-Vehicle Level code Reconstructed/Altered Vehicle.

If any detail is known regarding the vehicle’s Make/Model/Body/Year, code what is known and then code the other elements as unknown. For example, you know it’s a Ford 4-door passenger car but the specific model and year are not reported. Code Vehicle Make as **12 (Ford)**, Vehicle Model as **399 (Unknown (Automobile))**, Body Type as **04 (4-Door Sedan, Hard Top)**, and Vehicle Model Year as **9999 (Unknown)**

Code **Not Reported** only when Vehicle Make, Vehicle Model, Body Type and Vehicle Model Year are all Not Reported.

### **Not Reported**

If a state’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “Not Reported”.

Code **Not Reported** in these two situations:

1. No field or coding block exists on the state’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)

2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

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## **VEHICLE MAKE**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.Make, Person.Make; Parkwork.PMAKE

**ELEMENT VALUES:**

01	American Motors	47	Saab
02	Jeep/Kaiser-Jeep/Willys-Jeep	48	Subaru
03	AM General	49	Toyota
06	Chrysler	50	Triumph
07	Dodge	51	Volvo
08	Imperial	52	Mitsubishi
09	Plymouth	53	Suzuki
10	Eagle	54	Acura
12	Ford	55	Hyundai
13	Lincoln	56	Merkur
14	Mercury	57	Yugo
18	Buick/Opel	58	Infiniti
19	Cadillac	59	Lexus
20	Chevrolet	60	Diahatsu
21	Oldsmobile	61	Sterling
22	Pontiac	62	Land Rover
23	GMC	63	Kia
24	Saturn	64	Daewoo
25	Grumman	65	Smart
26	Coda	67	Scion
29	Other Domestic Manufacturers	69	Other Import
30	Volkswagen	70	BSA
31	Alfa Romeo	71	Ducati
32	Audi	72	Harley-Davidson
33	Austin/Austin Healey	73	Kawasaki
34	BMW	74	Moto-Guzzi
35	Datsun/Nissan	75	Norton
36	Fiat	76	Yamaha
37	Honda	77	Victory
38	Isuzu	80	Brockway
39	Jaguar	81	Diamond Reo/Reo
40	Lancia	82	Freightliner
41	Mazda	83	FWD
42	Mercedes-Benz	84	International Harvester/Navistar
43	MG	85	Kenworth
44	Peugeot	86	Mack
45	Porsche	87	Peterbilt
46	Renault	88	Iveco/Magirus

89	White/Autocar	White/GMC	94	Thomas Built
90	Bluebird		97	Not Reported
91	Eagle Coach		98	Other Make
92	Gillig		99	Unknown Make
93	MCI			

**Definition:** This element identifies the make (manufacturer) of this vehicle.

**Remarks:**

**SEE ADDITIONAL REMARKS BEFORE VEHICLE MAKE – V9**

Note that for both Vehicle Make and Vehicle Model, the use of the terms "other" and "unknown" have very specific meanings. "Other" refers to a make or model which is known but is not explicitly listed. "Unknown" refers to the situation where no specific make or model is known. Examples: **399 (Unknown (Automobile))**, **499 (Unknown (Light Truck))**, **739 (Unknown cc (ATV))**, **884 (Medium/Heavy Truck - Unknown Engine Location)**, **999 (Unknown)**.

Selection of the proper "other" or "unknown" code can only be made with consideration of the vehicle's body type. For example, if a medium/heavy truck or bus make is known and is not listed, Vehicle Make, is coded **OTHER MAKE (med/heavy truck/bus or "other")** and the appropriate model code is used. If the make is unknown but the body type is known as a "school bus", for instance, Vehicle Make, is coded **99 (Unknown Make)** and Vehicle Model, is coded **989 (Unknown (Bus))**.

**99 (Unknown Make)** is used for a "hit-and-run" vehicle unless reliable evidence indicates the vehicle's make.

**97 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **97 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

If a vehicle make or vehicle model is encountered that is not listed, headquarters is notified.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(920P)	any one of the fields MAKE, MODEL, BODY TYPE, and MODEL YEAR, equals Not Reported [MAKE (97), MODEL (997), BODY TYPE (98), and MODEL YEAR (9998)],	the other three must also equal Not Reported.
(921P)	MAKE is not 97, 98, 99, and equals ___, and MODEL equals___,	MODEL YEAR must equal ___, or CRASH YEAR plus 1.
(930P)	any one of the fields MAKE, MODEL, BODY TYPE, and MODEL YEAR, does not equal Not Reported [MAKE (97), MODEL (997), BODY TYPE (98), and MODEL YEAR (9998)],	the other three must also not be coded as Not Reported.
(960P)	MAKE is not 98, 99, and equals____, and MODEL equals____,	BODY TYPE must equal____.
(U480)	UNLIKELY: VEHICLE MAKE equals 97.	
(V922)	MAKE equals 98, 99, and MODEL equals____,	MODEL YEAR should equal ____.
(V961)	MAKE equals 98, 99, and MODEL equals____,	BODY should equal____.

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## **VEHICLE MODEL**

**FORMAT:** 3 numeric

**SAS NAME:** Vehicle.Model; Person.Model; Parkwork.PMODEL

**ELEMENT VALUES:**

001-397	Automobiles
398	Other (Automobile)
399	Unknown (Automobile)
401-497	Light Trucks
498	Other (Light Trucks)
499	Unknown (Light Trucks)
598	Other (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV))
599	Unknown (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV))
701-706	Motorcycles
709	Unknown cc (Motorcycles)
731-734	All Terrain Vehicles
739	Unknown cc (ATV)
801- 809	Other Make (Medium/Heavy Trucks)
850	Motor Home
870	Medium/Heavy Van-Based Vehicle
880	Medium/Heavy Pickup (pickup-style only – over 10,000 lbs)
881	Medium/Heavy Trucks – CBE
882	Medium/Heavy Trucks – COE (low entry)
883	Medium/Heavy Trucks – COE (high entry)
884	Medium/Heavy Trucks – Unknown engine location
890	Medium/Heavy Trucks – COE (entry position unknown)
898	Other (Medium/Heavy Trucks)
901-908	Other Make (Buses)
981-987	Buses
988	Other (Bus)
989	Unknown (Bus)
997	Not Reported
998	Other (Vehicle)
999	Unknown

**Definition:** This element identifies the model of this vehicle within a given make.

**Remarks:**

**SEE ADDITIONAL REMARKS BEFORE VEHICLE MAKE – V9**

Note that for both Vehicle Make and Vehicle Model, the use of the terms "other" and "unknown" have very specific meanings. "Other" refers to a make or model which is known but is not explicitly listed. "Unknown" refers to the situation where no specific make or model is known. Examples: **399 (Unknown (Automobile)), 499 (Unknown (Light Trucks)), 739 (Unknown cc (ATV)), 884 (Medium/Heavy Trucks - Unknown Engine Location), 999 (Unknown).**

Selection of the proper "other" or "unknown" code can only be made with consideration of the vehicle's body type. For example, if a medium/heavy truck or bus make is known and is not listed, Vehicle Make, is coded **OTHER MAKE (med/heavy truck/bus or "other")** and the appropriate model code is used. If the make is unknown but the body type is known as a "school bus", for instance, Vehicle Make, is coded **99 (Unknown Make)** and Vehicle Model, is coded **989 (Unknown (Bus))**.

**Unknown Make** is used for a "hit-and-run" vehicle unless reliable evidence indicates the vehicle's make.

#### **997 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **997 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

If a vehicle make or vehicle model is encountered that is not listed, headquarters is notified.

#### **Consistency Checks:**

IF	THEN
(920P) any one of the fields MAKE, MODEL, BODY TYPE, and MODEL YEAR, equals Not Reported [MAKE (97), MODEL (997), BODY TYPE (98), and MODEL YEAR (9998)],	the other three must also equal Not Reported.
(921P) MAKE is not 97, 98, 99, and equals ___, and MODEL equals ___,	MODEL YEAR must equal ___, or CRASH YEAR plus 1.

	<b>IF</b>	<b>THEN</b>
(930P)	any one of the fields MAKE, MODEL, BODY TYPE, and MODEL YEAR, does not equal Not Reported [MAKE (97), MODEL (997), BODY TYPE (98), and MODEL YEAR (9998)],	the other three must also not be coded as Not Reported.
(960P)	MAKE is not 98, 99, and equals_____, and MODEL equals_____,	BODY TYPE must equal_____.
(U460)	UNLIKELY: VEHICLE MODEL equals 997.	
(V922)	MAKE equals 98, 99, and MODEL equals_____,	MODEL YEAR should equal _____.
(V961)	MAKE equals 98, 99, and MODEL equals_____,	BODY should equal_____.

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## ALPHABETICAL LISTING OF MAKES

FARS MAKE CODE	MAKE	MAKE/ MODEL TABLE PAGE #	NCIC CODE*	FARS MAKE CODE	MAKE	MAKE/ MODEL TABLE PAGE #	NCIC CODE*
54	Acura	231	(ACUR)	98-905	DINA	320	(DINA)
31	Alfa Romeo	231	(ALFA)	98-803	Divco	320	(DIVC)
03	AM General	232	(AMGN)	07	Dodge	248	(DODG)
01	American Motors	233	(AMER)	71	Ducati	303	(DUCA)
69-031	Aston Martin	300	(ASTO)	10	Eagle	252	(EGIL)
32	Audi	234	(AUDI)	91	Eagle Coach	317	
33	Austin/Austin Healey	236	(AUST)	29-398	Excaliber	300	(EXCL)
29-001	Avanti	299	(AVTI)	69-035	Ferrari	300	(FERR)
98-802	Auto-Union-DKW	320	(AUTU)	36	Fiat	252	(FIAT)
69-042	Bentley	301	(BENT)	69-398	Fisker	302	
69-052	Bertone	301	(BERO)	12	Ford	253	(FORD)
90	Bluebird	317	(BLUI)	82	Freightliner	309	(FRHT)
34	BMW	236	(BMW)	69-398	FWD	310	(FWD)
69-032	Bricklin	300	(BRIC)	83	Gazelle	302	(GZL)
80	Brockway	307	(BROC)	92	Gillig	318	
70	BSA	303	(BSA)	23	GMC	257	(GMC)
69-064	Bugatti	302		25	Grumman	260	(GRUM)
18	Buick	238	(BUIC)	72	Harley-	303	(HD)
19	Cadillac	240	(CADI)	69-036	Davidson		
98-903	Carpenter	320		98-806	Hillman	300	(HILL)
69-062	Caterham	302		37	Hino	320	(HINO)
29-002	Checker	299	(CHEC)	29-398	Honda	260	(HOND)
20	Chevrolet	241	(CHEV)	55	Hudson	300	(HUDS)
06	Chrysler	245	(CHRY)	08	Hyundai	262	(HYUN)
69-033	Citroen	300	(CITR)	58	Imperial	263	(CHRY)
26	Coda	247		84	Infiniti	263	(INFI)
98-904	Collins Bus	320		International	International	311	(INTL)
64	Daewoo	247	(DAEW)	Harvester			
60	Daihatsu	247	(DAIH)	38	Isuzu	265	(ISU )
35	Datsun	279	(DATS)	88	Iveco/Magirus	314	(IVEC)
69-034	DeLorean	300	(DELO)	39	Jaguar	266	(JAGU)
29-398	Desoto	300	(DESO)	69-037	Jensen	300	(JENS)
69-048	Desta	301		02	Jeep	267	(AMER)
81	Diamond Reo or Reo	308	(DIAR)	02	Kaiser-Jeep	267	(AMER)
				73	Kawasaki	304	(KAWK)
				85	Kenworth	312	(KW)

FARS MAKE CODE	MAKE	MAKE/ MODEL TABLE	NCIC CODE*	FARS MAKE CODE	MAKE	MAKE/ MODEL TABLE	NCIC CODE*
		PAGE #				PAGE #	
63	Kia	268	(KIA)	69-049	Reliant (British)	301	(RELA)
69-058	Koenigsegg	<b>302</b>		46	Renault	287	(RENA)
69-053	Lada	301	(LADA)	69-042	Rolls Royce	301	(ROL)
69-038	Lamborghini	301	(LAMO)	47	Saab	287	(SAA)
40	Lancia	269	(LNCI)	29-004	Saleen	299	
62	Land Rover	269	(LNDR)	24	Saturn	288	(STRN)
59	Lexus	270	(LEXS)	98-807	Scania	320	(SCAN)
13	Lincoln	270	(LINC)	67	Scion	289	(SCIO)
69-039	Lotus	<b>301</b>	(LOTU)	69-044	Simca	301	(SIM)
86	Mack	313	(MACK)	69-398	Singer	302	(SIN)
69-061	Mahindra	302		65	Smart	289	(SMRT)
69-040	Maserati	301	(MASE)	69-057	Spyker	<b>302</b>	
69-056	Maybach	302	(MAYB)	61	Sterling	289	(STLG)
41	Mazda	271	(MAZD)	98-809	Sterling	320	(STLG)
69-063	McLaren	302		29-001	Studebaker	299	(STU )
93	MCI	318	(MCIN)	29-398	Stutz	300	(STUZ)
42	Mercedes-Benz	273	(MERZ)	48	Subaru	290	(SUBA)
14	Mercury	275	(MERC)	69-045	Sunbeam	301	(SUNB)
56	Merkur	277	(MERK)	53	Suzuki	291	(SUZI)
98-302	Meyers Motors	319		<b>29-005</b>	Tesla	<b>299</b>	
98-906	Mid Bus	320		98-301	Think	319	
69-054	Mini-Cooper	301	(MNNI)	94	Thomas Built	318	(THMS)
43	MG	277	(MG)	49	Toyota	292	(TOYT)
52	Mitsubishi	278	(MITS)	50	Triumph	294	(TRIU)
69-055	Morgan	302	(MORG)	69-046	TVR	301	(TVR)
69-041	Morris	301	(MORR)	98-808	UD	320	(UD)
74	Moto-Guzzi	304	(MOGU)	98-908	Van Hool	321	
84	Navistar	311	(NAVI)	77	Victory	305	(VCTY)
98-902	Neoplan	320	(NEOP)	30	Volkswagen	295	(VOLK)
35	Nissan	279	(NISS)	51	Volvo	297	(VOLV)
75	Norton	305	(NORT)	98-804	Western Star	320	(WSTR)
21	Oldsmobile	282	(OLDS)	89	White/Autocar	316	(WHIT)
18	Opel	239	(OPEL)	89	White/GMC	316	(WHGM)
98-907	Orion	321	(ONTR)	02	Willys-Jeep	267	(AMER)
98-805	Oshkosh	320	(OSHK)	76	Yamaha	305	(YAMA)
29-398	Packard	300	(PACK)	57	Yugo	299	(YUGO)
29-003	Panoz	299	(PANZ)				
87	Peterbilt	315	(PTRB)				
44	Peugeot	283	(PEUG)				
09	Plymouth	283	(PLYM)				
22	Pontiac	285	(PONT)				
45	Porsche	286	(PORS)				

## NUMERICAL LISTING OF MAKES

FARS MAKE CODE	MAKE	MAKE/ MODEL TABLE PAGE #	NCIC CODE*	FARS MAKE CODE	MAKE	MAKE/ MODEL TABLE PAGE #	NCIC CODE*
01	American Motors	233	(AMER)	41	Mazda	271	(MAZD)
02	Jeep	267	(AMER)	42	Mercedes-Benz	273	(MERZ)
02	Kaiser-Jeep	267	(AMER)	43	MG	277	(MG)
02	Willys-Jeep	267	(AMER)	44	Peugeot	283	(PEUG)
03	AM General	232	(AMGN)	45	Porsche	286	(PORS)
06	Chrysler	245	(CHRY)	46	Renault	287	(RENA)
07	Dodge	248	(DODG)	47	Saab	287	(SAA)
08	Imperial	263	(CHRY)	48	Subaru	290	(SUBA)
09	Plymouth	283	(PLYM)	49	Toyota	292	(TOYT)
10	Eagle	252	(EGIL)	50	Triumph	294	(TRIU)
12	Ford	253	(FORD)	51	Volvo	297	(VOLV)
13	Lincoln	270	(LINC)	52	Mitsubishi	278	(MITS)
14	Mercury	275	(MERC)	53	Suzuki	291	(SUZI)
18	Buick	238	(BUIC)	54	Acura	231	(ACUR)
18	Opel	239	(OPEL)	55	Hyundai	262	(HYUN)
19	Cadillac	240	(CADI)	56	Merkur	277	(MERK)
20	Chevrolet	241	(CHEV)	57	Yugo	299	(YUGO)
21	Oldsmobile	282	(OLDS)	58	Infiniti	263	(INFI)
22	Pontiac	285	(PONT)	59	Lexus	270	(LEXS)
23	GMC	257	(GMC)	60	Daihatsu	247	(DAIH)
24	Saturn	288	(STRN)	61	Sterling	289	(STLG)
25	Grumman	260	(GRUM)	62	Land Rover	269	(LNDR)
26	Coda	247		63	Kia	268	(KIA)
30	Volkswagen	295	(VOLK)	64	Daewoo	247	(DAEW)
31	Alfa Romeo	231	(ALFA)	65	Smart	289	(SMRT)
32	Audi	234	(AUDI)	67	Scion	289	(SCIO)
33	Austin/Austin	236	(AUST)	70	BSA	303	(BSA)
	Healey			71	Ducati	303	(DUCA)
34	BMW	236	(BMW)	72	Harley-	303	(HD)
35	Datsun	279	(DATS)		Davidson		
35	Nissan	279	(NISS)	73	Kawasaki	304	(KAWK)
36	Fiat	252	(FIAT)	74	Moto-Guzzi	304	(MOGU)
37	Honda	260	(HOND)	75	Norton	305	(NORT)
38	Isuzu	265	(ISU )	76	Yamaha	305	(YAMA)
39	Jaguar	267	(JAGU)	77	Victory	305	(VCTY)
40	Lancia	269	(LNCL)	80	Brockway	307	(BROC)

FARS MAKE CODE	MAKE	MAKE/ MODEL TABLE PAGE #	NCIC CODE*	FARS MAKE CODE	MAKE	MAKE/ MODEL TABLE PAGE #	NCIC CODE*
81	Diamond Reo or Reo	308	(DIAR)	69-044	Simca	301	(SIM)
				69-045	Sunbeam	301	(SUNB)
82	Freightliner	309	(FRHT)	69-046	TVR	301	(TVR)
83	FWD	310	(FWD)	69-048	Desta	301	
84	International Harvester	311	(INTL)	69-049	Reliant (British)	301	(RELA)
				69-052	Bertone	301	(BERO)
84	Navistar	311	(NAVI)	69-053	Lada	301	(LADA)
85	Kenworth	312	(KW)	69-054	Mini-Cooper	301	(MNNI)
86	Mack	313	(MACK)	69-055	Morgan	302	(MORG)
87	Peterbilt	315	(PTRB)	69-056	Maybach	302	(MAYB)
88	Iveco/Magirus	314	(IVEC)	69-057	Spyker	<b>302</b>	
89	White/Autocar	316	(WHIT)	69-058	Koenigsegg	<b>302</b>	
89	White/GMC	316	(WHGM)	69-061	Mahindra	302	
90	Bluebird	317	(BLUI)	69-062	Caterham	302	
91	Eagle Coach	317		69-063	McLaren	302	
92	Gillig	318		69-064	Bugatti	302	
93	MCI	318	(MCIN)	69-398	Fisker	302	
94	Thomas Built Avanti	318	(THMS)	69-398	Gazelle	302	(GZL)
29-001	Studabaker	299	(STU )	69-398	Singer	302	(SIN)
29-001	Checker	299	(CHEC)	98-301	Think	319	
29-002	Panoz	299	(PANZ)	98-302	Meyers Motors	319	
29-003	Saleen	299		98-802	Auto-Union- DKW	320	(AUTU)
29-004	Tesla	<b>299</b>	<b>29-005</b>	98-803	Divco	320	(DIVC)
29-398	Desoto	300	(DESO)	98-804	Western Star	320	(WSTR)
29-398	Excaliber	300	(EXCL)	98-805	Oshkosh	320	(OSHK)
29-398	Hudson	300	(HUDS)	98-806	Hino	320	(HINO)
29-398	Packard	300	(PACK)	98-807	Scania	320	(SCAN)
29-398	Stutz	300	(STUZ)	98-808	UD	320	(UD)
69-031	Aston Martin	300	(ASTO)	98-809	Sterling	320	(STLG)
69-032	Bricklin	300	(BRIC)	98-902	Neoplan	320	(NEOP)
69-033	Citroen	300	(CITR)	98-903	Carpenter	320	
69-034	DeLorean	300	(DELO)	98-904	Collins Bus	320	
69-035	Ferrari	300	(FERR)	98-905	DINA	320	(DINA)
69-036	Hillman	300	(HILL)	98-906	Mid Bus	320	
69-037	Jensen	300	(JENS)	98-907	Orion	321	(ONTR)
69-038	Lamborghini	301	(LAMO)	98-908	Van Hool	321	
69-039	Lotus	<b>301</b>	(LOTU)				
69-040	Maserati	301	(MASE)				
69-041	Morris	301	(MORR)				
69-042	Bentley	301	(BENT)				
69-042	Rolls Royce	301	(ROL)				

## PASSENGER CARS

<b>MAKE:</b>	<b>Acura</b>	<b>(54)</b>	<b>(ACUR)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	Integra	GS, LS, RS, GS-R, Type R	1986-2001, 9999	03-05,07,09
032	Legend	L, LS, GS, Special Edition, GS-R	1986-95,9999	02,04,08,09
033	NSX	NSX-T	1991-2005, 9999	02
034	Vigor		1992-94,9999	04
035	TL	3.2, 3.5, 3.7, SH-AWD (AT/MT)	1996- <b>2014</b> , 9999	04
036	RL/RLX	3.5, 3.7	1996- <b>2014</b> , 9999	04
037	CL	2.2, 2.3, 3.0, 3.2, Type S	1997-2003, 9999	02
038	RSX	2.0, Type S	2002-06,9999	03
039	TSX	2.4, 3.5, Hybrid, Special Edition, V6	2004- <b>14</b> ,9999	04, 06, 09
040	ZDX	3.7, SH-AWD	2010-13,9999	05
041	ILX	2.0, 2.4, Hybrid	2013- <b>14,9999</b>	04
398	Other (automobile)		1986- <b>2014</b> , 9999	02-09
399	Unknown (automobile)		1986- <b>2014</b> , 9999	02-09
<b>LIGHT TRUCKS</b>				
401	SLX		1996-2000, 9999	14
402	RDX	2.3, SH-AWD	2007- <b>14,9999</b>	14
421	MDX		2001- <b>14,9999</b>	15
499	Unknown (light truck)		1996- <b>2014</b> , 9999	19
999	Unknown (ACURA)		1986- <b>2014</b> , 9999	49

<b>MAKE:</b>	<b>Alfa Romeo</b>	<b>(31)</b>	<b>(ALFA)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	Spider (Spyder)	Roadsters, Veloce, Quadrifoglio, Duetto, Graduate, 1600/1750/1900/2000 roadsters, Giulia, Giulietta, Giulietta Veloce, Tipo	1933-94,9999	01,02,09

<b>MAKE:</b>	<b>Alfa Romeo (Cont.)</b>	<b>(31)</b>	<b>(ALFA)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
032	Sports Sedan	4-door sedans (except 164); Milano, Giulietta, Super, Berlina, Alfetta, Giulia 1750/1900/2000/2600 sedans, Alpha 90	1933-89,9999	04
033	Sprint/Special	2-door coupes; Alfetta GT, Monteal, 1750/1900/2000/2600 GTV, Sprint GT, GT Veloce, Giulia, Giulietta, Super, GTA, GTV, GTZ, TZ2	1933-80,9999	02
034	GTV-6		1981-86,9999	02
035	164 (Alpha 164)	LS, Q, Quadrifoglio	1990-95,9999	04
<b>036</b>	<b>4c</b>		<b>2014</b>	<b>02</b>
398	Other (automobile)	Alfa, Montreal	1933-95, <b>2014</b> ,9999	01-04,08,09
399	Unknown (automobile)		1933-95, <b>2014</b> ,9999	01-04,08,09

<b>MAKE:</b>	<b>AM General</b>	<b>(03)</b>	<b>(AMGN)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS</b>				
401	Dispatcher	Post Office (Jeep)	1965-94,9999	14
402	Hummer	H3 (Base, Luxury, Adventure, Limited Edition), x, Alpha	2006-11,9999	14
421	Hummer (SUV from 1993-2003; see 431 for 2004 on) (for Pickup, see model 481)	Slantback-HMSB, H1, H2	1992-2003, 9999	15
431	Hummer (2004 on; see model 421 for 1993-2003)	H1 (Base, Luxury, Adventure), H2 (Base, Luxury, Adventure), Limousine	2004-11,9999	16
466	Dispatcher	DJ-series-Post Office Van	1965-91,9999	22
481	Hummer (Pickup) (for SUV see model 421 for 1993-2003; see 431 for 2004 on)	H1, H2 (Base, Luxury, Adventure, Limited Edition), Alpha	1992-2011, 9999	31
482	Hummer	H3T (Adventure, Luxury, Alpha)	2009-11,9999	31
498	Other (light truck)		1940-2011, 9999	14-16,19,22,31-33, 39-42, 45, 48
499	Unknown (light truck)		1940-2011, 9999	14-16,19,22,31-33, 39-42, 45, 48, 49

<b>MAKE:</b>	<b>AM General (Cont.)</b>	<b>(03)</b>	<b>(AMGN)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>MEDIUM/HEAVY TRUCKS</b>				
884	Medium/Heavy Truck	Military off-road	1965-2011, 9999	60-64,71,72,78
898	Other (medium/heavy truck)		1965-94,9999	60-64,71,72,78
<b>BUSES</b>				
983	Bus: Rear engine, Flat front	Transit	1965-94,9999	52
988	Other (bus)		1965-94,9999	50-52,58,59
989	Unknown Bus Type		1965-94,9999	50-52,58,59
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1965-94,9999	<b>92,93,97</b>
999	Unknown (AM GENERAL)		1965-2011, 9999	49,79,99

<b>MAKE:</b>	<b>American Motors*</b>	<b>(01)</b>	<b>(AMER)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
001	Rambler American	Rogue, 220, 330, 440, 440-H, Scrambler Deluxe, Custom, Super, Classic, Brougham, SC	1954-69,9999	01,02,04,06,08,09
002	Rebel	Mariner, Briarcliff, Westerner, The Machine, SST, 550, Grant, King	1967-70,9999	01,02,04,06,08,09
002	Matador	Brougham, X, Oleg Cassini, Barcelona, Police, The Machine	1971-78,9999	02,04,06,08,09
002	Marlin	Black, Radar, Tahiti, Marlin II	1965-67,9999	02,08,09
003	Ambassador	800, 880, 990, SST, DPL, Brougham, DDL, Limited	1958-74,9999	02,04,06,08,09
004	Pacer	D/L, X, Limited	1975-80,9999	02,03,06,09
005	AMX	(2-seater only)	1968-70,9999	02,03,09
006	Javelin	SST, AMX (1971-1974)	1968-74,9999	02,03,09
007	Hornet	SST, Sportabout, AMX D/L, SC-360, Gucci Edition, Levi Trim Package, X	1970-77,9999	02-04,06,08,09
007	Concord	AMX Limited, D/L, Levi Trim, Sport, Base, Sundancer	1978-83,9999	01-04,06,08,09
008	Gremlin	Base, X, Levi Trim, GT, AMX	1970-78,9999	03,09
008	Spirit	GT, AMX, D/L, SST	1979-83,9999	02,03,09

<b>MAKE:</b>	<b>American Motors* (Cont.)</b>	<b>(01)</b>	<b>(AMER)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
009	Eagle	Sport, Series 30, Sundancer, Limited	1980-88,9999	01,04,06,08,09
010	Eagle SX-4	50 Series, Kammback, Sport	1981-84,9999	02,03,09
398	Other (automobile)		1940-88,9999	01-04,06,08,09
399	Unknown (automobile)		1940-88,9999	01-04,06,08,09

\* NOTE: Alliance, Encore, Premier (including L, DL, and Limited) is coded under Renault (46).

<b>MAKE:</b>	<b>Audi</b>	<b>(32)</b>	<b>(AUDI)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	Super 90		1966-72,9999	02,04,06,08,09
032	100	S, CS, LS, GL, Quattro (1989-on)	1970-77; 1989-94,9999	02,04,06,08,09
033	Fox		1973-79,9999	02,04,06,08,09
34	4000	Quattro, Coupe, Coupe GT, CS, S	1980-93,9999	02,04,08,09
35	5000	Quattro, CS, S, CS Turbo Quattro, T	1978-93,9999	04,06,09
036	80/90	Quattro, Coupe Quattro	1988-95,9999	04
037	200	Turbo Quattro	1989-92,9999	04,06,09
038	V-8 Quattro	100 series	1990-94,9999	04
039	Coupe Quattro	4000 series	1990-91,9999	02,03,09
040	S4 (1992-1994; 2000-2011 only. See model 055 for 2012 on)/S6 (1992-1994; 2000- 2011 only. See model 056 for 2013 on.)	Quattro, Avant Quattro (Wagon), 3.0, 4.2 Saloon, Avant (2.7), RS4, Special Edition, V10, 5.6, 5.2	1992-95; 2000-11,9999	01,04,06,09
041	Cabriolet (1994-1998)		1994-98,9999	01
42	A6	Avant Quattro Wagon (3.0L, 3.0T), Quattro (2.7T, 4.2), FrontTrak (2.8, 3.0L), RS6, 3.2, S Line, 3.0T (Premium, Premium Plus, Prestige), 2.0T (Premium, Premium Plus), Special Edition	1995- <b>2014</b> , 9999	04, 06, 09
43	A4	Avant Wagon (1.8T, 2.0T, 2.8, 3.0, 3.2), Avant Quattro Wagon, FrontTrak (1.8, 2.8, 3.0), Quattro (1.8T, 2.0T, 3.0, 3.2), Special Edition, S Line, 2.0T(Premium, Premium Plus, Prestige)	1996- <b>2014</b> , 9999	01,04,06,09

<b>MAKE:</b>	<b>Audi (Cont.)</b>	<b>(32)</b>	<b>(AUDI)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
044	A8	4.2 Quattro, L, W12, NWB, 3.0T, 4.0T, TDI	1997- <b>2014</b> , 9999	04
045	TT/TTS	FWD, Quattro AWD, 180, 225 Quattro Roadster, FrontTrak (180), 1.8L, 2.0, 3.2L, S Line, RS (Premium, Premium Plus, Prestige), 2.0T (Premium Plus, Prestige), RS	2000- <b>14</b> ,9999	01-03, 09
046	S8	4.2 Quattro, 5.2	2001-03; 2007-09; 2012- <b>14</b> , 9999	02,04,09
047	Allroad (2001-05 only. See 403 for 2013 on)	QuattroWagon, 2.7T, 4.2	2001-05, 9999	06
048	A3	2.0T/FSI, 3.2 S Line (Premium, Premium Plus), TDI	2006- <b>15</b> ,9999	05
049	A5	2.0, 2.0T, 3.2, (Premium, Premium Plus, Prestige)	2008- <b>14</b> ,9999	01,02,09
050	R8	4.2, 5.2, Spyder, GT (Spyder)	2008- <b>14</b> ,9999	01,02,09
051	A7	Premium, Premium Plus, Prestige	2008-10, 2012- <b>14</b> , 9999	04
052	S5	4.2, 3.0T (Premium Plus, Prestige)	2008- <b>14</b> ,9999	01,02,09
054	RS5	4.2 Prestige	2013- <b>14,9999</b>	<b>01,02,09</b>
055	S4 (2012 on only. See model 040 for 1992-1994; 2000-2011)	3.0T Prestige, Premium Plus	2012- <b>14</b> ,9999	04
056	S6 (2013 on. See model 040 for 1992-1994; 2000- 2011)	4.0TFSI Prestige	2013- <b>14,9999</b>	04
057	S7	<b>4.0</b> , Prestige	2013- <b>14,9999</b>	05
<b>058</b>	<b>RS7</b>		<b>2014</b>	<b>05</b>
<b>059</b>	<b>S3</b>		<b>2015</b>	<b>05</b>
398	Other (automobile)		1970- <b>2015</b> , 9999	01-06,08,09
399	Unknown (automobile)		1970- <b>2015</b> , 9999	01-06,08,09
<b>LIGHT TRUCKS</b>				
401	Q7	3.6/4.2, 3.0T, TDI (Premium, Premium Plus, Prestige) Hybrid, S Line,	2007- <b>14</b> ,9999	14
402	Q5	2.0T, 3.2, 3.0T (Premium, Premium Plus, Prestige), Hybrid	2008- <b>14</b> ,9999	14

<b>MAKE:</b>	<b>Audi (Cont.)</b>	<b>(32)</b>	<b>(AUDI)</b>
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Model	Codes	Includes	Model Years	Body Types
<b>LIGHT TRUCKS (Cont.)</b>				
403	Allroad (2013 on. For 2001-2005 see model 047.)	2.0T (Premium, Premium Plus, Prestige)	2013- <b>14,9999</b>	14
<b>404</b>	<b>SQ5</b>		<b>2014</b>	<b>14</b>
499	Unknown (light truck)		2007- <b>14,9999</b>	14
999	Unknown (AUDI)		<b>1966-2015,</b> 9999	49, 99

<b>MAKE:</b>	<b>Austin/Austin Healey</b>	<b>(33)</b>	<b>(AUST)</b>
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Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES</b>				
031	Marina	GT	1973-75,9999	01-04,08,09
032	America		1968-72,9999	02
033	Healey Sprite	Mark II, MKIV/Princess (Special Order)	1958-70,9999	01,04,09
034	Healey 100/3000	M, S, Mark III	1953-67,9999	01
035	Mini/Mini Cooper/Mini Moke	850, S	1960-69,9999	01,02,06,09
398	Other (automobile)	A35, A40, Westminster, Cambridge, Somerset, Seven, Hereford, Sports, Sheerline, Atlantic, Countryman, Dorset, Devon	1947-75,9999	01-04,06,08,09
399	Unknown (automobile)		1947-75,9999	01-04,06,08,09

<b>MAKE:</b>	<b>BMW</b>	<b>(34)</b>	<b>(BMW)</b>
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Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES</b>				
031	1600/1800/2000/2002	Ti, Tii, Tilux, TR, CS, 1600-2, SA, Turbo, A, 1500, 2600, 501, 502	1955-76,9999	01-04,08,09
032	Coupe (before 1975)	2800CS, 3.0CS, 3.0csi, 3.0csl, 3200, 503, 507, M1, 1802, 2000c/cs, 2002	1956-76,9999	01-03,09
033	Bavarian Sedan	2500, 2800, 2.8 Barvarian	1969-74,9999	04
034	3-series	3.0s/si, 318i/is/ti/ic, 320i, 323iS/iC/iCi, 325e/es/i/S/ii/Ci/Cic/xi/iT/xiT, Sport Wagon (iT/xiT), 328i/iS/ti/iC/Ci/xi, xDrive, 330i/Ci/Cic/xi, 335i/is/xi/d, xDrive, ActiveHybrid, M3, <b>Gran Tourismo</b>	1971- <b>2014,</b> 9999	01-04,06,08,09

<b>MAKE:</b>	<b>BMW (Cont.)</b>	<b>(34)</b>	<b>(BMW)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
035	5-series	524i, 525i/xi, 528i/iT/xi, xDrive, 530i/iT/xi, 533i, 535d/xi, xDrive, 550i, xDrive 540/i/iA/iT, TD Sport Wagon, 525i/iT, (wagon 1992-93), M5, 545i, 550i/ix, Gran Turismo, ActiveHybrid 5	1975- <b>2014</b> , 9999	04-06, 09
036	6-series	630, 633, 635, csi, M6, L6, 640i, 645Ci, 650i/ix, Neiman Marcus Edition, xDrive	1976-89, 2004- <b>14</b> , 9999	01, 02, 04, 09
037	7-series	733i, 735i, L7, 740i/L/iL/iA /Li Protection, 750 i/Li/Li/Lx/Lx Protection, 745i/Li, 760i/Li, Alpina B7, Individual, ActiveHybrid, xDrive	1978- <b>2014</b> , 9999	04
038	8-series	840Ci/cia, 850i/iS/Ci/Cia	1991-97, 9999	02
039	Z3	2.3/2.8/2.5i/3.0i Roadster, MRoadster, MCoupe, 2.8/3.0i Coupe	1996-2003, 9999	01-03, 09
040	Z8		2000-03, 9999	01
041	V5		2007-08, 9999	06
042	Z4	2.5i, 2.8i, 3.0i/si, 3.5i/is, Z4M/sDrive	2003- <b>14</b> , 9999	01, 02, 09
043	1-Series	128i, 135i/is, Electric	2008- <b>14</b> , 9999	01, 02, 09
044	X6	35i, 50i, ActiveHybrid, M, xDrive	2008- <b>14</b> , 9999	05
<b>045</b>	<b>i3</b>		<b>2014</b>	<b>03</b>
<b>046</b>	<b>i8</b>		<b>2014</b>	<b>02</b>
<b>047</b>	<b>4-Series</b>	<b>428i, 435i, xDrive</b>	<b>2014</b>	<b>01, 02, 09</b>
398	Other (automobile)		1955- <b>2014</b> , 9999	01-04, 06, 08, 09
399	Unknown (automobile)		1955- <b>2014</b> , 9999	01-04, 06, 08, 09
<b>LIGHT TRUCKS</b>				
401	X5	3.0i/si, 4.0is, 4.4i, 4.6is, 4.8is, M, 35d, Premium, 35i, 35d, 50i, Sport Activity, Premium	2000- <b>14</b> , 9999	14
402	X3	25i, 28i, 3.0i/xDrive, 35i, 4.8is, M Sports Package	2004- <b>14</b> , 9999	14
403	X1	28i/is, 35i, xDrive	2012- <b>14</b> , 9999	14
499	Unknown (light truck)		2000- <b>14</b> , 9999	14

<b>MAKE:</b>	<b>BMW (Cont.)</b>	<b>(34)</b>	<b>(BMW)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>MOTORCYCLES</b>				
703	125-349cc		1948-66,9999	80
705	450-749cc		1950-2003; 2006- <b>14</b> ,9999	80
706	750cc and over		1969- <b>2014</b> , 9999	80
709	Unknown cc		1948- <b>2014</b> , 9999	80
999	Unknown (BMW)		1948- <b>2014</b> , 9999	49, 99

<b>MAKE:</b>	<b>Buick</b>	<b>(18)</b>	<b>(BUIC)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
1	Special/Skylark	GS (350, 400, 455), Deluxe GS California, Sport Wagon, Custom Roadmaster (1946-59), Skylark Edition	1936-73, 9999	01,02,04,06, 08,09
2	LeSabre/Centurion/ Wildcat	Estate Wagon, Invicta, Custom, Limited, T-Type, Ltd, C.M.I, LE, Celebration Edition, Best Seller	1959-2005, 9999	01,02,04,06, 08,09
3	Electra/Electra 225/Park Avenue (1991-on)	Limited, Park Avenue, Ultra, Base, Prestige, SE	1959-2005, 9999	01,02,04,06, 08,09
4	Roadmaster	Estate Wagon, Limited	1991-96,9999	04,06,09
5	Riviera	S-Type, T-Type, Coupe Anniversary Edition, Silver Arrow	1963-93; 1995-99,9999	01,02,09
007	Century	Luxus, T-Type, FWD (82- on), Custom, Regal (72-77), Limited, LE, SE, Base, Special	1954-2005, 9999	01,02,04,06, 08,09
008	Apollo/Skylark	Skylark (75), S/R	1973-76,9999	02-04,08,09
010	Regal (RWD only)	Turbo, Luxus, Grand National GNX, T-Type	1978-88,9999	02,04,06,08,09
012	Skyhawk	S-Type, Roadhawk, T-Type, GT	1975-80; 1982-89,9999	02-04,06,08,09
015	Skylark (76-85)	S/R, S, Limited, Sport, T-Type	1975-85,9999	02-04,08,09
18	Somerset/Skylark	Skylark (86-on), Somerset, GS, Regal, Custom, Limited, T-Type	1985-98,9999	02,04,08,09
19	Regal (2011 on)	GS, CXL, Turbo, <b>Premium</b> <b>I/II</b>	2011- <b>14</b> ,9999	04

<b>MAKE:</b>	<b>Buick (Cont.)</b>	<b>(18)</b>	<b>(BUIC)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
020	Regal (FWD)	Limited, Custom, Gold, Grand Sport GS, LS, Sport	1987-2004, 9999	02,04,08,09
021	Reatta		1988-91,9999	01,02,09
022	LaCrosse	CX, CXL (FWD/AWD), CXS, Super, Leather, Premium I/II, Touring	2005- <b>14</b> ,9999	04
023	Lucerne	CX, CXL V6, CXL V8, CXS, Super, Special Edition	2006-11,9999	04
024	Enclave (2008-12 model years only. For 2013 on see model 421.)	CX, CXL (FWD/AWD)	2008-12,9999	06
025	Verano	Base, Convenience, Leather, Turbo, Premium	2012- <b>14</b> ,9999	04
031	Opel Kadett		1965-72,9999	02,04,06,08,09
032	Opel Manta	1900, Luxus, Ralley, Sports Coupe	1966-75,9999	02,04,06,08,09
033	Opel GT		1969-75,9999	02
034	Opel Isuzu	Deluxe, Sport	1976-79,9999	02,04,08,09
398	Other (automobile)		1965- <b>2014</b> , 9999	01-04,06,08,09
399	Unknown (automobile)		1950- <b>2014</b> , 9999	01-04,06,08,09
<b>LIGHT TRUCKS</b>				
401	Rendezvous	CX, CXL, Ultra, Plus	2002-07,9999	14
402	Rainier	CXL, CXL Plus	2004-07,9999	14
404	Encore	Convenience, Leather, Premium	2013- <b>14,9999</b>	14
421	Enclave (2013 on. See model 024 for 2008-12 model years.)	Convenience, Leather, Premium	2013- <b>14,9999</b>	15
441	Terraza	CX, CXL	2005-07,9999	20
498	Other (light truck)		2002-07, 2013- <b>14,9999</b>	14, 15, 20
499	Unknown (light truck)		2002-07, 2013- <b>14,9999</b>	14,15, 20
999	Unknown (BUICK)		1946- <b>2014</b> , 9999	49

<b>MAKE:</b>		<b>(19)</b>		<b>(CADI)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>	
<b>AUTOMOBILES</b>					
003	Deville/Fleetwood (except Limousine)	Coupe de Ville, Sedan de Ville, Fleetwood Brougham, Fleetwood 60 Special, d'Elegance, Concours, DHS, DTS	1940-2005, 9999	01,02,04,08,09	
004	Limousine	Fleetwood 75, Formal, Deville-based, DTS	1940- <b>2014</b> , 9999	12	
005	Eldorado	Biarritz, El-doro, Touring Coupe, ESC, ETC	1967-2003, 9999	01,02,09	
006	Commercial Series	Ambulance/Hearse, Professional	1940- <b>2014</b> , 9999	09-12	
009	Allante'		1987-93,9999	01,02,09	
014	Seville	Elegante, STS, SLS	1976-2004, 9999	04	
016	Cimarron	D'Oro	1982-88,9999	04	
017	Catera	Sport	1997-2001, 9999	04	
018	CTS/CTC	Luxury, Luxury Sport, V-Series, 2.8L, 3.0L, 3.6L, 6.2L Supercharged, Premium, Performance, Standard	2003- <b>14</b> ,9999	02-04,06,09	
019	XLR	Neiman Marcus Edition, V-Series, Standard, Platinum	2004-09,9999	01	
020	SRX	V6, V8, Sports Package, 2.8L Turbo, 3.0L, Luxury, Performance, Premium, Standard	2004- <b>14</b> ,9999	06	
021	STS	V6, V8, V-Series, Luxury, Premium, Standard, Platinum, 3.6L	2005-11,9999	04	
022	DTS	Luxury I, II, III, V8, 3.6L, Performance, Platinum	2006-11,9999	04	
023	XTS	Standard, Luxury, Premium, Platinum, <b>V-Sport</b>	2013- <b>14</b> ,9999	04	
024	ATS	2.0L/2.5L/3.6L (Standard, Luxury, Performance, Premium, Turbo)	2013- <b>14</b> ,9999	02,04,09	
<b>025</b>	<b>ELR</b>		<b>2014</b>	<b>02</b>	
398	Other (automobile)		1965- <b>2014</b> , 9999	01,02,04,06, 08,09,12	
399	Unknown (automobile)		1950- <b>2014</b> , 9999	01,02,04,06, 08,09,12	

<b>MAKE:</b>	<b>Cadillac (Cont.)</b>	<b>(19)</b>	<b>(CADI)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS</b>				
421	Escalade/ESV (from 2004 on; see 431 for 2003 only)	4WD, 2WD, Standard, Platinum, Limousine, Hybrid, Luxury, Premium, <b>Platinum</b>	1999-2000; 2002- <b>14,9999</b>	15
431	Escalade ESV (2003 only)	Luxury, Premium, Platinum	2003, 9999	16
480	Escalade EXT (from 2002 -2006; for 2007 on see 481)	4WD, 2WD	2002-06,9999	31
481	Escalade EXT (from 2007 on; see 480 for 2002-2006)	4WD, 2WD, Luxury, Premium, Standard	2007-13, 9999	31
498	Other (light truck)		1999-2000; 2002- <b>14,9999</b>	15, 16, 31
499	Unknown (light truck)		1999-2000; 2002- <b>14,9999</b>	19,39,49
999	Unknown (CADILLAC)		1940- <b>2014</b> , 9999	49
<b>MAKE:</b>	<b>Chevrolet</b>	<b>(20)</b>	<b>(CHEV)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
001	Chevelle/Malibu (thru '83)	Classic, Councours, Laguna**, S-3, Greenbriar, Estate, 300, SS-396/454, Deluxe	1963-83,9999	01,02,04,06, 08,09
002	Impala/Caprice ( <b>For SS from 2014 on, use 20-021.</b> )	Biscayne, Belair, Super Sport, Classic, Classic Brougham, Townsman, Brookwood, Kingswood, LS, LT, LTZ, Sport, SS, Luxury	1955-96; 2000- <b>14,9999</b>	01,02,04,06, 08,09
004	Corvette	Stingray, C5, Z06, Z06-R 50 <sup>th</sup> Anniversary Edition, Commemorative Edition, Indy Pace Car, ZR1, Grand Sport, 427	1953-82; 1984- <b>2014</b> , 9999	01-03,09
006	Corvair	Monza, Corsa, 500, Yenko	1960-69,9999	01,02,04,06, 08,09
007	El Camino	Royal Knight, SS	1958-94,9999	10
008	Nova (-'79)	Chevy II, LN, LE, Concours, SS-350/396, Rally	1962-79,9999	01-04,06,09
009	Camaro	SS, RS, LT, Berlinetta, Iroc-Z, Z28, LS, LT, ZL1	1967-2002, 2010- <b>14,9999</b>	01-03,09
010	Monte Carlo (thru '88)	LS, SS, Aerocoupe, Landau, Z34	1970-88,9999	02
011	Vega	GT, Cosworth	1971-77,9999	02-04,06,08,09

<b>MAKE:</b>	<b>Chevrolet (Cont.)</b>	<b>(20)</b>	<b>(CHEV)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
012	Monza	Spyder, 2 + 2, Towne Coupe	1974-80,9999	02-04,06,08,09
013	Chevette	S, Scooter, CS	1976-87,9999	03-05,07,09
015	Citation	X-11, Citation II	1980-85,9999	02-05,07,09
016	Cavalier	CS, RS, Z24, LS, Sport, Special Value Package	1982-2005, 9999	01-04,06,08,09
017	Celebrity	CS, Eurosport, VR	1982-90,9999	02,04,06,08,09
019	Beretta/Corsica	GT, GTZ, LT, LTZ, PX, QX, KX, LX, MX, Z26	1982-96,9999	02,04,05,08,09
020	Lumina	Z-34, Euro, LTZ, LS	1990-2001, 9999	02,04,06,08,09
<b>021</b>	<b>SS (For 2014 on. For Impala/Caprice SS use model 20-002.)</b>		<b>2014</b>	<b>04</b>
022	Cobalt	LS, LT, LTZ, SS, SS, Base Supercharged, Sport, VL	2005-11,9999	02,04,09
023	HHR	LS, 1LT, 2LT, SS, Panel	2006-11,9999	06
024	Traverse (2009-2012 only. For 2013 on see model 423.)	LS, LT, LTZ	2009-12,9999	06
025	Cruze	LS, LT, LTZ, ECO, <b>Turbo Diesel</b>	2011- <b>14</b> ,9999	02, 04, 09
026	Volt		2011- <b>14</b> ,9999	05
027	Caprice PPV		2011- <b>14</b> ,9999	04
028	Sonic	Base, LS, LT, LTZ, RS	2012- <b>14</b> ,9999	04,05,09
029	Spark	LS, LT, EV	2013- <b>14,9999</b>	05
031	Spectrum		1985-89,9999	02-05,08,09
032	Nova/Geo Prism/Prism	CL, NUMMI-built vehicles, LSi	1985-2002, 9999	02-05,07-09
033	Sprint/Geo Sprint	(Cultus - foreign)	1985-89,9999	03,05,07,09
034	Geo Metro/Metro	Lsi, Xfi	1989-2001, 9999	01,03-05,07,09
035	Geo Storm	Gsi	1985-93,9999	02,03,09
036	Monte Carlo (1995 on)	FWD, LS, Z34, LS, LT, LTZ, SS, Sport Edition	1995-2007, 9999	02
037	Malibu/Malibu Maxx	Base, LS, LT, LTZ, SS, Hybrid, ECO, Classic	1997- <b>2014</b> , 9999	04-06,09
038	SSR	Signature Series, LS, LS5, 1SS, 2SS, 3SS	2003-06,9999	10
039	Aveo/Aveo 5	Base, LS, LT, Special Value	2004-11,9999	04,05,09
398	Other (automobile)	Fleetmaster, Fleetline, Styline Special, One-fifty, Bel-Air, Del Ray, Biscayne	1930- <b>2014</b> , 9999	01-11
399	Unknown (automobile)		1930- <b>2014</b> , 9999	01-11

\*\*Nomad, Malibu , Laguna and other similar terms may be used on all models as a reflection of trim type.

<b>MAKE:</b> Chevrolet (Cont.)		<b>(20)</b>		<b>(CHEV)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>	
<b>LIGHT TRUCKS</b>					
401	S-10 Blazer/TrailBlazer (2002 only; for 2003 on, see 403)	S-10 p/u based,LS,LT,ZR2 TrailBlazer, Xtreme, ZR2, LS, LT, LTZ, EXT	1982-2005, 9999	14	
402	Geo Tracker/Tracker	Lsi, LT, ZR2	1989-2004, 9999	14	
403	TrailBlazer (from 2003 on; for 2002, see 401)	LS, LT, LTZ, North Face Edition, EXT, SS (LS/LT)	2003-09,9999	14	
404	Equinox	LS, LT, LTZ, Sport	2005- <b>14</b> ,9999	14	
405	Captiva	Sport	2012- <b>14</b> ,9999	14	
421	Fullsize Blazer/Tahoe	K-series, fullsize p/u based, LS, LT, LTD, LTZ, 4WD, Z71, Hybrid	1969- <b>2015</b> , 9999	15	
422	Suburban (from 2004 on; see 431 for 1950-2003)	LS, LT, LTZ, Z71	2004- <b>15</b> ,9999	15	
423	Traverse (2013 on. For 2009-2012 see model 024.)	LS, LT, LTZ	2013- <b>14,9999</b>	15	
431	Suburban (from 1950- 2003; see 422 for 2004 on)	all models (C1500/2500, K1500/2500), LS, LT, Z71	1950-2003, 9999	16	
441	Astro Van	Minivan, Cargo, Passenger, LT, LS, Conversion	1985-2005, 9999	20	
442	Lumina APV	Minivan, MPV	1990-96,9999	20	
443	Venture	Cargo, Passenger, Plus, LS, LT, Value, Value Plus, Extended, W. B. Edition, Entertainer	1997-2005, 9999	20	
444	Uplander	Base, LS, LT, LT(AWD), LT Entertainer	2005-08,9999	20	
461	G-series van	Beauville, Chevy Van, Sport Van, G10-G30, Express, G1500/2500/3500, LT, LS	1957- <b>2014</b> , 9999	21,22,28,29	
466	P-series van		1965-99,9999	22,28,29	
470	Van derivative	Parcel Van, Hi-cube	1965- <b>2014</b> , 9999	28,29	
471	S-10/T-10 Pickup	4 x 4, Fleetside, Extended, Crew, LS, S-10, Xtreme, ZR2, ZR5, electric pickup*	1982-2005, 9999	30,32,40,42	
472	LUV	Imported pickup	1972-91,9999	30,32,40,42	
473	Colorado	Z71, Z85, Sport, LS, LT, Work, Value	2004-12,9999	30	
481	C, K, R, V-Series pickup/Silverado	C10-C30, K10-K30, R10-R30, V10-V30, Silverado: 1500 (C-K, HD), 2500 (C-K, HD), 3500 (CK), ST, LS, LT, Z71, Fleetside, Sportside, CrewCab, SS, Hybrid, LTZ, WT	1940- <b>2015</b> , 9999	31,32,39,40,42	

<b>MAKE:</b>	<b>Chevrolet (Cont.)</b>	<b>(20)</b>	<b>(CHEV)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS (Cont.)</b>				
482	Avalanche	1500/2500 Premium, North Face Edition, Z71, Z66, LS, LT, LTZ, Black Diamond	2002-13,9999	31
498	Other (light truck)		1940- <b>2015</b> , 9999	14-16,19-22, 28-32, 39,40,42, 45,48
499	Unknown (light truck)		1932- <b>2015</b> , 9999	14-16,19-22, 28-32,39,40,42, 45,48,49
<b>MOTOR HOME</b>				
850	Motor Home	Truck-based	1949- <b>2014</b> , 9999	65,73
<b>MEDIUM/HEAVY TRUCKS</b>				
870	Medium/Heavy Van-Based Vehicle	Express 3500/4500	1957- <b>2014</b> , 9999	55, 61-64
880	Medium/Heavy Pickup (pickup-style only – over 10,000 lbs)		1953- <b>2014</b> , 9999	67
881	Medium/Heavy – CBE	C50/60/65; M60/65; H70/80/90; J70/80/90; Bison 90; Kodiak (C4500) all other CBE	1955- <b>2014</b> , 9999	60-64,66, 71,72,78
882	Medium/Heavy – COE low entry	T60/65, all other COE low entry	1960- <b>2014</b> , 9999	60-64,66, 71,72,78
883	Medium/Heavy – COE high entry	Titan 90, all other COE high entry	1971-80,9999	60-64,66, 71,72,78
884	Medium/Heavy – Unknown engine location		1951- <b>2014</b> , 9999	60-64,66, 71,72,78
890	Medium/Heavy – COE entry position unknown		1965- <b>2014</b> , 9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)		1949- <b>2014</b> , 9999	60-64,66, 71,72,78
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)	S-60 series	1967- <b>2014</b> , 9999	50-52,58,59
988	Other (bus)		1965- <b>2014</b> , 9999	50-52,58,59
989	Unknown (bus)		1965- <b>2014</b> , 9999	50-52,58,59

<b>MAKE:</b>	<b>Chevrolet (Cont.)</b>	<b>(20)</b>	<b>(CHEV)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1934- <b>2015</b> , 9999	<b>92,93,97</b>
999	Unknown (CHEVROLET)		1933- <b>2015</b> , 9999	49,79,99

**\*\* Use code "989" (bus) if the frontal plane or the engine location is unknown.**

<b>MAKE:</b>	<b>Chrysler/Daimler Chrysler</b>	<b>(06)</b>	<b>(CHRY)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
009	Cordoba	Crown, 300, LS	1975-83,9999	02
010	New Yorker (thru 78)/ Newport/5 <sup>th</sup> Avenue/ Imperial (1979-83) (excludes all FWD)	Town and Country, Brougham, Custom, Royal, 300 (thru 1971) Frank Sinatra editions (FS), Royal Limo, Windsor Wagon/ Ambulance	1946-89,9999	01,02,04,06, 08,09,11,12
014	New Yorker/E-Class/ Imperial (1990-93)/ Fifth Avenue	FWD vehicles, Turbo, Salon	1980-93,9999	02,04,08,09
015	Laser	Turbo, XE, XT	1984-86,9999	03
016	LeBaron	Premium, Salon (RWD), Landau, LX, Town and Country cars and wagon, Medallion, FWD except GTS or GTC Sport Coupe	1977-94,9999	01-09
017	LeBaron GTS/GTC	GT, GTS-Turbo, GTC- Sport Coupe	1982-95,9999	01-09
018	200	Limited, LX, Touring, S, <b>Super S</b>	2011- <b>14,9999</b>	01,04,09
021	SRT Viper	Standard, GTS, <b>TA, GT3-R,</b> <b>GTS-R</b>	2013- <b>14,9999</b>	02
031	TC (Maserati Sport)	Turbo Convertible	1988-91,9999	01-03,09
035	Conquest	TSI, Turbo	1987-89,9999	03
041	Concorde	LX, Lxi, Limited	1993-2004, 9999	04
042	LHS	New Yorker (1994-on)	1994-97; 1999-2001, 9999	04
043	Sebring	JX, Jxi, LX, Lxi,GTC, Tsi, Limited, Plus, Platinum, Touring, Signature Series	1995-2011, 9999	01,02,04,08,09
044	Cirrus	LX, Lxi	1995-2000, 9999	04
050	Executive	Sedan and Limo	1983-87,9999	04,09,11,12

MAKE: Chrysler/Daimler Chrysler (Cont.) (06)				(CHRY)
Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES (Cont.)</b>				
051	300M/300/300C/300S	Special, Platinum, Touring, Limited, SRT, Signature Series, SRT8, LX, SRT, Heritage, Great American, Walter P. Chrysler, Glacier, Executive Series, Luxury, Motown Edition, John Varvatos Edition	1999-2014, 9999	04
052	PT Cruiser	Base, Touring, Limited, GT, Turbo, Dream Cruiser, Platinum, Series 4, Signature Series, Street Cruiser, Pacific Coast Highway, LX, Sunset Blvd.	2001-10,9999	01,06,09
053	Prowler (for 2002) (1997,1999-01 see Plymouth)	Roadster, Black Tie Edition	2002	01
054	Pacifica	Premium, Luxury, Touring, Signature Series, LX	2004-08,9999	06
055	Crossfire	Limited, SRT6, Standard	2004-08,9999	01,02,09
398	Other (automobile)	1946-2014, 9999	01-09,11,12	
399	Unknown (automobile)	1946-2014, 9999	01-09,11,12	
<b>LIGHT TRUCKS</b>				
421	Aspen	Limited, Signature, Hybrid	2007-09,9999	15
441	Town and Country	Minivan, SX, L, LX, Lxi, Ltd., SWB, LWB, AWD, FWD, eL, eX, Touring, Platinum, Signature Series, Limited, <b>30th Anniversary, S</b>	1990-2014, 9999	20
442	Voyager (2000 on; 1984-00 see Plymouth)	Base, Popular, Value, LX, eC	2000-03,9999	20
499	Unknown (light truck)	1990-2014, 9999	15,20,29	
999	Unknown (CHRYSLER)	1946-2014, 9999	49	

<b>MAKE:</b>	<b>Coda</b>	<b>(26)</b>
<b>Model</b>	<b>Codes</b>	<b>Includes</b>
<b>AUTOMOBILES</b>		
001	Coda	<b>2012-13,9999</b> 04,05,09
398	Other (automobile)	<b>2012-13,9999</b> 04,05,09
399	Unknown (automobile)	<b>2012-13,9999</b> 04,05,09
<b>MAKE:</b>	<b>Daewoo</b>	<b>(64)</b>
<b>Model</b>	<b>Codes</b>	<b>Includes</b>
<b>AUTOMOBILES</b>		
031	Lanos	S, SE, SX, Sport 9999
032	Nubira	SX, CDX, SE 9999
033	Leganza	SE, SX, CDX 9999
398	Other (automobile)	1999-2002, 9999 03, 04, 05, 06, 07,09
399	Unknown (automobile)	1999-2002, 9999 03-07,09
<b>MAKE:</b>	<b>Daihatsu</b>	<b>(60)</b>
<b>Model</b>	<b>Codes</b>	<b>Includes</b>
<b>AUTOMOBILES</b>		
031	Charade	1988-94,9999 03,04,09
<b>LIGHT TRUCKS</b>		
401	Rocky	1990-92,9999 14
999	Unknown (DAIHATSU)	1988-94,9999 03, 04,09,14

<b>MAKE:</b> Dodge		<b>(07)</b>	<b>(DODG)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
001	Dart (1960-76 only. For 2013 on; see model 029.)	170, 270, Custom, GT, Swinger, Demon, 340, 360, Special, Sport, Special Edition	1960-76,9999	01,02,04,06,08,09
002	Coronet/Magnum/Charger (thru 1978)	Brougham, Custom, Superbee, 500, Crestwood, Deluxe, XE, R/T, 440, SE, Police	1964-79,9999	01,02,04,06,08,09
003	Polara/Monaco/Royal Monaco	Custom, Special, Police, Taxi, Crestwood, Brougham	1964-78,9999	01,02,04,06,08,09
004	Viper	RT/10, GTS, ACR, SRT-10	1992-2010,9999	01,02,09
005	Challenger (1970-74 only; see model 028 for 2008 on)	R/T, T/A, Rallye	1970-74,9999	01,02,09
006	Aspen	Custom, Special Edition, Police, R/T, Sport	1976-80,9999	02,04,06,08,09
007	Diplomat	Medallion, S, Salon, SE	1977-89,9999	02,04,06,08,09
008	Omni/Charger (1983-87; for 2006 on see vehicle model 024)	024, DeTomaso, Miser, Charger 2.2, GLH, Custom, Shelby, GLHS, America, Expo, SE	1978-90,9999	03,05,07,09
009	Mirada		1980-83,9999	02
010	St Regis	Police, Taxi	1979-81,9999	04
011	Aries (K)	Custom, SE, LE	1981-89,9999	02,04,06,08,09
012	400	LS	1982-83,9999	01,02,04,08,09
013	Rampage (car-based pickup)	2.2, GT, Sport	1982-84,9999	10
014	600	ES, Turbo, SE	1983-88,9999	01,02,04,08,09
015	Daytona	Turbo Z, C/S Competition, Shelby Z/CSX, Pacifica, IROC R/T	1984-93,9999	03
016	Lancer	Pacifica, Turbo, ES, Shelby	1985-89,9999	02-09
017	Shadow	ES, Turbo, America	1987-94,9999	01-03,05,07,09
018	Dynasty		1988-93,9999	02,04,08,09
019	Spirit	ES, Shelby, R/T	1989-95,9999	01,02,04,08,09
020	Neon	Competition, Highline, SE, ES, ACR R/T, SRT-4, SXT	1995-2005,9999	02,04,08,09
021	Magnum	SE, SXT, R/T, SRT8	2005-08,9999	06
024	Charger (2006 on; see model 008 for 1983-87)	Daytona, SRT8, R/T, SE, SXT, Super Bee, 3.5L, Rallye, Plus, Max, Road and Track, Blacktop	2006-14,9999	04
025	Caliber	SE, SXT, R/T, SRT4, Sport, Heat, Mainstreet, Rush, Uptown, Express	2007-12,9999	05

<b>MAKE:</b>	<b>Dodge (Cont.)</b>	<b>(07)</b>	<b>(DODG)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
026	Avenger	SE, SXT, R/T, Heat, Express, Blacktop	2008- <b>14,9999</b>	04
027	Journey	SE, SXT, R/T, Heat, Hero, Uptown, Express, Crew, Mainstreet, Lux, American Value Package, Blacktop, AVP, <b>SXT Plus, Limited</b>	2009- <b>14,9999</b>	06
028	Challenger (2008 on; for 1970-74 see model 005)	SRT8 (392), SE, R/T (Plus/Classic) , Plum Crazy Edition, Classic, SXT, SXT Plus, Rallye Redline, Blacktop, <b>Shaker</b>	2008- <b>14,9999</b>	02
029	Dart (2013 on. See model 001 for 1960-1976 model years.)	Limited, Rallye, SE, SXT, Special Edition, Mopar '13, Aero, GT	2013- <b>14,9999</b>	04
<b>030</b>	<b>Barracuda</b>		<b>2015</b>	<b>02</b>
033	Challenger	all import	1978-83,9999	02
034	Colt (includes 2WD Vista)	GT, Custom, Carousel, Premier, Deluxe, E, DL, GTS, Turbo, RS	1974-94,9999	02-09
035	Conquest	Turbo	1984-89,9999	03
039	Stealth	RT, ES	1991-96,9999	02,03,09
040	Monaco		1990-92,9999	02,04,08,09
041	Intrepid	ES, R/T, S, SE, SXT	1993-2004, 9999	04
042	Avenger (see model 026 for 2008 on)	ES	1995-2000, 9999	02
043	Stratus	ES, SE, R/T, Plus, SXT	1995-2007, 9999	02,04,08,09
398	Other (automobile)		1946- <b>2015</b> , 9999	01-10,12
399	Unknown (automobile)		1946- <b>2015</b> , 9999	01-10,12
<b>LIGHT TRUCKS</b>				
401	RaiderSport	Sport	1986-94,9999	14
402	Durango (1998-2003 only; see model 422 for 2004 on)	Sport, R/T, SLT, SXT, Plus, Black Top	1998-2003, 9999	14
403	Nitro	SLT, SXT, R/T, SE, Heat, Detonator, Shock	2007-11,9999	14
421	Ramcharger		1974-93,9999	15
422	Durango (2004 on; see 402 for 1998-2003 models)	ST, SLT, Limited, SXT, Adventurer, Hybrid, Express, Crew, LUX, Citadel, R/T, Blacktop, <b>Plus</b>	2004- <b>14,9999</b>	15

<b>MAKE:</b>	<b>Dodge (Cont.)</b>	<b>(07)</b>	<b>(DODG)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS (Cont.)</b>				
441	Vista Van	4x4 (Only)	1984-91,9999	20
442	Caravan/Grand Caravan	Mini Ram Van, 112 & 19 WB, SE, ES, LE, Sport, EX, eC, eL, AWD, Sport, EPIC- elec* SXT, C/V, Special Edition, Cargo, Hero, American Value Package, R/T, Crew, Blacktop, AVP, <b>30th Anniversary</b>	1984- <b>2014</b> , 9999	20
<b>443</b>	<b>Ram C/V</b>	<b>Tradesman</b>	<b>2014</b>	<b>20</b>
461	B-Series Van/fRam Van/ Ram Wagon	Sportsman, Royal, Maxiwagon, Ram, B1500- B3500, Tradesman, Ram Maxivan (1500, 2500, 3500), Ram Wagon (1500, 2500, 3500) Conversion, Cargo Van (1500: van, non- maxi van, maxi van; 2500: non-maxi, maxi van; 3500: non-maxi), Dodge Wagon (1500, 2500, 3500)	1963-2003, 9999	21,28,40-42,48
462	Sprinter	Cargo, Passenger	2003-09,9999	21,28
<b>463</b>	<b>Ram Promaster</b>	<b>Cargo, Chassis, Cutaway</b>	<b>2014</b>	<b>21,28</b>
470	Van Derivative	Kary Van, Parcel Van	1971- <b>2014</b> , 9999	28,29
471	D50, Colt pickup, Ram 50/Ram 100		1979-93,9999	30,32
472	Dakota	R/T, Limited Edition, Quad Cab, Club Cab, Plus, SLT, ST, SXT, Sport, Laramie, TRX, SE, Big Horn, Lone Star, TRX4	1987-2012, 9999	30-33,39,40
481	D, W-Series pickup	Custom, Royal, Ram, Miser, D100-D350, W100-W350	1955-93,9999	31,32,40,42

<b>MAKE:</b>	<b>Dodge (Cont.)</b>	<b>(07)</b>	<b>(DODG)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS (Cont.)</b>				
482	Ram Pickup	1500 (Limited, Longhorn, Laramie, Sport , Big Horn, SLT, Express, ST, Tradesman, Outdoorsman) 2500 (Limited, Laramie, Longhorn, Power Wagon, Big Horn, ST, SLT, Outdoorsman), 3500 (Limited, Laramie, Longhorn, Power Wagon, Big Horn, ST, SLT, Outdoorsman), Quad Cab, SLT, SLT+, ST, SRT-10, Laramie, Rumble Bee, Power Wagon, Daytona, TRX Off-Road, Sport	1994- <b>2014</b> , 9999	31,32,40,42
498	Other (light truck)		1979- <b>2014</b> , 9999	14,15,19,20-22, 28-33,39-42,45, 48
499	Unknown (light truck)		1949- <b>2014</b> , 9999	14,15,19,20-22, 28-33,39-42,45, 48,49
<b>MOTOR HOME</b>				
850	Motor Home	Truck-based	1952- <b>2014</b> , 9999	65,73
<b>MEDIUM/HEAVY TRUCKS</b>				
870	Medium/Heavy Van-Based Vehicle	Sprinter, <b>Promaster</b>	1971-2009, <b>2014</b> ,9999	55,61-64
880	Medium/Heavy Pickup (pickup-style only – over 10,000 lbs)		1953- <b>2014</b> , 9999	67
881	Medium/Heavy – CBE		1966- <b>2014</b> , 9999	60-64,66, 71,72,78
882	Medium/Heavy – COE low entry		1967-77,9999	60-64,66, 71,72,78
883	Medium/Heavy – COE high entry		1967-77,9999	60-64,66, 71,72,78
884	Medium/Heavy – Unknown engine Location		1962- <b>2014</b> , 9999	60-64,66, 71,72,78

<b>MAKE:</b>	<b>Dodge (Cont.)</b>	<b>(07)</b>	<b>(DODG)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>MEDIUM/HEAVY TRUCKS (Cont.)</b>				
890	Medium/Heavy – COE entry position unknown		1965-77,9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)		1930- <b>2014</b> , 9999	60-64,66, 71,72,78
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)	(not van based)	1966-77,9999	50-52, 58, 59
988	Other (bus)		1965-77,9999	50-52, 58, 59
989	Unknown (bus)		1965-77,9999	50-52, 58, 59
**Use code "989"(bus) if the frontal plane or the engine location is unknown.				
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1965- <b>2015</b> , 9999	<b>92,93,97</b>
999	Unknown (DODGE)		1952- <b>2015</b> , 9999	49,79,99

<b>MAKE:</b>	<b>Eagle*</b>	<b>(10)</b>	<b>(EGIL)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
034	Summit (excludes wagon)	DL, LX, ES, ESi	1989-96,9999	02-04,08,09
037	Talon	FWD, Tsi, Tsi-FWD, Esi	1990-98,9999	02,03,09
040	Premier	LX, ES, ES Limited	1988-92,9999	02,04,08,09
041	Vision	Esi, Tsi	1993-97,9999	04
044	Medallion	DL, LX	1988-89,9999	04,06,09
045	Summit Wagon	FWD, AWD, DX, LX (Mitsubishi)	1992-96,9999	06
398	Other (automobile)		1988-98,9999	02-04,06,08,09
399	Unknown (automobile)		1988-98,9999	02-04,06,08,09

\*Note: Eagle model listed under American Motors.

<b>MAKE:</b>	<b>Fiat</b>	<b>(36)</b>	<b>(FIAT)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	124 (Coupe/Sedan)	Sport	1967-75,9999	01,02,04,06, 08,09
032	124 Spider/Racer	Spider 2000/1500	1968-83,9999	01,02,09
033	Brava/131		1975-82,9999	02,04,06,08,09
034	850 (Coupe/Spider)		1967-73,9999	01,02,09
035	128		1972-79,9999	01,02,04,06, 08,09
036	X-1/9		1975-83,9999	01,02,09

<b>MAKE:</b>	<b>Fiat (Cont.)</b>	<b>(36)</b>	<b>(FIAT)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
037	Strada		1979-83,9999	03,05,07,09
038	500/500c	Abarth, Pop, Sport, Lounge, <i>e, Cabrio, Turbo, Cattiva, Gucci</i>	2012- <b>14</b> ,9999	02,03, 09
398	Other (automobile)	600, 1100	1967-83, 9999	01-09
399	Unknown (automobile)		1967-83; 2011- <b>14</b> , 9999	01-09
<b>LIGHT TRUCKS</b>				
401	500L	<i>Pop, Easy, Trekking, Lounge</i>	<b>2014</b>	<b>14</b>
499	<i>Unknown (light truck)</i>		<b>2014</b>	<b>14</b>
<b>MEDIUM/HEAVY TRUCKS</b>				
882	Medium/Heavy – COE low entry		1967-83,9999	60-64,66, 71,72,78
883	Medium/Heavy – COE high entry		1967-83,9999	60-64,66, 71,72,78
890	Medium/Heavy – COE entry position unknown		1967-83,9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)		1967-83,9999	60-64,66, 71,72,78
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1967-83,9999	<b>92,93,97</b>
999	Unknown (FIAT)		1967-83; 2011- <b>14</b> , 9999	99

<b>MAKE:</b>	<b>Ford</b>	<b>(12)</b>	<b>(FORD)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
001	Falcon	FuturaSprint, GT, Futura	1960-70,9999	02,04,06,08,09
002	Fairlane	Torino (1968-70), 500, Brougham	1955-70,9999	01,02,04,06, 08,09
003	Mustang/Mustang II	Mach(I), Boss (302), Grande, Cobra (SVT), Ghia, SVO, GT (Premium, Base, Cal Spec. Pkg.), LX, Shelby (GT500, GT500KR), Deluxe, Premium, Bullitt, V6 (Base, Premium, Pony)	1964- <b>2014</b> , 9999	01-03,09

<b>MAKE:</b> <b>Ford (Cont.)</b>		<b>(12)</b>		<b>(FORD)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>	
<b>AUTOMOBILES (Cont.)</b>					
004	Thunderbird (all sizes)	Landau, Heritage, Turbo coupe, Elan, Fila, Sport, LX, SC, Deluxe, Premium, Pacific Coast Edition, 50 <sup>th</sup> Anniversary Edition	1955-98; 2002-05,9999	01,02,04,08,09	
005	LTD II	S, Squire, Brougham	1977-79,9999	02,04,06,08,09	
006	LTD/Custom/Galaxy (all sizes)	XL, Landau, Ranch Wagon, Country Squire, S, 500, Brougham, XL, GT	1963-86,9999	01,02,04,06,08,09	
007	Ranchero	Falcon/Fairlane based Torino/LTD II based	1960-79,9999	10	
008	Maverick	Grabber	1969-78,9999	02,04,08,09	
009	Pinto	Pony, MPG, ESS	1971-80,9999	02,03,06,09	
010	Torino/Gran Torino/Elite	GT, Cobra, Sport, Squire, Brougham	1971-76,9999	01,02,04,06,08,09	
011	Granada	ESS, Ghia	1975-82,9999	02,04,06,08,09	
012	Fairmont	Futura, Sport Coupe	1978-83,9999	02,04,06,08,09	
013	Escort/EXP/ZX2	L, GL, GLX, SS, GT, LX, LXE, SE, ZX2, Deluxe, Premium, Standard	1981-2003, 9999	02-09	
015	Tempo	L, GL, GLX, Sport, 4X4	1984-94,9999	02,04,08,09	
016	Crown Victoria	LX, LTD Crown Victoria, LX Sport	1981-2011, 9999	02,04,06,08,09	
017	Taurus/Taurus X	MT-5, L, GL, LX, SHO, G, SE, SVG, SES, SEL, Limited, Eddie Bauer, Police Interceptor	1986- <b>2014</b> , 9999	04,06,09	
018	Probe	GL, LX, GT	1988-97,9999	03	
021	Five Hundred	SE, SEL, Limited	2005-07,9999	04	
022	Freestyle	SE, SEL, Limited	2005-07,9999	06	
023	Fusion	I4 S/SE/SEL, V6 SE/SEL, Sport, Hybrid, Titanium, Energi	2006- <b>14</b> ,9999	04	
024	Edge	SE, SEL, SEL Plus, Limited, Sport	2007- <b>14</b> ,9999	06	
025	Flex	SE, SEL, Limited, Titanium	2009- <b>14</b> ,9999	06	
026	City		2000-02, 9999	02, 04, 09, 94	
027	C-Max	Hybrid, Energi. SE, SEL	2013- <b>14,9999</b>	05	
031	English Ford	Cortina, Anglia, Zephyr/ Zodiac Mark III	1946-70,9999	02,04,06,08,09	
032	Fiesta	Sport, Ghia, S, SE, SES, SEL, Titanium, ST	1978-80, 2011- <b>14</b> , 9999	03-05,09	
033	Festiva	L, GL	1988-93,9999	03	
034	Laser		1993-94,9999	02,03,09	

<b>MAKE:</b>	<b>Ford (Cont.)</b>	<b>(12)</b>	<b>(FORD)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
035	Contour	Sport, LX, SE, SVT	1994-2001, 9999	04
036	Aspire		1994-97,9999	03,05,07,09
037	Focus	ZX3, LX, SE, ZTS, SVT, ZX4, ZX4, ST, ZX5, ZXW, S, SES, SEL, SE, Titanium, Electric, ST	2000- <b>14</b> ,9999	02-06,09
038	GT		2004-08,9999	01
398	Other (automobile)	Deluxe, Ford Six, Mainline, Crestline, Futura, Galaxie, Model A	1923- <b>2014</b> , 9999	01-11, 94
399	Unknown (automobile)		1923- <b>2014</b> , 9999	01-11, 94
<b>LIGHT TRUCKS</b>				
401	Bronco (thru 1977)/ Bronco II/Explorer/ Explorer Sport	Eddie Bauer, XL, XLT, Explorer (1990 on) XLS, Explorer Sport (Value, Choice Premium), NBX, Adrenalin, Ironman, Police Interceptor, Base, Limited	1966-77; 1983- <b>2014</b> , 9999	14
402	Escape	XLS (Value, Sport, V6 Choice/Premium), XLT (Choice, Premium, Sport), Hybrid (Base, Limited), No Boundaries, Limited, S, SE, SEL, Titanium	2001- <b>14</b> ,9999	14
421	Bronco-full-size (1978-on)	Eddie Bauer, Custom, XL, XLT	1978-96,9999	15
422	Expedition	EL, XLS, XLT (4x4,4x2), Eddie Bauer (4x4,4x2), NBX, Sport, NBX, Limited, King Ranch, Funk Master Flex Edition, XL	1996- <b>2014</b> , 9999	15
423	Excursion	XLT, Limited (LTD), Ultimate, Premium, XLS, Eddie Bauer	2000-05,9999	16
441	Aerostar	XLT, Cargo Van	1985-97,9999	20
442	Windstar	GL, LX, XLT, Splash, Cargo Limited, SE, SEL	1995-2003, 9999	20
443	Freestar	Base, LX, SE, S, SEL, SES, Limited	2004-07,9999	20
444	Transit Connect	XL, XLT, Premium, EV	2010- <b>15</b> , 9999	20

<b>MAKE:</b>	<b>Ford (Cont.)</b>	<b>(12)</b>	<b>(FORD)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS (Cont.)</b>				
461	E-Series Van/Econoline	Clubwagon (XL, XLT), Chateau, (XL,XLT), Parcel Van, Econoline Wagon E-150 (XL/XLT/Premium); E-350 XL/XLT/ Extended), E-250 (EXT)	1960- <b>2014</b> , 9999	21,22,28,29
462	Transit		<b>2014-15,9999</b>	21, 28,29
470	Van Derivative		1960- <b>2014</b> , 9999	28,29
471	Ranger	Supercab, 4x4, STX, SL, SLT, Splash, XL (Standard/ Super Cab), XLT, Tremor (Standard/Super Cab/Off-Road/FX4), Edge (Regular/ Super Cab), EV* (electric), Level II, Sport	1982-2012, 9999	30-32,40,42
473	Explorer Sport Trac	2WD/4WD, Value, Choice, Premium, XLS, XLT, Adrenalin, Limited	2001-11,9999	30
481	F-Series pickup	F100, F150-F350, (XL, XLT, Crew Cab, Super Cab, Regular Cab, Lariat, Super Duty, Flareside, Styleside, SVT Lightning, Fireside, Harley-Davidson Edition, King Ranch, SuperCrew, STX, Heritage Edition, Sport Edition, FX4, FX2), F450 (10,000 GVWR and under) (see model 880 for F450 >10,000 GVWR), Amarillo Package, Platinum, Cabala's, STX, SVT Raptor, Limited	1940- <b>2015</b> , 9999	31,32,39,40,42
498	Other (light truck)		1972- <b>2015</b> , 9999	14-16,20,21 28-32,40-42, 45, 48
499	Unknown (light truck)		1928- <b>2015</b> , 9999	14-16,19-22, 28-32,39-42,45, 48-49
<b>MOTOR HOME</b>				
850	Motor Home	Truck-based, F-550	1956- <b>2014</b> , 9999	65,73

<b>MAKE:</b>	<b>Ford (Cont.)</b>	<b>(12)</b>	<b>(FORD)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>MEDIUM/HEAVY TRUCKS</b>				
870	Medium/Heavy Van-Based Vehicle	Econoline E350, E450, Transit	1956- <b>2015</b> , 9999	55, 61-64
880	Medium/Heavy Pickup (pickup-style only – over 10,000 lbs.)	Super Duty 350, F450/550, Lariat, XL, XLT, King Ranch	1953- <b>2014</b> , 9999	67
881	Medium/Heavy – CBE	F-5 thru F-8, L-series, FT-series, Super Duty F-Series: 450/550/650/750/800 (does not include pickup style)	1953- <b>2014</b> , 9999	60-64,66, 71,72,78
882	Medium/Heavy – COE low entry	C/CT series, LCF	1964- <b>2014</b> , 9999	60-64,66, 71,72,78
883	Medium/Heavy – COE high entry	C/CLT series, LCF	1967- <b>2014</b> , 9999	60-64,66, 71,72,78
884	Medium/Heavy – Unknown engine location		1956- <b>2014</b> , 9999	60-64,66, 71,72,78
890	Medium/Heavy – COE entry position unknown		1956- <b>2014</b> , 9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)		1965- <b>2014</b> , 9999	60-64,66, 71,72,78
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)	B-series (not van based), F Series	1964- <b>2014</b> , 9999	50,52, 58,59
988	Other (bus)		1940- <b>2014</b> , 9999	50,52, 58,59
989	Unknown (bus)		1940- <b>2014</b> , 9999	50, 52, 58, 59
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1940- <b>2015</b> , 9999	<b>92,93,97</b>
999	Unknown (FORD)		1923- <b>2015</b> , 9999	49,79,99

\*\* Use code "989" (bus) if the frontal plane or the engine location is unknown.

<b>MAKE:</b>	<b>GMC</b>	<b>(23)</b>	<b>(GMC )</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
007	Caballero		1965-87,9999	10
008	Acadia (2007-2012 only. For 2013 on see model 423.)	SLE, SLT, Denali, SL	2007-12,9999	06
399	Unknown (automobile)		1965-2012, 9999	06,10

<b>MAKE:</b>	<b>GMC (Cont.)</b>	<b>(23)</b>	<b>(GMC )</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS</b>				
401	Jimmy/Typhoon/Envoy	S-15 based, (100.5 WB), T15, SLE, SL, SLS, SLT, XL, XUV, Denali	1983-2009, 9999	14
402	Terrain	SLE, SLT, Denali	2010- <b>14</b> , 9999	14
421	Full-size Jimmy/Yukon	Fullsize pickup based, K5, K18, SL, SLE, SLT, SLS, Diamond Edition, Yukon Denali, Denali, Hybrid	1969- <b>2015</b> , 9999	15
422	Suburban/Yukon XL (2004 on; see 431 for 1950- 2003)	Yukon XL (Denali -1500-2500), SLE, SLT, Hybrid	2004- <b>14</b> , 9999	15
423	Acadia (2013 on. For 2007-2012 see model 008.)	FWD/AWD, Denali, SLE, SLT	2013- <b>14,9999</b>	15
431	Suburban/Yukon XL (1950-2003 only; see 422 for 2004 on)	all models, SLE, C16, C26, K16, K26, C1500-2500, K1500-2500, Yukon XL (Denali -1500-2500)	1950-2003, 9999	16
441	Safari (Minivan)	SLT, SLX, SLE, M15, L15, SL	1985-2005, 9999	20
461	G-series van/Savana	Rally Van, Vandura, G15-G35, Savana (G1500-3500) SLT, Extended, SLE, LS, LT, Uplifter, WT, <b>Cargo</b>	1965- <b>2014</b> , 9999	21,22,28,29
466	P-series van		1965- <b>2014</b> , 9999	22,28,29
470	Van derivative	Hicube, Magna Van, Value Van, Parcel Van	1965- <b>2014</b> , 9999	28,29
471	S15/T15/Sonoma	4 X 4, Syclone, SL, SLS, SLE, Extended/Crew Cab, ZR2, ZRX, ZR5	1982-2004, 9999	30,32,40,42
472	Canyon	Base, SLE, SL, SLT, Z71, Z85, Work Truck	2004- <b>14</b> , 9999	30
481	C, K, R, V-series pickup/ Sierra	Excluding Yukon, C15-C35, K15-K35, R15-R35, V15-V35, Sierra, C/K1500, 2500, 3500, Sportside, X81, SL, Special, SLE, Classic, Extended Cab, Denali, 1500HD/2500HD, C3, Hybrid, SLT, Work Truck, 5SA	1940- <b>2015</b> , 9999	31,32,39,40,42

<b>MAKE:</b>	<b>GMC (Cont.)</b>	<b>(23)</b>	<b>(GMC )</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS (Cont.)</b>				
498	Other (light truck)		1930- <b>2015</b> , 9999	14-16,20-22, 28,29, 40,42, 45, 48
499	Unknown (light truck)		1951- <b>2015</b> , 9999	14-16,19-22, 28,29,39,40, 42,45,48,49
<b>MOTOR HOME</b>				
850	Motor Home		1950- <b>2014</b> , 9999	65,73
<b>MEDIUM/HEAVY TRUCKS</b>				
870	Medium/Heavy Van-Based Vehicle	Savana 3500, 4500	1965- <b>2015</b> , 9999	55,61-64
880	Medium/Heavy Pickup (pickup-style only – over 10,000 lbs)		1953- <b>2014</b> , 9999	67
881	Medium/Heavy – CBE	W5000/6000/7000 series, Kodiak Brigadier/General models, Top Kick	1967- <b>2014</b> , 9999	60-64,66, 71,72,78
882	Medium/Heavy – COE low entry	W6000/W7000, all other COE, low entry, W/WT Series	1968- <b>2014</b> , 9999	60-64,66, 71,72,78
883	Medium/Heavy – COE high entry	Astro 95, all other COE, high entry, T Series	1969- <b>2014</b> , 9999	60-64,66, 71,72,78
884	Medium/Heavy – Unknown engine location		1948- <b>2014</b> , 9999	60-64,66, 71,72,78
890	Medium/Heavy – COE entry position unknown		1967- <b>2014</b> , 9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)		1930- <b>2014</b> , 9999	60-64,66, 71,72,78
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)	B6000	1950- <b>2014</b> , 9999	50-52,58,59
988	Other (bus)		1965- <b>2014</b> , 9999	50,58,59
989	Unknown (bus)		1950- <b>2014</b> , 9999	50-52,58,59
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1965- <b>2015</b> , 9999	<b>92,93,97</b>
999	Unknown (GMC)		1940- <b>2015</b> , 9999	49,79,99

\*\* Use code "989"(bus) if the frontal plane or the engine location is unknown.

<b>MAKE:</b>	<b>Grumman/Grumman-Olson</b>	<b>(25)</b>	<b>(GRUM)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS</b>				
401	LLV	Postal vehicle	1987-2004, 9999	22
441	Step-in van	Multi-stop, step van	1987-2004, 9999	22
498	Other (light truck)		1987-2004, 9999	22
499	Unknown (light truck)		1987-2004, 9999	22
<b>MEDIUM/HEAVY TRUCKS</b>				
881	Medium/Heavy – CBE		1987-2004, 9999	60-64,66, 71,72,78
882	Medium/Heavy - COE low entry		1987-2004, 9999	60-64,66, 71,72,78
883	Medium/Heavy - COE high entry		1987-2004, 9999	60-64,66, 71,72,78
884	Medium/Heavy - engine location unknown		1987-2004, 9999	60-64,66, 71,72,78
890	Medium/Heavy - entry position unknown		1987-2004, 9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)		1987-2004, 9999	60-64,66, 71,72,78
<b>BUSES</b>				
983	Bus: Flat front, rear engine	Transit	1950-2004, 9999	50-52,58,59
988	Other (bus)		1950-2004, 9999	50-52,58,59
989	Unknown (bus)		1950-2004, 9999	50-52,58,59
999	Unknown (GRUMMAN/GRUMMAN-OLSON)		1950-2004, 9999	79,99

\*\* Use code "989"(bus) if the frontal plane or the engine location is unknown.

<b>MAKE:</b>	<b>Honda (Acura: See "54")</b>	<b>(37)</b>	<b>(HOND)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	Civic/CRX, del Sol	1300, 1500, CVCC, DX, EX, VX, CX, FE, CRX, CRX Si, S, Si, HF, LX, 4WD Wagon, GX (NGV), HX, VTEC, VP, Si, Civic, Hybrid, Special Edition, EX-L, DX-VP, LX-S, Natural Gas	1973- <b>2014</b> , 9999	02-09

MAKE: Honda (Acura: See "54") (Cont.)(37)				(HOND)
Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILE (Cont.)</b>				
032	Accord	LX (V-6, ULEV), LXI, DX, CVCC, SE-I, LX-I, V-6, SJE, SME, SMH, SMK, EX (Wagon, ULEV, V-6), SE (ULEV), Special Edition, Hybrid, Value Package, LX-S, LX-P, EX-L, Crosstour (EX, EX-L, <b>EX(V6), EX-L (V6)</b> ), Premium, Plug-In Hybrid, Sport, Hybrid ( <b>EX-L, Touring</b> ), <b>Touring</b>	1976- <b>2014</b> , 9999	02-09
033	Prelude	S, Si, VTEC, SNF, SH, SE	1979-2001, 9999	02
034	600	Coupe, Sedan	1968-72, 9999	02
035	S2000	Roadster, CR	2000-09, 9999	01
036	EV Plus*	*Electric vehicle (EV+)	1997-2000, 9999	03
037	Insight	*(Gasoline-Electric), MT/CVT, LX, EX	2000-06, 2010- <b>14</b> , 9999	03,05,09
038	FCX	Hydrogen Vehicle, Clarity	2004- <b>14</b> , 9999	03-05,09
039	Fit	Base, DX, LX, Sport, EV	2006- <b>14</b> , 9999	05
041	CR-Z	EX, Hybrid, Sport	2010- <b>14</b> , 9999	03
398	Other (automobile)		1968- <b>2014</b> , 9999	01-09
399	Unknown (automobile)		1968- <b>2014</b> , 9999	01-09
<b>LIGHT TRUCKS</b>				
401	Passport	LX, EX, DX, EX-L	1994-2002, 9999	14
402	CR-V	LX, EX, Special Edition (SE), SC, EX-L	1997- <b>2014</b> , 9999	14
403	Element	DX, EX, EX-P, LX, SC, Dog Friendly	2003-11, 9999	14
421	Pilot	EX, EX-L, LX, SE, Value Package, Touring	2003- <b>14</b> , 9999	15
441	Odyssey	LX, EX, EX-L (Res, NAVI), Touring, Touring Elite	1995- <b>2014</b> , 9999	20
471	Ridgeline	RT, RTL, RTS, RTX, Sport	2006- <b>14</b> , 9999	30
499	Unknown (light truck)		1994- <b>2014</b> , 9999	14,15,19,20,30, 49

MAKE: Honda (Acura: See "54") (Cont.)(37)			(HOND)	
Model	Codes	Includes	Model Years	Body Types
<b>MOTORCYCLES (Cont.)</b>				
701	0-50 cc		1978- <b>2014</b> , 9999	80, 81, 83, 88, 89
702	51-124 cc		1965- <b>2014</b> , 9999	80, 81, 83, 88, 89
703	125-349 cc		1965- <b>2014</b> , 9999	80, 83, 88, 89
704	350-449 cc		1965- <b>2014</b> , 9999	80, 83, 88, 89
705	450-749 cc		1970- <b>2014</b> , 9999	80, 83, 88, 89
706	750 cc or greater		1970- <b>2014</b> , 9999	80, 82, 83, 88, 89
709	Unknown cc		1965- <b>2014</b> , 9999	80, 81, 83, 88, 89
<b>ALL TERRAIN VEHICLES</b>				
732	51-124cc	includes all ATVs/ATCs/ TRXs designed solely for off-road use and have 3 or 4 wheels.	1972- <b>2014</b> , 9999	90
733	125-349cc		1972- <b>2014</b> , 9999	90
734	350cc or greater		1996- <b>2014</b> , 9999	90
739	Unknown cc		1972- <b>2014</b> , 9999	90
<b>OTHER VEHICLE</b>				
998	Other (vehicle)	Go Carts	1968- <b>2014</b> , 9999	95, 97*
* Refer to Body Type attribute 97 (Other Vehicle Type) for remarks regarding side-by-side ATVs				
999	Unknown (HONDA)		1965- <b>2014</b> , 9999	49, 99

MAKE: Hyundai			(55)	(HYUN)
031	Pony	Pony Excel (Foreign)	1979-88, 9999	
032	Excel	GL, GLS, GS	1984-94, 9999	
033	Sonata	GL, GLS, LX, SE, Limited, Hybrid, 2.0T	1989- <b>2014</b> , 9999	
034	Scoupe	LS, Turbo	1991-95, 9999	
035	Elantra	GLS, GL, GT, Limited, SE, Touring (GLS, SE), GS	1992- <b>2014</b> , 9999	
036	Accent	L, GL, GS, Gsi, GT, GLS, SE, Blue	1995- <b>2014</b> , 9999	
037	Tiburon	FX, GT, GS, SE, Limited	1997-2008, 9999	

<b>MAKE:</b>	<b>Hyundai (Cont.)</b>	<b>(55)</b>	<b>(HYUN)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
038	XG300(2001)/ XG350(2002 on)	L	2001-05,9999	04
039	Azera	SE, Limited, GLS	2006-14,9999	04
040	Equus	Signature, Ultimate	2011-14,9999	04
041	Genesis	3.8, 4.6, 2.0T, R-Spec, Grand Touring, Premium, Track, 5.0 R-Spec	2009-14,9999	02,04,09
042	Veloster	Base, Turbo, Re-Mix	2012-14,9999	03
398	Other (automobile)		1984-2014, 9999	02-09
399	Unknown (automobile)		1984-2014, 9999	02-09
<b>LIGHT TRUCKS</b>				
401	Santa Fe	GL, GLS, LX, Limited, SE, Sport, 2.0T	2001-14,9999	14
402	Tucson	GL, GLS, LX, Limited, SE	2005-14,9999	14
403	Veracruz (2007 only)	GLS, Limited, SE	2007	14
421	Veracruz (2008 on; see 403 for 2007 only)	GLS, Limited, SE	2008-12,9999	15
441	Entourage	GLS, Limited, SE	2007-09,9999	20
499	Unknown (light truck)		2001-14,9999	14,15, 19,20
999	Unknown (HYUNDAI)		1979-2014, 9999	49, 99

<b>MAKE:</b>	<b>Imperial</b>	<b>(08)</b>	<b>(CHRY)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
010	Imperial	LeBaron, Mark Cross, Crown Imperial	1954-75,9999	01,02,04,08,09
398	Other (automobile)		1965-75,9999	01-09
399	Unknown (automobile)		1965-75,9999	01-09

<b>MAKE:</b>	<b>Infiniti</b>	<b>(58)</b>	<b>(INFI)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	M30		1990-92,9999	01,02,09
032	Q45	Standard Touring, Q45t, Luxury , Sport, Premium	1990-2006, 9999	04

<b>MAKE:</b>	<b>Infiniti (Cont.)</b>	<b>(58)</b>	<b>(INFI)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
033	G20	G20t, Touring, Standard, Luxury	1991-96; 1999-2002, 9999	04
034	J30		1993-97, 9999	04
035	I30	Standard, Touring, Luxury	1996-2001, 9999	04
036	I35	Touring, Luxury	2002-04, 9999	04
037	G25/G35/G37	x, 6MT, Journey, Sport, Special Edition, IPL	2003- <b>13</b> , 9999	01,02,04,09
038	M35/M37/M45/M56	Sport, x, Hybrid	2003- <b>13</b> , 9999	04
039	FX35/FX37/FX45/FX50		2003- <b>13</b> , 9999	06
040	EX35	Journey	2008- <b>13</b> , 9999	06
<b>041</b>	<b>Q50</b>	<b>Base (3.7 Premium/AWD/Hybrid) S (3.7 Premium/AWD/Hybrid)</b>	<b>2014</b>	<b>04</b>
<b>042</b>	<b>Q60</b>	<b>Journey, AWD, 6MT, IPL (Base and 6MT), S</b>	<b>2014</b>	<b>01, 02, 09</b>
<b>043</b>	<b>Q70</b>		<b>2014</b>	<b>04</b>
<b>044</b>	<b>QX50</b>	<b>Base, AWD, Journey</b>	<b>2014</b>	<b>06</b>
398	Other (automobile)		1990- <b>2014</b> , 9999	01.02,04,06, 08.09
399	Unknown (automobile)		1990- <b>2014</b> , 9999	01.02,04,06, 08,09
<b>LIGHT TRUCKS</b>				
401	QX4	Luxury	1997-2003, 9999	14
402	JX35	Luxury, AWD	<b>2013</b>	14
<b>403</b>	<b>QX60</b>	<b>3.5, AWD, Hybrid</b>	<b>2014</b>	<b>14</b>
<b>404</b>	<b>QX70</b>	<b>3.7, 5.0, AWD</b>	<b>2014</b>	<b>14</b>
421	QX56		2004- <b>13</b> , 9999	15
<b>422</b>	<b>QX80</b>	<b>Base, AWD</b>	<b>2014</b>	<b>15</b>
499	Unknown (light truck)		1997- <b>2014</b> , 9999	14,15, <b>19</b>
999	Unknown (INFINITI)		1990- <b>2014</b> , 9999	49, 99

<b>MAKE:</b>	<b>Isuzu</b>	<b>(38)</b>	<b>(ISU )</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	I-Mark	S, RS, Turbo, DOHC	1981-90,9999	02-04,08,09
032	Impulse	Turbo, RS	1983-92,9999	02,03,09
033	Stylus		1991-94,9999	04
398	Other (automobile)		1981-94,9999	02-04,08,09
399	Unknown (automobile)		1981-94,9999	02-04,08,09
<b>LIGHT TRUCKS</b>				
401	Trooper/Trooper II	Deluxe, LS, S, LTD	1984-2002, 9999	14
402	Rodeo/ Rodeo Sport	S, LS, LSE	1991-2004, 9999	14
403	Amigo		1989-94; 1998-2000, 9999	14
404	VehiCROSS	VXO	1999-2001, 9999	14
405	Axiom	XS	2002-04,9999	14
421	Ascender	LS, S, Limited, Luxury	2003-08,9999	15
441	Oasis	S, LS	1996-99,9999	20
471	P'up (pickup)	4 X 4	1976-95,9999	30,32
472	Hombre	S, XS, XS Space Cab	1996-2000, 9999	30,32,40,42
473	i-280/i-290	S, LS, Luxury	2006-2008, 9999	30
474	i-350/i-370	LS, Limited, S	2006-2008, 9999	30
498	Other (light truck)		1981-2008, 9999	14,15, 20,30, 32,40,42
499	Unknown (light truck)		1981-2008, 9999	14,15,19,20,30, 32,39,40,42, 48,49
<b>MEDIUM/HEAVY TRUCKS</b>				
881	Medium/Heavy – CBE		1981-2004, 9999	60-64,66, 71,72,78
882	Medium/Heavy – COE low entry	NOR, NPR,NQR, N Series	1981- <b>2014</b> , 9999	60-64,66, 71,72,78
883	Medium/Heavy – COE, high entry	FRR, FRRI, FSR, FTR, FVR, F Series	1981- <b>2014</b> , 9999	60-64,66, 71,72,78
884	Medium/Heavy – Unknown engine location		1981- <b>2014</b> , 9999	60-64,66, 71,72,78
890	Medium/Heavy – COE entry position unknown		1981- <b>2014</b> , 9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)		1981- <b>2014</b> , 9999	60-64,66, 71,72,78,97

MAKE: Isuzu (Cont.)		(38)	(ISU )	
Model	Codes	Includes	Model Years	Body Types
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1981- <b>2014</b> , 9999	50-52,58,59
982	Bus: Front engine, Flat front		1981- <b>2014</b> , 9999	50-52,58,59
983	Bus: Rear engine Flat front		1981- <b>2014</b> , 9999	50-52,58,59
988	Other (bus)		1981- <b>2014</b> , 9999	50-52,58,59
989	Unknown (bus)		1981- <b>2014</b> , 9999	50-52,58, 59
999	Unknown (ISUZU)		1981- <b>2014</b> , 9999	49,79,99

\*\* Use code "989" (bus) if the frontal plane or the engine location is unknown.

MAKE: Jaguar		(39)	(JAGU)	
Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES</b>				
031	XJ-S, XK8 Coupe	S, SC, GT, H.E.	1976-2008, 9999	01,02,09
032	XJ/XJL/XJ6/12/XJR/XJ8/ XJ8L Sedan/Coupe	Mk II, Mk X, XJ,3.85, 3.8, 340/420 Sedan; XJ8(LWB, L,Vanden Plas, Sport); XJ6(L), C, L, Vanden Plas, III, GT, Super 8, Limited, Portfolio, Supersport, Supercharged, Ultimate, <b>SWB</b>	1949- <b>2014</b> , 9999	02,04,08,09
033	XK-E	V12, Roadster, 120,140, 150, 2+2	1946-74,9999	01-03,09
034	S-Type	3.0, 4.0, 4.2, Base, Sport, L, R, VDP Edition	2000-08,9999	04
035	XKR/XK	Victory Edition, Portfolio, 175 Limited Edition, Black Pack, XKR-S, Touring, <b>GT</b>	2000- <b>14</b> ,9999	01-03,09
036	X-Type	2.5, 3.0, Sport, VDP Edition	2002-08,9999	04,06,09
037	XF/XF-R	4.2 Luxury, S, Premium Luxury, Supercharged, 3.0, <b>2.0T</b>	2008- <b>14</b> ,9999	04
038	F-Type	S, V8	<b>2014</b>	01
398	Other (automobile)		1949- <b>2014</b> , 9999	01-04,06,08,09
399	Unknown (automobile)		1949- <b>2014</b> , 9999	01-04,06,08,09

<b>MAKE:</b>	<b>Jeep* (Includes Willys**/Kaiser-Jeep) (02)</b>	<b>(AMER)</b>		
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
001	Compass	Base, Sport, Limited, Latitude, Altitude	2007- <b>14</b> ,9999	06
<b>LIGHT TRUCKS</b>				
401	CJ-2/CJ-3/CJ-4	Military	1940-66,9999	14
402	CJ-5/CJ-6/CJ-7/CJ-8	Scrambler, Renegade, Golden Eagle, Laredo, Wrangler,	1967-93,9999	14
403	YJ series/Wrangler	SE, Sport, Sahara, X, Rubicon, Unlimited <i>(Dragon, Freedom, Polar, Rubicon X)</i> , Islander, Call of Duty: Black Ops Edition, Sport S, Moab, Altitude, Freedom, Rio Grande, 60th/65th Anniversary Edition, Apex, Columbia, Golden Eagle, Rocky Mountain, Willys,	1986-95; 1997- <b>2014</b> , 9999	14
404	Cherokee (1984-on) <i>(For Grand Cherokee for 2014 on use 02-422.)</i>	Limited, Laredo, Pioneer, Sport, Grand Cherokee, TSi, Briarwood, Country, RHD, SE, Classic, Overland, Special Edition, SRT8, Summit, Laredo X, Overland Summit, Altitude, Trail Hawk, <i>Sport, Latitude</i>	1984- <b>2014</b> , 9999	14
405	Liberty	Sport, Limited Edition, Renegade, Columbia Edition, Rocky Mountain Edition, CRD, Special Edition, Latitude, Jet	2002-13,9999	14
406	Commander	Base, Limited, Overland, Sport, Rocky Mountain	2006-10,9999	14
407	Patriot	Sport, Limited, Latitude, X, Altitude	2007- <b>14</b> ,9999	14
421	Cherokee (thru 1983)	Wide Track, Chief, Commando, Jeepster	1969-83,9999	15
422	<i>Grand Cherokee (For 2014 on. Use model 403 for model years prior to 2013.)</i>	<i>Laredo (Base/E), Limited, Overland, Summit, SRT</i>	<b>2014</b>	<b>15</b>
431	Grand Wagoneer	Custom, Brougham Limited, Wagoneer	1971-91; 1993,9999	15
481	Pick-up	J-10, J-20, Honcho	1940-93,9999	31,32,40,42
482	Comanche	Chief	1986-92,9999	31,32,40,42

<b>MAKE:</b>	<b>Jeep* (Includes Willys**/Kaiser-Jeep) (Cont.) (02)</b>	<b>(AMER)</b>
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Model	Codes	Includes	Model Years	Body Types
<b>LIGHT TRUCK (Cont.)</b>				
498	Other (light truck)		1940- <b>2014</b> , 9999	14,15,19,31,32, 40-42,45,48,49
499	Unknown (light truck)		1940- <b>2014</b> , 9999	14,15,19,31,32, 39-42,45,48,49
999	Unknown (JEEP)		1940- <b>2014</b> , 9999	49

\* Note that Jeep DJ-series are coded under MAKE 03, MODEL 466

\*\* Willys Jeep can be coded 401, or 999.

<b>MAKE:</b>	<b>KIA</b>	<b>(63)</b>		<b>(KIA)</b>
Model	Codes	Includes	Model Years	Body Types

<b>AUTOMOBILES</b>				
031	Sephia	RS, LS, GS	1994-01,9999	04
032	Rio/Rio5	Cinco (Wagon), LX, SX, EX	2001- <b>14</b> ,9999	04-06,09
033	Spectra/Spectra5	GS, GSX, GX, LS, LX, EX, SX	2000-09,9999	04,05,09
034	Optima	LX, SE, V6, EX, SX, Turbo, Hybrid, Limited, SXL	2001- <b>14</b> ,9999	04
035	Amanti		2004-10,9999	04
036	Rondo	EX, LX	2007-10,9999	06
037	Soul	Base, sport, +, !, White Tiger	2009- <b>14</b> ,9999	06
038	Forte	2.0 (EX, LX, SX) 2.4 (SX), Koup (EX, LX, SX)	2010- <b>14</b> ,9999	02,04,05, 09
039	Cadenza		2012- <b>14</b> , 9999	04
<b>040</b>	<b>Quoris</b>		<b>2014</b>	<b>04</b>
398	Other (automobile)		1994- <b>2014</b> , 9999	02,04-06,08,09
399	Unknown (automobile)		1994- <b>2014</b> , 9999	02,04-06,08, 09

<b>LIGHT TRUCKS</b>				
401	Sportage	EX, LX, 4WD, Limited, SX, Base	1995-2003, 2005- <b>14</b> ,9999	14
402	Sorento	EX, LX, LX-V6, SX, SX-V6	2003- <b>14</b> , 9999	14
421	Borrego	EX, LX, LTD	2008-10,9999	15
441	Sedona	EX, LX	2002-12, <b>2014</b> , 9999	20
498	Other (light truck)		1995- <b>2014</b> , 9999	14,15,20
499	Unknown (light truck)		1995- <b>2014</b> , 9999	14,15, 20
999	Unknown (KIA)		1994- <b>2014</b> , 9999	49

<b>MAKE:</b>	<b>Lancia</b>	<b>(40)</b>	<b>(LNCI)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	Beta Sedan – HPE	Zagato	1976-82,9999	02,04,06,08,09
032	Zagato		1976-82,9999	01,02,09
033	Scorpion	(Mote Carlo- Europe Only)	1977	02
398	Other (automobile)	Stratos, Fulvia, Flavia, Appia, Aurelia, Aprilia	1946-82,9999	01-09
399	Unknown (automobile)		1946-82,9999	01,02,04,06,08,09

\*NOTE: Lancia did not import in 1980. 1982 - last year imported

<b>MAKE:</b>	<b>Land Rover</b>	<b>(62)</b>	<b>(LNDR)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS</b>				
401	Discovery	SD, SE, SE7, LE, LSE, Series II, Kalahari Edition, S, HSE, G-4 Edition	1994-2004, 9999	14
402	Defender	90	1993-95; 1997, 9999	14
403	Freelander (2004 on; see 422 for 2002-03.)	HSE, SE, S, SE3, G4 Edition	2004-05,9999	14
404	Range Rover Evoque	Pure, Prestige, Dynamic	2012-14,9999	14
421	Range Rover	County, County SE, Great Divide, Hunter, LSE, County LWB, 4.0SE, 4.6HSE, S, SE, HSE, Westminster, Limited Edition, Sport, Supercharged, HSE-LUX, Autobiography	1987-2014, 9999	15
422	Freelander (2002-03 only; see 403 for 2004 on)	HSE, SE, S, SE3	2002-03,9999	15
423	LR3/LR4	HSE, SE, LUX, Plus, V8, Limited Edition	2005-14,9999	15
424	LR2	i6, TD4, HSE, LUX, Plus	2007-14,9999	15
498	Other (light truck)	Land Rover (1948-1990), Range Rover (before 1987)	1948-2014, 9999	14,15
499	Unknown (light truck)		1948-2014, 9999	14,15,19

<b>MAKE:</b>	<b>Lexus</b>	<b>(59)</b>	<b>(LEXS)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	ES-250/300/300h/330/ 350	Black Diamond Edition, Premium Plus, Ultra Luxury, Hybrid	1990- <b>2014</b> , 9999	04
032	LS-400/430/460/L/600h/L	LS-F Sport	1990- <b>2014</b> , 9999	04
033	SC-400/300	2-Door Coupe	1992-2000, 9999	02
034	GS-300/350/400/430/ 450h/460	Hybrid, F Sport	1993- <b>2014</b> , 9999	04
035	IS-250/300/350/500	SportCross, Sport, F, C	2001- <b>14</b> ,9999	01,04,05,09
036	SC-430	Special Edition, Pebble Beach	2002-10,9999	01
037	HS 250h	Premium	2010-12,9999	04
038	CT 200h	<b>F Sport</b>	2011- <b>14</b> ,9999	05
039	LFA	Standard, Special	2012- <b>14</b> ,9999	01,02,09
398	Other (automobile)		1990- <b>2014</b> , 9999	01,02,04,05, 09
399	Unknown (automobile)		1990- <b>2014</b> , 9999	01,02,04,05, 08,09
<b>LIGHT TRUCKS</b>				
401	RX300/350	2WD, 4WD	1999-03,9999	14
402	GX470	Sport, Premium	2003-09,9999	14
403	RX330/350/400h/450h	Hybrid, Thundercloud, Mark Levinson Package, F Sport	2004- <b>14</b> ,9999	14
404	GX460	Sport, Premium	2010- <b>14</b> , 9999	14
421	LX450/470/570		1996- <b>2014</b> , 9999	15
499	Unknown (light truck)		1996- <b>2014</b> , 9999	14,15,19
999	Unknown (LEXUS)		1990- <b>2014</b> , 9999	49

<b>MAKE:</b>	<b>Lincoln</b>	<b>(13)</b>	<b>(LINC)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
001	Continental (thru '81)/ Town Car	Continental, (thru '81), Signature/Designer Series, Town Car ('81 on, body 04 only), Cartier, Executive, L, Premium, Ballistic Protection Edition, Ultimate, Designer Series, Limited	1940-2011, 9999	01,02,04,08,09, 11,12

<b>MAKE:</b>	<b>Lincoln (Cont.)</b>	<b>(13)</b>	<b>(LINC)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
002	Mark	I, II, III, IV, V, VI, VII, VIII LSC, Signature/Designer Series	1956-98,9999	01,02,04,08,09
005	Continental ('82 on)	Signature/Designer Series, Luxury	1982-2002, 9999	02,04,08,09,12
011	Versailles		1977-80,9999	04
012	LS	Convenience, Premium, Sport, Luxury, Ultimate	2000-06,9999	04
013	Zephyr/MKZ	FWD, AWD, Hybrid, 2.0L, 3.7L, Ecoboost, <b>Premiere, Select</b>	2006- <b>14</b> ,9999	04
014	MKX	FWD, AWD	2007- <b>14</b> ,9999	06
015	MKS	Ecoboost, 3.7L FWD/AWD	2008- <b>14</b> ,9999	04
016	MKT	Ecoboost, TownCar, 3.5L, 3.7L	2010- <b>14</b> ,9999	06
398	Other (automobile)	Cosmopolitan, Capri, Premiere	1940- <b>2014</b> , 9999	01-12
399	Unknown (automobile)		1940- <b>2014</b> , 9999	01-12
<b>LIGHT TRUCKS</b>				
401	Aviator	Premium, Luxury, Ultimate, Kitty Hawk Edition	2003-06,9999	14
<b>402</b>	<b>MKC</b>		<b>2015</b>	<b>14</b>
421	Navigator	2WD, 4WD, Premium, Luxury, Ultimate, L, 5.4L	1997- <b>2014</b> , 9999	15
481	Blackwood		2002	31
482	Mark LT	2WD, 4WD	2006-08,9999	31
498	Other (light truck)		1997- <b>2015</b> , 9999	14,15, 31
499	Unknown (light truck)		1997- <b>2015</b> , 9999	14,15, 49
999	Unknown (LINCOLN)		1990- <b>2015</b> , 9999	49

<b>MAKE:</b>	<b>Mazda</b>	<b>(41)</b>	<b>(MAZD)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	RX2		1970-74,9999	02,04,06,08,09
032	RX3		1970-78,9999	02,04,06,08,09
033	RX4		1974-78,9999	02,04,06,08,09
034	RX7	S, GS, GSL, SE	1979-96,9999	01-03,09
035	323/GLC/Protégé/ Protégé 5	DX, Protégé (1990-on), DX, LX, ES, Mazdaspeed	1977-2003, 9999	03-07,09

<b>MAKE:</b>	<b>Mazda (Cont.)</b>	<b>(41)</b>	<b>(MAZD)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
036	Cosmo		1976-78,9999	02
037	626	GT,GS,GSL,SE,DX,LX,ES	1979-2002, 9999	02,04,05,08,09
038	808		1972-77,9999	02,04,06,08,09
039	Mizer		1976	02,04,06,08,09
040	R-100		1950-72,9999	02
041	616/618		1968-72,9999	02,04,08,09
042	1800		1968-72,9999	04,06,09
043	929		1988-95,9999	04
044	MX-6	Turbo, LS, M-Edition	1988-97,9999	02
045	Miata/MX-5	Miata (LS), SE, SV, Mazdaspeed, Sport, Touring, Grand Touring, Club, Special, Special Edition, PRHT	1990-97; 1999- <b>2014</b> , 9999	01
046	MX-3	GS	1992-95,9999	02
047	Millenia	L, S, P, Millennium Edition	1995-02,9999	04
048	MP3	Limited Edition	2001	04
049	RX-8	Sport AT, Shinka, Touring, Grand Touring, R3, Plus i, s, Grand Touring, Sport, Mazdaspeed6, Grand Sport, SV, Plus, Touring	2003- <b>14</b> ,9999	04
050	Mazda6	i, s, SP23, Sport, Touring, Grand Touring, Touring Value, Mazdaspeed3, iSV	2003- <b>14</b> ,9999	04-06,09
051	Mazda3	Sport, Touring, Grand Touring	2004- <b>14</b> ,9999	04-06,09
052	Mazda5	Touring	2006-10, 2012- <b>14</b> ,9999	06
053	CX-7	i, s, Sport, Touring, Grand Touring, SV	2007-12,9999	05
054	CX-9 (2007-12 only. For 2013 on see model 421.)	Sport, Touring, Grand Touring	2007-12,9999	06
055	Mazda2	Sport, Touring	2011- <b>14</b> ,9999	05
398	Other (automobile)	1200, 616	1950- <b>2014</b> , 9999	02,03,09
399	Unknown (automobile)		1950- <b>2014</b> , 9999	01-09
<b>LIGHT TRUCKS</b>				
401	Navajo		1991-94,9999	14
402	Tribute	DX, DX-V6, LX-V6, ES-V6, ES, LX, i, s, Hybrid, Sport, Grand Touring, Touring	2001-12,9999	14
403	CX-5	Sport, Touring, Grand Touring	2013- <b>14</b> ,9999	14

MAKE: Mazda (Cont.)		(41)	(MAZD)	
Model	Codes	Includes	Model Years	Body Types
<b>LIGHT TRUCKS (Cont.)</b>				
421	CX-9 (2013 on. See model 054 for 2007-12 model years.)	Sport, Touring, Grand Touring	2013- <b>14,9999</b>	15
441	MPV	LX, ES, DX, All Sport, LX-SV	1989-98; 2000-06,9999	20
471	Pickup/ B-Series Pickup	B2000, B2200, B2300, SE-5, LX, SE (2WD, 4WD), SX, DS, Cab Plus, B2500/B2600/ B3000/B4000, Dual Sport Cab	1972-2009, 9999	30,32,40,42
498	Other (light truck)		1965- <b>2014</b> , 9999	14,15, 20,30,32, 40,42
499	Unknown (light truck)		1965- <b>2014</b> , 9999	14,15, 20,30,32, 39,40,42,48,49
999	Unknown (MAZDA)		1950- <b>2014</b> , 9999	49

MAKE: Mercedes Benz		(42)	(MERZ)	
Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES</b>				
031	200/220/230/240/ 250/260/280/300/ 320/420	Sedan and 5-passenger "C" only; SE,CD,D,SD,TD,TE, CE,E; DOES NOT include 280 SE (1975 on) or 300 SD-see code 037;C-Class up to 1993, E-Class up to 1997	1950-97,9999	01,02,04,06, 08,09,12
032	230/280 SL	2-seater only	1964-71,9999	01,02,09
033	300/350/380/450/500/ 560 SL	2-seater only; 300/500 SL (1990 on)	1972-94,9999	01,02,09
034	350/380/420/450/560 SLC 280/300		1973-94,9999	02
035	SEL		1967-72,9999	02,04,08
036	300/380/420/450/500/ 560/SEL & 500/560, 600 SEC & 300/350 SDL		1973-94,9999	02,04,06,08,09
037	300/380/450 SE	280 S, 280 SE (1975 on), 300 SD Sedan/350 SD	1968-94,9999	01,02,04,08,09
038	600, 6.9 Sedan	Pullman	1978-87,9999	04,12
039	190	D, E, 2.3, 2.5	1984-93,9999	04,06,09
040	300	CE Cabriolet	1993-94,9999	01
041	400/500E		1992-94,9999	01,02,04,06, 08,09

<b>MAKE:</b> Mercedes Benz (Cont.)		<b>(42)</b>		<b>(MERZ)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>	
<b>AUTOMOBILES (Cont.)</b>					
042	C Class (94 on)	C220/C230 (Kompressor)/ C240/C250/C280/C300/ C320/C350 (W)/C32/36/43/ 55/63 AMG, Sport, Luxury	1994- <b>2014</b> , 9999	02,04,06,09	
043	S Class (95 on)	S320/350/400(V)/420/430/ 450/500/550(V)/600(V), 55/ 63/65 (AMG), Hybrid, 4-M	1995- <b>2014</b> , 9999	02,04,08,09	
044	SL Class (95 on)	SL320/500/550(R)/600(R), Silver Arrow Edition, SL55/63/65 AMG	1995- <b>2014</b> , 9999	01,02,09	
045	SLK	SLK230/250/280/300/320/ 350 (Sport), Kompressor, SLK 32/55 (AMG), Special Edition	1998- <b>2014</b> , 9999	01	
046	CL Class	CL500/550/600, CL55/63/ 65 AMG	1998- <b>2014</b> , 9999	02	
047	CLK	CLK 320/350/430/500/550, Cabriolet, CLK 55/63/65 AMG	1998-2009, 9999	01,02, 09	
048	E Class (97 on)	300/TD, 320 (Wagon) 350 (4-M,A,C,S,W)/400/420/ 430/500/550 (4-M,A,C,W), 55/63/ <b>63S</b> AMG, E320CDI, Hybrid	1996- <b>2014</b> , 9999	01,02,04,06,09	
049	SLR	McLaren, 722 Edition	2005-10,9999	01,02, 09	
050	R Class	R320/350/500, R63 AMG	2006-12,9999	06	
051	CLS Class	CLS500/550, CLS55/63/ <b>63S</b> AMG	2006- <b>14</b> ,9999	04	
052	SLS Class	AMG (C/GT)	2011- <b>14</b> ,9999	02	
<b>053</b>	<b>B Class</b>		<b>2014</b>	<b>05</b>	
<b>054</b>	<b>CLA Class</b>	<b>250, 45</b>	<b>2014</b>	<b>04</b>	
398	Other (automobile)		1946- <b>2014</b> , 9999	01-12	
399	Unknown (automobile)		1946- <b>2014</b> , 9999	01-12	
<b>LIGHT TRUCKS</b>					
401	M/ML Class	ML320/350/430/450/500/ 550, ML55/63 (AMG), Special Edition, Hybrid, 4-M	1998- <b>2014</b> , 9999	14	
402	G Class	G500/550, G55/63 (AMG)	2002- <b>14</b> ,9999	14	
403	GLK Class	220/250/280/320/350	2010- <b>14</b> ,9999	14	
421	GL Class	GL320/350/450/550, GL63 (AMG)	2007- <b>14</b> ,9999	15	
461	Sprinter	(2004-2010 on see “Freightliner” and “Dodge”)	2002-03, 2010- <b>14</b> ,9999	21,22,28,29	

<b>MAKE:</b>	<b>Mercedes Benz (Cont.)</b>	<b>(42)</b>	<b>(MERZ)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
	<b>LIGHT TRUCKS (Cont.)</b>			
470	Van derivative	Kurbstar	1982- <b>2014</b> , 9999	28,29
498	Other (light truck)		1946- <b>2014</b> , 9999	14-16,19,21,22, 31,32,40-42,45,48
499	Unknown (light truck)		1946- <b>2014</b> , 9999	14-16,19,21,22, 28,29, 31,32, 40-42,45,48,49
	<b>MEDIUM/HEAVY TRUCKS</b>			
870	Medium Heavy Van-Based Vehicle	Sprinter	2002-03, 2010- <b>14</b> , 9999	55, 61-64
881	Medium/Heavy – CBE		1965-91,9999	60-64,78
882	Medium/Heavy – COE low entry		1965-91,9999	60-64,78
883	Medium/Heavy – COE high entry		1965-91,9999	60-64,78
884	Medium/Heavy – Unknown engine location		1965-91,9999	60-64,78
890	Medium/Heavy – COE entry position unknown		1965-91,9999	60-64,78
898	Other (medium/heavy truck)		1965-91,9999	60-64,78
	<b>BUSES</b>			
981	Bus**: Conventional (Engine out front)		1965-91,9999	50-52,58,59
988	Other (bus)		1965-91,9999	50-52,58,59
989	Unknown (bus)		1965-91,9999	91-93,97
	<b>OTHER VEHICLE</b>			
998	Other (vehicle)		1965- <b>2014</b> , 9999	49,79,99
999	Unknown (MERCEDES BENZ)		1950- <b>2014</b> , 9999	49,79,99

\*\* Use code "989"(bus) if the frontal plane or the engine location is unknown.

<b>MAKE:</b>	<b>Mercury (Merkur: See "56") (14)</b>	<b>(MERC)</b>		
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
	<b>AUTOMOBILES</b>			
002	Cyclone	GT, CJ, Spoiler	1964-70,9999	01,02,09
003	Capri-domestic (for 1967 see 008)	RS, Turbo, GS, Black	1979-86;	01,03,09
004	Cougar (For 1967-1997. See 038 for 1999-2002) /XR7 (1967-1997)	Magic, 5.0 Villager, Brougham, RS, LS, GS, Eliminator, XR-7	1989-94,9999 1967-97,9999	01,02,04,06, 08,09

MAKE: Mercury (Merkur: See "56") (Cont.) (14)			(MERC)	
Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES (Cont.)</b>				
006	Marquis/Monterey (car version; for van version 2004 on see code 444) /Grand Marquis	Marauder (prior to 2003, 2003 on see code 039), Montclair, X-100, 5-55, Parklane, S-55, Custom, Brougham Grand Marquis (GS, LS), Medalist, Turnpike, Colony Park, GS, LS, LSE, Limited Edition, Palm Beach Edition	1952-2011, 9999	01,02,04,06, 08,09
008	Comet	Caliente, Capri (1967), GT, Voyager, 202, 404, Villager Wagon	1960-79,9999	01,02,04,06, 08,09
009	Bobcat	Runabout, Villager Wagon	1975-80,9999	03,06,09
010	Montego (prior to 1976; for 2005 on see code 020)	GT, MX, Villager, Brougham, Comet (1968-1970)	1968-76,9999	01,02,04,06, 08,09
011	Monarch	Ghia	1975-80,9999	02,04,08,09
012	Zephyr	GS, Z-7	1978-83,9999	02,04,06,08-,9
013	Lynx/LN7	L, LS, GS, RS, XR-3	1981-87,9999	03,05-07,09
015	Topaz	L, LS, GS, 4x4, XR5, LTS, Sport	1984-94,9999	02,04,08,09
017	Sable	LS, GS (Premium), GS Plus, Platinum Edition, Premier, Base	1986-2005, 2008-09,9999	04,06,09
020	Montego (2005 on)	Luxury, Premier	2005-07,9999	04
021	Milan	I-4, V6 (Base/Premier), Hybrid	2006-11,9999	04
031	Capri-foreign	Capri II, 2+2	1970-77,9999	03
033	Pantera-foreign	deTomaso	1972-74,9999	01-10
036	Tracer	L, GL, LTS, GS, LS	1988-99,9999	03-06,09
037	Mystique	GS, LS	1995-2000, 9999	04
038	Cougar (1999-2002)	V-6, I-4, S, Sport, CR, XR	1999-2002, 9999	02,03,09
039	Marauder	M75, 300A	2003-04,9999	04
398	Other (automobile)		1962-2011, 9999	01-10
399	Unknown (automobile)		1952-2011, 9999	01-10
<b>LIGHT TRUCKS</b>				
401	Mountaineer	Convenience, Luxury, Premier (4.0/4.6L)	1996-2010, 9999	14
402	Mariner	Convenience, Luxury, Premier, Hybrid	2005-11,9999	14

MAKE: Mercury (Merkur: See "56") (Cont.) (14)			(MERC)	
Model	Codes	Includes	Model Years	Body Types
<b>LIGHT TRUCKS (Cont.)</b>				
443	Villager	LS, GS, Nautica, Estate, Sport, Sport Plus, Popular	1993-2002, 9999	20
444	Monterey (van version; for car version prior to 2004 see code 006)	Convenience, Luxury, Premier	2004-07,9999	20
498	Other (light truck)		1993-2011, 9999	14, 20
499	Unknown (light truck)		1993-2011, 9999	49
999	Unknown (MERCURY)		1950-2011, 9999	49
MAKE: Merkur			(56)	(MERK)
Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES</b>				
031	XR4Ti	Turbo	1985-89,9999	03
032	Scorpio	Turbo	1988-90,9999	05
398	Other (automobile)		1985-90,9999	03-05,07,09
399	Unknown (automobile)		1985-90,9999	03-05,07,09
MAKE: MG			(43)	(MG)
Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES</b>				
031	Midget	GAN I/II/III/4/5, MK I, MK II, MKIII	1962-80,9999	01
032	MGB	MK I/II/IV, 600 Limited, V-8	1955-80,9999	01,02,09
033	MGB	GT, MK III	1967-74,9999	02,03,09
034	MGA	1500, 1600, YT,TC,TD/II, MK I/II, A	1945-62,9999	01,02,09
035	TA/TC/TD/TF	Y-Type, 430, TDC	1945-62,9999	01,02,09
036	MGC	GT	1968-69,9999	01,02,09
037	Magnette/Sports Sedans	ZB,ZA/YA/YB, MK III, MK IV, 1100, 1300	1945-66,9999	02,04,08,09
398	Other (automobile)		1945-80,9999	01-04,08,09
399	Unknown (automobile)		1945-80,9999	01-04,08,09

<b>MAKE:</b>	<b>Mitsubishi</b>	<b>(52)</b>	<b>(MITS)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	Starion	2+2, LE, Turbo, ESI	1982-89,9999	03
032	Tredia	L, LS, Turbo	1982-88,9999	04
033	Cordia	L, Turbo	1982-88,9999	03
034	Galant	ECS, Sigma (thru 88), ES, LS, DE, GTS-V6, I-4, Special Edition, Ralliart, Sport Edition, SE, FE	1985-2012, 9999	04
035	Mirage ( <i>For 1985-2002. For 2014 on use model 048.</i> )	L, Turbo, GS, LS, DS, DE, ES	1985-2002, 9999	02-04, 08, 09
036	Precis		1987-94,9999	03,05,07,09
037	Eclipse	GS, DOHL, Turbo, GS-T, GSX, Spyder, RS, GT, GTS, Remix Edition, SE, Sport. Special Edition	1990-2012, 9999	01-03, 09
038	Sigma	(prior '89 see 034)	1989-90,9999	04
039	3000 GT	SL, VR-4, Spyder	1991-99,9999	01-03, 09
040	Diamante	LS, ES, LE, VR-X	1992-2004, 9999	04, 06, 09
041	iMEV	ES, SE	2012- <b>14</b> ,9999	05
045	Expo Wagon	LRV, Sport	1992-95,9999	06
046	Lancer/Lancer Sportback/Lancer Evolution	ES, LS, O-Z, Rally, Evolution VII/VIII/IX/X, Sport, Ralliart LS, MR Edition, DE, GSR, GTS, Touring, SE, GT	2002- <b>14</b> ,9999	04-06, 09
047	Outlander	ES, LS, SE, XLS, Limited, GT, Sport, SE-S, GT-S	2003- <b>14</b> ,9999	06
<b>048</b>	<b>Mirage (2014 on. For 1985-2002 use 52-035.)</b>		<b>2014</b>	<b>05</b>
398	Other (automobile)	500, 1000, Debonair, Galant (1969)	1960- <b>2014</b> , 9999	01-09
399	Unknown (automobile)		1960- <b>2014</b> , 9999	01-09
<b>LIGHT TRUCKS</b>				
401	Montero/Montero Sport	Sport, LS, SR, XLS, ES, LTD, 20 <sup>th</sup> Anniversary Edition, SE	1983-2006, 9999	14
402	Endeavor	LS, SE, XLS, Limited	2004-12,9999	14
441	Mini-Van	LS	1987-90,9999	20
471	Pickup	Mighty Max, SPX, 4x4	1983-96,9999	30,32,40,42
472	Raider	LS, Durocross, XLS	2006-10,9999	31

<b>MAKE:</b>	<b>Mitsubishi (Cont.)</b>	<b>(52)</b>	<b>(MITS)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS (Cont.)</b>				
498	Other (light truck)		1983-2012, 9999	14,20,30-32,40,42
499	Unknown (light truck)		1983-2012, 9999	14,20,30-32,40,42, 48,49
<b>MEDIUM/HEAVY TRUCKS</b>				
882	Medium/Heavy – COE low entry	FUSO FE/FG/FH/FK/FM	1983- <b>2014</b> , 9999	60-64,66,71,72,78
898	Other (medium/heavy truck)		1983- <b>2014</b> , 9999	60-64,66,71,72,78
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1981-2004, 9999	50-52,58,59
982	Bus: Front engine, Flat Front		1981-2004, 9999	50-52,58,59
983	Bus: Rear engine, Flat front		1981-2004, 9999	50-52,58,59
988	Other (bus)		1981-2004, 9999	50-52,58,59
989	Unknown (bus)		1981-2004, 9999	50-52,58,59
** Use code "989"(bus) if the frontal plane or the engine location is unknown				
999	Unknown (MITSUBISHI)		1983- <b>2014</b> , 9999	49,79,99
<b>MAKE:</b>	<b>Nissan/Datsun</b>	<b>(35)</b>	<b>(NISS) - (DATS)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	F-10		1977-78,9999	03,05-07,09
032	200SX/240SX	SE, SE-R, LE	1977-98,9999	01-03,09
033	210/1200/B210	110 series, Honeybee	1971-82,9999	02-04,06,08,09
034	Z-car, ZX	240/260/280Z&ZX, 300 ZX, 2+2, Turbo	1970-96,9999	01-03,09
035	310	SPL	1979-82,9999	02,03,05,07,09
036	510	PL,WPL	1968-73; 1978-81,9999	02-09
037	610	PL, HL	1973-76,9999	02-04,06,08,09
038	710	PL	1974-77,9999	02-04,06,08,09
039	810/Maxima	SE (Titanium Special), GXE, GLE, 3.5SE/SL/SEL /SV, Platinum Edition	1977- <b>2014</b> , 9999	04,06,09

<b>MAKE:</b>	<b>Nissan/Datsun (Cont.)</b>	<b>(35)</b>	<b>(NISS) - (DATS)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
040	Roadster	SPL311, SRL311, 1500, 1600, 2000, convertible, Fairlady	1950-70,9999	01
041	311/411	1000, Bluebird, PL311/PL312/PL410/PL411/ RL411	1959-67,9999	04,06,09
042	Stanza	XE	1982-93,9999	03-07,09
043	Sentra	E, XE, GXE, S, SE, SE-R (Spec V), GLE, CA, 2.5LE, 1.8, 1.8S, 2.0/S/SL/SR, Special Edition, Platinum Edition, Spec-V, FE, SV, FE+S	1982- <b>2014</b> , 9999	02,04,06,08,09
044	Pulsar	NX, EXA (1986 on)	1983-90,9999	02,03,05,07,09
045	Micra		1987-94,9999	01-05,07-09
046	NX 1600/2000	T-bar coupe	1991-94,9999	02,03,09
047	Altima	XE, GXE, SE, GLE, 2.5 S/SL/SR/SV, 3.5 S/SE/SL/SR/ SV, SE-R, Hybrid	1993- <b>2014</b> , 9999	02,04, 09
048	350Z/370Z	Enthusiast, Performance, Touring, Track, Base, 35 <sup>th</sup> Anniversary, Grand Touring, Nismo, 40 <sup>th</sup> Anniversary	2003- <b>14</b> ,9999	01,02,09
049	Murano	SE, SL, S, LE, SV, CrossCabriolet	2003- <b>14</b> ,9999	01,06,09
050	Versa	1.8S/SL, 1.6 S/SV/SL, Plus, Note	2007- <b>14</b> ,9999	04,05, 09
051	Rogue	S, SL, SV, Krom/Special Edition	2008- <b>14</b> ,9999	06
052	Cube	1.8 S/SL, Krom Edition, Indigo Edition	2009- <b>14</b> ,9999	06
053	GT-R	Base, Premium, Black Edition, Track Edition	2009- <b>14</b> ,9999	02
055	Leaf	S, SL, SV	2011- <b>14</b> ,9999	05
398	Other (automobile)	110 sedan, K110	1955- <b>14</b> ,9999	01-10
399	Unknown (automobile)		1955- <b>14</b> ,9999	01-10
<b>LIGHT TRUCKS</b>				
401	Pathfinder	MPV, 4X4, XE, LE, SE, S, Off-Road, FE+, SV, Silver Edition, Hybrid	1986- <b>2014</b> , 9999	14
402	Xterra	XE (I-4), SE, (S/C), SE-R, Spec V, X, S, Off-Road, Pro-4X	2000- <b>14</b> ,9999	14

<b>MAKE:</b>	<b>Nissan/Datsun (Cont.)</b>	<b>(35)</b>	<b>(NISS) - (DATS)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS (Cont.)</b>				
403	Juke	S, SL, SV	2011- <b>14,9999</b>	14
421	Pathfinder Armada	LE, SE, SE Off-Road, Titanium, Platinum, SV, SL	2004- <b>14,9999</b>	15
441	Van	XE, GXE	1987-91,9999	20
442	Axxess		1989-90,9999	20
443	Quest	XE, GXE, SE, GLE, 3.5 S/SE/SL, Special Edition, SV, LE	1993-2002; 2004-09, 2011- <b>14,9999</b>	20
444	Altra EV*	(electric vehicle*)	1998-2005, 9999	20
446	NV200/eNV200		2013- <b>14,9999</b>	20
<b>461</b>	<b>NV</b>	<b>1500, 2500, 3500</b>	<b>2011-14,9999</b>	<b>21,22, 28, 29</b>
471	Datsun/Nissan Pickup 1955-1997)	120,620 series, King Cab, Hardbody, XE, SE	1955-97,9999	30,32,40,42
472	Frontier (1998 on)	XE, SE, S/C (Regular Cab, King Cab, Desert Runner, Crew Cab), Open-Sky, SVE, Nismo, Pro-4X, LE, SV, SL, S	1998- <b>2014</b> , 9999	30,32,40,42
473	Titan (from 2004-06; see 481 for 2007 on)	E, LE, SE, XE	2004-06,9999	31
481	Titan (from 2007 on; see 473 for 2004-06)	LE, SE, XE, PRO-4X, S, SV, SL	2007- <b>14,9999</b>	31
498	Other (light truck)	Patrol (1960)	1955- <b>2014</b> , 9999	14,15,20,21, 22, 30-32
499	Unknown (light truck)		1955- <b>2014</b> , 9999	14,15,19,20, 29, 30,32,39,40,42, 48,49
<b>MEDIUM/HEAVY TRUCKS</b>				
870	Medium/Heavy Van-Based Vehicle	NV	2011- <b>14,9999</b>	55,61-64
883	Medium/Heavy – COE high entry		1986- <b>2014</b> , 9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)		1986- <b>2014</b> , 9999	60-64,66, 71,72,78
999	Unknown(NISSAN/DATSUN)		1950- <b>2014</b> , 9999	49,79,99

<b>MAKE:</b>	<b>Oldsmobile</b>	<b>(21)</b>	<b>(OLDS)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
001	Cutlass (RWD-only)	Supreme, S, LS, Salon, Brougham Vista Cruiser, F85 (thru 1972), Rallye 350, Hurst Olds, 442, Calais (thru 1985), Classic (88)	1960-88,9999	01,02,04,06,08,09
002	Delta 88/LSS	Royale, Custom, Delta, Jetstar 88, Delmont 88, Starfire (Thru 1966), Custom Cruiser, Jetfire, Eighty-Eight (LS, 50 <sup>th</sup> Anniv. Edition)	1949-99,9999	01-04,06,08,09
003	Ninety-Eight/Regency	Luxury, Futuramic, Brougham	1949-99,9999	01,02,04,08,09
005	Toronado	XS,XSR, Trofeo, Brougham Custom	1966-92,9999	02
006	Commercial Series	Ambulance/Hearse	1940-2003,9999	09-12
012	Starfire	SX, GT, ST	1975-80,9999	01-03,09
015	Omega	X-body type, Brougham	1973-85,9999	02-04,08,09
016	Firenza	S, LS, SX, Cruiser, GT	1982-88,9999	03-06,07,09
017	Ciera	Cutlass Ciera, Cutlass Cruiser, Brougham, ES, I (International)	1982-96,9999	01,02,04,06,08.09
018	Calais	GT, ES, 500	1985-91,9999	02,04,08,09
020	Cutlass (FWD)	Supreme (Excludes Ciera),GLS, GL	1988-99,9999	01,02,04,08,09
021	Achieva/Alero	SC, SL, GX, GL (1,2,4), GLS	1992-2004,9999	02,04,08,09
022	Aurora	3.5L, 4.0L,Collector's Series	1995-99; 2001-03,9999	04
023	Intrigue	GL, GX, GLS	1997-2002,9999	02,04,08,09
398	Other (automobile)	66/68/70/90, Dynamic 70	1930-2004,9999	01-12
399	Unknown (automobile)		1930-2004,9999	01-12
<b>LIGHT TRUCKS</b>				
401	Bravada	2WD, 4WD, Collector's Series	1991-94; 1996-2004,9999	14
441	Silhouette	GL, GLS, Series I, Series II, GS Premier Edition, Collector's Series	1990-2004,9999	20
499	Unknown (light truck)		1932-2004,9999	14,20,49
999	Unknown (OLDSMOBILE)		1932-2004,9999	49

<b>MAKE:</b>	<b>Peugeot</b>	<b>(44)</b>	<b>(PEUG)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	304		1971-72,9999	04-06,09
032	403	Station Wagon	1955-67,9999	01,04,06,09
033	404	Station Wagon	1961-70,9999	01,04,06,09
034	504/505	STI, STX, Turbo, S, STI, STX, GL, GLS Liberte, Station Wagon, DSL, DL, GLX	1970-91,9999	04-06,09
035	604	SL, D	1977-84,9999	04
036	405	Mi-16, DL, S	1989-91,9999	04,06,09
398	Other (automobile)	202, 203	1945-91,9999	01-09
399	Unknown (automobile)		1945-91,9999	01-09
<b>MOTORCYCLES</b>				
701	0-50 cc		1965-83,9999	81
702	51-124cc		1965-83,9999	81
709	Unknown cc		1965-83,9999	81
999	Unknown (PEUGEOT)		1960-91,9999	99
<b>MAKE:</b>	<b>Plymouth</b>	<b>(09)</b>	<b>(PLYM)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
001	Valiant/Scamp/Duster (thru 1976)	100, 200, Brougham, Signet, Custom, Special, 340, 360, Twister	1960-76,9999	01,02,04,06, 08,09
002	Satellite/Belvedere	Belvedere I/II, GTX, Roadrunner (through 1974), Brougham, Sebring, Sebring Plus, Superbird	1951-74,9999	01,02,04,06, 08-12
003	Fury (Fury Gran thru '78)	I, II, III, Roadrunner (1975), Suburban, Salon, VIP, Sport	1957-78,9999	01,02,04,06, 08,09
004	Gran Fury ('80 on)	Sedan, Coupe, Salon	1980-89,9999	02,04,06,08,09
005	Barracuda	Formula, S, 340, Gran Coupe, AAR, Cuda	1964-74,9999	01,02,09
006	'Volare'	Custom, Premier, Roadrunner (1976 on), Police	1976-80,9999	02,04,06,08,09
007	Caravelle	Turbo, SE	1985-88,9999	04
008	Horizon/Turismo	TC-3, Turismo 2.2, Miser, America, Custom, SE, Duster (1985 on), Expo	1978-90,9999	03,05,07,09
011	Reliant (K)	SE, LE, Reliant America, Limited	1981-89,9999	02,04,06,08,09
013	Scamp-(car-based p/u)	GT, 2.2	1982-84,9999	10

<b>MAKE:</b>	<b>Plymouth (Cont.)</b>	<b>(09)</b>	<b>(PLYM)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
017	Sundance	RS, Turbo, Sundance Duster, America	1987-94,9999	03,05,07,09
019	Acclaim	LX, LE	1989-95,9999	04
020	Neon (2002 and on, see Dodge)	Sport, Competition, Highline	1995-2001, 9999	02,04,08,09
031	Cricket		1971-72,9999	04,06,09
032	Arrow	GS, GT, Fire Arrow	1976-80,9999	03
033	Sapporo	all imported	1978-83,9999	02,03,09
034	Champ/Colt import (includes 2WD Vista)	Turbo, Custom, GL, SE, DL, E Station wagon (1984 on)	1979-94,9999	02-09
035	Conquest	TSI	1984-87,9999	03
037	Laser	RS, Turbo	1989-94,9999	02,03,09
038	Breeze		1996-2000, 9999	04
039	Prowler (1997, 1999-2001 only. For 2002 on, see Chrysler)	Roadster, Black Tie Edition	1997; 1999-2001, 9999	01
398	Other (automobile)	Regant, Fleet, Savoy, Concord, Cambridge	1930-95,9999	01-12
399	Unknown (automobile)		1965-2001, 9999	01-12
<b>LIGHT TRUCKS</b>				
421	Trailduster		1974-93,9999	15
441	Vista Van	4X4 (only)	1987-94,9999	20
442	Voyager (minivan) (2000 and on, see Chrysler)	SE, LX, Grand Voyager, SE Expresso, EPIC-electric*	1984-2001, 9999	20
461	Van-fullsize (B-series)	Voyager (thru 1983), Sport, Premier	1965-95,9999	21
471	Arrow pickup (foreign)		1975-91,9999	30,32
498	Other (light truck)		1965-2001, 9999	15,20,21,28,29, 30,32,42,45,48
499	Unknown (light truck)		1974-2001, 9999	15,20,21,29,30, 32, 48, 49
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1965-2001, 9999	<b>92,93,97</b>
999	Unknown (PLYMOUTH)		1957-2001, 9999	49

<b>MAKE:</b> Pontiac		<b>(22)</b>		<b>(PONT)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>	
<b>AUTOMOBILES</b>					
001	Lemans (See model 031 for 1988 on)/Tempest (thru 1970)	Safari, T-37, Luxury, Grand Sport, GTO (thru 1973), GT-37, Sprint, Judge, Grand AM (73-75), Grand Lemans	1961-81,9999	01,02,04,06, 08,09	
002	Bonneville/Catalina/ Parisienne	Brougham, Grand Safari, Safari, Grandville, 2+2, Executive, Starchief, SE, SSE, SSEi, G, SLE, GXP	1954-2005, 9999	01,02,04,06, 08,09	
005	Fiero	2M4, 2M6, GT, SE	1984-89,9999	02	
008	Ventura/GTO	II, SJ, Sprint, GTO (74-77), Custom, Base, LS2	1971-77; 2004-06,9999	02-04,09	
009	Firebird/Trans AM	Esprit, Formula, GTA, Redbird, Yellowbird, Skybird, SE, Bandit, TransAm	1967-2002, 9999	01-03,09	
010	Grand Prix (RWD)	J, LJ, SJ, Brougham, 2+2, GT, STE, SE	1962-87,9999	01,02,09	
011	Astre	Safari, SJ, Custom	1975-77,9999	02,03,06,09	
012	Sunbird (thru 1980;1985 on see model 016)	Safari, Sport, Formula	1976-80,9999	01-09	
013	T-1000/1000	2T	1981-87,9999	03,05,07,09	
015	Phoenix	LJ, SJ	1977-84,9999	02-05,07-09	
016	Sunbird (1985-1994 only) /J-2000/Sunfire (1995 on)	LE, SE, GT, 2000 Convertible, 2J, S, SE, GT, 1SA, 1SB, 1SC, 1SV	1982-2005, 9999	01-09	
017	6000	STE, SE, LE	1982-91,9999	02,04,06,08,09	
018	Grand AM	SE, LE, GT, GT1, SE1, SE2, SC/T Package	1973-2005, 9999	02,04,08,09	
019	G5	Base, GT	2007-10,9999	02	
020	Grand Prix (FWD)	LE, SE, STE, GT, McLaren Turbo, GTP, Limited Edition, 40 <sup>th</sup> Anniversary Edition, GXP	1988-2008, 9999	01,02,04,08,09	
022	G6	Base, GT, GTP, Value Leader, GXP	2005-10,9999	01,02,04,09	
023	Solstice	GXP	2006-10,9999	01,02, 09	
024	G8	GT, GXP	2008-10,9999	04	
025	G3		2009-10,9999	04,05,09	
031	Lemans (1988 on)	LE, SE, Tempest Canadian	1988-93,9999	01-09	
032	Vibe	GT, AWD, HB	2003-10,9999	06	
398	Other (automobile)	Torpedo, Streamliner, Chieftain Star Chief, Super Chief	1946-2010, 9999	01-10	
399	Unknown (automobile)		1926-2010, 9999	01-10	

<b>MAKE:</b>	<b>Pontiac (Cont.)</b>	<b>(22)</b>	<b>(PONT)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS (Cont.)</b>				
401	Aztek	GT, SE, 1SA, 1SB, 1SC, Rally Edition	2001-05,9999	14
403	Torrent	GXP	2006-09,9999	14
441	Trans Sport/ Montana/SV6	SE, Montana, Extended, Versatrak, 1SV, 1SA, 1SX, 1SY, 1SE, Chrome Sport,	1990-2009, 9999	20
499	Unknown (light truck)		1990-2009, 9999	14,20,49
999	Unknown (PONTIAC)		1951-2010, 9999	49
<b>MAKE:</b>	<b>Porsche</b>	<b>(45)</b>	<b>(PORs)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	911/996	L, S, E, T, SC, Carrera (2, 4, Cabriolet, Targa), GT, Slopenose, 4S, Targa, Speedster, Turbo, B series, S-Coupe, Cabriolet (S), GT2, GT3 (RS), GT	1965- <b>2014</b> , 9999	01,02,09
032	912	1600, E, T	1966-69; 1976,9999	01,02,09
033	914	1.7, 1.8, 2.0, S, 914/4/6	1970-76,9999	01
034	924	Turbo, S	1977-88,9999	01-03,09
035	928	S, S4, GT, GTS	1978-95,9999	02,03,09
036	930	Turbo	1979	02
037	944	Turbo, S, S2	1983-91,9999	01-03,09
038	959	Not Imported to U.S.	1989-94,9999	01-03,09
039	968		1992-95,9999	01,02,09
040	986/Boxster	Boxster, Boxster Cabriolet, S Roadster, S Anniversary, Limited Edition, Spyder, Black Edition	1997- <b>2014</b> , 9999	01
041	Cayman	S, Hybrid, Black Edition, R	2006- <b>14</b> ,9999	02
042	Panamera	S, 4, 4S, Turbo, Turbo S, Hybrid, GTS, S, Platinum Edition, Executive	2010- <b>14</b> ,9999	05
043	918	<b>Spyder, Weissach Pkg</b>	2013- <b>14,9999</b>	01,02,09
398	Other (automobile)	Spyder, Speedster (prior to '65), 356 (A,B,C) Grund, America, Super, 1500	1948- <b>2014</b> , 9999	01-03,05,09
399	Unknown (automobile)		1948- <b>2014</b> , 9999	01-03,05,09

MAKE:		Porsche (Cont.)	(45)	(PORS)	
Model	Codes	Includes	Model Years	Body Types	
<b>LIGHT TRUCKS</b>					
401	<i>Macan</i>	<b>S, S Diesel, Turbo</b>	<b>2014</b>	<b>14</b>	
421	Cayenne	Turbo, S, Titanium, GTS (PD Edition), Transsyberia, Hybrid, Diesel	2003-14,9999	15	
499	<i>Unknown (light truck)</i>		<b>2003-14,9999</b>	<b>14, 15</b>	
999	Unknown (PORSCHE)		1965- <b>2014</b> , 9999	99	

MAKE:		Renault	(46)	(RENA)	
Model	Codes	Includes	Model Years	Body Types	
<b>AUTOMOBILES</b>					
031	LeCar	R-5, R5TL, GTL, TL, DLX	1976-83,9999	02-05,07-09	
032	Dauphine/10/R-8 Caravelle	all models, R-1190, R8 -1100	1955-71,9999	01,02,04,08,09	
033	12	R-12L, R-12TL/GTL	1972-77,9999	04,06,09	
034	15	R-15TL	1973-76,9999	02,03,09	
035	16	R-16, R-1152	1969-72,9999	06	
036	17	R17, Gordini Coupe, R17TL	1972-80,9999	01,02,09	
037	18i/Sportwagon	R18i, Deluxe, DLX	1981-86,9999	04,06,09	
038	Fuego	TL, TS, GTL, GTS, Turbo	1982-85,9999	02, 03,09	
039	Alliance/Encore GTA, Convertible	L, DL, Limited, X-37	1983-87,9999	01-05,07-09	
041	Alpine	GT, GTA Coupe, Not imported to U.S.	1971-90,9999	02,03,09	
044	Medallion **	DL, LX	1987	04,06,09	
045	Premier**		1987	04	
398	Other (automobile)	Juvaquatre, 4CV, Fregate, Domaine	1946-90,9999	01-11	
399	Unknown (automobile)		1946-90,9999	01-11	

\*\* Note: Medallion and Premier listed under Eagle after 1987.

MAKE:		Saab	(47)	(SAA)	
Model	Codes	Includes	Model Years	Body Types	
<b>AUTOMOBILES</b>					
031	99/99E/900	S,GL, GLE, L, LE, 2CM, 4CM Turbo, Cabriolet, 2EM, 4EM, CM, SE	1969-98,9999	01-05,07-09	
032	Sonnett	II, III, 97	1967-74,9999	02	
033	95/96	V-4, M, S, M-S, Special	1959-73,9999	02,06,09	
034	9000	S, Turbo, CS, CD, CDE, E, AERO,CSE	1985-98,9999	04,05,09	

<b>MAKE:</b>	<b>Saab (Cont.)</b>	<b>(47)</b>	<b>(SAA)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
035	9-3/9-3x	SE (Hot), Viggen, Linear Arc, Vector, Aero, 2.0T, SportCombi, Combi, Estate	1999-2012, 9999	01,03-07,09
036	9-5	SE, Aero, 2.3T, Set, Arc, Linear, Aero, SportCombi, 2.5T, Turbo X, Vector	1999-2012, 9999	02,04,06,08,09
037	9-2x	Linear, Aero	2005-06,9999	05
038	9-4x		2009-12,9999	06
398	Other (automobile)	Monte Carlo 850, GT850, GT750, 92/93	1950-2012, 9999	01-09
399	Unknown (automobile)		1950-2012, 9999	01-09
<b>LIGHT TRUCKS</b>				
401	9-7x	Arc, Linear, 4.2i, 5.3i, Altitude Edition, Aero	2005-11,9999	14
999	Unknown (SAAB)		1950-2012, 9999	49
<b>MAKE:</b>	<b>Saturn</b>	<b>(24)</b>	<b>(STRN)</b>	
001	SL	SL, SL1, SL2	1991-2002, 9999	04
002	SC	SC1, SC2	1991-2002, 9999	02, 09,
003	SW	SW1, SW2	1993-2001, 9999	06
004	EV1/EGV1*	Electric Vehicle (Gen II)	1997-2003, 9999	02
005	LS	LS, LS1, LS2, L100/L200/ L300, L300-1/2/3	2000-05,9999	04
006	LW	LW1, LW2, LW200/ LW300- 1/2/3	2000-04,9999	06
007	Ion	Quad-coupe, I3, Red Line	2003-07,9999	04, 09,
008	Sky	Red Line	2007-10,9999	01
009	Aura	XE, XR, Hybrid	2007-10,9999	04
010	Outlook	XE, XR	2007-10,9999	06
011	Astra	XE, XR, Sport	2008-10,9999	03,05,
398	Other (automobile)		1991-2010, 9999	02-06,
399	Unknown (automobile)		1991-2010, 9999	02-06,

MAKE: Saturn (Cont.)		(24)	(STRN)	
Model	Codes	Includes	Model Years	Body Types
<b>LIGHT TRUCKS</b>				
401	Vue	Red Line, 4, V6, Green Line, XE, XR-4, XR-V6	2002-10,9999	14
441	Relay	2, 3	2005-07,9999	20
499	Unknown (light truck)		2002-10,9999	14,20
999	Unknown (SATURN)		1991-2010, 9999	49
MAKE: Scion		(67)	(SCIO)	
Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES</b>				
031	xB (2012 on. See Toyota for 2004-2011) tC	1.0, 2.0 Series, Limited Edition, 10 Anniversary	2012- <b>14</b> ,9999	06
032	(2012 on. See Toyota for 2005-2011)	1.0 Series, Limited Edition, 8.0 Series, 10 Anniversary	2012- <b>14</b> ,9999	03
033	xD (2012 on. See Toyota for 2007-2011)	Limited Edition, 10 Anniversary	2012- <b>14</b> ,9999	05
034	iQ (2012 on. See Toyota for 2010-2011)	10 Anniversary	2012- <b>14</b> ,9999	03
035	FR-S	10 Anniversary	2013- <b>14,9999</b>	02
398	Other (automobile)		2012- <b>14</b> ,9999	02, 03, 05, 06,09
399	Unknown (automobile)		2012- <b>14</b> ,9999	02, 03, 05, 06,09
MAKE: Smart		(65)	(SMRT)	
Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES</b>				
031	Fortwo	Pure, Passion, BRABUS, Electric Car	2008- <b>14</b> ,9999	01,02,09
398	Other (automobile)		2008- <b>14</b> ,9999	01,02,09
399	Unknown (automobile)		2008- <b>14</b> ,9999	01,02,09
MAKE: Sterling		(61)	(STLG)	
Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES</b>				
031	827	Li, SL, S, SLI	1987-91,9999	04,05,09
398	Other (automobile)	825, S, SL, Oxford Edition	1987-91,9999	04,05,09
399	Unknown (automobile)		1987-91,9999	04,05,09

<b>MAKE:</b>	<b>Subaru</b>	<b>(48)</b>	<b>(SUBA)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	Loyale (1990 on)/DL/ FE/G/GF/GL/GLF/ STD	4-wheel drive, S, 1300, 1400, 1600, 1800, A15L, A44L, Touring Wagon, Turbo	1972-94,9999	02-09
032	Star	FF -1 Star, 1100	1971	02,04,06,08,09
033	360		1958-70,9999	02
034	Legacy/Outback(prior to 2003 only; see 045 for 2003 on)	L, LS, LSI, 4WD, Outback (Limited, Ltd, Sport, VDC, L.L. Bean Edition), GT, Brighton, Sport Utility Sedan (Ltd.), 30 <sup>th</sup> Anniv. Outback, H-6, 35 <sup>th</sup> Anniv., 2.5, 2.5i/GT, spec. B, 3.0R, Limited, Premium, 3.6R	1990- <b>2014</b> , 9999	04-06,09
035	XT/XT6	4WD Turbo, convertible, DL, GL	1985-91,9999	01,02,09
036	Justy	DL, GL, 4WD	1987-94,9999	03,05,07,09
037	SVX	LS, LSL, XR, Lsi	1992-97,9999	02
038	Impreza	L, LS, Brighton, Outback Sport, RS, L-Sport, LX, 2.5i/RS/S/TS/ GT, WRX, WRX Sport/STI/SS/ TR, Limited Edition, Premium, SE, STI, STI-S, 2.0i (Premium, Limited, Sport)	1993- <b>2014</b> , 9999	02,04-06,08,09
039	RX		1986-89,9999	03,04,09
043	Brat	DL, GL	1978-87,9999	10
044	Baja	Sport, Turbo	2003-07,9999	10
045	Outback (2003 on; see 034 for prior to 2003)	H6-VDC, 35 <sup>th</sup> Anniversary Edition, 2.5, 2.5i, 2.5XT, 3.0R, Special Edition, VDC Limited, Sport, L.L. Bean Edition, 3.0R. Premium, 3.6R	2003- <b>14</b> ,9999	04-06,09
046	BRZ	Premium, Limited	2013- <b>14,9999</b>	03
398	Other (automobile)		1968- <b>2014</b> , 9999	01-10
399	Unknown (automobile)		1968- <b>2014</b> , 9999	01-10
<b>LIGHT TRUCKS</b>				
401	Forester	L, S, 2.5X, 2.5XS, 2.5XT, L.L. Bean Edition, Limited (Plus), Sport, Premium, Touring	1997- <b>2014</b> , 9999	14
402	B9 Tribeca	Base, Limited, Special Edition, Premium, Touring, 3.6R	2006- <b>14,9999</b>	14
403	XV Crosstrek	2.0i Premium/Limited	2013- <b>14,9999</b>	14
499	Unknown (light truck)		1997- <b>2014</b> , 9999	14
999	Unknown (SUBARU)		1958- <b>2014</b> , 9999	49

<b>MAKE:</b>	<b>Suzuki</b>	<b>(53)</b>	<b>(SUZI)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	Swift/SA310	Gti, GTX, GLX, GA, GT, GL	1989-2001, 2010,9999	03-05,07,09
032	Esteem	GL, GLX, GLX+	1995-2002, 9999	04,06,09
033	Aerio	S,G,LX,SX (Wagon), Luxury	2002-07,9999	04,06,09
034	Forenza	S, LX, EX, Premium, Convenience, Popular	2004-08,9999	04,06,09
035	Verona	S, LX, EX, Luxury	2004-06,9999	04
036	Reno	S, LX, EX, Premium, Convenience	2005-08,9999	05
040	SX4/SX4 Crossover	Base, Sport, Convenience, Touring, L, S, SD, SE, GTS, LE, SportBack, JX, Premium, Tech Value Package	2007-13,9999	04,05,09
041	Kizashi	GTS, S, SE, SLS, Sport	2010-13,9999	04
398	Other (automobile)	800 Fronte, Alto	1981-2013, 9999	03-07,09
399	Unknown (automobile)		1981-2013, 9999	03-07,09
<b>LIGHT TRUCKS</b>				
401	Samurai	Standard, Deluxe, JL	1986-96,9999	14
402	Sidekick/Vitara/ Vitara V6	JS, JX, JLX, JLS, Sport, Grand Vitara (1999-2002 only; see model 404 for 2003 on) (JS, JLX, JLS, Ltd.) XL-7 (2002 only; see model 405 for 2003 on) LX	1989-2004, 9999	14
403	X-90		1996-98,9999	14
404	Grand Vitara (2003 on; see model 402 for models prior to 2003)	JS, JLX, JLS, Limited, GX, LX, XV6, Premium, Xsport, Luxury, Special Edition, Ultra Adventure Edition	2003-13,9999	14
405	XL-7 (2003 on; see 402 for 2002 model year)	Standard, Touring, Limited, GX, LX, Premium, Luxury	2003-09,9999	14
481	Equator	Comfort, Premium, Sport, RMZ-4	2009-13,9999	31
498	Other (light truck)	Jimmy	1981-2013, 9999	14, 31
499	Unknown (light truck)		1981-2013, 9999	14, 31

<b>MAKE:</b>	<b>Suzuki (Cont.)</b>	<b>(53)</b>	<b>(SUZI)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>MOTORCYCLES</b>				
701	0-50cc		1970-2013, 9999	80,81,83,88,89
702	51-124cc		1970- <b>2014</b> , 9999	80,81,83,88,89
703	125-349cc		1969- <b>2014</b> , 9999	80,83,88,89
704	350-449cc		1970-93; 2000- <b>14</b> ,9999	80,83,88,89
705	450-749cc		1969- <b>2014</b> , 9999	80,83,88,89
706	750cc-over		1970- <b>2014</b> , 9999	80,83,88,89
709	Unknown cc		1969- <b>2014</b> , 9999	80-83,88,89
<b>ALL TERRAIN VEHICLES</b>				
731	0-50cc	includes all ATVs designed solely for off-road use and have 3 or 4 wheels.	1969-87; 2002-04,9999	90
732	51-124cc		1969-2004, 9999	90
733	125-349cc		1969- <b>2014</b> , 9999	90
734	350cc or greater		1969-93; 1998- <b>2014</b> , 9999	90
739	Unknown cc		1969- <b>2014</b> , 9999	90, 97*
999	Unknown (SUZUKI)		1969- <b>2014</b> , 9999	49, 99

\* Refer to Body Type attribute 97 (Other Vehicle Type) for remarks regarding side-by-side ATVs

<b>MAKE:</b>	<b>Toyota</b>	<b>(49)</b>	<b>(TOYT)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	Corona	Mark II, Custom, 1900, 2000, Deluxe	1966-83,9999	02,04,06,08,09
032	Corolla	1100, 1200, 1600, SR-5, LE, DX, CE, Deluxe, Custom, FX, FX16, Sport, GTS, VE, S, XRS, XLE, CE, L, Special Edition, <b>LE Eco</b>	1969- <b>2014</b> , 9999	02-09
033	Celica	1900, 2000, GT, ST, GTS, VE, GT-S	1971-2006, 9999	01-03,09

<b>MAKE:</b>	<b>Toyota (Cont.)</b>	<b>(49)</b>	<b>(TOYT)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
034	Supra	Celica Supra, Soarer, Turbo	1979-98,9999	03
035	Cressida		1978-92,9999	04-06,09
036	Crown	2300, 2600, Toyopets	1958-71,9999	02,04,06,08,09
037	Carina	2000	1972-73,9999	02
038	Tercel	Corolla Tercel, 4WD, EZ, DX, LE, DLX, CE	1980-99,9999	02-09
039	Starlet		1981-84,9999	03
040	Camry	LE, Deluxe, XLE, DLX, SE, All-Trac, CE, SE, Limited Edition, L, Hybrid (CVT/LE/XLE)	1983- <b>2014</b> , 9999	02,04-06,08,09
041	MR-2/MR Spyder	Super Charged	1984-95; 2000-07,9999	01,02,09
042	Paseo	Turbo, T-bar	1992-97,9999	01,02,09
043	Avalon	XL, XLS, Limited, Touring, XLE, Hybrid, Premium	1995- <b>2014</b> , 9999	04
044	Solara	Camry Solara (SE, SLE, Sport)	1999-2009, 9999	01,02,09
045	ECHO		2000-05,9999	02,04,09
046	Prius *	*Electric hybrid, Touring, II, III, IV, V(2/3/5), (CVT), 3 <sup>rd</sup> Generation (2/3/4/5), Plug-In (Base/Advanced), c (1/2/3/4) Base, XR, XRS, STD, S, SD, L RS 1.0 1.0, 2.0 Series	2001- <b>14</b> ,9999	03-05,09
047	Matrix		2003-13,9999	06
048	Scion xA		2004-06,9999	05
049	Scion xB (2004-2011 only. See 67-031 for 2012 on.)	1.0, 2.0 Series	2004-11,9999	06
050	Scion tC (2005-2011 only. See 67-032 for 2012 on.)	1.0 Series	2005-11,9999	03
051	Yaris	Liftback, S, CE, HB, LB, LE, RS, SE, L	2007- <b>14</b> ,9999	03-05, 09
052	Scion xD (2007-2011 only. See 67-033 for 2012 on.)		2007-11,9999	05
053	Venza	LE, XLE, Limited	2009- <b>14</b> ,9999	05
054	Scion iQ (2010-2011 only. See 67-034 for 2012 on.)		2010-11,9999	04
398	Other (automobile)	2000 GT Coupe (1960s), Sports 800, Vipor, Tiara	1960- <b>2014</b> , 9999	01-10
399	Unknown (automobile)		1960- <b>2014</b> , 9999	01-10

<b>MAKE:</b>	<b>Toyota (Cont.)</b>	<b>(49)</b>	<b>(TOYT)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS</b>				
401	4-Runner	SR5, Limited, Sport, Trail	1984- <b>2014</b> , 9999	14
402	RAV4*	L, LE, EVs-electric*, Sport, Limited, Hybrid, <b>XLE</b>	1996- <b>2014</b> , 9999	14
403	Highlander	Limited, Hybrid, Sport, SE, Plus	2001- <b>14</b> , 9999	14
404	FJ Cruiser	Baja 1000, FJ, SE, TRD, AT, MT	2007- <b>14</b> , 9999	14
421	Land Cruiser	4WD	1964- <b>2014</b> , 9999	15
422	Sequoia	SR5, Limited, Platinum,	2001- <b>14</b> , 9999	15
441	Minivan (1984-90)/ Previa (1991 on)	LE, Cargo, DX, XLE	1984-97, 9999	20
442	Sienna	CE, LE, XLE, Symphony, Limited, SE, L	1998- <b>2014</b> , 9999	20
471	Pickup	SR-5, Extra Cab, Sport, LN44, Chinook, Wonder Wagon	1974-95, 9999	30-32, 40, 42
472	Tacoma	SR5, Xtracab, Limited, PreRunner, Side Step, Double Cab, S-Runner, 2.7L, 4.0L X-Runner, T/X, T/X Pro, Access Cab	1995- <b>2014</b> , 9999	30, 32, 40, 42
481	T-100	DX, SR5, Limited, Xtracab	1993-98, 9999	31, 32, 40, 42
482	Tundra	SR5 (Access Cab), LTD, (Access Cab), Double Cab, Darrell Waltrip Special Edition, CrewMax, 4.0L, 4.6L, 5.7L, Limited, <b>SR</b>	1999- <b>2014</b> , 9999	31, 32, 40, 42
498	Other (light truck)		1970- <b>2014</b> , 9999	14, 15, 19, 20, 29, 30, 31, 32, 39
499	Unknown (light truck)		1973- <b>2014</b> , 9999	14, 15, 19, 20, 30-32, 39, 40, 42, 48, 49
999	Unknown (TOYOTA)		1966- <b>2014</b> , 9999	49

<b>MAKE:</b>	<b>Triumph</b>	<b>(50)</b>	<b>(TRIU)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	Spitfire	I, II, III, IV, 1500	1962-81, 9999	01, 02, 09
032	GT-6	MK3	1967-73, 9999	01, 02, 09
033	TR4	TR2, TR3, TR4A	1958-68, 9999	01, 02, 09
034	TR6		1969-76, 9999	01, 02, 09

<b>MAKE:</b>	<b>Triumph (Cont.)</b>	<b>(50)</b>	<b>(TRIU)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
035	TR7/TR8		1975-81,9999	01,02,09
036	Herald	Vitesse	1960-74,9999	01,02,06,09
037	Stag		1971-73,9999	01,02,09
398	Other (automobile)	1800,2000,Mayflower, Renown,1200	1946-81,9999	01,02,04,08,09
399	Unknown (automobile)		1946-81,9999	01,02,04,08,09
<b>MOTORCYCLES</b>				
701	0-50cc		1965-83,9999	80
702	51-124cc		1965-83,9999	80
703	125-349cc		1950-74,9999	80
704	350-449cc		1950-71,9999	80
705	450-749cc		1950- <b>2014</b> , 9999	80
706	750cc or greater		1950- <b>2014</b> , 9999	80
709	Unknown cc		1950- <b>2014</b> , 9999	80
799	Unknown (motored cycle)		1950- <b>2014</b> , 9999	80
999	Unknown (TRIUMPH)		1950- <b>2014</b> , 9999	99

<b>MAKE:</b>	<b>Volkswagen</b>	<b>(30)</b>	<b>(VOLK)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES</b>				
031	Karmann Ghia		1954-75,9999	01,02,09
032	Beetle 1300/1500	Flat windshield, 94.5 WB	1948-77,9999	01,02,09
033	Super Beetle	Curved windshield 95.3 WB	1971-80,9999	01,02,09
034	411/412	Squareback/Fastback	1971-74,9999	03,04,09
035	Squareback/Fastback	Type 3, 1600	1965-74,9999	02
036	Rabbit	L, GTI, Sport, LS, Custom, DL, Deluxe, S	1975-84, 2007-09,9999	01,03,05-07,09
037	Dasher		1974-81,9999	03,05-07,09
038	Scirocco	16V	1975-88,9999	02

<b>MAKE:</b>	<b>Volkswagen (Cont.)</b>	<b>(30)</b>	<b>(VOLK)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
040	Jetta/Jetta SportsWagen	III, GL (TDI, 1.9L, 2.0L), GLI (VR6), GLS (1.8T, 1.8L/1.9L/ 2.0L/2.8L/ TDI/VR6), GT, Carat, TDI, GLX (VR6/ 2.8L), Turbo Diesel, 2.5L Wolfsburg Edition, S/SE/ SEL, Value Edition, 2.0T, 3.6, <b><i>Autobahn, Hybrid, Premium</i></b>	1981- <b>2014</b> , 9999	02,04,06,08,09
041	Quantum	Synco	1982-88,9999	02,04,06,08,09
042	Golf/Cabriolet/Cabrio/ GTI/ GLI	Golf II, GTI (GLS, GLX 1.8T/2.8L), GT, GL(1.8T/ VR6/2.0L/1.9L/ TDI), Golf III, GLS (1.8T/1.8L/1.9L/ 2.0/TDI), Wolfsburg, Cabrio (GL, GLS, GLX), 20 <sup>th</sup> Anniversary, R32, MkV, Convenience, R, <b>2.5L, Driver's Edition</b>	1985- <b>2014</b> , 9999	01,03,05-09
043	Rabbit Pickup	car-based pickup	1980-83,9999	10
044	Fox	GL	1987-94,9999	02,04,06,08,09
045	Corrado		1989-94,9999	02
046	Passat (CC - 2008 thru 2011; see 052 for 2012 on)	GL,GLS(1.8T,Synchro,V6), TDI,GLX(1.8T, 2.0T, W8, Synchro,V6), 4MOTION, 3.6 GL, Value Edition, CC, Highline, Komfort, 2.5 (S/SE), <b><i>Wolfsburg Edition</i></b>	1990- <b>2014</b> , 9999	04,06,09
047	New Beetle	GL GLS TDI, 1.8T/1.8L/ 1.9L/2.0L/2.5/2.5L Syncro/ V6, GLX (1.8T), Turbo, Turbo S, Fender Edition, Sun and Sound, R-Line, <b><i>GSR</i></b>	1998-2010, 2012 - <b>2014</b> , 9999	01,03,09
048	Phaeton	3.2L, 4.2L, V6, V8,W12	2002-11,9999	04
051	Eos	2.0T, 3.2L, Executive, Komfort, Luxury, Turbo, VR6, Sport	2006- <b>14</b> ,9999	01
052	CC (For 2012 on. See model 046 for 2008-2011.)	Luxury, Sport, Sport Plus, VR6, R-Line	2012- <b>14</b> ,9999	04
398	Other (automobile)		1965- <b>2014</b> , 9999	01-10
399	Unknown (automobile)		1956- <b>2014</b> , 9999	01-10

MAKE:		Volkswagen (Cont.)	(30)	(VOLK)
Model	Codes	Includes	Model Years	Body Types
<b>LIGHT TRUCKS</b>				
401	The Thing (181)		1973-75,9999	14
402	Tiguan	S, SE, SEL, <b>R-Line</b>	2008- <b>14</b> ,9999	14
421	Touareg/Touareg 2	V6, V8, V10, VR6 FSI, Lux, Executive, <b>Hybrid</b>	2003- <b>14</b> ,9999	15
441	Vanagon/Camper	Bus, Kombi, Van	1955-91,9999	20
442	Eurovan	GLS, MV, Camper, Weekender Package	1992-04,9999	20
443	Routan	S, SE, SEL Premium/RSE	2009-13,9999	20
498	Other (light truck)		1967- <b>2014</b> , 9999	14,15,20
499	Unknown (light truck)		1965- <b>2014</b> , 9999	14,15,20,49
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1965- <b>2014</b> , 9999	<b>92,93,97</b>
999	Unknown (VOLKSWAGEN)		1956- <b>2014</b> , 9999	49

MAKE:		Volvo	(51)	(VOLV)
Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES</b>				
031	122	S	1958-68,9999	02,04,06,08,09
032	140/142/144/145 *	S, E, GL, GLS, Deluxe	1968-74,9999	02,04,06,08,09
033	164	S, E	1970-75,9999	04
034	240 series*/DL/GL/GLT	242, 244, 245, DL, GL, GLT, Deluxe	1975-93,9999	02,04,06,08,09
035	260 series/GLE	264,265,262, c, Volvo Coupe, Volvo Diesel	1976-82,9999	02,04,06,08,09, 12
036	1800	E, S, ES, P1800	1960-73,9999	02,06,09
037	PV544	PV444	1947-65,9999	04,06,09
038	760/780	GLE, Turbo, Bertone Coupe	1983-92,9999	02,04,06,08,09, 12
039	740	GLE, GT, Turbo, GL, SE	1983-92,9999	04,06,09
040	940	GLE, Turbo, SE	1991-95,9999	04,06,09,12
041	960		1992-97,9999	04,06,09,12
042	850	GLT, Turbo, T-5, GTAS, GTMS Cross Country	1993-97,9999	04,06,09

<b>MAKE:</b>	<b>Volvo (Cont.)</b>	<b>(51)</b>	<b>(VOLV)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
043	70 Series ( <i>For XC70 for 2014 on, use model code 402</i> )	C70 (LT, HT,T5), S70 (GLT, T5, AWD) V70 (R, SC Cross Country, GLT, T5, M, 2.4T, 2.4, 2.5T, T6, R, 3.2) LPT, HPT. XC70	1998-2013, 9999	01,02,04,06,09
044	90 Series	S90, V90	1998	04,06,09
045	80 Series	S80 (2.9, T6, Executive, Premier) 2.5, 2.5T, 3.2, V8	1999- <b>2014</b> , 9999	04
046	40 Series	S40,V40,LSE, 2.5i, T5, 2.4i, R-Design	2000-11,9999	04,06,09
047	60 Series	S60 (2.4T, 2.4, 2.5 AWD, T5), 2.4M, 2.5T, R, T5, T6, R-Design	2001- <b>14</b> ,9999	04
048	V50	2.4i, T5, R-Design	2005-11,9999	06
049	C30	1.0, 2.0, T5, R-Design	2008-13,9999	03
050	XC60	3.2, T6, R-Design	2008- <b>14</b> ,9999	06
<b>051</b>	<b>V60</b>	<b>T5, T6</b>	<b>2014</b>	<b>06</b>
398	Other (automobile)		1958- <b>2014</b> , 9999	01-12
399	Unknown (automobile)		1958- <b>2014</b> , 9999	01-12
<b>LIGHT TRUCKS</b>				
401	XC90	2.5T(AWD), T6(AWD), V8, 3.2, R-Design, SVR7	2003- <b>14</b> ,9999	14
<b>402</b>	<b>XC70 (For 2014 on. For prior to 2013, use model code 043)</b>	<b>3.2, T6</b>	<b>2014</b>	<b>14</b>
<b>499</b>	<b>Unknown (light truck)</b>		<b>2003-14,9999</b>	<b>14</b>
<b>MEDIUM/HEAVY TRUCKS</b>				
881	Medium/Heavy – CBE		1981-93; 1996- <b>2014</b> , 9999	60-64,66,78
882	Medium/Heavy – COE low entry		1981-93; 1996-2004, 9999	60-64,66,78
883	Medium/Heavy – COE high entry		1981-93; 1996-2004, 9999	60-64,66,78
884	Medium/Heavy – Unknown engine location		1981-93; 1996- <b>2014</b> , 9999	60-64,66, 71,72,78
890	Medium/Heavy – COE entry position unknown		1981-93; 1996- <b>2014</b> , 9999	60-64,66,78

MAKE:		Volvo (Cont.)	(51)	(VOLV)
Model	Codes	Includes	Model Years	Body Types
<b>MEDIUM/HEAVY TRUCKS (Cont.)</b>				
898	Other (medium/heavy truck)		1981-93; 1996- <b>2014</b> , 9999	60-64,66, 71,72,78
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1981- <b>2014</b> , 9999	50-52,58,59
<b>983</b>	<b>Bus: Flat front, rear engine</b>		<b>2014</b>	<b>50-52,58,59</b>
988	Other (bus)		1965- <b>2014</b> , 9999	50-52,58,59
989	Unknown (bus)		1965- <b>2014</b> , 9999	50-52,58,59
** Use "981" (bus) if the frontal plane or the engine location is unknown.				
998	Other (Vehicle)		1958- <b>2014</b> , 9999	92, 93, 97
999	Unknown (VOLVO)		1958- <b>2014</b> , 9999	49,79,99

MAKE:		Yugo	(57)	(YUGO)

MAKE: Other Domestic Manufacturers (29)				
Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES</b>				
001	Studabaker/Avanti	Lark, Gran Turismo, Hawk, Cruiser, all associated subseries, light pick-up, Studebaker XUV/XUT, Lister	1940-91; 2001-07,9999	01,02,04,06, 08,09,16,31,39
002	Checker	Marathon, Superba, Taxi, Aerobus	1965-82,9999	04,06,09,12
003	Panoz	Esperante (Magnussen Edition), GT, GTS, GTLM, JRD, Abruzzi, <b>Roadster</b> , <b>GTR1</b>	2000- <b>14</b> ,9999	01,02,09
004	Saleen	S7, S281, 435S, S302	2001- <b>14</b> ,9999	02
<b>005</b>	Tesla	Roadster (Base, Sport) Model S (Base, Signature, Performance)	2008- <b>14</b> ,9999	01, 04, 09

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**MAKE: Other Domestic Manufacturers (29)**

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**AUTOMOBILES**

398	Other (automobile)	Desoto, Excaliber, Stutz, FiberFab, Hudson, Packard, Consulier, Gatsby, Auburn, Phaeton, Citicar, Clenet	1930-91,9999	01-13
399	Unknown Make		1940- <b>2014</b> , 9999	01-13,16,39

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**MAKE: Other Import (69)**

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Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES</b>				
031	Aston Martin	Lagonda, Vantage, Volante, Saloon, DB Mark III, DB4, DB4GT, DB5, DB6, DB7 (Heritage/Vantage/Volante), V12 (Vanquish S/Zagato/ Vantage), V8(Vantage/ Vantage S), DB9, Rapide (S), DBS, Cygnet, Carbon Black, One-77, Virage (Coupe/Volante), DBS (Coupe/Volante), <b>CC100</b>	1950- <b>2014</b> , 9999	01-09
032	Bricklin		1965-91,9999	02
033	Citroen		1965-91,9999	02-09
034	DeLorean		1981-83,9999	02
035	Ferrari	F355 (Berlinetta, GTS, Spider, F1), F430, F456 (GTA, M, GT, MGTA), F550 (Maranello, Barchetta Pininfarina), 360/430 (Spider, Modena, Challenge) Maranello, Berlinetta, MGT (Vintage), Enzo, Challenge Stradale, 575M, 612 Scaglietti, Superamerica, 599 GTB/GTO, California, 418 Italia, FF, SA Aperta, 458 (Spider/Italia), F12 Berlinetta, FF	1965- <b>2014</b> , 9999	01-05,07-09
036	Hillman		1965-91,9999	01-09
037	Jensen	Healy-Interceptor, 541R	1965-91,9999	01-05,07-09

<b>MAKE:</b> Other Import (Cont.)		<b>(69)</b>		
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>AUTOMOBILES (Cont.)</b>				
038	Lamborghini	Countach, 5000S, Jalpa, Diablo, Miura, Murciélago (LP640), Galladoro, LP 550-2/560-4/570-4/670-4/700-4, CP, Aventador (J), Sesto Elemento, Spyder, Superlegga, Aventador, Gallardo, <b>Veneo</b>	1965- <b>2014</b> , 9999	01,02,04,08,09
039	Lotus	Europe, Espirit (V8, GT-3, V8-GT) Elise, Exige, Evora (Range/GTE) , California, Club Racer, Sport, 2-Eleven, Black, Bespoke	1967- <b>2014</b> , 9999	01,02,04,08,09
040	Maserati	Biturbo, Ghibli, 3200 GT, Quattroporte, Spyder GT, Sports GT, Executive GT, 90 <sup>th</sup> Anniversary, MC12, GranSport, GranTurismo, GranCabrio, Stradale, Kubang, Sport, MC, S, GTS, <b>S Q4</b>	1965-99; 2002- <b>14</b> , 9999	01-05,07-09
041	Morris	Minor,	1965-91, 9999	01-10
042	Rolls Royce/Bentley	Rolls Royce: Cloud/Shadow series, Silver Spur, Silver Dawn, Silver Spirit, Silver Seraph, Corniche, Park Ward), Phantom (Drophead), Ghost; Bently: (Arnaze, Azure, Continental (GT), Mulliner), Brooklands, Goodwood, EWB, 4, Mulsanne, Flying Spur, Super Sports	1926- <b>2014</b> , 9999	01,02,04,08,09
044	Simca		1965-91, 9999	01-09
045	Sunbeam		1965-91, 9999	01,02,04,08,09
046	TVR		1965-91, 9999	01,02,09
048	Desta		1985-99, 9999	14,15,19
049	Reliant		1960-91, 9999	01-09
052	Bertone	X/19	1989-91, 9999	01,02,09
053	Lada		1965-91, 9999	01-09
054	Mini-Cooper	Mark I,II,III, S, SE, Sport, MC40, Traveller, John Cooper Works, Clubman, Countryman, Paceman, Coupe, All 4	1961-74; 2002- <b>14</b> , 9999	01,03,06,09

MAKE:		Other Import (Cont.)	(69)		
Model	Codes	Includes	Model Years	Body Types	
<b>AUTOMOBILES (Cont.)</b>					
055	Morgan (2003 on; Prior to 2003 see 398)	Aero 8, Plus 8, V6, Classic Range, AeroMax, 4/4 Sport, Super Sports Junior, Plus 4, 4 Seater, Aero, Eva GT, 3 Seater, 4/4, <b>Plus 8</b>	2003- <b>14</b> ,9999	01,02, 09	
056	Maybach	57, 57S, 62, 62S, Laduale, Zeppelin, Guard	2003- <b>14</b> ,9999	04	
057	Spyker	C8, Base, T, Laviolette, Aileron, Spyder, Double 12R, Double 12S, C12 Zagato, LM85, D	2005- <b>14</b> ,9999	01,02,09,17	
058	Koenigsegg	CC8S, CCR, CCX, CCXR, CCGT, Trevita, Agera, <b>CC8S</b> , Agera R/S, Special Edition	2007- <b>14</b> ,9999	01	
061	Mahindra	Scorpio (Lx, Sle, Vls, Vlx)	2010- <b>14</b> ,9999	14,30, 39	
062	Caterham	Classic, Roadsport, Academy, Superlight (R300/R400/R500), CSR	2011- <b>14</b> ,9999	01	
063	McLaren	MP4-12C	2011- <b>14</b> ,9999	01	
064	Bugatti	Veyron 164 (Grand Sport, Super Sport), Vitesse	2005- <b>14</b> ,9999	01,02, 09	
398	Other (automotive)	Morgan (Prior to 2003; 2003 on see 055), Singer, Gazelle, Fisker	1928- <b>2014</b> , 9999	01-13, <b>17</b>	
399	Unknown Make		1928- <b>2014</b> , 9999	01-10,19, <b>39</b>	

## MOTORED CYCLES

**Note:** Refer to Passenger Car section of this table for motored cycles produced by automobile manufacturers (BMW, Honda, Peugeot, Suzuki, Triumph)

MAKE: BSA		(70)	(BSA )	
Model	Codes	Includes	Model Years	Body Types
<b>MOTORCYCLES</b>				
701	0-50cc		1950-72,9999	80,81,83,88,89
702	51-124cc		1950-72,9999	80,81,83,88,89
703	125-349cc		1950-72,9999	80,83,88,89
704	350-449cc		1950-72,9999	80,83,88,89
705	450-749cc		1950-72,9999	80,83,88,89
706	750cc or greater		1950-72,9999	80,83,88,89
709	Unknown cc		1950-72,9999	80,83,88,89
MAKE: Ducati		(71)	(DUCA)	
Model	Codes	Includes	Model Years	Body Types
<b>MOTORCYCLES</b>				
701	0-50cc		1958-65,9999	80,81,88,89
702	51-124cc		1958-65,9999	80,81,88,89
703	125-349cc		1958-65,9999	80,88,89
704	350-449cc		1958-65,9999	80,88,89
705	450-749cc		1958-93; 1997-2014, 9999	80,88,89
706	750cc or greater		1958-2014, 9999	80,88,89
709	Unknown cc		1958-2014, 9999	80-83,88,89
MAKE: Harley-Davidson		(72)	(HD)	
Model	Codes	Includes	Model Years	Body Types
<b>MOTORCYCLES</b>				
701	0-50cc		1965-66,9999	80,81,88,89
702	51-124cc		1948-78,9999	80,81,88,89
703	125-349cc		1948-88,9999	80,88,89
704	350-449cc		1969-74,9999	80,88,89
705	450-749cc		1971-78,9999	80,88,89
706	750cc or greater		1932-2014, 9999	80,82,88,89
709	Unknown cc		1932-2014, 9999	80,82,88,89

MAKE:		Kawasaki	(73)	(KAWK)
Model	Codes	Includes	Model Years	Body Types
<b>MOTORCYCLES</b>				
701	0-50cc		1965-82,9999	80,81,83,88,89
702	51-124cc		1965- <b>2014</b> , 9999	80,81,83,88,89
703	125-349cc		1965- <b>2014</b> , 9999	80,83,88,89
704	350-449cc		1975-98; 2003-04; 2006- <b>14</b> ,9999	80,83,88,89
705	450-749cc		1972- <b>2014</b> , 9999	80,83,88,89
706	750cc or greater		1972- <b>2014</b> , 9999	80,83,88,89
709	Unknown cc		1965- <b>2014</b> , 9999	80-83,88,89
<b>ALL TERRAIN VEHICLES</b>				
731	0-50cc		2003- <b>14</b> ,9999	90
732	51-124cc	includes all ATVs designed solely for off-road use and have 3 or 4 wheels.	1970-88; 2003- <b>14</b> ,9999	90
733	125-349cc		1970- <b>2014</b> , 9999	90
734	350cc or greater		1970- <b>2014</b> , 9999	90
739	Unknown cc		1970- <b>2014</b> , 9999	90
<b>998</b>	<b>Other (Vehicle)</b>		1965- <b>2014</b> , 9999	91, 97*

\* Refer to Body Type attribute 97 (Other Vehicle Type) for remarks regarding side-by-side ATVs

MAKE:		Moto-Guzzi	(74)	(MOGU)
Model	Codes	Includes	Model Years	Body Types
<b>MOTORCYCLES</b>				
704	350-449cc		1965-76,9999	80,88,89
705	450-749cc		1965-87; 2004- <b>14</b> ,9999	80,88,89
706	750cc or greater		1965- <b>2014</b> , 9999	80,88,89
709	Unknown cc		1965- <b>2014</b> , 9999	80,88,89

MAKE: Norton (75) (NORT)

Model	Codes	Includes	Model Years	Body Types
<b>MOTORCYCLES</b>				
704	350-449cc		1950-76,9999	80,83,88,89
705	450-749cc		1950-76,9999	80,83,88,89
706	750cc or greater		1950-76,9999	80,83,88,89
709	Unknown cc		1950-76,9999	80,83,88,89
<b>MAKE:</b> Victory		(77)	<b>(VCTY)</b>	
Model	Codes	Includes	Model Years	Body Types
<b>MOTORCYCLES</b>				
706	750cc or greater		1998- <b>2014</b> , 9999	80,88,89
709	Unknown cc		1998- <b>2014</b> , 9999	80,88,89
998	Other (Vehicle)		1998- <b>2014</b> , 9999	97*
* Refer to Body Type attribute 97 (Other Vehicle Type) for remarks regarding side-by-side ATVs				
<b>MAKE:</b> Yamaha		(76)	<b>(YAMA)</b>	
Model	Codes	Includes	Model Years	Body Types
<b>MOTORCYCLES</b>				
701	0-50cc		1979- <b>2014</b> , 9999	80,81,83,88,89
702	51-124cc		1972- <b>2014</b> , 9999	80,81,83,88,89
703	125-349cc		1969- <b>2014</b> , 9999	80,83,88,89
704	350-449cc		1972- <b>2014</b> , 9999	80,83,88,89
705	450-749cc		1971- <b>2014</b> , 9999	80,83,88,89
706	750cc or greater		1974- <b>2014</b> , 9999	80,83,88,89
709	Unknown cc		1969- <b>2014</b> , 9999	80-83,88,89
<b>ALL TERRAIN VEHICLES</b>				
731	0-50cc	includes all ATVs designed solely for off-road use and have 3 or 4 wheels.	1965-91, 2005- <b>14</b> ,9999	90
732	51-124cc		1965- <b>2014</b> , 9999	90
<b>MAKE:</b> Yamaha (Cont.)		(76)	<b>(YAMA)</b>	

Model	Codes	Includes	Model Years	Body Types
<b>ALL TERRAIN VEHICLE (Cont.)</b>				
733	125-349cc		1965- <b>2014</b> , 9999	90
734	350cc or greater		1993- <b>2014</b> , 9999	90, 97*
739	Unknown cc		1965- <b>2014</b> , 9999	90
998	Other (Vehicle)	Snowmobiles, Golf Car	1965- <b>2014</b> , 9999	91, 95, 97*

\* Refer to Body Type attribute 97 (Other Vehicle Type) for remarks regarding side-by-side ATVs

## TRUCKS

<b>MAKE:</b>	<b>Brockway</b>	<b>(80)</b>	<b>(BROC)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>MEDIUM/HEAVY TRUCKS</b>				
881	Medium/Heavy – CBE		1965-77,9999	60-64,66, 71,72,78
882	Medium/Heavy - COE low entry		1965-77,9999	60-64,66, 71,72,78
883	Medium/Heavy - COE high entry		1965-77,9999	60-64,66, 71,72,78
884	Medium/Heavy – Unknown engine location		1965-77,9999	60-64,66, 71,72,78
890	Medium/Heavy – COE entry position unknown		1965-77,9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)		1965-77,9999	60-64,66, 71,72,78
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1965-77,9999	50-52,58,59
982	Bus: Front engine, Flat front		1965-77,9999	50-52,58,59
983	Bus: Rear engine, Flat front		1965-77,9999	50-52,58,59
988	Other (bus)		1965-77,9999	50-52,58,59
989	Unknown (bus)		1965-77,9999	50-52,58,59
** Use code "989"(bus) if the frontal plane or the engine location is unknown.				
<b>MOTOR HOME</b>				
850	Motor Home	Truck based	1965-77,9999	65,73
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1965-77,9999	92,93,97
999	Unknown (BROCKWAY)		1965-77,9999	99

<b>MAKE:</b>	<b>Diamond Reo or Reo</b>	<b>(81)</b>	<b>(DIAR)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>MEDIUM/HEAVY TRUCKS</b>				
881	Medium/Heavy – CBE	DC101,C116	1954-75,9999	60-64,66, 71,72,78
882	Medium/Heavy – COE low entry		1954-75,9999	60-64,66, 71,72,78
883	Medium/Heavy – COE high entry	C054-C088	1954-75,9999	60-64,66, 71,72,78
884	Medium/Heavy – Unknown engine location		1954-75,9999	60-64,66, 71,72,78
890	Medium/Heavy – COE entry position unknown		1954-75,9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)		1954-75,9999	60-64,66, 71,72,78
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1954-75,9999	50-52,58,59
982	Bus: Front engine, Flat front		1954-75,9999	50-52,58,59
983	Bus: Rear engine, Flat front		1954-75,9999	50-52,58,59
988	Other (bus)		1954-75,9999	50-52,58,59
989	Unknown (bus)		1954-75,9999	50-52,58,59
** Use code "989"(bus) if the frontal plane or the engine location is unknown.				
<b>MOTOR HOME</b>				
850	Motor Home	Truck based	1954-75,9999	65,73
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1954-75,9999	92,93,97
999	Unknown (DIAMOND REO or REO)		1954-75,9999	99

<b>MAKE:</b>	<b>Freightliner</b>	<b>(82)</b>	<b>(FRHT)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS</b>				
461	Sprinter/Advantage	2500 (HC/SHC), 3500 (HC/SHC)	2002- <b>14</b> ,9999	21,22,28,29
462	MT 35 Chassis		1985-2013, 9999	22, 40, 42
498	Other (light truck)		1985- <b>2014</b> , 9999	20-22,28,29
499	Unknown (light truck)		1985- <b>2014</b> , 9999	20-22,28,29
<b>MEDIUM/HEAVY TRUCKS</b>				
870	Medium Heavy Van-Based Vehicle	Sprinter	2002- <b>14</b> ,9999	55, 61-64
881	Medium/Heavy – CBE		1965- <b>2014</b> , 9999	60-64,66, 71,72,78
882	Medium/Heavy – COE low entry		1968-2013, 9999	60-64,66, 71,72,78
883	Medium/Heavy – COE high entry		1965-2013, 9999	60-64,66, 71,72,78
884	Medium/Heavy – Unknown engine location		1963-2013, 9999	60-64,66, 71,72,78
890	Medium/Heavy – COE entry position unknown		1965-2013, 9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)		1965- <b>2014</b> , 9999	60-64,66, 71,72,78
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1965- <b>2014</b> , 9999	50-52,58,59
982	Bus: Front engine, Flat front		1965- <b>2014</b> , 9999	50-52,58,59
983	Bus: Rear engine, Flat front		1965- <b>2014</b> , 9999	50-52,58,59
988	Other (bus)		1965- <b>2014</b> , 9999	50-52,58,59
989	Unknown (bus)		1965- <b>2014</b> , 9999	50-52,58,59
<b>MOTOR HOME</b>				
850	Motor Home	Truck based	1965- <b>2014</b> , 9999	65,73
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1963- <b>2014</b> , 9999	92,93,97
999	Unknown (FREIGHTLINER)		1963- <b>2014</b> , 9999	99

\*\* Use code "989"(bus) if the frontal plane or the engine location is unknown.

<b>MAKE:</b>		<b>(83)</b>		<b>(FWD )</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>	
<b>MEDIUM/HEAVY TRUCKS</b>					
881	Medium/Heavy – CBE		1965-2001, 9999	60-64,66, 71,72,78	
882	Medium/Heavy – COE low entry		1965-2001, 9999	60-64,66, 71,72,78	
883	Medium/Heavy – COE high entry		1965-2001, 9999	60-64,66, 71,72,78	
884	Medium/Heavy – Unknown engine location		1965-2001, 9999	60-64,66, 71,72,78	
890	Medium/Heavy – COE entry position unknown		1965-2001, 9999	60-64,66, 71,72,78	
898	Other (medium/heavy truck)		1965-2001, 9999	60-64,66, 71,72,78	
<b>BUSES</b>					
981	Bus**: Conventional (Engine out front)		1965-2001, 9999	50-52,58,59	
982	Bus: Front engine, Flat front		1965-2001, 9999	50-52,58,59	
983	Bus: Rear engine, Flat front		1965-2001, 9999	50-52,58,59	
988	Other (bus)		1965-2001, 9999	50-52,58,59	
989	Unknown (bus)		1965-2001, 9999	50-52,58,59	
** Use code "989"(bus) if the frontal plane or the engine location is unknown.					
<b>MOTOR HOME</b>					
850	Motor Home	Truck based	1965-2001, 9999	65,73	
<b>OTHER VEHICLE</b>					
998	Other (vehicle)		1965-2001, 9999	92,93,97	
999	Unknown (FWD)		1965-2001, 9999	99	

MAKE:		International Harvester/Navistar	(84)	(INTL) - (NAVI)	
Model	Codes	Includes	Model Years	Body Types	
<b>LIGHT TRUCKS</b>					
421	Scout	Scout II, Utility pickup, SS-2, Roadster, 800 series, Traveler, Terra Traveltop,	1962-80,9999	15	
431	Travelall	1010-1210, 100-200	1963-75,9999	16	
466	Multistop Van	Metro RM, MS1510, 120-160, MS1210	1960-84,9999	22,28,29	
481	Pickup	R-100-500, 900A-1500C/D, 1010-1510	1951-76,9999	31,33	
498	Other (light truck)		1960-84,9999	15,16,22,28,29	
499	Unknown (light truck)		1951-84,9999	15,16,19,22, 28,29	
<b>MEDIUM/HEAVY TRUCK</b>					
881	Medium/Heavy – CBE	Loadstar/Fleetstar, Paystar, CBE Transtar, 4200, S-series Mixer, 8100, 8500, 9100, 9200, 9300, 9400, 9900, CXT, RXT, MXT	1963- <b>2014</b> , 9999	60-64,66, 71,72,78	
882	Medium/Heavy – COE low entry	CO, VCO, DCO, 190-1950, Cargostar, LFM, 5370 (Garbage), CF500/600	1973- <b>2014</b> , 9999	60-64,66, 71,72,78	
883	Medium/Heavy – COE high entry	DCO, DCOT, UCO, VCOT, 405-series, COE Transtar, Unistar, Conco 707B, 9600	1961- <b>2014</b> , 9999	60-64,66, 71,72,78	
884	Medium/Heavy – Unknown engine location		1948- <b>2014</b> , 9999	60-64,66, 71,72,78	
890	Medium/Heavy – COE entry position unknown		1964- <b>2014</b> , 9999	60-64,66, 71,72,78	
898	Other (medium/heavy truck)	Fire truck - R140-R306, CO 8190	1955- <b>2014</b> , 9999	60-64,66, 71,72,78	
<b>BUSES</b>					
981	Bus**: Conventional (Engine out front)	R153-1853 Loadstar, 1603-1853	1953- <b>2014</b> , 9999	50-52,58,59	
982	Bus: Front engine, Flat front	173FC, 183FC	1972- <b>2014</b> , 9999	50-52,58,59	
983	Bus**: Rear engine, Flat front	183RE, 193RE-transit	1965- <b>2014</b> , 9999	50-52,58,59	
988	Other (bus)		1953- <b>2014</b> , 9999	50-52,58,59	
989	Unknown (bus)		1953- <b>2014</b> , 9999	50-52,58,59	
** Use code "989"(bus) if the frontal plane or the engine location is unknown.					
<b>MOTOR HOME</b>					
850	Motor Home	Truck based	1965- <b>2014</b> , 9999	65,73	

<b>MAKE:</b>	<b>International Harvester/Navistar (Cont.) (84)</b>	<b>(INTL) – (NAVI)</b>		
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1954- <b>2014</b> , 9999	<b>92,93,97</b>
999	Unknown (INTL. HARVESTER/ NAVISTAR)		1951- <b>2014</b> , 9999	79,99

<b>MAKE:</b>	<b>Kenworth</b>		<b>(85)</b>	<b>(KW)</b>
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>

<b>MEDIUM/HEAVY TRUCKS</b>				
881	Medium/Heavy – CBE	520, 540, T400, T600,T800, C500-550, W900, T300	1947- <b>2014</b> , 9999	60-64,66, 71,72, 78
882	Medium/Heavy – COE low entry	L700	1972- <b>2014</b> , 9999	60-64,66, 71,72,78
883	Medium/Heavy – COE high entry	K100, K100E, <b>K270</b> , K300, <b>K350</b>	1965- <b>2014</b> , 9999	60-64,66, 71,72,78
884	Medium/Heavy – Unknown engine location		1954- <b>2014</b> , 9999	60-64,66, 71,72,78
890	Medium/Heavy – COE entry position unknown		1964- <b>2014</b> , 9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)		1965- <b>2014</b> , 9999	60-64,66, 71,72,78

<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1965-2004, 9999	50-52,58,59
982	Bus: Front engine, Flat front		1965-2004, 9999	50-52,58,59
983	Bus: Rear engine, Flat front		1965-2004, 9999	50-52,58,59
988	Other (bus)		1965-2004, 9999	50-52,58,59
989	Unknown (bus)		1965-2004, 9999	50-52,58,59

\*\* Use code "989"(bus) if the frontal plane or the engine location is unknown.

<b>MOTOR HOME</b>				
850	Motor Home	Truck based	1965- <b>2014</b> , 9999	65,73
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1965- <b>2014</b> , 9999	<b>92,93,97</b>
999	Unknown (KENWORTH)		1965- <b>2014</b> , 9999	99

<b>MAKE:</b>		<b>(86)</b>		<b>(MACK)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>	
<b>MEDIUM/HEAVY TRUCKS</b>					
881	Medium/Heavy – CBE		1968- <b>2014</b> , 9999	60-64,66, 71,72,78	
882	Medium/Heavy – COE low entry		1965- <b>2014</b> , 9999	60-64,66, 71,72,78	
883	Medium/Heavy – COE high entry		1977- <b>2014</b> , 9999	60-64,66, 71,72,78	
884	Medium/Heavy – Unknown engine location		1956- <b>2014</b> , 9999	60-64,66, 71,72,78	
890	Medium/Heavy – COE entry position unknown		1972- <b>2014</b> , 9999	60-64,66, 71,72,78	
898	Other (medium/heavy truck)		1971- <b>2014</b> , 9999	60-64,66, 71,72,78	
<b>BUSES</b>					
981	Bus**: Conventional (Engine out front)		1965-2004, 9999	50-52,58,59	
982	Bus: Front engine, Flat front		1976-2004, 9999	50-52,58,59	
983	Bus: Rear engine, Flat front		1965-2004, 9999	50-52,58,59	
988	Other (bus)		1965-2004, 9999	50-52,58,59	
989	Unknown (bus)		1965-2004, 9999	50-52,58,59	
** Use code “989”(bus) if the frontal plane or the engine location is unknown.					
<b>MOTOR HOME</b>					
850	Motor Home	Truck based	1965- <b>2014</b> , 9999	65,73	
<b>OTHER VEHICLE</b>					
998	Other (vehicle)		1965- <b>2014</b> , 9999	92,93,97	
999	Unknown (MACK)		1965- <b>2014</b> , 9999	99	

<b>MAKE:</b>	<b>Iveco/Magirus*</b>	<b>(88)</b>	<b>(IVEC)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>MEDIUM/HEAVY TRUCKS</b>				
881	Medium/Heavy – CBE	LCF	1980-91,9999	60-64,66, 71,72,78
882	Medium/Heavy – COE low entry	FL, FS	1980-91,9999	60-64,66, 71,72,78
883	Medium/Heavy – COE high entry		1980-91,9999	60-64,66, 71,72,78
884	Medium/Heavy – Unknown engine location		1980-91,9999	60-64,66, 71,72,78
890	Medium/Heavy – COE entry position unknown		1980-91,9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)		1980-91,9999	60-64,66, 71,72,78
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1980-91,9999	50-52,58,59
982	Bus: Front engine, Flat front		1980-91,9999	50-52,58,59
983	Bus: Rear engine, Flat front		1980-91,9999	50-52,58,59
988	Other (bus)		1980-91,9999	50-52,58,59
989	Unknown (bus)		1980-91,9999	50-52,58,59
** Use code "989"(bus) if the frontal plane or the engine location is unknown.				
<b>MOTOR HOME</b>				
850	Motor Home	Truck based	1980-91,9999	65,73
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1980-91,9999	92,93,97
999	Unknown (IVECO/MAGIRUS)		1980-91,9999	99

\* Magirus stopped production in 1985; Iveco stopped production in 1991.

<b>MAKE:</b>	<b>Peterbilt</b>	<b>(87)</b>	<b>(PTRB)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>MEDIUM/HEAVY TRUCKS</b>				
881	Medium/Heavy – CBE	357-379, 387, 385	1974- <b>2014</b> , 9999	60-64,66, 71,72,78
882	Medium/Heavy – COE low entry	270	1965- <b>2014</b> , 9999	60-64,66, 71,72,78
883	Medium/Heavy – COE high entry	362, 320	1965- <b>2014</b> , 9999	60-64,66, 71,72,78
884	Medium/Heavy – Unknown engine location		1961- <b>2014</b> , 9999	60-64,66, 71,72,78
890	Medium/Heavy – COE entry position unknown		1964- <b>2014</b> , 9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)		1965- <b>2014</b> , 9999	60-64,66, 71,72,78
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1965-2004, 9999	50-52,58,59
982	Bus: Front engine, Flat front		1965-2004, 9999	50-52,58,59
983	Bus: Rear engine, Flat front		1965-2004, 9999	50-52,58,59
988	Other (bus)		1965-2004, 9999	50-52,58,59
989	Unknown (bus)		1965-2004, 9999	50-52,58,59
<b>MOTOR HOME</b>				
850	Motor Home	Truck based	1965- <b>2014</b> , 9999	65,73
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1965- <b>2014</b> , 9999	92,93,97
999	Unknown (PETERBILT)		1965- <b>2014</b> , 9999	99

<b>MAKE:</b>	<b>White/Autocar-White/GMC</b>	<b>(89)</b>	<b>(WHIT) – (WHGM)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>MEDIUM/HEAVY TRUCKS</b>				
881	Medium/Heavy – CBE		1965- <b>2014</b> , 9999	60-64,66, 71,72,78
882	Medium/Heavy – COE low entry		1968- <b>2014</b> , 9999	60-64,66, 71,72,78
883	Medium/Heavy – COE high entry		1965- <b>2014</b> , 9999	60-64,66, 71,72,78
884	Medium/Heavy – Unknown engine location		1963- <b>2014</b> , 9999	60-64,66, 71,72,78
890	Medium/Heavy – COE entry position unknown		1965- <b>2014</b> , 9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)		1965- <b>2014</b> , 9999	60-64,66, 71,72,78
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1965- <b>2014</b> , 9999	50-52,58,59
982	Bus: Front engine, Flat front		1965- <b>2014</b> , 9999	50-52,58,59
983	Bus: Rear engine, Flat front		1965- <b>2014</b> , 9999	50-52,58,59
988	Other (bus)		1965- <b>2014</b> , 9999	50-52,58,59
989	Unknown (bus)		1965- <b>2014</b> , 9999	50-52,58,59
** Use code "989"(bus) if the frontal plane or the engine location is unknown.				
<b>MOTOR HOME</b>				
850	Motor Home	Truck based	1965- <b>2014</b> , 9999	65,73
<b>OTHER VEHICLE</b>				
998	Other (vehicle)		1963- <b>2014</b> , 9999	<b>92</b> , 93,97
999	Unknown (WHITE/AUTOCAR-WHITE/GMC)		1963- <b>2014</b> , 9999	99

## BUSES

NOTE: Refer to the PASSENGER CAR section for buses manufactured by Chevy, Dodge, Ford, GMC, Grumman, Isuzu, Mercedes, Mitsubishi and Volvo. Refer to the TRUCK section for buses manufactured by Brockway, Diamond Reo, Freightliner, FWD, International Harvester, Kenworth, Mack, Peterbilt, and White/Autocar-White/GMC. Refer to the OTHER MAKE section for buses manufactured by Neoplan, Carpenter Industries, DINA, Mid Bus, Orion, and Van Hool. Hino and Scania buses are located under OTHER MAKE (Medium/Heavy Trucks) since those manufacturers also make trucks.

<b>MAKE:</b>	<b>Bluebird</b>	<b>90</b>	<b>(BLUI)</b>	
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>LIGHT TRUCKS</b>				
461	Van Based	van-based school bus, shuttle bus	1927- <b>2014</b> , 9999	21
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1927- <b>2014</b> , 9999	50-52, 58, 59
982	Bus: Front engine, Flat front		1927- <b>2014</b> , 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front		1927- <b>2014</b> , 9999	50-52, 58, 59
988	Other (bus)		1927- <b>2014</b> , 9999	50-52, 58, 59
989	Unknown (bus)		1927- <b>2014</b> , 9999	50-52, 58, 59
999	Unknown (BLUEBIRD)		1927- <b>2014</b> , 9999	99

\*\* Use code "989"(bus) if the frontal plane or the engine location is unknown.

<b>MAKE:</b>	<b>Eagle Coach</b>	<b>91</b>		
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1948-2001, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front		1948-2001, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front		1948-2001, 9999	50-52, 58, 59
988	Other (bus)		1948-2001, 9999	50-52, 58, 59
989	Unknown (bus)		1948-2001, 9999	50-52, 58, 59

\*\* Use code "989"(bus) if the frontal plane or the engine location is unknown.

<b>MAKE:</b>	<b>Gillig</b>	<b>92</b>
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Model	Codes	Includes	Model Years	Body Types
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1932- <b>2014</b> , 9999	50-52, 58, 59
982	Bus: Front engine, Flat front		1932- <b>2014</b> , 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front		1932- <b>2014</b> , 9999	50-52, 58, 59
988	Other (bus)		1932- <b>2014</b> , 9999	50-52, 58, 59
989	Unknown (bus)		1932- <b>2014</b> , 9999	50-52, 58, 59

\*\* Use code "989"(bus) if the frontal plane or the engine location is unknown.

<b>MAKE:</b>	<b>MCI</b>	<b>93</b>	<b>(MCIN)</b>
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Model	Codes	Includes	Model Years	Body Types
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1963- <b>2014</b> , 9999	50-52, 58, 59
982	Bus: Front engine, Flat front		1963- <b>2014</b> , 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front		1963- <b>2014</b> , 9999	50-52, 58, 59
988	Other (bus)		1963- <b>2014</b> , 9999	50-52, 58, 59
989	Unknown (bus)		1963- <b>2014</b> , 9999	50-52, 58, 59

\*\* Use code "989"(bus) if the frontal plane or the engine location is unknown.

<b>MAKE:</b>	<b>Thomas Built</b>	<b>94</b>	<b>(THMS)</b>
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Model	Codes	Includes	Model Years	Body Types
<b>LIGHT TRUCKS</b>				
461	Van Based	van-based school bus, shuttle bus	1936- <b>2014</b> , 9999	21
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1936- <b>2014</b> , 9999	50-52, 58, 59
982	Bus: Front engine, Flat front		1936- <b>2014</b> , 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front		1936- <b>2014</b> , 9999	50-52, 58, 59
988	Other (bus)		1936- <b>2014</b> , 9999	50-52, 58, 59
989	Unknown (bus)		1936- <b>2014</b> , 9999	50-52, 58, 59
999	Unknown (THOMAS BUILT)		1936- <b>2014</b> , 9999	99

\*\* Use code "989"(bus) if the frontal plane or the engine location is unknown.

## OTHER MAKE

MAKE:	Other Make *	(98)		
Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES</b> (Unknown if DOMESTIC or FOREIGN)**				
301	Think	City	2009- <b>14</b> ,9999	03
302	Meyers Motor	NmG	2008- <b>14</b> ,9999	02
398	Other (automobile)	Solectra (electric: Force)	1945- <b>2014</b> , 9999	01-13
<b>LIGHT TRUCKS</b>				
498	Other (light truck)	Solectra (electric: Citivan Flash)	1960- <b>2014</b> , 9999	14-16,19-22, 28-33,39-42, 45, 48
<b>LSV/NEV</b>				
598	Other (LSV/NEV)	Tomberlin, Ford, Fly Bo	2000- <b>14</b> ,9999	94
<b>MOTORCYCLES</b>				
701	0-50cc	(Includes: ATK, Beta, Buell, Cagiva, Cobra Trike, Jawa,	1965- <b>2014</b> , 9999	80,81,88,89
702	51-124cc	Husqvarna, KTM, Aprilia, Maely, Riva, Strociek, BMC,	1965- <b>2014</b> , 9999	80-83,88,89
703	125-349cc	MV Agusta, Bimota, Husaberg, Indian Scout, Indian, Laverda,	1965- <b>2014</b> , 9999	80-83,88,89
704	350-449cc	Big Dog, Titan, Twin Eagle, Viza, Viper)	1965- <b>2014</b> , 9999	80-83,88,89
705	450-749cc		1965- <b>2014</b> , 9999	80-83,88,89
706	750cc or greater		1965- <b>2014</b> , 9999	80-83,88,89
709	Unknown cc		1945- <b>2014</b> , 9999	80-83,88,89
<b>ALL TERRAIN VEHICLES</b>				
731	0-50cc	includes all ATVs designed solely for	1965- <b>2014</b> , 9999	90
732	51-124cc	off-road use and have 3 or 4 wheels. Includes: Polaris	1965- <b>2014</b> , 9999	90
733	125-349cc		1965- <b>2014</b> , 9999	90
734	350cc or greater		1965- <b>2014</b> , 9999	90
739	Unknown cc		1965- <b>2014</b> , 9999	90

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**MAKE: Other Make \* (Cont.) (98)**


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<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>MEDIUM/HEAVY TRUCKS</b>				
802	Auto-Union-DKW		1965-88, 9999	60-64,66, 71,72,78
803	Divco		1963-88, 9999	60-64,66, 71,72,78
804	Western Star		1965- <b>2014</b> , 9999	60-64,66, 71,72,78
805	Oshkosh	(includes trucks & buses)	1965- <b>2014</b> , 9999	50,52-59,60-64, 66,71,72,78
806	Hino	(includes trucks & buses)	1985- <b>2014</b> , 9999	50-52,58,59,60 64, 66,71,72,78
807	Scania	(includes trucks & buses)	1986-2004, 9999	50-52,58,59,60- 64, 66,71,72,78
808	UD		1986- <b>2014</b> , 9999	60-64,66, 71,72,78
809	Sterling		1998- <b>2014</b> , 9999	60-64,66, 71,72,78
881	Medium/Heavy – CBE	DINA	1965- <b>2014</b> , 9999	60-64,66, 71,72,78
882	Medium/Heavy – COE low entry	DINA	1965- <b>2014</b> , 9999	60-64,66, 71,72,78
883	Medium/Heavy – COE high entry		1965- <b>2014</b> , 9999	60-64,66, 71,72,78
884	Medium/Heavy – Unknown engine location		1965- <b>2014</b> , 9999	60-64,66, 71,72,78
870	Medium/Heavy Van- Based Vehicle		1965- <b>2014</b> , 9999	55, 61-64
890	Medium/Heavy – COE entry position unknown		1965- <b>2014</b> , 9999	60-64,66, 71,72,78
898	Other (medium/heavy truck)**	e.g., Marmon, Ward LaFrance	1945- <b>2014</b> , 9999	60-64,66, 71,72,78
<b>BUSES</b>				
902	Neoplan		1950- <b>2014</b> , 9999	50-52,58,59
903	Carpenter		1923-2000, 9999	21,50-52,58,59
904	Collins Bus		1967- <b>2014</b> , 9999	21
905	DINA		1989-2004, 9999	50-52,58,59
906	Mid Bus		1963- <b>2008</b> , 9999	21

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**MAKE: Other Make \* (Cont.) (98)**


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<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>BUS (Cont.)</b>				
907	Orion		1978-2013, 9999	50-52,58,59
908	Van Hool		1947- <b>2014</b> , 9999	50-52,58,59
981	Bus***: Conventional (Engine out front)		1965- <b>2014</b> , 9999	50-52,58,59
982	Bus: Front engine, Flat front		1976- <b>2014</b> , 9999	50-52,58,59
983	Bus: Rear engine, Flat front		1965- <b>2014</b> , 9999	50-52,58,59
988	Other (bus)	**** (see following page)	1945- <b>2014</b> , 9999	50-52,58,59
<b>MOTOR HOME</b>				
850	Motor Home	Truck-based	1965- <b>2014</b> , 9999	65,73
<b>OTHER VEHICLE</b>				
998	Other (vehicle)	(e.g., farm vehicle, snowmobile, go-cart, golf carts)	1940- <b>2014</b> , 9999	91-93, <b>95</b> , 97
999	Unknown (OTHER MAKE)		1940- <b>2014</b> , 9999	49,79,99

\* Occurs when make is not explicitly listed here.

\*\* Do not use Other Make (98) if Other Domestic (29) or Other Import (69) is applicable.

\*\*\* Use code "989" (bus) if the frontal plane or the engine location is unknown.

\*\*\*\* Prior to 1999, MCI buses were coded Other Make/Other Bus. Starting in 1999, MCI has its own Make Code 93.

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# UNKNOWN MAKE

MAKE:	Unknown Make	(99)		
Model	Codes	Includes	Model Years	Body Types
<b>AUTOMOBILES</b>				
399	Unknown (automobile)		1945- <b>2014</b> , 9999	01-13
<b>LIGHT TRUCKS</b>				
499	Unknown (light truck)		1945- <b>2014</b> , 9999	14-16,19-22, 28-33,35,39-42, 45, 48
<b>LSV/NEV</b>				
599	Unknown (LSV/NEV)		2000- <b>14</b> ,9999	94
<b>MOTORCYCLES</b>				
701	0-50cc		1965- <b>2014</b> , 9999	80-83, 88, 89
702	51-124cc		1965- <b>2014</b> , 9999	80-83, 88, 89
703	125-349cc		1965- <b>2014</b> , 9999	80-83, 88, 89
704	350-449cc		1965- <b>2014</b> , 9999	80-83, 88, 89
705	450-749cc		1965- <b>2014</b> , 9999	80-83, 88, 89
706	750cc or greater		1965- <b>2014</b> , 9999	80-83, 88, 89
709	Unknown cc		1945- <b>2014</b> , 9999	80-83, 88, 89
<b>ALL TERRAIN VEHICLES</b>				
731	0-50cc	includes all ATVs designed solely for off-road use and have 3 or 4 wheels.	1965- <b>2014</b> , 9999	90
732	51-124cc		1965- <b>2014</b> , 9999	90
733	125-349cc		1965- <b>2014</b> , 9999	90
734	350cc or greater		1965- <b>2014</b> , 9999	90
739	Unknown cc		1965- <b>2014</b> , 9999	90
<b>MEDIUM/HEAVY TRUCKS</b>				
870	Medium Heavy Van- Based Vehicle		1965- <b>2014</b> , 9999	55, 61-64
881	Medium/Heavy – CBE		1965- <b>2014</b> , 9999	60-64, 66, 71, 72, 78
882	Medium/Heavy – COE low entry		1965- <b>2014</b> , 9999	60-64, 66, 71, 72, 78
883	Medium/Heavy – COE high entry		1965- <b>2014</b> , 9999	60-64, 66, 71, 72, 78

<b>MAKE:</b> Unknown Make (Cont.)		<b>(99)</b>		
<b>Model</b>	<b>Codes</b>	<b>Includes</b>	<b>Model Years</b>	<b>Body Types</b>
<b>MEDIUM/HEAVY TRUCKS (Cont.)</b>				
884	Medium/Heavy – Unknown engine location		1965- <b>2014</b> , 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy – COE entry position unknown		1965- <b>2014</b> , 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)		1965- <b>2014</b> , 9999	60-64, 66, 71, 72, 78
<b>BUSES</b>				
981	Bus**: Conventional (Engine out front)		1965- <b>2014</b> , 9999	50-52, 58, 59
982	Bus: Front engine. Flat front		1976- <b>2014</b> , 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front		1965- <b>2014</b> , 9999	50-52, 58, 59
988	Other (bus)		1945- <b>2014</b> , 9999	50-52, 58, 59
989	Unknown (bus)		1945- <b>2014</b> , 9999	50-52, 58, 59
** Use code "989" (bus) if the frontal plane or the engine location is unknown.				
<b>MOTOR HOME</b>				
850	Motor Home	Truck based	1965- <b>2014</b> , 9999	65, 73
<b>OTHER VEHICLE</b>				
998	Other (vehicle)	(e.g., farm vehicle, snowmobile, go-cart)	1943- <b>2014</b> , 9999	91-93, 95, 97
999	Unknown (as to automobile, motored cycle, light truck or truck)		1945- <b>2014</b> , 9999	49, 79, 99

## **BODY TYPE**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.Body\_Typ, Person.Body\_Typ, parkwork.PBODYTYP

**ELEMENT VALUES:**

**Automobiles:**

- 1 Convertible (excludes sun-roof, t-bar)
- 2 2-Door Sedan, Hardtop, Coupe
- 3 3-Door/2-Door Hatchback
- 4 4-Door Sedan, Hardtop
- 5 5-Door/4-Door Hatchback
- 6 Station Wagon (excluding van and truck based)
- 7 Hatchback, Number of Doors Unknown
- 17 3-Door Coupe
- 8 Sedan/Hardtop, number of doors unknown
- 9 Other or Unknown automobile type

**Automobile Derivatives:**

- 10 Auto-Based Pickup (includes Chevrolet - El Camino, GMC -Caballero, Ford - Ranchero, Chevrolet - SSR; Subaru-Baha, Brat, and Volkswagen - Rabbit Pickup)
- 11 Auto-Based Panel (Cargo Station Wagon, auto-based Ambulance/Hearse)
- 12 Large Limousine (More than four side doors or stretched chassis)
- 13 Three-Wheel Automobile or Automobile Derivative

**Utility Vehicles:**

- 14 Compact Utility (ANSI D16.1 Utility Vehicle Categories “Small” and “Midsize”):
  - Small: Chevy-Tracker; GMC- Jimmy/Typhoon; Isuzu - Trooper II; Oldsmobile - Bravada (1991-94); Suzuki - Samurai, Sidekick.
  - Midsize: Acura - SLX, RDX; Audi - Q5, Q7, Allroad, **SQ5**; BMW - X1, X3, X5; Buick - Rendezvous, Rainier, Encore, Enclave; Chevrolet - Captiva, S10-Blazer/TrailBlazer, Tracker (1999 on), TrailBlazer (2003 on), Equinox; Diahatsu - Rocky; Dodge - Durango (1998-2003), Nitro, Raider; **Fiat - 500L**; Ford - Bronco II (1984 on), Escape, Explorer, Explorer Sport; GMC - Jimmy (1995 on), Envoy, Terrain; Honda - CRV, Passport, Element; Hummer - H3; Hyundai - Santa Fe, Tuscon, Veracruz (2007 only); Infiniti - QX4, JX35, **QX60**, **QX70**; Isuzu - Amigo, Axiom, Rodeo, Rodeo Sport, Vehicross, Trooper, Hombre; Jeep - Cherokee (1984 on), Commander, Grand Cherokee, Liberty, Patriot, Wagoneer, Wrangler; Lincoln - Aviator; Kia - Sportage, Sorrento; Land Rover - Defender (1993, 1995-1997), Discovery, Freelander (2002-2003) Evogue; Lexus - RX300, RX330, GX470; Lincoln - Aviator, **MKC**; Mazda - CX5, CX9 Navajo, Tribute;

Mercedes - M, ML, G, GLK; Mercury - Mariner, Mountaineer; Mitsubishi - Montero, Montero Sport, Endeavor; Nissan - Juke, Pathfinder, Xterra; Oldsmobile - Bravada (1996 on); Pontiac - Aztek, Torrent; Porsche - Macan; Saab - 9-7x; Saturn - Vue; Subaru - B9 Tribeca, Forester, XV Crosstrek; Suzuki - Vitara, Vitara V6, Grand Vitara, X90, XL7; Toyota - 4-Runner, FJ Cruiser, Highlander, RAV4; Volkswagen - Tiguan; Volvo - **XC70**, XC90.

- 15 Large utility (ANSI D16.1 Utility Vehicle Categories and “Full Size” and “Large”)
  - Full Size: Acura - MDX; AMC - Hummer; Buick - Enclave (2013 on), Cadillac - Escalade; Chevrolet Full-size Blazer, Tahoe, Traverse (2013 on); Chrysler - Aspen, Dodge - Durango (2004 on), Ford - Full-size Bronco (78 and after), Expedition; Honda - Pilot; Hyundai - Veracruz (2008 on); GMC - Acadia (2013 on), Jimmy (1991-1994), Yukon (Denali/XL); Infiniti - QX56, **QX80**; Isuzu - Ascender; Jeep - Cherokee (83 and before); Kia - Mesa, Borrego; Land Rover - LR2, LR3, Freelander (2004 on), Range Rover; Mazda - CX-9, Mercedes Benz - GL; Nissan - Armada; Porsche - Cayenne; Lexus - LX450/470; Lincoln - Navigator; Toyota - Land Cruiser, Sequoia; Volkswagen - Touareg.
  - Large: Avanti - Studebaker XUV; AMC -Hummer (H1, H2)
- 16 Utility station wagon (includes suburban limousines), Cadillac - Escalade ESV; Chevrolet - Suburban (Yukon XL (2000 on), Travellall, Ford - Excursion, Jeep - Grand Wagoneer)
- 19 Utility Vehicle, Unknown Body Type

#### **Van-Based Light Trucks (GVWR < = 10,000 lbs.):**

- 20 Minivan (Buick-Terraza; Chevrolet-Astro, Lumina, Uplander, Venture; Chrysler-Town and Country, Voyager; Dodge-Caravan, Grand Caravan, **RAM-CV**; Ford-Aerostar, Windstar, Freestar, Transit Connect; GMC-Safari, Savana; Honda-Odyssey; Hyundai-Entourage; Isuzu-Oasis; Kia-Sedona; Mazda-MPV; Mercury-Monterey, Villager; Mitsubishi-Minivan; Nissan-Altra EV, Axxess, Quest, Van; Oldsmobile-Silhouette; Plymouth-Voyager, Grand Voyager, Vista; Pontiac-Transport, Montana; Saturn-Relay; Toyota-Previa, Sienna; Volkswagen-Camper, Eurovan, Routan, Vanagon.
- 21 Large Van-Includes van-based buses (B150-B350, Sportsman, Royal Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura, Ford - Transit, Freightliner - Sprinter/Advantage, Mercedes Benz - Sprinter, Dodge - Sprinter, **RAM-Promaster**, Nissan - NV, Ford - Transit)
- 22 Step-van or walk-in van (GVWR <= 10,000 lbs.)
- 28 Other van type (Hi-Cube Van, Kary)
- 29 Unknown van type

#### **Light Conventional Truck (Pick-up style cab, GVWR < = 10,000 lbs.):**

- 30 Compact pickup (GVWR < 4,500 lbs.) (Chevrolet - Colorado, Courier, S-10, T-10, LUV; Dodge - D50, Colt P/U, Ram 50, Dakota; Plymouth - Arrow Pickup [foreign]; Ford - Courier, Ranger, Explorer Sport Trac; GMC – Canyon, Dakota, S-15, T-15,

Sonoma, Honda - Ridgeline; Isuzu - Hombre, i-280, i-350; Mahindra - TR; Mazda - Pickup, B-Series; Mitsubishi - Pickup; Nissan/Datsun - Pickup, Frontier; Toyota - Pickup, Tacoma)

- 31 Standard pickup (GVWR 4,500 to 10,000 lbs.) (AM General - Hummer Pickup; Avanti - Studebaker XUT; Cadillac - Escalade EXT; Chevrolet - Avalanche, Silverado, C-K 1500, C-K 2500, C-K 3500, S/T, Sierra, R100-R500; Dodge - Ram Pick up, Dakota, D100-D350, W100-W350, Ford - F100-F350; GMC - C10-C35, K10-K35, R10-R35, V10-V35; Jeep - Pickup, Comanche; Lincoln - Blackwood , Mark LT; Mitsubishi - Raider; Nissan - Titan; Suzuki - Equator; Toyota - Tundra, T-100.)
- 32 Pickup with slide-in camper
- 33 Convertible pickup
- 39 Unknown (pickup style) light conventional truck type

#### **Other Light Convention Trucks (GVWR < = 10,000 lbs.):**

- 40 Cab Chassis Based (includes Rescue Vehicle, Light Stake, Dump, and Tow Truck)
- 41 Truck Based Panel
- 45 Other light conventional truck type
- 48 Unknown light truck type
- 49 Unknown light vehicle type (automobile, utility vehicle, van, light truck)

#### **Buses (excludes van-based buses with a GVWR < = 10,000 lbs.):**

- 50 School Bus
- 51 Cross Country/Intercity Bus
- 52 Transit Bus (City Bus)
- 55 Van-Based Bus GVWR > 10,000 lbs.
- 58 Other Bus Type
- 59 Unknown Bus Type

#### **Medium/Heavy Vehicle (GVWR > 10,000 lbs.):**

- 60 Step Van (>10,000 lbs. GVWR)
- 61 Single-unit straight truck or Cab-Chassis (10,000 lbs. < GVWR < or = 19,500 lbs.)
- 62 Single-unit straight truck or Cab-Chassis (19,500 lbs. < GVWR < or = 26,000 lbs.)
- 63 Single-unit straight truck or Cab-Chassis (GVWR > 26,000 lbs.)
- 64 Single-unit straight truck or Cab-Chassis (GVWR unknown)
- 66 Truck-tractor (Cab only, or with any number of trailing units; any weight)
- 67 Medium/heavy Pickup (>10,000 lbs. GVWR)
- 71 Unknown if single-unit or combination unit Medium Truck (10,000 lbs. < GVWR < 26,000 lbs.)
- 72 Unknown if single-unit or combination unit Heavy Truck (GVWR > 26,000 lbs.)
- 78 Unknown medium/heavy truck type
- 79 Unknown truck type (light/medium/heavy)

**Motor Homes – (Do NOT code commercial vehicle elements for motor homes, unless hazardous cargo is present):**

- 42 Light Truck Based Motorhome (Chassis Mounted)
- 65 Medium/heavy truck based motor home
- 73 Camper or motor home, unknown truck type

**Motorcycles, Mopeds, All-Terrain Vehicles: All-Terrain Cycles:**

- 80 Motorcycle
- 81 Moped (motorized bicycle)
- 82 Three-wheel Motorcycle or Moped – not All-Terrain Vehicle
- 83 Off-road Motorcycle (2-wheel)
- 88 Other motored cycle type (mini-bikes, motor scooters, pocket motorcycles “pocket bikes”)
- 89 Unknown motored cycle type
- 90 ATV/ATC (All-Terrain Cycle)

**Other Vehicles:**

- 91 Snowmobile
- 92 Farm equipment other than trucks
- 93 Construction equipment other than trucks (includes graders)
- 95 Golf Cart
- 94 Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)
- 97 Other vehicle type (includes go-cart, fork-lift, city street sweeper, dune/swamp buggy)
- 98 Not Reported
- 99 Unknown body type

**Definition:** This element identifies a classification of this vehicle based on its general body configuration, size, shape, doors, etc.

**Remarks:**

**SEE ADDITIONAL REMARKS BEFORE VEHICLE MAKE – V9**

**AUTOMOBILES:**

These attributes are used to classify different types of passenger cars. These type of light vehicles, referred to as automobiles, are designed primarily to transport eight or fewer persons.

**1 (Convertible [excludes sun-roof and t-bar])** refers to a passenger car equipped with a removable or retractable roof. To qualify for this code, the entire roof must open. Convertible roofs are generally fabric; however, removable hardtops are also included. This attribute takes priority over 2-door or 4-door codes.

**2 (2-Door Sedan, Hardtop, Coupe)** refers to a passenger car equipped with two doors for ingress/egress and a separate trunk area for cargo (e.g., trunk lid hinged below the backlight). Folding rear seats do not necessarily violate the separate “trunk area” concept.

**3 (3-Door/2-Door Hatchback)** refers to a passenger car equipped with two doors for ingress/egress and a rear hatch opening for cargo (e.g., hinged above the backlight). The cargo area is not permanently partitioned from the passenger compartment area.

**4 (4-Door Sedan, Hardtop)** refers to a passenger car equipped with four doors for ingress/egress and a separate trunk area for cargo (e.g., trunk lid hinged below the backlight). Folding rear seats do not necessarily violate the separate “trunk area” concept.

**5 (5-Door/4-Door Hatchback)** refers to a passenger car equipped with four doors for ingress/egress and a rear hatch opening for cargo (e.g., hinged above the backlight). The cargo area is not permanently partitioned from the passenger compartment area.

**6 (Station wagon [excluding van and truck based])** refers to a passenger car with an enlarged cargo area. The entire roof covering the cargo area is generally equal in height from front to rear and full height side glass is installed between the C and D-pillars. The rearmost area is not permanently partitioned from the forward passenger compartment area (e.g., “horizontal window shades” to hide cargo do not constitute partitions).

**7 (Hatchback, Number of Doors Unknown)** refers to a passenger car with an unknown number of doors for ingress/egress and a rear hatch opening for cargo (e.g., hinged above the backlight). The cargo area is not permanently partitioned from the passenger compartment area.

**17 (3-door coupe)** refers to a passenger car equipped with three doors for ingress/egress in which 2 of the doors are located on the driver's side and a separate trunk area for cargo (e.g., trunk lid hinged below the backlight). Folding rear seats do not necessarily violate the separate “trunk area” concept.

**8 (Sedan/Hardtop, number of doors unknown)** refers to a passenger car equipped with an unknown number of doors for ingress/egress and a separate trunk area for cargo (e.g., trunk lid hinged below the backlight). Folding rear seats do not necessarily violate the separate “trunk area” concept.

**9 (Other or Unknown automobile type)** is used for any passenger car that cannot be described by the other automobile codes OR when it is known that the vehicle is a passenger car, but there is insufficient data to determine the type. Do not use this attribute if the Police Accident Report (PAR) alone or in combination with other information gives sufficient detail to identify a more specific attribute.

- **Example #1:** If the possible choices are codes “01,” “02”, or “09” but there is enough detail to identify that it is a 2-door and that it is NOT a convertible, then use **02 (2-Door Sedan, Hardtop, Coupe)**.
- **Example #2:** If there is information that it is a 4-door and the PAR eliminates the possibility of a hatchback or station wagon, then use **04 (4-Door Sedan, Hardtop)**.

## **AUTOMOBILE DERIVATIVES**

This describes certain passenger cars that have been modified to perform cargo-related tasks.

**10 (Auto-Based Pickup)** refers to a passenger car based, pickup type vehicle. The roof area (and side glass) rearward of the front seats on a station wagon have been removed and converted into a pickup-type cargo box.

**11 (Auto-Based Panel (Cargo Station Wagon, auto-based Ambulance/Hearse)**) refers to an automotive station wagon that may have sheet metal rearward of the B-pillar rather than glass.

**12 (Large Limousine)** - more than four side doors or stretched chassis refers to an automobile that has sections added within its wheelbase to increase length and passenger/cargo carrying capacity.

**13 (Three-Wheel Automobile or Automobile Derivative)** refers to three-wheel vehicles with an enclosed passenger compartment.

## **UTILITY VEHICLES (< = 10,000 lbs. GVWR)**

Utility Vehicles are designed for carrying persons, and generally considered a multi-purpose vehicle that is designed to have off-road capabilities. These vehicles are: generally four-wheel drive (4 x 4), have increased ground clearance, and are equipped with a strong frame. Four wheel drive automobiles are not considered utility vehicles.

**14 (Compact Utility)** refers to a short wheelbase and narrow tracked multi-purpose vehicle designed to operate in rugged terrain.

**15 (Large Utility)** refers to full-size multi-purpose vehicles primarily designed around a shortened pickup truck chassis. Generally a station wagon style body, some models are equipped with a removable top.

**16 (Utility Station Wagon)** refers primarily to a pickup truck based chassis enlarged to a station wagon.

**19 (Utility Vehicle, Unknown Body Type)** is used when it is known that the vehicle is a utility vehicle, but there is insufficient data to determine the specific type.

## **VAN-BASED LIGHT TRUCKS (< = 10,000 lbs. GVWR)**

Van-Based Light Trucks (< = 10,000 lbs. GVWR) are designed to maximize cargo/passenger area versus overall length. Basically a "box on wheels", these vehicles are identifiable by their enclosed cargo/passenger area and relatively short (or non-existent) hood.

**20 (Minivan)** refers to down-sized cargo or passenger unibody vans.

**21 (Large Van)** refers to a standard cargo or passenger van and includes van-based buses less than 10,001 lbs. GVWR. These vans will generally have a larger capacity in both volume and GVWR.

**22 (Step Van or Walk-In Van [< = 10,000 lbs. GVWR])** refers to a multi-stop delivery vehicle with a GVWR less than or equal to 10,000 lbs. Examples are the Grumman LLV used by the US Postal Service or the Aeromate manufactured by Utilimaster Motor Corporation.

**28 (Other Van Type)** refers to a cargo or delivery van where the chassis and cab portions from the B-pillar forward of this vehicle are the same as in Minivans or Large Vans with a frame mounted cargo area unit added behind the driver/cab area or if the van cannot be described as a Minivan, Large Van, Step-van or a Van-based motor home. Annotate the van type when using this code. This code takes priority over Minivans and Large Vans.

**29 (Unknown Van Type)** is used when it is known that this vehicle is a light van, but its specific type cannot be determined.

#### **LIGHT CONVENTIONAL TRUCKS (Pickup Style Cab, < = 10,000 lbs. GVWR)**

Light Conventional Trucks are used to describe vehicles commonly referred to as pickup trucks and some of their derivatives. These light trucks are characteristically designed with a small cab containing a single row of seats (extended cabs with additional seats are available for some models), a large hood covering a conventional engine placement, and a separate open box area (approximately 180 to 240 centimeters long) for cargo.

**30 (Compact Pickup)** is used to describe a pickup truck having a width of 178 centimeters or less.

**31 (Standard Pickup)** is used to describe a pickup truck having a width of greater than 178 centimeters.

**32 (Pickup with Slide-in Camper)** is used to describe any pickup truck that is equipped with a slide-in camper. A slide-in camper is a unit that mounts within a pickup bed. Pickup bed caps, tonneau covers or frame mounted campers are not applicable for this code.

**33 (Convertible Pickup)** refers to a pickup truck equipped with a removable or retractable roof. To qualify for this code, the entire roof must open. Convertible roofs are generally fabric; however, removable hardtops are also included. This code takes priority over compact and large pickups.

**39 (Unknown (Pickup Style) Light Conventional Truck Type)** is used when this vehicle is a Light Conventional Truck, but there is insufficient data to determine the specific code.

## **OTHER LIGHT TRUCKS (< = 10,000 lbs. GVWR)**

Other Light Trucks are used to describe vehicles that are based upon a conventional light pickup frame, but a commercial or recreational body has been affixed to the frame rather than a pickup box.

**40 (Cab Chassis Based [includes rescue vehicles, light stake, dump and tow truck])** is used to describe a light vehicle with a pickup style cab and a commercial (non-pickup) body attached to the frame. Included are pickup based ambulances and tow trucks.

**41 (Truck Based Panel)** is used to describe a truck based station wagon that has sheet metal rather than glass above the beltline rearward of the B-pillars.

**45 (Other Light Conventional Truck Type)** is used for light conventional trucks that cannot be described elsewhere.

**48 (Unknown Light Truck Type)** is used when it is known that the vehicle is a light truck but further classification into one of the more detailed light truck categories (utility, van, pickup or other light trucks) is not possible. Example: It is known the light vehicle is a utility vehicle or van but it can't be determined which one.

**49 (Unknown Light Vehicle Type [automobile, utility, van or light truck])** is used when it is known that the vehicle is a light vehicle, but insufficient data exists to specify what type of light vehicle it is.

## **Buses (excludes van-based buses GVWR < or = 10,000 lbs.):**

Buses are defined as any motor vehicle designed primarily to transport large groups of passengers (nine or more persons, including the driver).

**50 (School Bus)** (designed to carry students, not cross country or transit) is a bus designed to carry passengers to and from educational facilities and/or related functions. The vehicles are characteristically painted yellow and clearly identified as school buses. Use this code regardless of whether the vehicle is owned by a school system or a private company. School buses converted for other uses (e.g., church bus) also take this code.

**51 (Cross Country/Intercity Bus)** describes a bus body type designed to travel long distances between cities (e.g. Greyhound).

**52 (Transit Bus [City Bus])** describes a bus body type designed for public transportation typically within a city.

**55 (Van-Based Bus GVWR > 10,000 lbs.)** describes a bus body type built on a van-based chassis.

**58 (Other Bus Type)** is a vehicle designed/converted to carry nine or more persons, including the driver, not described by the attributes school bus, cross country/intercity bus, transit bus, or van-based bus. Examples include a specialized tour bus or bus based motor home.

**59 (Unknown Bus Type)** is used when it is known the transport device is a bus but there is insufficient data to choose between the bus attributes.

### **MEDIUM/HEAVY TRUCKS (> 10,000 lbs. GVWR)**

Medium/Heavy Trucks describe a single-unit truck specifically designed for carrying cargo on the same chassis as the cab. They pertain to a truck-tractor designed for towing trailers or semi-trailers. Although towing is their primary purpose, some truck-tractors are equipped with cargo areas located rearward of the cab.

**60 (Step Van [>10,000 lbs. GVWR])** defines a single-unit, enclosed body with a GVWR greater than 10,000 lbs. and an integral driver's compartment and cargo area. Step vans are generally equipped with a folding driver seat mounted on a pedestal and a sliding door for easy ingress/egress.

**61-63 (Single-Unit Straight Truck or Cab-chassis)** describes a non-articulated truck designed to carry cargo. The attribute selected is based on the applicable GVWR range for the vehicle. Includes "incomplete" or "cutaway".

**64 (Single-Unit Straight Truck or Cab-chassis [GVWR unknown])** describes a medium/heavy non-articulated truck designed to carry cargo. It is known not to be a step van, van, or pickup truck, but its GVWR is unknown. Includes "incomplete" or "cutaway".

**66 (Truck-Tractor [Cab only or with any number of trailing units])** describes a fifth wheel equipped tractor-trailer power unit. The number of trailing units is not a consideration.

**67 (Medium/Heavy Pick-up [>10,000 lbs. GVWR])** is a single-unit straight truck with a pickup body style with a GVWR > 10, 000 lbs. Examples include the Ford Super Duty 350, 450, or 550.

**78 (Unknown Medium/Heavy Truck Type)** is used when it is unknown whether the medium/heavy truck is a single-unit truck or a truck-tractor and/or trailer combination and it is known that the vehicle is either a medium or heavy truck with GVWR >10,000 lbs..

**79 (Unknown Truck Type [light/medium/heavy])** is used when it is known that this vehicle is a truck, but there is insufficient data to classify the vehicle further.

### **MOTOR HOMES**

Motor Homes are recreational vehicles mounted on an incomplete vehicle chassis that is suitable to live in and drive across the country. (Do NOT code commercial vehicle elements for motor homes, unless hazardous cargo is present.)

**42 (Light Truck Based Motor Home [chassis mounted])** is used to describe a frame mounted recreational unit attached to a light van or conventional chassis.

**65 (Medium/Heavy Truck Based Motor Home)** describes a recreational vehicle mounted on a single unit medium/heavy truck chassis.

**73 (Camper or Motor Home, unknown truck type)** is used when it is known the vehicle is a camper or motor home, but the truck type is unknown.

### **MOTORCYCLES, MOPEDS, ALL-TERRAIN VEHICLES, ALL-TERRAIN CYCLES**

**80 (Motorcycle)** is used when a motor vehicle having a seat or saddle for the use of its operator is a two-wheeled open (e.g., no enclosed body) vehicle propelled by an internal combustion engine. Motorcycles equipped with a side car also use this code.

**81 (Moped [motorized bicycle])** is used when the vehicle is a speed-limited motor-driven cycle capable of moving either by pedaling or by an internal combustion engine.

**82 (Three-Wheeled Motorcycle or Moped)** is used when the vehicle is a three-wheeled open vehicle propelled by an internal combustion engine or a three-wheeled motorized bicycle capable of moving either by pedaling or by an internal combustion engine.

**83 (Off-road Motorcycle [2-wheel])** is used when the vehicle is a two-wheeled open vehicle propelled by an internal combustion engine designed or built for off road use only.

**88 (Other Motored Cycle [mini-bike, motor scooter, pocket motorcycles “pocket bikes”])** is used when the vehicle in question does not qualify for attributes motorcycle, moped, three-wheeled motorcycle or moped (e.g., motor scooter).

**89 (Unknown Motored Cycle Type)** is used when it is known that the vehicle is a motored cycle, but no further data is available.

**90 (ATV/ATC [All-Terrain Cycle])** is used for off-road recreational vehicles which cannot be licensed for use on public roadways. ATVs/ATCs have 3 or 4 wheels, a saddle type seat and handle bars for steering (no steering wheel). Does not include side-by-side ATVs (automobile type seats and steering wheel). See code 97 (Other Vehicle Type) for side-by-side ATV.

### **OTHER VEHICLES**

Other Vehicles describes all motored vehicles that are designed primarily for off-road use.

**91 (Snowmobile)** refers to a vehicle designed to be operated over snow propelled by an internal combustion engine.

**92 (Farm Equipment Other Than Trucks)** refers to farming implements other than trucks propelled by an internal combustion engine (e.g., farm tractors, combines, etc.).

**93 (Construction Equipment Other Than Trucks)** refers to construction equipment other than trucks propelled by an internal combustion engine (e.g., bulldozer, road grader, etc.).

**95 (Golf Cart)** is a motor vehicle that is designed and manufactured for operation on a golf course for sporting or recreational purposes. Golf carts or golf cars are different from code 94 (Low speed vehicle (LSV)/Neighborhood Electric Vehicle (NEV)) in that if they are manufactured to go less than 20 mph they are not subject to the Federal Motor Vehicle Safety Standard (FMVSS) 500. As a result, golf carts will not have a 17 digit VIN. Golf carts will have a nonstandard serial number that may be reported on the PAR. Also, typically golf carts will not have safety features required of LSV/NEV's under the FMVSS like safety belts, head lights, turn signal and tail lamps, rear view mirrors, etc. (See definition of LSV/NEV below).

**94 (Low speed vehicle (LSV)/Neighborhood Electric Vehicle (NEV))** refers to a vehicle that is designed for travel on secondary roads with speed limits equal to or less than 35 mph. LSVs can sometimes resemble golf carts but differ in that they must adhere to Federal Motor Vehicle Safety Standard (FMVSS) 500. Provisions of FMVSS 500 include the following:

The Vehicle must have:

- Four wheels
- Top speed of at least 20 mph, but it cannot exceed 25 mph
- GVWR less than 3,001 pounds
- Head, turn signal and tail lamps
- Reflex reflectors
- Parking brake
- Rear view mirrors
- Windshield
- Safety belts
- Seventeen (17) character VIN

**97 (Other Vehicle Type)** is used when the motorized vehicle in question does not qualify for Construction equipment other than trucks, Farm equipment other than trucks, or Snowmobile (e.g., fork-lift, city street sweeper, dune/swamp buggy, side-by-side ATV (automobile type seats and steering wheel) go-kart, “kit” car, etc.).

**98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported**”.

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)

2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown Body Type)** is used when the available information regarding the type of vehicle is reported as Unknown.

**Consistency Checks:**

IF	THEN
(1D0P) SPECIAL USE equals 01,	BODY TYPE must equal 02-09, 12, 14-21, 28, 29, <b>49</b> , 99.
(1Q0F) PERSON TYPE equals 01, and BODY TYPE equals 80-83, 88, 89,	SEATING POSITION must not equal 12-55, 99.
(1R0P) SEATING POSITION equals 51, and BODY TYPE equals 50-52, 55, 58, 59,	INJURY SEVERITY must not equal 0, 9.
(1Z2P) any SEQUENCE OF EVENTS equals 01, and (BODY TYPE equals 01-79, 82, 90-99, or any RELATED FACTORS-VEHICLE LEVEL equals 30),	ROLLOVER must equal 1, 2, 9.
(2D0P) SPECIAL USE equals 02,	BODY TYPE should equal 15, 16, 19-21, 28, 29, 45, 48, 50-52, 55, 58, 59.
(2Q0F) PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 01, 02, 04, 08, 10, 17, 31-33, 39-41, 45, 48, 90, 91,	SEATING POSITION must not equal 31-50.
(2R0P) RESTRAINT SYSTEM/HELMET USE equals 00-04, 07-12,	BODY TYPE must not equal 80-83, 88, 89, 90, 91.
(2U0P) BODY TYPE equals 80-83, 88-91,	AIR BAG DEPLOYED should equal 00.
(2U0Q) BODY TYPE equals 80-83, 88, 89,	AREAS OF IMPACT - INITIAL
(3A0P) SPECIAL USE equals 07,	CONTACT POINT should not equal 14.
(3Q0F) PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 01-17, 19, 20, 22, 28-33, 39, 41, 42, 50-52, 55, 58, 59, 65, 80-83, 88-92, 94, 95, 97,	BODY TYPE must equal 60-64, 66, 67, 71, 72, 78, 79, 99.
(4A0P) BODY TYPE equals 80-83, 88, 89,	SEATING POSITION must not equal 50.
	SPECIAL USE must not equal 01-03, 06, 07.

	IF	THEN
(4C1P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 01-05, 07-09, 14, 15, 17, 19, 94, 95, 97, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 20.
(4C2P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 06, 11, 16, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 22.
(4C3P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 12, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 25.
(4C4P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 80-83, 88, 89, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 5.
(4C5P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 42, 73, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 30.
(4C6P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 60-65, 71, 72, 79, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 55.
(4C7P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 66, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 77.
(4C8P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 91, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 10.
(4C9P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 90, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 20.
(4C0P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 99, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 10.
(4D0P)	SPECIAL USE equals 03,	BODY TYPE must equal 21, 28, 29, 50-52, 55, 58, 59.

	IF	THEN
(4F1P)	NUMBER OF OCCUPANTS is less than 97, and BODY TYPE equals 01-05, <b>07-10, 13, 17, 80-83, 88-90, 91-95</b> , 97, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS <u>must not</u> be greater than 15.
(4F2P)	NUMBER OF OCCUPANTS is less than 97, and BODY TYPE equals 06, 11, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 22.
(4F3P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 12, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 25.
(4F4P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 80-83, 88, 89, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 5.
(4F5P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 15, 16, 42, 73, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 30.
(4F6P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 60-65, 71, 72, 79, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 55.
(4F7P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 66, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 50.
(4F8P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 91, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 10.
(4F9P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 90, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 20.
(4F9Q)	<b>NUMBER OF OCCUPANTS is less than 97, and BODY TYPE equals 06, 11, 12, 14-16, 19, and VEHICLE TRAILING equals 0,</b>	<b>NUMBER OF OCCUPANTS should not be greater than 15.</b>
(4F0P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 99, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 10.
(4N4P)	MOTOR CARRIER IDENTIFICATION NUMBER does not equal 00-00000000,	BODY TYPE must equal 21, 28, 31, 40, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, <b>79, 92, 93, 99</b> , or HM2 must equal 2.

	IF	THEN
(4N5P)	BODY TYPE does not equal 21, 28, 31, 40, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 92, 93, or HM2 does not equal 2,	MOTOR CARRIER IDENTIFICATION NUMBER must equal 00-000000000, 99-999999999.
(4N6P)	MOTOR CARRIER IDENTIFICATION NUMBER equals 77-777777777,	BODY TYPE should equal 28, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 93 or HM1 should equal 2.
(4Q0F)	PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 80-83, 88, 89,	SEATING POSITION must not equal 12, 14-19, 22-50.
(4Q1F)	PERSON TYPE equals 02, 03, and BODY TYPE equals 21,	SEATING POSITION must not equal 50, 52.
(4S0P)	BODY TYPE equals 80-82, 83, 88, 89,	EJECTION must equal 8.
(4S1P)	BODY TYPE equals 80-83, 88, 89 and HM1 does not equal 1,	COMPLIANCE WITH CDL ENDORSEMENTS MUST equal 0.
(5A0P)	BODY TYPE equals 80, 81, 83, 88, 89, and any RELATED FACTORS - VEHICLE LEVEL does not equal 30,	ROLLOVER must equal 0.
(5B0P)	JACKKNIFE equals 0, and BODY TYPE equals 66,	VEHICLE TRAILING must not equal 1-4.
(5D0P)	SPECIAL USE equals 04,	BODY TYPE must equal 01-12, 15-17, 19-22, 28-33, 39-41, 45, 48-50, 55, 58, 59, 60-64, 66, 67, 71, 72, 78, 79, 90, 99.
(5F0F)	NUMBER OF OCCUPANTS equals 00-95, and BODY TYPE does not equal 50-52, 55, 58, 59,	the number of Person Level forms for that vehicle must be less than or equal to the NUMBER OF OCCUPANTS.
(5Q0F)	PERSON TYPE equals 02, and BODY TYPE equals 50-52, 55, 58, 59,	SEATING POSITION must not equal 11, 21-50, 98, 99.
(5S0P)	BODY TYPE equals 80-83, 88, 89 or 90,	EXTRICATION must equal 0.
(6A1P)	UNDERRIDE/OVERRIDE equals 1-8,	BODY TYPE must not equal 80-83, 88-91.
(6D0P)	SPECIAL USE equals 05,	BODY TYPE must equal 01-12, 14-17 19-22, 28-33, 39-41, 45, 48, 49, 55, 58-64, 66, 67, 71, 72, 78-82, 88-91, 94, 95, 97-99.
(6G0Q)	any RELATED FACTORS - VEHICLE LEVEL equals 30,	BODY TYPE must equal 80 for this vehicle.
(6Q0F)	PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 60-67, 71, 72, 78, 79,	SEATING POSITION must not equal 31-49.

IF	THEN
(7D0P) SPECIAL USE equals 06,	BODY TYPE must equal 11, 14-17, 19, 21, 22, 28, 29, 40, 41, 45, 48, 49, 61, 62, 64, 79, 98, 99. SEATING POSITION must not equal 12-50, 52-54.
(7Q0F) PERSON TYPE equals 09, and BODY TYPE equals 50-52, 55, 58, 59,	BODY TYPE must not equal 60-64, 66, 67, 71, 72, 78, 79, 99.
(8D0P) SPECIAL USE equals 08,	
(8L9P) <b>BODY TYPE does not equal 80-83, 88-91, and the CRASH EVENTS event equals 54, and the corresponding AREAS OF IMPACT (THIS VEHICLE) equals 19 in that row,</b>	<b>there should be a previous event with CRASH EVENTS event equal to 18 or 73 involving that vehicle.</b>
(8P0P) PERSON TYPE equals 01, and AGE is less than 008,	BODY TYPE must not equal 01-12, 14-17, 19-22, 28-33, 39-42, 45, 48-52, 55, 58-67, 71, 72, 78-83, 89, 92, 93. the other three must also equal Not Reported.
(920P) any one of the fields MAKE, MODEL, BODY TYPE, and MODEL YEAR, equals Not Reported [MAKE (97), MODEL (997), BODY TYPE (98), and MODEL YEAR (9998)],	
(930P) any one of the fields MAKE, MODEL, BODY TYPE, and MODEL YEAR, does not equal Not Reported [MAKE (97), MODEL (997), BODY TYPE (98), and MODEL YEAR (9998)],	the other three must also not be coded as Not Reported.
(960P) MAKE is not 98, 99, and equals _____, and MODEL equals _____,	BODY TYPE must equal _____.
(981P) BODY TYPE equals 80-83, 88, 89, 90, 91,	RESTRAINT SYSTEM/HELMET USE must equal 05, 16, 17, 19, 29, 97, 98.
(982P) BODY TYPE does not equal 80-83, 88, 89, 90, 91,	RESTRAINT SYSTEM/HELMET USE must not equal 05, 16, 17, 19, 29.
(A380) FIRST HARMFUL EVENT equals 01 and this vehicle is involved in the first harmful event, and BODY TYPE does not equal 80-89 for this vehicle, and RELATION TO TRAFFICWAY equals _____,	LOCATION OF ROLLOVER should equal _____ respectively.
(AE1P) VEHICLE CONFIGURATION equals 05-08,	BODY TYPE must equal 66.
(AF2P) VEHICLE CONFIGURATION equals 20, 21,	BODY TYPE must equal 20, 21, 50-52, 55, 58, 59.

	IF	THEN
(AH0P)	VEHICLE CONFIGURATION does not equal 00, 99,	BODY TYPE should equal 15, 16, 21, 28, 31, 40, 41, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 92, 93, or HM2 must equal 2.
(AH1P)	BUS USE equals 08,	BODY TYPE must equal 21, 22, 28, 29, 50-59.
(AH2P)	BUS USE equals 06,	BODY TYPE should equal 21, 52 or 55.
(AL0P)	CARGO BODY TYPE equals 22,	BODY TYPE must equal 21, 50-52, 55, 58, 59.
(AM0P)	CARGO BODY TYPE does not equal 00, 99,	BODY TYPE should equal 15, 16, 21, 28, 31, 40, 41, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 92, 93, or HM2 must equal 2.
(BE0P)	BODY TYPE equals 80-83, 88, 89,	EJECTION PATH must equal 0.
(BP0P)	MODEL YEAR is greater than 1999, and BODY TYPE does not equal 50-52, 58-66, 71-79, 80-83, 88-93, 95, 97, and SEATING POSITION equals 11, 13, 18, 19,	AIR BAG DEPLOYED should not equal 00.
(D270)	BODY TYPE equals 50-52, 55, 63, 66, 72, or HM1 equals 2,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.
(D440)	COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,	BODY TYPE should not equal 50-52, 55, 63, 66, 72, and HM2 should not equal 2.
(D560)	VIOLATIONS CHARGED equals 66,	BODY TYPE should equal 80-83, 88, 89.
(P01F)	PERSON TYPE equals 01-03, 09, and RESTRAINT SYSTEM/HELMET USE equals 01-04, 08, 10-12, and BODY TYPE does not equal 80-89,	EJECTION should equal 0 <b>or 7</b> .
(P094)	EJECTION equals 8,	SEATING POSITION must equal 55, or BODY TYPE must equal 80-83, 88, 89.
(P130)	BODY TYPE equals 60-67, 71, 72, 78, 79, and PERSON TYPE equals 01, 03, and INJURY SEVERITY equals 4,	FATAL INJURY AT WORK should equal 1.
(P180)	PERSON TYPE equals 01, and AGE is less than 009,	BODY TYPE should not equal 90.
(P230)	SEATING POSITION equals 21, 23, 28, 29, 31, 33, 38 or 39, and BODY TYPE equals 50-97,	AIR BAG DEPLOYED should equal 00.
(P290)	AIR BAG DEPLOYED equals 01-03, 07-09, 20, 28, and BODY TYPE equals 01-49 and MODEL YEAR equals 1998 or newer,	SEATING POSITION should equal 11, 13, 21, 23, 31 or 33.

	IF	THEN
(P310)	EJECTION equals 1-3, and BODY TYPE does not equal 90, 91, 97,	RESTRAINT SYSTEM/HELMET USE must not equal 05, 16, 17, 19, 29.
(U080)	BODY TYPE does not equal 50-59,	UNLIKELY: SPECIAL USE equals 02 or 03.
(U470)	UNLIKELY: BODY TYPE equals 98.	
(V020)	VEHICLE TRAILING equals 1,	BODY TYPE should not equal 50-52, 55, 80-83, 88-91.
(V031)	RELATED FACTORS-VEHICLE LEVEL equals 39,	BODY TYPE should not equal 01, 12, 13, 32, 33, 42, 50-52, 55, 58, 59, 65, 73, 80-83, 88-92.
(V032)	RELATED FACTORS-VEHICLE LEVEL equals 40,	BODY TYPE should not equal 01, 12, 13, 32, 33, 42, 50-52, 55, 58, 59, 60-67, 71-73, 78, 80-83, 88-93.
(V050)	RESTRAINT SYSTEM/HELMET USE equals 05, 16, 17, 19, 29,	BODY TYPE must equal 80-83, 88-91.
(V051)	BUS USE equals 01,	BODY TYPE should equal 21, 50 or 55.
(V052)	BUS USE equals 04,	BODY TYPE should equal 51.
(V053)	BUS USE equals 05,	BODY TYPE should equal 12, 16, 21, 51, 55 or 58.
(V054)	BUS USE equals 07,	BODY TYPE should equal 21, 22, 29, 50 -59.
(V055)	BUS USE equals 00,	BODY TYPE must not equal 50-59.
(V170)	NUMBER OF OCCUPANTS is less than 97, and VEHICLE TRAILING equals 0, and BODY TYPE equals 01-05, 07-09, 14, 15, 17, 19, 94, 95, 97,	NUMBER OF OCCUPANTS should not be greater than 8.
(V180)	NUMBER OF OCCUPANTS is less than 97, and VEHICLE TRAILING equals 0, and BODY TYPE equals 06, 11,	NUMBER OF OCCUPANTS should not be greater than 12.
(V190)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 12,	NUMBER OF OCCUPANTS should not be greater than 15.
(V200)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 80-83, 88, 89,	NUMBER OF OCCUPANTS should not be greater than 2.
(V210)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 15, 16, 42, 73,	NUMBER OF OCCUPANTS should not be greater than 12.

	IF	THEN
(V220)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 60-65, 71, 72, 79,	NUMBER OF OCCUPANTS should not be greater than 12.
(V230)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 66,	NUMBER OF OCCUPANTS should not be greater than 5.
(V240)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 91,	NUMBER OF OCCUPANTS should not be greater than 2.
(V250)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 90,	NUMBER OF OCCUPANTS should not be greater than 8.
(V260)	NUMBER OF OCCUPANTS is, 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 99,	NUMBER OF OCCUPANTS should not be greater than 5.
(V290)	BODY TYPE equals 90,	NUMBER OF OCCUPANTS should equal 01.
(V320)	BODY TYPE equals 50-52, 55, 58-66, 71-79 and SEATING POSITION does not equal 11, 13, 98,	AIR BAG DEPLOYED should equal 00.
(V330)	SCHOOL BUS RELATED equals 1,	BODY TYPE of at least one of the involved vehicles should equal 50 (School Bus) or SPECIAL USE for at least one involved vehicle should equal 02 - Vehicle Used as School Bus, and BUS USE for at least one vehicle should equal 01.
(V340)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 01-05, 07-09, 14, 15, 17, 19, 97, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 8.
(V350)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 06, 11, 16, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 12.
(V360)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 12, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 15.

	IF	THEN
(V370)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 80-83, 88, 89, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 02.
(V380)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 42, 73, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 12.
(V390)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 60-65, 71, 72, 79, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 12.
(V400)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 66, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 5.
(V410)	NUMBER OF OCCUPANTS is less than 01-96, and BODY TYPE equals 91, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 2.
(V420)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 90, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 8.
(V430)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 98, 99, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 5.
(V440)	BODY TYPE equals 50,	SCHOOL BUS RELATED should equal 1.
(V46P)	VEHICLE CONFIGURATION equals 21,	BODY TYPE must equal 21, 50-52, 55, 58, 59.
(V504)	GVWR/GCWR equals 1,	BODY TYPE should equal 01-22, 28-39, 41-49.
(V505)	GVWR/GCWR equals 9,	BODY TYPE should not equal 61-63, 66, 67.
(V506)	BODY TYPE equals 60,	GVWR/GCWR should equal 2.
(V507)	BODY TYPE equals 01-21, 28-30, 32-39, 45-49,	GVWR/GCWR should equal 0, 1.
(V50P)	BODY TYPE equals 61, 62, 67, 71, and VEHICLE CONFIGURATION does not equal 04,	GVWR/GCWR must equal 2, 9. (See GVWR/GCWR Remarks on how to use PCVina to determine GVWR.)

	IF	THEN
(V51P)	BODY TYPE equals 63, 66, 72,	GVWR/GCWR must equal 3. (See GVWR/GCWR Remarks on how to use PCVina to determine GVWR.)
(V540)	BODY TYPE equals 42, 65, 73, and HM1 equals 1,	GVWR/GCWR should equal 0.
(V56P)	VEHICLE CONFIGURATION equals 10,	BODY TYPE must equal 01-22, 28-49.
(V57P)	VEHICLE CONFIGURATION equals 05,	CARGO BODY TYPE must equal 12, 96, and BODY TYPE must equal 66.
(V58P)	VEHICLE CONFIGURATION equals 04,	BODY TYPE must not equal 66.
(V59P)	VEHICLE CONFIGURATION equals 06,	BODY TYPE must equal 66, and VEHICLE TRAILING must equal 1.
(V60P)	VEHICLE CONFIGURATION equals 07,	BODY TYPE must equal 66, and VEHICLE TRAILING must equal 2.
(V61P)	VEHICLE CONFIGURATION equals 08,	BODY TYPE must equal 66, and VEHICLE TRAILING must equal 3.
(V640)	VEHICLE CONFIGURATION does not equal 00, 99,	BODY TYPE should not equal 28, 30, 42, 45, 48, 49.
(V64P)	BODY TYPE equals 50-59, 60-64, 66-72, 78,	GVWR/GCWR must not equal 0, 1.
(V660)	CARGO BODY TYPE does not equal 00, 99,	BODY TYPE should not equal 28, 30, 42, 45, 48, 49.
(V790)	BODY TYPE equals 20,	VEHICLE CONFIGURATION should equal 00, and CARGO BODY TYPE should equal 00.
(V800)	BODY TYPE equals 21, 22, 28, 29,	VEHICLE CONFIGURATION should equal 00, 04, 10, 20, 21, 99, and CARGO BODY TYPE should equal 00, 01, 22, 99.
(V810)	BODY TYPE equals 67, and VEHICLE TRAILING equals 1-4,	VEHICLE CONFIGURATION should equal 04, and CARGO BODY TYPE should equal 01, 03, 04, 09.
(V840)	BODY TYPE equals 50-59,	VEHICLE CONFIGURATION should equal 21, and CARGO BODY TYPE should equal 22.
(V850)	BODY TYPE equals 60,	VEHICLE CONFIGURATION should equal 01, 03, 04, and CARGO BODY TYPE should equal 01.
(V860)	HIT-AND-RUN equals 0, and BODY TYPE equals 61-64,	VEHICLE CONFIGURATION should equal 01, 02, 04, and CARGO BODY TYPE should equal 01-10, 12, 96-98.

	<b>IF</b>	<b>THEN</b>
(V870)	BODY TYPE equals 65,	VEHICLE CONFIGURATION should equal 00, and CARGO BODY TYPE should equal 00.
(V880)	HIT-AND-RUN equals 0, and BODY TYPE equals 66,	VEHICLE CONFIGURATION should equal 05-08, 19, and CARGO BODY TYPE should equal 01-04, 06-12, 96-98.
(V890)	BODY TYPE equals 71, 72,	VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 01-04, 08, 10, 96-98.
(V900)	BODY TYPE equals 73,	VEHICLE CONFIGURATION should equal 00, and CARGO BODY TYPE should equal 00.
(V910)	BODY TYPE equals 78,	VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 98.
(V915)	BODY TYPE equals 67, and VEHICLE TRAILING equals 0,	VEHICLE CONFIGURATION should equal 01, and CARGO BODY TYPE should equal 97.
(V920)	BODY TYPE equals 79,	VEHICLE CONFIGURATION should equal 99, and CARGO BODY TYPE should equal 99.
(V930)	VEHICLE CONFIGURATION equals 00, or CARGO BODY TYPE equals 00,	BODY TYPE should not equal 50-64, 66-72, 78, 79.
(V950)	VEHICLE MODEL YEAR is less than 1994, and SEATING POSITION equals 31, 33, 39,	RESTRAINT SYSTEM/HELMET USE should not equal 01, 03, and BODY TYPE should equal 12, 15, 16, 19-21.
(V961)	MAKE equals 98, 99, and MODEL equals____,	BODY should equal_____.
(V980)	BODY TYPE equals 50-52, 55, 58-64, 66, 67, 71, 72, 78, 93, or HM1 equals 2,	MOTOR CARRIER IDENTIFICATION NUMBER must not equal 00-00000000.
(VH06)	BODY TYPE equals 82,	RELATED FACTORS-VEHICLE LEVEL must not equal 30.

#### Consistency Checks (GES Only):

	<b>IF</b>	<b>THEN</b>
(5A1P)	BODY TYPE equals 60-79, and UNIT TYPE equals 1,	FINAL STRATUM should not equal 1, 3, 5 or 6.
(5A2P)	FINAL STRATUM equals 2,	there must exist at least one vehicle where BODY TYPE equals 60-79, and UNIT TYPE equals 1.

IF	THEN
(5A3P) FINAL STRATUM equals 1, 5 or 6,	there should exist at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2.
(5A4P) FINAL STRATUM equals 1,	there should exist: 1) at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 4 for at least one occupant of that vehicle; or 2) one and only one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 3 for at least one occupant of that vehicle; or 3) 2 or more vehicles where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and at least 2 vehicles where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 3 for at least one occupant of a vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2.
(5A5P) FINAL STRATUM equals 5,	there should exist at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 1, 2, 3 or 5 for at least one occupant of that vehicle.
(5A9P) FINAL STRATUM equals 4, and INJURY SEVERITY equals 1,	there should exist no vehicles where BODY TYPE equals 60-79, and UNIT TYPE equals 1.
(V941) BODY TYPE equals 90 or 91,	VEHICLE LICENSE PLATE NUMBER should equal 0000000000.
(VH88) <b><i>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49 or 60-79,</i></b>	<b><i>STRATUM should not equal 4.</i></b>

	IF	THEN
(VH89)	<i>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49,</i>	<i>STRATUM should not equal 3.</i>
(VH90)	<i>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49 or 60-79,</i>	<i>FINAL STRATUM must not equal 4.</i>
(VH91)	<i>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49,</i>	<i>FINAL STRATUM must not equal 3.</i>

## **VEHICLE MODEL YEAR**

**FORMAT:** 4 numeric

**SAS NAME:** Vehicle.MOD\_YEAR, Person MOD\_YEAR, Parkwork.PMODYEAR

**ELEMENT VALUES:**

Actual Four Digit Model Year	
9998	Not Reported
9999	Unknown

**Definition:** This element identifies the manufacturer's model year of this vehicle.

**Remarks:**

**SEE ADDITIONAL REMARKS BEFORE VEHICLE MAKE – V9**

**9998 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported**”.

Code **9998 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

Code all four digits of the model year for which the vehicle was manufactured.

A vehicle manufactured as a 1985 model is to be coded as “1985.”

**Consistency Checks:**

**IF**

**THEN**

(1C0P) the MODEL YEAR is not equal to  
9998 or 9999,

the MODEL YEAR must not be greater  
than CRASH YEAR plus ONE.

	IF	THEN
(900P)	VEHICLE IDENTIFICATION NUMBER (VIN) does not equal 0's, 8's or 9's and VEHICLE MODEL YEAR is a valid year and greater than or equal to 1980 and VEHICLE MODEL YEAR equals _____,	the 10th digit of the valid VEHICLE IDENTIFICATION NUMBER (VIN) should equal _____ (contact Headquarters for VIN Assistance).
(920P)	any one of the fields MAKE, MODEL, BODY TYPE, and MODEL YEAR, equals Not Reported [MAKE (97), MODEL (997), BODY TYPE (98), and MODEL YEAR (9998)],	the other three must also equal Not Reported.
(921P)	MAKE is not 97, 98, 99, and equals ___, and MODEL equals ___,	MODEL YEAR must equal ___, or CRASH YEAR plus 1.
(930P)	any one of the fields MAKE, MODEL, BODY TYPE, and MODEL YEAR, does not equal Not Reported [MAKE (97), MODEL (997), BODY TYPE (98), and MODEL YEAR (9998)],	the other three must also not be coded as Not Reported.
(BP0P)	MODEL YEAR is greater than 1999, and BODY TYPE does not equal 50-52, 58-66, 71-79, 80-83, 88-93, 95, 97, and SEATING POSITION equals 11, 13, 18, 19,	AIR BAG DEPLOYED should not equal 00.
(P290)	AIR BAG DEPLOYED equals 01-03, 07-09, 20, 28, and BODY TYPE equals 01-49 and MODEL YEAR equals 1998 or newer,	SEATING POSITION should equal 11, 13, 21, 23, 31 or 33.
(U490)	UNLIKELY: GVWR/GVCR equals 8 and VEHICLE MODEL YEAR is greater than 1980 and not equal to 9998 or 9999 and VEHICLE IDENTIFICATION NUMBER does not equal 0's, 8's or 9's.	
(U510)	UNLIKELY: VEHICLE MODEL YEAR equals 9998.	
(V010)	MODEL YEAR should not be less than 1940.	
(V011)	VEHICLE MODEL YEAR is less than 1950,	VEHICLE IDENTIFICATION NUMBER must equal 0s.
(V620)	CRASH MONTH is between January and March,	the VEHICLE MODEL YEAR should NOT be greater than the CRASH YEAR unless it equals 9998 or 9999 (contact Coding Assistance).
(V922)	MAKE equals 98, 99, and MODEL equals _____,	MODEL YEAR should equal ___.
(V950)	VEHICLE MODEL YEAR is less than 1994, and SEATING POSITION equals 31, 33, 39,	RESTRAINT SYSTEM/HELMET USE should not equal 01, 03, and BODY TYPE should equal 12, 15, 16, 19-21.

## **VEHICLE IDENTIFICATION NUMBER**

**FORMAT:** 17 alphanumeric

**SAS NAME:** Vehicle.VIN, Parkwork.PVIN

**ELEMENT VALUES:**

0000000000000000000	No VIN Required
	Any Alphanumeric Characters – Actual VIN number
8888888888888888888	Not Reported
9999999999999999999	Unknown

**Definition:** This element records the vehicle identification number (VIN) of this vehicle.

**Remarks:**

**SEE ADDITIONAL REMARKS BEFORE VEHICLE MAKE – V9**

*Code the complete VIN. The VIN is always left-justified.*

*Trailer VINs are not coded.*

*If the VIN for the power unit of a combination vehicle is not available, code 8's (Not Reported) rather than the trailer VIN.*

*Vehicles manufactured after September 1980 conform to Federal Motor Vehicle Safety Standard 115. This standard requires that each VIN have 17 characters, not contain the letter "I", "O" or "Q", and pass a mathematical test (check digit). If the VIN is less than 17-characters long (pre-1981 VIN), do not zero-fill. Instead, leave the remaining characters blank.*

*Only enter 8s (Not Reported) or 9s (Unknown) when the entire VIN is missing or unknown.*

*Enter all 0s (No VIN Required) if the vehicle is not required to have a VIN as per FMVSS 115 or the vehicle does not require registration (farm tractors, go-carts, etc.).*

***NOTE:** For any multi-stage manufactured vehicle (e.g., school bus, motor home, limousine, tow truck, etc.), enter the VIN for the vehicle's power unit/chassis. Do not code the secondary manufacturer's serial number, which is not considered a VIN under FMVSS 115.*

If the vehicle is manufactured by the Ford Motor Company and the VIN begins or ends with a script “f”, the script “f” is *not entered*.

Proceed to the next character, as in the example below.

VIN: *f*3U62S100932*f*

ENTER: 3U62S100932

In addition, if any hyphens or periods are contained in the string of alphanumeric characters, ignore them as in the example below.

VIN: SM-E.3076421

ENTER: SME3076421

### **8s (Not Reported)**

If a state’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported**”.

Code **8s (Not Reported)** in these *three* situations:

1. No field or coding block exists on the state’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials), **or**
2. A field or coding block exists on the state’s crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials), **or**
3. ***Information on the PAR has been sanitized/redacted and no other information is available in the case materials.***

**9s (Unknown)** is used when the entire VIN is reported as Unknown or this is a hit-and-run vehicle, with no information available.

### **FARS SPECIAL INSTRUCTION:**

If the state will not allow transmittal of a complete standard VIN, code the right-most four characters as numeric zeroes. The vehicle registration file must be used to verify the VIN.

### **GES SPECIAL INSTRUCTION:**

Leave “Blank” any column which does not have a VIN character. If part of the VIN is missing or not decipherable, leave the column any such character would ordinarily occupy “Blank.” In the special case where the first 11 columns of the VIN are blank, but part or all of columns 12 through 17 contain information, code Unknown instead of the partial information contained in the columns 12 through 17 of the VIN.

If the information from PC VINA or VINASSIST and the PAR are inconsistent, use the following guidelines:

- Make and model on the PAR takes precedence over the make and model indicated by the VIN.
- Model year - Use model year as indicated by VIN if the VIN Make and Model matches the make and model shown on the PAR.
- Body type - Use body type indicated by the VIN if the VIN Make and Model matches the make and model shown on the PAR.

If the information about make and model on the PAR is inconsistent, model takes precedence over the make.

### **Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(900P)	VEHICLE IDENTIFICATION NUMBER (VIN) does not equal 0's, 8's or 9's and VEHICLE MODEL YEAR is a valid year and greater than or equal to 1980 and VEHICLE MODEL YEAR equals_____.	the 10th digit of the valid VEHICLE IDENTIFICATION NUMBER (VIN) should equal _____ (contact Headquarters for VIN Assistance).
(U490)	UNLIKELY: GVWR/GCWR equals 8 and VEHICLE MODEL YEAR is greater than 1980 and not equal to 9998 or 9999 and VEHICLE IDENTIFICATION NUMBER does not equal 0's, 8's or 9's.	
(V011)	VEHICLE MODEL YEAR is less than 1950,	VEHICLE IDENTIFICATION NUMBER must equal 0s.
(V280)	Possible error in VIN digit check	
(V300)	Possible error in VIN Production Number.	
(V62P)	CARGO BODY TYPE equals 01-12, 97, 98, and VEHICLE IDENTIFICATION NUMBER does not equal Not Reported or Unknown,	GVWR/GCWR must equal 2, 3.

### **Consistency Checks (FARS Only):**

	<b>IF</b>	<b>THEN</b>
(V270)	Possible error in VIN character types or number of characters.	

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## **VEHICLE TRAILING**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.TOW\_VEH; Person.TOW\_VEH; Parkwork.PTRAILER

**ELEMENT VALUES:**

- 0 No Trailing Units
- 1 One Trailing Unit
- 2 Two Trailing Units
- 3 Three or more Trailing Units
- 4 Yes, Number of Trailing Units Unknown
- 5 Vehicle Towing Another Motor Vehicle - Fixed Linkage
- 6 Vehicle Towing Another Motor Vehicle - Non-Fixed Linkage
- 9 Unknown

**Definition:** This element identifies whether or not this vehicle had any attached trailing units or was towing another motor vehicle.

**Remarks:**

Trailing unit applies to any device connected to a motor vehicle by a hitch, including tractor-trailer combinations, a single-unit truck pulling a trailer (truck trailer), a boat trailer hitched onto a motor vehicle, etc.

If the case materials do not provide sufficient information if the linkage was fixed or not, consider the linkage as fixed.

A vehicle towing another motor vehicle is not considered to be a trailer but is considered to be a towed vehicle (see **5 (Vehicle Towing Another Motor Vehicle - Fixed Linkage)** or **6 (Vehicle Towing Another Motor Vehicle - Non-Fixed Linkage)**).

A converter dolly is a device used to hitch a trailer to another semi-trailer or straight truck and is not counted as a separate trailing unit. For combination vehicles (medium/heavy trucks), count only the cargo-carrying units.

**0 (No Trailing Units)** is used when this vehicle was not pulling or towing a wheeled unit.

**1 (One Trailing Unit)** is used when one trailer was being pulled by this vehicle.

**2 (Two Trailing Units)** is used when this vehicle was pulling two trailers.

**3 (Three or More Trailing Units)** is used when this vehicle was pulling three or more trailers.

**4 (Yes, Number of Trailing Units Unknown)** is used when it is known that there was a trailer(s) but the number of trailers cannot be determined.

**5 (Vehicle Towing Another Motor Vehicle - Fixed Linkage)** is used to identify that a vehicle was towing another motor vehicle(s) connected by a fixed linkage. The towed vehicle will have two or more wheels on the ground. This will most commonly apply to drive-away/tow-away tow trucks. These are vehicles equipped with a mechanism designed to be attached to a towed vehicle (e.g., hoist). This attribute would also be used for saddle-mounted towed vehicles. An example of a saddle-mount unit would be a bobtail towing one or more other bobtails. This attribute does not apply to vehicles towed by being loaded on a flatbed or auto transporter.

**6 (Vehicle Towing Another Motor Vehicle - Non-Fixed Linkage)** is used to identify that a vehicle was towing another motor vehicle(s) connected by a non-fixed linkage. A non-fixed linkage includes ropes, chains or cables.

**9 (Unknown)** is used when it cannot be determined from any information if a unit was being pulled or towed.

#### **FARS SPECIAL INSTRUCTION:**

For vehicles being towed by an illegal hitch (rope, chain, cable), use the **22 (Towing or Pushing Improperly)** for the data element Related Factors-Driver Level.

#### **GES SPECIAL INSTRUCTION:**

The intent of this data element is to determine if the vehicle was pulling a trailing unit. If the linkage is fixed, then the trailing unit is considered a towed unit. If the linkage is not fixed (e.g., one vehicle is pulling another using a rope), then each vehicle is considered to be separate.

#### **Consistency Checks:**

<b>IF</b>	<b>THEN</b>
(2B0P) JACKKNIFE equals 1-3,	VEHICLE TRAILING must not equal 0, 9.
(4C1P) NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 01-05, 07-09, 14, 15, 17, 19, 94, 95, 97, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 20.
(4C2P) NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 06, 11, 16, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 22.

	IF	THEN
(4C3P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 12, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 25.
(4C4P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 80-83, 88, 89, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 5.
(4C5P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 42, 73, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 30.
(4C6P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 60-65, 71, 72, 79, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 55.
(4C7P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 66, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 77.
(4C8P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 91, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 10.
(4C9P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 90, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 20.
(4C0P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 99, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS must not be greater than 10.
(4F1P)	NUMBER OF OCCUPANTS is less than 97, and BODY TYPE equals 01-05, <b>07-10, 13, 17, 80-83, 88-90, 91-95</b> , 97, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS <u>must not</u> be greater than 15.
(4F2P)	NUMBER OF OCCUPANTS is less than 97, and BODY TYPE equals 06, 11, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 22.
(4F3P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 12, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 25.

	IF	THEN
(4F4P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 80-83, 88, 89, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 5.
(4F5P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 15, 16, 42, 73, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 30.
(4F6P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 60-65, 71, 72, 79, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 55.
(4F7P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 66, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 50.
(4F8P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 91, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 10.
(4F9P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 90, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 20.
<b>(4F9Q)</b>	<b><i>NUMBER OF OCCUPANTS is less than 97, and BODY TYPE equals 06, 11, 12, 14-16, 19, and VEHICLE TRAILING equals 0,</i></b>	<b><i>NUMBER OF OCCUPANTS should not be greater than 15.</i></b>
(4F0P)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 99, and VEHICLE TRAILING equals 0,	NUMBER OF OCCUPANTS must not be greater than 10.
(4R0P)	SEATING POSITION equals 54,	VEHICLE TRAILING must not equal 0.
(5B0P)	JACKKNIFE equals 0 and BODY TYPE equals 66,	VEHICLE TRAILING must not equal 1-4.
(5B0Q)	JACKKNIFE equals 0,	VEHICLE TRAILING must equal 0 or 9.
(AD0P)	VEHICLE CONFIGURATION equals 04, 06-08,	VEHICLE TRAILING must not equal 0.
(AE0P)	VEHICLE CONFIGURATION equals 05, and CARGO BODY TYPE does not equal 12,	VEHICLE TRAILING must equal 0.
(AL1P)	SEQUENCE OF EVENTS equals 51, 62, 70,	VEHICLE TRAILING must not equal 0.
(CI0P)	VEHICLE TRAILING equals 1-4,	JACKKNIFE must not equal 0.
(V020)	VEHICLE TRAILING equals 1,	BODY TYPE should not equal 50-52, 55, 80-83, 88-91.

	<b>IF</b>	<b>THEN</b>
(V170)	NUMBER OF OCCUPANTS is less than 97, and VEHICLE TRAILING equals 0, and BODY TYPE equals 01-05, 07-09, 14, 15, 17, 19, 94, 95, 97,	NUMBER OF OCCUPANTS should not be greater than 8.
(V180)	NUMBER OF OCCUPANTS is less than 97, and VEHICLE TRAILING equals 0, and BODY TYPE equals 06, 11,	NUMBER OF OCCUPANTS should not be greater than 12.
(V190)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 12,	NUMBER OF OCCUPANTS should not be greater than 15.
(V200)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 80-83, 88, 89,	NUMBER OF OCCUPANTS should not be greater than 2.
(V210)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 15, 16, 42, 73,	NUMBER OF OCCUPANTS should not be greater than 12.
(V220)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 60-65, 71, 72, 79,	NUMBER OF OCCUPANTS should not be greater than 12.
(V230)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 66,	NUMBER OF OCCUPANTS should not be greater than 5.
(V240)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 91,	NUMBER OF OCCUPANTS should not be greater than 2.
(V250)	NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 90,	NUMBER OF OCCUPANTS should not be greater than 8.
(V260)	NUMBER OF OCCUPANTS is, 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 99,	NUMBER OF OCCUPANTS should not be greater than 5.
(V340)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 01-05, 07-09, 14, 15, 17, 19, 97, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 8.

	IF	THEN
(V350)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 06, 11, 16, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 12.
(V360)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 12, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 15.
(V370)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 80-83, 88, 89, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 02.
(V380)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 42, 73, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 12.
(V390)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 60-65, 71, 72, 79, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 12.
(V400)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 66, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 5.
(V410)	NUMBER OF OCCUPANTS is less than 01-96, and BODY TYPE equals 91, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 2.
(V420)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 90, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 8.
(V430)	NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 98, 99, and VEHICLE TRAILING does NOT equal 0,	NUMBER OF OCCUPANTS should not be greater than 5.
(V59P)	VEHICLE CONFIGURATION equals 06,	BODY TYPE must equal 66, and VEHICLE TRAILING must equal 1.
(V60P)	VEHICLE CONFIGURATION equals 07,	BODY TYPE must equal 66, and VEHICLE TRAILING must equal 2.
(V61P)	VEHICLE CONFIGURATION equals 08,	BODY TYPE must equal 66, and VEHICLE TRAILING must equal 3.
(V68P)	CARGO BODY TYPE equals 12,	VEHICLE TRAILING must equal 5.

IF	THEN
(V810) BODY TYPE equals 67, and VEHICLE TRAILING equals 1-4,	VEHICLE CONFIGURATION should equal 04, and CARGO BODY TYPE should equal 01, 03, 04, 09.
(V915) BODY TYPE equals 67, and VEHICLE TRAILING equals 0,	VEHICLE CONFIGURATION should equal 01, and CARGO BODY TYPE should equal 97.
(V983) VEHICLE TRAILING equals 3,	STATE should equal 04, 08, 16, 18, 20, 30-32, 38-41, 46, 49.
(V984) STATE does not equal 04, 08, 16, 18, 20, 30-32, 38-41, 46, 49,	VEHICLE TRAILING should not equal 3.
(V985) VEHICLE TRAILING equals 5,	VEHICLE CONFIGURATION should not equal 00, 10, 19-21.
(V991) VEHICLE TRAILING equals 0,	VEHICLE CONFIGURATION must not equal 04, 06-08.
(V992) VEHICLE TRAILING equals 1,	VEHICLE CONFIGURATION must not equal 01, 02, 05, 07 or 08.
(V993) VEHICLE TRAILING equals 2,	VEHICLE CONFIGURATION must not equal 01, 02, 05, 06 or 08.
(V994) VEHICLE TRAILING equals 3,	VEHICLE CONFIGURATION must not equal 01, 02, 05-07.
(V995) VEHICLE TRAILING equals 4,	VEHICLE CONFIGURATION must not equal 01, 02, 05-08.
(V997) VEHICLE TRAILING equals 6,	VEHICLE CONFIGURATION must not equal 04, 06-08.
(V998) VEHICLE TRAILING equals 9,	VEHICLE CONFIGURATION must not equal 04-07 or 08.

**Consistency Check (GES Only):**

IF	THEN
(V986) VEHICLE TRAILING equals 3,	PSU should equal 29, 30, 31, 64, 73, 74, 75, 76, 77, 78, 94.

**Consistency Checks (FARS Only):**

IF	THEN
(V16P) RELATED FACTORS-DRIVER LEVEL equals 88,	VEHICLE TRAILING must not equal 0, 9.

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## **JACKKNIFE**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.J\_KNIFE

**ELEMENT VALUES:**

- 0 Not an Articulated Vehicle
- 1 No
- 2 Yes - First Event
- 3 Yes - Subsequent Event

**Definition:** This element identifies if this vehicle experienced a "jackknife" anytime during the unstabilized situation.

**Remarks:**

Jackknife can occur at any time during the crash sequence. This element is applicable for all power unit/trailing unit combinations (e.g., truck tractor or single-unit truck with one or more trailers, articulated bus, car pulling a boat on a trailer, light utility vehicle/trailing unit combination, etc.).

Jackknife applies to a condition that occurs to an articulated vehicle, any vehicle with a trailing unit connected by a hitch (fixed linkage) while in motion. A jackknife occurs when there is an uncontrolled articulation between the power unit and the trailing unit in which the trailing unit does not follow directly behind the power unit (tracking), and the driver did not initiate the non-tracking situation. The condition reflects a loss of control of the vehicle by the driver in which the trailing units' normal straight-line path behind the power unit is not maintained.

If the final resting configuration of the vehicle in the PAR diagram is in a jackknife position, it does not necessarily mean that the vehicle has jackknifed. Turning and backing are examples of driver initiated non-tracking controlled articulation and are not coded as a jackknife.

In the case materials, the terms "tractor jackknife" or "trailer swing" may be used to describe particular incidences of uncontrolled articulation. Either incident shall be coded as Jackknife. Jackknife is not likely to be a harmful event but may be part of an unstabilized condition just before the first harmful event.

**10 (Not an Articulated Vehicle)** is used when this vehicle is not a vehicle-trailing unit combination. This attribute can also be used when coding a hit-and-run vehicle when there is not an indication in the case materials that the hit and run vehicle had a trailer.

**1 (No)** is used when no uncontrolled articulation was reported between a vehicle and a trailing unit.

**2 (Yes - First Event)** is used when an uncontrolled articulation was reported as occurring before or as part of the first injury or damage producing event for this vehicle.

**3 (Yes - Subsequent Event)** is used when an uncontrolled articulation occurs after the first injury or damage producing event for this vehicle.

**\*Note:** In 2011 GES adopted the FARS element format. Prior to 2011 the GES Jackknife data element contained two attributes. Those attributes were 0 (No Jackknife Noted on the PAR) and 1 (Jackknife Occurred).

### **Consistency Checks:**

<b>IF</b>	<b>THEN</b>
(2B0P) JACKKNIFE equals 1-3,	VEHICLE TRAILING must not equal 0, 9.
(3B0P) JACKKNIFE equals 2, 3,	TRAVEL SPEED must not equal 000.
(5B0P) JACKKNIFE equals 0 and BODY TYPE equals 66,	VEHICLE TRAILING must not equal 1-4.
(5B0Q) JACKKNIFE equals 0,	VEHICLE TRAILING must equal 0 or 9.
(7B0F) JACKKNIFE equals 2, 3,	DRIVER PRESENCE must equal 1.
(AK00) CARGO BODY TYPE equals 22, 96,	JACKKNIFE should equal 0.
(AL8P) SEQUENCE OF EVENTS equals 51, 70,	JACKKNIFE must equal 2, 3.
(CI0P) VEHICLE TRAILING equals 1-4,	JACKKNIFE must not equal 0.
(V538) JACKKNIFE equals 2,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 04, 05, 07-09 or 13 for this vehicle.
(VH70) UNIT TYPE equals 2-4,	elements V15, V24, V31 must all be left blank.

## **MOTOR CARRIER IDENTIFICATION NUMBER**

**FORMAT:** 1 set 2 numeric, 1 set 9 alphanumeric

**SAS NAME:** Vehicle.MCARR\_ID, parkwork.PMCARR\_ID, Vehicle.MCARR\_I1;  
parkwork.PMCARR\_I1, Vehicle.MCARR\_I2; parkwork.PMCARR\_I2

**ELEMENT VALUES:**

<u>Issuing Authority:</u>	
00	Not Applicable
01-56	State Code
57	US DOT
58	MC/MX (ICC)
95	Canada
96	Mexico
88	None
77	Not Reported
99	Unknown

Identification Number:

Actual Number	
0s	Not Applicable
8s	None
7s	Not Reported
9s	Unknown

**Definition:** This element records the issuing authority and motor carrier identification number if applicable to this vehicle.

**Remarks:**

The Motor Carrier Identification Number is recorded on the Truck Supplement or PAR next to the appropriate Source (Issuing Authority.) This information should be available on your Police Accident Report (PAR) or Truck and Bus Supplement with other elements required by the Federal Motor Carrier Safety Administration (FMCSA). You should expect to find motor carrier identification numbers for the following qualifying vehicles:

1. Light trucks pulling a trailer with gross combination weight rating (GCWR) greater than 10,000 lbs.
2. Medium/Heavy Trucks: vehicles with GVWR greater than 10,000 lbs.
3. Buses with 9 or more seats (including the driver).
4. Light Trucks, Vans and Passenger Vehicles displaying a hazardous materials placard.

Federal regulations require that almost all commercial trucks/buses operating across state lines that meet the above criteria (i.e., interstate) have Identification Numbers except those hauling "exempt" commodities (such as unprocessed agricultural products). This will be a US DOT or MC/MX (ICC) Number. Some states issue "Intrastate" motor carriers a state number that can also be recorded here.

**Identification Number should be left justified.** If less than 9 characters, left-justify and do not zero-fill.

### Examples of Left-Justified Coding of Identification Number

Supplement/PAR	Coding
0 0 3 5 1 8	0 0 3 5 1 8
3 5 1 8	0 0 0 3 5 1 8
3 5 1 8	3 5 1 8
3 5 8 1 0 0 0	3 5 8 1 0 0 0
Nebraska issued Intrastate DOT # 3 5 8 1 6 4 N E	3 5 8 1 6 4 N E

Note: Many carriers will have a US DOT or MC/MX (ICC) Number plus a State Number.

**HIERARCHY:** When Identification Numbers are available from more than one Source (Issuing Authority), it is most important to code the US DOT number then the MC/MX (ICC) number if one is available. It is next most important to code the Mexican or Canadian issued number. Finally, State-issued numbers should be coded.

**57(US DOT NUMBERS): US DOT** is used in "Issuing Authority" if a US DOT Number or a State Number and US DOT Number are recorded on the PAR or Supplement. Enter the US DOT Number in "Identification Number."

- US DOT Numbers are in the process of being assigned to Intrastate motor carriers in a number of states. These should include the issuing state's two-character abbreviation on the end; e.g., US DOT 123456XX (where "XX" is the State abbreviation). See example of proper coding in diagram above.

**58(MC/MX (ICC) NUMBERS): MC/MX (ICC)** is used in "Issuing Authority" if an MC/MX (ICC) Number or a State Number and an MC/MX (ICC) Number are recorded on the PAR or Supplement. Enter the MC/MX (ICC) Number in "Identification Number."

**STATE NUMBERS:** If only a State Number is recorded on the PAR or Supplement, then code the appropriate FARS State Code in "Issuing Authority" and enter the State Number in "Identification Number."

State Numbers are issued by a public utility commission, a public service commission, or some other state agency, to vehicles that operate either in interstate commerce or only within that state. However, some states do not regulate the motor carrier industry. Trucks and buses that operate strictly within such states (i.e., intrastate) may not have numbers.

**CANADIAN/MEXICAN NUMBERS:** Use attributes "95" or "96" in "Issuing Authority" if a Canadian or Mexican authority (respectively) has issued the only Carrier Identification Number recorded on the PAR or Supplement.

**00/0s (Not Applicable)** would apply when you would never expect this style of vehicle to have a Motor Carrier ID number (cars, motor homes, etc.). This vehicle would not appear on a truck supplement (supplemental truck elements on the PAR would be coded N/A).

**88/8s (None)** should be used when:

- you could expect this type of vehicle to have an ID Number, but it is exempt because of its use or activity at the time of the crash;
- this type of vehicle often does have a number (but vehicle is operated strictly intrastate and activity not regulated); or
- the PAR/supplement states "No Number."

**Note:** In some states, school buses are exempt from requiring a Motor Carrier ID Number

**99/9s (Unknown)** is used if the investigating officer reported the motor carrier identification number as unknown or when the body type of the vehicle is unknown.

**Example:**

- An unidentified hit-and-run vehicle.

### **77/7s (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **77/7s (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

Note: For this element, **Not Reported** is used when you could expect this type of vehicle to have a Motor Carrier ID Number, but:

- the PAR or truck supplement leaves the field blank; or
- you don't have a supplement or a field on the PAR (no further information given).

### **FARS SPECIAL INSTRUCTION:**

If your state uses separate Truck/Bus Supplements, you should seek help to get routine access to them, just as with your state's PAR. Your state's SAFETYNET representative may be able to provide a Motor Carrier Identification Number.

### **GES SPECIAL INSTRUCTION:**

**Issuing Authority and 8s (None) under Identification Number are new to GES in 2011.**

#### **Consistency Checks:**

IF	THEN
(4N1P) VEHICLE CONFIGURATION does not equal 00,	MOTOR CARRIER IDENTIFICATION NUMBER must not equal 00-000000000.
(4N2P) MOTOR CARRIER IDENTIFICATION NUMBER equals 00-000000000,	VEHICLE CONFIGURATION must equal 00.
(4N3P) MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) equals 000000000,	MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) must equal 00.
(4N4P) MOTOR CARRIER IDENTIFICATION NUMBER does not equal 00-000000000,	BODY TYPE must equal 21, 28, 31, 40, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 79, 92, 93, 99, or HM2 must equal 2.
(4N5P) BODY TYPE does not equal 21, 28, 31, 40, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 92, 93, or HM2 does not equal 2,	MOTOR CARRIER IDENTIFICATION NUMBER must equal 00-000000000, 99-999999999.
(4N6P) MOTOR CARRIER IDENTIFICATION NUMBER equals 77-777777777,	BODY TYPE should equal 28, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 93, or HM1 should equal 2.
(4N7P) MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) equals 888888888 or 777777777 or 999999999,	MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) should be filled respectively as 88 or 77 or 99.

	IF	THEN
(4NAP)	MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) equals 01-58, 95, 96,	MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) should not equal 888888888, 777777777, 999999997, 999999999.
(4NBP)	MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) equals 01-58, 95, 96	MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) must not equal 000000000.
(4NCP)	MOTOR CARRIER IDENTIFICATION NUMBER ( Issuing Authority) is 00 or 77 or 88 or 99,	MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) must be filled respectively as 000000000 or 777777777 or 88888888 or 999999999.
(U680)	UNLIKELY: MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) equals 999999997.	
(V980)	BODY TYPE equals 50-52, 55, 58-64, 66, 67, 71, 72, 78, 93, or HM1 equals 2,	MOTOR CARRIER IDENTIFICATION NUMBER must not equal 00-000000000.
(V981)	VEHICLE CONFIGURATION equals 00,	MOTOR CARRIER IDENTIFICATION NUMBER should equal 00-000000000.
(V982)	MOTOR CARRIER IDENTIFICATION NUMBER does not equal 00-000000000,	VEHICLE CONFIGURATION should not equal 00.

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## **GROSS VEHICLE WEIGHT RATING/ GROSS COMBINATION WEIGHT RATING**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.GVWR, parkwork.PGVWR

**ELEMENT VALUES:**

- 0 Not Applicable
- 1 10,000 lbs. or less
- 2 10,001 lbs. – 26,000 lbs.
- 3 26,001 lbs. or more
- 8 Not Reported
- 9 Unknown

**Definition:** This element identifies the gross vehicle weight rating of this vehicle when applicable.

**Remarks:**

Record the applicable weight range for a single vehicle's Gross Vehicle Weight Rating (GVWR) or combination vehicle's Gross Combination Weight Rating (GCWR).

It may appear as a numeric value or as a range of values like those displayed above. This information should be available on your Police Accident Report (PAR) or Truck and Bus Supplement with other elements required by the Federal Motor Carrier Safety Administration (FMCSA).

**Gross Vehicle Weight Rating (GVWR)** is the value specified by the manufacturer as the recommended maximum loaded weight of a single motor vehicle.

**Gross Combination Weight Rating (GCWR)** is the value specified by the manufacturer(s) as the recommended maximum loaded weight of a combination (articulated) motor vehicle. This is for truck tractors and single-unit trucks pulling a trailer(s). GCWR is the sum of the gross vehicle weight ratings (GVWR) of all units, power unit and its trailer(s).

For Truck/Trailer Combinations: If your state records the GVWR of the power unit and trailer(s) in separate fields, be sure to add together the GVWRs of all the units when recording this element.

**0 (Not Applicable)** should be used for vehicles 10,000 lbs. or less, not displaying a hazardous materials placard, for buses less than 9 seats (including driver), and for all motor homes.

**1 (10,000 lbs. or less)** should be used for passenger cars and light trucks with 10,000 lbs. or less GVWR/GCWR when displaying a hazardous materials placard or for buses with 9 or more seats (including driver) with 10,000 lbs. GVWR or less.

**8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**9 (Unknown)** should be used when GVWR/GCWR information is reported as "Unknown" on your PAR or Truck/Bus Supplement and PCVINA is unable to return a value.

**PROCEDURE FOR VERIFICATION OF GVWR/GCWR RANGE:**

The MDE provides PCVINA codes for GVWR. Next to Vehicle Identification Number (VIN), click on check box, and then click on "Gross Vehicle Weight" under the "R. L. Polk" column. Use the table below to translate the code for GVWR.

**NOTE:** PCVINA only provides the GVWR of a single vehicle or the GVWR of the power unit in a combination unit motor vehicle.

- For Truck / Trailer Combinations:
  1. If the PCVINA VIN return fits within the range provided on the PAR or Truck and Bus supplement, use that value.
  2. If the PCVINA VIN return falls below the range provided on the PAR or Truck and Bus Supplement, use the value provided on the crash report to account for the addition of the trailer's GVWR.
- If GVWR/GCWR information is unavailable or not reported on your PAR or Truck/Bus Supplement, and you have a valid VIN utilize the information on the power unit provided by PCVINA to code this element

See Comparison of PCVINA and Codes for GVWR/GCWR below.

#### **COMPARISON OF PCVINA AND CODES FOR GVWR/GCWR**

<b>PCVINA (trucks only)</b>	<b>FARS/GES CODES</b>
	0 – Not Applicable
1 – 6,000 lbs. or less	1 – 10,000 lbs. and less
2 – 6,001 – 10,000 lbs.	
3 – 10,001 – 14,000 lbs.	2 – 10,001 – 26,000 lbs.
4 – 14,001 – 16,000 lbs.	
5 – 16,001 – 19,500 lbs.	
6 – 19,501 – 26,000 lbs.	
7 – 26,001 – 33,000 lbs.	3 – 26,001 lbs. or more
8 – 33,001 lbs. or more	
9 – Unknown	9 – Unknown

**NOTE:**

This element is new to GES in 2011.

In FARS, prior to 2007, only the power unit was considered in recording the element Gross Vehicle Weight Rating (GVWR). Starting in 2007, the element was modified to allow Gross Combination Weight Rating (GCWR) to be recorded for combination vehicles to match the nationally accepted reporting criteria for this element (FMCSA's SAFETYNET and MMUCC).

Use of GCWR instead of GVWR will only impact these vehicles:

1. Light trucks, 10,000 lbs. or less, pulling trailers (truck/trailers) (greater than 10,000 lbs. GCWR)
2. Single-unit trucks, less than 26,000 lbs., pulling trailers (truck/trailers) (greater than 26,000 lbs. GCWR)

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(U490)	UNLIKELY: GVWR/GVCR equals 8 and VEHICLE MODEL YEAR is greater than 1980 and not equal to 9998 or 9999 and VEHICLE IDENTIFICATION NUMBER does not equal 0's, 8's or 9's.	
(V502)	GVWR/GCWR equals 0, and HM1 equals 1,	VEHICLE CONFIGURATION and CARGO BODY TYPE must equal 00.
(V503)	GVWR/GCWR equals 1,	HM2 should equal 2, or VEHICLE CONFIGURATION should equal 20.
(V504)	GVWR/GCWR equals 1,	BODY TYPE should equal 01-22, 28-39, 41-49.
(V505)	GVWR/GCWR equals 9,	BODY TYPE should not equal 61-63, 66, 67.

	<b>IF</b>	<b>THEN</b>
(V506)	BODY TYPE equals 60,	GVWR/GCWR should equal 2.
(V507)	BODY TYPE equals 01-21, 28-30, 32-39, 45-49,	GVWR/GCWR should equal 0, 1.
(V50P)	BODY TYPE equals 61, 62, 67, 71, and VEHICLE CONFIGURATION does not equal 04,	GVWR/GCWR must equal 2, 9. (See GVWR/GCWR Remarks on how to use PCVina to determine GVWR.)
(V51P)	BODY TYPE equals 63, 66, 72,	GVWR/GCWR must equal 3. (See GVWR/GCWR Remarks on how to use PCVina to determine GVWR.)
(V532)	VEHICLE CONFIGURATION equals 01, 02, 04-08, 19, 21,	GVWR/GCWR should not equal 0 or 1.
(V540)	BODY TYPE equals 42, 65, 73, and HM1 equals 1,	GVWR/GCWR should equal 0.
(V62P)	CARGO BODY TYPE equals 01-12, 97-98, and VEHICLE IDENTIFICATION NUMBER does not equal Not Reported or Unknown,	GVWR/GCWR must equal 2, 3.
(V64P)	BODY TYPE equals 50-59, 60-64, 66-72, 78,	GVWR/GCWR must not equal 0, 1.
(V65P)	GVWR/GCWR equals 2, 3,	VEHICLE CONFIGURATION must not equal 00, and CARGO BODY TYPE must not equal 00.
(VA70)	GVWR/GCWR equals 1, and HM2 equals 2,	VEHICLE CONFIGURATION must equal 10.

## **VEHICLE CONFIGURATION**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.V\_Config, Parkwork.PV\_Config

**ELEMENT VALUES:**

- 00 Not Applicable
- 10 Vehicle 10,000 pounds or less placarded for hazardous materials
- 1 Single-Unit Truck (2-axle and GVWR more than 10,000 lbs.)
- 2 Single-Unit Truck (3 or more axles)
- 4 Truck Pulling Trailer(s)
- 5 Truck Tractor (Bobtail)
- 6 Truck Tractor/Semi-Trailer
- 7 Truck Tractor/Double
- 8 Truck Tractor/Triple
- 19 Truck More Than 10,000 lbs., Cannot Classify
- 20 Bus/Large Van (seats for 9-15 occupants, including driver)
- 21 Bus (seats for more than 15 occupants, including driver)
- 99 Unknown

**Definition:** This element identifies the general configuration of this vehicle when applicable.

**Remarks:**

This information should be available on your PAR or Truck and Bus Supplement with other elements required by the Federal Motor Carrier Safety Administration (FMCSA).

In some states, the data element “Vehicle Configuration” or its attributes may appear under another title, such as: Unit Type, Vehicle Type, Type of Unit, etc. In many states, Vehicle Configuration is recorded for all vehicles. However, in our data systems, only code Vehicle Configurations for the following qualifying vehicles:

1. Light trucks pulling a trailer with gross combination weight rating (GCWR) greater than 10,000 lbs.
2. Medium/Heavy Trucks: vehicles with GVWR greater than 10,000 lbs.
3. Buses with 9 or more seats (including the driver).
4. Light Trucks, Vans and Passenger Vehicles displaying a hazardous materials placard.

If Vehicle Configuration is coded “01-99,” Cargo Body Type should be coded “01-99.”

**1 (Not Applicable)** is used for automobiles, motorcycles, passenger vans (with less than 9 seats, including driver) and single-unit light trucks or cargo vans (10,000 lbs. or less GVWR), not carrying hazardous cargo.

A light truck carrying hazardous cargo is coded **10 (Vehicle 10,000 Pounds or Less Placarded for Hazardous Materials)**. When vehicles in this category are not displaying a hazardous materials placard, use **00 (Not Applicable)**.

**2 (Single-Unit Truck [2-axle and GVWR more than 10,000 lbs.])** is a power unit that includes a permanently mounted cargo body (also called a straight truck) that has only two axles and a GVWR of over 10,000 lbs. This also includes a single-unit truck towing other vehicles where the towed vehicle has at least two wheels on the ground. (See Cargo Body Type attribute **12 (Vehicle Towing Another Motor Vehicle)**).

**3 (Single-Unit Truck [3 or more axles])** is a power unit that includes a permanently mounted cargo body (also called a straight truck) that has three or more axles. When counting axles on a single-unit truck, include raised axles. This also includes a single-unit truck towing other vehicles where the towed vehicle has at least two wheels on the ground. (See Cargo Body Type attribute **12 (Vehicle Towing Another Motor Vehicle)**).

**4 (Truck Pulling Trailer [s])** is used for single-unit trucks pulling a trailer.

**5 (Truck Tractor [Bobtail])** is a motor vehicle consisting of a single motorized transport device designed primarily for pulling semi-trailers (e.g., cab only). These vehicles are sometimes referred to as a "bobtail." This also includes truck tractors towing other truck tractors in a saddlemount towing position, or towing other vehicles where the towed vehicle has at least two wheels on the ground. (See Cargo Body Type attribute **12 (Vehicle Towing Another Motor Vehicle)**).

**6 (Truck Tractor/Semi-Trailer)** is used for truck tractors with one trailer. This attribute should not be used for single-unit trucks pulling a trailer.

**FARS SPECIAL INSTRUCTION:**

NOTE: This attribute was used for truck tractors with any number of trailers before 2001.

**7 (Truck Tractor/Double)** is used for tractor pulling two trailers.

**8 (Truck Tractor/Triple)** is used for tractor pulling three trailers.

**19 (Truck More Than 10,000 lbs, Cannot Classify)** is used when you know the vehicle meets the definition of a medium/heavy truck, but you can not select from the above attributes. An example is a vehicle with one trailer, but it is unknown whether it is a tractor-trailer or a single-unit truck pulling a trailer.

**20 (Bus/Large Van [seats for 9-15 people, including driver])** is used for smaller van-based buses (less than 16 seats, including driver). Examples include commuter vans and van-based school buses.

**21 (Bus [seats for more than 15 occupants, including driver]).** A van-based bus qualifies for this attribute if it is configured to include enough seats. A CDL is required for the driver of this bus.

**99 (Unknown)** is used if the investigating officer indicates that the vehicle configuration is unknown or when the body type of the vehicle is unknown. For example, an unidentified hit-and-run vehicle would be coded as **99 (Unknown)**.

#### **Consistency Checks:**

IF	THEN
(4N1P) VEHICLE CONFIGURATION does not equal 00,	MOTOR CARRIER IDENTIFICATION NUMBER must not equal 00-00000000.
(4N2P) MOTOR CARRIER IDENTIFICATION NUMBER equals 00-00000000,	VEHICLE CONFIGURATION must equal 00.
(AB1P) VEHICLE CONFIGURATION equals 01,	CARGO BODY TYPE must NOT equal 22.
(AD0P) VEHICLE CONFIGURATION equals 04, 06-08,	VEHICLE TRAILING must not equal 0.
(AE0P) VEHICLE CONFIGURATION equals 05 and CARGO BODY TYPE does not equal 12,	VEHICLE TRAILING must equal 0.
(AE1P) VEHICLE CONFIGURATION equals 05-08,	BODY TYPE must equal 66.
(AF1P) VEHICLE CONFIGURATION equals 20,	CARGO BODY TYPE must equal 22.
(AF2P) VEHICLE CONFIGURATION equals 20, 21,	BODY TYPE must equal 20, 21, 50-52, 55, 58, 59.
(AH0P) VEHICLE CONFIGURATION does not equal 00, 99,	BODY TYPE should equal 15, 16, 21, 28, 31, 40, 41, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 92, 93, or HM2 must equal 2.
(D280) VEHICLE CONFIGURATION equals 05-08, 21, or HM1 equals 2,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.
(D450) COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,	VEHICLE CONFIGURATION should not equal 05-08, 21, and HM2 should not equal 2.
(V46P) VEHICLE CONFIGURATION equals 21,	BODY TYPE must equal 21, 50-52, 55, 58, 59.

	IF	THEN
(V470)	VEHICLE CONFIGURATION equals 01,	CARGO BODY TYPE should be 01-05, 07, 12, 96-98.
(V47P)	VEHICLE CONFIGURATION equals 21,	CARGO BODY TYPE must equal 22.
(V502)	GVWR/GCWR equals 0, and HM1 equals 1,	VEHICLE CONFIGURATION and CARGO BODY TYPE must equal 00.
(V503)	GVWR/GCWR equals 1,	HM2 should equal 2, or VEHICLE CONFIGURATION should equal 20.
(V50P)	BODY TYPE equals 61, 62, 67, 71, and VEHICLE CONFIGURATION does not equal 04,	GVWR/GCWR must equal 2, 9. (See GVWR/GCWR Remarks on how to use PCVina to determine GVWR.)
(V531)	BUS USE equals 01, 04-07, 98,	VEHICLE CONFIGURATION should equal 20, 21, and CARGO BODY TYPE should equal 22.
(V532)	VEHICLE CONFIGURATION equals 01, 02, 04-08, 19, 21,	GVWR/GCWR should not equal 0 or 1.
(V56P)	VEHICLE CONFIGURATION equals 10,	BODY TYPE must equal 01-22, 28-49.
(V57P)	VEHICLE CONFIGURATION equals 05,	CARGO BODY TYPE must equal 12, 96, and BODY TYPE must equal 66.
(V58P)	VEHICLE CONFIGURATION equals 04,	BODY TYPE must not equal 66.
(V59P)	VEHICLE CONFIGURATION equals 06,	BODY TYPE must equal 66, and VEHICLE TRAILING must equal 1.
(V60P)	VEHICLE CONFIGURATION equals 07,	BODY TYPE must equal 66, and VEHICLE TRAILING must equal 2.
(V61P)	VEHICLE CONFIGURATION equals 08,	BODY TYPE must equal 66, and VEHICLE TRAILING must equal 3.
(V640)	VEHICLE CONFIGURATION does not equal 00, 99,	BODY TYPE should not equal 28, 30, 42, 45, 48, 49.
(V65P)	GVWR/GCWR equals 2, 3,	VEHICLE CONFIGURATION must not equal 00 and CARGO BODY TYPE must not equal 00.
(V790)	BODY TYPE equals 20,	VEHICLE CONFIGURATION should equal 00, and CARGO BODY TYPE should equal 00.
(V800)	BODY TYPE equals 21, 22, 28, 29,	VEHICLE CONFIGURATION should equal 00, 04, 10, 20, 21, 99, and CARGO BODY TYPE should equal 00, 01, 22, 99.
(V810)	BODY TYPE equals 67, and VEHICLE TRAILING equals 1-4,	VEHICLE CONFIGURATION should equal 04, and CARGO BODY TYPE should equal 01, 03, 04, 09.

IF	THEN
(V840) BODY TYPE equals 50-59,	VEHICLE CONFIGURATION should equal 21, and CARGO BODY TYPE should equal 22.
(V850) BODY TYPE equals 60,	VEHICLE CONFIGURATION should equal 01, 03, 04, and CARGO BODY TYPE should equal 01.
(V860) HIT-AND-RUN equals 0, and BODY TYPE equals 61-64,	VEHICLE CONFIGURATION should equal 01, 02, 04, and CARGO BODY TYPE should equal 01-10, 12, 96-98.
(V870) BODY TYPE equals 65,	VEHICLE CONFIGURATION should equal 00, and CARGO BODY TYPE should equal 00.
(V880) HIT-AND-RUN equals 0, and BODY TYPE equals 66,	VEHICLE CONFIGURATION should equal 05-08, 19, and CARGO BODY TYPE should equal 01-04, 06-12, 96-98.
(V890) BODY TYPE equals 71, 72,	VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 01-04, 08, 10, 96-98.
(V900) BODY TYPE equals 73,	VEHICLE CONFIGURATION should equal 00, and CARGO BODY TYPE should equal 00.
(V910) BODY TYPE equals 78,	VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 98.
(V915) BODY TYPE equals 67, and VEHICLE TRAILING equals 0,	VEHICLE CONFIGURATION should equal 01, and CARGO BODY TYPE should equal 97.
(V920) BODY TYPE equals 79,	VEHICLE CONFIGURATION should equal 99, and CARGO BODY TYPE should equal 99.
(V930) VEHICLE CONFIGURATION equals 00, or CARGO BODY TYPE equals 00,	BODY TYPE should not equal 50-64, 66-72, 78, 79.
(V940) HM1 equals 2,	VEHICLE CONFIGURATION should not equal 00, 99 and CARGO BODY TYPE should not equal 00, 99.
(V981) VEHICLE CONFIGURATION equals 00,	MOTOR CARRIER IDENTIFICATION NUMBER should equal 00-0000000000.
(V982) MOTOR CARRIER IDENTIFICATION NUMBER does not equal 00-0000000000,	VEHICLE CONFIGURATION should not equal 00.
(V985) VEHICLE TRAILING equals 5,	VEHICLE CONFIGURATION should not equal 00, 10, 19-21.

	<b>IF</b>	<b>THEN</b>
(V991)	VEHICLE TRAILING equals 0,	VEHICLE CONFIGURATION must not equal 04, 06-08.
(V992)	VEHICLE TRAILING equals 1,	VEHICLE CONFIGURATION must not equal 01, 02, 05, 07 or 08.
(V993)	VEHICLE TRAILING equals 2,	VEHICLE CONFIGURATION must not equal 01, 02, 05, 06 or 08.
(V994)	VEHICLE TRAILING equals 3,	VEHICLE CONFIGURATION must not equal 01, 02, 05-07.
(V995)	VEHICLE TRAILING equals 4,	VEHICLE CONFIGURATION must not equal 01, 02, 05-08.
(V997)	VEHICLE TRAILING equals 6,	VEHICLE CONFIGURATION must not equal 04, 06-08.
(V998)	VEHICLE TRAILING equals 9,	VEHICLE CONFIGURATION must not equal 04-07 or 08.
(VA70)	GVWR/GCWR equals 1, and HM2 equals 2,	VEHICLE CONFIGURATION must equal 10.
(VH75)	UNIT TYPE equals 4,	VEHICLE CONFIGURATION should not equal 05, 20, 21, 10.

## **CARGO BODY TYPE**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.CARGO\_BT, Parkwork.PCARGTYP

**ELEMENT VALUES:**

- 1 Not Applicable (N/A)
- 2 Van/Enclosed Box
- 3 Cargo Tank
- 4 Flatbed
- 5 Dump
- 6 Concrete Mixer
- 7 Auto Transporter
- 8 Garbage/Refuse
- 9 Grain/Chips/Gravel
- 10 Pole-Trailer
- 11 Log
- 12 Intermodal Container Chassis
- 13 Vehicle Towing Another Motor Vehicle
- 22 Bus
- 96 No Cargo Body Type
- 97 Other
- 98 Unknown Cargo Body Type
- 99 Unknown

**Definition:** This element identifies the primary cargo carrying capability of this vehicle when applicable.

**Remarks:**

This information should be available on the PAR or Truck and Bus Supplement with other elements required by the Federal Motor Carrier Safety Administration (FMCSA).

You should expect to find cargo body types for the following qualifying vehicles:

1. Light trucks pulling a trailer with gross combination weight rating (GCWR) greater than 10,000 lbs.
2. Medium/Heavy Trucks: vehicles with GVWR greater than 10,000 lbs.
3. Buses with 9 or more seats (including the driver).
4. Light Trucks, Vans and Passenger Vehicles displaying a hazardous materials placard.

**1 (Not Applicable [N/A])** is used for automobiles, motorcycles, passenger vans (with less than 9 seats, including driver) and single-unit small trucks or vans (10,000 lbs. or less GVWR), not displaying hazardous material placard.

**2 (Van/Enclosed Box)** is used for all enclosed trailers and enclosed cargo vans.

**3 (Flatbed)** is used when the available information refers to a cargo body without sides or roof, with or without readily removable stakes which may be tied together with chains/slats or panels. This includes "stake trucks."

**4 (Dump)** is used when the available information refers to a cargo body designed to be tilted to discharge its load by gravity.

**6 (Auto Transporter)** is used when the available information refers to a cargo body capable of transporting multiple, fully assembled automobiles on an "auto transporter" trailer. Do not use this code for flatbeds transporting vehicles (e.g., flatbed tow truck, or flatbed semi-trailer carrying wrecked/salvaged automobiles).

**7 (Garbage/Refuse)** is used when the available information refers to a cargo body that is specifically designed to collect and transport garbage and refuse. This includes both conventional rear-loading and over-the-top bucket loading garbage trucks. Also included are recycle trucks and roll-off style garbage trucks.

**8 (Grain/Chips/Gravel)** is used when the available information refers to trucks that discharge their loads by gravity from the bottom (i.e., belly dump).

**9 (Pole-Trailer)** is used when the available information refers to a cargo body type that consists of a trailer designed to be attached to a towing vehicle by a reach or pole or by being boomed and secured to the towing vehicle. These are ordinarily used to carry property of a long or irregular shape, such as telephone poles. The pole trailer extends or retracts to accommodate varying lengths of cargo.

**10 (Log)** is used when the available information refers to a cargo body type with a fixed middle beam and side support posts specifically designed for carrying logs. This includes single-unit log trucks.

**09 (Pole-Trailer)** and **10 (Log)** may be listed on a PAR as "Pole/Log". If the trailer can telescope to carry different log lengths, then it should be considered a **09 (Pole-Trailer)**.

**11 (Intermodal Container Chassis)** is used when the available information refers to a cargo body type used for a trailer specifically designed to have a rail or ship container mounted directly on the chassis. These should not be confused with van/enclosed box cargo body types. Intermodal containers may also be mounted on a flatbed trailer, in which case **03 (Flatbed)** is the cargo body type.

**12 (Vehicle Towing Another Motor Vehicle)** is used when the available information refers to vehicles that have no cargo carrying capability but are in the act of towing another motor vehicle where the towed vehicle has at least two wheels on the ground. These are often called “drive-away, tow-aways” and will be applicable to tow trucks and specially rigged truck tractors. This includes “saddlemount” configurations. Does not apply to vehicles “towed” by being loaded on a flatbed or auto transporter.

**22 (Bus)** is a motor vehicle with seating for transporting nine or more persons, including the driver.

**96 (No Cargo Body Type)** is used for any medium heavy truck with no cargo carrying capability (bobtail); a truck chassis with a cab only (stripped chassis); and light trucks and passenger vehicles displaying a hazardous materials placard. Other examples of **96 (No Cargo Body Type)** would be Sign Trucks, Fire Trucks, Tow Trucks, etc.

**97 (Other)** is used when the cargo body type is other than the body types listed above. This includes 2-axle, 6 tire pickups greater than 10,000 lb without a trailer. This does not include a pickup pulling a trailer (truck/trailer). Use the Cargo Body Type of the attached trailer in these situations. This attribute previously included “log trucks” which are now recorded under **10 (Log)**.

**98 (Unknown Cargo Body Type)** is used when the vehicle qualifies for this data element but the cargo body type is not known or when there is not enough information to distinguish one cargo body type from another. An example would be contradictory data on whether the truck is a van/enclosed box or a flatbed.

**99 (Unknown)** is used when the investigating officer indicates it was unknown as to cargo body type or when the body type of the vehicle is unknown. For example, an unidentified hit-and-run vehicle.

**NOTE:** For truck/trailer vehicle configurations where the power unit and trailer have different cargo body types, code the cargo body type of the power unit. For example, a dump truck pulling a flatbed trailer should be coded as **04 (Dump)**.

For truck/trailer vehicle configurations where the power unit’s Cargo Body Type would be coded **96 (No Cargo Body Type)** or **97 (Other)**, code the cargo body of the trailer. For example: a dual-rear-wheel pickup truck pulling a flatbed trailer should be coded as **03 (Flatbed)**.

#### **FARS SPECIAL INSTRUCTION:**

Prior to 2007, **12 (Vehicle Towing Another Motor Vehicle)** was recorded as code “96 – No Cargo Body”.

**Consistency Checks:**

IF	THEN
(AB1P) VEHICLE CONFIGURATION equals 01,	CARGO BODY TYPE must NOT equal 22.
(AE0P) VEHICLE CONFIGURATION equals 05, and CARGO BODY TYPE does not equal 12,	VEHICLE TRAILING must equal 0.
(AF1P) VEHICLE CONFIGURATION equals 20,	CARGO BODY TYPE must equal 22.
(AK00) CARGO BODY TYPE equals 22, 96,	JACKKNIFE should equal 0.
(AL0P) CARGO BODY TYPE equals 22,	BODY TYPE must equal 21, 50-52, 55, 58, 59.
(AM0P) CARGO BODY TYPE does not equal 00, 99,	BODY TYPE should equal 15, 16, 21, 28, 31, 40, 41, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 92, 93, or HM2 must equal 2.
(V470) VEHICLE CONFIGURATION equals 01,	CARGO BODY TYPE should be 01-05, 07, 12, 96-98.
(V47P) VEHICLE CONFIGURATION equals 21,	CARGO BODY TYPE must equal 22.
(V502) GVWR/GCWR equals 0, and HM1 equals 1,	VEHICLE CONFIGURATION and CARGO BODY TYPE must equal 00.
(V531) BUS USE equals 01, 04-07, 98,	VEHICLE CONFIGURATION should equal 20, 21, and CARGO BODY TYPE should equal 22.
(V57P) VEHICLE CONFIGURATION equals 05,	CARGO BODY TYPE must equal 12, 96, and BODY TYPE must equal 66.
(V62P) CARGO BODY TYPE equals 01-12, 97-98, and VEHICLE IDENTIFICATION NUMBER does not equal Not Reported or Unknown,	GVWR/GCWR must equal 2, 3.
(V65P) GVWR/GCWR equals 2, 3,	VEHICLE CONFIGURATION must not equal 00, and CARGO BODY TYPE must not equal 00.
(V660) CARGO BODY TYPE does not equal 00, 99,	BODY TYPE should not equal 28, 30, 42, 45, 48, 49.
(V68P) CARGO BODY TYPE equals 12,	VEHICLE TRAILING must equal 5.
(V790) BODY TYPE equals 20,	VEHICLE CONFIGURATION should equal 00, and CARGO BODY TYPE should equal 00.
(V800) BODY TYPE equals 21, 22, 28, 29,	VEHICLE CONFIGURATION should equal 00, 04, 10, 20, 21, 99, and CARGO BODY TYPE should equal 00, 01, 22, 99.

	IF	THEN
(V810)	BODY TYPE equals 67, and VEHICLE TRAILING equals 1-4,	VEHICLE CONFIGURATION should equal 04, and CARGO BODY TYPE should equal 01, 03, 04, 09.
(V840)	BODY TYPE equals 50-59,	VEHICLE CONFIGURATION should equal 21, and CARGO BODY TYPE should equal 22.
(V850)	BODY TYPE equals 60,	VEHICLE CONFIGURATION should equal 01, 03, 04, and CARGO BODY TYPE should equal 01.
(V860)	HIT-AND-RUN equals 0, and BODY TYPE equals 61-64,	VEHICLE CONFIGURATION should equal 01, 02, 04, and CARGO BODY TYPE should equal 01-10, 12, 96-98.
(V870)	BODY TYPE equals 65,	VEHICLE CONFIGURATION should equal 00, and CARGO BODY TYPE should equal 00.
(V880)	HIT-AND-RUN equals 0, and BODY TYPE equals 66,	VEHICLE CONFIGURATION should equal 05-08, 19, and CARGO BODY TYPE should equal 01-04, 06-12, 96-98.
(V890)	BODY TYPE equals 71, 72,	VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 01-04, 08, 10, 96-98.
(V900)	BODY TYPE equals 73,	VEHICLE CONFIGURATION should equal 00, and CARGO BODY TYPE should equal 00.
(V910)	BODY TYPE equals 78,	VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 98.
(V915)	BODY TYPE equals 67, and VEHICLE TRAILING equals 0,	VEHICLE CONFIGURATION should equal 01, and CARGO BODY TYPE should equal 97.
(V920)	BODY TYPE equals 79,	VEHICLE CONFIGURATION should equal 99, and CARGO BODY TYPE should equal 99.
(V930)	VEHICLE CONFIGURATION equals 00, or CARGO BODY TYPE equals 00,	BODY TYPE should not equal 50-64, 66-72, 78, 79.
(V940)	HM1 equals 2,	VEHICLE CONFIGURATION should not equal 00, 99 and CARGO BODY TYPE should not equal 00, 99.
(VH80)	UNIT TYPE equals 4,	CARGO BODY TYPE should not equal 06, 07, 11, 12, 22.

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## **HAZARDOUS MATERIALS INVOLVEMENT/PLACARD**

**FORMAT:** 1 set, 1 numeric; 1 set, 1 numeric; 1 set, 4 numeric; 1 set, 2 numeric; 1 set, 1 numeric

**SAS NAME:** Vehicle.HAZ\_INV, Vehicle.HAZ\_PLAC, Vehicle.HAZ\_ID, Vehicle.HAZ\_CNO, Vehicle.HAZ\_REL, Parkwork.PHAZ\_INV, Parkwork.PHAZPLAC, Parkwork.PHAZ\_ID, Parkwork.PHAZ\_CNO, Parkwork.PHAZ\_REL

### **ELEMENT VALUES:**

#### HM1: Hazardous Materials Involvement

- 1 No
- 2 Yes

#### HM2: Placard (Did This Motor Vehicle Display a Hazardous Material (HM) Placard?)

- 0 Not Applicable
- 1 No
- 2 Yes
- 8 Not Reported

#### HM3: 4-digit Hazardous Material Identification Number

- 0000 Not Applicable  
Actual 4-digit number except
- 8888 Not Reported

#### HM4: 2-digit Hazardous Material Class Number

- 00 Not Applicable
- 01-09 Actual 1-digit number (with leading zero)
- 88 Not Reported

#### HM5: Release of Hazardous Material from the Cargo Compartment

- 0 Not Applicable
- 1 No
- 2 Yes
- 8 Not Reported

**Definition:** This element identifies the presence of hazardous cargo for this vehicle and records information about the hazardous cargo when present.

### **Remarks:**

This element must be coded for all vehicles.

Placard and Hazardous Materials Released information should be available on your PAR or Truck and Bus Supplement with other elements required by the Federal Motor Carrier Safety Administration (FMCSA) for commercial vehicles.

Hazardous Material is a substance or material which has been designated by the U.S. Department of Transportation, or other authorizing entity, as capable of posing an unreasonable risk to health, safety and property when transported in commerce. Any motor vehicle transporting hazardous materials in quantities above the thresholds established by the U.S. Department of Transportation, or other authorized entity is required to display a hazardous materials placard.

**Exclusions:**

- Fuel or oil carried by the vehicle for its own use.

**Hazardous Materials Placard:** is a sign required to be affixed to any motor vehicle transporting hazardous materials in quantities above the thresholds established by the U.S. Department of Transportation, or other authorized entity. This placard identifies the 1-digit hazard class division number, 4-digit hazardous material identification number or name of the hazardous material being transported.

Vehicle transporting hazardous materials should have a diamond-shaped placard affixed indicating the material carried. (See list of examples below.)

### **HM1– Hazardous Materials Involvement**

**Definition:** This element indicates whether the vehicle was carrying hazardous materials - involvement.

**1 (No)** is used when there is no indication of hazardous materials for this vehicle in the case materials. For cases involving a hit and run, the default is “1 -No” when no details are reported regarding the hit and run vehicle.

If HM1 is **1 (No)**, HM2-HM5 will be coded **Not Applicable**.

**2 (Yes)** is used when hazardous materials were indicated for this vehicle in the case materials.

#### **Examples for code 2 (Yes):**

1. The officer records any information about a placard, whether or not he indicates that the vehicle was carrying hazardous materials.
2. The officer does not record any information about a placard, however, you know that hazardous material was involved.
3. Information identifying hazardous material is blank, but you know that hazardous material was released.

## **HM2 – Hazardous Materials Placard**

**Definition:** This element indicates the presence of hazardous materials and whether the vehicle displayed a hazardous materials placard.

**0 (Not Applicable)** is used when there is no indication of hazardous materials for this vehicle in the case materials (HM1 equals **2 (No)**).

**1 (No)** is used when hazardous materials are involved, but the officer indicates there was no placard.

**2 (Yes)** is used when hazardous materials are involved, and the vehicle does have a placard.

**8 (Not Reported)** is used when hazardous materials are involved, but the crash report does not record any information about the presence of a placard.

## **HM3 – 4-Digit Hazardous Materials Identification Number**

**Definition:** This element indicates the 4-digit identification number.

**0000 (Not Applicable)** – No indication of hazardous materials for this vehicle in the case materials (HM1 equals **1 (No)**).

**Actual 4-digit Number** – Record the 4-digit Hazardous Materials Identification Number reported in the case materials.

**8888 (Not Reported)** – Hazardous materials involved, but the 4-digit number was not recorded or this field is not available on your crash report. If you are provided the name of the hazardous material on your report but not the 4-digit number, use this attribute and be sure to record the 1-digit class number if it is provided.

## **HM4 – 2-Digit Hazardous Materials Class Number**

**Definition:** This element indicates the single-digit hazardous material class number for the vehicle.

**00 (Not Applicable)** – No indication of hazardous materials for this vehicle in the case materials (HM1 equals **1 (No)**).

**Actual 2-digit Class Number (01-09)** – Record the 1-digit Hazardous Materials Class Number recorded on your crash report with a leading zero (e.g., if the 1-digit class number is 5, enter "05"). If you were given a two-digit number with decimal point, record only the first digit with a leading zero (e.g., if the class number is "1.3" you should record "01"). See chart on nine classes of Hazardous Materials on following page.

**88 (Not Reported)** – Hazardous Materials involved, but the 1-digit number was not recorded or this field is not available in the crash materials.

### **HM5 – Release of Hazardous Materials from Cargo Compartment**

**Definition:** This element indicates whether or not any hazardous cargo was released from the cargo tank or compartment.

**0 (Not Applicable)** – No indication of hazardous materials for this vehicle in the case materials (HM1 equals **1 (No)**).

**1 (No)** – Hazardous Materials involved, and the officer indicates there was no release of the material(s) from the cargo compartment.

**2 (Yes)** – Hazardous Materials involved, and the officer indicates there was a release of the material(s) from the cargo compartment.

**8 (Not Reported)** – Hazardous Materials involved, and you can't determine from the crash materials whether or not hazardous material was released from the cargo compartment.

Do not include fuel or oil carried by the vehicle for its own use which has been released.

### **Guideline for recording multiple hazardous materials:**

- If the case has a hazmat spill and you know which material was released always record that material.
- If you were to get two hazardous materials reported of different classes (1-9), report the material from DOT Hazmat Table 1 and its associated 4-digit UN number over materials in Table 2. Table 1 includes Hazard Class or Divisions: 1.1, 1.2, 1.3, 2.3, 4.3, 5.2, 6.1, 7.
- If you have two materials of the same class (e.g. both class 8 - Corrosive) report the material in greatest quantity if you have the information, if not report the material that is listed first on the report.

### **Examples of Hazardous Materials are:**

**Any transport vehicle containing any quantity of the following classes of material must be placarded:**

Explosives (1.1, 1.2, 1.3)

Poison Gas

Materials Dangerous When Wet

Poison

Radioactive

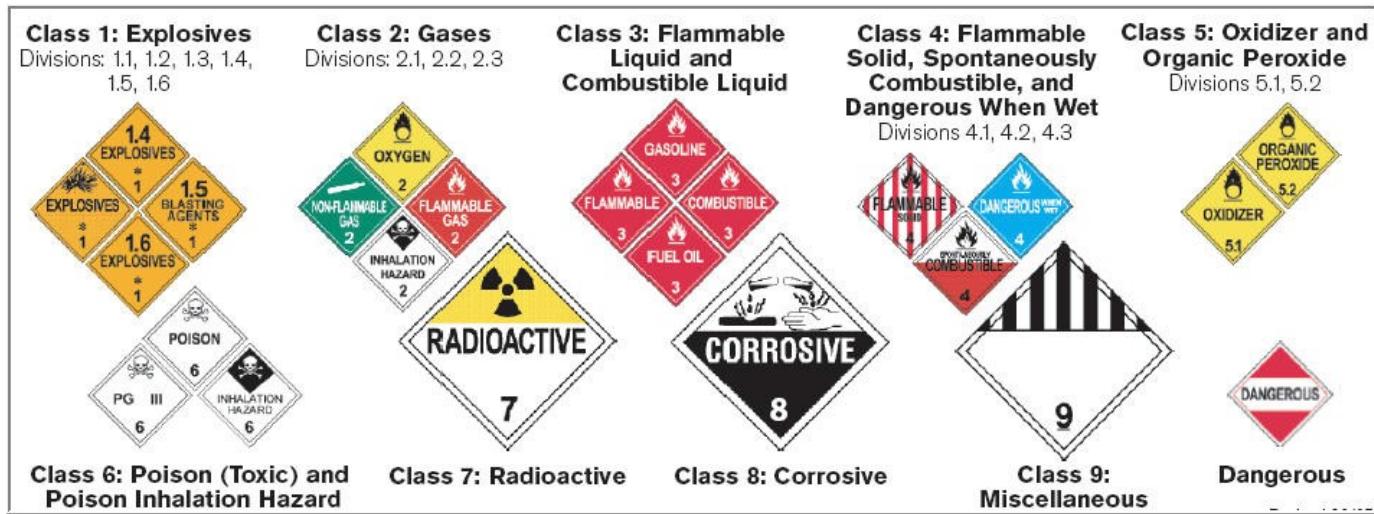
**Any transport vehicle containing over 1,001 lbs. or more (gross weight) of the following classes of materials must be placarded:**

Explosives (1.4, 1.5, 1.6)	Oxidizer/Organic Peroxide
Flammable and Non Flammable Gas	Poison
Flammable/Combustible Liquid (gasoline, fuel oil)	Radioactive
Flammable Solid/Spontaneously Combustible	Corrosive
	Other (A material which presents a hazard during transportation which is not included in any other hazard class)

### **FARS SPECIAL INSTRUCTION:**

Beginning 2007, this element replaced the element "Hazardous Cargo".

## **9 CLASSES OF HAZARDOUS MATERIALS**



### **Consistency Checks:**

#### **IF**

- (4N4P) MOTOR CARRIER IDENTIFICATION NUMBER does not equal 00-000000000,
- (4N5P) BODY TYPE does not equal 21, 28, 31, 40, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 79, 92, 93, 99, or HM2 must equal 2.
- (4N6P) BODY TYPE should equal 28, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 93, or HM1 should equal 2.

#### **THEN**

- BODY TYPE must equal 21, 28, 31, 40, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 79, 92, 93, 99, or HM2 must equal 2.
- MOTOR CARRIER IDENTIFICATION NUMBER must equal 00-000000000, 99-999999999.
- BODY TYPE should equal 28, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 93, or HM1 should equal 2.

	IF	THEN
(4S1P)	BODY TYPE equals 80-83, 88, 89 and HM1 does not equal 1,	COMPLIANCE WITH CDL ENDORSEMENTS MUST equal 0.
(9K0P)	HM2 equals 2,	REGISTRATION STATE must not equal 00.
(AH0P)	VEHICLE CONFIGURATION does not equal 00, 99,	BODY TYPE should equal 15, 16, 21, 28, 31, 40, 41, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 92, 93, or HM2 must equal 2.
(AM0P)	CARGO BODY TYPE does not equal 00, 99,	BODY TYPE should equal 15, 16, 21, 28, 31, 40, 41, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 92, 93, or HM2 must equal 2.
(D270)	BODY TYPE equals 50-52, 55, 63, 66, 72, or HM1 equals 2,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.
(D280)	VEHICLE CONFIGURATION equals 05-08, 21, or HM1 equals 2,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.
(D300)	HM2 equals 2,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00 or 99.
(D310)	HM2 equals 2,	COMPLIANCE WITH CDL ENDORSEMENTS should equal 1-3.
(D440)	COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,	BODY TYPE should not equal 50-52, 55, 63, 66, 72, and HM2 should not equal 2.
(D450)	COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,	VEHICLE CONFIGURATION should not equal 05-08, 21, and HM2 should not equal 2.
(D580)	VIOLATIONS CHARGED equals 85,	HM1 should equal 2.
(V070)	HM1 equals 2,	REGISTRATION STATE should not equal 92.
(V090)	HM1 equals 2,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should equal 06, 99.
(V502)	GVWR/GCWR equals 0, and HM1 equals 1,	VEHICLE CONFIGURATION and CARGO BODY TYPE must equal 00.
(V503)	GVWR/GCWR equals 1,	HM2 should equal 2, or VEHICLE CONFIGURATION should equal 20.
(V540)	BODY TYPE equals 42, 65, 73, and HM1 equals 1,	GVWR/GCWR should equal 0.
(V570)	HM1 equals 2,	REGISTERED VEHICLE OWNER should not equal 0, 1, 2, 4.
(V580)	HM1 equals 2,	REGISTERED VEHICLE OWNER should equal 3.

	IF	THEN
(V940)	HM1 equals 2,	VEHICLE CONFIGURATION should not equal 00, 99 and CARGO BODY TYPE should not equal 00, 99.
(V980)	BODY TYPE equals 50-52, 55, 58-64, 66, 67, 71, 72, 78, 93, or HM1 equals 2,	MOTOR CARRIER IDENTIFICATION NUMBER must not equal 00-000000000.
(VA00)	HM1 equals 1,	HM2, HM5 must equal 0, HM4 must equal 00 and HM3 must equal 0000.
(VA10)	HM1 equals 2,	HM2, HM5 must not equal 0, HM4 must not equal 00 and HM3 must not equal 0000.
(VA20)	any of HM2, HM5 equals 0, or HM4 equals 00 or HM3 equals 0000,	HM1 must equal 1.
(VA30)	any of HM2, HM5 does not equal 0, or HM4 does not equal 00, or HM3 does not equal 0000,	HM1 must equal 2.
(VA40)	HM5 equals 2,	HM3 should not equal 8888, or HM4 should not equal 88.
(VA50)	HM3 equals 8888, and HM4 equals 88,	HM5 should not equal 2.
(VA60)	HM3 does not equal 0000, 8888, or HM4 does not equal 00, 88,	HM2 should equal 2.
(VA70)	GVWR/GCWR equals 1, and HM2 equals 2,	VEHICLE CONFIGURATION must equal 10.

#### **Consistency Checks (FARS Only):**

	IF	THEN
(V100)	HM1 equals 2, and RELATED FACTORS-DRIVER LEVEL does not equal 19,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 01, 02, 05.

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## **BUS USE**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.Bus\_Use, Parkwork.PBus\_Use

**ELEMENT VALUES:**

- |    |                                   |
|----|-----------------------------------|
| 1  | Not a Bus                         |
| 2  | School                            |
| 4  | Intercity                         |
| 5  | Charter/Tour                      |
| 6  | Transit/ Commuter                 |
| 7  | Shuttle                           |
| 8  | Modified for Personal/Private Use |
| 98 | Not Reported                      |
| 99 | Unknown                           |

**Definition:** This data element describes the common type of bus service this vehicle was being used for at the time of the crash or the primary use for the bus if not in service at the time of the crash.

**Remarks:**

Buses are any motor vehicle with seats to transport nine (9) or more people, including the driver's seat. This element does not include vans that are owned and operated for personal use.

**1 (Not a Bus)** This should be used for vehicles with less than nine (9) seats (including the driver) and personal-use vans with nine (9) or more seats (including the driver) and also for vehicles that do not have a bus body type AND are not being used as a bus in the crash.

**2 (School)** is used for vehicles that meet the definition of a bus and are being used by a public or private school or district or contracted carrier operation on behalf of the entity, providing transport for school children (up to the 12th grade) to/from school (public or private) or any other school function or activity.

In most cases, the decision to use this code will be based on a reference to the vehicle as a school bus in the case materials. In this situation, assume the criteria are met unless it is otherwise stated in the case materials.

In addition, School includes buses that are not externally identifiable as a school/pupil transport vehicle. (For example, a transit bus, at the time of the crash, used exclusively [no other passengers except students] to transport students to/from the school or school-related activity.)

In most cases, the decision to use this code will be based on a reference to the vehicle as a school bus in the case materials. In this situation, assume the criteria are met unless it is otherwise stated in the case materials.

**4 (Intercity)** is used when a company provides for-hire, long-distance passenger transportation between cities over fixed routes with regular schedules (for example; Greyhound bus service between major cities).

**5 (Charter/Tour)** is used when a company provides transportation on a for-hire basis and demand-response basis, usually round-trip service for a tour group or outing.

**6 (Transit/Commuter)** is used for a government entity or private company which provides passenger transportation over fixed, scheduled routes, within primarily urban geographical areas. (For example; inner-city mass transit bus/van service.)

**7 (Shuttle)** is used when private companies provide transportation services for their own employees, non-governmental organizations (such as churches and non-profit groups), and non-educational units of government (such as departments of corrections). (Examples include buses/nine-passenger vans transporting people from airports, hotels, rental car companies, and business facility to facility.)

**8 (Modified for Personal/Private Use)** is used when a bus body type has been modified for personal or private use. For example, a bus with seats removed and exterior altered to allow for personal/ private hauling of cargo (instead of passengers). Also includes musical groups in cross-country bus with interior remodeled with home-like conveniences.

### **98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown)** is used if the information about this vehicle is reported as Unknown (e.g., an unidentified hit-and-run vehicle).

Note: if the investigating officer indicates a bus was involved but not how it was being used, use **98 (Not Reported)**.

**Consistency Checks:**

IF	THEN
(AH1P) BUS USE equals 08,	BODY TYPE must equal 21, 22, 28, 29, 50-59.
(AH2P) BUS USE equals 06,	BODY TYPE should equal 21 or 52 or 55.
(V051) BUS USE equals 01,	BODY TYPE should equal 21 or 50 or 55.
(V052) BUS USE equals 04,	BODY TYPE should equal 51.
(V053) BUS USE equals 05,	BODY TYPE should equal 12, 16, 21, 51, 55 or 58.
(V054) BUS USE equals 07,	BODY TYPE should equal 21, 22, 29, 50-59.
(V055) BUS USE equals 00,	BODY TYPE must not equal 50-59.
(V056) SPECIAL USE equals 02,	BUS USE should equal 01.
(V057) SPECIAL USE equals 03,	BUS USE should equal 04-07, 99.
<b>(V059) <i>BUS USE equals 01,</i></b>	<b><i>SPECIAL USE must equal 02.</i></b>
<b>(V061) <i>BUS USE equals 04-07,</i></b>	<b><i>SPECIAL USE must equal 03.</i></b>
(V330) SCHOOL BUS RELATED equals 1,	BODY TYPE of at least one of the involved vehicles should equal 50 (School Bus), or SPECIAL USE for at least one involved vehicle should equal 02 - Vehicle Used as School Bus, and BUS USE for at least one vehicle should equal 01.
(V531) BUS USE equals 01, 04-07, 98,	VEHICLE CONFIGURATION should equal 20, 21, and CARGO BODY TYPE should equal 22.

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## **SPECIAL USE**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.Spec\_Use, Person.Spec\_Use, Parkwork.PSP\_USE

**ELEMENT VALUES:**

- 1 No Special Use
- 2 Taxi
- 3 Vehicle Used for School Transport
- 4 Vehicle Used as Other Bus
- 5 Military
- 6 Police
- 7 Ambulance
- 8 Fire Truck
- 9 Non-Transport Emergency Services Vehicle
- 13 Incident Response
- 98 Not Reported
- 99 Unknown

**Definition:** This data element refers to a motor vehicle that is being used for a function other than the primary function for that type vehicle.

**Remarks:**

This data element identifies any special use associated with this motor vehicle at the time of the crash. The special function served by this motor vehicle should be coded regardless of whether the function is marked on the vehicle.

**1 (No Special Use)** is used when the available information does not indicate or imply that this vehicle was applicable to any of the special uses listed above.

**2 (Taxi)** is used when this vehicle was being used during this trip (at the time of the crash) on a “fee-for-hire” basis to transport persons. Most of these vehicles will be marked and formally registered as taxis; however, vehicles which are used as taxis, even though they are not registered (e.g., Gypsy Cabs), are included here. Passengers do not have to be present at the time of the crash. Taxis and drivers which are off-duty at the time of the crash are coded as **00 (No Special Use)**. If it is unknown whether or not the taxi is on-duty, code as **01 (Taxi)**. This attribute also applies for limousines on a “fee-for-hire” basis.

**3 (Vehicle Used for School Transport)** is used for any motor vehicle that satisfies all the following criteria:

- operated, leased, owned or contracted by a public or private school-type institution;
- where the institution's students may range from pre-school through high school;
- whose occupants, if any, are associated with the institution; and,
- at the time of the crash the vehicle is being used for transportation to and from a school or on a school-sponsored activity or trip

Note:

This attribute also includes vehicles which are not externally identifiable as a school/pupil transport vehicle, but do meet all of the other criteria above. (For example, a transit bus, at the time of the crash, used exclusively [no other passengers except students] to transport students to/from the school or school-related activity).

In most cases, the decision to use this attribute will be based on a reference to the vehicle as a school bus in the available information. In this situation, assume the criteria are met unless it is otherwise stated in the available information.

**4 (Vehicle Used as Other Bus)** is used when a motor vehicle is designed for transporting nine or more persons including the driver and does not satisfy the above "school bus" criteria. For example, BODY TYPE code "School Bus" transporting senior citizens to an activity.

**5 (Military)** is used for any vehicle which is owned by any of the Armed Forces regardless of body type. This attribute includes:

- military police vehicles;
- military ambulances;
- military hearses; and
- military fire vehicles.

**6 (Police)** is a vehicle equipped with police emergency devices (lights and siren) that is owned or subsidized by any local, county, State or Federal government entity. The police vehicle is presumed to be in special use at all times, although not necessarily in "emergency use." Vehicles not owned by a government entity that are used by law enforcement officers (e.g., undercover) are excluded.

**7 (Ambulance)** is used for any readily identifiable (lights or markings) vehicles designed to transport sick or injured persons. The ambulance is presumed to be in special use at all times, although not necessarily in "emergency use."

**8 (Fire Truck)** is used for any readily identifiable (lights or markings) vehicles specially designed and equipped to respond to fire, hazmat, medical and extrication incidents. This attribute includes medium and heavy vehicles such as engines, pumper, ladder, platform aerial apparatus, heavy rescue vehicles, water tenders or tankers, brush or wilderness firefighting vehicles, etc.

**9 (Non-Transport Emergency Services Vehicle)** is used for any readily identified (lights and markings) vehicles that do not meet the criteria for **06 (Ambulance)**, **07 (Fire Truck)** or **13 (Incident Response)** and are specifically designed and equipped to respond to fire, hazmat, medical and extrication incidents. This attribute includes light vehicles such as sedans, van, SUVs, pickups, trucks, motorcycles, etc. This attribute includes vehicles that have been dispatched to an incident or have initiated operation in a non-emergency mode and are not transporting passengers, such as patients or suspects. An example of a Non-Transport Emergency Services vehicle is a fire chief's unit, commonly an SUV.

**13 (Incident Response)** is used for Government vehicles typically equipped with a variety of tools, emergency medical equipment, traffic cones and control signs, absorbent material (for responding to spills), emergency and work lighting. These multi-purpose response units are intended to assist law enforcement, fire and rescue personnel with trafficway incident management.

### **98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown)** is used if the investigating officer reported special use as unknown.

### **Consistency Checks:**

<b>IF</b>	<b>THEN</b>
(1D0P) SPECIAL USE equals 01,	BODY TYPE must equal 02-09, 12, 14-21, 28, 29, 49, 99.
(1D0Q) SPECIAL USE equals 00-03,	EMERGENCY MOTOR VEHICLE USE must equal 0.
(2D0P) SPECIAL USE equals 02,	BODY TYPE should equal 15, 16, 19-21, 28, 29, 45, 48, 50-52, 55, 58, <b>59</b> .
(3A0P) SPECIAL USE equals 07,	BODY TYPE must equal 60-64, 66, 67, 71, 72, 78, 79, 99.
(3D0P) SPECIAL USE for any vehicle equals 02,	SCHOOL BUS RELATED must equal 1.

	IF	THEN
(4A0P)	BODY TYPE equals 80-83, 88, 89,	SPECIAL USE must not equal 01-03, 06, 07.
(4D0P)	SPECIAL USE equals 03,	BODY TYPE must equal 21, 28, 29, 50-52, 55, 58, 59.
(5D0P)	SPECIAL USE equals 04,	BODY TYPE must equal 01-12, 15-17 19-22, 28-33, 39-41, 45, 48-50, 55, 58, 59, 60-64, 66, 67, 71, 72, 78, 79, 90, 99.
(5M0G)	SPECIAL USE equals 06, and PERSON TYPE equals 02 or 09,	RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL should equal 86 or 92.
(6D0P)	SPECIAL USE equals 05,	BODY TYPE must equal 01-12, 14-17 19-22, 28-33, 39-41, 45, 48, 49, 55, 58-64, 66, 67, 71, 72, 78-82, 88-91, 94, <b>95</b> , 97-99.
(7D0P)	SPECIAL USE equals 06,	BODY TYPE must equal 11, 14-17, 19, 21, 22, 28, 29, 40, 41, 45, 48, 49, 61, 62, 64, 79, 98, 99.
(8D0P)	SPECIAL USE equals 08,	BODY TYPE must not equal 60-64, 66, 67, 71, 72, 78, 79, 99.
(AR0P)	SPECIAL USE equals 04,	REGISTERED VEHICLE OWNER must not equal 0, 1, 2, 4.
(U050)	UNLIKELY: SPECIAL USE equals 04, 08.	UNLIKELY: SPECIAL USE equals 02 or 03.
(U080)	BODY TYPE does not equal 50-59,	
(U420)	UNLIKELY: SPECIAL USE equals 98.	
(V056)	SPECIAL USE equals 02,	BUS USE should equal 01.
(V057)	SPECIAL USE equals 03,	BUS USE should equal 04-07, 99.
(V058)	EMERGENCY MOTOR VEHICLE USE equals 2-6,	SPECIAL USE should equal 04-08, 13.
(V059)	<b>BUS USE equals 01</b> ,	<b>SPECIAL USE must equal 02</b> .
(V060)	SPECIAL USE equals 04,	REGISTRATION STATE should equal 94.
(V061)	<b>BUS USE equals 04-07</b> ,	<b>SPECIAL USE must equal 03</b> .
(V330)	SCHOOL BUS RELATED equals 1,	BODY TYPE of at least one of the involved vehicles should equal 50 (School Bus), or SPECIAL USE for at least one involved vehicle should equal 02 - Vehicle Used as School Bus, and BUS USE for at least one vehicle should equal 01.
(V560)	SPECIAL USE equals 04,	REGISTERED VEHICLE OWNER should equal 3, and REGISTRATION STATE should equal 94.

## **EMERGENCY MOTOR VEHICLE USE**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.EMER\_USE, Person.EMER\_USE, Parkwork.PEM\_USE

**ELEMENT VALUES:**

- 0 Not Applicable
- 2 Non-Emergency, Non-Transport
- 3 Non-Emergency Transport
- 4 Emergency Operation, Emergency Warning Equipment Not in Use
- 5 Emergency Operation, Emergency Warning Equipment in Use
- 6 Emergency Operation, Emergency Warning Equipment in Use  
Unknown**
- 8 Not Reported
- 9 Unknown

**Definition:** Emergency Motor Vehicle Use indicates operation of any motor vehicle that is legally authorized by a government authority to respond to emergencies with or without the use of emergency warning equipment, such as a police vehicle, fire truck or ambulance while actually engaged in such response.

**Remarks:**

Emergency Use also refers to an official motor vehicle that is usually traveling with emergency signals in use; typically red light blinking, siren sounding, etc.

If Special Use is **04 (Military), 05 (Police), 06 (Ambulance), 07 (Fire Truck), 08 (Non-Transport, Emergency Services Vehicle)** or **13 (Incident Response)** then refer to the case materials to determine if the vehicle was on an emergency response (i.e., red lights flashing, siren sounding, on route to hospital, etc.) at the time of the crash.

**0 (Not Applicable)** is used when Special Use for this vehicle is coded **00 (No Special Use), 01 (Taxi), 02 (Vehicle Used as School Transport) or 03 (Vehicle Used as Other Bus)**.

**2 (Non-Emergency, Non-Transport)** is used when the authorized emergency vehicle has been dispatched to an incident or has initiated operation in a non-emergency mode and is not transporting passengers, such as patients or suspects. The emergency vehicle operator is not using emergency lighting, audible siren or emergency vehicle maneuvers.

**3 (Non-Emergency Transport)** is used when the authorized emergency vehicle has been dispatched to an incident or has initiated a transport-related operation in a non-emergency mode. The emergency vehicle operator is not using emergency lighting, audible siren or

emergency vehicle maneuvers. Example: transport of a suspect from one location to another or interfacility transport of a patient in an ambulance to a nursing home.

**4 (Emergency Operation, Emergency Warning Equipment Not in Use)** is used when the authorized emergency vehicle has been dispatched to an incident or has initiated an emergency operation and has no emergency lighting or audible siren in use. The emergency vehicle operator may be using emergency vehicle maneuvers as allowed under state law. Examples: a police car in the last mile approaching a bank robbery; transport of a patient in an ambulance for which lights and sirens are not used per protocol.

**5 (Emergency Operation, Emergency Warning Equipment in Use)** is used when the authorized emergency vehicle has been dispatched to an incident or has initiated an emergency operation and is using an audible siren and/or has illuminated its emergency lighting devices. The emergency vehicle operator is using or is prepared to use emergency vehicle maneuvers as allowed by state law.

**6 (Emergency Operation, Emergency Warning Equipment in Use Unknown)** is used when the authorized emergency vehicle has been dispatched to an incident or has initiated an emergency operation and it cannot be determined if it is using an audible siren and/or has illuminated its emergency lighting devices.

#### **8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

#### Examples:

- The case materials are not clear as to whether the vehicle was on an emergency response.
- The case materials are not clear as to whether the vehicle is legally authorized by a government authority to respond to emergencies.

**9 (Unknown)** is used if the investigating officer reported emergency use as unknown.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(1D0Q)	SPECIAL USE equals 00-03,	EMERGENCY MOTOR VEHICLE USE must equal 0.
(PB44)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 240,	EMERGENCY MOTOR VEHICLE USE should equal 2- <b>6</b> for at least one vehicle.
(V058)	EMERGENCY MOTOR VEHICLE USE equals 2- <b>6</b> ,	SPECIAL USE should equal 04-08, 13.

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## **TRAVEL SPEED**

**FORMAT:** 3 numeric

**SAS NAME:** Vehicle.TRAV\_SP

**ELEMENT VALUES:**

000	Stopped Motor Vehicle In-Transport
001-151	Reported Speed Up to 151 MPH
997	Greater than 151 MPH
998	Not Reported
999	Unknown

**Definition:** This element records the speed the vehicle was traveling prior to the occurrence of the crash as reported by the investigating officer.

**Remarks:**

Code the Travel Speed as indicated by the investigating officer. Do not enter the Speed Limit. Do not use estimates by drivers or witnesses reported in the case materials. If the police calculated a speed, please be aware that this may represent impact speed and not travel speed.

Code the nearest mph for this vehicle as reported on the case materials.

<b>Examples:</b>	Reported Speed	Code
	40.2mph	40
	40.5mph	41

If the officer gives a range, code the median speed and, if necessary, round up to the next higher whole number. If the officer gives a minimum speed (e.g., "at least 55 mph" or "in excess of 60 mph", then use that speed (e.g., code as "55" and "60" respectively).

<b>Examples:</b>	Reported Speed	Code
	40-50mph	45
	45-50mph	48

**000 (Stopped Motor Vehicle In-Transport)** is used when this vehicle is stopped on the roadway.

**998 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **998 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

Examples:

1. the officer did not mention Travel Speed, or
2. did not indicate Travel Speed within a field in the case materials.

**999 (Unknown)** is used when the officer indicates that Travel Speed is unknown.

Consistency Checks:

	<b>IF</b>	<b>THEN</b>
(3B0P)	JACKKNIFE equals 2, 3,	TRAVEL SPEED must not equal 000.
(3B1P)	CRASH TYPE equals 21-23,	TRAVEL SPEED must equal 000 for this vehicle.
(A090)	NUMBER OF VEHICLE FORMS SUBMITTED is greater than 001,	there should be at least one vehicle with TRAVEL SPEED of 001-151, 997-999, or blanks.
(A100)	FIRST HARMFUL EVENT is not equal to 02, 04, 05, 10, 16, 18,	there should be one vehicle with TRAVEL SPEED of 001-151, 997-999, or blanks.
(A240)	ROADWAY FUNCTION CLASS equals 01, 11, and RELATION TO JUNCTION (a) equals 0,	TRAVEL SPEED should not equal 005-040 for any vehicle.
(AZA0)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 05 or 07,	TRAVEL SPEED should equal 000 for this vehicle.
(VH70)	UNIT TYPE equals 2-4,	elements V15, V24, V31 must all be left blank.
<b>(U060)</b>	<b>UNLIKELY: TRAVEL SPEED should equal 98 or 99.</b>	

## **UNDERRIDE/OVERRIDE** **(FARS Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.UNDERIDE, Parkwork.PUNDERIDE

**ELEMENT VALUES:**

- 0 No Underride or Override Noted
- 1 Underriding a Motor Vehicle In-Transport, Underride, Compartment Intrusion
- 2 Underriding a Motor Vehicle In-Transport, Underride, No Compartment Intrusion
- 3 Underriding a Motor Vehicle In-Transport, Underride, Compartment Intrusion  
Unknown
- 4 Underriding a Motor Vehicle Not In-Transport, Underride, Compartment Intrusion
- 5 Underriding a Motor Vehicle Not In-Transport, Underride, No Compartment  
Intrusion
- 6 Underriding a Motor Vehicle Not In-Transport, Underride, Compartment Intrusion  
Unknown
- 7 Overriding a Motor Vehicle In-Transport
- 8 Overriding a Motor Vehicle Not In-Transport
- 9 Unknown if Underride or Override

**Definition:** This element indicates whether an underride or override occurred during the crash involving this vehicle.

**Remarks:**

**Rationale:** Needed to identify the magnitude of crashes in which an underride or override occurs to support NHTSA rulemaking activities and motor vehicle bumper compatibility research.

**NOTE:** Prior to 2007, this element was limited to collisions involving a large vehicle (medium/heavy trucks) and a smaller body type (e.g., automobiles, utility vehicles, etc.). Beginning 2007, this element is open to all body types, excluding motorcycles, mopeds, ATVs and snowmobiles.

**NOTE:** Prior to 1994, coding of vehicle underrides and overrides was not captured as a separate element. It was included under Impact Points (clock point codes “15” and “16” [Underride and Override]). This change improved both the capture and detail relating to these events.

For underrides and overrides, it is important to determine the vehicle performing the action. Two vehicles cannot be considered to underride and override simultaneously.

In cases in which two vehicles collide “head-on” and one vehicle ends up under the other, you must determine whether an **Underride** or **Override** has occurred.

An **Underride** refers to a vehicle sliding under another vehicle during a crash. The classic example is an automobile striking the rear end or the side of a tractor-trailer and coming to a stop under the trailer. In this example, the automobile is the underriding vehicle. We distinguish between those underriding vehicles with compartment intrusion versus those with no compartment intrusion.

Compartment intrusion indicates a breach of the passenger compartment of this underriding (striking) vehicle. For example, damage to the windshield or glass area.

No compartment intrusion means that the underridden vehicle (struck vehicle) did not directly enter the passenger compartment of this vehicle (for example, damage to the hood or front bumper).

It is possible for an auto to completely underride the trailer without stopping. **Underride is not applicable to motorcycles or snowmobiles.**

An **Override** refers to a vehicle riding up over another (including a parked vehicle). A vehicle straddling a guardrail, for example, is not coded as an override.

**0 (No Underride or Override Noted)** is used when there is no indication in the case materials that this vehicle was involved in an underride or override as defined above.

## **UNDERRIDES AND VEHICLES UNDER OTHER VEHICLES**

Codes “1-3” are used when this vehicle underrides a motor vehicle in-transport (includes those in motion outside the trafficway).

Codes “4-6” are used when this vehicle underrides a motor vehicle that is Not In-Transport. This includes parked/stopped off roadway motor vehicles, working motor vehicles (e.g., cherry picker, paint-stripping truck).

### **Compartment Intrusion Guidelines:**

To use Codes “1 or 4,” the PAR should indicate that the passenger compartment of the underriding (striking) vehicle has been damaged. Sources of this information can be the PAR narrative and/or the vehicle damage scale. If the top of the vehicle is damaged, as noted by the vehicle damage scale, Codes “1 or 4” would apply.

Codes “2 and 5,” **Underride, No Compartment Intrusion**, are used when a portion of the vehicle is under another, and it is known that there is no passenger compartment intrusion. Codes “3 and 6” are used when it is unknown if there is passenger compartment intrusion.

## OVERRIDES

**7 (Overriding a Motor Vehicle In-Transport)** is used when this vehicle overrides a motor vehicle in-transport (includes those in motion outside the trafficway).

**8 (Overriding a Motor Vehicle Not In-Transport)** is used when this vehicle overrides a motor vehicle not in-transport. This includes parked/stopped off roadway motor vehicles, working motor vehicles (e.g. cherry picker, paint-striping truck).

**9 (Unknown if Underride or Override)** is used when an Underride or Override occurred but it cannot be determined which is appropriate.

### Consistency Checks:

	IF	THEN
(431P)	<b>NUMBER OF VEHICLE FORMS SUBMITTED equals 2 and UNDERRIDE/OVERRIDE equals 1-8, 9 for one vehicle,</b>	<b>UNDERRIDE/OVERRIDE for the other vehicle must equal 0.</b>
(432P)	<b>NUMBER OF VEHICLE FORMS SUBMITTED equals 1,</b>	<b>UNDERRIDE/OVERRIDE must equal 0.</b>
(6A1P)	UNDERRIDE/OVERRIDE equals 1-8,	BODY TYPE must not equal 80-83, 88-91.
(9B3P)	UNDERRIDE/OVERRIDE equals 7,	there must be at least one vehicle with UNIT TYPE equal to 1.
(9B4P)	UNDERRIDE/OVVERIDE equals 8,	there must at least one vehicle with UNIT TYPE equal 2-4.
(9B5P)	UNIT TYPE equals 2, 3,	UNDERRIDE/OVERRIDE must equal 0.
(V750)	UNDERRIDE/OVERRIDE equals 1-3,	FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 12, 55.
(V760)	UNDERRIDE/OVERRIDE equals 4-6,	FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 14, 45.
(V770)	UNDERRIDE/OVERRIDE equals 7,	at least one SEQUENCE OF EVENTS (for this vehicle) must equal 12, 55.
(V780)	UNDERRIDE/OVERRIDE equals 8,	at least one SEQUENCE OF EVENTS (for this vehicle) must equal 14, 45.

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## **ROLLOVER**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.Rollover; Person.ROLLOVER

**ELEMENT VALUES:**

- 0    No Rollover
- 1    Rollover, Tripped by Object/Vehicle
- 2    Rollover, Untripped
- 9    Rollover, Unknown Type

**Definition:** This element identifies whether a rollover or overturn occurred during the crash involving this vehicle.

**Remarks:**

Rollover is defined as any vehicle rotation of 90 degrees or more about any true longitudinal or lateral axis. Rollover can also be referred to as overturn, and can occur at any time during this vehicle's critical crash envelope.

Rollover does not apply to 2-wheeled motorcycles for this element (use **0 (No Rollover)**). However, in the First Harmful Event, Most Harmful Event and Sequence of Events you may use **01 (Rollover/ Overturn)** to record that this vehicle (motorcycle) overturned.

A rollover can be used for 3- or 4-wheeled ATVs, snowmobiles, go-karts and 3-wheeled motorcycles.

**10 (No Rollover)** is used when there is no indication that a rollover occurred.

**1 (Rollover, Tripped by Object/Vehicle)** is used when the vehicle's lateral motion is suddenly slowed or stopped by an opposing force, inducing a rollover. The opposing force may be produced by a curb, ditch, pot-hole, another vehicle, pavement or soil dug into by the vehicle's wheels. This includes instances where a vehicle impacts a fixed object (i.e., tree, barrier, pole or post) then rolls over.

**2 (Rollover, Untripped)** is used when a rollover occurs, but not as a result of a collision with an object or a vehicle or generated by any other opposing force as referred to in Rollover, Tripped by Object/Vehicle. An untripped rollover is one for which there is no obvious cause other than normal surface friction. This is usually the result of vehicle instability and there is no evidence of furrowing or gouging on the pavement, gravel, grass or dirt surface.

**9 (Rollover, Unknown Type)** is used when a rollover occurred, but there is not sufficient information to determine tripped versus untripped status.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(1Z2P)	any SEQUENCE OF EVENTS equals 01, and (BODY TYPE equals 01-79, 82, 90-99, or any RELATED FACTORS-VEHICLE LEVEL equals 30),	ROLLOVER must equal 1, 2, 9.
(5A0P)	BODY TYPE equals 80, 81, 83, 88, 89, and any RELATED FACTORS-VEHICLE LEVEL does not equal 30,	ROLLOVER must equal 0.
(V700)	ROLLOVER equals 2,	CRASH TYPE should equal 01-10, 14, 98 or 99 for this vehicle.
(V74P)	UNIT TYPE equals 1, and ROLLOVER equals 1, 2, 9, or LOCATION OF ROLLOVER equals 1-7, 9,	at least one SEQUENCE OF EVENTS must equal 01 for this vehicle.
(V75P)	ROLLOVER is not blank,	LOCATION OF ROLLOVER must not be blank.
(V76P)	ROLLOVER is blank,	LOCATION OF ROLLOVER must be blank.
(V77P)	ROLLOVER equals 1, 2, 9,	LOCATION OF ROLLOVER must equal 1-7, 9.
(V78P)	ROLLOVER equals 0,	LOCATION OF ROLLOVER must equal 0.
(V79P)	ROLLOVER equals 2, and FIRST HARMFUL EVENT equals 01,	CRASH TYPE must equal 01-10, 14, 15 or 98 for the vehicle involved in the first harmful event.

## LOCATION OF ROLLOVER

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.ROLINLOC

**ELEMENT VALUES:**

- 0 No Rollover
- 1 On Roadway
- 2 On Shoulder
- 3 On Median/Separator
- 4 In Gore
- 5 On Roadside
- 6 Outside of Trafficway
- 7 In Parking Lane / Zone
- 9 Unknown

**Definition:** This element identifies the location of the trip point or start of the vehicle's roll.

**Remarks:**

**1 (On Roadway)** is used when the available information indicates the vehicle tripped or began its roll on the roadway. A Roadway is that part of a trafficway designed, improved and ordinarily used for motor vehicle travel. Where various classes of motor vehicles are segregated, that part of a trafficway used by a particular class is the roadway (i.e., travel lanes). Separate roadways may be provided for northbound and southbound traffic or for trucks and automobiles. This includes continuous left-turn lanes.

**2 (On Shoulder)** is used when the available information indicates the vehicle tripped or began its roll on the shoulder. A Shoulder is that part of a trafficway contiguous with the roadway for emergency use, for accommodation of stopped road vehicles and for lateral support of the roadway structure.

**3 (On Median/Separator)** is used when the available information indicates the vehicle tripped or began its roll on the median/separator. A Median is an area of a trafficway between parallel roads separating travel in opposite directions. Continuous left-turn lanes are not considered painted medians. A Separator is the area of a trafficway between parallel roads separating travel in the same direction or separating a frontage road.

**4 (In Gore)** is used when the available information indicates the vehicle tripped or began its roll in the gore. The Gore is an area of land where two roadways diverge or converge. The area is bounded on two sides by the edges of the roadways, which join at the point of divergence or convergence. The direction of traffic must be the same on both of these roadways. The area includes shoulders or marked pavement, if any, between the roadways.

**5 (On Roadside)** is used when the available information indicates the vehicle tripped or began its roll on the roadside. Roadside is the outermost part of the trafficway from the property line or other boundary into the edge of the first road.

**6 (Outside of Trafficway)** is used when the available information indicates the vehicle tripped or began its roll outside the right-of-way.

**7 (In Parking Lane/Zone)** refers to an area on the roadway, or next to the roadway, on which parking is permitted in marked or unmarked spaces. This includes curbside and edge of-roadway parking (for example, legal residential parking, city-street parking, etc.). Sometimes a strip of roadway can be designated for parking at certain hours of the day (parking lane) and for regular travel at other hours (travel lane). This code should NOT be used during hours when parking is NOT permitted (see **1 (On Roadway)**).

**9 (Unknown)** is used when the location of the trip point cannot be determined from available resources.

<u>If Relation to Trafficway equals:</u>	<u>Then Location of Rollover should equal:</u>
01 - On Roadway	1 - On Roadway
02 - On Shoulder	2 - On Shoulder
03 - On Median	3 - On Median/Separator
04 - On Roadside	5 - On Roadside
05 - Outside Trafficway	6 - Outside of Trafficway
06 - Off Roadway - Location Unknown	9 - Unknown
07 - In Parking Lane/Zone	7 - In Parking Lane/Zone
08 - Gore	4 - In Gore
10 - Separator	3 - On Median/Separator
11 - Continuous Left-Turn Lane	1 - On Roadway
98 - Not Reported	9 - Unknown
99 - Unknown	9 - Unknown

**Consistency Checks:**

IF	THEN
(A380) FIRST HARMFUL EVENT equals 01 and this vehicle is involved in the first harmful event, and BODY TYPE does not equal 80-89 for this vehicle, and RELATION TO TRAFFICWAY equals _____,	LOCATION OF ROLLOVER should equal _____ respectively.
(V74P) UNIT TYPE equals 1, and ROLLOVER equals 1, 2, 9, or LOCATION OF ROLLOVER equals 1-7, 9,	at least one SEQUENCE OF EVENTS must equal 01 for this vehicle.
(V75P) ROLLOVER is not blank,	LOCATION OF ROLLOVER must not be blank.
(V76P) ROLLOVER is blank,	LOCATION OF ROLLOVER must be blank.
(V77P) ROLLOVER equals 1, 2, 9,	LOCATION OF ROLLOVER must equal 1-7, 9.
(V78P) ROLLOVER equals 0,	LOCATION OF ROLLOVER must equal 0.

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## **AREAS OF IMPACT – INITIAL CONTACT POINT / DAMAGED AREAS**

**FORMAT:** 2 subfields: Subfield 1, 2 numeric;, Subfield 2, Select all that apply

**SAS NAME:** Vehicle.IMPACT1, Person.IMPACT1, Parkwork.PIMPACT1;  
Damage.MDAREAS

**ELEMENT VALUES:**

**Subfield 1: Areas of Impact - Initial Contact Point**

- 00 Non-Collision
- 01-12 Clock Points
- 13 Top
- 14 Undercarriage
- 61 Left
- 62 Left-Front Side
- 63 Left-Back Side
- 81 Right
- 82 Right-Front Side
- 83 Right-Back Side
- 18 Cargo/Vehicle Parts Set-In-Motion
- 19 Other Objects Set-In-Motion
- 98 Not Reported
- 99 Unknown

**Subfield 2: Damaged Areas**

- 01-12 Clock Values
- 13 Top
- 14 Undercarriage
- 15 No Damage
- 99 Damage Areas Unknown

**Definition (Areas of Impact - Initial Contact Point):** This subfield identifies the area on this vehicle that produced the first instance of injury to non-motorists or occupants of this vehicle, or that resulted in the first instance of damage to other property or to this vehicle.

**Definition (Damaged Areas):** This subfield identifies all the areas on this vehicle that were damaged in the crash as reflected in the case materials **by the officer**.

**Remarks:**

If Areas of Impact- Initial Contact Point / Damaged Areas are provided on the crash report in this exact format, use the values from the report unless there are clear errors (e.g. officer switches vehicles by mistake). If these elements are not provided on the crash report in this exact format, then similar report fields, narrative or diagram information may be used to code

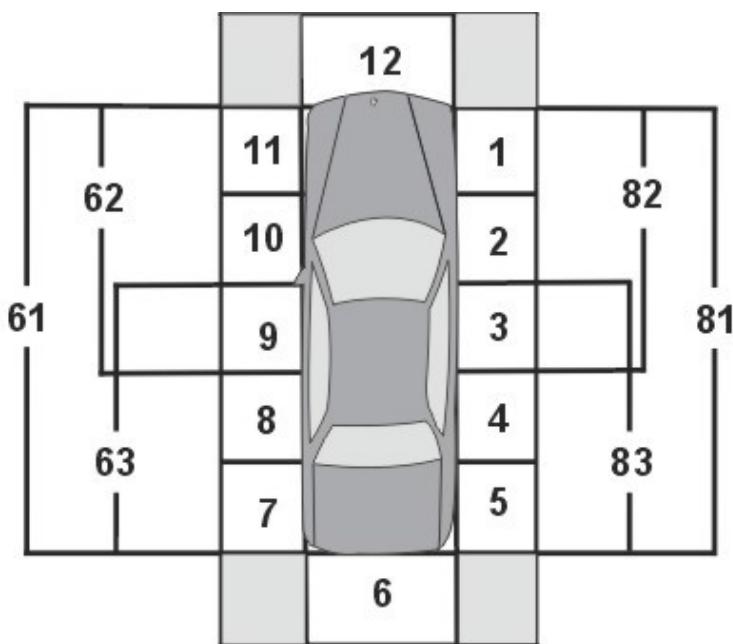
these elements. These subfields do not refer to direction of force of the impact. They identify the area(s) on the vehicle associated with the initial contact (Subfield 1) and all damage to the vehicle identified in the case material (Subfield 2).

#### **Areas of Impact / Initial Contact Point (Subfield 1):**

This subfield identifies the area on this vehicle that produced the first instance of injury to non-motorists or occupants of this vehicle, or that resulted in the first instance of damage to other property or to this vehicle. The event that produced the Initial Contact Point for this vehicle may or may not be the first harmful event for the crash. This data is derived from the Crash Events Table and will always be the first recorded Area(s) of Impact element value for each vehicle in the Crash Events Table.

\*Note the same element values from Areas of Impact – Initial Contact Point are used to complete the Areas of Impact (AOI) fields in the Crash Events Table for all harmful events.

#### **Areas of Impact-Initial Contact Point Element Values Diagram**



#### **00 (Non Collision [Initial Contact Point])**

If the first harmful event involving this vehicle in the Crash Events Table is a non-collision event then Initial Contact Point will be **00 (Non-Collision)**.

**“01-12”** refer to the points on a clock. The sides of the vehicle are divided into 5 equal segments, 01 through 05 for the right side and 07 through 11 for the left side. The front (12), back (06), top (13) and undercarriage (14) complete the outside surfaces of the vehicle. Use

the diagrams at the end of the element for examples of how the 5 equal side segments are created on several vehicle types.

As procedure, start by looking for one of the “clock” values 01-12 or specific situation values 00, 13, 14, 18. If sufficient detail is not available to choose one of these values, move out to the next set of values to try to identify the appropriate codes (i.e., **62-63**, **82-83**, then **61**, **81**). Lastly, for missing information pertaining to known harmful events, a **98 (Not Reported)** attribute is available.

### **61-63 and 81-83:**

Codes, 62-63 and 82-83 are used when there is not sufficient detail available in the case materials to identify a more specific area of impact , 01-05 and 07-11, but one of the quadrants can be identified (i.e., **62 (Left-Front Side)** , **63 (Left-Back Side)**, **82 (Right-Front Side)** or **83 (Right-Back Side)**). Also use these attributes if the case materials indicate that the damage area is “between” or overlapping two known clock points. (e.g., if the damage area is midway between or overlapping clock points 10 and 11, use **62 (Left-Front Side)**).

Codes 61 and 81 are used when there is not sufficient detail available in the case materials to identify a more specific area of impact, 62-63 or 82-83, but one of the sides can be identified (i.e., **61 (Left)** or **81 (Right)**).

### **Guideline for Resolving Ambiguous Information**

If the language in the narrative is ambiguous **AND** the diagram or other case information don't provide resolution, use the area indicated first in the narrative wording to select the Area of Impact to code. See examples table below.

Description	Coding
Front, left	12
Left, front	62
Front, corner	12
Right, rear	83
Back, right side	06

It is important to note that area of impact refers mainly to the area of the vehicle that sustained the damage and does not depend upon the attitude of the vehicle (e.g., damage to a grille is still damage at 12 o-clock even if it was caused by sliding sideways past a utility pole).

However, **13 (Top)** may raise questions. The front and rear windows of some vehicles may also be viewed from the top. It may also be difficult to code impacts to the hood and rear deck of a vehicle.

With **13 (Top)** the direction of force sometimes has to be considered. The following are guidelines for using **13 (Top)**.

1. If the area was damaged by an impact that was received horizontally to an upright vehicle, use one of the codes "01 to 12, 61-63, 81-83."
2. If the area was damaged by an impact that was received from a vertical direction above the upright vehicle, use **13 (Top)**.
3. If the impact was received or direction of force was at an angle of less than 15 degrees above the horizontal, it is considered horizontal.
4. With a vehicle in other than upright attitudes, remember, it is the area of the vehicle which was damaged that is important.

**14 (Undercarriage)** refers to impacts to the tires/wheels, axles, exhaust system, etc.

#### **Special Instructions Involving Motorcycles:**

For cases involving a motorcycle where the area of initial contact is described as "front tire/wheel" or "front end" code as **12 (Front)** or "rear tire/wheel" or "rear end" code as **06 (Back)** if the impact was received on a horizontal plane.

If the only event for a vehicle is a non-collision event, the Area of Impact - Initial is coded **00 (Non-Collision)**. If following a non-collision event, a vehicle has a collision event; Area of Impact, Initial Contact Point is still coded **00 (Non-Collision)**.

Hitting the ground during a non-collision crash is not considered an "impact" for this subfield.

#### **Set-In-Motion Attributes:**

"Loads" of a vehicle includes persons or property upon or set-in-motion by the vehicle, persons boarding or alighting from the vehicle, and persons or property attached to and in position to move with the vehicle. A vehicle that propels part of its load or has set something in motion; striking another vehicle, person or property causing injury or damage; may not have a normal impact point; only the load has made contact with the person or other property. However, a value must be coded. **A load or object should not receive a Sequence of Events 63 (Ran Off Roadway-Right ), 64 (Ran Off Roadway-Left), 65 (Cross Median), 68 (Cross Centerline) or 69 (Re-entering Roadway) because these events apply to the vehicle itself and not to the load or object that was propelled.**

**18 (Cargo/Vehicle Parts Set-In-Motion)** is selected when the harmful event involves an impact between a fixed/non-fixed object or vehicle and cargo or parts from an in-transport motor vehicle which are set-in-motion. That is, use this code when the object set-in-motion is cargo (e.g., mattress, logs, tools, unsecured objects on the in-transport motor vehicle) or a part of an in-transport motor vehicle (e.g., hubcap or mirror).

#### **Example:**

- Vehicle 1 (log truck) swerves to avoid a braking vehicle (Vehicle 2). A log becomes dislodged from Vehicle 1 and lands on Vehicle 2's top.
- Vehicle 1 Area of Impact, Initial Contact Point would be coded as **18 (Cargo/Vehicle Parts Set-In-Motion)**.

- Vehicle 2 Area of Impact, Initial Contact Point would be coded as **13 (Top)**.

**19 (Other Object Set-In-Motion)** is used when the harmful event involves an object set-in-motion by an in-transport motor vehicle which is NOT cargo or part of the in-transport motor vehicle (e.g., kicked-up stone, motorcycle rider, parked vehicle, stop sign) or it is UNKNOWN whether the object was the cargo or a part of an in-transport motor vehicle.

Example:

- Vehicle 1 kicks up a stone which impacts Vehicle 2's windshield.
- Vehicle 1 Area of Impact, Initial Contact Point would be coded as **19 (Other Object Set-In-Motion)**.
- Vehicle 2 Area of Impact, Initial Contact Point would be coded as 12 (Front).

**98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

**Code 98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**Areas of Impact - Initial Contact Point Examples of Not Reported:**

- The case materials lack the detail to identify the initial contact point at all (e.g., narrative only states the vehicle departed the roadway and impacted a tree).
- The case materials lack the detail to identify the initial contact point among a number of possible choices for the first harmful event for the vehicle (e.g., crash report field indicates front and right side damage from separate impacts and does not clarify which area is associated with the initial impact).

**99 (Unknown)** is used if the investigating officer reported that the Initial Contact Point was unknown.

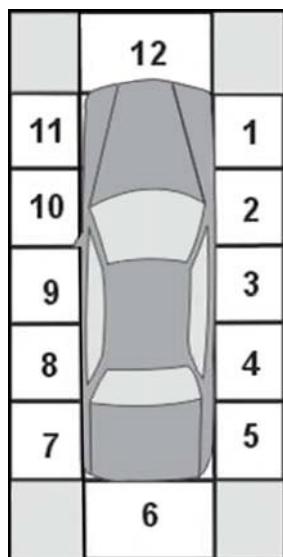
**Areas of Impact - Damaged Areas (Subfield 2):**

This subfield identifies all the areas on this vehicle that were damaged in the crash as reflected in the case materials.

Vehicles noted as "totaled":

This element is identifying the vehicle planes that were damaged so do not make the assumption that a vehicle noted in the case materials as “totaled” translates to all areas being damaged. This term is often referring to the cost to repair the damage not the areas damaged.

#### Damaged Areas Element Values Diagram



\*Note: When entering the data there are three short cut selections in MDE for identifying multiple areas. Those selections are:

1. All Areas – this will select all values **01-12, 13 (Top), and 14 (Undercarriage)**
2. Left Side – this will select all the values **07-11**.
3. Right Side – this will select all the values **01-05**.

**01-12 (Clock Values)** refer to the points on a clock (see diagram above) to identify areas on the vehicle that were damaged in the crash. This subfield includes induced damage identified in the report. For example, the PAR shows an impact centered at 03 (AOI – Initial Contact) that produced damage in 02, 03, 04. The sides of the vehicle are divided into 5 equal segments, 01 through 05 for the right side and 07 through 11 for the left side. The front (12), back (06), top (13) and undercarriage (14) complete the outside surfaces of the vehicle. Use the diagrams at the end of the element for examples of how the 5 equal side segments are created on several vehicle types.

**13 (Top)** includes damage to the hood, windshield, roof, rear window, and trunk deck.

**14 (Undercarriage)** includes damage to the tires/wheels, axles, exhaust system, etc.

**15 (No Damage)** is used for vehicles that experience harmful events but the events do not produce physical damage to the vehicle itself.

Examples include:

- Vehicles that have the non-collision harmful events of gas inhalation, injured in vehicle, fell/jumped from vehicle, or other non-collision.
- Vehicles that have a collision event but the event does not produce damage to the vehicle such as; running over a pedestrian lying in the roadway, striking a bicyclist, striking another vehicle where only the struck vehicle is damaged, or when the only collision event is cargo falling from this vehicle that lands on another vehicle or person.

**99 (Damage Areas Unknown)** is used when the case materials do not indicate which area or areas received damage or when the information on the PAR is confusing or inadequate for the purposes of this determination.

**Handling of known events with unknown damage areas:**

For situations where you have known damage areas associated with a specific event(s) and additional harmful events without knowing specific damage areas for the additional events, code only the known damage areas in this subfield. For example, if the PAR narrative only states that “V1 departed the roadway striking several trees” with the only indication of damage given as the initial front contact, and a PAR box marked ‘Totaled’, code only 12 for the known damage to the front of the vehicle.

**Handling of non-collision harmful events that produce vehicle damage:**

For situations ***where a vehicle is involved in the following non-collision harmful events:*** (1) Rollover/Overturn, (02) Fire/Explosion, (03) Immersion or Partial Immersion, (16) Thrown or Falling Object, (44) Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.), (51) Jackknife (harmful to this vehicle), or (72) Cargo/Equipment Loss or Shift (harmful to this vehicle), **code only** the damage areas reflected in the case materials ***by the officer***.

For example ***the investigating officer may indicate damaged locations that translate to:***

- **01-12, 13, 14** for a vehicle that was consumed by a fire or immersed in a river.
- **01-05, 13** for a vehicle that rolls onto its right side and then roof.
- **13** for a vehicle that only has damage to the hood from a fire.
- **13** for a vehicle that has a tree fall ***it's roof***.
- **14** for a vehicle that strikes a pothole ***on its undercarriage***.

***Do not record damage at these locations for these non-collision harmful events unless so indicated by the case materials.***

If a vehicle that experiences only these non-collision events ***and*** has only “non-collision” reflected in the case materials ***by the officer*** for its damaged areas, then use **99 (Damage Areas Unknown)**.

### **FARS and GES SPECIAL INSTRUCTION:**

Prior to 2010, FARS recorded the Impact Point-Initial and the Impact Point-Principal for each vehicle. If a vehicle had no impacts throughout a crash, the Initial and Principal Impact Points were both "00 - Non-Collision". Non-Collision Events (including Rollovers) are not considered "impacts".

If the vehicle first had a Non-Collision Event but then experienced a Collision Event later in the accident, the clock point on the vehicle associated with that collision was recorded as the Impact Point-Initial. If this was the only Collision Event for the vehicle, then it was also the Impact Point-Principal for the vehicle. Otherwise, Impact Point, Principal was the clock point on the vehicle associated with the Collision Event that produced the most severe incidence of injury or property damage involving this vehicle.

FARS began in 2010 recording INITIAL DAMAGED AREA and MOST DAMAGED AREA for this vehicle. If the initial damage to the vehicle is caused by a Non-Collision Event, the INITIAL DAMAGED AREA is coded "00 – Non-Collision". The MOST DAMAGED AREA simply recorded the area of this vehicle sustaining the most damage in the crash. GES adopted the "most damaged area" data element in 2010.

Beginning in 2012, as a result of modifications to the Model Minimum Uniform Crash Criteria (MMUCC) FARS and GES renamed INITIAL DAMAGED AREA as INITIAL CONTACT POINT and replaced MOST DAMAGED with the new sub-field DAMAGED AREAS.

### **Consistency Checks:**

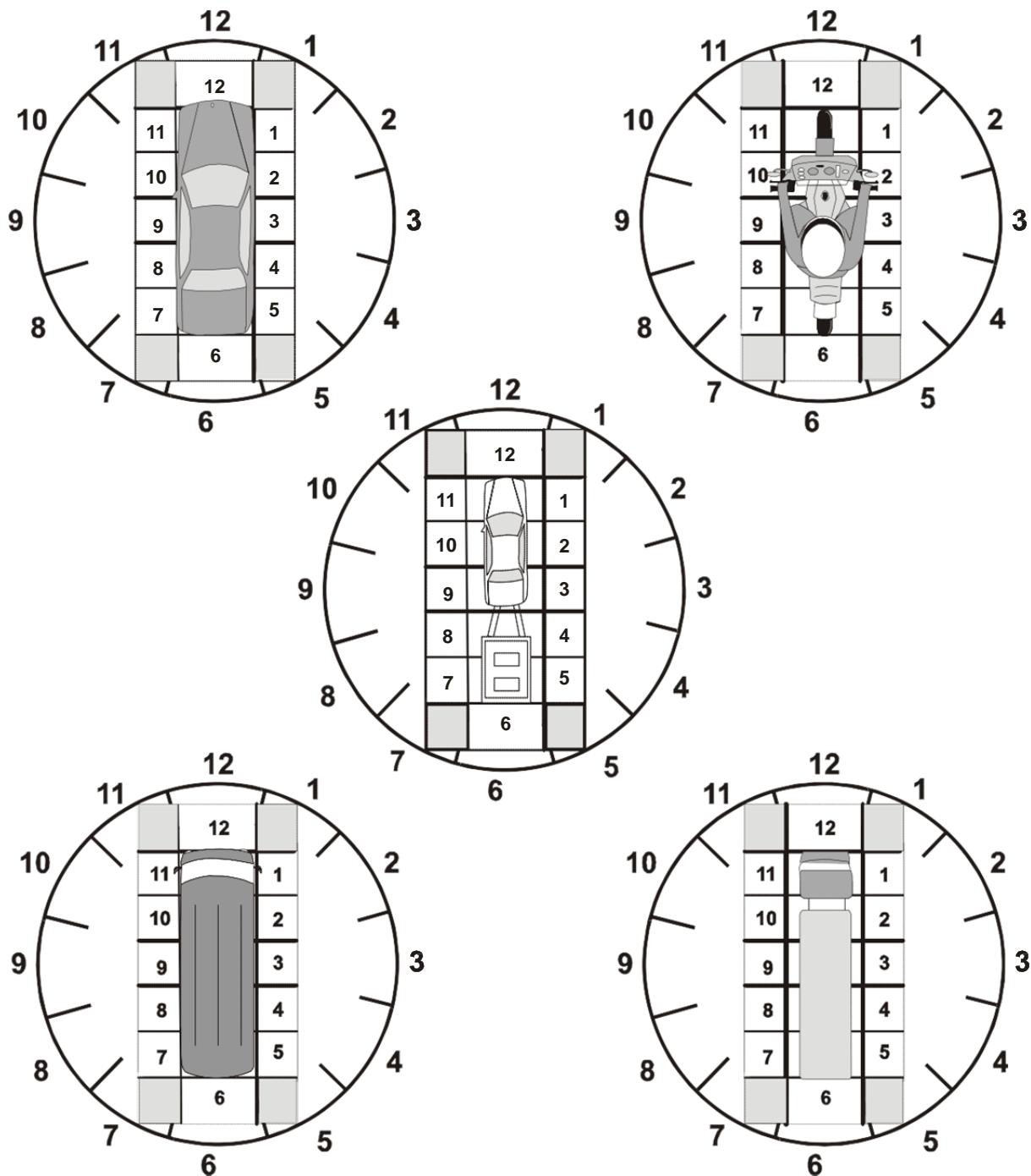
<b>IF</b>	<b>THEN</b>
(2U0Q) BODY TYPE equals 80-83, 88, 89,	AREAS OF IMPACT - INITIAL CONTACT POINT should not equal 14.
(3B2P) CRASH TYPE equals 20, 24, 28, 34, 36, 38, 40, 50-54, 56, 58 or 60,	AREAS OF IMPACT-INITIAL CONTACT POINT must equal 12 for this vehicle.
(3B3P) CRASH TYPE equals 21-23, 25-27, 29-31, 35, 37, 39 or 41,	AREAS OF IMPACT-INITIAL CONTACT POINT must equal 6 for this vehicle.
(3B6P) CRASH TYPE equals 87,	AREAS OF IMPACT-INITIAL CONTACT POINT must equal 01-05, 81-83 for this vehicle.
(3B7P) CRASH TYPE equals 89,	AREAS OF IMPACT-INTIAL CONTACT POINT must equal 07-11, 61-63 for this vehicle.
(3CA0) EXTENT OF DAMAGE for this vehicle equals 0,	DAMAGED AREAS must equal 15.
(420P) MANNER OF COLLISION equals 07, 08,	there must be at least two vehicle forms with AREAS OF IMPACT-INITIAL CONTACT POINT equal to 01-05, 07-11, 61-63, 81-83, 98, 99.

IF	THEN
(421P) MANNER OF COLLISION equals 01,	AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 12, and AREAS OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 06.
(422P) MANNER OF COLLISION equals 02,	AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 12, and AREAS OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 12.
(423P) MANNER OF COLLISION equals 06,	AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 01, 11, 12, 98, 99, and AREAS OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 01-05, 07-11, 61-63, 81-83, 98, 99.
(424P) MANNER OF COLLISION equals 09,	AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event should equal 06, and AREAS OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the first harmful event should equal 01-05, 07-11, 61-63, 81-83, 98, 99.
(425P) MANNER OF COLLISION equals 10,	AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event should equal 06, and AREAS OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the first harmful event should equal 06, 98, 99.
(8L8Q) AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19 in the CRASH EVENTS,	the corresponding event in that row must not equal 12 or 55.
(8L8R) the CRASH EVENTS event equals 54,	AREAS OF IMPACT (THIS VEHICLE) must equal 18 or 19 in that row.
(8L8S) AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19 in the CRASH EVENTS and the corresponding event in that row equals 14, 45 or 54,	RELATED FACTORS-CRASH LEVEL must equal 14.

	IF	THEN
(8L8T)	RELATED FACTORS-CRASH LEVEL equals 14,	there must exist at least one event in the CRASH EVENTS where AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19 and the corresponding event in that row equals 14, 45 or 54.
(8L8U)	AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19 in the CRASH EVENTS and the corresponding event in that row equals 08, 09, 15, 49,	RELATED FACTORS-CRASH LEVEL must equal 15.
(8L8V)	RELATED FACTORS-CRASH LEVEL equals 15,	there must exist at least one event in the CRASH EVENTS where AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19, and the corresponding event in that row equals 08-10, 15, 18 or 49.
(8L8X)	AREAS OF IMPACT (THIS VEHICLE) equals 18,	there should be a previous event involving that vehicle where the CRASH EVENTS event equals 60.
(8L9P)	<b>BODY TYPE does not equal 80-83, 88-91, and the</b> CRASH EVENTS event equals 54, and the corresponding AREAS OF IMPACT (THIS VEHICLE) equals 19 in that row,	there should be a previous event with CRASH EVENTS event equal to 18 or 73 involving that vehicle.
(BZ10)	CRITICAL EVENT – PRECRASH (EVENT) equals 53,	AREAS OF IMPACT-INITIAL CONTACT POINT should not equal 12 for this vehicle.
(BZ20)	CRITICAL EVENT – PRECRASH (EVENT) equals 51, 52,	AREAS OF IMPACT-INITIAL CONTACT POINT should not equal 06 for this vehicle.
(FP1F)	AREAS OF IMPACT – INITIAL CONTACT POINT equals blank, case status is flawed.	AREAS OF IMPACT – INITIAL CONTACT POINT equals blank, case status is flawed.
(VH81)	any DAMAGED AREAS equals 15 or 99,	only that one values must be coded.
(VH82)	EXTENT OF DAMAGE for this vehicle equals 2, 4, 6,	DAMAGED AREAS must not equal 15.
(VH83)	the only harmful SEQUENCE OF EVENTS for this vehicle equals 04-06,	DAMAGED AREAS should equal 15.
(VH84)	the only harmful SEQUENCE OF EVENTS for this vehicle equals 01-03, 16, 44, 51, 72,	DAMAGED AREAS should not equal 15.
(VH85)	AREAS OF IMPACT-INITIAL CONTACT POINT equals 61-63,	DAMAGED AREAS should include at least one of the codes 07-11, or <b>DAMAGED AREAS should equal 15.</b>

	IF	THEN
(VH86)	AREAS OF IMPACT-INITIAL CONTACT POINT equals 81-83,	DAMAGED AREAS should include at least one of the codes 01-05, <b><i>or</i></b> <b><i>DAMAGED AREAS should equal 15.</i></b>
(VH87)	HIT-AND-RUN equals 0, and AREAS OF IMPACT-INITIAL CONTACT POINT equals 01-14,	the corresponding code should be included in DAMAGED AREAS or DAMAGED AREAS should equal 15.

## CLOCKPOINT DIAGRAM



## EXTENT OF DAMAGE

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.DEFORMED, Parkwork.PVEH\_SEV

**ELEMENT VALUES:**

- 0 No Damage
- 2 Minor Damage
- 4 Functional Damage
- 6 Disabling Damage
- 8 Not Reported
- 9 Unknown

**Definition:** This element indicates the amount of damage sustained by this vehicle in this crash as indicated in the case materials based on an operational damage scale.

**Remarks:**

**0 (No Damage)** is used when there is no damage indicated in the available information for this vehicle.

**2 (Minor Damage)** is damage that does not disable or affect the operation of the motor vehicle. This attribute is used when the case materials indicate damage to the vehicle to be Minor or less than Functional and the vehicle is not towed due to damage.

Examples of **2 (Minor Damage)** include: dented or bent fenders, bumpers, grills, body panels and destroyed hubcaps.

**4 (Functional Damage)** is damage that is not disabling, but affects the operation of the motor vehicle or its parts. This attribute is used when the available information specifically indicates the damage is moderate or functional.

Examples of **4 (Functional Damage)** include:

- doors, windows, hood and trunk lids that will not operate properly;
- broken glass that obscures vision;
- damage that would prevent the motor vehicle from passing an official motor vehicle inspection;
- tire damage even though the tire may have been changed at the scene;
- bumpers that are loose;
- headlamp or taillight damage that would make night driving hazardous but would not affect daytime driving; and,
- damage to turn signals, horn or windshield wipers, that makes them inoperative.

**6 (Disabling Damage)** is damage that precludes departure of the motor vehicle from the crash scene in its usual daylight-operating manner after simple repairs. As a result, the motor vehicle would have had to have been towed, or carried from the crash scene, or assisted by an emergency motor vehicle. This attribute should be used when the available information specifically indicates disabling or severe damage. This attribute is also used when the damage is indicated to be of greater magnitude than Functional (moderate), e.g., major, extensive, totaled and the vehicle was towed from the scene.

### **8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**9 (Unknown)** is used when the available information specifically indicated the damage severity to be unknown.

**Note:** There is a distinction between the cost to repair the damage and the degree to which the damage affects the vehicle's operability (totaled, under/over monetary threshold). Operational damage is recorded here. For example, if the available information indicates that the vehicle was totaled and the vehicle was towed away, use **6 (Disabling Damage)**. However, if the available information indicates that the vehicle was totaled, but the vehicle was driven away, use **4 (Functional Damage)**.

### **Consistency Checks:**

<b>IF</b>	<b>THEN</b>
(3C0P) UNIT TYPE equals 1, and EXTENT OF DAMAGE equals 6,	VEHICLE REMOVAL should equal 2, 8, 9.
(3C1P) EXTENT OF DAMAGE equals 0, 2,	VEHICLE REMOVAL must not equal 2.
(3C1Q) EXTENT OF DAMAGE equals 0, 2,	VEHICLE REMOVAL should equal 3 or 5.
(3C2P) VEHICLE REMOVAL equals 2,	EXTENT OF DAMAGE must equal 6, 8, 9.
(3C3P) EXTENT OF DAMAGE equals 6,	VEHICLE REMOVAL must not equal 3.

	IF	THEN
(3CA0)	EXTENT OF DAMAGE for this vehicle equals 0,	DAMAGED AREAS must equal 15.
(VH82)	EXTENT OF DAMAGE for this vehicle equals 2, 4, 6,	DAMAGED AREAS must not equal 15.

**Consistency Check: (FARS ONLY)**

- (U370) UNLIKELY: EXTENT OF DAMAGE equals 8 *if STATE NUMBER does not equal 48, 49, 53.*

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## VEHICLE REMOVAL

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.TOWED, Parkwork.PTOWED

**ELEMENT VALUES:**

- 2 Towed Due to Disabling Damage
- 3 Towed Not Due to Disabling Damage
- 5 Not Towed
- 8 Not Reported
- 9 Unknown

**Definition:** This data element describes the mode in which the vehicle left the scene of the crash.

**Remarks:**

This data element describes the mode in which the vehicle left the scene of the crash. Towing includes vehicles carried from the scene on a flatbed tow truck.

If the vehicle is a combination vehicle (power unit and at least one trailer), the power unit and/or trailer(s) are considered when determining tow status. If the available information indicates the power unit, or trailer of a combination unit, sustained enough damage to require towing, consider this vehicle as towed due to damage.

**GES SPECIAL INSTRUCTION:**

For articulated light vehicles, that are not commercial, do not code Vehicle Removal as "towed" if only the trailer portion of the combination is towed. The state specific tow rules for sampling also apply here.

**2 (Towed Due to Disabling Damage)** is used for any towing which is due to disabling damage caused by this crash which prohibits vehicle movement under its own power. Towed due to disabling damage includes any towing when the reason for towing is unknown. In other words, if a vehicle is reported in the case materials as towed but it cannot be determined whether it was due to disabling damage or for other reasons, then the default assumption is that this vehicle was towed due to disabling damage - the data element **Extent of Damage** can still be **8 (Not Reported) or 9 (Unknown)**.

If a vehicle was pushed by hand or by another vehicle after the crash because it was not drivable, then use **2 (Towed Due to Disabling Damage)**.

If a vehicle was towed due to damage AND for other reasons such as driver arrest, then code this vehicle as **2 (Towed Due to Disabling Damage)**.

**3 (Towed Not Due to Disabling Damage)** is used when the vehicle has been towed but the towing results from other than disabling damage (e.g., minor damage, functional damage, mired vehicles, driver arrested, injured driver, etc.).

**5 (Not Towed)** is used when it is specifically indicated in the available information that the vehicle was not towed or when the preponderance of the information available indicates that the vehicle was driven away or was not towed. Not Towed is also used when preponderance of the information available indicates that the vehicle remained at the scene unless the damage severity for the vehicle is noted as disabling on the PAR. If the preponderance of the information available indicates that the vehicle remained at the scene and the damage severity for the vehicle is noted as disabling on the PAR, then use **2 (Towed Due to Disabling Damage)**.

**NOTE:** The PAR narrative may be used to supercede and/or clarify the above information.

### **8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**9 (Unknown)** is used when the investigating officer indicates it was unknown as to how the vehicle was removed.

### **Consistency Checks:**

IF	THEN
(3C0P) UNIT TYPE equals 1, and EXTENT OF DAMAGE equals 6,	VEHICLE REMOVAL should equal 2, 8, 9.
(3C1P) EXTENT OF DAMAGE equals 0, 2,	VEHICLE REMOVAL must not equal 2.
(3C1Q) EXTENT OF DAMAGE equals 0, 2,	VEHICLE REMOVAL should equal 3 or 5.
(3C2P) VEHICLE REMOVAL equals 2,	EXTENT OF DAMAGE must equal 6, 8, 9.
(3C3P) EXTENT OF DAMAGE equals 6,	VEHICLE REMOVAL must not equal 3.
(U430) UNLIKELY: VEHICLE REMOVAL equals 8.	

**Consistency Check (GES Only):**

IF	THEN
(5A3P) FINAL STRATUM equals 1, 5 or 6,	there should exist at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2. there should exist: 1) at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 4 for at least one occupant of that vehicle; or 2) one and only one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 3 for at least one occupant of that vehicle; or 3) 2 or more vehicles where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and at least 2 vehicles where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 3 for at least one occupant of a vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2.
(5A4P) FINAL STRATUM equals 1,	
(5A5P) FINAL STRATUM equals 5,	there should exist at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 1, 2, 3 or 5 for at least one occupant of that vehicle.
(5A6P) FINAL STRATUM equals 2,	there 1) should exist at least one vehicle where UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2; or 2) INJURY SEVERITY should equal 1-5 for at least one person in the crash.
<b>(VH88) <i>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49 or 60-79,</i></b>	<b><i>STRATUM should not equal 4.</i></b>

	IF	THEN
(VH89)	<i>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49,</i>	<i>STRATUM should not equal 3.</i>
(VH90)	<i>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49 or 60-79,</i>	<i>FINAL STRATUM must not equal 4.</i>
(VH91)	<i>UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49,</i>	<i>FINAL STRATUM must not equal 3.</i>

## SEQUENCE OF EVENTS

**FORMAT:** Read Only

**SAS NAME:** Cevent.SOE; Vevent.SOE

**ELEMENT VALUES:**

**Non-Harmful Events:**

- 61 Equipment Failure (blown tire, brake failure, etc.)
- 62 Separation of Units
- 63 Ran Off Roadway-Right
- 64 Ran Off Roadway-Left
- 79 Ran off Roadway - Direction Unknown**
- 71 End Departure
- 65 Cross Median
- 68 Cross Centerline
- 66 Downhill Runaway
- 67 Vehicle Went Airborne
- 69 Re-entering Roadway
- 70 Non-harmful, Swaying Trailer/Jackknife**
- 60 Cargo/Equipment Loss or Shift (non-harmful)

**Non-Collision Harmful Events:**

- 1 Rollover/Overtur
- 2 Fire/Explosion
- 3 Immersion or Partial Immersion
- 4 Gas Inhalation
- 51 Jackknife (harmful to this vehicle)
- 06 Injured in Vehicle (Non-Collision)
- 44 Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)
- 07 Other Non-Collision
- 72 Cargo/Equipment Loss or Shift (harmful to this vehicle)
- 16 Thrown or Falling Object
- 05 Fell/Jumped from Vehicle

**Collision with Motor Vehicle In-Transport:**

- 12 Motor Vehicle In-Transport
- 54 Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport
- 55 Motor Vehicle In Motion Outside the Trafficway

**Collision with Object Not Fixed:**

- 8 Pedestrian
- 9 Pedalcyclist
- 10 Railway Vehicle

- 11 Live Animal
- 49 Ridden Animal or Animal-Drawn Conveyance
- 18 Other Object (Not Fixed)
- 15 Non-Motorist on Personal Conveyance
- 14 Parked Motor Vehicle
- 45 Working Motor Vehicle
- 73 Object Fell From Motor Vehicle In-Transport

**Collision with Fixed Object:**

- 17 Boulder
- 19 Building
- 58 Ground
- 20 Impact Attenuator/Crash Cushion
- 50 Bridge Overhead Structure
- 21 Bridge Pier or Support
- 23 Bridge Rail (Includes Parapet)
- 24 Guardrail Face
- 52 Guardrail End
- 25 Concrete Traffic Barrier
- 57 Cable Barrier
- 26 Other Traffic Barrier
- 59 Traffic Sign Support
- 46 Traffic Signal Support
- 30 Utility Pole/Light Support
- 31 Other Post, Other Pole or Other Supports
- 32 Culvert
- 33 Curb
- 34 Ditch
- 35 Embankment
- 38 Fence
- 39 Wall
- 40 Fire Hydrant
- 41 Shrubbery
- 42 Tree (Standing Only)
- 48 Snow Bank
- 53 Mail Box
- 43 Other Fixed Object
- 99 Unknown

**Definition:** The events in sequence related to this motor vehicle, regardless of injury and/or property damage. Code each event for this vehicle in the order in which they occur, time wise, from the Police Accident Report (PAR) narrative and diagram.

**Remarks:**

This data element is derived from the Crash Events Table. Recording of Crash Events ends at the last harmful event of the entire crash. Therefore, a non-harmful event (e.g., Crossing the Centerline) that occurs following the last harmful event of the crash will not be included. Correction to the Sequence Events order must be made by revision to the Crash Events Table.

**Non-Harmful Event:**

**61 (Equipment Failure)** (blown tire, brake failure, etc.) Examples of equipment failure include blown tires, brake failures, etc.

**62 (Separation of Unit)** is used when a trailing unit separates from its power unit or another trailing unit(s). This applies to truck tractors with trailer(s), single-unit trucks with a trailer and other vehicles pulling a trailer (e.g., car pulling a boat or motor home).

**63 (Ran Off Roadway-Right)** is used if the vehicle runs off the right side of the roadway. Identification of running off roadway can be determined from the case materials. This attribute can be used anytime in the event sequence before or after any harmful events. ***This attribute does not apply to the "load" in cases involving Areas of Impact 18 (Cargo/Vehicle Parts Set-In-Motion) or 19 (Other Objects Set-In-Motion).***

**64 (Ran Off Roadway-Left)** is used if the vehicle runs off the left side of the roadway. Identification of running off roadway can be determined from the case materials. This attribute can be used anytime in the event sequence before or after any harmful events. ***This attribute does not apply to the "load" in cases involving Areas of Impact 18 (Cargo/Vehicle Parts Set-In-Motion) or 19 (Other Objects Set-In-Motion).***

**79 (Ran off Roadway-Direction Unknown)** is used when it cannot be determined from the case materials and there are no witness statements available to determine whether a vehicle ran off the roadway right or left.

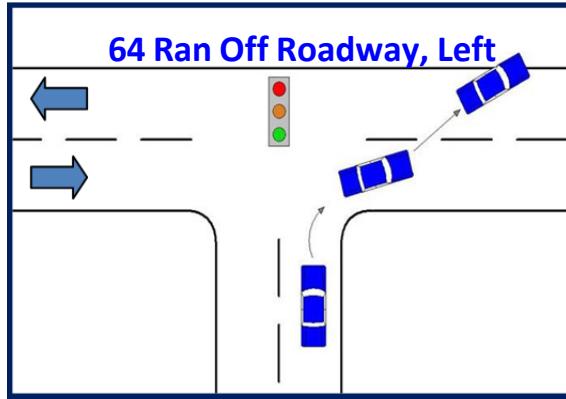
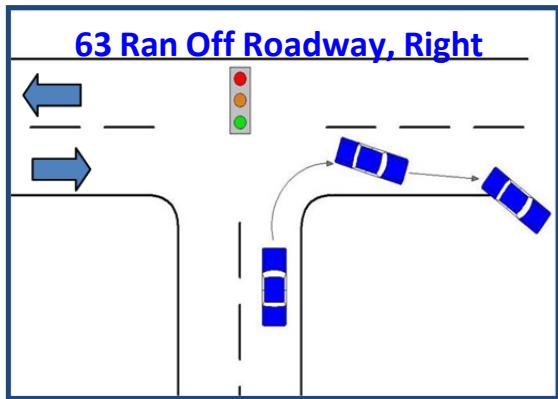
**Coding Guidelines for Running Off Roadway (Right or Left)****For Divided Highways:**

On a divided highway, a vehicle can run off the roadway by leaving the roadway and entering the median. When this occurs involving a vehicle on the correct side of a divided highway, the proper “Ran Off Roadway” attribute is always **64 (Ran Off Roadway - Left)**. **64 (Ran Off Roadway - Left)** will also apply in situations where the vehicle traverses the median and continues across the opposing roadway.

**For vehicles turning at “T-intersections”:**

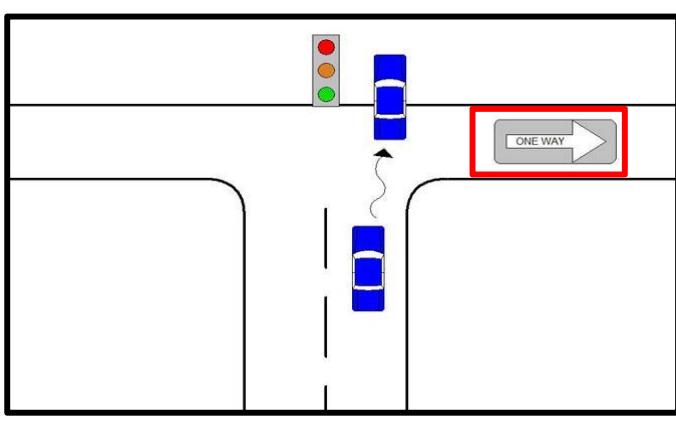
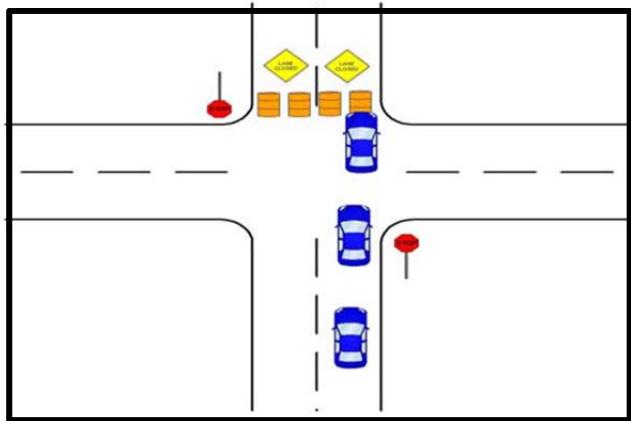
For “T-intersections” when the vehicle loses control when in a turn, choose right or left based upon the direction of travel for the vehicle’s proper travel lane for their intended travel path.

For vehicles traveling straight through “T-Intersections” use **71 (End Departure)**. See diagrams below.



**71 (End Departure)** is used if the vehicle leaves the roadway by traveling straight through the top of a “T-intersection” of a two-way trafficway or top of an intersecting one-way roadway. This code should also apply to vehicles traveling off the end of dead end roadways or into the barrier of a closed trafficway. See diagrams below.

### 71 – End Departure



**65 (Cross Median)** is used when a vehicle departs its roadway and traverses the median and enters the shoulder or travel lanes on the opposite side of a divided highway. ***This attribute does not apply to the "load" in cases involving Areas of Impact 18 (Cargo/Vehicle Parts Set-In-Motion) or 19 (Other Objects Set-In-Motion).***

**68 (Cross Centerline)** is used when a vehicle crosses over the centerline of a two-way, undivided highway. The centerline must be delineated with paint or raised markers. ***This is also used for unstabilized situations involving vehicles that depart from their initial travel lane(s) and enter the continuous left-turn lane, having a harmful event that is located within the marked boundaries of the continuous left-turn lane. This attribute also applies to vehicles that traverse the continuous left-turn lane area, having a harmful event that is located in the opposing travel lane(s). This attribute does not apply***

*to the "load" in cases involving Areas of Impact 18 (Cargo/Vehicle Parts Set-In-Motion) or 19 (Other Objects Set-In-Motion).*

**66 (Downhill Runaway)** refers to any vehicle that cannot decelerate on a downhill grade.

**67 (Vehicle Went Airborne)** must only be used if the officer indicates by narrative or diagram that the vehicle left the ground (excludes vehicles going airborne during a rollover event). Examples: the vehicle drove off a cliff, the vehicle was launched into the air after striking another vehicle or after traversing a berm.

**69 (Re-entering Roadway)** is used when a vehicle that departed the roadway portion of the trafficway returns to the same roadway (e.g., a motor vehicle in transport runs off the roadway right, strikes the guardrail face, then re-enters the roadway and collides with another motor vehicle in transport). *This attribute does not apply to the "load" in cases involving Areas of Impact 18 (Cargo/Vehicle Parts Set-In-Motion) or 19 (Other Objects Set-In-Motion).*

**70 (Non-harmful, Swaying Trailer/Jackknife)** applies to a condition that occurs to an articulated vehicle, (any vehicle with a trailing unit(s) connected by a hitch; e.g., truck tractor or single-unit truck with one or more trailers, articulated bus, car pulling a boat on a trailer, etc.) while in motion. The condition reflects a loss of control of the vehicle by the driver in which the trailer(s) yaws from its normal straight-line path behind the power unit.

**60 (Cargo/Equipment Loss or Shift [non-harmful])** refers specifically to the loss or shift of items carried on or in a motor vehicle or its trailing unit, and not to the vehicle or trailing unit, itself. This attribute should never be used:

1. to refer to a “collision” event (see **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)**)
2. to a harmful event related to the loss or shift of cargo in/on a vehicle causing damage to that vehicle, its cargo, or injury to its occupants (see **72 (Cargo/Equipment Loss or Shift [harmful to this vehicle])**).

Example:

A load of logs on a tractor semi-trailer shifts as the truck rounds a curve resulting in an overturn.

Non-Collision events involving motorcycles and vehicles with a “load”:

Non-Collision events may occur before or after a collision event. They should not be coded as a separate event if they occur as part of a collision event.

**Examples:**

- A motorcycle strikes a deer, overturns and the rider becomes separated from the vehicle. Code the collision event, not the non-collision “Rollover/Overtur” and “Vehicle Occupant Fell from Vehicle” that occur as part of the collision event.
- One tractor/trailer rear-ends another tractor/trailer. The impact pushes the lead vehicle’s load into the back of the tractor cab with part falling onto the roadway. Code the collision event, not the non-collision “cargo-loss or shift” that occurred as part of the collision event.

**1 (Rollover/Overtur)** is used when a motor vehicle rotates (rollover) at least one quarter turn onto its side or end.

**NOTES regarding 01 (Rollover/Overtur):**

- For motorcycles, laying the motorcycle down on its side is sufficient to use attribute **01 (Rollover/Overtur)** as a harmful event if damage or injury is produced, even though the data element Rollover is not applicable to motorcycles.
- **58 (Ground)** is not to be entered when the harmful event is **01 (Rollover/Overtur)**.
- A vehicle rolls over 3 quarter turns. This is one rollover event involving 3 quarter turns.
- If there is a **01 (Rollover/Overtur)** that begins in another location but involves a ditch or embankment in the case (e.g., “rolled through the ditch”, “rolled down the embankment”, “came to rest against the embankment”), then the rule applies where if there is no damage associated with an impact with the fixed object during the rollover, it is not included in the Crash Events. If there is indication that damage resulted from an impact with the fixed object, it is included in the Crash Events. This follows the same logic as striking a tree or another vehicle during an overturn.
- For a vehicle that rolls over, impacts a fence and continues to rollover. Only two events would be coded for that circumstance. The first event would be the rollover followed by an impact with the fence. In order for more than one rollover event to appear in a vehicles sequence of events, the vehicle must return to its wheels, and track for a period of time before experiencing a separate rollover event. This would be a rare occurrence and must be clearly identified in the case materials.

**Note:** For medium/heavy trucks with attached trailers by fixed linkage, when either the power unit or the trailer rolls over, the entire vehicle will be considered a rollover.

**GES SPECIAL INSTRUCTION:**

For articulated light vehicles, that are not commercial do not code a **Rollover/Overtur** if only the trailer portion of the combination overturns.

**2 (Fire/Explosion)** is used for a vehicle fire or explosion that occurs during the crash sequence or as a result of the crash.

As it pertains to the occurrence of **02 (Fire/Explosion)**, the crash circumstances are not considered stabilized until the threat of damage to this vehicle, or injury consequences to this vehicle's occupants, has ceased. Therefore, the crash sequence is not considered stabilized until all occupants have exited the vehicle and the scene has been declared safe by police or other authority. Fires that occur at a later time to vehicles abandoned at the scene (e.g., in open fields, on hillsides, etc.) or to vehicles removed from the scene to another location (tow yard, curbside, etc.) are not considered part of the crash sequence.

**3 (Immersion or Partial Immersion)** is used when an in-transport motor vehicle enters a body of water and results in injury or damage. This code would also be used if the vehicle came to rest in water and the depth cannot be ascertained from case materials. NOTE: In immersion fatalities the injury to the person may be noted as "drowning".

**4 (Gas Inhalation)** includes injury or death as a result of toxic fumes, such as carbon monoxide fumes leaking from a motor vehicle in-transport.

**51 (Jackknife [harmful to this vehicle])** applies to a condition that occurs to an articulated vehicle, (any vehicle with a trailing unit(s) connected by a hitch; e.g., truck tractor or single-unit truck with one or more trailers, articulated bus, car pulling a boat on a trailer, etc.) while in motion. The condition reflects a loss of control of the vehicle by the driver in which the trailer(s) yaws from its normal straight-line path behind the power unit, striking the power unit, causing damage to the power unit or trailer. Jackknife should only be coded as a harmful event if there is clear indication of damage to the jackknifed vehicle or injury to its occupants caused by the jackknife.

**06 (Injured in Vehicle [Non-Collision])** is used when an occupant is injured during an unstabilized situation without a collision, excluding cargo/equipment loss or shift. Examples: Driver slams on brake, causing an unrestrained passenger to be injured. Driver makes a sharp turn causing driver to strike head on side window, knocking driver unconscious.

**44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.])** is used when the pavement surface irregularity is on a roadway. If the impact is with a surface irregularity (e.g. ruts, potholes) not on a roadway use the **58 (Ground)**.

**07 (Other Non-Collision).** Non-collision not captured in the listed non-collision attributes.

Example:

Damage to the vehicle produced by its own dislodged vehicle parts (including hood flying up and contacting the windshield).

**16 (Thrown or Falling Object)** is used when any object (1) is thrown (intentionally or unintentionally) and impacts an in-transport vehicle, or (2) falls onto, into, or in the path of an in-transport motor vehicle. If a tree limb falls from a tree and is contacted by a car, enter **16 (Thrown or Falling Object)**. If a person maliciously throws an object off an overpass into traffic below, enter **16 (Thrown or Falling Object)**. This excludes contacts made by loads or objects set in-motion by a motor vehicle (see **54 (Motor Vehicle In-Transport Strikes or is**

**Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)).**

**72 (Cargo/Equipment Loss or Shift [harmful to this vehicle])** refers specifically to the loss or shift of items carried on or in a motor vehicle or its trailing unit, and not to the vehicle or trailing unit, itself. This attribute is only used when the injury- or damage-producing event in the crash is the loss or shift of cargo in/on a vehicle causing damage to that vehicle, its cargo, or injury to its occupants. This attribute should never be used to refer to a “collision” event (see **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)**)

Example:

A pickup truck brakes rapidly to avoid a collision. This causes a piece of lumber in the pickup bed to smash through the rear window.

**05 (Fell/Jumped from Vehicle)** is used when an occupant of this vehicle falls or jumps (not suicide) from the vehicle causing injury. For example, an occupant of a motor vehicle in-transport leans against the car door, it opens and the occupant falls out; or a person riding on a vehicle’s exterior (hood, roof, running board, etc.) falls or jumps, and is injured by the fall. If an occupant falls or jumps from a vehicle and is struck by that vehicle, use this attribute.

**12 (Motor Vehicle In-Transport)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact within the trafficway boundaries. In-transport means that the motor vehicle is in-motion or on the roadway portion of a trafficway.

**54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact by something set-in-motion by one of the vehicles. In these circumstances, both vehicles should have this attribute in their Sequence of Events. In crashes involving harmful events caused by objects set-in-motion by a Motor Vehicle in-transport, remember that a vehicle’s load is considered part of the vehicle.

Examples:

1. If cargo falls from a truck (in-transport) and strikes another motor vehicle in-transport, this is treated as a two-vehicle crash. Therefore, the proper code for both vehicles is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)**.
2. If cargo falls from a truck (in-transport) and strikes another vehicle that is not in-transport, this is also treated as a two-vehicle crash; however in this example, the proper attribute is **14 (Parked Motor Vehicle)** or **45 (Working Motor Vehicle)** depending on which type of not in-transport vehicle was contacted by the load.
3. If cargo falls from a truck (in-transport) and strikes a pedestrian, the proper attribute would be **08 (Pedestrian)**.

**55 (Motor Vehicle In Motion Outside the Trafficway)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact outside the trafficway boundaries in a motor vehicle traffic crash.

**Example:**

A vehicle loses control attempting to turn into a gas station and strikes another vehicle pulling away from the pump in the station lot.

**8 (Pedestrian)** is used for all those not on a personal conveyance. A person pushing a vehicle should be coded **08 (Pedestrian)**. A person being carried by another person should also be considered a **08 (Pedestrian)**.

**9 (Pedalcyclist)** is used for any person on a non-motorized other road vehicle propelled by pedaling. Examples include a bicycle, tricycle, unicycle or pedal car.

**10 (Railway Vehicle)** is any land vehicle that is (1) designed primarily for, or in use for, moving persons or property from one place to another on rails and (2) not in use on a land way other than a railway.

## Inclusions:

- Street car on private way

## Exclusions:

- Street car operating on trafficway

**11 (Live Animal)** is used for collisions with live animals (domesticated or wild) that are not themselves being used as transportation or to draw a wagon, cart or other transport device (see ANSI D16.1). Default to **11 (Live Animal)** if it cannot be determined if the struck animal is alive, dead or if it was being ridden or drawing a transport device.

Use **49 (Ridden Animal or Animal-Drawn Conveyance)** for ridden animals and animals drawing transport devices. See **18 (Other Object [Not Fixed])** for an animal carcass lying in the roadway.

**18 (Other Object [Not Fixed])** is used when a motor vehicle in-transport strikes a non-fixed object that is known NOT to have been the cargo or part of another motor vehicle in-transport or when it is UNKNOWN whether the object was the cargo or part of another motor vehicle in-transport (i.e., refers to objects such as a dead body, animal carcass, construction cones or barrels, an unattached trailer, a bicycle without a rider or downed tree limbs or power lines.). For objects that have become separated from a motor vehicle in-transport, use attribute **73 (Objects Fell from Motor Vehicle In-Transport)**.

**15 (Non-Motorist on Personal Conveyance)** is used for pedestrians using personal conveyances. A personal conveyance is a device, other than a transport device, used by a pedestrian for personal mobility assistance or recreation. These devices can be motorized or human powered, but not propelled by pedaling.

## Inclusions:

- 1) Rideable toys
  - Roller Skates, in-line skates
  - Skateboards
  - Skates
  - Baby carriage
  - Scooters

## - Toy Wagons

- 2) Motorized rideable toys
  - Motorized skateboard
  - Motorized toy car

- 3) Devices for personal mobility assistance

- Segway-style devices
- Motorized and non-motorized wheelchair
- Handicapped scooters

**Exclusions:**

- Golf cart

- Low Speed Vehicles (LSVs)
- Go-carts
- Minibike
- "Pocket" motorcycles
- Motor scooters
- Moped

**14 (Parked Motor Vehicle)** is used when the impact occurred between a motor vehicle in-transport and a motor vehicle neither on a roadway nor in motion. A vehicle stopped off the roadway, its door open over a roadway, is not in-transport.

**45 (Working Motor Vehicle)** is used to indicate the motor vehicle contacted was in the act of performing construction, maintenance or utility work related to the trafficway when it became an involved unit. This "work" may be located within open or closed portions of the trafficway and motor vehicles performing these activities can be within or outside the trafficway boundaries. This code does not include private construction/maintenance vehicles, or vehicles such as garbage trucks, delivery trucks, taxis, emergency vehicles, tow trucks, etc.

**Examples:**

1. Asphalt/steam roller working in a highway construction zone paving the roadway or flattening dirt.
2. State highway maintenance crew painting lane lines on the road, mowing grass on the roadside or median, repairing potholes, removing debris from the roadway, etc.
3. Utility truck or a "cherry picker", performing maintenance on power lines along the roadway or maintaining a traffic signal.
4. A private excavating company contracted by the State digging the foundation for a new overpass.
5. A state, county, or privately owned snow plow, plowing ice/snow as part of a highway maintenance activity.
6. Street sweeper sweeping the street.
7. A vehicle in a mobile work convoy displaying arrow boards or other signaling devices warning motorists of the work activity.
8. A law enforcement vehicle which is participating strictly in a stationary construction or mobile maintenance activity as a traffic slowing, control, signaling or calming influence.

**FARS SPECIAL INSTRUCTION:**

**NOTE:** Before 2004, this code was called **Transport Device Used as Equipment**. It included other working activities in addition to construction, maintenance and utility work on trafficways. From 2004 forward, code "45" excludes working activities other than highway construction, maintenance or utility vehicles (e.g., garbage truck picking up trash, mail/delivery trucks while making deliveries, personal vehicles plowing snow, etc. These are considered motor vehicles In-transport). Use Related Factors-Vehicle Level code **42 (Other Working Vehicle [Not Construction, Maintenance, Utility, Police, Fire, or EMS Vehicle])** to identify these vehicles.

A question may arise when a police, fire or emergency medical vehicle is struck on the roadway while at the scene of a crash, at a traffic stop, or as traffic control. The question becomes, "has its function changed from being a motor vehicle in-transport to a working vehicle?" The answer is "no." Treat these situations as a motor vehicle in-transport striking another motor vehicle in-transport. Use Related Factors-Vehicle Level code **41 (Police, Fire, or EMS Vehicle Working at the Scene of an Emergency or Performing Other Traffic Control Activities)** to identify that this vehicle was struck while performing these work activities.

**73 (Object Fell From Motor Vehicle In-Transport)** is used when a motor vehicle in- transport impacts a non-fixed object at rest that is known to have been the cargo or part of another motor vehicle in-transport.

### **Collision with Fixed Object:**

The attributes **58 (Ground), 33 (Curb), 34 (Ditch) and 35 (Embankment)** are grouped under the Collision with Fixed Object subset because they are intended to be harmful events in the crash (i.e. – they are associated with an impact that produces injury or damage).

***When coding these events there must be fields on the PAR or verbiage in the narrative such as "struck", "hit", "impacted", etc. that identify these as harmful.***

***For cases where the indication of the harmful event came from the narrative, there may not be a corresponding indication of damage in any PAR field. In these instances code the harmful event as stated in the narrative and include the corresponding attribute under Areas of Impact.***

If there is no indication of damage from contact with the fixed object ***in fields on the PAR and the narrative language does not identify it as a harmful event*** (e.g., "came to rest on the embankment" or "drove through" or "drove across" the ditch and/or the embankment, or "drove over" the curb do not code 33 (Curb), 34 (Ditch) or 35 (Embankment) in the Sequence of Events.

### **Guidelines for PAR Combination Attributes**

***If there is no clarification in the case materials, default to the first attribute listed in the combination. For example, if a PAR attribute identifies "Earth Embankment/Rockcut /Ditch", code "Embankment" unless the narrative clearly indicates one of the other attributes (e.g. "rockcut" or "ditch").***

**17 (Boulder)** is a rock of sufficient mass that when struck by a motor vehicle moves very little and remains basically intact.

**19 (Building)** is used when the vehicle impacts a roofed and walled structure built for permanent use. The type of construction material used is not of interest, nor is the use of the building.

**58 (Ground)** is used when the impact is with an earthen or paved surface off of the roadway.  
**58 (Ground)** is not to be entered when the harmful event is **01 (Rollover/Overturn)**.

**20 (Impact Attenuator/Crash Cushion)** is a device for controlling the absorption of energy released during vehicle collision (crash cushion). Its most common application involves the protection of fixed roadside objects such as bridge piers, elevated gores at exit ramps, etc. Examples include barrels filled with water or sand, and plastic collapsible structures.

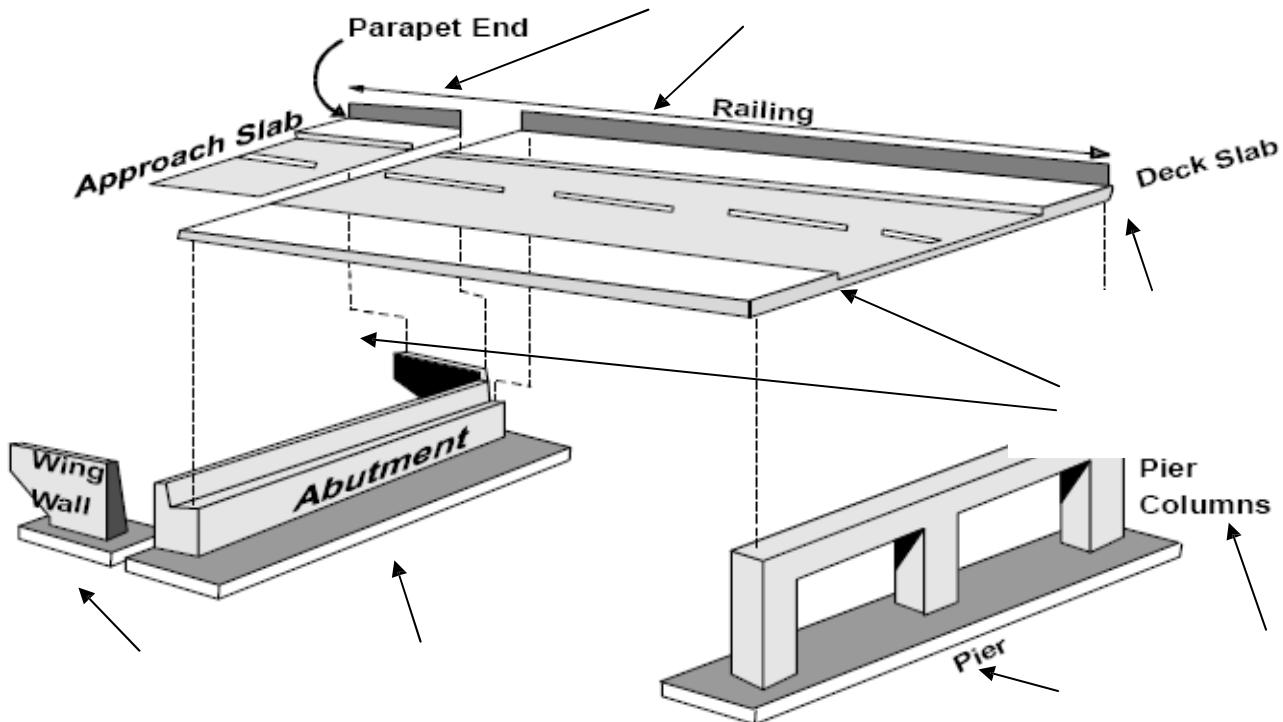
**50 (Bridge Overhead Structure)** is used when striking the bottom of a bridge while traveling on a trafficway underneath it.

**21 (Bridge Pier or Support)** is a square or round column of stone, concrete, brick, steel or wood for supporting a bridge between abutments. This attribute includes the bridge abutments which are supporting the ends of a bridge. Abutments are generally designed for retaining or supporting the embankment under bridge ends and composed of stone, concrete, brick or wood (includes the wing-walls).

**23 (Bridge Rail [Includes Parapet])** is a wooden, brick, stone, concrete or metal fence-like structure which runs along the outermost edge of the roadway or sidewalk on the bridge or a rail constructed along the top of a parapet. Balustrade is often used synonymously with parapet.

- Bridges do not need to support another roadway. It may be an overpass for a train or even for a viaduct (water conduit).

## BRIDGE COMPONENTS



**24 (Guardrail Face)** is a low barrier that has the primary longitudinal structure composed of metal (plates, mesh, box beam, etc.). A guardrail is differentiated from **25 (Concrete Traffic Barrier)** by the material making up the greatest part of the longitudinal portion of the structure. In the case of guardrails, this is metal whereas in concrete barriers this is concrete (including concrete rails). If the crash report does not differentiate between guardrail face and end, default to guardrail face.

Guardrails, which serve as bridge rails, should be coded as **23 (Bridge Rail [Includes Parapet])**.

**52 (Guardrail End)** is coded if a vehicle strikes the end of a guardrail. Guardrails can have a separate flat or rounded piece of metal attached to the end of an expanse of guardrail face.

**25 (Concrete Traffic Barrier)** refers to the longitudinal traffic barriers constructed of concrete. This includes all temporary concrete barriers regardless of location (i.e., temporary Jersey Barrier on a bridge being used to control traffic during bridge repair/construction). Concrete walls (vertical side surfaces) do not apply here; see **39 (Wall)**.

**57 (Cable Barrier)** refers to a flexible barrier system which uses several cables typically supported by steel posts. These barriers are designed to help lessen impact or keep vehicles within the confines of the road.

**26 (Other Traffic Barrier)** is used for all other longitudinal barriers such as wood or rock and unknown barrier composition type.

**59 (Traffic Sign Support)** is used when the post supporting a traffic sign, or the sign itself, is hit by a motor vehicle in-transport. This includes mile marker posts and signs above the trafficway.

**46 (Traffic Signal Support)** is used when the post supporting a traffic signal, or the signal itself, is hit by a motor vehicle in-transport.

**30 (Utility Pole/Light Support)** refers to supports for highway lighting systems, not including other private lighting systems (e.g., parking lot lights). **30 (Utility Pole/Light Support)** is used for electrical, telephone, cable & other utility pole-type supports.

**31 (Other Post, Other Pole or Other Supports)** is used for posts other than highway signs. (e.g., reflectors on poles along side of roadway, parking meters, flag poles, etc.). For mail box posts, use **53 (Mail Box)**.

**32 (Culvert)** is a man-made drain or channel crossing under a road, sidewalk, etc.

**33 (Curb)** is a concrete or asphalt structure that borders the roadway. It provides drainage control and pavement edge delineation. The face of the curb may be sloped or vertical. Ensure that the PAR provides some indication that damage has occurred when a vehicle strikes a curb. ***This attribute includes collisions with curbing that forms raised islands,***

**medians, or separators.** For example, if the report identifies the vehicle struck/collided with a traffic island, channelizing island, raised median or separator use 33 (Curb) not 43 (Other Fixed Object).

**34 (Ditch)** includes any man-made structure for drainage purposes. A ditch ends where a culvert begins and resumes on the opposite side of the culvert. Reference to a “ditchbank”, “embankment of the ditch”, or “ditch embankment” should be coded under **34 (Ditch)**.

**35 (Embankment)** is a raised structure to hold back water, to carry a roadway or the result of excavation or washout (including erosion) which may be faced with earth (or rock, stone or concrete). A **35 (Embankment)** can usually be differentiated from a **39 (Wall)** by its incline whereas a wall is usually vertical. However, there are exceptions to this; such as a retaining wall that may be inclined or a vertical embankment that is caused by a natural event such as a washout.

In crashes involving a field approach or crossing, if in doubt about when to use **32 (Culvert)**, **34 (Ditch)** or **35 (Embankment)** use the following criteria:

- a. Use **34 (Ditch)** if the driver would not have been able to recover from the ditch even if there had been no field approach (crossing).
- b. Use **35 (Embankment)** if the driver would have been able to recover from the ditch, but struck the field approach (crossing) prior to doing so.
- c. Use **35 (Embankment)** if it is not known whether or not the driver would have been able to recover from the ditch and a field approach (crossing) is involved.
- d. Use **32 (Culvert)** if it is specifically indicated that the vehicle struck a culvert in the field approach.

**38 (Fence)** includes the fence posts. A Fence can be made of wood, chain link, stone, etc

**39 (Wall)** is a primarily vertical structure composed of concrete, metal, timber or stone which is not part of a building or a fence but typically is used for retaining earth, abating noise, and separating areas (but not for containment as in the primary function of a fence). Also included as a **39 (Wall)** are headwalls (or endwalls) that are sometimes provided on culvert ends principally to protect the sides of the embankment around the culvert opening against erosion. This does not include wing-walls, which are attached to ends of bridge abutments and extend back at an angle from the roadway. Wingwalls should be coded as **21 (Bridge Pier or Support)**.

**40 (Fire Hydrant)** refers to the roadside device used by fire departments to provide water for fighting fires. Usually made of steel, these devices are also referred to as fire plugs or fire stand pipes in some areas.

**41 (Shrubbery)** refers to vegetation which is usually of a woody multi-stemmed variety and in most instances is low growing rather than tall. May also be called bushes. Some common examples are boxwood, hawthorn and mountain laurel.

**42 (Tree [Standing Only])** is used when a vehicle strikes a standing tree. This includes impacts from overhanging branches or tree stumps. If a vehicle strikes a tree lying in the roadway, use **18 (Other Object [Not Fixed])**. If a tree falls on a vehicle as it is passing by, use **16 (Thrown or Falling Object)**.

**48 (Snow Bank)** is used when snowfall and/or road plowing creates essentially fixed barriers of snow/ice which are not snow-covered earth or rock embankments.

**53 (Mail Box)** refers to a private residence mail/newspaper box including the post. A cluster of private mailboxes is included in this attribute. This element does not include U.S. Mailbox, which are typically blue and are for general public use. Code a U.S. Mailbox as **43 (Other Fixed Object)**.

**43 (Other Fixed Object)** is used when the object is fixed (considered a permanent structure) and is not described by any of the other fixed object attributes. ***This attribute excludes collisions with curbing that forms raised islands, medians, or separators (See also 33 (Curb).)***

Examples:

- Bus shelters
- Pedestrian walkways
- Toll booths
- Guy wires supporting utility poles
- U. S. Mailbox for public use

Other examples would include property damage to standing crops, yards and other vegetation (excluding: **41 (Shrubbery)**, **42 (Tree [Standing Only])**, and **58 (Ground)**) if noted on the crash report.

**99 (Unknown)** is used when police indicate unknown.

Consistency Checks:

	IF	THEN
(1Z0N)	SEQUENCE OF EVENTS for this vehicle should not include more than one occurrence of 01. Please see SEQUENCE OF EVENTS remarks for 01 (Rollover/Overtur) to confirm coding.	
(1Z1N)	SEQUENCE OF EVENTS for this vehicle should not equal 01, 67 consecutively or 67, 01 consecutively.	
(1Z1P)	any SEQUENCE OF EVENTS equals 66,	ROADWAY GRADE should equal 6 for this vehicle.

	IF	THEN
(1Z2P)	any SEQUENCE OF EVENTS equals 01, and (BODY TYPE equals 01-79, 82, 90-99, or any RELATED FACTORS-VEHICLE LEVEL equals 30),	ROLLOVER must equal 1, 2, 9.
(2Z0F)	any SEQUENCE OF EVENTS equals 12, 14, 45, 54, 55,	NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.
(4Z0P)	SEQUENCE OF EVENTS equals 02,	FIRE OCCURRENCE for this vehicle must equal 1.
(4Z1P)	UNIT TYPE equals 1 and FIRE OCCURRENCE equals 1,	at least one SEQUENCE OF EVENTS must equal 02.
(5Z0F)	SEQUENCE OF EVENTS equals 08,	at least one person must have PERSON TYPE equal to 05, 10.
(671F)	the only harmful event in the SEQUENCE OF EVENTS for this vehicle equals 02 or 04,	CRITICAL EVENT – PRECRASH (EVENT) must equal 98.
(6Z0F)	SEQUENCE OF EVENTS equals 09,	at least one person must have PERSON TYPE equal to 06, 07.
(7Z0F)	any SEQUENCE OF EVENTS equals 05, 06,	at least one occupant of this vehicle (PERSON TYPES 01, 02, 09) must have INJURY SEVERITY equal to 1-5, or blank. the corresponding event in that row must not equal 12 or 55.
(8L8Q)	AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19 in the CRASH EVENTS,	AREAS OF IMPACT (THIS VEHICLE) must equal 18 or 19 in that row.
(8L8R)	the CRASH EVENTS event equals 54,	RELATED FACTORS-CRASH LEVEL must equal 14.
(8L8S)	AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19 in the CRASH EVENTS and the corresponding event in that row equals 14, 45 or 54,	there must exist at least one event in the CRASH EVENTS where AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19 and the corresponding event in that row equals 14, 45 or 54.
(8L8T)	RELATED FACTORS-CRASH LEVEL equals 14,	RELATED FACTORS-CRASH LEVEL must equal 15.
(8L8U)	AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19 in the CRASH EVENTS and the corresponding event in that row equals 08, 09, 15, 49,	there must exist at least one event in the CRASH EVENTS where AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19, and the corresponding event in that row equals 08-10, 15, 18 or 49.
(8L8V)	RELATED FACTORS-CRASH LEVEL equals 15,	

	IF	THEN
(8L8X)	AREAS OF IMPACT (THIS VEHICLE) equals 18,	there should be a previous event involving that vehicle where the CRASH EVENTS event equals 60.
(8L9P)	<b>BODY TYPE does not equal 80-83, 88-91, and the</b> CRASH EVENTS event equals 54, and the corresponding AREAS OF IMPACT (THIS VEHICLE) equals 19 in that row,	there should be a previous event with CRASH EVENTS event equal to 18 or 73 involving that vehicle.
(8Z0F)	any SEQUENCE OF EVENTS equals 15,	at least one Person Level (Not a MV Occupant) form must have a PERSON TYPE code of 08.
(9B9P)	any SEQUENCE OF EVENTS equals 55,	there must be at least one other vehicle with UNIT TYPE equal to 1.
(A041)	<b>CRASH MONTH equals 05-09,</b>	<b>SEQUENCE OF EVENTS, FIRST HARMFUL EVENT, MOST HARMFUL EVENT should not equal 48.</b>
(A230)	SEQUENCE OF EVENTS equals 10,	ROADWAY FUNCTION CLASS should not equal 01, 11.
(A520)	SEQUENCE OF EVENTS equals 10,	TRAFFIC CONTROL DEVICE should not equal 01-09, 20-29, 40-50, 98.
(A521)	any SEQUENCE OF EVENTS equals 46,	SPEED LIMIT should equal 05-50, 98 or 99 for this vehicle.
(A495)	TRAFFICWAY DESCRIPTION equals 0,	the <u>first event</u> in SEQUENCES OF EVENTS for this vehicle should not equal 63, 64, 69 or 71.
(AL1P)	SEQUENCE OF EVENTS equals 51, 62, 70,	VEHICLE TRAILING must not equal 0.
(AL2P)	SEQUENCE OF EVENTS equals 45,	WORK ZONE should equal 1-4.
(AL5P)	If UNIT TYPE equals 1,	at least one event in the SEQUENCE OF EVENTS must equal the MOST HARMFUL EVENT.
(AL6P)	MOST HARMFUL EVENT equals , and UNIT TYPE equals 1,	at least one event in the SEQUENCE OF EVENTS must equal .
(AL8P)	SEQUENCE OF EVENTS equals 51, 70,	JACKKNIFE must equal 2, 3.
(AM1P)	FIRST HARMFUL EVENT equals 54 <b>or 73</b> , or SEQUENCE OF EVENTS equals 54, <b>73</b> for any vehicle,	one RELATED FACTORS-CRASH LEVEL must equal 14.
(AM2P)	any SEQUENCE OF EVENTS equals 25 or 57,	TRAFFICWAY DESCRIPTION should equal 3, 6.
(BZ40)	CRITICAL EVENT - PRECRASH (EVENT) equals 01,	at least one SEQUENCE OF EVENTS must equal 61 for this vehicle.

	IF	THEN
(BZ50)	CRITICAL EVENT - PRECRASH (EVENT) equals 12, and PRE-IMPACT LOCATION is not equal to 5,	at least one SEQUENCE OF EVENTS must equal 64 for this vehicle.
(BZ60)	CRITICAL EVENT - PRECRASH (EVENT) equals 13, and PRE-IMPACT LOCATION is not equal to 5,	at least one SEQUENCE OF EVENTS must equal 63 for this vehicle.
(BZ70)	CRITICAL EVENT - PRECRASH (EVENT) equals 14,	at least one SEQUENCE OF EVENTS must equal 71 for this vehicle.
(BZ90)	CRASH TYPE equals 01-05, and PRE-IMPACT LOCATION is not equal to 5,	at least one SEQUENCE OF EVENTS prior to the first harmful event must equal 63.
(BZ91)	CRASH TYPE equals 06-10, and PRE-IMPACT LOCATION is not equal to 5,	at least one SEQUENCE OF EVENTS prior to the first harmful event must equal 64.
(PB00)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 110-910,	at least one SEQUENCE OF EVENTS for the striking vehicle must equal 08 or 15.
(PB02)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLE</b> equals 111-980,	at least one SEQUENCE OF EVENTS for the striking vehicle must equal 09.
(V74P)	UNIT TYPE equals 1, and ROLLOVER equals 1, 2, 9, or LOCATION OF ROLLOVER equals 1-7, 9,	at least one SEQUENCE OF EVENTS must equal 01 for this vehicle.
(V750)	UNDERRIDE/OVERRIDE equals 1-3,	FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 12, 55.
(V760)	UNDERRIDE/OVERRIDE equals 4-6,	FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 14, 45.
(V770)	UNDERRIDE/OVERRIDE equals 7,	at least one SEQUENCE OF EVENTS (for this vehicle) must equal 12, 55.
(V780)	UNDERRIDE/OVERRIDE equals 8,	at least one SEQUENCE OF EVENTS (for this vehicle) must equal 14, 45.
(V990)	any SEQUENCE OF EVENTS equals 61,	CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE should not equal 00.
(VH70)	UNIT TYPE equals 2-4,	elements V15, V24, V31 must all be left blank.
(VH83)	the only harmful SEQUENCE OF EVENTS for this vehicle equals 04- <b>06</b> ,	DAMAGED AREAS should equal 15.
(VH84)	the only harmful SEQUENCE OF EVENTS for this vehicle equals 01-03, 16, 44, 51, 72,	DAMAGED AREAS should not equal 15.

## **MOST HARMFUL EVENT**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.M\_HARM; parkwork.PM\_HARM

**ELEMENT VALUES:**

**Non-Collision Most Harmful Events:**

- 1 Rollover/Overtur
- 2 Fire/Explosion
- 3 Immersion or Partial Immersion
- 4 Gas Inhalation
- 51 Jackknife (harmful to this vehicle)
- 06 Injured in Vehicle (Non-Collision)
- 44 Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)
- 07 Other Non-Collision
- 16 Thrown or Falling Object
- 72 Cargo/Equipment Loss or Shift (harmful to this vehicle)
- 05 Fell/Jumped from Vehicle

**Collision with Motor Vehicle In-Transport:**

- 12 Motor Vehicle In-Transport
- 54 Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport
- 55 Motor Vehicle In Motion Outside the Trafficway

**Collision with Object Not Fixed:**

- 8 Pedestrian
- 9 Pedalcyclist
- 10 Railway Vehicle
- 11 Live Animal
- 49 Ridden Animal or Animal Drawn Conveyance
- 18 Other Object (Not Fixed)
- 15 Non-Motorist on Personal Conveyance
- 14 Parked Motor Vehicle
- 45 Working Motor Vehicle
- 73 Object Fell From Motor Vehicle In-Transport

**Collision with Fixed Object:**

- 17 Boulder
- 19 Building
- 58 Ground
- 20 Impact Attenuator/Crash Cushion
- 50 Bridge Overhead Structure

21 Bridge Pier or Support  
 23 Bridge Rail (Includes Parapet)  
 24 Guardrail Face  
 52 Guardrail End  
 25 Concrete Traffic Barrier  
 57 Cable Barrier  
 26 Other Traffic Barrier  
 59 Traffic Sign Support  
 46 Traffic Signal Support  
 30 Utility Pole/Light Support  
 31 Other Post, Other Pole or Other Supports  
 32 Culvert  
 33 Curb  
 34 Ditch  
 35 Embankment  
 38 Fence  
 39 Wall  
 40 Fire Hydrant  
 41 Shrubbery  
 42 Tree (Standing Only)  
 48 Snow Bank  
 53 Mail Box  
 43 Other Fixed Object  
 99 Unknown

**Definition:** This element identifies the event that resulted in the most severe injury or, if no injury, the greatest property damage involving this motor vehicle.

**Remarks:**

Must be the major event **FOR THIS VEHICLE**, even if different from the FIRST HARMFUL EVENT.

**Code for each vehicle. May be different for each vehicle.**

**Code using the following hierarchy:**

**(A) FATALITIES take precedence over INJURIES.**

1. If this vehicle is involved in more than one event which causes fatality to its own occupants or to non-motorists, choose the event which causes the greatest number of fatalities to occupants of this vehicle or to non-motorists (not occupants of other vehicles).
2. If this vehicle is involved in more than one event that causes fatality to its own occupants or to non-motorists; and if there are an equal number of fatalities in each such event, choose the fatal event that is worst with respect to other injuries and property damage.

3. At last resort, choose the fatal event that occurred first, time-wise.

**(B) INJURIES take precedence over PROPERTY DAMAGE.**

1. If the vehicle is not involved in events that cause fatality to its occupants or to non-motorist, choose the event that produces the worst injury.
2. If in doubt, choose the event with the greatest number of injuries.
3. If in doubt, choose the event that occurred first, time-wise.

**(C) If only PROPERTY DAMAGE results for this vehicle:**

1. Choose the event causing the most damage.
2. If in doubt, choose the event that happened first, time-wise.

Non-Collision events involving motorcycles and vehicles with a “load”:

Non-Collision events may occur before or after a collision event. They should not be coded as a separate event if they occur as part of a collision event.

Examples:

- A motorcycle strikes a deer, overturns and the rider becomes separated from the vehicle. Code the collision event, not the non-collision “Rollover/Overtur” and “Vehicle Occupant Fell from Vehicle” that occur as part of the collision event.
- One tractor/trailer rear-ends another tractor/trailer. The impact pushes the lead vehicle’s load into the back of the tractor cab with part falling onto the roadway. Code the collision event, not the non-collision “cargo-loss or shift” that occurred as part of the collision event.

**1 (Rollover/Overtur)** is used when a motor vehicle rotates (rollover) at least one quarter turn onto its side or end. For motorcycles, laying the motorcycle down on its side is sufficient to code **01 (Rollover/Overtur)** as a harmful event if damage or injury is produced, even though the data element Rollover is not applicable to motorcycles. **58 (Ground)** is not to be entered when the harmful event is **01 (Rollover/Overtur)**.

If there is a **01 (Rollover/Overtur)** that begins in another location but involves a ditch or embankment in the case (e.g., “rolled through the ditch”, “rolled down the embankment”, “came to rest against the embankment”), then the rule applies where if there is no damage associated with an impact with the fixed object during the rollover, it is not included in the Crash Events. If there is indication that damage resulted from an impact with the fixed object, it is included in the Crash Events. This follows the same logic as striking a tree or another vehicle during an overturn.

**Note:** For medium/heavy trucks with attached trailers by fixed linkage, when either the power unit or the trailer rolls over, the entire vehicle will be considered a rollover.

**GES SPECIAL INSTRUCTION:**

For articulated light vehicles, that are not commercial do not code a **Rollover/Overtur**n if only the trailer portion of the combination overturns.

**2 (Fire/Explosion)** is used for a vehicle fire or explosion that occurs during the crash sequence or as a result of the crash.

As it pertains to the occurrence of **02 (Fire/Explosion)**, the crash circumstances are not considered stabilized until the threat of damage to this vehicle, or injury consequences to this vehicle's occupants, has ceased. Therefore, the crash sequence is not considered stabilized until all occupants have exited the vehicle and the scene has been declared safe by police or other authority. Fires that occur at a later time to vehicles abandoned at the scene (e.g., in open fields, on hillsides, etc.) or to vehicles removed from the scene to another location (tow yard, curbside, etc.) are not considered part of the crash sequence.

**3 (Immersion or Partial Immersion)** is used when an in-transport motor vehicle enters a body of water and results in injury or damage. This code would also be used if the vehicle came to rest in water and the depth cannot be ascertained from case materials. NOTE: In immersion fatalities the injury to the person may be noted as "drowning".

**4 (Gas Inhalation)** includes injury or death as a result of toxic fumes, such as carbon monoxide fumes leaking from a motor vehicle in-transport.

**51 (Jackknife [harmful to this vehicle])** applies to a condition that occurs to an articulated vehicle, (any vehicle with a trailing unit(s) connected by a hitch; e.g., truck tractor or single-unit truck with one or more trailers, articulated bus, car pulling a boat on a trailer, etc.) while in motion. The condition reflects a loss of control of the vehicle by the driver in which the trailer(s) yaws from its normal straight-line path behind the power unit, striking the power unit, causing damage to the power unit or trailer. Jackknife should only be coded as a harmful event if there is clear indication of damage to the jackknifed vehicle or injury to its occupants caused by the jackknife.

**06 (Injured in Vehicle [Non-Collision])** is used when an occupant is injured during an unstabilized situation without a collision, excluding cargo/equipment loss or shift. Examples: Driver slams on brake, causing an unrestrained passenger to be injured. Driver makes a sharp turn causing driver to strike head on side window, knocking driver unconscious.

**44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.])** is used when the pavement surface irregularity is on a roadway. If the impact is with a surface irregularity (e.g. ruts, potholes) not on a roadway use the **58 (Ground)**.

**07 (Other Non-Collision).** Non-collision not captured in the listed non-collision attributes.

Example:

Damage to the vehicle produced by its own dislodged vehicle parts (including hood flying up and contacting the windshield).

**16 (Thrown or Falling Object)** is used when any object (1) is thrown (intentionally or unintentionally) and impacts an in-transport vehicle, or (2) falls onto, into, or in the path of an in-transport motor vehicle. If a tree limb falls from a tree and is contacted by a car, enter **16 (Thrown or Falling Object)**. If a person maliciously throws an object off an overpass into traffic below, enter **16 (Thrown or Falling Object)**. This excludes contacts made by loads or objects set in-motion by a motor vehicle (see **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)**).

**72 (Cargo/Equipment Loss or Shift [harmful to this vehicle])** refers specifically to the loss or shift of items carried on or in a motor vehicle or its trailing unit, and not to the vehicle or trailing unit, itself. This attribute is only used when the injury- or damage-producing event in the crash is the loss or shift of cargo in/on a vehicle causing damage to that vehicle, its cargo, or injury to its occupants. This attribute should never be used to refer to a “collision” event (see **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)**).

Example:

A pickup truck brakes rapidly to avoid a collision. This causes a piece of lumber in the pickup bed to smash through the rear window.

**05 (Fell/Jumped from Vehicle)** is used when an occupant of this vehicle falls or jumps (not suicide) from the vehicle causing injury. For example, an occupant of a motor vehicle in-transport leans against the car door, it opens and the occupant falls out; or a person riding on a vehicle’s exterior (hood, roof, running board, etc.) falls or jumps, and is injured by the fall. If an occupant falls or jumps from a vehicle and is struck by that vehicle, use this attribute.

**12 (Motor Vehicle In-Transport)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact within the trafficway boundaries. This attribute would also apply for a not in-transport vehicle struck by an in-transport vehicle. **For example, if the most harmful event for a motor vehicle in-transport is an impact with hits a parked vehicle, its most harmful event is 14 (Parked Motor Vehicle) and if it's the only or the most harmful event for the parked vehicle, the parked vehicle's most harmful event is 12 (Motor Vehicle In-Transport).**

**54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact by something set-in-motion by one of the vehicles. In these circumstances, both vehicles should have this attribute in their Sequence of Events. In crashes involving harmful events caused by objects set-in-motion by a Motor Vehicle in-transport, remember that a vehicle’s load is considered part of the vehicle.

Examples:

1. If cargo falls from a truck (in-transport) and strikes another motor vehicle in-transport, this is treated as a two-vehicle crash. Therefore, the proper code for both vehicles is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)**.
2. If cargo falls from a truck (in-transport) and strikes another vehicle that is not in-transport, this is also treated as a two-vehicle crash; however in this example, the proper attribute is **14 (Parked Motor Vehicle)** or **45 (Working Motor Vehicle)** depending on which type of not in-transport vehicle was contacted by the load.
3. If cargo falls from a truck (in-transport) and strikes a pedestrian, the proper attribute would be **08 (Pedestrian)**.

**55 (Motor Vehicle In Motion Outside the Trafficway)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact outside the trafficway boundaries in a motor vehicle traffic crash.

Example:

A vehicle loses control attempting to turn into a gas station and strikes another vehicle pulling away from the pump in the station lot.

**8 (Pedestrian)** is used for all those not on a personal conveyance. A person pushing a vehicle should be coded **08 (Pedestrian)**. A person being carried by another person should also be considered a **08 (Pedestrian)**.

**9 (Pedalcyclist)** is used for any person on a non-motorized other road vehicle propelled by pedaling. Examples include a bicycle, tricycle, unicycle or pedal car.

**10 (Railway Vehicle)** is any land vehicle that is (1) designed primarily for, or in use for, moving persons or property from one place to another on rails and (2) not in use on a land way other than a railway.

Inclusions:

— Street car on private way

Exclusions:

— Street car operating on trafficway

**11 (Live Animal)** is used for collisions with live animals (domesticated or wild) that are not themselves being used as transportation or to draw a wagon, cart or other transport device (see ANSI D16.1). Default to **11 (Live Animal)** if it cannot be determined if the struck animal is alive, dead or if it was being ridden or drawing a transport device.

Use **49 (Ridden Animal or Animal-Drawn Conveyance)** for ridden animals and animals drawing transport devices. See **18 (Other Object [Not Fixed])** for an animal carcass lying in the roadway.

**18 (Other Object [Not Fixed])** is used when a motor vehicle in-transport strikes a non-fixed object that is known NOT to have been the cargo or part of another motor vehicle in-transport or when it is UNKNOWN whether the object was the cargo or part of another motor vehicle in-transport (i.e., refers to objects such as a dead body, animal carcass, construction cones or

barrels, an unattached trailer, a bicycle without a rider or downed tree limbs or power lines.). For objects that have become separated from a motor vehicle in-transport, use attribute **73 (Objects Fell from Motor Vehicle In-Transport)**.

**15 (Non-Motorist on Personal Conveyance)** is used for pedestrians using personal conveyances. A personal conveyance is a device, other than a transport device, used by a pedestrian for personal mobility assistance or recreation. These devices can be motorized or human powered, but not propelled by pedaling.

Inclusions:

- 1) Rideable toys
  - Roller Skates, in-line skates
  - Skateboards
  - Skates
  - Baby carriage
  - Scooters
  - Toy Wagons
- 2) Motorized rideable toys
  - Motorized skateboard
  - Motorized toy car

- 3) Devices for personal mobility assistance
  - Segway-style devices
  - Motorized and non-motorized wheelchair
  - Handicapped scooters

Exclusions:

- Golf cart
- Low Speed Vehicles (LSVs)
- Go-carts
- Minibike
- "Pocket" motorcycles
- Motor scooters
- Moped

**14 (Parked Motor Vehicle)** is used when the impact occurred between a motor vehicle in-transport and a motor vehicle neither on a roadway nor in motion. A vehicle stopped off the roadway, its door open over a roadway, is not in-transport. *This attribute would also apply for a parked vehicle struck by another parked vehicle. For example, if a motor vehicle in-transport hits a parked vehicle and pushes it into a second parked vehicle (the only event for the second parked vehicle), the most harmful event for the second parked vehicle is 14 (Parked Motor Vehicle ).*

**45 (Working Motor Vehicle)** is used to indicate the motor vehicle contacted was in the act of performing construction, maintenance or utility work related to the trafficway when it became an involved unit. This "work" may be located within open or closed portions of the trafficway and motor vehicles performing these activities can be within or outside the trafficway boundaries. This code does not include private construction/maintenance vehicles, or vehicles such as garbage trucks, delivery trucks, taxis, emergency vehicles, tow trucks, etc.

Examples:

1. Asphalt/steam roller working in a highway construction zone paving the roadway or flattening dirt.
2. State highway maintenance crew painting lane lines on the road, mowing grass on the roadside or median, repairing potholes, removing debris from the roadway, etc.
3. Utility truck or a "cherry picker", performing maintenance on power lines along the roadway or maintaining a traffic signal.

4. A private excavating company contracted by the State digging the foundation for a new overpass.
5. A state, county, or privately owned snow plow, plowing ice/snow as part of a highway maintenance activity.
6. Street sweeper sweeping the street.
7. A vehicle in a mobile work convoy displaying arrow boards or other signaling devices warning motorists of the work activity.
8. A law enforcement vehicle which is participating strictly in a stationary construction or mobile maintenance activity as a traffic slowing, control, signaling or calming influence.

**NOTE:** Before 2004, this code was called **Transport Device Used as Equipment**. It included other working activities in addition to construction, maintenance and utility work on trafficways. From 2004 forward, code "45" excludes working activities other than highway construction, maintenance or utility vehicles (e.g., garbage truck picking up trash, mail/delivery trucks while making deliveries, personal vehicles plowing snow, etc. These are considered motor vehicles In-transport). Use Related Factors-Vehicle Level code **42 (Other Working Vehicle [Not Construction, Maintenance, Utility, Police, Fire, or EMS Vehicle])** to identify these vehicles.

A question may arise when a police, fire or emergency medical vehicle is struck on the roadway while at the scene of a crash, at a traffic stop, or as traffic control. The question becomes, "has its function changed from being a motor vehicle in-transport to a working vehicle?" The answer is "no." Treat these situations as a motor vehicle in-transport striking another motor vehicle in-transport. Use Related Factors-Vehicle Level code **41 (Police, Fire, or EMS Vehicle Working at the Scene of an Emergency or Performing Other Traffic Control Activities)** to identify that this vehicle was struck while performing these work activities.

**73 (Object Fell From Motor Vehicle In-Transport)** is used when a motor vehicle in- transport impacts a non-fixed object at rest that is known to have been the cargo or part of another motor vehicle in-transport.

### **Collision with Fixed Object**

The attributes **58 (Ground), 33 (Curb), 34 (Ditch) and 35 (Embankment)** are grouped under the Collision with Fixed Object subset because they are intended to be harmful events in the crash (i.e. – they are associated with an impact that produces injury or damage).

***When coding these events there must be fields on the PAR or verbiage in the narrative such as "struck", "hit", "impacted", etc. that identify these as harmful.***

***For cases where the indication of the harmful event came from the narrative, there may not be a corresponding indication of damage in any PAR field. In these instances code the harmful event as stated in the narrative and include the corresponding attribute under Areas of Impact.***

If there is no indication of damage from contact with the fixed object ***in fields on the PAR and the narrative language does not identify it as a harmful event*** (e.g., "came to rest on the embankment" or "drove through" or "drove across" ***the ditch and/or the embankment, or drove over the curb do not code 33 (Curb), 34 (Ditch) or 35 (Embankment) in the Sequence of Events.***

**Guidelines for PAR Combination Attributes**

***If there is no clarification in the case materials, default to the first attribute listed in the combination. For example, if a PAR attribute identifies "Earth Embankment/Rockcut /Ditch", code "Embankment" unless the narrative clearly indicates one of the other attributes (e.g. "rockcut" or "ditch").***

**17 (Boulder)** is a rock of sufficient mass that when struck by a motor vehicle moves very little and remains basically intact. It may be considered as a fixed object.

**19 (Building)** is used when the vehicle impacts a roofed and walled structure built for permanent use. The type of construction material used is not of interest, nor is the use of the building.

**58 (Ground)** is used when the impact is with an earthen or paved surface off of the roadway. **58 (Ground)** is not to be entered when the harmful event is **01 (Rollover/Overtake)**.

**20 (Impact Attenuator/Crash Cushion)** is a device for controlling the absorption of energy released during vehicle collision (crash cushion). Its most common application involves the protection of fixed roadside objects such as bridge piers, elevated gores at exit ramps, etc. Examples include barrels filled with water or sand, and plastic collapsible structures.

**50 (Bridge Overhead Structure)** is used when striking the bottom of a bridge while traveling on a trafficway underneath it.

**21 (Bridge Pier or Support)** is a square or round column of stone, concrete, brick, steel or wood for supporting a bridge between abutments. This attribute includes the bridge abutments which are supporting the ends of a bridge. Abutments are generally designed for retaining or supporting the embankment under bridge ends and composed of stone, concrete, brick or wood (includes the wing-walls).

**23 (Bridge Rail [Includes Parapet])** is a wooden, brick, stone, concrete or metal fence-like structure which runs along the outermost edge of the roadway or sidewalk on the bridge or a rail constructed along the top of a parapet. Balustrade is often used synonymously with parapet.

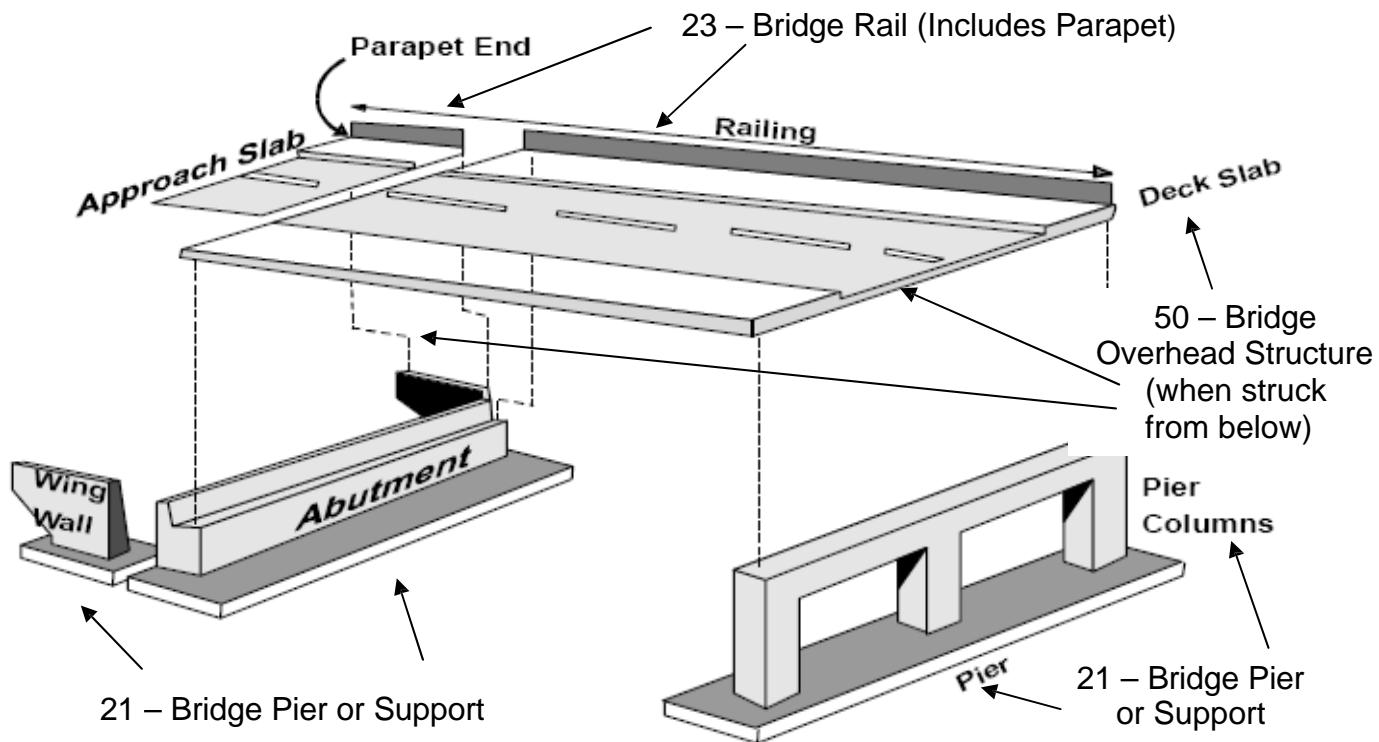
- Bridges do not need to support another roadway. It may be an overpass for a train or even for a viaduct (water conduit).

**24 (Guardrail Face)** is a low barrier that has the primary longitudinal structure composed of metal (plates, mesh, box beam, etc.). A guardrail is differentiated from **25 (Concrete Traffic**

**Barrier)** by the material making up the greatest part of the longitudinal portion of the structure. In the case of guardrails, this is metal whereas in concrete barriers this is concrete (including concrete rails). If the crash report does not differentiate between guardrail face and end, default to guardrail face.

Guardrails, which serve as bridge rails, should be coded as **23 (Bridge Rails [Includes Parapet])**.

## BRIDGE COMPONENTS



**52 (Guardrail End)** is coded if a vehicle strikes the end of a guardrail. Guardrails can have a separate flat or rounded piece of metal attached to the end of an expanse of guardrail face.

**25 (Concrete Traffic Barrier)** refers to the longitudinal traffic barriers constructed of concrete. This includes all temporary concrete barriers regardless of location (i.e., temporary Jersey Barrier on a bridge being used to control traffic during bridge repair/construction). Concrete walls (vertical side surfaces) do not apply here; see **39 (Wall)**.

**57 (Cable Barrier)** refers to a flexible barrier system which uses several cables typically supported by steel posts. These barriers are designed to help lessen impact or keep vehicles within the confines of the road.

**26 (Other Traffic Barrier)** is used for all other longitudinal barriers such as wood or rock and unknown barrier composition type.

**59 (Traffic Sign Support)** is used when the post supporting a traffic sign, or the sign itself, is hit by a motor vehicle in-transport. This includes mile marker posts and signs above the trafficway.

**46 (Traffic Signal Support)** is used when the post supporting a traffic signal, or the signal itself, is hit by a motor vehicle in-transport.

**30 (Utility Pole/Light Support)** refers to supports for highway lighting systems, not including other private lighting systems (e.g., parking lot lights). **30 (Utility Pole/Light Support)** is used for electrical, telephone, cable & other utility pole-type supports.

**31 (Other Post, Other Pole or Other Supports)** is used for posts other than highway signs. (e.g., reflectors on poles along side of roadway, parking meters, flag poles, etc.). For mail box posts, use **53 (Mail Box)**.

**32 (Culvert)** is a man-made drain or channel crossing under a road, sidewalk, etc.

**33 (Curb)** is a concrete or asphalt structure that borders the roadway. It provides drainage control and pavement edge delineation. The face of the curb may be sloped or vertical. Ensure that the PAR provides some indication that damage has occurred when a vehicle strikes a curb. **This attribute includes collisions with curbing that forms raised islands, medians, or separators. For example, if the report identifies the vehicle struck/collided with a traffic island, channelizing island, raised median or separator use 33 (Curb) not 43 (Other Fixed Object).**

**34 (Ditch)** includes any man-made structure for drainage purposes. A ditch ends where a culvert begins and resumes on the opposite side of the culvert. Reference to a “ditchbank”, “embankment of the ditch”, or “ditch embankment” should be coded under **34 (Ditch)**.

**35 (Embankment)** is a raised structure to hold back water, to carry a roadway or the result of excavation or washout (including erosion) which may be faced with earth (or rock, stone or concrete). A **35 (Embankment)** can usually be differentiated from a **39 (Wall)** by its incline whereas a wall is usually vertical. However, there are exceptions to this; such as a retaining wall that may be inclined or a vertical embankment that is caused by a natural event such as a washout.

In crashes involving a field approach or crossing, if in doubt about when to use **32 (Culvert)**, **34 (Ditch)** or **35 (Embankment)** use the following criteria:

- a. Use **34 (Ditch)** if the driver would not have been able to recover from the ditch even if there had been no field approach (crossing).
- b. Use **35 (Embankment)** if the driver would have been able to recover from the ditch, but struck the field approach (crossing) prior to doing so.
- c. Use **35 (Embankment)** if it is not known whether or not the driver would have been able to recover from the ditch and a field approach (crossing) is involved.

d. Use **32 (Culvert)** if it is specifically indicated that the vehicle struck a culvert in the field approach.

**38 (Fence)** includes the fence posts. A Fence can be made of wood, chain link, stone, etc.

**39 (Wall)** is a primarily vertical structure composed of concrete, metal, timber or stone which is not part of a building or a fence but typically is used for retaining earth, abating noise, and separating areas (but not for containment as in the primary function of a fence). Also included as a **39 (Wall)** are headwalls (or endwalls) that are sometimes provided on culvert ends principally to protect the sides of the embankment around the culvert opening against erosion. This does not include wing-walls, which are attached to ends of bridge abutments and extend back at an angle from the roadway. Wingwalls should be coded as **21 (Bridge Pier or Support)**.

**40 (Fire Hydrant)** refers to the roadside device used by fire departments to provide water for fighting fires. Usually made of steel, these devices are also referred to as fire plugs or fire stand pipes in some areas.

**41 (Shrubbery)** refers to vegetation which is usually of a woody multi-stemmed variety and in most instances is low growing rather than tall. May also be called bushes. Some common examples are boxwood, hawthorn and mountain laurel.

**42 (Tree [Standing Only])** is used when a vehicle strikes a standing tree. This includes impacts from overhanging branches or tree stumps. If a vehicle strikes a tree lying in the roadway, use **18 (Other Object [Not Fixed])**. If a tree falls on a vehicle as it is passing by, use **16 (Thrown or Falling Object)**.

**48 (Snow Bank)** is used when snowfall and/or road plowing creates essentially fixed barriers of snow/ice which are not snow-covered earth or rock embankments.

**53 (Mail Box)** refers to a private residence mail/newspaper box including the post. A cluster of private mailboxes is included in this attribute. This element does not include U.S. Mailbox, which are typically blue and are for general public use. Code a U.S. Mailbox as **43 (Other Fixed Object)**.

**43 (Other Fixed Object)** is used when the object is fixed (considered a permanent structure) and is not described by any of the other fixed object attributes. **This attribute excludes collisions with curbing that forms raised islands, medians, or separators (See also 33 (Curb).)**

Examples:

- Bus shelters
- Pedestrian walkways
- Toll booths
- Guy wires supporting utility poles
- U. S. Mailbox for public use

Other examples would include property damage to standing crops, yards and other vegetation (excluding: **41 (Shrubbery)**, **42 (Tree [Standing Only])**, and **58 (Ground)**) if noted on the crash report.

**99 (Unknown)** is used when police indicate unknown.

**Consistency Checks:**

IF	THEN
<b>(A041) CRASH MONTH equals 05-09,</b>	<b>SEQUENCE OF EVENTS, FIRST HARMFUL EVENT, MOST HARMFUL EVENT</b> should not equal 48.
<b>(AL3P) UNIT TYPE equals 2-4,</b>	<b>MOST HARMFUL EVENT</b> must not equal 54 for this vehicle.
<b>(AL4P) there is one and only one parked vehicle (UNIT TYPE equals 2 or 3) in the crash,</b>	<b>MOST HARMFUL EVENT for the parked vehicle</b> must not equal 14.
<b>(AL5P) UNIT TYPE equals 1,</b>	at least one event in the SEQUENCE OF EVENTS must equal the MOST HARMFUL EVENT.
<b>(AL6P) MOST HARMFUL EVENT equals , and UNIT TYPE equals 1,</b>	at least one event in the SEQUENCE OF EVENTS must equal .
<b>(AL7P) UNIT TYPE equals 2-4,</b>	<b>MOST HARMFUL EVENT</b> should not equal 04-07, 16, 51, 72.

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## **RELATED FACTORS – VEHICLE LEVEL**

**FORMAT:** 2 numeric occurring 2 times

**SAS NAME:** Vehicle.VEH\_SC1; Vehicle.VEH\_SC2. parkwork.PVEH\_SC1, parkwork.PVEH\_SC2

**ELEMENT VALUES:**

**00** None

**Special Vehicle Flags:**

- 30** ***Multi-Wheeled*** Motorcycle Conversion
- \***32** Vehicle Registration for Handicapped
- 33** Vehicle Being Pushed by Non-Motorist
- 35** Reconstructed/Altered Vehicle
- \***37** Transporting Children To/From Head Start/Day Care
- 39** Highway Construction, Maintenance or Utility Vehicle, In-Transport (Inside or Outside Work Zone)
- 40** Highway Incident Response Vehicle
- 41** Police, Fire, or EMS Vehicle Working at the Scene of an Emergency or Performing Other Traffic Control Activities
- 42** Other Working Vehicle (Not Construction, Maintenance, Utility, Police, Fire, or EMS Vehicle)
- 44** Adaptive Equipment
- 99** Unknown

**\*FARS ONLY ATTRIBUTES**

**Remarks:**

<b>Related Factors</b>		<b>Examples</b>
<b>00</b>	<b>None</b>	
	<b><u>Special Vehicle Flags:</u></b>	
<b>30</b>	<b><i>Multi-Wheeled</i></b> Motorcycle Conversion	Identifies motorcycles that were converted to a <b><i>multi-wheeled</i></b> configuration from a 2-wheeled OEM motorcycle. These vehicles will not have Body Type “ <b>82 (Three-Wheel Motorcycle)</b> ” available in the manufacturer’s Make/Model/ Model Year/Body Type table.

<b>Related Factors</b>		<b>Examples</b>
*32	Vehicle Registration for Handicapped	<p>Vehicle registered and/or specially equipped for the handicapped.</p> <p>This can be derived from vehicle registration.</p> <p>Excludes placards which can be moved from one vehicle to the other.</p>
33	Vehicle Being Pushed by Non-Motorist	<p>This code supports Related Factors-Crash Level code <b>17 (Vehicle Set-in-Motion by Non-Driver)</b>.</p>
35	Reconstructed/Altered Vehicle	<p>Home-made vehicle from vehicle components</p> <p>A vehicle reconstructed/altered by the owner; example: additional or enhancement performance engine chips or accessories, significant altering of suspension system (i.e., "monster trucks," "low riders").</p> <p>May have standard VIN or the State may issue a number in place of the VIN for their registration.</p>
*37	Transporting Children To/From Head Start/Day Care	<p>Not intended for children transported to daycare by family/friends in personal vehicles.</p> <p>Applies to children transported to Day Care/Head Start in vehicles arranged, operated or owned by Head Start or Day Care Program.</p>
39	Highway Construction, Maintenance or Utility Vehicle, In-Transport (Inside or Outside Work Zone)	<p>Do not use this code when the vehicle is working. Only use while the vehicle is "in-transport." For example, while moving from job site to job site.</p> <p>Private construction excluded unless you know it is performing state or local contracted highway construction, maintenance or utility work.</p> <p>Refers to readily identifiable (lights, markings) vehicle in-transport at the time of the crash, which is owned by any local, county, state or federal agency.</p>
40	Highway Incident Response Vehicle	<p>State government-owned vehicles, whose function is to drive the major highways to assist motorists with flat tires, provide gas, etc.</p> <p>Could be called: DOT Help, Good Samaritans, Courtesy Patrol, Motorist Assist Vehicle, etc.</p>

<b>Related Factors</b>		<b>Examples</b>
<b>41</b>	Police, Fire, or EMS Vehicle Working at the Scene of an Emergency or Performing Other Traffic Control Activities	Police car, fire truck or ambulance at the scene of a crash. Fire truck at the scene of a fire. Police car leading or trailing a convoy or funeral. Police car blocking the entrance to a parade route. Police car at a check point.
<b>42</b>	Other Working Vehicle (Not Construction, Maintenance, Utility, Police, Fire, or EMS Vehicle)	Garbage truck picking up trash. Personal pickup with a snow blade plowing. UPS or postal vehicle stopped in the roadway while making a delivery.
<b>44</b>	Adaptive Equipment	Special adaptive equipment for handicapped operator(s) of this vehicle. Examples of adaptive equipment are: Extended brake/gas pedals, special steering apparatus, hand brakes or accelerator, etc.
<b>99</b>	Unknown	

#### \*FARS ONLY ATTRIBUTES

**Definition:** This element identifies factors related to this vehicle expressed by the investigating officer.

**Remarks:**

Care must be used to distinguish vehicle conditions from Related Factors-Driver Level. Driver irresponsibility will be explicitly stated in police report for coding as a Related Factors-Driver Level. Vehicle conditions include manufacturer defects, driver's changes that are defective, and maintenance conditions. Related Factors-Driver Level **24 (Operating Without Required Equipment)** can be coded in conjunction with vehicle level conditions.

Attributes **30-44** are flags used to identify this vehicle as one with special circumstances. They do not necessarily imply that this circumstance caused the crash.

**Use of 00 (None)**

Use when no factors are noted; zero-fill all fields. **00 (None)** implies that the investigating officer indicated "no factors." Also, use **00 (None)** to complete remaining fields when you will be recording less than two related factors. DO NOT leave any remaining fields blank.

### Use of 99 (Unknown)

Use when **99 (Unknown)** is reported for the vehicle condition in the Police Accident Report itself and none of the special circumstances exist. In these circumstances, nine-fill all fields. If **99 (Unknown)** is used for any field, ALL fields must be **99 (Unknown)**. DO NOT leave any remaining fields blank. **Also use this attribute for Hit and Run vehicles and drivers when no factors are identified or reported by the officer for this vehicle or driver.**

### Consistency Checks:

IF	THEN
(1G0P) one RELATED FACTORS-VEHICLE LEVEL equals 99,	both factors must equal 99.
(1Z2P) any SEQUENCE OF EVENTS equals 01, and (BODY TYPE equals 01-79, 82, 90-99, or any RELATED FACTORS-VEHICLE LEVEL equals 30),	ROLLOVER must equal 1, 2, 9.
(2G0P) either RELATED FACTORS-VEHICLE LEVEL equals blanks,	the other factor must also equal blanks.
(3G0P) the first RELATED FACTORS-VEHICLE LEVEL equals 00,	the other factor must also equal 00.
(4G0P) A RELATED FACTORS-VEHICLE LEVEL between <b>30</b> and 44 can be used only once per vehicle form.	
(5A0P) BODY TYPE equals 80, 81, 83, 88, 89, and any RELATED FACTORS - VEHICLE LEVEL does not equal 30,	ROLLOVER must equal 0.
(6G0Q) any RELATED FACTORS - VEHICLE LEVEL equals 30,	BODY TYPE must equal 80 for this vehicle.
(9C1P) UNIT TYPE equals 4,	RELATED FACTORS-VEHICLE LEVEL must not equal 39.
(AS0P) RELATED FACTORS-VEHICLE LEVEL equals 32,	REGISTERED VEHICLE OWNER must not equal 0.
(VH06) BODY TYPE equals 82,	RELATED FACTORS-VEHICLE LEVEL must not equal 30.
(V031) RELATED FACTORS-VEHICLE LEVEL equals 39,	BODY TYPE should not equal 01, 12, 13, 32, 33, 42, 50-52, 55, 58,59, 65, 73, 80-83, 88-92.
(V032) RELATED FACTORS-VEHICLE LEVEL equals 40,	BODY TYPE should not equal 01, 12, 13, 32, 33, 42, 50-52, 55, 58,59, 60-67, 71-73, 78, 80-83, 88-93.

**Consistency Checks FARS ONLY:**

	<b>IF</b>	<b>THEN</b>
(6G0P)	RELATED FACTORS-VEHICLE LEVEL equals 32,	REGISTRATION STATE must not equal 00, 92.
(V590)	RELATED FACTORS-VEHICLE LEVEL equals 32,	REGISTERED VEHICLE OWNER should equal 1-3.
(V592)	RELATED FACTORS-VEHICLE LEVEL equals 37,	REGISTRATION STATE should not equal 00, 92.
(V593)	RELATED FACTORS-VEHICLE LEVEL equals 37,	REGISTERED VEHICLE OWNER should not equal 0.

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## **FIRE OCCURRENCE**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.FIRE\_EXP, Person.FIRE\_EXP, Parkwork.PFIRE

**ELEMENT VALUES:**

- |   |                    |
|---|--------------------|
| 0 | No or Not Reported |
| 1 | Yes                |

**Definition:** This element identifies whether or not a fire in any way related to the crash occurred in this vehicle.

**Remarks:**

For the purposes of this element, “vehicle” is defined to mean the power unit plus any and all trailing units associated with the power unit.

If it cannot be determined that a fire occurred in the vehicle during the crash, use **0 (No or Not Reported)**.

**1 (Yes)** is used when the case materials indicate that this vehicle sustained fire damage.

In a multi-vehicle crash where a fire occurs, only the vehicles sustaining fire damage should be coded as **1 (Yes)**.

Fires that begin in a vehicle before the first impact may be counted. If fire damage is produced, **02 (Fire/Explosion)** would be the first harmful event.

If the Most Harmful Event for this vehicle is **02 (Fire/Explosion)**, or a fire in the vehicle is produced by damage in the crash, use **1 (Yes)**. The involved vehicles may be at rest for a short period of time.

If the vehicles are at rest long enough to raise a question about the fire’s relationship to the crash’s damage-producing events, use **0 (No or Not Reported)**.

**Examples for Fire Occurrence:**

<u>Examples</u>	<u>Code</u>
1. Car (V#1) strikes tank truck (V#2) in rear, the car catches on fire with no fire occurring for the tank truck.	V#1 – 1 (Yes) V#2 – 0 (No or <b>Not Reported</b> )
2. Vehicle #1 catches fire, causing driver to strike vehicle #2.	V#1 – 1 (Yes) V#2 – 0 (No or <b>Not Reported</b> )
3. Vehicle #1 catches fire, causing driver to stop vehicle in roadway and all occupants exit vehicle. Two minutes later, a second car (V#2) rear-ends the stopped car and its driver is killed from collision. (Attributes reflect the second crash.)	V#1 – 0 (No or <b>Not Reported</b> ) V#2 – 0 (No or <b>Not Reported</b> )

**Consistency Checks:**

IF	THEN
(4Z0P) SEQUENCE OF EVENTS equals 02,	FIRE OCCURRENCE for this vehicle must equal 1.
(4Z1P) UNIT TYPE equals 1, and FIRE OCCURRENCE equals 1,	at least one SEQUENCE OF EVENTS must equal 02.
(540F) FIRST HARMFUL EVENT equals 02,	the vehicle involved in the first harmful event must have FIRE OCCURRENCE equal to 1.

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## **VEHICLE NUMBER – DRIVER LEVEL**

**FORMAT:** 3 numeric

**SAS NAME:** Vehicle.Veh\_No

**ELEMENT VALUES:**

000-999

**Definition:** This element identifies the vehicle number associated with this driver.

**Remarks:**

Must be coded on an original submission

System-Generated (MDE System Only)

See Vehicle Number-Vehicle Level for assignments numbers.

FOR DRIVERLESS, PARKED/STOPPED OFF ROADWAY/WORKING MOTOR VEHICLES AND MOTOR VEHICLES IN MOTION OUTSIDE THE TRAFFICWAY, ONLY CODE DRIVER PRESENCE (D4) AND RELATED FACTORS-DRIVER LEVEL (D24).

**Consistency Check:**

(CSI2) There must be exactly one Driver Level form corresponding to each Vehicle Level form.

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## **DRIVER PRESENCE**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.Dr\_Pres

**ELEMENT VALUES:**

- 0 No Driver Present/Not Applicable
- 1 Yes
- 9 Unknown

**Definition:** This element identifies whether or not a driver was present in this vehicle at the onset of the unstabilized situation.

**Remarks:**

**0 (No Driver Present/Not Applicable)** is used when there is no person who was controlling this vehicle at the time of the crash.

Also, use **0 (No Driver Present/Not Applicable)** when Unit Type for this vehicle is not a motor vehicle in-transport (Unit Type attributes “2, 3, 4”). Use this attribute regardless of the presence of an occupant in the driver’s seat.

**1 (Yes)** is used when there is a person who is physically controlling the vehicle at the onset of the unstabilized situation for this crash. Do not use this attribute for a child sitting in the driver’s seat unless the case materials indicate the child was in control of the vehicle. Hit-and-run drivers are included in this attribute. A driver under medical distress would be included. This attribute includes when it is known there was a driver but it is unknown which occupant was the driver at the time of the crash.

**9 (Unknown)** is used when it is unknown if there was a driver present in the vehicle at the time of the crash.

If coded **0 (No Driver Present/Not Applicable)** or **9 (Unknown)**, all other elements on the Driver Level must be left blank. A Person Level - Occupant of a Motor Vehicle form with Person Type equal to **01 (Driver of a Motor Vehicle In-Transport)** must not be submitted for that vehicle.

If coded **0 (No Driver Present/Not Applicable)** or **9 (Unknown)**, Related Factors-Driver Level are coded “00”.

**Consistency Checks:**

IF	THEN
(1H0F) DRIVER PRESENCE equals 0, 9,	PREVIOUS SPEEDING CONVICTIONS must be blank.
(1H1F) DRIVER PRESENCE equals 0, 9,	DRIVER'S LICENSE STATE must be blank.
(1H2F) DRIVER PRESENCE equals 0, 9,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE must be blank.
(1H3F) DRIVER PRESENCE equals 0, 9,	NON-CDL LICENSE STATUS and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must be blank.
(1H4F) DRIVER PRESENCE equals 0, 9,	COMPLIANCE WITH LICENSE RESTRICTIONS must be blank.
(1H6F) DRIVER PRESENCE equals 0, 9,	VIOLATIONS CHARGED must be blank.
(1H7F) DRIVER PRESENCE equals 0, 9,	PREVIOUS RECORDED CRASHES must be blank.
(1H8F) DRIVER PRESENCE equals 0, 9,	PREVIOUS RECORDED SUSPENSIONS must be blank.
(1H9F) DRIVER PRESENCE equals 0, 9,	PREVIOUS DWI CONVICTIONS must be blank.
(1HAF) DRIVER PRESENCE equals 0, 9,	PREVIOUS OTHER HARMFUL MV CONVICTIONS must be blank.
(1HBF) DRIVER PRESENCE equals 0, 9,	DATE OF LAST CRASH, SUSPENSION, CONVICTION must be blank.
(1HCF) DRIVER PRESENCE equals 0, 9,	DATE OF FIRST CRASH, SUSPENSION, CONVICTION must be blank.
(1HDF) DRIVER PRESENCE equals 0, 9,	DRIVER HEIGHT (feet and inches) must equal blank.
(1HEF) DRIVER PRESENCE equals 0, 9,	DRIVER WEIGHT must equal blank.
(1HFF) DRIVER PRESENCE equals 0, 9,	SPEEDING RELATED must be blank.
(1HJF) DRIVER'S VISION OBSCURED BY equals 95,	DRIVER PRESENCE must equal 0 or 9.
(2F0F) NUMBER OF OCCUPANTS equals 00,	DRIVER PRESENCE must equal 0.
(2H0F) DRIVER PRESENCE equals 0, 9,	RELATED FACTORS-DRIVER LEVEL must not equal 04, 08, 12, 13, 15, 16, 19, 52, 53, 58, 59, 73, 74, 77-88.
(2H1F) UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,	DRIVER'S VISION OBSCURED BY must equal 95.
(3BAP) UNIT TYPE equals 1, and DRIVER PRESENCE equals 0,	CRASH TYPE must equal 00, 04, 09, 15, 32, 42, 48, 52, 62, 66, 74, 84, 90, 93 or 98.

	IF	THEN
(3BGP)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,	DRIVER PRESENCE must equal 0 or 9.
(3H0F)	DRIVER PRESENCE equals 1,	there must be one and only one Person Level form for that vehicle with PERSON TYPE equal to 01, or there must be no Person Level form for that vehicle with PERSON TYPE equal to 01 and at least two Person Level forms for that vehicle with PERSON TYPE equal to 09. there must not be a Person Level form for that vehicle with PERSON TYPE equal to 01.
(4H0F)	DRIVER PRESENCE equals 0, 9,	DRIVER PRESENCE must not equal 1, 9.
(5L0F)	RELATED FACTORS-DRIVER LEVEL equals 20,	DRIVER PRESENCE must not equal 0 or 9.
(5L1F)	RELATED FACTORS-DRIVER LEVEL equals 04, 08, 12, 13, 15, 16, 19, 52, 53, 58, 59, 73, 74, 77-88,	DRIVER'S ZIP CODE must be blank. CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) must be blank.
(6H0P)	DRIVER PRESENCE equals 0, 9,	DRIVER PRESENCE must equal 1.
(6H1P)	DRIVER PRESENCE equals 0, 9,	DRIVER PRESENCE must equal 0 or 9.
(7B0F)	JACKKNIFE equals 2, 3,	DRIVER PRESENCE must equal 0.
(9A3P)	UNIT TYPE equals 2-4,	DRIVER MANEUVERED TO AVOID must only equal 95.
(9C4P)	UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,	DRIVER PRESENCE must equal 0 or 9.
(9C5P)	DRIVER MANEUVERED TO AVOID equals 95,	one RELATED FACTORS-DRIVER LEVEL should equal 20.
(A080)	DRIVER PRESENCE equals 0, and FIRST HARMFUL EVENT equals 12, and NUMBER OF VEHICLE FORMS SUBMITTED equals 002,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.
(AZ20)	UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,	COMPLIANCE WITH LICENSE ENDORSEMENTS must be blank.
(BJ0P)	DRIVER PRESENCE equals 0, 9,	DRIVER DISTRACTED BY must equal 16.
(BJ1P)	UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,	DRIVER DISTRACTED BY must not equal 16 or blank.
(BJ2P)	UNIT TYPE equals 1, and DRIVER PRESENCE equals 1,	DRIVER PRESENCE must equal 0 or 9.
(BJ3P)	UNIT TYPE equals 1, and DRIVER DISTRACTED BY equals 16,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS must be blank.
(BN0P)	DRIVER PRESENCE equals 0, 9,	

	IF	THEN
(CB0P)	REGISTERED VEHICLE OWNER equals 6,	DRIVER PRESENCE must equal 0.
(D330)	DRIVER PRESENCE equals 0, and REGISTRATION STATE is not equal to 00, 92, 99,	REGISTERED VEHICLE OWNER should equal 3-6.
(FD0F)	DRIVER PRESENCE is blank, case status is flawed.	
(PB30)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 220,	at least one DRIVER PRESENCE must equal 0 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 220.
(PB60)	PERSON TYPE equals 05 or 08, and DRIVER PRESENCE equals 0 for the motor vehicle which strikes the non-motorist	
(PB61)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 220,	DRIVER PRESENCE should equal 0 for the motor vehicle striking the non-motorist.

**Consistency Checks (GES Only):**

	IF	THEN
(1HGF)	DRIVER PRESENCE equals 0 or 9,	DRIVER LICENSE NUMBER must equal blank.

## **DRIVER'S LICENSE STATE**

### **(FARS Only)**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.L\_STATE

**ELEMENT VALUES:**

01	Alabama	33	New Hampshire
02	Alaska	34	New Jersey
03	American Samoa	35	New Mexico
04	Arizona	36	New York
05	Arkansas	37	North Carolina
06	California	38	North Dakota
08	Colorado	39	Ohio
09	Connecticut	40	Oklahoma
10	Delaware	41	Oregon
11	District of Columbia	42	Pennsylvania
12	Florida	43	Puerto Rico
13	Georgia	44	Rhode Island
14	Guam	45	South Carolina
15	Hawaii	46	South Dakota
16	Idaho	47	Tennessee
17	Illinois	48	Texas
18	Indiana	49	Utah
19	Iowa	50	Vermont
20	Kansas	51	Virginia
21	Kentucky	52	Virgin Islands
22	Louisiana	53	Washington
23	Maine	54	West Virginia
24	Maryland	55	Wisconsin
25	Massachusetts	56	Wyoming
26	Michigan	93	Indian Nation
27	Minnesota	94	U.S. Government
28	Mississippi	95	Canada
29	Missouri	96	Mexico
30	Montana	97	Other Foreign Country
31	Nebraska	98	Not Reported
32	Nevada	99	Unknown

**Definition:** This element identifies the state of issue for the license held by this driver.

**Remarks:**

If no license is required or driver is not licensed, use the resident State of the driver. U.S. Government is used to indicate the license was issued by the U.S. Government, such as military or State Department Foreign Service.

**98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported".

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(1H1F)	DRIVER PRESENCE equals 0, 9,	DRIVER'S LICENSE STATE must be blank.
(1I0P)	DRIVER'S LICENSE STATE equals 99,	NON-CDL LICENSE STATUS must not equal 0-4, 6, and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must not equal 00-08.
(1K0P)	DRIVER'S LICENSE STATE equals 99,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE must not equal 0-3.
(2I0P)	DRIVER'S LICENSE STATE equals 99,	COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 0-3.
(3I1P)	DRIVER'S LICENSE STATE equals 99,	all driver history counters PREVIOUS RECORDED CRASHES must equal 99.
(3I2P)	DRIVER'S LICENSE STATE equals 99,	all driver history counters PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS must equal 99.
(3I3P)	DRIVER'S LICENSE STATE equals 99,	all driver history counters PREVIOUS DWI CONVICTIONS must equal 99.
(3I4P)	DRIVER'S LICENSE STATE equals 99,	all driver history counters PREVIOUS SPEEDING CONVICTIONS must equal 99.

	IF	THEN
(3I5P)	DRIVER'S LICENSE STATE equals 99,	all driver history counters PREVIOUS OTHER HARMFUL MV CONVICTIONS must equal 99.
(BI0P)	DRIVER'S LICENSE STATE equals 99,	COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1, 2.
(CJ00)	PREVIOUS RECORDED CRASHES equals 98,	DRIVER'S LICENSE STATE should equal 09, 13, <b>28</b> , 30, 35, 49.
(D010)	DRIVER'S LICENSE STATE equals 96, 97,	PREVIOUS RECORDED CRASHES should equal 99.
(D020)	DRIVER'S LICENSE STATE equals 96, 97,	PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS should equal 99.
(D030)	DRIVER'S LICENSE STATE equals 96, 97,	PREVIOUS DWI CONVICTIONS should equal 99.
(D040)	DRIVER'S LICENSE STATE equals 96, 97,	PREVIOUS SPEEDING CONVICTIONS should equal 99.
(D050)	DRIVER'S LICENSE STATE equals 96, 97,	PREVIOUS OTHER HARMFUL MV CONVICTIONS should equal 99.
(D180)	DRIVER LICENSE STATE equals 95-97,	DRIVER ZIP CODE should not equal 99999.
(D320)	DRIVER'S LICENSE STATE does not equal 93-99,	DRIVER'S ZIP CODE should equal 9999 or be a valid zip code for DRIVER'S LICENSE STATE.
(D480)	DRIVER'S LICENSE STATE equals 09, 13, <b>28</b> , 30, 35, 49,	PREVIOUS RECORDED CRASHES should equal 98.
(D710)	DRIVER'S LICENSE STATE equals 02, 04, 09, 15, 20, 21, 30, 38, 40, 56,	NON-CDL LICENSE TYPE should not equal 2.

**Consistency Checks (FARS Only):**

	IF	THEN
(U410)	UNLIKELY: DRIVER'S LICENSE STATE equals 98.	

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## **DRIVER'S ZIP CODE**

**FORMAT:** 5 numeric

**SAS NAME:** Vehicle.DR\_Zip

**ELEMENT VALUES:**

00000 Not a Resident of U.S. or Territories  
 nnnnn Actual Value  
 99999 Unknown

**Definition:** This element identifies the zip code of this driver's area of residence.

**Remarks:**

Code only the first five digits of nine-digit zip codes.

**00000 (Not Resident of US or Territories)** is used when the address found on the PAR indicates that the driver resides at an address which has not been assigned a ZIP code by the US Post Office.

**99999 (Unknown)** is used whenever the Zip code cannot be determined. For example, use this attribute when no information is provided on the PAR about the driver (e.g., hit-and-run). In addition, use this code if the driver, licensed or not, has no permanent address. For example, the driver could be living out of his/her vehicle (camper, motor home, etc.) or the driver could be "homeless."

If a ZIP CODE is listed on the PAR but it is not a valid number use attribute **99999 (Unknown)**.

**FARS SPECIAL INSTRUCTION:**

Use the following guidelines to resolve discrepancies between the Police Accident Report (PAR) and Driver License File:

- If the street address is the same on both sources but the zip codes differ, use the zip code from the License File.
- If you have internet access available, you may use the web site <https://tools.usps.com/go/ZipLookupAction!input.action> to confirm you have the correct address.
- If the street addresses on the two sources differ, then use the zip code for the address reported on the PAR.
- If you have both a residence address and a different mailing address (e.g., a P.O. Box) use the zip code for the residence address.

If the PAR indicates an address in-state and a driver's license from another state is recorded (with a different residence address), attempt to determine the most current address for the driver. If the most current address cannot be determined, use the zip code that corresponds to the address from the DRIVER'S LICENSE STATE.

**GES SPECIAL INSTRUCTION:**

For the purposes of this variable, a driver is considered to reside at the address listed on the police accident report. This address was most likely taken from the driver's license given to the police officer and/or from the licensing state's driver license file.

If the driver's address is present and the Zip code is missing or not available, then determine the correct Zip code by using the National Five Digit Zip Code & Post Office Directory.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(6H0P)	DRIVER PRESENCE equals 0, 9,	DRIVER'S ZIP CODE must be blank.
(BY0P)	DRIVER'S ZIP CODE must be a valid code, blanks, 00000 or 99999.	
(D160)	NON-CDL LICENSE STATUS does not equal 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS does not equal 99,	DRIVER'S ZIP CODE should not equal 99999.
(D180)	DRIVER LICENSE STATE equals 95-97,	DRIVER ZIP CODE should not equal 99999.
(D320)	DRIVER'S LICENSE STATE does not equal 93-99,	DRIVER'S ZIP CODE should equal 9999 or be a valid zip code for DRIVER'S LICENSE STATE.

## **NON-CDL LICENSE TYPE/STATUS**

### **(FARS Only)**

**FORMAT:** 1 numeric occurring 2 times.

**SAS NAME:** Vehicle.L\_TYPE; Vehicle.L\_STATUS

#### **ELEMENT VALUES:**

	<u>Type:</u>	<u>Status:</u>
0	Not Licensed	10 Not Licensed
1	Full Driver License	1 Suspended
2	Intermediate Driver License	2 Revoked
7	Learner's Permit	3 Expired
8	Temporary License	4 Canceled or Denied
9	Unknown License Type	6 Valid 9 Unknown License Status

**Definition:** This element identifies in two subfields the type license held by this driver and the status of the license at the time of the crash.

#### **Source:**

Official driver record and police report. Official driver records take precedence over police-reported information.

#### **Remarks:**

Prior to 1993, this element was Driver License Status and included codes "5 – Valid-Single Class" and "6 – Valid-Multiple Class."

Starting in 2004, this element was modified to capture both non-CDL license type and status to accommodate graduated driver license (GDL) programs.

This element is used to establish the driver's license type and status for all license classes except the commercial driver's license (CDL). It also captures the type and status of the NON-CDL driving privilege for drivers with CDLs.

The NON-CDL License Type/Status is coded for all drivers, including drivers with a CDL.

Use the "Type" field to record whether the driver has a full driver's license, intermediate driver's license, learner's permit, temporary license, or is not licensed. Use the "Status" field to record if the license is valid, suspended, revoked, expired, canceled or denied.

When involved drivers are in the military, the analyst should be cautious because some States automatically (without driver application) renew drivers' licenses or extend the license until the individual is discharged. Each state analyst should be familiar with their state's policy on military personnel and code these license variables accordingly.

In addition, when out-of-state driver requests are made the analyst requesting the data should note that the driver is in the military.

**0 (Not Licensed) (for both Type and Status).** **0 (Not Licensed)** should be used only when it has been reasonably established that the driver is not licensed (anywhere). Takes precedence over all other NON-CDL License Type/Status attributes. Drivers who have a license but fail to have their license with them at the time of the crash should be coded according to the type (class) of license they possess and the validity of the license. If the police report indicates that the driver has "no license," the analyst should first determine whether this means that the person was not in possession of his/her license at the time of the crash, or that the driver is not a registered motor vehicle operator. A review of the violations cited section of the police report may yield some clues in this matter. If the person is cited for not possessing his/her license or for not having one, then code this information in variables D21 and D24, Violations Charged and Related Factors-Driver Level. If the analyst is uncertain as to whether or not the person possesses a license, then code **Unknown** should be used.

#### **NON-CDL LICENSE TYPE REMARKS:**

**1 (Full Driver License)** is used for unlimited driving privileges (with no GDL restrictions). This is based on your state's eligibility guidelines.

**7 (Learner's Permit)** and **2 (Intermediate Driver License)** are the first two stages of a tiered licensing process that allows young drivers to obtain full driver license privileges through safe driving practices. Typical restrictions include minimum age requirements, passing vision/knowledge tests, and supervision by adult driver over the age of 21. Other requirements may include limiting the number of passenger in the vehicle, occupants must wear seatbelts, zero alcohol tolerance and no at-fault crashes or convictions for a period of time.

**NOTE:** Beginning in 2004, if **7 (Learner's Permit)** or **2 (Intermediate Driver License)** has expired, code Type as **2 (Intermediate Driver License)** or **7 (Learner's Permit)** and Status as **3 (Expired)**. (Prior to 2004, an expired Learner's Permit was coded as **0 (Not Licensed)**).

**NOTE:** It is important that you know your state's Graduated Driver License restrictions. GDL program restrictions vary from state-to-state.

**2 (Intermediate Driver License)** is the second stage of obtaining a full license privilege. It is typically for drivers between the ages of 16 and 17, and does not require total supervision during daylight hours (e.g., adult supervision during the hours of midnight to 5 am). A **2 (Intermediate Driver License)** may be suspended or revoked under certain violations. Other conditions may

include conviction-free performance, seat-belt use for occupants, and some age restrictions for passengers. If any restriction is violated, this GDL restriction period can be extended.

**NOTE: 2 (Intermediate Driver License)** does not apply for states that do not have a GDL program. However, your state may have a Learner's Permit. Also, your state may not use the name "Intermediate Driver License" and may call it something else.

**NOTE: 7 (Learner's Permit)** is the first stage of obtaining a full license privilege. It is typically for drivers between 14 and 16 years of age, and typically requires total adult supervision, seat-belt use for occupants, and conviction-free performance. If any restriction is violated, this GDL restriction period can be extended.

**8 (Temporary License)** includes any type of non-permanent license issued for a period of time less than that for a permanent license (e.g., temporary license to drive within a resort area; temporary license issued to foreign nationals). Short-term permanent licenses are not temporary (e.g., license issued to elderly drivers requiring frequent re-testing).

**7 (Learner's Permit) and 2 (Intermediate Driver License)** held by young drivers awaiting a **1 (Full Driver's License)** are not to be coded **8 (Temporary License)**.

**9 (Unknown License Type)** should be used when the type of the license is unknown.

**9 (Unknown License Type)** is also used when it is unknown whether the driver had a license or not (e.g., hit-and-run).

#### **NON-CDL LICENSE STATUS REMARKS:**

**10 (Not Licensed)** should be used only when it has been reasonably established that the driver is not registered (anywhere). **0 (Not Licensed)** takes precedence over all other Non-CDL License Status attributes. Drivers who have a license but fail to have their license with them at the time of the crash should be coded according to the type (class) of license they possess and the validity of the license. If the police report indicates that the driver has "no license," the analyst should first determine whether this means that the person was not in possession of his/her license at the time of the crash, or that the driver is not a registered motor vehicle operator. A review of the violations cited section of the police report may yield some clues in this matter. If the person is cited for not possessing his/her license or for not having one, then code this information in variables D21 and D24, Violations Charged and Related Factors-Driver Level. If the analyst is uncertain as to whether or not the person possesses a license, then code **9 (Unknown)** should be used.

**1 (Suspended), 2 (Revoked) or 3 (Expired)** are used if a **1 (Full Driver License)\*** is suspended, revoked, or expired. A **2 (Intermediate Driver License)** may be **1 (Suspended)** or **2 (Revoked)** under certain violations. If **7 (Learner's Permit)** or **2 (Intermediate Driver License)** has expired, then code **3 (Expired)**.

Examples: If a **1 (Full Driver License)** is revoked or suspended but limited driving is permitted (e.g., to and from work), use the following criteria:

- a. If the crash occurs during permitted times of driving, code Non-CDL License Type as **1 (Full Driver License)** and Status as **6 (Valid)**, code Compliance With License Restrictions as **1 (Restrictions Complied With)**, and code Related Factors-Driver Level as **19 (Legally Driving on Suspended or Revoked License)**.
- b. If the crash occurs during invalid times for driving, code Non-CDL License Type as **1 (Full Driver License)** and Status as **1 (Suspended)** or **2 (Revoked)**, code Compliance With License Restrictions as **2 (Restriction Not Complied With)**, and do not use Related Factors-Driver Level as **19 (Legally Driving on Suspended or Revoked License)**.

**1 (Suspended)** takes precedence over all other License Status attributes except **0 (Not Licensed)**.

**4 (Canceled or Denied)** is used whenever the driver's official driver record indicates the driver's license\* (1) was canceled; or (2) the driver's request for license, or an extension of one, was denied.

**6 (Valid)** refers to any license held by the driver that is valid for a class of vehicle\*. If the driver is in violation of some aspect of his/her license (e.g., one of the restrictions) do not consider the license as being not valid. Record the restriction on element Compliance with License Restrictions if applicable. If the police cite the driver for the violation, then the information would be recorded under elements D21 and D24 (Violations Charged and/or Related Factors-Driver Level).

**9 (Unknown License Status)** should be used when the status of the license is unknown. **9 (Unknown License Status)** is also used when it is unknown whether the driver had a license or not (e.g., hit-and-run).

See reference table for coding elements D7 and D10, following the remarks section of element (D10) License Compliance with Class Of Vehicle.

\* **NON-CDL privilege only**

#### **IMPORTANT NOTE:**

In distinguishing license requirements from restrictions focus upon whether or not all drivers possessing the type of license are mandated to obey the requirement. If they are, then the requirement is not a restriction, but rather part of the definition of the license. Restrictions, on the other hand, are requirements specific to individual drivers.

**Consistency Checks:**

IF	THEN
(1H3F) DRIVER PRESENCE equals 0, 9,	NON-CDL LICENSE STATUS and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must be blank.
(1I0P) DRIVER'S LICENSE STATE equals 99,	NON-CDL LICENSE STATUS must not equal 0-4, 6, and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must not equal 00-08.
(5I0P) NON-CDL LICENSE STATUS equals 0,	COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3, 9.
(5I1P) NON-CDL LICENSE STATUS for this person equals 9,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should equal 99.
(6I0P) NON-CDL LICENSE STATUS equals 9, and COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,	COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3.
(7I0P) COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 19,	NON-CDL LICENSE STATUS must equal 6.
(7K0P) any VIOLATIONS CHARGED equals 71,	NON-CDL LICENSE STATUS must equal 0, 1, 2, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS must equal 01, 02, 05.
(8I0P) NON-CDL LICENSE STATUS equals 0-4, 9,	RELATED FACTORS-DRIVER LEVEL must not equal 19.
(8J0P) NON-CDL LICENSE TYPE equals 0,	NON-CDL LICENSE STATUS must equal 0.
(8J1P) NON-CDL LICENSE STATUS equals 0,	NON-CDL LICENSE TYPE must equal 0.
(D060) NON-CDL LICENSE STATUS equals 1-4, 6, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 1-8, and PERSON TYPE equals 01,	AGE should not be less than 015.
(D100) NON-CDL LICENSE STATUS equals 9,	all driver history counters PREVIOUS RECORDED CRASHES should equal 99.
(D110) NON-CDL LICENSE STATUS equals 9,	all driver history counters PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS should equal 99.
(D120) NON-CDL LICENSE STATUS equals 9,	all driver history counters PREVIOUS DWI CONVICTIONS should equal 99.

	IF	THEN
(D130)	NON-CDL LICENSE STATUS equals 9,	all driver history counters PREVIOUS SPEEDING CONVICTIONS should equal 99.
(D140)	NON-CDL LICENSE STATUS equals 9,	all driver history counters PREVIOUS OTHER HARMFUL MV CONVICTIONS should equal 99.
(D160)	NON-CDL LICENSE STATUS does not equal 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS does not equal 99,	DRIVER'S ZIP CODE should not equal 99999.
(D260)	NON-CDL LICENSE STATUS equals 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 99,	COMPLIANCE WITH LICENSE RESTRICTIONS should not equal 0.
(D340)	NON-CDL LICENSE STATUS equals 1-4, 6, 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 01-08, 99,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 0.
(D350)	VIOLATIONS CHARGED equals 71,	NON-CDL LICENSE STATUS should not equal 0, 3, 6, 9.
(D380)	NON-CDL LICENSE STATUS equals 9,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE should equal 1, 9.
(D390)	NON-CDL LICENSE STATUS equals 0,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 2, 3, 8, 9.
(D400)	NON-CDL LICENSE STATUS equals 0-4,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 3, 8, 9.
(D620)	NON-CDL LICENSE TYPE equals 7,	AGE (for the driver) should equal 014-016.
(D630)	NON-CDL LICENSE TYPE equals 2,	AGE (for the driver) should equal 015-017.
(D640)	AGE equals 014-017, and PERSON TYPE equals 01,	NON-CDL LICENSE TYPE should equal 2, 7.
(D650)	AGE equals 018-120, and PERSON TYPE equals 01, and NON-CDL LICENSE STATUS does not equal 0,	NON-CDL LICENSE TYPE should equal 1.
(D680)	NON-CDL LICENSE TYPE does not equal 0, 9,	NON-CDL LICENSE STATUS should not equal 0, 9.
(D690)	NON-CDL LICENSE TYPE equals 2, 7, and COMPLIANCE WITH LICENSE RESTRICTIONS equals 2,	RELATED FACTORS-DRIVER LEVEL should equal 73, 74.
(D700)	NON-CDL LICENSE TYPE equals 1, and COMPLIANCE WITH LICENSE RESTRICTIONS equals 2,	RELATED FACTORS-DRIVER LEVEL should equal 74.

<b>IF</b>	<b>THEN</b>
(D710) DRIVER'S LICENSE STATE equals 02, 04, 09, 15, 20, 21, 30, 38, 40, 56,	NON-CDL LICENSE TYPE should not equal 2.
(D730) RELATED FACTORS-DRIVER LEVEL equals 73,	COMPLIANCE WITH LICENSE RESTRICTIONS should equal 2, and NON-CDL LICENSE TYPE should equal 2, 7.

See the following tables for additional guidance for coding Non-CDL License Type/Status for young drivers with GDL License (**7 (Learner's Permit)** and **2 (Intermediate Driver Licenses)**) and CDL Drivers:

<u>Coding Scenarios for CDL Licenses</u>	<u>D7 Non-CDL Type</u>	<u>D7 Non- CDL Status</u>	<u>D8 CMV Status</u>	<u>D10 Comp w/ Class</u>	<u>D11 Comp. w/ Restriction</u>
1. CDL w/no endorsement valid, driving a CDL vehicle (no endorsement required). Non-CDL License Type/Status is Full License/Valid.	1	6	6	3	0
2. CDL w/hazardous material endorsement, valid driving CDL vehicle w/hazardous cargo. Non-CDL License Type/Status is Full License/Valid.	1	6	6	3	1
3. CDL w/hazardous material endorsement, valid driving non-CDL vehicle. Non-CDL License Type/Status is Full License/Valid.	1	6	6	3	0
4. CDL w/ no endorsements suspended, driving a CDL (double bottom) vehicle. Non-CDL License Type/Status is Full License/Valid.	1	6	1	2	2
5. CDL w/tanker endorsement, disqualified, driving a tanker. Non-CDL License Type/Status is Full License/Suspended.	1	1	5	2	1
6. CDL w/tanker endorsement suspended, driving a non-CDL vehicle. Non-CDL License Type/Status is Full License/Valid.	1	6	1	3	0
7. Non-CDL license driving CDL 24 passenger bus. Non-CDL License Type/Status is Full License/Valid.	1	6	0	2	2
8. Non-CDL license driving 24 passenger bus. Non-CDL License Type/Status is Full License/Suspended.	1	1	0	2	2
9. *CDL w/no endorsements valid, driving CDL vehicle (endorsement requirement unknown). Non-CDL License Type/Status is Full License/Suspended.	1	1	6	8	9
10. *CDL w/no endorsements *CDL w/tanker endorsements valid, driving non-CDL vehicle. Non-CDL License Type/Status is Full License/Suspended.	1	1	6	2	0
11. *CDL w/tanker endorsements valid, driving non-CDL vehicle. Non-CDL License Type/Status is Full License/Suspended.	1	1	6	2	0

\* possible, but unlikely situation

<u>CODING SCENARIOS FOR GRADUATED DRIVER'S LICENSING PROGRAM</u>	<u>NON- CDL TYPE</u>	<u>NON-CDL STATUS</u>	<u>COMPLIANCE WITH LICENSE RESTRICTIONS</u>	<u>RELATED FACTORS- DRIVER LEVEL</u>
1. A 16-year-old driver with a valid Intermediate License driving a vehicle during prohibited driving hours without corrective lenses.	2	6	2	73, 74
2. A 15-year-old with a valid Learner's Permit driving alone (adult supervision required).	7	6	2	73
3. A 16-year-old with a valid Intermediate License not complying with seat-belt requirement during permitted daytime driving hours.	2	6	2	73
4. A 17-year-old driver with a valid Intermediate License. The officer reported there was a 19-year-old non-family passenger, in violation of the state's GDL requirements.	2	6	2	73
5. An 18-year-old driver with an expired Learner's Permit driving with no violations of GDL restrictions.	7	3	1	00
6. A 15-year-old with a suspended Learner's Permit is driving without required prescription lenses, and is complying with all GDL restrictions.	7	1	2	74
7. A driver with a suspended Intermediate Driver's License complying with all GDL restrictions.	2	3	1	00
8. A 19-year-old with a valid Intermediate License which was extended due to prior GDL violations is driving a truck greater than 26,000 lbs. requiring a CDL during prohibited hours.	2	6	2	73
9. A driver with a valid Full Driver's License driving without required corrective lenses.	1	6	2	74

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## **COMMERCIAL MOTOR VEHICLE LICENSE STATUS** **(FARS Only)**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.CDL\_STAT

### **ELEMENT VALUES:**

- 1 No (CDL)
- 2 Suspended
- 3 Revoked
- 4 Expired
- 5 Canceled or Denied
- 6 Disqualified
- 7 Valid
- 8 Learner's Permit
- 9 Other - Not Valid
- 99 Unknown License Status

**Definition:** This element indicates the status for a driver's Commercial Driver's License (CDL) if applicable.

### **Remarks:**

This element indicates the status for a driver's Commercial Driver's License (CDL).

As of April 1, 1992, all states require a driver to have a CDL for driving a **commercial motor vehicle in excess of 26,000 pounds**; or for transporting hazardous materials in sufficient amounts to be placarded; or for transporting 16 or more passengers, including the driver.

See the table on the following page for guidance on coding this element and related driver status elements.

**05 (Disqualified)** is used for commercial drivers who have their CDL privilege taken away for violations against the federal regulations. Although similar to suspension, the reasons for "disqualification" of a CDL may differ from state suspension reasons.

**08 (Other - Not Valid)** should be used when a CDL is surrendered or not valid due to the lack of medical clearance.

**99 (Unknown License Status)** should be used when the status of the CDL license is unknown or when it is unknown whether the driver had a CDL license or not (e.g., hit-and-run).

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(1H3F)	DRIVER PRESENCE equals 0, 9,	NON-CDL LICENSE STATUS and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must be blank.
(1I0P)	DRIVER'S LICENSE STATE equals 99,	NON-CDL LICENSE STATUS must not equal 0-4, 6, and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must not 00-08.
(5I1P)	NON-CDL LICENSE STATUS for this person equals 9,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should equal 99.
(6I0P)	NON-CDL LICENSE STATUS equals 9, and COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,	COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3.
(7K0P)	any VIOLATIONS CHARGED equals 71,	NON-CDL LICENSE STATUS must equal 0, 1, 2, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS must equal 01, 02, 05.
(BN0P)	DRIVER PRESENCE equals 0, 9,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS must be blank.
(CC0P)	COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00, 99,	COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1.
(D060)	NON-CDL LICENSE STATUS equals 1-4, 6, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 1-8, and PERSON TYPE equals 01,	AGE should not be less than 015.
(D160)	NON-CDL LICENSE STATUS does not equal 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS does not equal 99,	DRIVER'S ZIP CODE should not equal 99999.
(D260)	NON-CDL LICENSE STATUS equals 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 99,	COMPLIANCE WITH LICENSE RESTRICTIONS should not equal 0.
(D270)	BODY TYPE equals 50-52, 55, 63, 66, 72, or HM1 equals 2,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.
(D280)	VEHICLE CONFIGURATION equals 05-08, 21, or HM1 equals 2,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.
(D300)	HM2 equals 2,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00 or 99.

<b>IF</b>	<b>THEN</b>
(D340) NON-CDL LICENSE STATUS equals 1-4, 6, 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 01-08, 99,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 0.
(D420) COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,	COMPLIANCE WITH CDL ENDORSEMENTS should not equal 1-3.
(D430) COMPLIANCE WITH CDL ENDORSEMENTS equals 1-3,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.
(D440) COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,	BODY TYPE should not equal 50-52, 55, 63, 66, 72, and HM2 should not equal 2.
(D450) COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,	VEHICLE CONFIGURATION should not equal 05-08, 21, and HM2 should not equal 2.
(D460) COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 99,	COMPLIANCE WITH CDL ENDORSEMENTS should equal 0, 3, 9.
(V090) HM1 equals 2,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should equal 06, 99.
(V100) HM1 equals 2, and RELATED FACTORS-DRIVER LEVEL does not equal 19,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 01, 02, 05.

<u>Coding Scenarios for CDL Licenses</u>	<u>D7 Non- CDL Type</u>	<u>D7 Non- CDL Status</u>	<u>D8 CMV Status</u>	<u>D10 Comp w/ Class</u>	<u>D11 Comp. w/ Restrict ion</u>
1. CDL w/no endorsement valid, driving a CDL vehicle (no endorsement required). Non-CDL License Type/Status is Full License/Valid.	1	6	6	3	0
2. CDL w/hazardous material endorsement, valid driving CDL vehicle w/hazardous cargo. Non-CDL License Type/Status is Full License/Valid.	1	6	6	3	1
3. CDL w/hazardous material endorsement, valid driving non-CDL vehicle. Non-CDL License Type/Status is Full License/Valid.	1	6	6	3	0
4. CDL w/ no endorsements suspended, driving a CDL (double bottom) vehicle. Non-CDL License Type/Status is Full License/Valid.	1	6	1	2	2
5. CDL w/tanker endorsement, disqualified, driving a tanker. Non-CDL License Type/Status is Full License/Suspended.	1	1	5	2	1
6. CDL w/tanker endorsement suspended, driving a non-CDL vehicle. Non-CDL License Type/Status is Full License/Valid.	1	6	1	3	0
7. Non-CDL license driving CDL 24 passenger bus. Non-CDL License Type/Status is Full License/Valid.	1	6	0	2	2
8. Non-CDL license driving 24 passenger bus. Non-CDL License Type/Status is Full License/Suspended.	1	1	0	2	2
9. *CDL w/no endorsements valid, driving CDL vehicle (endorsement requirement unknown). Non-CDL License Type/Status is Full License/Suspended.	1	1	6	8	9
10. *CDL w/no endorsements *CDL w/tanker endorsements valid, driving non-CDL vehicle. Non-CDL License Type/Status is Full License/Suspended.	1	1	6	2	0
11. *CDL w/tanker endorsements valid, driving non-CDL vehicle. Non-CDL License Type/Status is Full License/Suspended.	1	1	6	2	0

## **COMPLIANCE WITH CDL ENDORSEMENTS**

### **(FARS Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.L\_ENDORS

**ELEMENT VALUES:**

- 0     No Endorsements Required for the vehicle
- 1     Endorsement(s) Required, complied with
- 2     Endorsement(s) Required, not complied with
- 3     Endorsement(s) Required, compliance unknown
- 9     Unknown, if required

**Definition:** This element indicates whether the vehicle driven at the time of the crash requires endorsement(s) on a Commercial Driver's License (CDL) and whether this driver is complying with the CDL endorsements.

**Remarks:**

These endorsements include: double/triple bottoms, passenger vehicles with 16 passengers, tank, hazardous materials, combined tank/hazardous materials, and others. This element is to be coded independently from CDL Status. The driver is not automatically failing to comply with a CDL endorsement by not having a valid CDL.

**0 (No Endorsements Required for the vehicle)** is used when this vehicle requires no special endorsement on a CDL or requires no CDL to operate.

**1 (Endorsement(s) Required, complied with)** is used when this vehicle requires a CDL and requires a particular endorsement or set of endorsements, and the driver has a CDL and is in compliance with the specific endorsements. (Note: The status of the CDL is not used in determining if the driver has complied with the endorsement.)

**2 (Endorsement(s) Required, not complied with)** is used when this vehicle requires a CDL and particular endorsement(s) on the CDL, but the driver does not have a CDL or does not have the particular endorsement(s) required for the vehicle driven. The driver may have some other endorsement(s). (Note: The status of the CDL is not used in determining if the driver has complied with the endorsement.)

**3 (Endorsement(s) Required, compliance unknown)** is used when this vehicle requires a CDL and particular endorsement(s) on the CDL, but it is not known whether the driver was in compliance with the particular endorsement(s) or it is not known whether the driver had a CDL.

**9 (Unknown, if required)** is used when it is unknown if the vehicle requires a CDL, or when it is unknown if an endorsement is required on a CDL to operate the crash vehicle. The driver may or may not have a CDL.

**Consistency Checks:**

IF	THEN
(4S1P) BODY TYPE equals 80-83, 88, 89 and HM1 does not equal 1,	COMPLIANCE WITH CDL ENDORSEMENTS MUST equal 0.
(BI0P) DRIVER'S LICENSE STATE equals 99,	COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1, 2.
(BJ0P) DRIVER PRESENCE equals 0, 9,	COMPLIANCE WITH LICENSE ENDORSEMENTS must be blank.
(BK0P) LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 1,	COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1-3, 9.
(BL0P) COMPLIANCE WITH CDL ENDORSEMENTS equals 1, and any RELATED FACTORS- DRIVER LEVEL equals 19,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE must equal 3.
(CC0P) COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00, 99,	COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1.
(CG0P) LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0,	COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1, 3.
(D310) HM2 equals 2,	COMPLIANCE WITH CDL ENDORSEMENTS should equal 1-3.
(D410) LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0,	COMPLIANCE WITH CDL ENDORSEMENTS should not equal 1-3, 9.
(D420) COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,	COMPLIANCE WITH CDL ENDORSEMENTS should not equal 1-3.
(D430) COMPLIANCE WITH CDL ENDORSEMENTS equals 1-3,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.
(D460) COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 99,	COMPLIANCE WITH CDL ENDORSEMENTS should equal 0, 3, 9.

The table below provides guidance for coding this element for the type of license and vehicle driven in the crash:

<u>DRIVER LICENSE</u>	<u>VEHICLE DRIVEN IN THE CRASH</u>	<u>D9</u>
NON-CDL	AUTOMOBILE NON-CDL TRUCK/BUS CDL, NOT REQUIRING ENDORESEMENT CDL, REQUIRING ENDORSEMENT CDL, UNKNOWN IF REQUIRED	0 0 0 2 9
CDL W/NO ENDORSEMENT	AUTOMOBILE NON-CDL TRUCK/BUS CDL, NOT REQUIRING ENDORESEMENT CDL, REQUIRING ENDORSEMENT CDL, UNKNOWN IF REQUIRED	0 0 0 2 9
CDL W/ ENDORSEMENT	AUTOMOBILE NON-CDL TRUCK/BUS CDL, NOT REQUIRING ENDORESEMENT CDL, MATCHING ENDORSEMENT CDL, W/DIFFERENT ENDORSEMENT CDL, UNKNOWN IF REQUIRED	0 0 0 1 2 9
CDL, ENDORSEMENT UNKNOWN	AUTOMOBILE NON-CDL TRUCK/BUS CDL, NOT REQUIRING ENDORESEMENT CDL, REQUIRING ENDORSEMENT CDL, UNKNOWN IF REQUIRED	0 0 0 3 9
CDL UNKNOWN	AUTOMOBILE NON-CDL TRUCK/BUS CDL, NOT REQUIRING ENDORESEMENT CDL, REQUIRING ENDORSEMENT CDL, UNKNOWN IF REQUIRED	0 0 0 3 9
NOT LICENSED	AUTOMOBILE NON-CDL TRUCK/BUS CDL, NOT REQUIRING ENDORESEMENT CDL, REQUIRING ENDORSEMENT CDL, UNKNOWN IF REQUIRED	0 0 0 2 9

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## **LICENSE COMPLIANCE WITH CLASS OF VEHICLE** **(FARS Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.L\_COMPL

### **ELEMENT VALUES:**

- 0 Not licensed
- 1 No license required for this class vehicle
- 2 No valid license for this class vehicle
- 3 Valid license for this class vehicle
- 8 Unknown if CDL and/or CDL endorsement required for this vehicle.
- 9 Unknown

**Definition:** This element refers to the type of license possessed or not possessed by the driver for the class of vehicle being driven at the time of the crash.

### **Source:**

Official driver record and police report. Official driver records take precedence over police reported information.

### **Remarks:**

This element is coded according to the driver's Non-CDL License Status when driving a vehicle not requiring a CDL and to the driver's Commercial Motor Vehicle License Status when driving a vehicle requiring a CDL.

Also see Remarks for D7 on military personnel.

**0 (Not licensed)** should be used only when it has been reasonably established that the driver is not licensed (anywhere) and where D7 equals **0 (Not licensed)**. Drivers who have a license but fail to have their license with them at the time of the crash should be coded according to the type of license they possess and the class of vehicle they were driving. **0 (Not licensed)** should not be used in this instance. If the police report indicates that the driver has "no license," the analyst must first determine whether this means the person was not in possession of his/her license at the time of the crash or that the driver is not a licensed motor vehicle operator. A review of the violations cited section of the police report might yield some clues in this matter. If the person is cited for not possessing his/her license or for not having one, then code this information in variables D21 and D24 (Violations Charged and Related Factors-Driver Level). If the analyst is uncertain as to whether or not the person possesses a license, then **9 (Unknown)** should be used.

**1 (No license required for this class vehicle)** means that a license was not required for the vehicle being driven (e.g., mopeds in some states).

**2 (No valid license for this class vehicle)** may be used for suspended, revoked, canceled or expired driving privileges. It also refers to drivers with a valid license but not for the class of vehicle driven at the time of the crash. As an example, the driver has an “operator’s license” when a “public passenger” type license is required. For this driver, **2 (No valid license for this class vehicle)** should be coded. Another common situation occurs when a separate license is required for a motorcycle. If the driver possesses a valid license for a passenger car but not for the motorcycle, then **2 (No valid license for this class vehicle)** should be used if the driver was involved in this crash while driving a motorcycle.

A license (or a portion of the license applicable to the class vehicle driven) that is not in effect because of some action taken by the State, such as suspended, revoked, etc., is not to be coded as valid. Similarly, learner’s permits that are not used under the proper conditions (for example, a required licensed driver for the class of vehicle driven is not present to accompany the driver involved) are not to be coded as valid either.

**2 (No valid license for this class vehicle)** should be used for suspended, revoked, disqualified, canceled or expired CDL licenses when the vehicle requires a CDL (see table for Commercial Motor Vehicle License Status).

**3 (Valid license for this class vehicle)** refers to the class of vehicle being driven. As an example, the driver has a “motorcycle” driver’s license only and was driving a motorcycle at the time of the crash; **3 (Valid license for this class vehicle)** should be used. On the other hand, a driver might possess a multiple-class license allowing him or her to drive a passenger car as well as a motorcycle. If the vehicle being driven at the time of the crash is a passenger car, also code this element **3 (Valid license for this class vehicle)**. If the vehicle driver requires a CDL and the CDL status is valid, use **3 (Valid license for this class vehicle)**.

**8 (Unknown if CDL and/or CDL endorsement required for the vehicle)** should be used if it cannot be determined if the vehicle driven requires a CDL or CDL endorsement. There should be sufficient cause to suspect the need for a CDL or CDL endorsement to use this code, such as the vehicle’s size (26,001 lbs. or more), configuration (tractor/trailer, combinations, tankers, etc.), or possibly hauling hazardous cargo.

**9 (Unknown)** should be used when the driver has a license but the type or validity are uncertain or if it is unknown whether the driver had a license or not (e.g., hit-and-run).

A cross-reference table for coding variables D7 and D10 follows. Consult this table only when the driver is operating a vehicle that does not require a CDL.

#### Cross Reference Table for D7 and D10

D7 (Status)	D10	0	1	2	3	8	9
0		Y	Y	N	N	N	N
1		N	Y	Y	N	N	N
2		N	Y	Y	N	N	N
3		N	Y	Y	N	N	N
4		N	Y	Y	N	N	N
6		N	Y	Y	Y	N	Y
9		N	Y	N	N	N	Y

Y = Valid Combination

N = Invalid Combination

REMINDER:      D7 = Applies to any license entry in the driver's record (except CDL)  
                   D10 = Applies to this vehicle only

#### Consistency Checks:

	IF	THEN
(1H2F)	DRIVER PRESENCE equals 0, 9,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE must be blank.
(1K0P)	DRIVER'S LICENSE STATE equals 99,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE must not equal 0-3.
(6L0P)	COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 19,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE must equal 3.
(8L0P)	LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0-2, 9,	RELATED FACTORS-DRIVER LEVEL must not equal 19.
(9J0P)	LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0, 1,	COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3, 9.
(BK0P)	LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 1,	COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1-3, 9.
(BL0P)	COMPLIANCE WITH CDL ENDORSEMENTS equals 1, and any RELATED FACTORS-DRIVER LEVEL equals 19,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE must equal 3.
(CG0P)	LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0,	COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1, 3.

	<b>IF</b>	<b>THEN</b>
(D340)	NON-CDL LICENSE STATUS equals 1-4, 6, 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 01-08, 99,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 0.
(D380)	NON-CDL LICENSE STATUS equals 9,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE should equal 1, 9.
(D390)	NON-CDL LICENSE STATUS equals 0,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 2, 3, 8, 9.
(D400)	NON-CDL LICENSE STATUS equals 0-4,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 3, 8, 9.
(D410)	LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0,	COMPLIANCE WITH CDL ENDORSEMENTS should not equal 1-3, 9.

## **COMPLIANCE WITH LICENSE RESTRICTIONS**

**(FARS Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.L\_RESTRI

**ELEMENT VALUES:**

- 0      No Restrictions or Not Applicable
- 1      Restrictions Complied With
- 2      Restrictions Not Complied With
- 3      Restrictions, Compliance Unknown
- 9      Unknown

**Definition:** This element identifies if a driver was compliant with restrictions on their license.

**Remarks:**

Refers to both physical restrictions (corrective lenses, automatic transmission, etc.) and imposed restrictions (limited driving). Starting in 2004, it also refers to any limitations imposed on Learner's Permits and Intermediate Licenses in states with Graduated Driver Licensing (GDL) programs. (e.g., driving during prohibited periods [midnight to 5 AM]; driving without adult supervision, etc.). (See "Coding Scenarios for GDL Licensing Program" table on two pages ahead.)

Code all applicable restrictions regardless of license status.

**Examples:**

If a Non-CDL License Type of **1 (Full Driver License)** is revoked or suspended but limited driving is permitted (e.g., to and from work), use the following criteria:

- a. If the crash occurs during permitted times of driving, code Non-CDL License Type as **1 (Full Driver License)** and Status as **6 (Valid)**, code Compliance With License Restrictions as **1 (Restrictions Complied With)**, and code Related Factors-Driver Level as **19 (Legally Driving on Suspended or Revoked License)**.
- b. If the crash occurs during invalid times for driving, code Non-CDL License Type as **1 (Full Driver License)** and Status as **1 (Suspended)** or **2 (Revoked)**, code Compliance With License Restrictions as **2 (Restriction Not Complied With)**, and do not use Related Factors-Driver Level as **19 (Legally Driving on Suspended or Revoked License)**.

If due to a CDL, a driver has more than one license restriction, code compliance for the most appropriate license restrictions based on the vehicle being driven at the time of the crash. (i.e. – if vehicle being driven requires a CDL, use the CDL license restrictions).

**10 (No Restrictions or Not Applicable)** is used when the driver has no restrictions on their license, when the driver is unlicensed or when they are operating a vehicle that does not require a license.

**1 (Restrictions Complied With)** is used when the driver is in compliance with the restrictions for their driver's license.

**2 (Restrictions Not Complied With)** is used when the driver is not compliant with the restrictions for their driver's license.

**3 (Restrictions, Compliance Unknown)** is used when it is known that this driver has restrictions on their license but compliance is not known.

**9 (Unknown)** is used when it is unknown if the driver is licensed or when it is unknown if a licensed driver had restrictions.

#### **Consistency Checks:**

IF	THEN
(1H4F) DRIVER PRESENCE equals 0, 9,	COMPLIANCE WITH LICENSE RESTRICTIONS must be blank.
(2I0P) DRIVER'S LICENSE STATE equals 99,	COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 0-3.
(5I0P) NON-CDL LICENSE STATUS equals 0,	COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3, 9.
(6I0P) NON-CDL LICENSE STATUS equals 9, and COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,	COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3.
(6L0P) COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 19,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE must equal 3.
(7I0P) COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 19,	NON-CDL LICENSE STATUS must equal 6.
(8J2P) RELATED FACTORS-DRIVER LEVEL equals 73, 74,	COMPLIANCE WITH LICENSE RESTRICTIONS must equal 2.

	<b>IF</b>	<b>THEN</b>
(9J0P)	LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0, 1,	COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3, 9.
(D260)	NON-CDL LICENSE STATUS equals 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 99,	COMPLIANCE WITH LICENSE RESTRICTIONS should not equal 0.
(D690)	NON-CDL LICENSE TYPE equals 2, 7, and COMPLIANCE WITH LICENSE RESTRICTIONS equals 2,	RELATED FACTORS-DRIVER LEVEL should equal 73, 74.
(D700)	NON-CDL LICENSE TYPE equals 1, and COMPLIANCE WITH LICENSE RESTRICTIONS equals 2,	RELATED FACTORS-DRIVER LEVEL should equal 74.
(D730)	RELATED FACTORS-DRIVER LEVEL equals 73,	COMPLIANCE WITH LICENSE RESTRICTIONS should equal 2, and NON-CDL LICENSE TYPE should equal 2, 7.

<u><b>CODING SCENARIOS FOR GRADUATED DRIVER'S LICENSING PROGRAM</b></u>	<u><b>NON-CDL TYPE</b></u>	<u><b>NON- CDL STATUS</b></u>	<u><b>COMP.W/ LIC.RES.</b></u>	<u><b>RELATED FACTORS- DRIVER LEVEL</b></u>
1. A 16-year-old driver with a valid Intermediate License driving a vehicle during prohibited driving hours without corrective lenses.	2	6	2	73, 74
2. A 15-year-old with a valid Learner's Permit driving alone (adult supervision required).	7	6	2	73
3. A 16-year-old with a valid Intermediate License not complying with seat-belt requirement during permitted daytime driving hours.	2	6	2	73
4. A 17-year-old driver with a valid Intermediate License. The officer reported there was a 19-year-old non-family passenger, in violation of the state's GDL requirements.	2	6	2	73
5. An 18-year-old driver with an expired Learner's Permit driving with no violations of GDL restrictions.	7	3	1	00
6. A 15-year-old with a suspended Learner's Permit is driving without required prescription lenses, and is complying with all GDL restrictions.	7	1	2	74
7. A driver with a suspended Intermediate Driver's License complying with all GDL restrictions.	2	3	1	00
8. A 19-year-old with a valid Intermediate License which was extended due to prior GDL violations is driving a truck greater than 26,000 lbs. Requiring a CDL during prohibited hours.	2	6	2	73
9. A driver with a valid Full Driver's License driving without required corrective lenses.	1	6	2	74

## **DRIVER HEIGHT** **(FARS Only)**

**FORMAT:** 1 set 1 numeric, 1 set 2 numeric

**SAS NAME:** Vehicle.DR\_HGT

**ELEMENT VALUES:**

**Feet:**

0	See Inches
2-8	Actual Feet
9	Unknown

**Inches:**

00-11	Actual Inches
24-96	
98	Other
99	Unknown

**Definition:** This element identifies a driver's height.

**Remarks:**

Use the driver licensing files to code this element. The Coroner's Report may be used and may contain more current/accurate information.

Code the driver's height in feet and inches, if available. Inches less than 10 must be right-justified with a leading "0" (e.g., nine inches is coded "09"). If Height is only available in total inches, then code INCHEs and code FEET as "0."

The tallest Height that can be recorded in total INCHEs is 96 inches (8 ft). The tallest Height that can be recorded in FEET and INCHEs is 8 ft. – 11 inches. If the driver is taller than 96 inches, then you must code Height as feet and inches. If the driver is taller than 8 ft. – 11 inches, then you must code the DRIVER HEIGHT as "Other" (0 FEET, 98 INCHEs).

DRIVER HEIGHT less than "3 Feet" or greater than "7 Feet – 0 Inches" or less than "36 Inches" or greater than "0 Feet – 84 Inches" will raise an error flag.

**Consistency Checks:**

IF	THEN
(1HDF) DRIVER PRESENCE equals 0, 9,	DRIVER HEIGHT (feet and inches) must equal blank.
(4H1P) DRIVER HEIGHT/INCHES is less than 12,	DRIVER HEIGHT/FEET must not be blank.
(4H2P) DRIVER HEIGHT/INCHES is greater than 11,	DRIVER HEIGHT/FEET must equal 0.
(4H3P) DRIVER HEIGHT/FEET is 2-8,	DRIVER HEIGHT/ INCHES must equal 00-11.
(4H4P) DRIVER HEIGHT/FEET equals 9,	DRIVER HEIGHT/INCHES must equal 99.
(4H5P) DRIVER HEIGHT/INCHES equals 99,	DRIVER HEIGHT/FEET must equal 9.
(4H6P) DRIVER HEIGHT/INCHES equals 98,	DRIVER HEIGHT/FEET must equal 0.
(4H7P) DRIVER HEIGHT/FEET is 0,	DRIVER HEIGHT/INCHES must equal 24-96, 98.
(D600) DRIVER HEIGHT/INCHES is greater than 11,	DRIVER HEIGHT/INCHES should not be less than 48.
(D610) DRIVER HEIGHT/FEET is not blank,	DRIVER HEIGHT/FEET should not be less than 3.
(U260) UNLIKELY: DRIVER HEIGHT is less than 3 feet or greater than 7 feet, verify data.	
(U280) UNLIKELY: DRIVER HEIGHT is less than 36 inches or greater than 84 inches, verify data.	

## **DRIVER WEIGHT** **(FARS Only)**

**FORMAT:** 3 numeric

**SAS NAME:** Vehicle.DR\_WGT

**ELEMENT VALUES:**

040-700	Actual weight in pounds
998	Other
999	Unknown

**Definition:** This element identifies a driver's weight.

**Remarks:**

Use the driver licensing files to code this element. The Coroner's Report may be used and may contain more current/accurate information.

Code the driver's weight in pounds, if available.

Weight should be right justified.

Weights less than 100 lbs. must be coded with a leading "0" in the left-most position (e.g., 98 lbs. is coded "098").

DRIVER WEIGHT less than 50 lbs. or greater than 399 lbs. will raise an error flag.

**Consistency Checks:**

IF	THEN
(1HEF) DRIVER PRESENCE equals 0, 9,	DRIVER WEIGHT must equal blank.
(U290) UNLIKELY: DRIVER WEIGHT is less than 50 lbs. or greater than 399 lbs., verify data.	

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## **DRIVER LEVEL COUNTERS** **(FARS Only)**

**PREVIOUS RECORDED CRASHES\***  
**PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS\***  
**PREVIOUS DWI CONVICTIONS\***  
**PREVIOUS SPEEDING CONVICTIONS\***  
**PREVIOUS OTHER HARMFUL MV CONVICTIONS \***

**FORMAT:** 2 numeric for each element

**SAS NAME:** Vehicle.PREV\_ACC, Vehicle.PREV\_SUS, Vehicle.PREV\_DWI,  
Vehicle.PREV\_SPD, Vehicle.PREV\_OTH

### **ELEMENT VALUES:**

- |       |  |
|-------|--|
| 00    | None   |
| 01-97 | Actual Value, but any value greater than 05 will be questioned (except for "Previous Recorded Suspensions and Revocations" when any value greater than 10 will be questioned). |
| 98    | Crashes not reported on Driving Record (valid only for Previous Recorded Crashes)  |
| 99    | Unknown  |

**Definition for Previous Recorded Crashes:** This element records any previous crashes for this driver. Counts only events occurring within three years from the crash date.

**Definition for Previous Recorded Suspensions and Revocations:** This element records any previous license suspensions or revocations for this driver. Counts only events occurring within three years from the crash date.

**Definition for Previous DWI Convictions:** This element records any previous DWI convictions for this driver. Counts only events occurring within three years from the crash date.

**Definition for Previous Speeding Convictions:** This element records any previous Speeding convictions for this driver. Counts only events occurring within three years from the crash date.

**Definition for Previous Other Harmful MV Convictions:** This element records any other previous moving violations or convictions for this driver. Counts only events occurring within three years from the crash date.

D14, D15, D16  
D17, D18

**Remarks:**

If a driver has been DISQUALIFIED for a CDL, record this event in PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS. DO NOT include the current crash in any of the counters.

Remember there is a difference between a violation and a conviction. The violation is not counted in Previous DWI, Previous Speeding and Previous Other Harmful Moving Violation Convictions. These elements refer ONLY TO CONVICTIONS. Both convictions and violations appear on driver records in many states. Be careful that you code the conviction dates and NOT the violation dates.

DWI refers to both alcohol and drug convictions.

When you are responding to another state's request for driver data, do the following:

1. In the counters, record both in-state and out-of-state convictions, crashes, suspensions and revocations that appear on your state's record.
2. List out-of-state activity that is included in the counters in the area provided on the OUT-OF-STATE DRIVER DATA RESPONSE ([see example on next page](#)).

The Out-of-State Driver Data Response is provided through the message system.

Drivers can have a driving record or driver's license from more than one state. When you are coding the driver level counter elements (Crashes, Suspensions, Revocations, DWI, Speeding and Other Harmful MV Conviction), be sure to combine distinct events from all of the records you have. Be careful not to double-count the same event. Also use Related Factors – Driver Level **89 (Driver has a Driving Record or Driver's License From More Than One State)** when this situation occurs.

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**OUT-OF-STATE DRIVER DATA RESPONSE**

---

DEST. STATE:	VEHICLE NO.:		
STATE CASE #:	DATE OF CRASH: / /		
FARS CODE #:			
DRIVER NAME:	NON-CDL	DATE OF BIRTH: / /	
LICENSE STATE:	STATUS: /		
LICENSE TYPE COMPLIANCE:	CDL STATUS: /	DRIVER HEIGHT: /	
	DRIVER ZIP CODE: /	DRIVER WEIGHT: /	
	RACE/HISPANIC ORIGIN: /		
NON-CDL RESTRICTIONS (1) (2) (3)	NON-CDL ENDORSEMENTS (1) (2) (3)	CDL RESTRICTIONS (1) (2) (3)	CDL ENDORSEMENTS (1) (2) (3)

---

**PREVIOUS RECORD**  
**(Number Of)**

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CRASHES \_\_\_\_ SUSP/REVO \_\_\_\_ DWI \_\_\_\_ SPEED \_\_\_\_ OTHER CONV. \_\_\_\_

LAST CRASH, SUSP., DWI, ETC. / / FIRST CRASH, SUSP., DWI, ETC. / /

**OUT-OF-STATE VIOLATIONS INCLUDED\* ABOVE:**

\*(INCLUDE KNOWN OUT-OF-STATE CRASHES, SUSP/REV., DWI, SPEED, ETC.  
IN PREVIOUS RECORD COUNTS ABOVE AND LIST BELOW)

VIOLATION DATE	CONVICT DATE	VIOLATION (TRANSLATION)	STATE	ACC,SUSP/REV,DWI, SPEED OR OTHER?
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**COMMENTS:**

**NOTES TO SENDING ANALYST:**

Please be careful not to include PREVIOUS RECORD information for events which occur  
after the DATE OF CRASH

Please fill all appropriate fields. Don't leave blanks

D14, D15, D16  
D17, D18

PREVIOUS OTHER HARMFUL MV CONVICTIONS includes all other motor vehicle convictions. Some examples of convictions include:

- running a red light,
- reckless driving,
- improper lane changing,
- failure to yield, etc.

\* For Element\_\_\_\_\_, Values greater than\_\_\_\_are unlikely and will raise an error flag:

<u>Element</u>	<u>Value</u>
PREVIOUS RECORDED CRASHES	5
PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS	10
PREVIOUS DWI CONVICTIONS	5
PREVIOUS SPEEDING CONVICTIONS	5
PREVIOUS OTHER HARMFUL MV CONVICTION	5

Make sure you know what constitutes a MOVING VIOLATION in your state. The DMV should be able to help you determine these.

#### Consistency Checks:

	<u>IF</u>	<u>THEN</u>
(1H7F)	DRIVER PRESENCE equals 0, 9,	PREVIOUS RECORDED CRASHES must be blank.
(1H8F)	DRIVER PRESENCE equals 0, 9,	PREVIOUS RECORDED SUSPENSIONS must be blank.
(1H9F)	DRIVER PRESENCE equals 0, 9,	PREVIOUS DWI CONVICTIONS must be blank.
(1H0F)	DRIVER PRESENCE equals 0, 9,	PREVIOUS SPEEDING CONVICTIONS must be blank.
(1HAF)	DRIVER PRESENCE equals 0, 9,	PREVIOUS OTHER HARMFUL MV CONVICTIONS must be blank.
(1J0P)	any counter equals 99,	all counters must equal 99.
(1J1P)	any counter equals 99,	DATE OF LAST CRASH, SUSPENSION, CONVICTION must equal 999999.
(1J2P)	any counter equals 99,	DATE OF FIRST CRASH, SUSPENSION, CONVICTION must equal 999999.
(2J0P)	all counters are not blanks and PREVIOUS RECORDED CRASHES is not equal to 98 and any counter are not equal to 00, 99,	DATE OF LAST CRASH, SUSPENSION, CONVICTION must not equal 000000, 999999.

	IF	THEN
(2J1P)	all counters are not blanks and PREVIOUS RECORDED CRASHES is not equal to 98 and any counter are not equal to 00, 99,	DATE OF FIRST CRASH, SUSPENSION, CONVICTION must not equal 000000, 999999.
(3I1P)	DRIVER'S LICENSE STATE equals 99,	all driver history counters PREVIOUS RECORDED CRASHES must equal 99.
(3I2P)	DRIVER'S LICENSE STATE equals 99,	all driver history counters PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS must equal 99.
(3I3P)	DRIVER'S LICENSE STATE equals 99,	all driver history counters PREVIOUS DWI CONVICTIONS must equal 99.
(3I4P)	DRIVER'S LICENSE STATE equals 99,	all driver history counters PREVIOUS SPEEDING CONVICTIONS must equal 99.
(3I5P)	DRIVER'S LICENSE STATE equals 99,	all driver history counters PREVIOUS OTHER HARMFUL MV CONVICTIONS must equal 99.
(4J0P)	all counters are not blanks and the sum of all counters less than 98 is equal to 1,	DATE OF LAST CRASH, SUSPENSION, CONVICTION must equal DATE OF FIRST CRASH, SUSPENSION, CONVICTION.
(CJ00)	PREVIOUS RECORDED CRASHES equals 98,	DRIVER'S LICENSE STATE should equal 09, 13, <b>28</b> , 30, 35, 49.
(D010)	DRIVER'S LICENSE STATE equals 96, 97,	PREVIOUS RECORDED CRASHES should equal 99.
(D020)	DRIVER'S LICENSE STATE equals 96, 97,	PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS should equal 99.
(D030)	DRIVER'S LICENSE STATE equals 96, 97,	PREVIOUS DWI CONVICTIONS should equal 99.
(D040)	DRIVER'S LICENSE STATE equals 96, 97,	PREVIOUS SPEEDING CONVICTIONS should equal 99.
(D050)	DRIVER'S LICENSE STATE equals 96, 97,	PREVIOUS OTHER HARMFUL MV CONVICTIONS should equal 99.
(D100)	NON-CDL LICENSE STATUS equals 9,	all driver history counters PREVIOUS RECORDED CRASHES should equal 99.
(D110)	NON-CDL LICENSE STATUS equals 9,	all driver history counters PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS should equal 99.
(D120)	NON-CDL LICENSE STATUS equals 9,	all driver history counters PREVIOUS DWI CONVICTIONS should equal 99.

D14, D15, D16  
D17, D18

	<b>IF</b>	<b>THEN</b>
(D130)	NON-CDL LICENSE STATUS equals 9,	all driver history counters PREVIOUS SPEEDING CONVICTIONS should equal 99.
(D140)	NON-CDL LICENSE STATUS equals 9,	all driver history counters PREVIOUS OTHER HARMFUL MV CONVICTIONS should equal 99.
(D480)	DRIVER'S LICENSE STATE equals 09, 13, <b>28</b> , 30, 35, 49,	PREVIOUS RECORDED CRASHES should equal 98.
(U210)	UNLIKELY: PREVIOUS RECORDED CRASHES is greater than 5 and less than 98.	
(U220)	UNLIKELY: PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS is greater than 10 and less than 98.	
(U230)	UNLIKELY: PREVIOUS DWI CONVICTIONS is greater than 5 and less than 98.	
(U240)	UNLIKELY: PREVIOUS SPEEDING CONVICTIONS is greater than 5 and less than 98.	
(U250)	UNLIKELY: PREVIOUS OTHER HARMFUL MV CONVICTIONS is greater than 5 and less than 98.	

## **DATE OF FIRST AND LAST CRASH, SUSPENSION, CONVICTION (FARS Only)**

**FORMAT:** 1 set 2 numeric, 1 set 4 numeric for each element.

**SAS NAME:** Vehicle.FIRST\_MO, Vehicle.FIRST\_YR / Vehicle.LAST\_MO, Vehicle.LAST\_YR

**ELEMENT VALUES:**

**Month:**

00	No Record
01-12	Actual Month
99	Unknown

**Year:**

0000	No Record
	All 4 Digits of Actual Year
9999	Unknown

**Definition for Date of First Crash, Suspension, Conviction:** This element identifies the date of the first crash, suspension, or conviction. Counts only dates of events occurring within three years from the crash date.

**Definition for Date of Last Crash, Suspension, Conviction:** This element identifies the date of the last crash, suspension, or conviction. Counts only dates of events occurring within three years from the crash date.

**Remarks:**

Code only dates of events occurring within three years from the crash date.

Code the month and year in that order.

This element, although it contains two pieces of information, should be treated as one element. That is never leave month blank without leaving the year blank, and vice versa.

**Consistency Checks:**

**IF**

**THEN**

(1HCF) DRIVER PRESENCE equals 0, 9,

DATE OF FIRST CRASH, SUSPENSION, CONVICTION must be blank.

IF	THEN
(1HBF) DRIVER PRESENCE equals 0, 9,	DATE OF LAST CRASH, SUSPENSION, CONVICTION must be blank.
(1J1P) If any counter equals 99,	DATE OF LAST CRASH, SUSPENSION, CONVICTION must equal 999999.
(1J2P) If any counter equals 99,	DATE OF FIRST CRASH, SUSPENSION, CONVICTION must equal 999999.
(2J0P) all counters are not blanks and PREVIOUS RECORDED CRASHES is not equal to 98 and any counter are not equal to 00, 99,	DATE OF LAST CRASH, SUSPENSION, CONVICTION must not equal 000000, 999999.
(2J1P) all counters are not blanks and PREVIOUS RECORDED CRASHES is not equal to 98 and any counter are not equal to 00, 99,	DATE OF FIRST CRASH, SUSPENSION, CONVICTION must not equal 000000, 999999.
(2K0P) DATE OF FIRST CRASH, SUSPENSION, CONVICTION must be less than or equal to DATE OF LAST CRASH, SUSPENSION, CONVICTION.	
(3J1P) all counters equal 00,	DATE OF FIRST CRASH, SUSPENSION, CONVICTION must equal 000000.
(4J0P) all counters are not blanks and the sum of all counters less than 98 is equal to 1,	DATE OF LAST CRASH, SUSPENSION, CONVICTION must equal DATE OF FIRST CRASH, SUSPENSION, CONVICTION.
(4K2P) Month of DATE OF FIRST CRASH, SUSPENSION, CONVICTION equals 00,	Year (of same) must equal 0000.
(4K3P) Year of DATE OF FIRST CRASH, SUSPENSION, CONVICTION equals 0000,	Month (of same) must equal 00.
(5J0P) If the sum of all counters less than 98 is greater than fifteen,	DATE OF LAST CRASH, SUSPENSION, CONVICTION must not equal DATE OF FIRST CRASH, SUSPENSION, CONVICTION.
(5K0P) The Year of DATE OF FIRST CRASH, SUSPENSION, CONVICTION must be within three years of the Year of CRASH DATE.	
(990P) any counter equals 99,	all counters and DATE OF LAST CRASH, SUSPENSION, CONVICTION and DATE OF FIRST CRASH, SUSPENSION, CONVICTION must equal 9999.

**IF**

(D150) the sum of all counters less than 98 is greater than five but less than fifteen,

**THEN**

DATE OF LAST CRASH, SUSPENSION, CONVICTION should not equal DATE OF FIRST CRASH, SUSPENSION, CONVICTION.

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## **VIOLATIONS CHARGED**

**FORMAT:** 2 numeric. Select all the apply.

**SAS NAME:** Violatn.MVIOLATN

**ELEMENT VALUES:**

1 None

**Reckless/Careless/Hit-and-Run Type Offenses**

- 2 Manslaughter or homicide
- 3 Willful reckless driving; driving to endanger; negligent driving
- 4 Unsafe reckless (not willful, wanton reckless) driving
- 5 Inattentive, careless, improper driving
- 6 Fleeing or eluding police
- 7 Fail to obey police, fireman, authorized person directing traffic
- 8 Hit-and-run, fail to stop after crash
- 9 Fail to give aid, information, wait for police after crash
- 10 Serious violation resulting in death

**Impairment Offenses**

- 11 Driving while intoxicated (alcohol or drugs) or BAC above limit (any detectable BAC for CDLs)
- 12 Driving while impaired
- 13 Driving under influence of substance not intended to intoxicate
- 14 Drinking while operating
- 15 Illegal possession of alcohol or drugs
- 16 Driving with detectable alcohol
- 18 Refusal to submit to chemical test
- 19 Alcohol, drug or impairment violations generally

**Speed-Related Offenses**

- 21 Racing
- 22 Speeding (above the speed limit)
- 23 Speed greater than reasonable & prudent (not necessarily over the limit)
- 24 Exceeding special limit (e.g.: for trucks, buses, cycles, or on bridge, in school zone, etc.)
- 25 Energy speed (exceeding 55 mph, non-pointable)
- 26 Driving too slowly
- 29 Speed related violations, generally

**Rules of the Road – Traffic Sign & Signals**

- 31 Fail to stop for red signal
- 32 Fail to stop for flashing red

- 33 Violation of turn on red (fail to stop & yield, yield to pedestrians before turning)
- 34 Fail to obey flashing signal (yellow or red)
- 35 Fail to obey signal, generally
- 36 Violate RR grade crossing device/regulations
- 37 Fail to obey stop sign
- 38 Fail to obey yield sign
- 39 Fail to obey traffic control device

#### **Rules of the Road – Turning, Yielding, Signaling**

- 41 Turn in violation of traffic control (disobey signs, turn arrow or pavement markings; this is not a right-on-red violation)
- 42 Improper method & position of turn (too wide, wrong lane)
- 43 Fail to signal for turn or stop
- 45 Fail to yield to emergency vehicle
- 46 Fail to yield, generally
- 48 Enter intersection when space insufficient
- 49 Turn, yield, signaling violations, generally

#### **Rules of the Road – Wrong Side, Passing & Following**

- 51 Driving wrong way on one-way road
- 52 Driving on left, wrong side of road, generally
- 53 Improper, unsafe passing
- 54 Pass on right (drive off pavement to pass)
- 55 Pass stopped school bus
- 56 Fail to give way when overtaken
- 58 Following too closely
- 59 Wrong side, passing, following violations, generally

#### **Rules of the Road – Lane Usage**

- 61 Unsafe or prohibited lane change
- 62 Improper use of lane (enter of 3-lane road, HOV designated lane)
- 63 Certain traffic to use right lane (trucks, slow-moving, etc.)
- 66 Motorcycle lane violations (more than two per lane, riding between lanes, etc.)
- 67 Motorcyclist attached to another vehicle
- 69 Lane violations, generally

#### **Non-Moving – License and Registration Violations**

- 71 Driving while license withdrawn
- 72 Other driver license violations
- 73 Commercial driver violations (log book, hours, permits carried)
- 74 Vehicle registration violations
- 75 Fail to carry insurance card
- 76 Driving uninsured vehicle
- 79 Non-moving violations, generally

**Equipment**

- 81 Lamp violations
- 82 Brake violations
- 83 Failure to require restraint use (by self or passengers)
- 84 Motorcycle equipment violations (helmet, special equipment)
- 85 Violation of hazardous cargo regulations
- 86 Size, weight, load violations
- 89 Equipment violations, generally

**License, Registration & Violations**

- 91 Parking
- 92 Theft, unauthorized use of motor vehicle
- 93 Driving where prohibited (sidewalk, limited access, off truck route)
- 97 Not Reported
- 98 Other moving violation (coasting, backing, opening door)
- 99 Unknown VIOLATION(s)

**Definition:** This element identifies all violations charged to this driver in this crash.

**Remarks:**

This refers to those violations to the Vehicle Code charged as noted on the police accident report. Code all violations listed on the PAR for this driver ***regardless of ownership of the vehicle (e.g., "borrowed", "fleet", "rental cars", etc.).***

If you are unable to distinguish between the violations within a specific category, use the General Code (i.e., 09, 19, 29, 39, 49, 59, 69, 79, 89) for that category.

**00 (None)** is used when there is indication that no violations were charged to this driver or when no violations are noted in the case materials for this driver and that indicates no violations were charged to the driver.

**GES SPECIAL INSTRUCTION:**

In cases where the investigating officer has designated “pending” in the case materials use **00 (None)**.

**71 (Driving While License Withdrawn)** *would include violations for operating a vehicle with a suspended or revoked driver's license or violating the provisions of a work permit.*

**72 (Other Driver License Violations)** *is used when the driver is cited for not complying with learner's permit or intermediate driver license restrictions (GDL Restrictions) or if the driver's license has expired. This attribute is also used when the driver has been cited for driving without a license (i.e., never been issued a license. For suspended or revoked, see 71 (Driving While License Withdrawn)).*

**97 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **97 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown Violation(s))** is used when it is known that this driver had one or more violations but the specific violation(s) or violation category(ies) cannot be identified.

Examples:

- If it is known a driver had two violations but they cannot be identified code 99 (Unknown Violation(s)) once.
- If the driver has a known specific violation(s) and other unspecified violation(s) code all the specific violation(s) and code 99 (Unknown Violation(s)) once.

**FARS SPECIAL INSTRUCTION:**

In cases where the investigating officer has designated "pending", always follow up whenever possible to confirm a violation was charged before entering **00 (None)** or **99 (Unknown)**.

Consistency Checks:

IF	THEN
(1H6F) DRIVER PRESENCE equals 0, 9, (6K0P) VIOLATION CHARGED equals 71,	VIOLATIONS CHARGED must be blank. RELATED FACTORS-DRIVER LEVEL must not equal 19.
(7K0P) any VIOLATIONS CHARGED equals 71,	NON-CDL LICENSE STATUS must equal 0, 1, 2, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS must equal 01, 02, 05.
(7K1P) VIOLATIONS CHARGED code 99 must not be used more than once per driver.	

	IF	THEN
(8K0P)	VIOLATIONS CHARGED equals 07, 08,	HIT-AND-RUN must not equal 0.
(A270)	any VIOLATIONS CHARGED equals 31-35, 37,	TRAFFIC CONTROL DEVICE should equal 01-20, 98.
(D080)	VIOLATION CHARGED equals 01-06, 09, 31-69, 81-91, 98,	RELATED FACTORS-DRIVER LEVEL should not all equal 00, 99.
(D090)	VIOLATIONS CHARGED equals 11-19, and PERSON TYPE equals 01, 03,	POLICE REPORTED ALCOHOL INVOLVEMENT should equal 1, or POLICE REPORTED DRUG INVOLVEMENT should equal 1.
(D350)	VIOLATIONS CHARGED equals 71,	NON-CDL LICENSE STATUS should not equal 0, 3, 6, 9.
(D500)	VIOLATIONS CHARGED equals 05,	at least one RELATED FACTORS-CRASH LEVEL should equal 20.
(D530)	any VIOLATIONS CHARGED equals 36 for a vehicle involved in the first harmful event,	RELATION TO JUNCTION (b) should equal 06.
(D560)	VIOLATIONS CHARGED equals 66,	BODY TYPE should equal 80-83, 88, 89.
(D570)	any VIOLATIONS CHARGED equals 83,	not all occupants of this vehicle should have RESTRAINT SYSTEM/HELMET USE equal to 01-05, 08, 10-12, 16, 19. HM1 should equal 2.
(D580)	VIOLATIONS CHARGED equals 85,	SPEEDING RELATED must equal 2-5.
(D5A0)	VIOLATIONS CHARGED equals 21-25, 29,	
(D5B0)	any VIOLATIONS CHARGED equals 11-13, 18, 19,	at least one CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) should equal 09.
(D5E0)	any VIOLATIONS CHARGED equals 00 or 97,	only that one code and no other must be coded for this driver.
(U440)	UNLIKELY: VIOLATIONS CHARGED equals 97.	

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## **SPEEDING RELATED**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.Speedrel

**ELEMENT VALUES:**

- |   |                              |
|---|------------------------------|
| 0 | No                           |
| 2 | Yes, Racing                  |
| 3 | Yes, Exceeded Speed Limit    |
| 4 | Yes, Too Fast for Conditions |
| 5 | Yes, Specifics Unknown       |
| 9 | Unknown                      |

**Definition:** This element identifies if the driver's speed was related to the crash as identified by law enforcement.

**Remarks:**

*If the case materials state that more than one condition was present at the same time, enter the code with the lowest value. For example, if the driver was charged with "Too Fast for Conditions" and had a factor recorded for "Exceeded Speed Limit", you would use code 3 (Yes, Exceeded Speed Limit) because that has a lower value than 4 (Yes, Too Fast for Conditions).*

Speed can be indicated in the case materials by the police issuing a citation for a speed offense, by their indicating a related or contributing factor, or through a description in the narrative.

**0 (No)** is used if the case materials do not indicate any speed related charges (violations, citations) and do not indicate any speed related factors.

**2 (Yes, Racing)** is used when two or more motor vehicles are engaged in a speed-related competition on the trafficway.

**3 (Yes, Exceeded Speed Limit)** is used when a motor vehicle is traveling above the posted/statutory speed limit on certain designated roadways and/or by certain types of vehicles; e.g., for trucks, buses, motorcycles, on bridge, at night, in school zone, etc.). Do not compare an estimated travel speed to the posted speed limit for determining the correct attribute for this data element. *This attribute would apply in a case where law enforcement reports actual or estimated speed as unknown and still identifies exceeding the speed limit as a factor.*

**4 (Yes, Too Fast for Conditions)** is used when a vehicle is traveling at a speed that was unsafe for the road, weather, traffic or other environmental conditions at the time.

**5 (Yes, Specifics Unknown)** is used when it is known that Speed or Speeding applies but it cannot be determined which of the more specific attributes apply.

**9 (Unknown)** is used if the police state that the circumstances of the crash are unknown (i.e., it is unknown what factors, if any, may have been present at the time of the crash).

**Consistency Checks:**

IF	THEN
(1HFF) DRIVER PRESENCE equals 0, 9,	SPEEDING RELATED must be blank.
(D5A0) VIOLATIONS CHARGED equals 21-25, 29,	SPEEDING RELATED must equal 2-5.

## **CONDITION (IMPAIRMENT) AT TIME OF CRASH**

**FORMAT:** 2 numeric. Select all that apply

**SAS NAME:** Drimpair.DRIMPAL

**ELEMENT VALUES:**

- 1     None/Apparently Normal
- 2     III, Blackout
- 3     Asleep or Fatigued
- 4     Walking with a Cane or Crutches, **etc.**
- 5     Paraplegic Or Restricted To Wheelchair
- 6     Impaired Due To Previous Injury
- 7     Deaf
- 8     Blind
- 9     Emotional (depressed, angry, disturbed, etc)
- 10    Under the Influence of Alcohol, Drugs or Medication
- 11    Physical Impairment – No Details
- 96    Other Physical Impairment
- 98    Not Reported
- 99    Unknown If Impaired

**Definition:** This element identifies physical impairments to this driver or non-motorist which may have contributed to the cause of the crash as identified by law enforcement.

**Remarks:**

Select all that apply.

These impairments can appear anywhere in the case materials--in the narrative section, in the violations section, in a column entitled "Contributing Factors" or "Driver Action", etc. Do not consider pedestrian, non-motorist or witness statements unless verified by the investigating police officer by being reported in the narrative section of the crash report.

**1 (None/Apparently Normal) is used when:**

- When the case materials make a positive statement that the individual was apparently normal or "none" was indicated on the PAR.
- When the case materials do not indicate an impairment in an available field and not reporting an impairment in that field indicates **00 (None/Apparently Normal)**.
- When the investigating officer
  - is limited in the number of factors that can be displayed
  - and cannot select an impairment in addition to another factor relevant to the crash
  - and some other factor is selected
  - and no other indication of impairment exists in the case materials.

- For omission of information see 98 (Not Reported) guidance below.

**2 (III, Blackout)** is used when indicated in the case materials. Enter this attribute even if the source of the illness or loss of consciousness is alcohol or drug related. Use this attribute if the driver or non-motorist had fainted and/or seizures were identified.

**3 (Asleep or Fatigued)** is used when indicated in the case materials. Also, use this attribute when the investigating officer indicates the person was drowsy or sleepy. Alcohol or other drugs may be the source of this impairment.

**4 (Walking with a Cane or Crutches, etc.)** is used when non-motorist is walking with a cane, **walker, knee scooter**, or crutches when indicated in the case materials.

**5 (Paraplegic or Restricted to Wheelchair)** is used if this person has to use a wheelchair or is paraplegic (may or may not have used a wheelchair).

**6 (Impaired Due to Previous Injury)** is used if the case materials specifically indicates this condition (e.g., if a person is involved in this crash subsequent to his/her involvement in a previous crash in which the person was injured). This attribute should be extremely rare.

**7 (Deaf)** is used when this condition is attributed to this person in the case materials.

**8 (Blind)** is used when this condition is attributed to this person in the case materials.

**9 (Emotional [depressed, angry, disturbed, etc.])** is used when the person is arguing with someone, is having a disagreement, is depressed and/or is emotionally upset.

**10 (Under the Influence of Alcohol, Drugs or Medication)** is used when the investigating officer indicates that the individual was under the influence of alcohol, drugs or medication.  
***This attribute excludes interpretation of test results by the analyst/coder.***

**11 (Physical Impairment-No Details)** is used when the case materials indicate a physical impairment existed but provides no further details about the impairment.

**96 (Other Physical Impairment)** is used when the case materials indicate that a physical impairment was involved but it isn't a listed attribute.

#### **98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)

2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown if Impaired)** is used if the investigating officer states that the physical impairment of this person is unknown. Hit-and-Run drivers are included in this attribute.

**Consistency Checks:**

IF	THEN
(4X2F) any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 00 or 98 or 99,	only that one code and no other must be coded for this driver.
(4X4F) any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 09,	POLICE REPORTED ALCOHOL INVOLVEMENT (P16) or POLICE REPORTED DRUG INVOLVEMENT (P19) should equal 1 for this person. CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) must be blank.
(6H1P) DRIVER PRESENCE equals 0, 9,	<b><i>CRITICAL EVENT: PRECRASH (EVENT) should not equal 08 for this driver's vehicle.</i></b>
<b>(B17P) CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 09 for this driver,</b>	at least one CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) should equal 09.
(D5B0) any VIOLATIONS CHARGED equals 11-13, 18, 19,	
(U530) UNLIKELY: <u>any</u> CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 03, 05 or 07.	
<b>(U682) UNLIKELY: CRITICAL EVENT: PRECRASH (EVENT) equals 08 for this vehicle and CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) does not equal 01 for this vehicle's driver.</b>	

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## **RELATED FACTORS – DRIVER LEVEL**

**FORMAT:** 2 numeric occurring 4 times

**SAS NAME:** Vehicle.DR\_SF1, Vehicle.DR\_SF2, Vehicle.DR\_SF3, Vehicle.DR\_SF4

**ELEMENT VALUES:**

00 None

**Physical/Mental Condition:**

- 06 Careless Driving
- 08 Aggressive Driving / Road Rage
- \*13 Mentally Challenged
- \*04 Reaction to or Failure to Take Drugs/Medication
- \*12 Mother of Dead Fetus/Mother of Infant Born Post Crash

**Miscellaneous Factors:**

- \*15 Seat Back Not In Normal Upright Position, Seat Back Reclined
- 18 Traveling on Prohibited Trafficways
- \*19 Legally Driving on Suspended or Revoked License
- 20 Leaving Vehicle Unattended with Engine Running  
Leaving Vehicle Unattended in Roadway
- 21 Overloading or Improper Loading of Vehicle With  
Passengers or Cargo
- 22 Towing or Pushing Improperly
- 23 Failure to Dim Lights or to Have Lights on When Required
- 24 Operating Without Required Equipment
- \*26 Following Improperly
- \*27 Improper or Erratic Lane Changing
- \*28 Failure to Keep in Proper Lane
- \*29 **Intentional** Illegal Driving on Road Shoulder, in Ditch, on Sidewalk or on Median
- \*30 Making Improper Entry To or Exit From Trafficway
- \*31 Starting or Backing Improperly
- 32 Opening Closure into Moving Traffic or While Vehicle is in Motion
- \*33 Passing Where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or  
School Bus Displaying Warning Not to **Pass**
- \*34 Passing on Wrong Side
- \*35 Passing With Insufficient Distance, or Inadequate Visibility, or Failing to Yield to  
Overtaking Vehicle
- 36 Operating the Vehicle in an Erratic, Reckless or Negligent Manner Operating at  
Erratic or Suddenly Changing Speeds
- 16 Police or Law Enforcement Officer
- 37 Police Pursuing This Driver or Police Officer in Pursuit
- \*38 Failure to Yield Right-of-Way

- \*39 Failure to Obey Actual Traffic Signs, Traffic Control Devices or Traffic Officers  
Failure to Obey Safety Zone Traffic Laws
- \*40 Passing Through or Around Barrier
- \*41 Failure to Observe Warnings or Instructions on Vehicles Displaying Them
- \*42 Failure to Signal Intentions
- \*45 Driving Less Than Posted Minimum
- \*47 Making Right Turn From Left-Turn Lane, Left Turn from Right-Turn Lane
- \*48 Making Other Improper Turn
- 50 Driving Wrong Way on One-Way Trafficway
- 51 Driving on Wrong Side of **Two-Way Trafficway** (Intentional or Unintentional)
- \*52 Operator Inexperience
- \*53 Unfamiliar with Roadway
- 54 Stopped in Roadway (Vehicle Not Abandoned)
- \*57 Locked Wheel
- 58 Overcorrecting
- 59 Getting Off/Out of or On/In to a Vehicle

**Special Circumstances:**

- \*73 Driver Has Not Complied With Learner's Permit or Intermediate Driver License Restrictions (GDL Restrictions)
- \*74 Driver Has Not Complied With Physical or Other Imposed Restrictions (not including GDL Restrictions)
- \*89 Driver has a Driving Record or Driver's License from More Than One State
- 91 Non-Traffic Violation Charged (manslaughter, homicide, or other assault offense committed without malice)

**Skidding, Swerving, Sliding Due To:**

- \*77 Severe Crosswind
- \*78 Wind From Passing Truck
- \*79 Slippery or Loose Surface
- \*80 Tire Blowout or Flat
- \*81 Debris or Objects in Road
- \*82 Ruts, Holes, Bumps in Road
- \*83 Live Animals in Road
- \*84 Vehicle in Road
- \*85 Phantom Vehicle
- \*86 Pedestrian, Pedal Cyclist, or Other Non-Motorist
- \*87 Ice, Snow, Slush, Water, Sand, Dirt, Oil, Wet Leaves on Road
- \*88 Trailer Fishtailing or Swaying
- 99 Unknown

**\* FARS ONLY ATTRIBUTES**

**Definition:** This element identifies factors related to this driver expressed by the investigating officer.

**Remarks:**

<b><u>Related Factors</u></b>		<b><u>Driver Violations Cited or Noted by Police</u></b>	<b><u>Examples/Notes</u></b>
<b>00</b>	Blanks None		
<b><u>Physical/Mental Condition</u></b>			
<b>06</b>	Careless Driving	Careless Driving	Driving Without Due Care; Operating vehicle in careless manner.
<b>08</b>	Aggressive Driving / Road Rage	Aggressive Driving	Officer must use the term "Aggressive" in describing this driver's behavior. Can be indicated in the report under related/contributing factors, violations charged or in the narrative. You may encounter the term "Road Rage" used to describe aggressive driving behavior. The two terms are not technically interchangeable but both will be coded here.
<b>*13</b>	Mentally Challenged		Mental illness/ <b><i>intellectual developmental disorder</i></b> may be included.
<b>*04</b>	Reaction to or Failure to Take Drugs/Medication		Allergic reaction to medication/drugs. Reaction to drug interaction (over the counter and/or prescribed). Failure to take required medication.
<b>*12</b>	Mother of Dead Fetus/Mother of Infant Born Post Crash		Fetus dies in or as a result of this crash.

<u>Related Factors</u>		<u>Driver Violations Cited or Noted by Police</u>	<u>Examples/Notes</u>
<b>Miscellaneous Factors:</b>			
*15	Seat Back Not In Normal Upright Position, Seat Back Reclined		
18	Traveling on Prohibited Trafficways		Driving on prohibited trafficway/roadway (example: mopeds on interstate). Trucks prohibited on this trafficway.
*19	Legally Driving on Suspended or Revoked License		Individual with suspended/revoked license allowed to drive only to and from work. License restricted/occupational license issued. Modification of conditions/restrictions.
20	Leaving Vehicle Unattended with Engine Running. Leaving Vehicle Unattended in Roadway.	Parked double. Parked on bridge, tunnel. Parking within intersection.	<b><i>This attribute is intended to identify improper actions where a vehicle is left in a location intentionally by the driver and the driver is not present in or in close proximity to the vehicle.</i></b>
21	Overloading or Improper Loading of Vehicle With Passengers or Cargo	Unsecured or uncovered load violation.	Having more than 3 passengers in the front seat. Trunk open with extra large cargo protruding. Sitting/standing on rails, tailgate of pickup or improperly sitting in bed of pickup. Overweight/over length/oversize.
22	Towing or Pushing Improperly	Push vehicle in dangerous manner.	Towing with improper connection (e.g., only a cable, etc.) Using vehicle to push another vehicle.

<u><b>Related Factors</b></u>		<u><b>Driver Violations Cited or Noted by Police</b></u>	<u><b>Examples/Notes</b></u>
<b>23</b>	Failure to Dim Lights or to Have Lights on When Required	Fail to use proper headlight beam. Fail to dim headlights for, approaching vehicle, when following another. Using fog lights when prohibited.	Headlamps adjusted improperly, causing glare. Failing to have headlights on in tunnels. Motorcycle not using lights as required.
<b>24</b>	Operating Without Required Equipment	Defective or no lamps, brakes, mirrors, muffler, flares, wipers, horn, snow tires, chains, etc.	May be used for failure to use restraints, child safety seat or no motorcycle helmets <u>ONLY</u> if officer makes an issue that it is a factor in this case. Not for PAR box marked "not used." Not to be used simply if PAR Restraint Use box is marked "Not Used". For vehicles that : <ul style="list-style-type: none"> <li>• Do not have extended side mirrors when required (e.g. pulling a trailer)</li> <li>• Required snow tires</li> <li>• Seatbelts have been removed from the vehicle</li> <li>• Failure to use headlights or fog lamps</li> <li>• Airbag was not reinstalled</li> </ul>
<b>*26</b>	Following Improperly	Following fire truck too closely. Failure to maintain safe passing distance between trucks. Following vehicles in caravan too closely to allow entry. Following too close, generally.	Following too closely for weather conditions. <b>NOTE:</b> Improper Lane Change signifies "in the process," while <b>26 (Following Improperly)</b> denotes "after or before the process of lane change."
<b>*27</b>	Improper or Erratic Lane Changing	Unsafe lane change. Failure to obey "no lane change" sign.	Weaving in and out of traffic.

<u>Related Factors</u>		<u>Driver Violations Cited or Noted by Police</u>	<u>Examples/Notes</u>
*28	Failure to Keep in Proper Lane	Trucks and buses, slower vehicles to keep right.	<p>Vehicle crosses centerline and strikes oncoming vehicle. Indication of “drove left of center” which includes 2 lane roadways where no painted centerline is present.</p> <p>Vehicle going straight in turn lane. Vehicle using more than one lane on its side of a multi-lane highway. Does not apply to vehicles that run off the roadway or that cross the median.</p> <p>Also does not apply when a vehicle leaves its lane because of a previous impact.</p> <p>See <b>51 (Driving on Wrong Side of Two-Way Trafficway [Intentional or Unintentional])</b> for Driving on Wrong Side of Road.</p>
*29	<b><i>Intentional</i></b> Illegal Driving on Road Shoulder, in Ditch, on Sidewalk or on Median		<p>Example: Driving on the shoulder <b><u>to avoid</u></b> stopped traffic and striking a pedestrian walking on the shoulder.</p> <p><b><u>Intentionally</u></b> driving on shoulder, median, roadside, etc.</p> <p><b><u>Not to be used as an avoidance maneuver</u></b> or as a result of a critical or harmful event.</p> <p><b><u>Note:</u></b> <i>This attribute is for vehicles that <u>purposely</u> drive on the road shoulder, in the ditch, on the sidewalk or on the median. This <u>does not</u> refer to vehicles that unintentionally drive off the road. Be aware that the case materials may incorrectly identify the vehicle's action.</i></p>

<u><b>Related Factors</b></u>		<u><b>Driver Violations Cited or Noted by Police</b></u>	<u><b>Examples/Notes</b></u>
*30	Making Improper Entry To or Exit From Trafficway	Driving onto or from controlled access highway where prohibited.	Entering highway from adjacent pasture, field. Entering highway on exit ramp, or exiting on entrance ramp, going the wrong way. <b>NOTE:</b> Don't confuse with 51 ( <b>Driving on Wrong Side of Two-Way Trafficway [Intentional or Unintentional]</b> )
*31	Starting or Backing Improperly	Unsafe start from parked position.	Backing up on one-way. Starting onto highway from parked position on shoulder.
32	Opening Closure into Moving Traffic or While Vehicle is in Motion	Opening door into moving traffic.	Opening trunk while vehicle is in motion.
*33	Passing Where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or School Bus Displaying Warning Not to <b>Pass</b>	Overtaking streetcar on left or right. Overtaking vehicle stopped to allow pedestrian movement.	Passing stopped school bus. Crossing over solid line to pass. Passing uphill; mainly violations as designated by traffic controls.
*34	Passing on Wrong Side	Passing on right prohibited.	Passing on right. Passing on right shoulder, emergency lane, or roadside.
*35	Passing With Insufficient Distance, or Inadequate Visibility, or Failing to Yield to Overtaking Vehicle	Passing with insufficient sight distance.	Mainly passing violations based on faulty judgment.
36	Operating the Vehicle in an Erratic, Reckless or Negligent Manner Operating at Erratic or Suddenly Changing Speeds	Driving to endanger, willful or wanton disregard. Reckless driving reduced from DUI.	Must be explicitly stated on police record. Acceleration followed by sudden braking.

<u>Related Factors</u>		<u>Driver Violations Cited or Noted by Police</u>	<u>Examples/Notes</u>
16	Police or Law Enforcement Officer		Federal, state or local law enforcement officer working at the time of the crash. Includes military and park police, border patrol and all other sworn law enforcement officers.
37	Police Pursuing This Driver or Police Officer in Pursuit	Fleeing or attempting to elude police officer.	"Hot pursuit." This officer in pursuit of motorists or this motorist being pursued by police.
*38	Failure to Yield Right-of-Way	Failure to yield to pedestrian. Failure to yield to emergency vehicles. Failure to yield to streetcar already in intersection.	Primarily intersection-related. Care should be used to distinguish yield violations from lane violations.
*39	Failure to Obey Actual Traffic Signs, Traffic Control Devices or Traffic Officers. Failure to Obey Safety Zone Traffic Laws.	Failure to obey flashing signal. Violation of turn on red. Failure to obey lane use control signal. Failure to obey stop signs. Failure to obey yield sign.	Often times incorrectly coded in conjunction with 38 ( <b>Failure to Yield Right-of-Way</b> ). Care must be used to distinguish from 38 ( <b>Failure to Yield Right-of-Way</b> ). When vehicle does not stop when required by traffic control. When vehicle stops, but fails to yield, code 38 ( <b>Failure to Yield Right-of-Way</b> ) (4-way stops). Violating yield sign, code as 38 ( <b>Failure to Yield Right-of-Way</b> ) and 39 ( <b>Failure to Obey Actual Traffic Signs, Traffic Control Devices or Traffic Officers. Failure to Obey Safety Zone Traffic Laws</b> ). Passing around railroad gates.

<u><b>Related Factors</b></u>		<u><b>Driver Violations Cited or Noted by Police</b></u>	<u><b>Examples/Notes</b></u>
*40	Passing Through or Around Barrier	Driving in prohibited area (play street, construction, etc.).	Denotes “demarcated” area.
*41	Failure to Observe Warnings or Instructions on Vehicles Displaying Them		Failure to follow construction instructions (e.g., arrows directing traffic mounted on vehicle), instructions on emergency vehicles (ambulances, fire trucks, police cars). Failure to observe right-turn warning on trucks, buses. Failure to heed hazard lights on disabled vehicle, school bus arm.
*42	Failure to Signal Intentions	Failure to sound horn at curve on mountain road. Failure to signal upon stopping to turn.	Failure to signal by either lamp turn signal or hand.
*45	Driving Less Than Posted Minimum		Driving too slowly, so as to impede traffic.
*47	Making Right Turn From Left-Turn Lane, Left Turn from Right-Turn Lane		To distinguish from <b>27 (Improper or Erratic Lane Changing)</b> police officer must have knowledge of driver's intention.
*48	Making Other Improper Turn	Too wide right or left turn. Unsafe U-turn (from shoulder, etc.).	To distinguish from <b>39 (Failure to Obey Actual Traffic Signs, Traffic Control Devices or Traffic Officers. Failure to Obey Safety Zone Traffic Laws)</b> implies judgment-oriented actions, not those explicitly stated by the law. (Too wide at right or left turn unsafe U-turn.)

<u>Related Factors</u>		<u>Driver Violations Cited or Noted by Police</u>	<u>Examples/Notes</u>
50	Driving Wrong Way on One-Way Trafficway		To distinguish from <b>51 (Driving on Wrong Side of Two-Way Trafficway [Intentional or Unintentional])</b> On a divided highway, although each side is “one-way,” driving against traffic should be coded as <b>51 (Driving on Wrong Side of Two-Way Trafficway [Intentional or Unintentional])</b> not <b>50 (Driving Wrong Way on One-Way Traffic)</b> .
51	Driving on Wrong Side of <b>Two-Way Trafficway</b> (Intentional or Unintentional)	Driving on wrong side of highway.	Driving wrong way on Rotary Intersection. Driving on left half of approaching bridge, tunnel. To distinguish from <b>28 (Failure to keep in proper lane)</b> when a vehicle loses control and crosses the centerline of an undivided highway, it is coded as 28 not 51. <b>For passing on the left of a double-yellow centerline, use attribute 33 (Passing Where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or School Bus Displaying Warning Not to Pass Line)</b>
*52	Operator Inexperience		New drivers, new truck/bus driver; based on the judgment of the police officer. Unfamiliar with vehicle.
*53	Unfamiliar with Roadway		Possibly out-of-state licenses. New stretch of road, based on the judgment of the police officer.

<u>Related Factors</u>		<u>Driver Violations Cited or Noted by Police</u>	<u>Examples/Notes</u>
54	Stopped in Roadway (Vehicle Not Abandoned)		<i>This attribute is intended to identify an unusual condition where a vehicle is stopped in the roadway with the driver present in or in close proximity to the vehicle. It includes both a vehicle in the process of stopping and "stopped" vehicles. Examples include a vehicle disabled in a prior crash, a vehicle with a flat tire, a vehicle that stops for debris in the roadway, etc. It excludes typical "stopping" situations such as stopping in/for traffic, waiting to turn, or stopping for a traffic control.</i>
*57	Locked Wheel		Occurs when braking too suddenly as noted by police officer. Can't be inferred just from skid marks.
58	Overcorrecting		Based on the judgment of the police officer, with knowledge of driver's intention. Oversteering
59	Getting Off/Out of or On/In to a Vehicle		Applies for either moving or non-moving vehicles. To distinguish from <b>32 (Opening Closure into Moving Traffic or While Vehicle is in Motion)</b> . This attribute takes precedence, not to be coded in conjunction with <b>32 (Opening Closure into Moving Traffic or While Vehicle is in Motion)</b> .

<u>Related Factors</u>		<u>Driver Violations Cited or Noted by Police</u>	<u>Examples/Notes</u>
<b><u>Skidding, Swerving, Sliding Due To:</u></b>			
*77	Severe Crosswind		
*78	Wind From Passing Truck		
*79	Slippery or Loose Surface		Refers to actual condition of roadway surface, e.g., loose gravel roadway. Slippery or old worn blacktop. Newly paved surface.
*80	Tire Blowout or Flat		
*81	Debris or Objects in Road		Nails, glass, trash cans, tire retread, trash, dead animals, pile of sand, barricades, etc.
*82	Ruts, Holes, Bumps in Road		
*83	Live Animals in Road		
*84	Vehicle in Road		Includes both contact and non-contact vehicles that remain at the scene.
*85	Phantom Vehicle		Non-contact vehicle that leaves the scene as described by the police officer.
*86	Pedestrian, Pedal Cyclist, or Other Non-Motorist		

<u><b>Related Factors</b></u>		<u><b>Driver Violations Cited or Noted by Police</b></u>	<u><b>Examples/Notes</b></u>
*87	Ice, Snow, Slush, Water, Sand, Dirt, Oil, Wet Leaves on Road		<p>This is for the substances on roadway that causes roadway to be slick, which may interfere with traction.</p> <p>These are not part of the roadway design (see <b>79 (Slippery or Loose Surface)</b>).</p>
*88	Trailer Fishtailing or Swaying		<p>Describes where a trailer fishtails or sways causing vehicle to weave in traffic or swerve.</p> <p>Includes trucks &amp; cars pulling a trailer.</p> <p>This may or may not result in a jackknife.</p>
<u><b>Special Circumstances</b></u>			
*73	Driver Has Not Complied With Learner's Permit or Intermediate Driver License Restrictions (GDL Restrictions)		<p>Learner's/Intermediate nighttime restrictions (e.g., midnight – 6 AM).</p> <p>Learner's/Intermediate unsupervised driving restrictions.</p> <p>Learner's/Intermediate passenger restriction.</p> <p>Mandatory Seat Belt Use Restriction.</p>
*74	Driver Has Not Complied With Physical or Other Imposed Restrictions (not including GDL Restrictions)		<p>Driving without corrective lenses when required.</p> <p>Driving without required equipment (e.g., automatic transmission, adaptive controls, etc.).</p> <p>Violating special privileges on a suspended/revoked license for other than permitted activities (e.g., driving permitted only to and from work). Not to be used for general "driving on a suspended or revoked license".</p> <p>Driving vehicle without "Interlock System" when required.</p>

<u><b>Related Factors</b></u>		<u><b>Driver Violations Cited or Noted by Police</b></u>	<u><b>Examples/Notes</b></u>
*89	Driver has a Driving Record or Driver's License from More Than One State		Any combination of a state license or record. Regardless of the status of the license or the driving privilege.
91	Non-Traffic Violation Charged (manslaughter, homicide, or other assault offense committed without malice)		"Criminal" charges such as: <ul style="list-style-type: none"><li>• Driver charged with intoxicated assault.</li><li>• Driver charged with vehicular manslaughter.</li></ul>
99	Unknown		

#### **\*FARS ONLY ATTRIBUTES**

##### **Remarks:**

**Code information provided in the narrative by the investigating officer. It is the officer's assessment.**

This is a nominal list only and does NOT imply a hierarchy.

**NOTE: RELATED FACTORS-DRIVER LEVEL SHOULD BE CODED ONLY FOR THE DRIVER'S OF "IN-TRANSPORT VEHICLES" (UNIT TYPE "1").**

**RELATED FACTORS FOR ALL OTHER MOTOR VEHICLE OCCUPANTS SHOULD BE CODED UNDER RELATED FACTORS-PERSON (MV OCCUPANT) LEVEL (INCLUDING ALL OCCUPANTS IN UNIT TYPES "2, 3 AND 4".)**

##### **Use of 00 (None)**

Use when no factors are noted; zero-fill all fields. **00 (None)** implies that the investigating officer indicated "no factors." Also, use **00 (None)** to complete remaining fields when you will be recording less than four related factors. DO NOT leave any remaining fields blank.

##### **Use of 99 (Unknown)**

Use when the circumstances surrounding the crash are unknown and reported as "unknown" by the investigating officer. In these circumstances, nine-fill all fields. If **Unknown** is used for any field, ALL fields must be **99 (Unknown)**. DO NOT leave any remaining fields blank. **Also use this attribute for Hit and Run vehicles and drivers when no factors are identified or reported by the officer for this vehicle or driver.**

### **FARS SPECIAL INSTRUCTION:**

In a case involving Police Pursuit, **37 (Police Pursuing This Driver or Police Officer in Pursuit)** should be used when pursuit has been initiated by police and is active at the time of the crash (also see Related Factors-Crash Level, for use of **20 (Police Pursuit Involved)**). It can be used for either the pursued driver or the pursuing police officer.

**Definition of Police Pursuit:** A pursuit is an event that is initiated when a law enforcement officer, operating an authorized emergency vehicle, gives notice to stop (either through the use of visual or audible emergency signals or a combination of emergency devices) to a motorist who the officer is attempting to apprehend, and that motorist fails to comply with the signal by either maintaining his/her speed, increasing speed, or taking other evasive action to elude the officer's continued attempts to stop the motorist. A pursuit is terminated when the motorist stops, or when the attempt to apprehend is discontinued by the officer or at the direction of a competent authority.

**73 (Driver Has Not Complied With Learner's Permit or Intermediate Driver License Restrictions [GDL Restrictions])** is used to indicate that a young driver was not in compliance with a Learner's Permit or Intermediate Driver License restriction under a state's Graduated Driver's License (GDL) program. (See table for examples.) This should not be used for restrictions for eyeglasses, lenses, equipment or other physical restrictions (see **73 (Driver Has Not Complied With Other Imposed Restrictions [not including GDL Restrictions])**). Call Coding Assistance Program for coding guidance and see FARShelf for examples.

### **Consistency Checks:**

IF	THEN
(1L0P) any RELATED FACTORS-DRIVER LEVEL equals blanks,	all RELATED FACTORS-DRIVER LEVEL must equal blanks.
(2H0F) DRIVER PRESENCE equals 0, 9,	RELATED FACTORS-DRIVER LEVEL must not equal 04, 08, 12, 13, 15, 16, 19, 52, 53, 58, 59, 73, 74, 77-88. then all RELATED FACTORS-DRIVER LEVEL must equal 99.
(2L0P) any RELATED FACTORS-DRIVER LEVEL equal 99,	then all RELATED FACTORS-DRIVER LEVEL must equal 99.
(3L0P) any RELATED FACTORS-DRIVER LEVEL equals 00,	all remaining RELATED FACTORS-DRIVER LEVEL must equal 00.
(5L0F) RELATED FACTORS-DRIVER LEVEL equals 20,	DRIVER PRESENCE must not equal 1, 9.
(5L1F) RELATED FACTORS-DRIVER LEVEL equals 04, 08, 12, 13, 15, 16, 19, 52, 53, 58, 59, 73, 74, 77-88,	DRIVER PRESENCE must not equal 0 or 9.
(6K0P) VIOLATION CHARGED equals 71,	RELATED FACTORS-DRIVER LEVEL must not equal 19.

	IF	THEN
(7L0P)	Any RELATED FACTORS-DRIVER LEVEL can be used only once per driver form.	
(9L0F)	PERSON TYPE equals 01, and RELATED FACTORS-DRIVER LEVEL equals 12,	SEX must equal 2, and AGE must be greater than 012.
(A080)	DRIVER PRESENCE equals 0, and FIRST HARMFUL EVENT equals 12, and NUMBER OF VEHICLE FORMS SUBMITTED equals 002,	one RELATED FACTORS-DRIVER LEVEL should equal 20.
(D470)	any RELATED FACTORS-DRIVER LEVEL equals 37,	at least one RELATED FACTORS-CRASH LEVEL should equal 20.

**Consistency Checks (FARS ONLY):**

	IF	THEN
(6L0P)	COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 19,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE must equal 3.
(7I0P)	COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 19,	NON-CDL LICENSE STATUS must equal 6.
(8I0P)	NON-CDL LICENSE STATUS equals 0-4, 9,	RELATED FACTORS-DRIVER LEVEL must not equal 19.
(8J2P)	RELATED FACTORS-DRIVER LEVEL equals 73, 74,	COMPLIANCE WITH LICENSE RESTRICTIONS must equal 2.
(8L0P)	LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0-2, 9,	RELATED FACTORS-DRIVER LEVEL must not equal 19.
(BL0P)	COMPLIANCE WITH CDL ENDORSEMENTS equals 1, and any RELATED FACTORS-DRIVER LEVEL equals 19,	LICENSE COMPLIANCE WITH CLASS OF VEHICLE must equal 3.
(D080)	VIOLATION CHARGED equals 01-06, 09, 31-69, 81-91, 98,	RELATED FACTORS-DRIVER LEVEL should not all equal 00, 99.
(D690)	NON-CDL LICENSE TYPE equals 2, 7, and COMPLIANCE WITH LICENSE RESTRICTIONS equals 2,	RELATED FACTORS-DRIVER LEVEL should equal 73, 74.
(D700)	NON-CDL LICENSE TYPE equals 1, and COMPLIANCE WITH LICENSE RESTRICTIONS equals 2,	RELATED FACTORS-DRIVER LEVEL should equal 74.

	<b>IF</b>	<b>THEN</b>
(D730)	RELATED FACTORS-DRIVER LEVEL equals 73,	COMPLIANCE WITH LICENSE RESTRICTIONS should equal 2, and NON-CDL LICENSE TYPE should equal 2, 7.
(V100)	HM1 equals 2, and RELATED FACTORS-DRIVER LEVEL does not equal 19,	COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 01, 02, 05.
(V16P)	RELATED FACTORS-DRIVER LEVEL equals 88,	VEHICLE TRAILING must not equal 0, 9.

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## **PRECRASH DATA OVERVIEW**

Precrash data elements are completed for each of the in-transport vehicles in the case. This means that the entire crash is first completed from the perspective of one vehicle, then from the perspective of a second vehicle, if any, and so forth. The precrash data elements are:

Driver Distracted By,  
Pre-Event Movement (Prior to Recognition of Critical Event),  
Critical Precrash Category,  
Critical Precrash Event,  
Attempted Avoidance Maneuver,  
Pre-Impact Stability,  
Pre-Impact Location,  
Crash Type

The precrash data elements are designed to identify the following:

what was this vehicle doing just prior to the critical precrash event,  
what made this vehicle's situation critical,  
what was the avoidance response, if any, to this critical situation, and  
what was the movement of the vehicle just prior to impact?

The most important determination that must be made for each in-transport vehicle is: what was this vehicle's Critical Precrash Event, (i.e., what action by this vehicle, another vehicle, person, animal, or non-fixed object was critical to this vehicle's crash?). Once the critical event is determined, the remaining precrash data elements are coded relative to this selected **Critical Precrash Event**.

Do not consider culpability as a factor for determining precrash data. Many crash scenarios will suggest fault, but this is considered coincidental rather than by design.

### **Critical Crash Envelope**

The critical crash envelope begins at the point where:

- (1) the driver recognizes an impending danger (e.g., deer runs into the roadway), or
- (2) the vehicle is in an imminent path of collision with another vehicle, pedestrian, pedalcyclist, other non-motorist, object, or animal.

The critical crash envelope ends when:

- (1) (a) the driver has made a successful avoidance maneuver, and  
(b) has full steering control, and  
(c) the vehicle is tracking; or
- (2) the driver's vehicle impacts another vehicle, pedestrian, pedalcyclist, other non-motorist, object or animal.

### Simple Single Critical Crash Envelope

Most crashes involve only a single critical crash envelope in which the object contacted is captured under the Critical Precrash Event, (e.g., a vehicle is traveling straight on a roadway and a deer runs into the roadway and is struck by the vehicle). This scenario, and similar ones, are very straightforward and will not present many problems.

### Complex Single Critical Crash Envelope

However, some single critical crash envelopes are more complex.

**Example A:** A driver avoids one obstacle and immediately impacts another vehicle, person, object, or animal. Because immediate is defined as not having an opportunity, or sufficient time, to take any additional avoidance actions, the Critical Precrash Event is related to the vehicle, person, object, or animal which the driver successfully avoided instead of the vehicle's first harmful event (*i.e.*, its impact); see examples 3 and 5 below.

**Example B:** The driver avoids an obstacle only to (a) lose steering control and/or (b) have the vehicle stop tracking, and the vehicle subsequently impacts another vehicle, person, object, or animal. Regardless of whether the driver:

- 1) attempted to regain steering control
- 2) caused the vehicle to resume a tracking posture or
- 3) avoided the impacted vehicle, person, object, or animal,

the Critical Precrash Event is similarly related to the vehicle, person, object or animal which the driver successfully avoided because the driver's critical crash envelope was never stabilized.

In both examples above, the Attempted Avoidance Maneuver records the successful action taken to avoid the Critical Precrash Event.

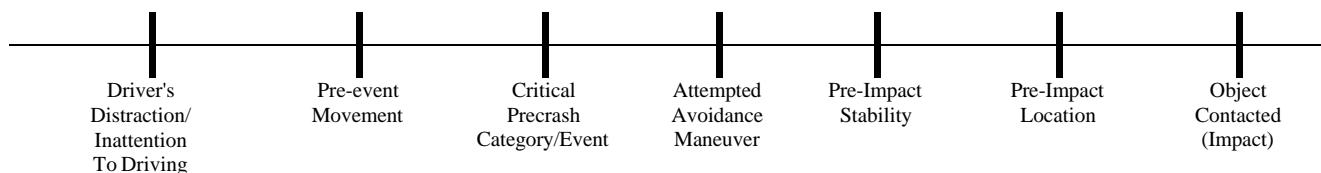
Vehicles that are not involved in an impact with another vehicle, person, object, or animal in the sequence of crash events (that define this crash) are not included.

The coding order for a single critical crash envelope is illustrated below.

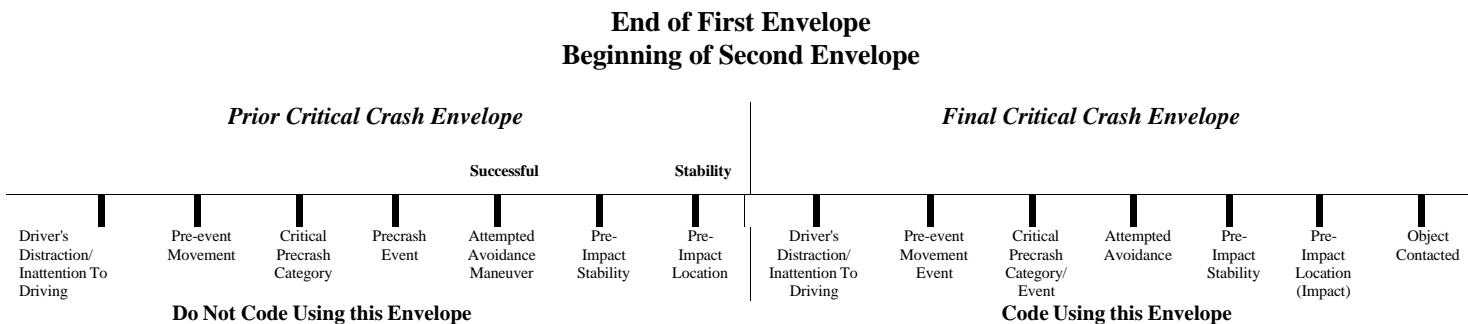
## Multiple Critical Crash Envelopes

When a case involves multiple critical crash envelopes, select only the final critical crash envelope. In this situation, encode the element Pre-Event Movement (Prior to Recognition of Critical Event) as: **Successful avoidance maneuver to a previous critical event**. The final critical crash envelope is the one that resulted in this vehicle's first harmful event (*i.e.*, its impact) as shown in the following illustration.

Typical Order of a Single Critical Crash Envelope



Typical Order of Multiple Critical Crash Envelopes



When there is doubt as to whether this vehicle had experienced a complex single, or multiple critical crash envelopes, choose the Critical Precrash Category/Event, to the vehicle, person, object, or animal which the driver successfully avoided (*i.e.*, default to Complex Single). See Complex Single Critical Crash Envelope examples A and B above.

The following pages have: a method protocol, a flowchart illustrating the proper method and protocol for determining the precrash data elements, and seven examples of various crash event sequences which contain one or more critical crash envelopes.

## **Method Protocol**

Consider the information obtained from the Police Report, and any supplemental documents as inputs to your decision making process.

### 1. Determine Critical Precrash Category / Critical Precrash Event.

What action by this vehicle, another vehicle, person, animal, or object was critical to this driver becoming involved in the crash (i.e., use the "**BUT FOR**"\* test)?

ASK yourself questions (a) through (f) below. Proceed through each question that applies to the crash you are researching. Stop when the answer to the questions is "Yes". This is the Critical Precrash Category.

- (a) Did the vehicle exhibit a control loss?
- (b) Does the evidence suggest that the vehicle was in an environmentally dangerous position?
- (c) Was another vehicle "in" this vehicle's lane?
- (d) Was another vehicle entering into this vehicle's lane?
- (e) Was a pedestrian, pedalcyclist, or other non-motorist in or approaching this vehicle's path?
- (f) Was an animal in or approaching this vehicle's path or was an object in this vehicle's path?

### 2. Determine Driver Distracted By

### 3. Pre-Event Movement (Prior to Recognition of Critical Event).

### 4. Determine Attempted Avoidance Maneuver.

What does your information indicate that the driver tried to do to avoid the crash?

### 5. Determine Pre-Impact Stability

### 6. Determine Pre-Impact Location

#### **\* FOR EXAMPLE:**

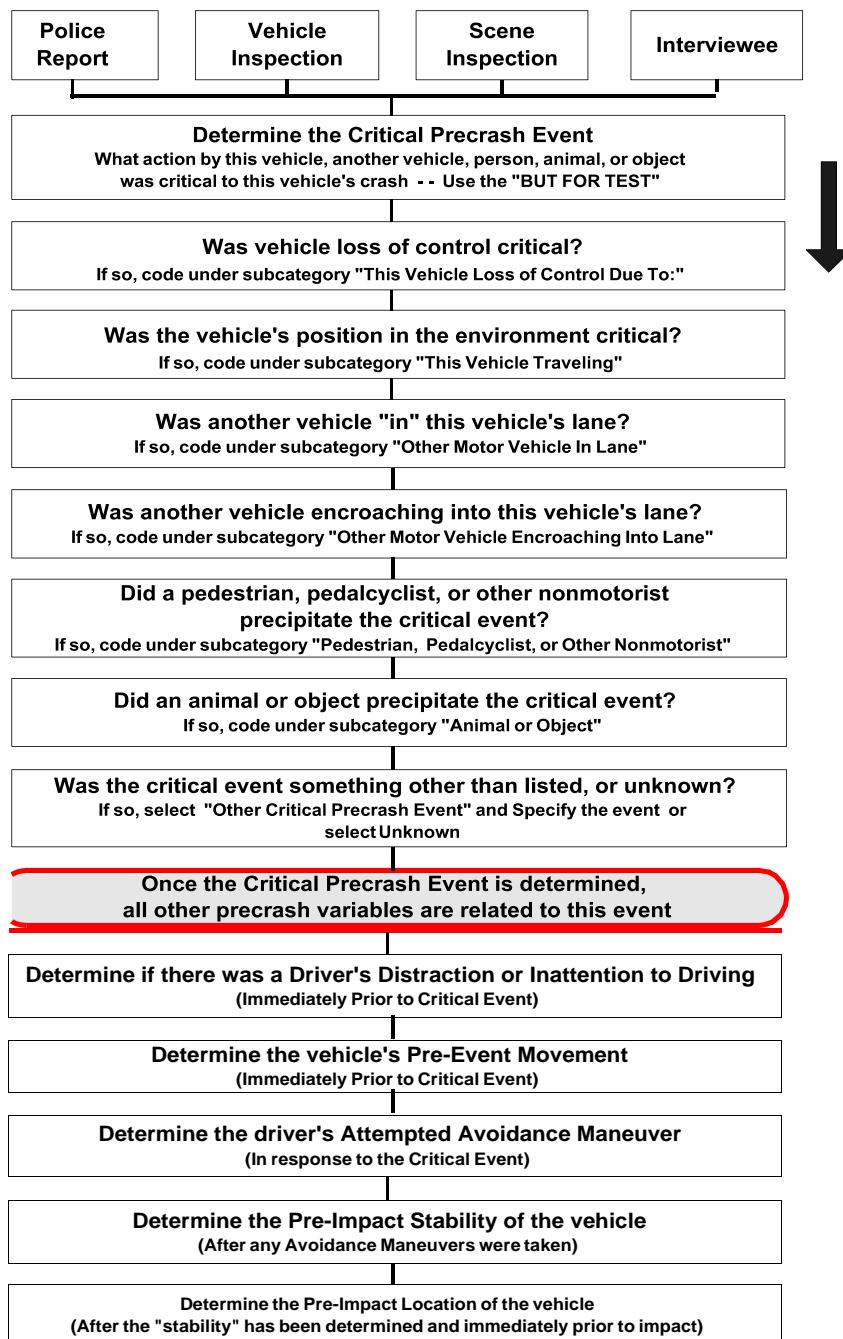
**"But for"** Vehicle # going left-of-center, this vehicle would not have been involved in this crash.

**"But for"** having entered into the intersection, this vehicle would not have been involved in this crash.

## Precrash Methodology Flowchart

\* FOR EXAMPLE :

"**But for**" Vehicle # going left-of-center, this vehicle would not have been involved in this crash.



## Precrash General Rules

1. Attempted Avoidance Maneuver assesses what the driver's action(s) was during the critical crash envelope in response to his/her realization of impending danger.
2. The mere presence of a traffic control signal/sign typically does not make the situation critical when determining Critical Precrash Event.

For example: A single vehicle approaches a stop sign and departs the right side of the road impacting a tree, in an attempt to avoid passing through the intersection. The sign has no bearing and therefore, does not make the situation critical.

3. When you know the Critical Precrash Category, but are unable to select a specific Critical Precrash Event, use the following guideline:

Default to one of the "Other" or "Unknown" attributes within each Critical Precrash Event category, rather than coding the entire Critical Precrash Category as "Other critical precrash event".

4. If control is loss due to driver illness such as heart attacks, diabetic comas, etc., then Critical Precrash Event should be coded as "Other cause of control loss."
5. When coding Critical Precrash Category as "This vehicle loss of control", the loss of control must have occurred prior to the driver doing any avoidance maneuver. If the driver attempts a maneuver (i.e., brakes, steers, etc.) as a result of the driver's perception of a vehicle, object, pedestrian, or non-motorist, then select the vehicle, object, pedestrian, or non-motorist as the critical event because that is what made the situation critical. If the vehicle is in a yaw prior to the driver taking an avoidance action, then loss-of-control is what made it critical (e.g., critical curve scuff, hydroplaning, etc.).
6. When determining Critical Precrash Category/Event if you do not know from available sources which driver had the right-of-way at a controlled or uncontrolled intersection, then use the following as a guideline:
  - a. If the junction is controlled by a 3-way / 4-way stop sign, or is uncontrolled, then use the common rule that the vehicle on the right has the right-of-way for determining encroachment.
  - b. If the junction is controlled by an on-colors traffic control device, and both drivers claim a green light, then both vehicles are in an environmentally dangerous position, and Critical Precrash Event for both vehicles should be **This Vehicle Traveling** (Critical Precrash category) Crossing over (passing through) intersection (Critical Precrash Event).

7. When two vehicles are initially traveling on the same trafficway and one executes a left turn with the right-of-way (i.e. green arrow), use **Other Motor Vehicle Encroaching Into Lane - From opposite direction-over right lane line** for the turning vehicle's critical event. This applies to Crash Types 68, 69.

If the vehicles were initially on different trafficways (Crash Types 76, 77 and 82, 83) the critical event for the vehicle turning left with the right-of-way should be **Other Motor Vehicle Encroaching - From crossing street across path**.

8. "Fixed" objects (e.g., trees, poles, fire hydrants, etc.,) cannot be in the roadway.
9. A motor vehicle is stopped in a travel lane and is impacted by another motor vehicle ricocheting off a vehicle. The Critical Precrash Event for the vehicle stuck by the ricocheting vehicle is in the category of either: **Other Motor Vehicle In Lane** or **Other Motor Vehicle Encroaching Into Lane**.
10. Pre-Impact stability should be indicated as "**Tracking**" if the following are met:
  - a. no skid marks are present on the diagram or mentioned in the narrative.
  - b. the case materials do not indicate skidding **AND**
  - c. the vehicle did not rotate 30 degrees or more (either clockwise or counterclockwise).

Trafficway and its component definitions (i.e., roadway, road, shoulder and median) can be found in the ANSI D16.1 Manual on the Classification of Motor Vehicle Traffic Accidents.

## Example 1

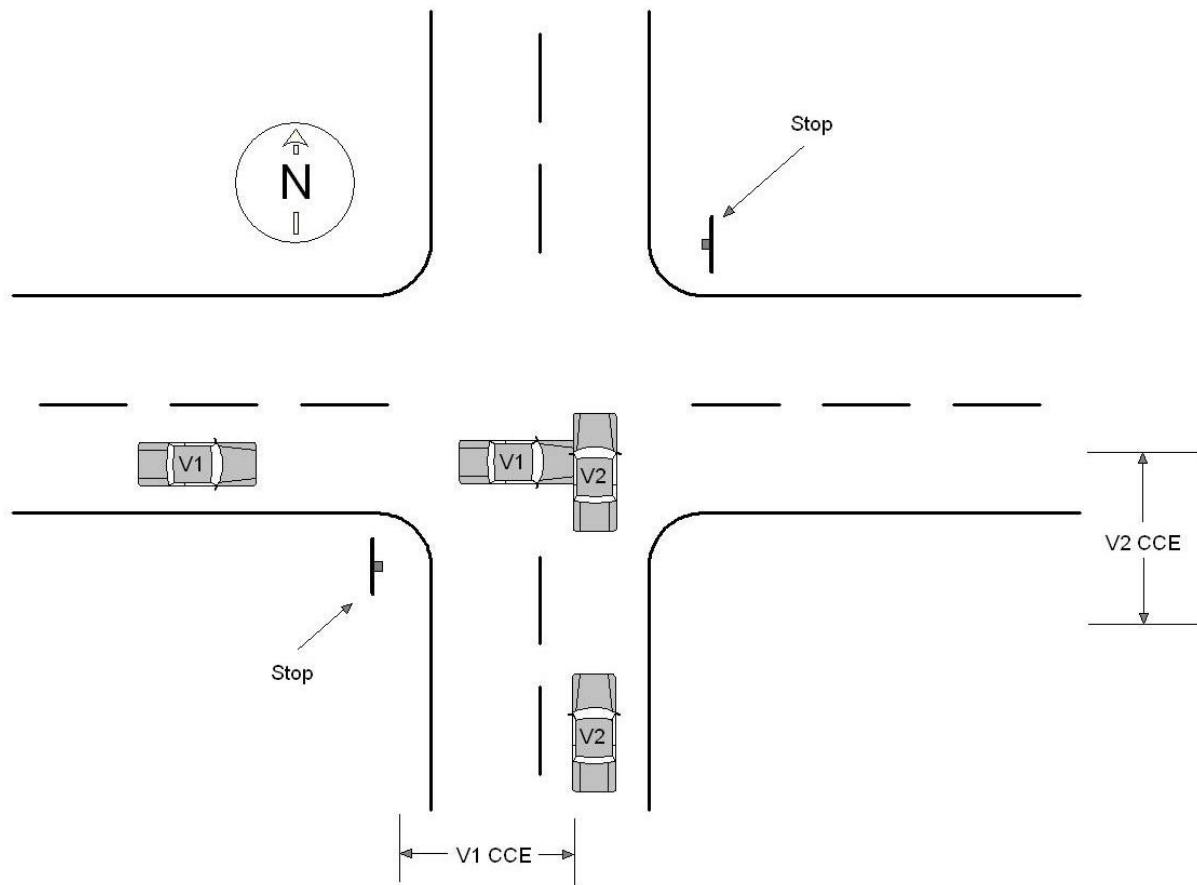
Vehicle 2 is northbound and passing through an intersection on a roadway without a traffic control. The driver of vehicle 1 is dialing on a cellular phone. Vehicle 1 is eastbound on a crossing roadway with a stop sign but did not see it. Driver of Vehicle 2 was attentive but did not see Vehicle 1 approaching. Vehicle 1 crashes into the side of vehicle 2. Vehicle 1 braked (leaving skid marks) just prior to impact, without any steering.

	<b>Vehicle 1</b>	<b>Vehicle 2</b>
Driver Distracted By	(Distractions) while manipulating cellular phone	Looked but did not see
Pre-Event Movement	Going straight	Going straight
Critical Pre-Crash (Category)	This Vehicle Traveling	Other motor vehicle encroaching into lane
Critical Pre-Crash (Event)	Crossing over (passing through) intersection	From crossing street, across path
Attempted Avoidance Maneuver	Braking (lockup)	No avoidance maneuver
Pre-Impact Stability	Skidding longitudinally - rotation less than 30 degrees	Tracking
Pre-Impact Location	Stayed in original travel lane	Stayed in original travel lane
Crash Type	88	89

In this example, vehicle 1 has one **critical crash envelope** (V<sub>1</sub>CCE) which begins at the point where driver 1 recognizes that vehicle 1 is in an imminent collision path with vehicle 2. Vehicle 1's critical crash envelope ends at the point of impact with vehicle 2.

Vehicle 2 has one **critical crash envelope** (V<sub>2</sub>CCE). Although the driver of vehicle 2 did not recognize the danger, vehicle 2's critical crash envelope begins at the point where vehicle 2 is in an imminent path of collision with vehicle 1. Vehicle 2's critical crash envelope ends at the point of impact with vehicle 1.

### Example 1 (Diagram)



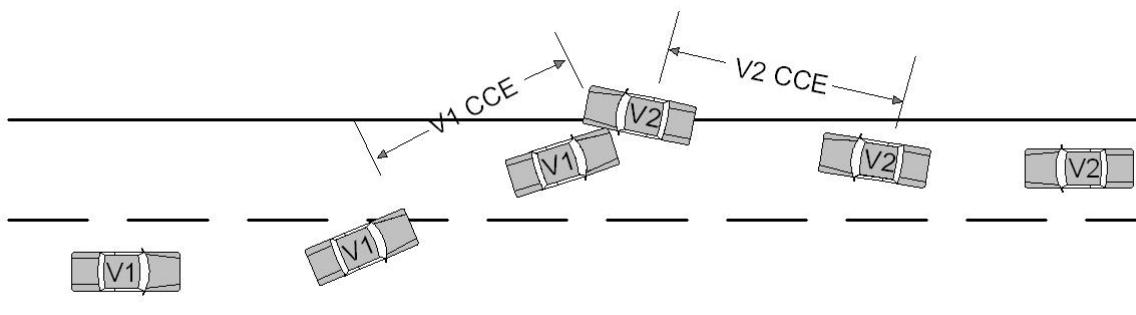
## Example 2

Vehicle 1 and vehicle 2 are traveling in opposite directions on the same roadway. The driver of vehicle 1 was texting on cell phone and crosses over the center line into the travel lane of vehicle 2. Vehicle 2 attempted to avoid vehicle 1 by steering right onto the shoulder and accelerating. Vehicle 1 impacted vehicle 2 in the side.

	<b>Vehicle 1</b>	<b>Vehicle 2</b>
Driver Distracted By	(Distractions) while manipulating cellular phone	Not distracted
Pre-Event Movement	Going straight	Going straight
Critical Pre-Crash (Category)	This vehicle traveling	Other motor vehicle encroaching into lane
Critical Pre-Crash (Event)	Over the lane line on left side of travel lane	From opposite direction over left lane line
Attempted Avoidance Maneuver	No avoidance maneuver	Accelerating and steering right
Pre-Impact Stability	Tracking	Tracking
Pre-Impact Location	Stayed on roadway, but left original travel lane	Departed roadway
Crash Type	64	65

In this example, vehicle 1 has one **critical crash envelope** (V<sub>1</sub>CCE) which begins at the point where vehicle 1 crosses over the lane line and ends at the point of impact with vehicle 2.

Vehicle 2 has one **critical crash envelope** (V<sub>2</sub>CCE) which begins at the point where driver 2 recognizes vehicle 1 encroaching into his/her travel lane. Vehicle 2's critical crash envelope ends at the point of impact with vehicle 1.



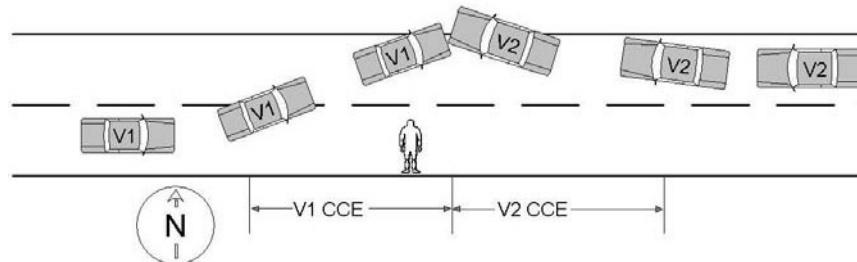
### **Example 3**

Vehicle 1 and vehicle 2 are traveling in opposite directions on the same roadway. The driver of vehicle 1 brakes (without lockup) and steers left to avoid a pedestrian who darted into his/her travel lane. Vehicle 1 crosses over the center line into the travel path of vehicle 2. The driver of vehicle 2 was talking with a passenger and not paying close attention to driving and at the last second attempted to avoid vehicle 1 by braking and steering right off the road. Vehicle 2 skids and rotates clockwise about 45 degrees before it is impacted in the front by vehicle 1.

	<b>Vehicle 1</b>	<b>Vehicle 2</b>
Driver Distracted By	Not distracted	(Distractions) by other occupant(s)
Pre-Event Movement	Going straight	Going straight
Critical Pre-Crash (Category)	Pedestrian, Pedacyclist, or other non-motorist	Other Motor Vehicle encroaching into lane
Critical Pre-Crash (Event)	Pedestrian in Road	From opposite direction over left lane line
Attempted Avoidance Maneuver	Braking and steering left	Braking and steering right
Pre-Impact Stability	Tracking	Skidding laterally - clockwise rotation
Pre-Impact Location	Stayed on roadway, but left original travel lane	Departed Roadway
Crash Type	60	61

In this example, vehicle 1 has one critical crash envelope (V<sub>1</sub>CCE). Vehicle 1's critical crash envelope involved a successful avoidance of a pedestrian [i.e., Critical Precrash Event equals **Pedestrian in Road**] which resulted in an **immediate** impact to vehicle 2. Therefore, the pedestrian is coded as the critical precrash event for vehicle 1. Vehicle 1's avoidance maneuver is for this example, the action taken to avoid the pedestrian.

Vehicle 2 has one **critical crash envelope** (V<sub>2</sub>CCE) which begins at the point where driver 2 recognized and reacted to vehicle 1 in his/her travel lane and ends at the point of impact with vehicle 1.



#### Example 4

Vehicle 1 and vehicle 2 are traveling in the same direction in adjacent lanes on a divided highway (with a painted median). While the driver of vehicle 1 was using an electric razor, the vehicle has a blow out, driver 1 loses control, crosses the left lane line and impacts the right rear of vehicle 2. Vehicle 2 is redirected across the painted median, skidding and rotating clockwise, and subsequently impacts vehicle 3. Vehicle 3 attempted to avoid vehicle 2 by steering right and accelerating.

	<b>Vehicle 1</b>	<b>Vehicle 2</b>
Driver Distracted By	(Distractions) while using or reaching for device/object brought into in vehicle	Not Reported
Pre-Event Movement	Going straight	Going straight
Critical Pre-Crash (Category)	This vehicle loss control due to:	Other motor vehicle encroaching into lane
Critical Pre-Crash (Event)	Blow out/flat tire	From adjacent lane (same direction) - over right lane line
Attempted Avoidance Maneuver	No avoidance maneuver	No avoidance maneuver
Pre-Impact Stability	Tracking	Tracking
Pre-Impact Location	Stayed on roadway, but left original travel lane	Stayed in original travel lane
Crash Type	45	44

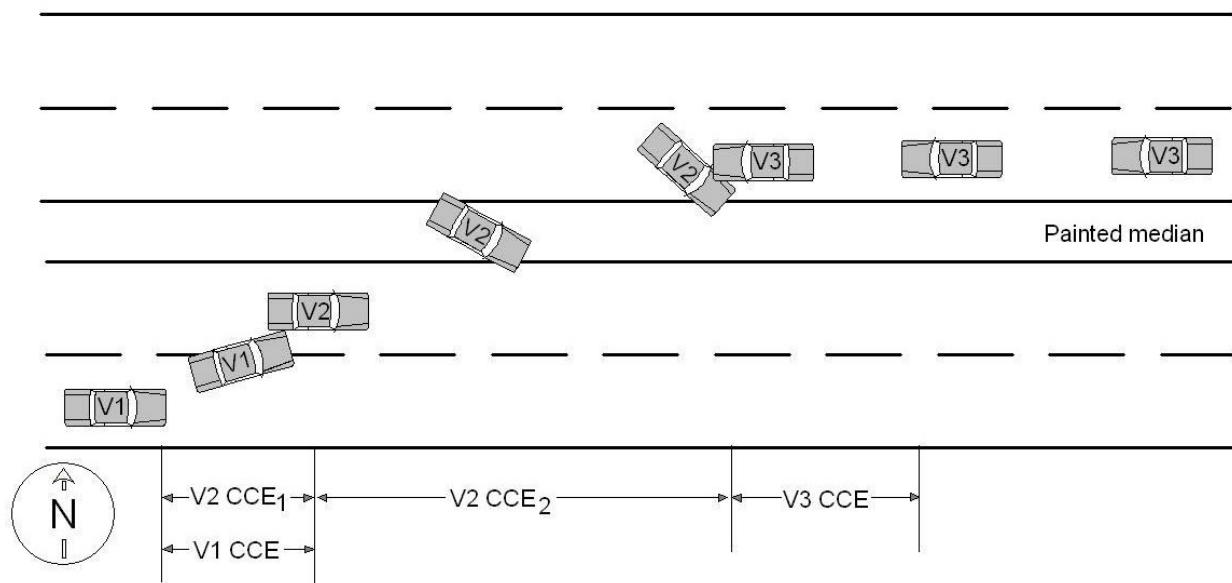
	<b>Vehicle 3</b>
Driver Distracted By	Not distracted
Pre-Event Movement	Going straight
Critical Pre-Crash (Category)	Other motor vehicle encroaching into lane
Critical Pre-Crash (Event)	From opposite direction - over left lane line
Attempted Avoidance Maneuver	Accelerating and steering right
Pre-Impact Stability	Tracking
Pre-Impact Location	Stayed in original travel lane
Crash Type	98

#### Example 4 (cont'd)

In this example, vehicle 1 has one **critical crash envelope** ( $V_1\text{CCE}$ ) which begins with control loss due to the blow out and ends at the point of impact with vehicle 2. The blow out is the critical precrash event.

Vehicle 2 has two critical crash envelopes ( $V_2\text{CCE}_1$  and  $V_2\text{CCE}_2$ ). Vehicle 2's first **critical crash envelope** ( $V_2\text{CCE}_1$ ) begins when vehicle 1 enters vehicle 2's travel lane and ends at the point of impact with vehicle 1. Vehicle 2's second **critical crash envelope** ( $V_2\text{CCE}_2$ ) begins immediately after the first impact and ends at the point of impact with vehicle 3. Use the critical crash envelope which resulted in vehicle 2's first impact ( $V_2\text{CCE}_1$ ), because NHTSA is only interested in coding the critical crash envelope which leads to a vehicle's first harmful event.

For this example, Vehicle 3 has one critical crash envelope ( $V_3\text{CCE}$ ) which begins when driver 3 recognizes and reacts to vehicle 2 which is in an imminent path of collision with vehicle 3 and ends at the point of impact with vehicle 2.



## Example 5

Vehicle 1 and vehicle 2 are traveling in opposite directions on the same roadway. A noncontact vehicle is parked in front of a noncontact truck-tractor (with a trailer) on the road shoulder and suddenly enters the roadway into vehicle 1's travel lane. The driver of vehicle 1 instantly brakes (with lockup) and steers left (with counterclockwise rotation) to avoid the noncontact vehicle. Vehicle 1 crosses over the center line and immediately impacts vehicle 2. Vehicle 2 had no avoidance maneuvers.

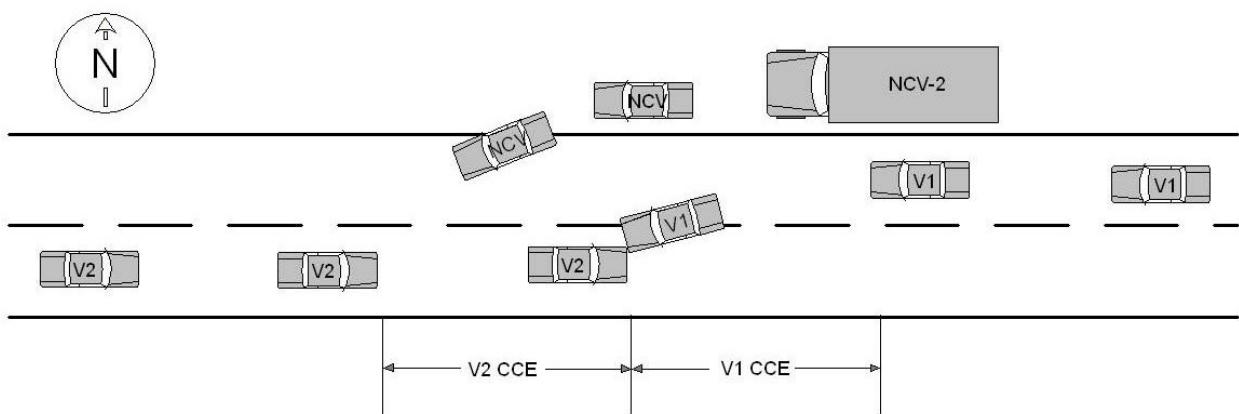
	<b>Vehicle 1</b>	<b>Vehicle 2</b>
Driver Distracted By	Not distracted	Not Reported
Pre-Event Movement	Going Straight	Going Straight
Critical Pre-Crash (Category)	Other motor vehicle encroaching into lane	Other motor vehicle encroaching into lane
Critical Pre-Crash (Event)	From parking lane, median, shoulder, roadside	From opposite direction over left lane line
Attempted Avoidance Maneuver	Braking and steering left	No avoidance actions
Pre-Impact Stability	Skidding laterally - counterclockwise rotation	Tracking
Pre-Impact Location	Stayed on roadway but left original travel lane	Stayed in original travel lane
Crash Type	58	59

In this example, vehicle 1 has one critical crash envelope (V<sub>1</sub>CCE). Vehicle 1's critical crash envelope involved a successful avoidance of a noncontact vehicle and resulted in an immediate impact to vehicle 2. Vehicle 1's critical crash envelope was initiated by the noncontact vehicle; afterwards there was no opportunity for subsequent avoidance actions. Therefore, the encroachment of the noncontact vehicle into vehicle 1's travel lane is coded as the critical precrash event for vehicle 1. Vehicle 1's avoidance maneuver is coded as the action taken to avoid the noncontact vehicle.

Vehicle 2 has one critical crash envelope (V<sub>2</sub>CCE) which begins at the point where vehicle 1 is in an imminent path of collision with vehicle 2 and ends at the point of impact with vehicle 1.

The noncontact vehicle and the noncontact truck were not involved in an impact in the sequence of crash events and are therefore not coded.

### Example 5 (Diagram)



## Example 6

Vehicle 1 is traveling eastbound. A noncontact vehicle (NCV) is westbound and attempts to turn left in front of Vehicle 1 into an intersecting private driveway. Vehicle 1 braked (without lockup) and steered left to avoid the noncontact vehicle. The driver of Vehicle 1 successfully avoided the noncontact vehicle and maintained full control, but crossed into the westbound lane. Now traveling the wrong way in the westbound lane, Vehicle 1 attempted to steer right and return to the eastbound lane but struck Vehicle 2 head on. Vehicle 2 attempted to avoid the crash by braking and steering right.

	<b>Vehicle 1</b>	<b>Vehicle 2</b>
Driver Distracted By	Not distracted	Not distracted
Pre-Event Movement	Successful avoidance maneuver to a previous critical event	Going straight
Critical Pre-Crash (Category)	Other motor vehicle in lane	Other motor vehicle in lane
Critical Pre-Crash (Event)	Traveling in opposite direction	Traveling in opposite direction
Attempted Avoidance Maneuver	Steering right	Braking and steering right
Pre-Impact Stability	Tracking	Tracking
Pre-Impact Location	Stayed in original travel lane	Stayed in original travel lane
Crash Type	52	52

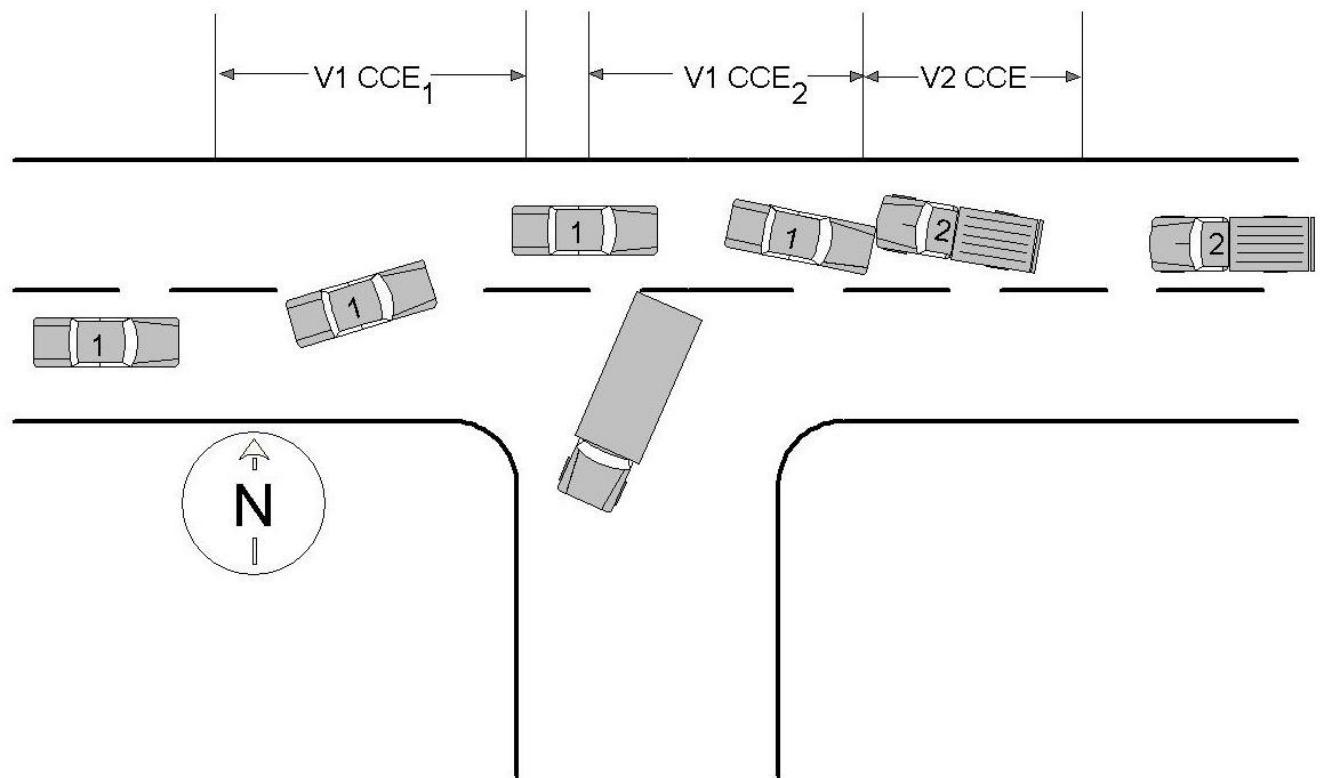
In this example, Vehicle 1 has two critical crash envelopes, (V1CCE<sub>1</sub>, and V1CCE<sub>2</sub>). Vehicle 1's first critical crash envelope (V1CCE<sub>1</sub>) ends at the point where the driver of Vehicle 1 made a successful avoidance maneuver and maintained full control of the vehicle. Vehicle 1's second critical crash envelope (V1CCE<sub>2</sub>) begins immediately following the successful avoidance maneuver and ends at the point of impact with Vehicle 2. Use the critical crash envelope which resulted in Vehicle 1's first impact (V1CCE<sub>2</sub>).

Vehicle 2 has one critical crash envelope (V2CCE<sub>1</sub>) which begins at the point where the driver of Vehicle 2 recognizes Vehicle 1 in his/her lane and ends at the point of impact with Vehicle 1.

The noncontact vehicle was not involved in an impact with another vehicle, person, animal, or object in the sequence of crash events and is therefore not included.

### Example 6 (cont'd)

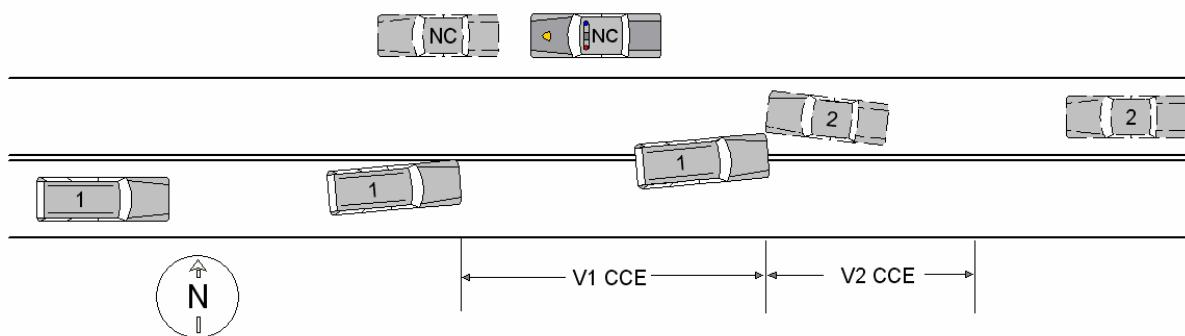
Vehicle 2 has one **critical crash envelope** (V<sub>2</sub>CCE) which begins at the point where driver 2 recognizes vehicle 1 in his/her travel lane and ends at the point of impact with vehicle 1. The noncontact vehicle was not involved in an impact with another vehicle, person, animal, or object.



## Example 7

Vehicle 1 and Vehicle 2 are traveling in opposite directions on the same roadway. A police car (with lights activated) is making a traffic stop on the side of the road. The driver of Vehicle 1 is looking at the activity on his left. Before he can react, Vehicle 1 crosses the centerline and the front of vehicle 1 strikes the front of Vehicle 2. The driver of Vehicle 2 also noticed the police activity, but he was attentive to the slowing traffic ahead. Vehicle 2 attempted to avoid the crash by braking and steering right.

	<b>Vehicle 1</b>	<b>Vehicle 2</b>
Driver Distracted By	Distracted by outside person, object, or event	Not distracted
Pre-Event Movement	Going straight	Going straight
Critical Pre-Crash (Category)	This vehicle traveling	Other motor vehicle encroaching into lane
Critical Pre-Crash (Event)	Over the lane line on left side of travel lane	From opposite direction, over left lane line.
Attempted Avoidance Maneuver	No avoidance maneuver	Braking and steering right
Pre-Impact Stability	Tracking	Skidding longitudinally rotation less than 30 degrees
Pre-Impact Location	Stayed on roadway but left original travel lane	Stayed in original travel lane
Crash Type	50	51



## **VEHICLE NUMBER – PRECRASH LEVEL**

**FORMAT:** 3 numeric

**SAS NAME:** Vehicle.Veh\_No

**ELEMENT VALUES:**

001-999

**Definition:** This element identifies the number assigned to this vehicle in the crash.

**Remarks:**

Each motor vehicle in a crash must be assigned a unique number by the Analyst. Order is not important.

Numbers assigned to vehicles must be consecutive, starting with '001' with no missing numbers.

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## **CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE**

**FORMAT:** 2 numeric. Select all that apply.

**SAS NAME:** Factor.MFACTOR

**ELEMENT VALUES:**

- 1      None
- 2      Tires
- 3      Brake System
- 4      Steering
- 5      Suspension
- 6      Power Train
- 7      Exhaust System
- 8      Head Lights
- 9      Signal Lights
- 10     Other Lights
- 11     Wipers
- 12     Wheels
- 13     Mirrors
- 14     Windows/Windshield
- 15     Body, Doors
- 16     Truck Coupling / Trailer Hitch / Safety Chains
- 17     Safety Systems
- 18     Vehicle Contributing Factors - No Details
- 97     Other
- 98     Not Reported
- 99     Unknown

**Definition:** This element describes the possible pre-existing motor vehicle defects or maintenance conditions that may have contributed to the crash.

**Remarks:**

Rationale: Important for determining the significance of pre-existing problems, including equipment and operation, in motor vehicles involved in crashes that could be useful in determining the need for improvements in manufacturing and consumer alerts.

**1 (None) is used:**

- when the case materials make a positive statement that the vehicle had no defects or “none” was indicated on the PAR.

- when the case materials do not indicate a defect in an available field and not reporting a defect in that field indicates None.
- when the investigating officer is limited in selection and cannot select a defect in addition to another factor relevant to crash and no other indication of a defect exists in the case materials.
- For omission of information see Not Reported guidance below.

**2 (Tires)** include any defect of a tire. If the contributing factor is of the wheel (e.g., a lug nut comes off), then use **11 (Wheels)**.

**3 (Brake System)** includes parking brakes.

**4 (Steering)** is used when the case materials indicate the following may have contributed to the crash: tie rod ends, kingpins, power steering components and ball joints.

**5 (Suspension)** is used when the case materials indicate that the vehicle's suspension components may have contributed to the crash. These include, springs, shock absorbers, struts and control arms.

**6 (Power Train)** is used when the case materials indicate that the vehicles power train components may have contributed to the crash. Examples are: universal joints, drive shaft and transmission. This also includes engine, differential and stuck throttles.

**7 (Exhaust System)** includes exhaust manifold(s), headers, muffler, catalytic converter, tailpipe, etc.

**09 (Other Lights)** is used for an indication of the tail lights contributing to the crash. It also used when the case materials indicated the "lights" of the vehicle contributed to the crash and when the case materials are coded as "other."

**11 (Wheels)** include loss of lug nuts.

**13 (Windows/Windshield)** is used when there is a pre-existing defect to the windows or windshield such as improper tinting or cracks.

**14 (Body, Doors)** includes trunk, hood, tailgate, rear doors of cargo vans, etc.

**15 (Truck Coupling/Trailer Hitch/Safety Chains)** applies to a defective trailer hitch or an improper trailer hitch. If the case material cites this attribute.

**16 (Safety Systems)** is used when the case materials indicate that the air bags failed to deploy or the air bag deployed inappropriately. Also, use this when a seat belt failure is described, such as webbing excessively worn or came unlatched. Excludes: improper use.

**17 (Vehicle Contributing Factors - No Details)** is used if a vehicle "factor" or "defect" is indicated the case materials but no information is given concerning the nature of the "factor."

**97 (Other)** includes any other component described in the case materials that is not listed in the above attribute list, such as, horns.

**98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown)** is used only if the case material specifically indicates an "unknown defect" or "unknown contributing factor."

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(1L4P)	any DRIVER'S VISION OBSCURED BY equals 09,	at least one CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must equal 97.
(1L5P)	any DRIVER'S VISION OBSCURED BY equals 10,	at least one CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must equal 07 or 08 or 09.
(3D70)	CRITICAL EVENT – PRECRASH (EVENT) equals 01-04,	CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must not equal 00.
(3DB0)	any CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE equals 00 or 98 or 99,	only that one code and no other must be coded for this vehicle.
(V990)	any SEQUENCE OF EVENTS equals 61,	CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE should not equal 00.

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## **TRAFFICWAY DESCRIPTION**

**FORMAT:** 1 numeric

**SAS NAME:** VEHICLE.VTRAFWAY

**ELEMENT VALUES:**

- 0 Non-Trafficway or Driveway Access
- 1 Two-Way, Not Divided
- 2 Two-Way, Divided, Unprotected (Painted > 4 Feet) Median
- 3 Two-Way, Divided, Positive Median Barrier
- 5 Two-Way, Not Divided With a Continuous Left-Turn Lane
- 4 One-Way Trafficway
- 6 Entrance/Exit Ramp
- 8 Not Reported
- 9 Unknown

**Definition:** This element identifies the value indicated in the case materials which best describes the trafficway flow just prior to this vehicle's critical precrash event.

**Remarks:**

Enter the value indicated in the case materials which best describes the trafficway flow just prior to this vehicle's critical precrash event. For vehicles departing the trafficway prior to their critical precrash events, the trafficway selected for classification is the one the vehicle departed. If this vehicle is in a junction just prior to its critical precrash event, the trafficway selected for classification is the one it is on before entering the junction.

**0 (Non-Trafficway or Driveway Access)** is used when this vehicle is entering a trafficway but was not on a trafficway prior to its critical precrash event or when the vehicle was in a driveway access prior to its critical precrash event.

A trafficway may include several roadways if it is a physically divided highway. Trafficways are not physically divided unless the divider is a median, barrier, or other constructed device.

**Pavement markings do qualify when they meet the definition of a median.** Refer to the definition of **03 (On Median)** under Relation to Trafficway.

A channelized lane should be considered a turn lane of the roadway it is part of, not a separate one-way roadway. Therefore, crashes occurring in a channelized lane should not be coded as a separate trafficway.

**1 (Two-Way, Not Divided)** is used whenever there is no median. Generally, medians are not designed to legally carry traffic. **NOTE:** Although gores separate roadways, and traffic islands (associated with channels) separate travel lanes, neither is involved in the determination of trafficway division.

**5 (Two-Way, Not Divided, With a Continuous Left-Turn Lane)** is used whenever the trafficway has a two-way left turn lane positioned between opposing straight-through travel lanes. It is designed to allow left turns to driveways, shopping centers, businesses, etc., while at the same time providing a separation of opposing straight-through travel lanes.

**2 (Two-Way, Divided, Unprotected (Painted > 4 Feet) Median)** is used whenever the trafficway is physically divided, however, the division is unprotected [e.g., vegetation, gravel, paved medians, trees, water, embankments and ravines that separate a trafficway (i.e., all non-manufactured barriers)]. NOTE: Raised curbed medians **DO NOT** constitute a positive barrier in and by themselves. The unprotected medians can be of any width, however, painted paved flush areas, must be at least 4 feet in width to constitute a median strip.

**3 (Two-Way, Divided, Positive Median Barrier)** is used whenever the traffic is physically divided and the division is protected by any concrete, metal, or other type of longitudinal barrier (i.e., all manufactured barriers). For underpass support structures and bridge rails acting as a barrier, use this attribute.

Traffic Barrier refers to a physical structure such as a guardrail, a concrete safety barrier or a rock wall which has the primary function of preventing cross-median travel by deflecting and redirecting vehicles along the roadway on which they were traveling. Therefore, trees, curbing, rumble strips and drain depressions are not barriers.

All traffic barriers are constructed on a median strip; therefore, if a traffic barrier exists on a divided highway, **3 (Two-Way, Divided, Positive Median Barrier)** must be used. If it is not known whether or not a barrier exists, assume one does and use **3 (Two-Way, Divided, Positive Median Barrier)** (that is, if a median is known to exist).

**4 (One-Way Trafficway)** is used whenever the trafficway is undivided and traffic flows in but one direction (e.g., one-way streets).

**6 (Entrance/Exit Ramp)** is an auxiliary or connecting roadway used for entering or exiting through-traffic lanes of a limited access roadway.

#### **8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**9 (Unknown)** is used when police indicate unknown.

**Consistency Checks:**

IF	THEN
(250P) RELATION TO JUNCTION (b) equals 01, 02, 04, 06, 07, 16-19, 98, 99, and RELATION TO TRAFFICWAY equals 03,	TRAFFICWAY DESCRIPTION should equal 2, 3 for at least one vehicle involved in the first harmful event.
(254P) RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 20,	TRAFFICWAY DESCRIPTION must equal 6 for at least one vehicle involved in the first harmful event.
(740P) RELATION TO JUNCTION (b) equals 07,	TRAFFICWAY DESCRIPTION must equal 2, 3 for at least one vehicle.
(A292) <u>any</u> TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00,	<u>all</u> must equal 0, 00, <u>and</u> SPEED LIMIT must equal 00 for this vehicle.
(A300) ROUTE SIGNING equals 1,	
(A470) WORK ZONE equals 0, and TRAFFICWAY DESCRIPTION equals 1-3, 5,	TRAFFICWAY DESCRIPTION should equal 2, 3, 6 for at least one vehicle. TOTAL LANES IN ROADWAY should not equal 1.
(A481) TRAFFICWAY DESCRIPTION equals 6, and <b>RELATION TO JUNCTION (b) does not equal 02, 03,</b>	TOTAL LANES IN ROADWAY should equal 1, 2, 8, 9.
(A482) TRAFFICWAY DESCRIPTION equals 4 or 6,	TOTAL LANES IN ROADWAY should not equal 5-7.
(A490) TRAFFICWAY DESCRIPTION equals 2, 3, 5,	ROADWAY SURFACE TYPE should not equal 4, 5, 7.
(A491) TRAFFICWAY DESCRIPTION equals <b>2 or 3,</b>	TOTAL LANES IN ROADWAY should not equal 7.
(A492) TRAFFICWAY DESCRIPTION equals 2, 3, 5, 6,	SPEED LIMIT must not equal 00.
(A493) TRAFFICWAY DESCRIPTION equals 2, 3, 5,	SPEED LIMIT should be greater than 15.
(A494) TRAFFICWAY DESCRIPTION equals 6,	ROADWAY GRADE should not equal 3, 4.
(A495) TRAFFICWAY DESCRIPTION equals 0,	the <u>first</u> event in SEQUENCE OF EVENTS for this vehicle should not equal 63, 64, 69 or 71.
(A610) RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 05,	TRAFFICWAY DESCRIPTION should equal 6 for at least one vehicle involved in the first harmful event.

	<b>IF</b>	<b>THEN</b>
(A611)	TRAFFICWAY DESCRIPTION equals 6 for at least one vehicle involved in the first harmful event,	RELATION TO JUNCTION (b) should equal 02, 03, 05, 17-20.
(A620)	CRASH TYPE equals 06-10, and TRAFFICWAY DESCRIPTION equals 3,	RELATION TO TRAFFICWAY should equal 03.
(A720)	ROADWAY FUNCTION CLASS equals 01, 11, 12,	TRAFFICWAY DESCRIPTION should equal 2, 3, 6 for at least one vehicle.
(A881)	RELATION TO TRAFFICWAY equals 11,	TRAFFICWAY DESCRIPTION should equal 5 for at least one vehicle.
(AM2P)	any SEQUENCE OF EVENTS equals 25 or 57,	TRAFFICWAY DESCRIPTION should equal 3, 6.

**Consistency Check (GES Only):**

	<b>IF</b>	<b>THEN</b>
(A3H0)	INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20,	TRAFFICWAY DESCRIPTION should not equal 4 for at least one vehicle involved in the first harmful event.

## TOTAL LANES IN ROADWAY

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.VNUM\_LAN

**ELEMENT VALUES:**

- 0 Non-Trafficway or Driveway Access
- 1 One lane
- 2 Two lanes
- 3 Three lanes
- 4 Four lanes
- 5 Five lanes
- 6 Six lanes
- 7 Seven or more lanes
- 8 Not Reported
- 9 Unknown

**Definition:** This element identifies the value indicated in the case materials which best describes the number of **roadway** lanes just prior to this vehicle's critical precrash event.

**Remarks:**

For vehicles departing the trafficway prior to their critical precrash events, the trafficway selected for classification is the one the vehicle departed. If this vehicle is in a junction just prior to its critical precrash event, the roadway selected for classification is the one it is on before entering the junction.

A roadway is one part of a divided trafficway or, if undivided, the same as the trafficway.

***If turn bays, acceleration, deceleration, or center 2-way left turn lanes exist and are physically located within the cross section of the roadway, and these lanes are the most representative of the driver's environment just prior to the critical precrash event, then they are to be included in the number of lanes. Channelized lanes are separated from other through or turn related lanes.***

***(NOTE: The separation normally will not involve a physical barrier.) Because a channelized lane is separated, it should not be included unless it is preceded by a turn bay or turn lane and this bay or lane is felt to be most representative of the driver's environment just prior to impact.***

***The number of lanes counted does not include any of which are rendered unusable by restriction of the right-of-way (e.g., closed due to construction).***

**0 (Non-Trafficway or Driveway Access)** is used when this vehicle is entering a trafficway but was not on a trafficway prior to its critical precrash event or when the vehicle was in a driveway access prior to its critical precrash event.

If traffic flows in both directions and is undivided, code the total number of lanes in both directions. If the trafficway is divided into two or more roadways, code only the number of lanes for the roadway on which this vehicle was traveling. Be aware that the case materials may indicate the total number of lanes on the divided trafficway.

The number of lanes counted does not include any that are rendered unusable by restriction of the right-of-way (e.g., closed due to construction).

### **8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**9 (Unknown)** is used when police indicate unknown.

### **Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(A250)	ROADWAY FUNCTION CLASS equals 01, 02, 11-13, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 03, 05, 20,	TOTAL LANES IN ROADWAY should not equal 1 for the vehicles involved in the first harmful event.
(A292)	any TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00,	<u>all</u> must equal 0, 00, <u>and</u> SPEED LIMIT must equal 00 for this vehicle.

	IF	THEN
(A310)	ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,	TOTAL LANES IN ROADWAY should not equal 1 for any vehicle.
(A470)	WORK ZONE equals 0, and TRAFFICWAY DESCRIPTION equals 1-3, 5,	TOTAL LANES IN ROADWAY should not equal 1.
(A481)	TRAFFICWAY DESCRIPTION equals 6, and <b>RELATION TO JUNCTION (b)</b> <b>does not equal 02, 03,</b>	TOTAL LANES IN ROADWAY should equal 1, 2, 8, 9.
(A482)	TRAFFICWAY DESCRIPTION equals 4 or 6,	TOTAL LANES IN ROADWAY should not equal 5-7.
(A491)	TRAFFICWAY DESCRIPTION equals <b>2 or 3,</b>	TOTAL LANES IN ROADWAY should not equal 7.
(A500)	TOTAL LANES IN ROADWAY equals 3-7,	ROADWAY SURFACE TYPE should not equal 4, 5, 7.
(PC50)	PRE-IMPACT LOCATION equals 2,	TOTAL LANES IN ROADWAY should not equal 1.

**Consistency Check (GES Only):**

	IF	THEN
(A3G0)	INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20,	TOTAL LANES IN ROADWAY should not equal 1 for at least one vehicle involved in the first harmful event.

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## **SPEED LIMIT**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.VSPD\_LIM

**ELEMENT VALUES:**

- 00 No Statutory Limit/Non-Trafficway or Driveway Access
- 05-80 Actual Speed Limit (in 5 mph increments)
- 98 Not Reported
- 99 Unknown

**Definition:** This element identifies the value indicated in the case materials which best represents the speed limit just prior to this vehicle's critical precrash event.

**Remarks:**

For vehicles departing the trafficway prior to their critical precrash events, the trafficway selected for classification is the one the vehicle departed. If this vehicle is in a junction just prior to its critical precrash event, the roadway selected for classification is the one it is on before entering the junction.

**Note:** Refer to the highway speed limit that is operational at the time and place of the crash whether physically displayed or not. Try not to confuse advisory signs on entrance/exit ramps or near intersections with the actual legal maximum speed limit. Disregard advisory or other speed signs since they do not indicate the legal speed limit. If a state has a statute that uniformly reduces the maximum allowable speed limit within or near a construction zone, then code the indicated reduced speed limit, if known.

Acceptable speed limits are in 5 mph increments.

**00 (No Statutory Limit/Non-Trafficway or Driveway Access)** is used when there is no posted speed limit and no law that governs the maximum speed you can drive (dirt roads, private roads open to the public). Also use this attribute in cases when this vehicle is entering a trafficway but was not on a trafficway prior to its critical precrash event or when the vehicle was in a driveway access prior to its precrash event.

When coding Speed Limit for roadways with two different speed limits (for north and south-bound lanes), use the speed limit for the direction of travel where the critical precrash event begins.

When a roadway has a different speed limit for different types of vehicles, code the speed limit that is applicable to passenger cars.

**Example:**

A rural Interstate highway has a speed limit of 65 MPH for passenger cars, but the same road has a 55 MPH speed limit for heavy trucks/buses.

**Circumstance 1:** A single-vehicle (passenger car) crash. Speed Limit = 65 MPH

**Circumstance 2:** A single-vehicle (heavy truck/bus) crash. Speed Limit = 65 MPH

**Circumstance 3:** A two-vehicle crash, (passenger car and heavy truck/bus) crash.  
Speed Limit = 65 MPH

**Logic:**

Our statisticians feel that it would be more representative to code the Speed Limit of the majority of the traffic, namely the passenger car. In addition, they feel that by identifying the car speed limit of 65 MPH, they can then determine the truck speed limit by reviewing the state's speed limit law. (The reverse is not necessarily true.)

**98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown)** is used when police indicate unknown.

**Values less than 15 mph are unlikely occurrences and will raise an error flag.**

**EARS SPECIAL INSTRUCTION:**

Accurate coding of Speed Limit is extremely important. Do not rely solely on the PAR. Check with the State Highway Department as well.

When coding Speed Limit on On-Off Ramps (i.e., when the critical precrash event occurs on the ramp), consider the following:

- A. When a ramp has a posted Speed Limit - a regulatory (black on white) sign, not an advisory (black on yellow) one - the posted speed should be coded.
- B. When there is an advisory speed limit or no sign at all, you should:

1. Check with your State Highway Department to see if there is an implicit speed limit for all unmarked ramps. If there is, code speed limit.
2. If there is not; code the speed limit of the controlled access highway.

**Consistency Check:**

	<b>IF</b>	<b>THEN</b>
(1T0P)	SPEED LIMIT for every vehicle is greater than 55, and not equal to 98 or 99,	ROADWAY FUNCTION CLASS should not equal 15, 16.
(A220)	ROADWAY FUNCTION CLASS equals 01, 11, and RELATION TO JUNCTION (a) equals 0,	SPEED LIMIT should not equal 05-40 for any vehicle.
(A292)	<u>any</u> TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00,	<u>all</u> must equal 0, 00, <u>and</u> SPEED LIMIT must equal 00 for this vehicle.
(A320)	ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,	SPEED LIMIT should not equal 05-40 for any vehicle.
(A492)	TRAFFICWAY DESCRIPTION equals 2, 3, 5, 6,	SPEED LIMIT must not equal 00.
(A493)	TRAFFICWAY DESCRIPTION equals 2, 3, 5,	SPEED LIMIT should be greater than 15.
(A521)	any SEQUENCE OF EVENTS equals 46,	SPEED LIMIT should equal 05-50, 98 or 99 for this vehicle.
(A700)	SPEED LIMIT is greater than 65 for every vehicle,	ROUTE SIGNING should equal 1-4.
(A830)	FIRST HARMFUL EVENT equals 46,	SPEED LIMIT should be less than 55 for the vehicle involved in the first harmful event.
(A900)	SPEED LIMIT equals 60, 65 for every vehicle,	ROADWAY FUNCTION CLASS should not equal 05, 06, 14-16.
(A940)	STATE NUMBER equals 11,	maximum SPEED LIMIT (not including 98 or 99) should equal 55.
(A945)	STATE NUMBER equals 15,	maximum SPEED LIMIT (not including 98 or 99) should equal 60.
(A950)	STATE NUMBER equals 09, <b>10, 24, 25, 34, 36, 41</b> , 43, 44, 50, 55,	maximum SPEED LIMIT (not including 98 or 99) should equal 65.
(A955)	STATE NUMBER equals 01, 05, 06, 12, 13, <b>17</b> , 18, 19, 20, 21, 22, 26, 27, 28, 29, <b>33, 37, 39, 42</b> , 45, 47, 51, 53, 54,	maximum SPEED LIMIT (not including 98 or 99) should equal 70.

	<b>IF</b>	<b>THEN</b>
(A960)	STATE NUMBER equals 04, 08, 16, 30, 31, 32, 35, 38, 40, 46, 48, 49, 56,	maximum SPEED LIMIT (not including 98 or 99) should equal 75.

**Consistency Check (GES Only):**

	<b>IF</b>	<b>THEN</b>
(A3J0)	INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20,	SPEED LIMIT should not equal 01-40 for at least one vehicle involved in the first harmful event.
(A965)	PSU equals 72, 91, 9, 21, 22, 4, 1, 2, 3, 23, 24, 25, 26, 30, 5, 6, 7, 8, 71,	maximum SPEED LIMIT (not including 98 or 99) should equal 65.
(A970)	PSU equals 47, 48, 79, 80, 96, 97, 41, 42, 61, 73, 93, 28, 10, 11, 12, 13, <b>29</b> , <b>31</b> , 32, 33, 92, 43, 44, 45, 46, 27, 81, 82,	maximum SPEED LIMIT (not including 98 or 99) should equal 70.
(A975)	PSU equals 76, 77, 78, 75, 94, 74, 95, 64, 49, 50, 51, 62, 63,	maximum SPEED LIMIT (not including 98 or 99) should equal 75.

## **ROADWAY ALIGNMENT**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.VALIGN

**ELEMENT VALUES:**

- 0 Non-Trafficway or Driveway Access
- 1 Straight
- 2 Curve-Right
- 3 Curve-Left
- 4 Curve - Unknown Direction
- 8 Not Reported
- 9 Unknown

**Definition:** This element identifies the value indicated in the case materials which best represents the roadway alignment prior to this vehicle's critical precrash event.

**Remarks:**

For vehicles departing the trafficway prior to their critical precrash events, the trafficway selected for classification is the one the vehicle departed.

The PAR information is prioritized as follows:

- 1) The Narrative.
- 2) If a curved roadway section is shown in the diagram, code **Curve**.
- 3) If the roadway section shown in the diagram is straight, but only a small roadway section is depicted, use check-box if it is filled out. If the check box is not filled out or does not exist, code 1 (Straight).
- 4) If the roadway section on the diagram is straight and a large roadway section is depicted, code 1 (Straight).
- 5) If the roadway is not described in the narrative or shown in the diagram, use the checkbox information.

**0 (Non-Trafficway or Driveway Access)** is used when this vehicle is entering a trafficway but was not on a trafficway prior to its critical precrash event or when the vehicle was in a driveway access prior to its precrash event.

**1 (Straight)** is selected if the case materials indicate this vehicle's roadway is straight.

**2 (Curve Right) or 3 (Curve Left)** is selected if the case materials indicate this vehicle's roadway is curved or there is any curvature discernable on the diagram.

**4 (Curve - Unknown Direction)** is selected if the case materials indicate a curve, but no curve direction (left/right) is indicated.

### **8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**9 (Unknown)** is used when police indicate unknown.

### **Consistency Check:**

	<b>IF</b>	<b>THEN</b>
(A292)	any TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00,	<u>all</u> must equal 0, 00, <u>and</u> SPEED LIMIT must equal 00 for this vehicle.
(A4D0)	PRE-EVENT MOVEMENT(PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 14,	ROADWAY ALIGNMENT must equal 2-4.
(A4D1)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 01,	ROADWAY ALIGNMENT should not equal 2-4.

## ROADWAY GRADE

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.VProfile

**ELEMENT VALUES:**

- 0 Non-Trafficway or Driveway Access
- 1 Level
- 3 Hillcrest
- 5 Uphill
- 6 Downhill
- 2 Grade, Unknown Slope
- 4 Sag (Bottom)
- 8 Not Reported
- 9 Unknown

**Definition:** This element identifies the value indicated in the case materials which best represents the roadway grade prior to this vehicle's critical precrash event.

**Remarks:**

For vehicles departing the trafficway prior to their critical precrash events, the trafficway selected for classification is the one the vehicle departed. If this vehicle is in a junction just prior to its critical precrash event, the roadway selected for classification is the one it is on before entering the junction.

**0 (Non-Trafficway or Driveway Access)** is used when this vehicle is entering a trafficway but was not on a trafficway prior to its critical precrash event or when the vehicle was in a driveway access prior to its critical precrash event.

**3 (Hillcrest)** refers to the area of transition between an uphill and a downhill grade as in the illustration on the following page.

**2 (Grade, Unknown Slope)** is used if the case materials indicate a grade, but uphill/downhill is not indicated.

**4 (Sag [Bottom])** is a designed transition feature between a change of grade at the bottom of a hill. It is not a dip, which is a flaw.

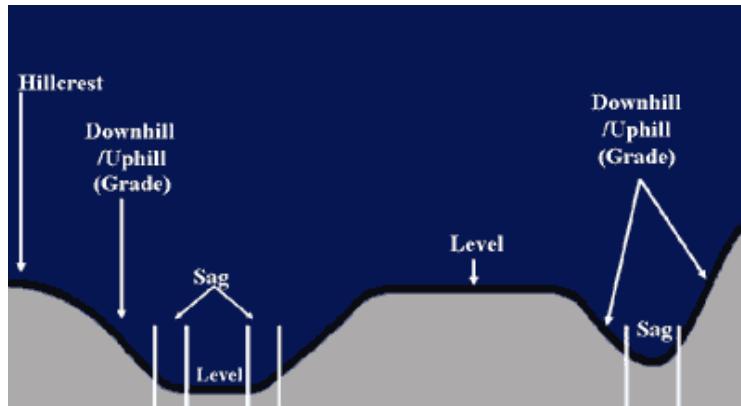
A dip on the road is not the same as a sag . A sag is a design feature whereas a dip is a flaw. The minimum length of a sag is 100 feet.

**8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported**”.

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).



**9 (Unknown)** is used when police indicate unknown.

**Consistency Check:**

	<b>IF</b>	<b>THEN</b>
(1Z1P)	any SEQUENCE OF EVENTS equals 66,	ROADWAY GRADE should equal 6 for this vehicle.
(A292)	any TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00,	<u>all</u> must equal 0, 00, <u>and</u> SPEED LIMIT must equal 00 for this vehicle.
(A494)	TRAFFICWAY DESCRIPTION equals 6,	ROADWAY GRADE should not equal 3, 4.

## **ROADWAY SURFACE TYPE** **(FARS Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.VPAVETYP

**ELEMENT VALUES:**

- 0 Non-Trafficway Area or Driveway Access
- 1 Concrete
- 2 Blacktop, Bituminous, or Asphalt
- 3 Brick or Block
- 4 Slag, Gravel or Stone
- 5 Dirt
- 7 Other
- 8 Not Reported
- 9 Unknown

**Definition:** This element identifies the value indicated in the case materials which best represents the roadway surface type prior to this vehicle's critical precrash event.

**Remarks:**

For vehicles departing the trafficway prior to their critical precrash events, the trafficway selected for classification is the one the vehicle departed. If this vehicle is in a junction just prior to its critical precrash event, the roadway selected for classification is the one it is on before entering the junction.

Should be obtained from the crash report or the State Highway Department.

If the Police Accident Report (PAR) lists more than one type, choose the type with the lowest number. For example, if the PAR indicates Dirt/Gravel, then use **4 (Slag, Gravel or Stone)**.

**0 (Non-Trafficway or Driveway Access)** is used when this vehicle is entering a trafficway but was not on a trafficway prior to its critical precrash event or when the vehicle was in a driveway access prior to its critical precrash event.

**8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(A160)	ROADWAY FUNCTION CLASS equals 01, 02, 04, 11, 12, 13, 15,	ROADWAY SURFACE TYPE should equal 1, 2, 8 or 9 for at least one vehicle.
(A170)	ROADWAY SURFACE TYPE equals 3-5 for every vehicle,	ROADWAY FUNCTION CLASS should not equal 01-03, 11-15.
(A292)	any TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00,	<u>all</u> must equal 0, 00, <u>and</u> SPEED LIMIT must equal 00 for this vehicle.
(A330)	ROUTE SIGNING equals 1, 2,	ROADWAY SURFACE TYPE should equal 1, 2, 8 for at least one vehicle.
(A490)	TRAFFICWAY DESCRIPTION equals 2, 3, 5,	ROADWAY SURFACE TYPE should not equal 4, 5, 7.
(A500)	TOTAL LANES IN ROADWAY equals 3-7,	ROADWAY SURFACE TYPE should not equal 4, 5, 7.

## ROADWAY SURFACE CONDITIONS

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.VSurCond

**ELEMENT VALUES:**

- 1 Non-Trafficway or Driveway Access
- 2 Dry
- 3 Wet
- 4 Snow
- 10 Slush
- 04 Ice/Frost
- 06 Water (Standing, Moving)
- 05 Sand
- 11 Mud, Dirt, Gravel
- 7 Oil
- 8 Other
- 98 Not Reported
- 99 Unknown

**Definition:** This element identifies the value indicated in the case materials which best represents the roadway surface condition prior to this vehicle's critical precrash event.

**Remarks:**

For vehicles departing the trafficway prior to their critical precrash events, the trafficway selected for classification is the one the vehicle departed. If this vehicle is in a junction just prior to its critical precrash event, the roadway selected for classification is the one it is on before entering the junction. These conditions may have been present but did not necessarily contribute to the crash.

If more than one surface condition is indicated for this vehicle select the condition that would have most affected the vehicle's traction.

**00 (Non-Trafficway or Driveway Access)** is used when this vehicle is entering a trafficway but was not on a trafficway prior to its critical precrash event or when the vehicle was in a driveway access prior to its critical precrash event.

A road made of sand or dirt would be coded **01 (Dry)** under normal conditions, not **05 (Sand)**, **11 (Mud, Dirt, Oil)**.

**2 (Wet)** describes a roadway surface that is covered with water from rain or melted snow.

**3 (Snow)** describes a roadway surface that is covered with snow.

**10 (Slush)** describes a roadway surface that is covered with melting snow.

**04 (Ice/Frost)** includes a roadway covered with ice from freezing rain or water runoff that has pooled on the roadway and turned to ice.

**06 (Water [Standing, Moving])** describes a roadway surface that is covered with water and typically localized.

**FARS SPECIAL INSTRUCTION:**

See Related Factors-Crash Level **05 (Surface Under Water)** to see if it applies.

**05 (Sand)** includes sand on the roadway as a result of sand blown by wind or sand discharged on the roadway by highway trucks.

**11 (Mud, Dirt, Gravel)** indicates these substances present on the surface of the roadway at the crash location, not the surface type of the roadway by design.

**7 (Oil)** includes fuel spilled on the roadway.

**8 (Other)** is used for roadway surface conditions not described above.

**98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown)** is used when police indicate unknown.

**Consistency Checks:**

IF	THEN
(1A1P) RELATED FACTORS-CRASH LEVEL equals 05,	ROADWAY SURFACE CONDITIONS must equal 06 for at least one vehicle.
(A040) CRASH MONTH equals 05-09,	ROADWAY SURFACE CONDITIONS should not equal 03, 04, 10.
(A1A0) ROADWAY SURFACE CONDITIONS equals 01 for a vehicle involved in the first harmful event,	ATMOSPHERIC CONDITIONS should not equal 02-04, 11, 12.
(A1C0) ROADWAY SURFACE CONDITIONS equals 01,	DRIVER'S VISION OBSCURED BY should not equal 08.
(A510) any ATMOSPHERIC CONDITIONS equals 02-04, 11, 12,	ROADWAY SURFACE CONDITIONS should not equal 01, 07, 08, 99 for any vehicle.
(A292) <u>any</u> TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00,	<u>all</u> must equal 0, 00, <u>and</u> SPEED LIMIT must equal 00 for this vehicle.

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## **TRAFFIC CONTROL DEVICE**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.VTrafCon

**ELEMENT VALUES:**

1 No Controls

**Traffic Signals**

- 2 Traffic Control Signal (on colors) without Pedestrian Signal
- 3 Traffic Control Signal (on colors) with Pedestrian Signal
- 4 Traffic Control Signal (on colors) not known whether or not Pedestrian Signal
- 7 Lane Use Control Signal
- 8 Other Highway Traffic Signal
- 9 Unknown Highway Traffic Signal
- 04 Flashing Traffic Control Signal

**Regulatory Signs**

- 20 Stop Sign
- 21 Yield Sign
- 28 Other Regulatory Sign
- 29 Unknown Regulatory Sign
- 23 School Zone Sign/Device
  
- 40 Warning Sign
- 65 Railway Crossing Device
- 50 Person
- 98 Other
- 97 Not Reported
- 99 Unknown

**Definition:** This element identifies the attribute indicated in the case materials which best describes the traffic controls in the vehicle's environment just prior to this vehicle's critical precrash event.

**Remarks:**

The roadway used for coding this element is the one this vehicle departed if it is off the roadway just prior to its critical precrash event. If this vehicle is in a junction just prior to its critical precrash event, this element is coded based on the roadway this vehicle was on before entering the junction.

**Note regarding traffic calming devices from the MUTCD:**

**Although some highway design features, such as curbs, median barriers, guardrails, speed humps or tables, and textured pavement, have a significant impact on traffic operations and safety, they are not considered to be traffic control devices and provisions regarding their design and use are generally not included.**

Code the attribute indicated in the case materials if it directly matches.

Code this element whether the device was functioning or not. If more than one device is present, code the highest device (lowest number on list) most related to the crash.

There are two exceptions:

1. One exception is **50 (Person)** which includes a law enforcement officer, crossing guard, flagman, etc. **50 (Person)** takes precedence over the entire list.
2. The other exception is a **28 (Regulatory Speed Limit Sign)**. You may have a **28 (Regulatory Speed Limit Sign)** along with another Traffic Control Device (for example, a Warning Sign for a dangerous condition in which the Warning Sign is more relevant in the crash). In this case, the 40 (Warning Sign) is more appropriate to code.

**1 (No Controls)** is used if, at the time of the crash, there was no intent to control (regulate or warn) vehicle traffic. Use this attribute if statutory controls apply (e.g., state law requires that when two vehicles meet at an uncontrolled intersection, the one on the right has the right-of-way).

When a traffic control is deactivated (e.g., traffic signal that emits no signals) during certain times of the day and was deactivated at the time of the crash, code **00 (No Controls)**. A traffic control that has just been installed and not yet activated is also coded **00 (No Controls)**.

However, a traffic control that is out (e.g., due to a power failure) and was reported as such in the case materials is coded, unless a temporary control (e.g., stop sign, police officer, etc.) has been inserted, in which case the temporary control should be coded.

**2 (Traffic Control Signal [on colors] without Pedestrian Signal)** refers to any highway traffic signal by which traffic is alternatively directed to stop and permitted to proceed, utilizing the colors of red, yellow and green. This traffic control signal does not have a pedestrian control signal. The source of actuation is of no concern.

**3 (Traffic Control Signal [on colors] with Pedestrian Signal)** refers to any highway traffic signal by which traffic is alternatively directed to stop and permitted to proceed, utilizing the colors of red, yellow and green. This traffic control signal does have a pedestrian control signal. The source of actuation is of no concern.

**4 (Traffic Control Signal [on colors] not known whether or not Pedestrian Signal)** any highway traffic signal by which traffic is alternatively directed to stop and permitted to proceed, utilizing the colors of red, yellow and green. It is unknown if this traffic control signal has a pedestrian control signal. The source of actuation is of no concern.

**7 (Lane Use Control Signal)** is for permanent lane control electronic devices (i.e., overhead lights or "X" indicating lane open or closed for rush hour lanes, bridges or at tollbooths).

**8 (Other Highway Traffic Signal)** should be coded for traffic signals that are not covered in the preceding attributes. Use this attribute when a School Bus uses flashing lights to control traffic around the bus, regardless of any additional signs the school bus uses. For example, a school bus uses flashing lights and a stop sign on an arm to stop traffic around the school bus. This should only be used if the crash occurred during the time the sign was in effect.

**9 (Unknown Highway Traffic Signal)** is used with the investigating officer reported that the highway traffic signal was unknown at the time of crash.

**04 (Flashing Traffic Control Signal)** usually has a single colored head and flashes. Use this attribute if it is a Highway Traffic Signal that is flashing. This includes a flashing beacon. If a flashing red beacon appears with a stop sign, use this attribute.

Guide signs do not constitute traffic controls.

You may have a Regulatory Speed Limit Sign along with another Traffic Control Device (for example, a Warning Sign for a dangerous condition in which the Warning Sign is more relevant in the crash). In this case, the Warning Sign is more appropriate to code.

Another set of questions arises from the issue of proximity of the device to the crash. Judgment must be applied in these situations. Typical signs which create such problems are:

- Speed limit signs where a party to the crash may be speeding
- "Do Not Pass" signs where a no passing zone extends for miles but is only marked at the beginning of the zone
- Pedestrians Prohibited signs at entrances to freeways but a pedestrian crash occurs on the freeway between interchanges
- And other such signs which may pertain to a significant length of road.

In these instances, if the crash occurs within reasonably close proximity of the sign and the sign type is relevant to the crash then it may be appropriate to code the sign.

If there is a question as to which type a sign is, consult the Manual of Uniform Traffic Control Devices (MUTCD). Generally, the appropriate code should be used if a party to the crash failed to heed the sign, was in a position to be controlled by the sign, or the sign has some relationship to the crash. For example, for a crash at a four-legged, two-way stop intersection where a driver fails to stop at the stop sign and collides with another vehicle, use the attribute **20 (Stop Sign)**. Conversely, at the same intersection, a driver on an approach not controlled by a stop sign loses control and strikes a utility pole. In this case, **20 (Stop Sign)** would not be appropriate.

Pavement markings are not considered as traffic control devices.

**20 (Stop Sign)** is a traffic sign used to control vehicular traffic, usually erected at road junctions, that instructs drivers to stop and then to proceed only if the way ahead is clear. This attribute does not include Stop Signs at Rail Grade Crossings. Stop Signs at Rail Grade Crossings are coded **65 (Railway Crossing Device)**.

**21 (Yield Sign)** indicates that a vehicle driver must slow down and prepare to stop if necessary usually while merging into traffic on another road but needn't stop if the way is clear. This attribute does not include Yield Signs at Rail Grade Crossings. Yield Signs at Rail Grade Crossings are coded **65 (Railway Crossing Device)**.

### **28 (Other Regulatory Sign)**

Regulatory signs inform highway users of traffic laws or regulations and indicate the applicability of legal requirements that would not otherwise be apparent.

Examples of Regulatory Signs other than 20 (Stop Sign) or 21 (Yield Sign) are:

- Speed Limit signs
- Turn Prohibition signs
- Do Not Pass
- Do Not Enter signs
- Wrong-way
- One-way signs
- Road Closed signs
- Hazardous Cargo signs.

**29 (Unknown Regulatory Sign)** is used with the investigating officer reported that the regulatory sign was unknown at the time of crash.

**23 (School Zone Sign/Device)** is used when the first harmful event occurred during the time the sign was in effect. If the sign was in effect, it does not matter whether or not children were present. Some **23 (School Zone Signs/Devices)** can be flashing, if this is the case, use this attribute before using **04 (Flashing Traffic Control Signal)**.

**40 (Warning Sign)** is used when it is deemed necessary to warn traffic of existing or potentially hazardous conditions on or adjacent to a highway or street.

Examples of Warning Signs:

- Work/Construction Zone related signs (Lane Shift, Uneven Surface, Workers Ahead, etc.)
- Changes in Horizontal Alignment signs (Hill, Curve, etc.),
- Road Narrows,
- Divided Road/Divided Road Ends,
- Low Clearance,
- Road Surface Condition signs (Bump, Slippery When Wet, etc.),
- Traffic Flow signs (Merge, Two-way Traffic, No Passing Zone etc.)
- This includes electronic warning signs such as portable signs, (i.e., attached to a vehicle), or stationary devices.
- Flashing lights on an approaching train.

**65 (Railway Crossing Device)** is used to control or warn vehicular traffic at a railway crossing.

Examples:

- Flashing Lights
- Wigwags
- Bells
- Cross Bucks
- Stop Signs at Rail Grade Crossing
- Yield Signs at Rail Grade Crossings

**50 (Person)** is someone, (e.g., police officer, crossing guard, flagman or officially designated person), that is in the act of controlling both vehicular and pedestrian traffic.

**98 (Other)** includes: any other device, which (a) functions as a traffic control device which is not listed as an attribute of this data element and (b) is not excluded by the manual and (c) is related to the crash. Some examples are: barricades, cones, drums and object markers.

**97 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **97 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown)** is used if the investigating officer reported that the traffic control device at the time of crash was not known.

Consistency Checks:

IF	THEN
(520F) FIRST HARMFUL EVENT equals 10,	TRAFFIC CONTROL DEVICE must not equal 01-04, 07-09, 20-50, 98 for the vehicle involved in the first harmful event.
(610P) TRAFFIC CONTROL DEVICE equals 00,	DEVICE FUNCTIONING must equal 0.
(640F) TRAFFIC CONTROL DEVICE equals 23 for any vehicle,	RELATED FACTORS-CRASH LEVEL should equal 21.
(641F) RELATED FACTORS-CRASH LEVEL equals 21,	TRAFFIC CONTROL DEVICE should not equal 00 for every vehicle.

	IF	THEN
(642F)	TRAFFIC CONTROL DEVICE equals 00 for any vehicle,	RELATED FACTORS-CRASH LEVEL should not equal 21.
(650P)	TRAFFIC CONTROL DEVICE equals 65 for any vehicle,	RAIL GRADE CROSSING IDENTIFIER must not equal 0000000.
(660P)	TRAFFIC CONTROL DEVICE is not equal to 00,	DEVICE FUNCTIONING must not equal 0.
(660Q)	<b><i>TRAFFIC CONTROL DEVICE does not equal 97,</i></b>	<b><i>it is unlikely that DEVICE FUNCTIONING equals 8.</i></b>
(661P)	TRAFFIC CONTROL DEVICE equals 97,	DEVICE FUNCTIONING must equal 8.
(A1B0)	TRAFFIC CONTROL DEVICE equals 20-21 for a vehicle involved in the first harmful event,	RELATION TO JUNCTION (b) should not equal 01, 18.
(A210)	ROADWAY FUNCTION CLASS equals 01, 11, 12, and RELATION TO JUNCTION (a) equals 0,	TRAFFIC CONTROL DEVICE should not equal 01-04, 07, 20, 23, 40, 50, 65.
(A270)	any VIOLATIONS CHARGED equals 31-35, 37,	TRAFFIC CONTROL DEVICE should equal 01-20, 98.
(A293)	WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 02, 03,	TRAFFIC CONTROL DEVICE should equal 01-03, 20, 40, 97 or 98 for the vehicle(s) involved in the first harmful event.
(A294)	WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 01, 04, 05, 08, 17-19,	TRAFFIC CONTROL DEVICE should equal 00, 21, 28, 40, 50, 97 or 98 for the vehicle(s) involved in the first harmful event.
(A440)	RELATION TO JUNCTION (b) equals 06,	TRAFFIC CONTROL DEVICE should equal 65 for any vehicle involved in the first harmful event.
(A520)	SEQUENCE OF EVENTS equals 10,	TRAFFIC CONTROL DEVICE should not equal 01-09, 20-29, 40-50, 98.
(A770)	FIRST HARMFUL EVENT equals 46,	TRAFFIC CONTROL DEVICE should equal 01-04 for the vehicle involved in the first harmful event.
(A780)	FIRST HARMFUL EVENT equals 46,	TRAFFIC CONTROL DEVICE should not equal 00 for the vehicle involved in the first harmful event.
(A890)	RELATION TO JUNCTION (b) equals 01,	TRAFFIC CONTROL DEVICE should not equal 01-03 for any vehicle involved in the first harmful event.
(PB06)	PEDESTRIAN/BIKE TYPING - <b><i>CRASH TYPE - PEDESTRIAN</i></b> equals 730,	TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-03.

	IF	THEN
(PB09)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLE</b> equals 141, 143, 151-158, 217 or 218,	TRAFFIC CONTROL DEVICE for the striking vehicle must not equal 00.
(PB10)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLE</b> equals 151, 156, 157, 217 or 218,	TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-04.
(PB11)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLE</b> equals 143 or 154,	TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-04, 20, 21, 28 or 29.
(PB21)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLE</b> equals 160,	TRAFFIC CONTROL DEVICE for the striking vehicle should equal 00.

**Consistency Check (GES Only):**

	IF	THEN
(A930)	INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20,	TRAFFIC CONTROL DEVICE should not equal 01-03, 20, 23 or 65 for at least one vehicle involved in the first harmful event.

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## **DEVICE FUNCTIONING**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.VTCONT\_F

**ELEMENT VALUES:**

- 0 No Controls
- 1 Device Not Functioning
- 2 Device Functioning - Functioning Improperly
- 3 Device Functioning Properly
- 8 Not Reported
- 9 Unknown

**Definition:** This element identifies the functionality of the traffic control device recorded for this vehicle in the element Traffic Control Device.

**Remarks:**

This data element is coded with respect to the control selected in the element Traffic Control Device.

**1 (Device Not Functioning)** is used when the device is not functioning at all (e.g., signal out, sign knocked down).

**2 (Device Functioning - Functioning Improperly)** is used when the device was functioning to an extent but not as intended (e.g., red signal lamp burned out, sign twisted or obscured by vegetation).

**3 (Device Functioning Properly) is used when the traffic control device was functioning as designed at the time of the crash.**

**As a default rule, if the device is listed as present, code 3 (Device Functioning Properly) unless specified otherwise. For example, the PAR indicates a stop sign is applicable to a vehicle at intersection crash and there is no mention of it functioning improperly, it is assumed the stop sign was functional.**

**8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported".

Code **Not Reported** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**9 (Unknown)** is used if the investigating officer reported that it was unknown if the traffic control device was functioning at the time of crash.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(610P)	TRAFFIC CONTROL DEVICE equals 00,	DEVICE FUNCTIONING must equal 0.
(660P)	TRAFFIC CONTROL DEVICE is not equal to 00,	DEVICE FUNCTIONING must not equal 0.
(661P)	TRAFFIC CONTROL DEVICE equals 97,	DEVICE FUNCTIONING must equal 8.
<b>(660Q)</b>	<b><i>TRAFFIC CONTROL DEVICE does not equal 97,</i></b>	<b><i>it is unlikely that DEVICE FUNCTIONING equals 8.</i></b>

## **DRIVER'S VISION OBSCURED BY**

**FORMAT:** 2 numeric. Select all the apply.

**SAS NAME:** Vision.MVISOBSC

**ELEMENT VALUES:**

- 1 No Obstruction Noted
- 2 Rain, Snow, Fog, Smoke, Sand, Dust
- 3 Reflected Glare, Bright Sunlight, Headlights
- 4 Curve, Hill or Other Roadway Design Feature
- 5 Building, Billboard, Other Structure
- 6 Trees, Crops, Vegetation
- 7 In-Transport Motor Vehicle (including load)
- 8 Not In-Transport Motor Vehicle (parked/working)
- 9 Splash or Spray of Passing Vehicle
- 10 Inadequate Defrost or Defog System
- 11 Inadequate Vehicle Lighting System
- 12 Obstruction Interior to the Vehicle
- 13 External Mirrors
- 14 Broken or Improperly Cleaned Windshield
- 15 Obstructing Angles on Vehicle
- 95 No Driver Present / Unknown if Driver Present
- 97 Vision Obscured – No Details
- 98 Other Visual Obstruction
- 99 Unknown

**Definition:** This data element records impediments to a driver's visual field that were noted in the case materials.

**Remarks:**

These "visual obstructions" can appear anywhere in the case materials. Examples include a field on the PAR (e.g., "Contributing Factors"), in the narrative section, in the violations section, or in witness statements.

**1 (No Obstruction Noted)** is used when the case materials give no indication of a visual obstruction for this driver.

**2 (Rain, Snow, Fog, Smoke, Sand, Dust)** is used when one or more of these conditions exist AND are noted to have obstructed the view of the driver. Do not use this attribute when only the vehicle windshield is described as "fogged". (See **09 (Inadequate Defrost or Defog System)** or **13 (Broken or Improperly Cleaned Windshield)**.)

**3 (Reflected Glare, Bright Sunlight, Headlights)** is used when one or more of these conditions are noted to have obstructed the view of the driver.

**4 (Curve, Hill or Other Roadway Design Feature)** is used when any of these roadway features or design elements is noted to have obstructed the view of the driver (including embankment, sag, etc.).

**5 (Building, Billboard, Other Structure)** is used when any of these man-made structures are noted to have obstructed the view of the driver (including traffic signs, poles, signals, etc.).

**6 (Trees, Crops, Vegetation)** is used when any of these natural features are noted to have obstructed the view of the driver.

**7 (In-Transport Motor Vehicle [including load])** is used when a vehicle that is in motion or stopped on the roadway is noted to have obstructed the view of the driver. The vehicle may be but does not have to be a contact vehicle in the case.

**8 (Not In-Transport Motor Vehicle [parked, working])** is used when a vehicle that is parked in a designated parking area or space, stopped in an area off the roadway or is a working motor vehicle is noted to have obstructed the view of the driver. The vehicle may be but does not have to be a contact vehicle in the case.

**9 (Splash or Spray of Passing Vehicle)** is used when this condition is noted to have obstructed the view of the driver. The splash or spray can come from water or mud; however the use of this attribute does not require it to be raining at the time of the crash.

**10 (Inadequate Defrost or Defog System)** is used when the presence of frost or fog on the windshield was noted as being due to an inadequate system. The case materials must state specifically that the system was not operating properly. If the case material states the presence of frost or fog alone on the windshield you should use **13 (Broken or Improperly Cleaned Windshield)**.

**11 (Inadequate Vehicle Lighting System)** is used when the case materials indicate this driver's vision was impaired because the exterior lighting system (including head-lights, fog-lights, etc., of the driver's vehicle was deficient in some way. This would include being turned off or not operating properly. This response should not be used to describe inadequate lighting systems of other vehicles (e.g., oncoming motor vehicles) or for inadequate highway lighting.

**12 (Obstruction Interior to the Vehicle)** is used when the case materials indicate this driver's vision was impaired because of a feature in the interior of their vehicle (including head restraint, rear-view mirror, window stickers, sun shades, ornaments, windshield tinting).

**13 (External Mirrors)** is used when the case materials indicate that an exterior mirror on this driver's vehicle created a visual obstruction.

**14 (Broken or Improperly Cleaned Windshield)** is used when this condition is noted to have obstructed the view of the driver. The presence of frost or fog on the windshield would apply.

For a “fogged” or “frosted” windshield due to an inadequate or inoperable system see **09 (Inadequate Defrost or Defog System)**.

**15 (Obstructing Angles on Vehicle)** is used when the case materials indicate that the size or shape of a driver's own vehicle created a visual obstruction (including trailer, vehicle height, blind spot). Not to be confused with visual obstructions from other vehicles or a vehicle's interior components such as head restraints, sun shades, etc.

**95 (No Driver Present/Unknown if Driver Present)** is used when there is no driver in this vehicle or when it is unknown if there is a driver present in this vehicle at the time of the crash.

**97 (Vision Obscured - No Details)** is used when the case materials indicate that a vision impediment exists but does not clearly indicate the nature of the impediment.

**98 (Other Visual Obstruction)** is used when the case materials indicate the nature of a vision impediment that cannot be attributed to one of the other attributes above. For example, an unattached trailer left on the road shoulder.

**99 (Unknown)** is used when the case materials specifically indicate unknown. Also use this response when hit and run drivers are involved, unless the case materials provide specific information about driver vision obscured.

#### **Consistency Checks:**

IF	THEN
(1HJF) DRIVER'S VISION OBSCURED BY equals 95,	DRIVER PRESENCE must equal 0 or 9.
(1L2P) any DRIVER'S VISION OBSCURED BY equals 00 or 95 or 99,	only that one code and no other must be coded for this vehicle.
(1L4P) any DRIVER'S VISION OBSCURED BY equals 09,	at least one CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must equal 97.
(1L5P) any DRIVER'S VISION OBSCURED BY equals 10,	at least one CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must equal 07 or 08 or 09.
(2H1F) UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,	DRIVER'S VISION OBSCURED BY must equal 95.
(A1C0) ROADWAY SURFACE CONDITIONS equals 01,	DRIVER'S VISION OBSCURED BY should not equal 08.
(PB31) PEDESTRIAN/BIKE TYPING - BICYCLIST CRASH TYPE equals 147, 157 or 357,	at least one DRIVER'S VISION OBSCURED BY must equal 06 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.

	<b>IF</b>	<b>THEN</b>
(PB32)	PEDESTRIAN/BIKE TYPING - PEDESTRIAN CRASH TYPE equals 742,	at least one DRIVER'S VISION OBSCURED BY must not equal 00 or 95 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. DRIVER'S VISION OBSCURED BY for the striking vehicle must not equal 06.
(PB33)	PEDESTRIAN/BIKE TYPING - BICYCLIST CRASH TYPE equals 156,	

## **DRIVER MANEUVERED TO AVOID**

**FORMAT:** 2 numeric. Select all that apply

**SAS NAME:** Maneuver.MDRMANAV

**ELEMENT VALUES:**

- 1 Driver Did Not Maneuver To Avoid
- 2 Object
- 3 Poor Road Conditions (Puddle, Ice, Pothole, etc.)
- 4 Live Animal
- 5 Motor Vehicle
- 6 Pedestrian, Pedalcyclist or Other Non-Motorist
- 92 Phantom/Non-Contact Motor Vehicle
- 95 No Driver Present / Unknown if Driver Present
- 98 Not Reported
- 99 Unknown

**Definition:** This data element identifies the thing(s) the driver attempted to avoid while the vehicle was on the road portion of the trafficway, just prior to the first harmful event for this vehicle.

**Remarks:**

The “road” by definition includes the roadway and shoulder/parking lane portions, when a shoulder/ parking lane is present. The source for this data is the crash report narrative or related crash report form fields as completed by the investigating officer. It is the officer’s assessment. Consequently, do not consider items noted only in driver or witness statement documentation unless verified by being reported in the crash report narrative.

Code the thing(s) the driver tried to avoid whether the maneuver was successful or not (i.e., whether or not the driver was able to avoid the object, poor road condition, animal, vehicle or non-motorist).

**1 (Driver Did Not Maneuver to Avoid)** is used when:

- The crash report indicates that no avoidance maneuvers were taken by the driver.
- The avoidance maneuver(s) occurred after the first harmful event for the vehicle.
- The avoidance maneuver occurred when the vehicle was not on a roadway, shoulder or parking lane.

**2 (Object)** is used when the driver attempted to avoid a non-fixed object such as; an animal carcass, an unattached trailer, a bicycle without a rider, downed tree limbs or power lines, debris from a previous crash, rocks that fall from an adjacent hillside, a load that fell from another vehicle, debris left from a tire blowout, etc.

**3 (Poor Road Conditions [Puddle, Ice, Pothole, etc.])** is used when the driver maneuvered to avoid the location of a road condition. Treat the condition as if it were an object. Do not use this attribute if the driver lost control while traveling on/over the road condition but made no maneuver to avoid it.

**4 (Live Animal)** is used when the driver attempted to avoid a live animal that is stationary or moving. A dead animal carcass is considered debris and coded as **01 (Object)**.

**5 (Motor Vehicle)** is used when the driver attempted to avoid another contact motor vehicle in the crash (receives a vehicle form). This includes in-transport, parked or working motor vehicles. A trailer not connected to a motor vehicle would be considered a **01 (Object)**.

**6 (Pedestrian, Pedalcyclist or Other Non-Motorist)** is used when the driver attempts to avoid a pedestrian, pedalcyclist or other non-motorist. Other Non-motorist would include persons riding on an animal, or in an animal drawn conveyance or on a personal conveyance. A person killed in a previous crash or an unoccupied pedalcycle or personal conveyance would be considered a **01 (Object)**.

**92 (Phantom/Non-Contact Motor Vehicle)** is used when the driver attempted to avoid another motor vehicle in the crash that was reported as a non-contact or phantom vehicle (does not receive a vehicle form). This includes in-transport, parked or working motor vehicles. A trailer not connected to a motor vehicle would be considered a **01 (Object)**.

**95 (No Driver Present/Unknown if Driver Present)** is used when there is no driver in this vehicle or when it is unknown if there is a driver present in this vehicle at the time of the crash.

### **98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown)** is used when the information about a particular vehicle's circumstances are reported as "unknown". Examples include a hit-and-run driver that is not apprehended, or a fatal crash discovered weeks after the crash occurred.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(3BCP)	CRASH TYPE equals 34, 36, 38, 40, 54, 56, 58 or 60,	DRIVER MANEUVERED TO AVOID must not equal 00.
(9C4P)	UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,	DRIVER MANEUVERED TO AVOID must only equal 95.
(9C5P)	DRIVER MANEUVERED TO AVOID equals 95,	DRIVER PRESENCE must equal 0 or 9.
(AZ6P)	any DRIVER MANEUVERED TO AVOID equals 00,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 17. only that one code and no other must be coded for this vehicle.
(AZ7P)	any DRIVER MANEUVERED TO AVOID equals 00 or 95 or 98 or 99,	CRITICAL EVENT – PRECRASH (EVENT) should equal 87-89.
(AZBP)	any DRIVER MANEUVERED TO AVOID equals 03,	CRITICAL EVENT – PRECRASH (EVENT) should equal 80-85.
(AZCP)	any DRIVER MANEUVERED TO AVOID equals 05,	CRITICAL EVENT – PRECRASH (EVENT) should equal 90-92.
(AZEP)	any DRIVER MANEUVERED TO AVOID equals 01,	<b>NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.</b>
<b>(AZDQ)</b>	<b>DRIVER MANEUVERED TO AVOID equals 04,</b>	DRIVER MANEUVERED TO AVOID should equal 00.
(B10P)	<b>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) does not equal 17, and ATTEMPTED AVOIDANCE MANUEVER equals 01,</b>	
(V59Q)	<b>ATTEMPTED AVOIDANCE MANEUVER equals 99,</b>	<b>DRIVER MANEUVERED TO AVOID should equal 00, 98 or 99.</b>

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## **DRIVER DISTRACTED BY**

**FORMAT:** 2 numeric. Select all the apply.

**SAS NAME:** Distract.MDRDSTRD

**ELEMENT VALUES:**

- 1 Not Distracted
- 2 Looked But Did Not See
- 16 No Driver Present /Unknown if Driver Present
- 96 Not Reported

**DISTRACTIONS:**

- 3 By Other Occupant(s)
- 4 By a Moving Object in Vehicle
- 5 While Talking or Listening to Cellular Phone
- 6 While Manipulating Cellular Phone
- 7 Adjusting Audio or Climate Controls
- 9 While Using Other Component/Controls Integral to Vehicle
- 10 While Using or Reaching For Device/Object Brought Into Vehicle
- 12 Distracted by Outside Person, Object or Event
- 13 Eating or Drinking
- 14 Smoking Related
- 15 Other Cellular Phone Related
- 17 Distraction/Inattention
- 18 Distraction/Careless
- 19 Careless/Inattentive
- 92 Distraction (Distracted), Details Unknown
- 93 Inattention (Inattentive), Details Unknown
- 97 Lost in Thought / Day Dreaming
- 98 Other Distraction
- 99 Unknown if Distracted

**Definition:** This element identifies the attribute(s) which best describe this driver's attention to driving prior to the driver's realization of an impending critical event or just prior to impact if realization of an impending critical event does not occur. Distraction from the primary task of driving occurs when drivers divert their attention from the driving task to some other activity. Also, driving while daydreaming or lost in thought is identified as distracted driving by NHTSA. Physical conditions/impairments (fatigue, alcohol, medical condition, etc.) or psychological states (anger, emotional, depressed, etc.) are not identified as distractions by NHTSA.

**Analytical Note:** The attributes in this element are presented to provide selections that most unambiguously match what can be encountered in various presentations on state crash report

forms. They are not all considered “distractions” as defined by NHTSA. Data in the public output files for Driver Distracted By will not be presented exactly as displayed in this element’s attribute listing.

#### **Remarks:**

Record the attribute(s) which best describe this driver’s attention to driving prior to the driver’s realization of an impending critical event or just prior to impact if realization of an impending critical event does not occur. If this driver’s vehicle has two critical crash envelopes, record the attribute(s) which best describe the driver’s attention prior to the first Critical Precrash Event (i.e., prior to realization of the impending danger which the driver successfully avoided). Intoxication, Ill, Blackout, Asleep or Fatigued are not considered distractions. This information is captured under the data element Driver Condition.

Driver Distracted By is a “Select all that apply” element. If the element values **00 (Not Distracted)**, **01 (Looked But Did Not See)**, **16 (No Driver Present)**, **17 (Distraction/Inattention)**, **18 (Distraction/Careless)**, **19 (Careless/Inattentive)**, **92 (Distraction [Distracted], Details Unknown)**, **93 (Inattention [Inattentive], Details Unknown)**, **96 (Not Reported)**, or **99 (Unknown if Distracted)** are selected, then only that one element value may be used.

#### **Witness Statements:**

When coding Driver Distracted By, witness statements, including those from vehicle passengers or pedestrians, may be used to provide information when police sources are unavailable. The officer’s assessment on the PAR will take precedent over items reported in a witness statement document in all cases. The officer’s assessment includes any statements from a witness included by the officer as part of the PAR narrative. In absence of indication on the PAR, information that is in direct contradiction in two witness statements will not be included.

#### **1 (Not Distracted)**

- When the case materials indicate that the individual was completely attentive to driving and **01 (Looked But Did Not See)** does not apply.
- When the case materials do not indicate a distraction in an available field and not reporting a distraction in that field indicates **00 (Not Distracted)**.
- When the investigating officer is limited in selection and cannot select a distraction in addition to another factor relevant to crash and no other indication of distraction exists in the case materials.
- For omission of information see **96 (Not Reported)** guidance below.

**2 (Looked But Did Not See)** is used when the driver is paying attention to driving (not distracted), but does not see the relevant vehicle, object, etc. This attribute should be used when a driver has an opportunity to take some action prior to impact, but the driver takes no action and no distractions apply. This situation frequently occurs when an overtaking vehicle is in the driver’s “blind spot” or at intersections when a crossing vehicle is not noticed. If the

driver sees the vehicle, object, etc., but does not consider it a danger, and no distractions apply then the **00 (Not Distracted)** would be used.

**16 (No Driver Present/Unknown if Driver Present)** is used when there is no driver in this vehicle or when it is unknown if there is a driver present in this vehicle at the time of the crash.

### **96 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **96 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

### **DISTRACTIONS:**

**3 (By Other Occupant[s])** is used when the driver was distracted by another occupant in this driver's vehicle prior to realization of impending danger. Examples of other occupant distraction include conversing with or looking at another occupant e.g., baby/child in back seat, rowdy teenager, argumentative spouse, etc.

**4 (By a Moving Object in Vehicle)** is used when the driver was distracted by a moving object in this driver's vehicle prior to realization of impending danger. Examples include a dropped object, a moving pet, insect or cargo.

**5 (While Talking or Listening to Cellular Phone)** is used when the driver is talking or listening on a cellular phone. This attribute includes talking or listening on a "hands-free" or Bluetooth enabled phone.

**6 (While Manipulating Cellular Phone)** is used when the driver is dialing or text messaging (texting) on a cellular phone. Any manual button/control actuation on the phone qualifies. This includes dialing or text messaging on any wireless e-mail device.

**7 (Adjusting Audio or Climate Controls)** is used when someone is distracted from the driving task while adjusting the air conditioner, heater, radio, cassette, using the radio, using the cassette or CD that are mounted in the vehicle.

**9 (While Using Other Component/Controls Integral to Vehicle)** is used when the driver is distracted while manipulating a control in the vehicle including adjusting headlamps or interior

lights, controlling windows (power or manual) manipulating door locks (power or manual), adjusting side view mirrors (power or manual), adjusting rear view mirror, adjusting seat (power or manual), adjusting steering wheel and adjusting seat belt, on-board navigational devices, etc. (original equipment).

**10 (While Using or Reaching For Device/Object Brought Into Vehicle)** is used when the driver is distracted while using or reaching for a device in the vehicle including a radar detector, CDs, razors, music portable CD player, headphones, a navigational device, laptop or tablet PC, etc. This attribute is also used when it can not be determined if the involved device was OEM, brought into the vehicle, or a function of a cell phone (i.e. GPS).

If it is unknown if the device or object was brought into the vehicle or was original equipment on this vehicle default to brought into vehicle and use attribute **10 (While Using or Reaching for Device/Object Brought Into Vehicle)**.

**12 (Distracted By Outside Person, Object or Event)** is used when the driver was distracted by an outside person, object or event prior to realization of impending danger. Examples include animals on the roadside, a previous crash or non-traffic related signs e.g., advertisements, electronic billboards, etc. Do not use this attribute for a person, object or event that the driver has recognized and for which the driver has taken some action (e.g., avoiding a pedestrian on the roadway).

**13 (Eating or Drinking)** is used when the driver is eating or drinking or involved in an activity related to these actions (e.g., picking food from carton placed on passenger seat, reaching to throw out used food wrapper, etc.)

**14 (Smoking Related)** is used when the driver is smoking or involved in an activity related to smoking, such as lighting his cigarette, putting his ashes in the ash tray, etc. Any method of lighting the cigarette would be coded **14 (Smoking Related)**.

**15 (Other Cellular Phone Related)** is used when the case material indicates the driver is distracted from the driving task due to cellular phone involvement, but none of the specified codes are applicable (e.g., reaching for cellular phone, etc.). This attribute is also applied when specific details regarding cellular phone distraction / usage are not provided.

**17 (Distraction/Inattention)** is used exclusively when “Distraction/Inattention” or “Inattention/Distraction” are noted in the case materials as one combined attribute and it cannot be determined which Driver Distracted By attribute is intended, **92 (Distraction [Distracted], Details Unknown)** or **93 (Inattention [Inattentive], Details Unknown)**.

**18 (Distraction/Careless)** is used exclusively when “Distraction/Careless” or “Careless/Distraction” are noted in the case materials as one combined attribute and it cannot be determined which Driver Distracted By attribute applies.

**19 (Careless/Inattentive)** is used exclusively when “Careless/Inattentive” or “Inattentive/Careless” are noted in the case materials as one combined attribute and it cannot be determined which Driver Distracted By attribute applies.

**92 (Distraction [Distracted], Details Unknown)** is used when “distraction” or “distracted” are noted in the case materials, but specific distraction(s) cannot be identified. For non-specific “inattention” see attribute **93 (Inattention [Inattentive], Details Unknown)**.

**93 (Inattention [Inattentive], Details Unknown)** is used when “inattention” or “inattentive” are noted in the case materials, but it cannot be identified if this refers to a distraction(s).

**97 (Lost in Thought / Day Dreaming)** is used when the driver is not completely attentive to driving because he/she is thinking about items other than the driving task. For non-specific “distraction” see element value **92 (Distraction [Distracted], Details Unknown)**. For non-specific “inattention” see element value **93 (Inattention [Inattentive], Details Unknown)**.

**98 (Other Distraction)** is used when details regarding this driver’s distraction are known but none of the specified codes are applicable.

**99 (Unknown if Distracted)** is used when the case materials specifically indicates unknown. Also use this response when hit-and-run drivers are involved, unless the case material provides information about driver distraction/inattention.

#### Consistency Checks:

	<b>IF</b>	<b>THEN</b>
(BJ1P)	UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,	DRIVER DISTRACTED BY must equal 16.
(BJ2P)	UNIT TYPE equals 1, and DRIVER PRESENCE equals 1,	DRIVER DISTRACTED BY must not equal 16 or blank.
(BJ3P)	UNIT TYPE equals 1, and DRIVER DISTRACTED BY equals 16,	DRIVER PRESENCE must equal 0 or 9.
(BJ4P)	any DRIVER DISTRACTED BY equals 03,	NUMBER OF OCCUPANTS must be greater than 01.
(BJ7P)	any DRIVER DISTRACTED BY equals 00 or 01 or 16 or 17 or 18 or 19 or 92 or 93 or 96 or 99,	only that one code and no other must be used.

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## **PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT)**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.P\_Crash1

**ELEMENT VALUES:**

- 1 No Driver Present/Unknown if Driver Present
- 2 Going Straight
- 3 Decelerating In Road
- 4 Accelerating In Road
- 5 Starting In Road
- 6 Stopped In Roadway
- 7 Passing Or Overtaking Another Vehicle
- 8 Disabled Or "Parked" In Travel Lane
- 9 Leaving A Parking Position
- 10 Entering A Parking Position
- 11 Turning Right
- 12 Turning Left
- 13 Making A U-Turn
- 14 Backing Up (Other Than For Parking Position)
- 15 Negotiating A Curve
- 16 Changing Lanes
- 17 Merging
- 18 Successful Avoidance Maneuver To A Previous Critical Event
- 98 Other (Specify:)
- 99 Unknown

**Definition:** This element identifies the attribute that best describes this vehicle's activity prior to the driver's realization of an impending critical event or just prior to impact if the driver took no action or had no time to attempt any evasive maneuvers.

**Remarks:**

Record the attribute that best describes this vehicle's activity prior to the driver's realization of an impending critical event or just prior to impact if the driver took no action or had no time to attempt any evasive maneuvers.

Actions taken by the driver, of this vehicle, after realization of an impending danger are captured in Attempted Avoidance Maneuver.

**1 (No Driver Present/Unknown if Driver Present)** is pre-coded for in-transport motor vehicles when the element Driver Presence is coded as **0 (No Driver Present/Not Applicable)**.

**2 (Going Straight)** is used when this vehicle's path of travel was straight ahead without any attempted or intended changes. The coding of this attribute is not always dependent on the roadway alignment.

**3 (Decelerating In Road)** is used when this vehicle was traveling straight ahead within the road portion of the trafficway and was decelerating.

**4 (Accelerating In Road)** is used when this vehicle was traveling straight ahead within the road portion of the trafficway and was accelerating. **03 (Accelerating in Road)** must be explicitly stated by officer.

**5 (Starting In Road)** is used when this vehicle was in the process of starting forward from a stopped position within the road portion of the trafficway (e.g., start up from traffic signal).

**6 (Stopped In Roadway)** is used when this vehicle was stopped momentarily, with the motor running within the roadway portion of the trafficway (e.g., stopped for traffic signal).

**7 (Passing Or Overtaking Another Vehicle)** is used when this vehicle was traveling straight ahead and was in the process of passing or overtaking another vehicle on the left or right.  
Note: This attribute is not used in rear-end collisions. (See Table under PC19 - Precrash Event Scenarios for Different Rear-End Situations.)

**8 (Disabled Or “Parked” In Travel Lane)** is used when this vehicle was “parked” in a travel lane (e.g., double parked, disabled) with a driver present in the vehicle.

**9 (Leaving A Parking Position)** is used when this vehicle was entering the travel lane from a parking area adjacent to the traffic lanes. **This attribute includes vehicles that were previously stopped/parked on the shoulder, roadside, median, etc.**

**10 (Entering A Parking Position)** is used when this vehicle was leaving the travel lane to a parking area adjacent to the traffic lanes (i.e., in the process of parking). **This attribute includes vehicles that are stopping/parking on the shoulder, roadside, median, etc.**

**11 (Turning Right)** is used when this vehicle was moving forward and turned right, changing lanes from one roadway to a different roadway (e.g., from or to a driveway, parking lot or intersection).

**12 (Turning Left)** is used when this vehicle was moving forward and turned left, changing lanes from one roadway to a different roadway (e.g., from or to a driveway, parking lot or intersection).

**13 (Making a U-Turn)** is used when this vehicle was making a U-turn on the trafficway.

**14 (Backing Up [Other Than For Parking Position])** is used when this vehicle was traveling backwards within the trafficway. Do not use this attribute if the vehicle was backing into a parking space (See **09 (Entering a Parking Position)**.)

**15 (Negotiating A Curve)** is used when this vehicle was continuing along a road that curved to the right or left.

**16 (Changing Lanes)** is used when this vehicle was traveling straight ahead and changed travel lanes to the right or left while on the same roadway

**17 (Merging)** is used when this vehicle was moving forward and merging from the left or right into a traffic lane (e.g., roadway narrows, exit/entrance ramps).

**18 (Successful Avoidance Maneuver To A Previous Critical Event)** is used when this vehicle responded to a previous critical event and successfully avoided an impact. However, this maneuver precipitated a subsequent critical crash envelope, which resulted in this vehicle's first impact.

**98 (Other [Specify:J])** is used when this vehicle's pre-event movement is known but none of the specified attributes are applicable. The movement must be specified in the "specify box".

\*Note: for attributes with a "Specify:" designation, a fill-in text box will open in MDE. This text box should be used to provide additional detail about the attribute selection.  
***Please include a specific reason for this selection.***

**99 (Unknown)** is used when the vehicle's movement prior to the driver's realization of an impending critical event is unknown.

#### **Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(3B4P)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10,	CRASH TYPE must not equal 44-69, 71-73, 76, 77, 79, 81-83, 86-92.
(3B5P)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 11,	CRASH TYPE must not equal 44-67, 69-71, 73, 77-81, 83, 86-92.
(3BDP)	CRASH TYPE equals 46, 47, and ATTEMPTED AVOIDANCE MANEUVER equals 01 or 99,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 01.
(3BFP)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 08 or 09,	CRASH TYPE must not equal 46 or 47.
(3BGP)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,	DRIVER PRESENCE must equal 0 or 9.
(3C00)	CRASH TYPE equals 68, 72, 76 or 82,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11 or 98.

IF	THEN
(3C10) CRASH TYPE equals 70, 78 or 80,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10 or 98.
(3C20) this vehicle is involved in the First Harmful Event and its CRASH TYPE equals 29-31,	this vehicle's PRE-EVENT (MOVEMENT PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 02.
(3C30) PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 12,	CRASH TYPE should equal 98.
(3C40) CRASH TYPE equals 46,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 07, 09 or 12.
(3C50) CRASH TYPE equals 92,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 08, 09, 13, 98, 99.
(3C60) CRASH TYPE equals 25-27, 29-31,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should not equal 05 or 07.
(3C70) PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13,	CRASH TYPE should equal 92 or 98.
(3C80) CRASH TYPE equals 47,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 06, 08 or 11.
(3D60) CRASH TYPE equals 46 or 47,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should not equal 01. CRASH TYPE should equal 44-49, 98, 99 for the vehicles involved in the first harmful event.
(9BAP) MANNER OF COLLISION equals 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the first harmful event,	CRASH TYPE should equal 64-67, 98, 99 for the vehicles involved in the first harmful event.
(9BCP) MANNER OF COLLISION equals 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the first harmful event,	

	IF	THEN
(A430)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10, 11 for a vehicle involved in the first harmful event,	RELATION TO JUNCTION (b) should not equal 01, 18.
(A4C0)	RELATION TO JUNCTION (b) equals 04,	at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) for the vehicles involved in the first harmful event should equal 10, 11, 13 or 98. ROADWAY ALIGNMENT must equal 2-4.
(A4D0)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 14,	ROADWAY ALIGNMENT should not equal 2-4.
(A4D1)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 01,	CRASH TYPE should equal 13 for the vehicle involved in the first harmful event.
(A61F)	FIRST HARMFUL EVENT equals 08, 09, 11, 15, 49, and RELATION TO TRAFFICWAY equals 01, 02, 07, 11, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) is not equal to 00, 13 for the vehicle involved in the first harmful event,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.
(AZ20)	UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,	ATTEMPTED AVOIDANCE MANEUVER must equal 00.
(AZ30)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,	PRE-IMPACT STABILITY must equal 0.
(AZ50)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.
(AZ60)	PRE-IMPACT STABILITY equals 0,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 17.
(AZ6P)	any DRIVER MANEUVERED TO AVOID equals 00,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.
(AZ70)	PRE-IMPACT LOCATION equals 0,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.
(AZ80)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,	PRE-IMPACT LOCATION must equal 0.

	IF	THEN
(AZA0)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 05 or 07,	TRAVEL SPEED should equal 000 for this vehicle.
(B10P)	<b><i>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) does not equal 17, and ATTEMPTED AVOIDANCE MANUEVER 01,</i></b>	<b><i>DRIVER MANEUVERED TO AVOID should equal 00.</i></b>
(PB17)	PEDESTRIAN/BIKE TYPING - <b><i>CRASH TYPE - PEDESTRIAN</i></b> for a person involved in the first harmful event equals 211-214 or 219,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, 13 or 97. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).
(PB40)	PEDESTRIAN/BIKE TYPING - <b><i>CRASH TYPE - BICYCLE</i></b> equals <b><i>610</i></b> ,	at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, or 13 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB41)	PEDESTRIAN/BIKE TYPING - <b><i>CRASH TYPE - BICYCLE</i></b> equals 215,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08 or 09 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB42)	PEDESTRIAN/BIKE TYPING - <b><i>CRASH TYPE - BICYCLE</i></b> equals 111, 211 or 212,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 11 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB43)	PEDESTRIAN/BIKE TYPING - <b><i>CRASH TYPE - BICYCLE</i></b> equals 112, 151, 213, 214, 217 or 218,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB45)	PEDESTRIAN/BIKE TYPING - <b><i>CRASH TYPE - PEDESTRIAN</i></b> equals 781 or 782,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 11 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.

	IF	THEN
(PB46)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLE</b> equals 221-225,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 01 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB49)	PERSON TYPE equals 05 or 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,	at least one PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 211-214 or 219.
(PB50)	PERSON TYPE equals 05 or 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10-12 or 16 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,	at least one PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 460, 510, 781, 782, 791, 792, 794, 795, or 799.
(PB52)	PERSON TYPE equals 06 or 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,	at least one PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLE</b> should equal <b>610</b> .
(PB56)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 791, 792, 794, 795,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. <b>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11.</b>
(PBA0)	<b>PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 111, 211, 212, and VEHICLE NUMBER - VEHICLE LEVEL equals NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,</b>	

	IF	THEN
(PBA1)	<b>PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 112, 151, 213, 214, 217 or 218, and VEHICLE NUMBER - VEHICLE LEVEL equals NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,</b>	<b>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10.</b>
(V535)	ATTEMPTED AVOIDANCE MANEUVER equals 00,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.
(V538)	JACKKNIFE equals 2,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 04, 05, 07-09 or 13 for this vehicle.

## **CRITICAL EVENT – PRECRASH (CATEGORY)**

**FORMAT:** 1 numeric

**SAS NAME:** none

### **ELEMENT VALUES:**

- 1 This Vehicle Loss of Control Due To:
- 2 This Vehicle Traveling
- 3 Other Motor Vehicle in Lane
- 4 Other Motor Vehicle Encroaching into Lane
- 5 Pedestrian or Pedalcyclist or Other Non-Motorist
- 6 Object or Animal
- 7 Other
- 9 Unknown

**Definition:** This element identifies the category of the event that was critical to this vehicle being involved in the crash.

### **Remarks:**

When more than one condition applies and it cannot be determined which one had a greater effect, choose the higher listed attribute (e.g., **1 (This Vehicle Loss of Control Due To:)** takes precedence over **2 (This Vehicle Traveling)**).

**1 (This Vehicle Loss of Control Due To:)** is used to identify situations where the critical factor leading to the collision involved control loss of this vehicle. Control loss can be related to either mechanical failure or environmentally induced vehicle instability.

**2 (This Vehicle Traveling)** is used to identify situations where the critical factor leading to the collision involves the travel path of this vehicle.

**3 (Other Motor Vehicle In Lane)** is used to identify situations where the critical factor leading to the collision involved the travel of the other vehicle in the same lane as this vehicle.

**4 (Other Motor Vehicle Encroaching Into Lane)** is used to identify situations where the critical factor leading to the collision involves the other vehicle's movement into or across this vehicle's travel lane from another lane, intersection, driveway or ramp.

**5 (Pedestrian or Pedalcyclist or Other Non-Motorist)** is used to identify situations where the critical factor leading to the collision for this vehicle involved a pedestrian, pedalcyclist or other non-motorist. A pedalcyclist is defined as a person riding a pedal power conveyance (e.g., bicycle, tricycle, etc.). A non-motorist is defined as a person riding on or in a conveyance

which is not motorized or propelled by pedaling (e.g., baby carriage, skate board, roller blades, etc.).

**6 (Object or Animal)** is used to identify situations where the critical factor leading to the collision for this vehicle involved an object or animal.

**7 (Other)** is used when a critical factor not previously listed resulted in the collision for this vehicle. Previous impacts in the crash are not considered as other critical precrash events. For example, use this attribute if the critical event developed from this vehicle's departure from a driveway.

**9 (Unknown)** is used when the critical precrash event which resulted in the collision is unknown.

## Consistency Checks:

## **CRITICAL EVENT – PRECRASH (EVENT)**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.P\_Crash2

**ELEMENT VALUES:**

**THIS VEHICLE LOSS OF CONTROL DUE TO:**

- 1 Blow Out/Flat Tire
- 2 Stalled Engine
- 3 Disabling Vehicle Failure (e.g., Wheel Fell Off) (Specify:)
- 4 Non-Disabling Vehicle Problem (e.g., Hood Flew Up) (Specify:)
- 5 Poor Road Conditions (Puddle, Pothole, Ice, Etc.) (Specify:)
- 6 Traveling Too Fast For Conditions
- 8 Other Cause of Control Loss (Specify:)
- 9 Unknown Cause of Control Loss

**THIS VEHICLE TRAVELING**

- 10 Over the Lane Line on Left Side of Travel Lane
- 11 Over the Lane Line on Right Side of Travel Lane
- 12 Off The Edge of The Road on the Left Side
- 13 Off The Edge of The Road on the Right Side
- 14 End Departure
- 15 Turning Left at Junction
- 16 Turning Right at Junction
- 17 Crossing Over (Passing Through) Intersection
- 18 This Vehicle Decelerating
- 19 Unknown Travel Direction

**OTHER MOTOR VEHICLE IN LANE**

- 50 Other Vehicle Stopped
- 51 Traveling in Same Direction With Lower or Steady Speed
- 52 Traveling in Same Direction While Decelerating
- 53 Traveling in Same Direction With Higher Speed
- 54 Traveling in Opposite Direction
- 55 In Crossover
- 56 Backing
- 59 Unknown Travel Direction Of The Other Motor Vehicle In Lane

**OTHER MOTOR VEHICLE ENCROACHING INTO LANE**

- 60 From Adjacent Lane (Same Direction) Over Left Lane Line
- 61 From Adjacent Lane (Same Direction) Over Right Lane Line
- 62 From Opposite Direction Over Left Lane Line
- 63 From Opposite Direction Over Right Lane Line

- 64 From Parking Lane, Median, Shoulder, Roadside
- 65 From Crossing Street, Turning Into Same Direction
- 66 From Crossing Street, Across Path
- 67 From Crossing Street, Turning Into Opposite Direction
- 68 From Crossing Street, Intended Path Not Known
- 70 From Driveway, Turning Into Same Direction
- 71 From Driveway, Across Path
- 72 From Driveway, Turning Into Opposite Direction
- 73 From Driveway, Intended Path Not Known
- 74 From Entrance to Limited Access Highway
- 78 Encroachment By Other Vehicle - Details Unknown

**PEDESTRIAN OR PEDALCYCLIST OR OTHER NON-MOTORIST**

- 80 Pedestrian in Road
- 81 Pedestrian Approaching Road
- 82 Pedestrian Unknown Location
- 83 Pedalcyclist or Other Non-Motorist in Road
- 84 Pedalcyclist or Other Non-Motorist Approaching Road
- 85 Pedalcyclist or Other Non-Motorist Unknown Location

**OBJECT OR ANIMAL**

- 87 Animal in Road
- 88 Animal Approaching Road
- 89 Animal - Unknown Location
- 90 Object in Road
- 91 Object Approaching Road
- 92 Object Unknown Location

**OTHER (SPECIFY:)**

- 98 Other Critical Precrash Event (Specify:)

**UNKNOWN:**

- 99 Unknown

**Definition:** This element identifies the critical event which made the crash imminent (i.e., something occurred which made the collision possible).

**Remarks:**

The selection of the Critical Precrash Category will determine what Critical Precrash Events are available to select.

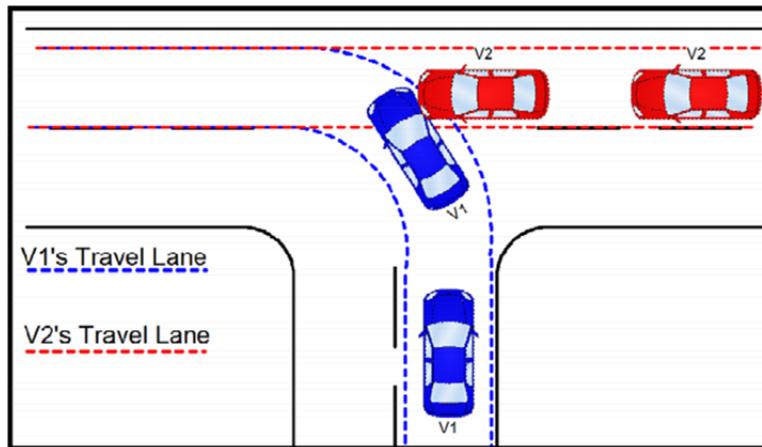
\*Note: for attributes with a “Specify:” designation, a fill-in text box will open in MDE. This text box should be used to provide additional detail about the attribute selection.  
**Please include a specific reason for this selection.**

Responsive actions to this situation, if any, are coded under Attempted Avoidance Maneuver.

A Critical Precrash Event is coded for each vehicle and identifies the circumstances leading to this vehicle's first impact in the crash.

Do not refer to culpability. Many crash scenarios will suggest fault, but this should be coincidental rather than by design. As an example, vehicle 1 was speeding when vehicle 2 crossed vehicle 1's path from a driveway. The situation which made the precrash event critical for vehicle 1 (since it did not lose control) was vehicle 2's movement across vehicle 1's path **and not** vehicle 1's speed.

When selecting events within the categories of THIS VEHICLE TRAVELING and OTHER MOTOR VEHICLE ENCROACHING INTO LANE for Critical Events occurring in intersections, a vehicle's "travel lane" extends through the intersection area even if no lane line markings are present within the intersection. For example, for a vehicle that is turning left, its original travel lane extends through the intersection to the lane into which it is turning. (See diagram below).



#### This Vehicle Loss Of Control Due To:

- 1 **(Blow Out or Flat Tire)** is used when a vehicle in motion loses control as the result of an immediate tire disruption. Examples include blow out, rapid air loss, tread separation, etc.
- 2 **(Stalled Engine)** refers to a vehicle which is in motion and loses engine power. A stalled engine situation must precipitate a collision to be coded in this element. A vehicle that is stopped as the result of an engine malfunction does not take this attribute.
- 3 **(Disabling Vehicle Failure [e.g., Wheel Fell Off] [Specify:]**) is selected when a mechanical malfunction, such as a component of the vehicle suspension or steering system, leads to the critical reason for the collision. (See "Note: for attributes with "specify:" designation at the beginning of Remarks section for this element.)
- 4 **(Non-Disabling Vehicle Problem [e.g., Hood Flew Up] [Specify:]**) is selected when some mechanical abnormality occurred to this vehicle which leads to the critical reason for the

collision. The abnormality must not be disabling damage. (See “Note: for attributes with “specify:” designation at the beginning of Remarks section for this element.)

**5 (Poor Road Conditions [Puddle, Pot Hole, Ice, Etc.] [Specify:])** captures control loss due to environmental conditions of the roadway. These conditions must have initiated the precrash event which resulted in the collision. (See “Note: for attributes with “specify:” designation at the beginning of Remarks section for this element.).

**6 (Traveling Too Fast For Conditions)** identifies this vehicle’s movement relative to its surroundings in which the subsequent loss of control lead to the collision. An example is a roadway departure on a curve where the driver failed to negotiate and departed the roadway resulting in an impact. If the driver merely steered straight while in a curve and departed the roadway, then the category This Vehicle Traveling may apply.

**8 (Other Cause of Control Loss [Specify:])** is selected when it was determined that this vehicle’s loss of control was the primary reason which made the event critical and the above attributes do not adequately identify the control loss condition. If control is loss due to driver illness such as heart attacks, diabetic comas, etc., then Critical Event - Precrash (Event) should be coded as **08 (Other cause of control loss [specify:]).** (See Note: for attributes with “specify:” designation at the beginning of Remarks section for this element.)

**9 (Unknown Cause of Control Loss)** is selected when it is known control loss made the situation critical, but it is unknown whether the vehicle or the environment caused the control loss.

### **This Vehicle Traveling**

These attributes identify situations where the critical factor leading to the collision involved the travel path of this vehicle.

**10 (Over the Lane Line on Left Side of Travel Lane)** is selected when this vehicle departs its lane to the left and is entering or had entered the adjoining lane or shoulder. The change of travel path by this vehicle must precipitate the critical event for the collision. As an example, this vehicle attempts to pass another vehicle on the other vehicle’s left and is struck by a vehicle traveling within its travel lane in the opposite direction.

However, by modifying the scenario slightly, the lane change may not always be the factor leading to the precrash event. Consider the same situation where this vehicle is passing to the left of the lead vehicle. If an animal runs into the roadway and is struck by this vehicle, then the correct choice would be **87 (Animal in Road).**

**11 (Over the Lane Line on Right Side of Travel Lane)** is selected when this vehicle departs its lane to the right and is entering or had entered the adjoining lane or shoulder. To use this attribute, change of travel path by this vehicle must precipitate the critical event for the collision. As an example, this vehicle attempts to pass another vehicle on the other vehicle’s right and is struck in the rear by a vehicle traveling within its travel lane in the same direction.

The correct choice for this vehicle would be **10 (Over the Lane Line on Right Side of Travel Lane)**.

However, by modifying the scenario slightly the lane change may not always be the factor leading to the precrash event. Consider the same situation where this vehicle is passing to the right of the lead vehicle. If an animal runs into the road and is struck by this vehicle, then the correct choice would be **87 (Animal in Road)**.

**12 (Off the Edge of the Road on the Left Side)** identifies a situation where the initial precrash event occurred beyond the left side shoulder area. This also includes departure into a median.

**13 (Off the Edge of the Road on the Right Side)** identifies a situation where the initial precrash event occurred beyond the right side shoulder area.

**14 (End Departure)** is used when the vehicle departs the end of the roadway (e.g., "T" intersection).

**15 (Turning Left at Junction)** is used when this vehicle attempts a left turn from its roadway to another roadway or driveway. If the critical event developed from this vehicles departure from a driveway code 98 (Other critical precrash event [specify:]).

**16 (Turning Right at Junction)** is used when this vehicle attempts a right turn from its roadway to another roadway or driveway. If the critical event developed from this vehicles departure from a driveway code 98 (Other critical precrash event [specify:]).

**17 (Crossing Over (Passing Through) Intersection)** identifies this vehicle's travel as proceeding through the intersection without any planned turning.

**18 (This Vehicle Decelerating)** is used when the vehicle is decelerating.

**19 (Unknown Travel Direction)** is used for those occasions where this vehicle's travel made the situation critical, but it is unknown which travel direction this vehicle was moving.

### **Other Motor Vehicle In Lane**

These attributes identify situations where the critical factor leading to the collision involved the travel of the other vehicle in the same lane as this vehicle. Note: For Rear-End collision situations involving three vehicles see table below Precrash Event Scenarios for Different Rear-End Collision Situations.

**50 (Other Vehicle Stopped)** identifies a situation where the other vehicle is not in motion (i.e., stopped, parked, disabled) and in this vehicle's travel lane.

**51 (Traveling in Same Direction with Lower Steady Speed)** is used when the other vehicle was the lead vehicle in the same travel lane, traveling in the same direction, and was traveling slower than this vehicle

**52 (Traveling in Same Direction While Decelerating)** is used when the other vehicle was the lead vehicle in the same travel lane, traveling in the same direction, and was decelerating.

**53 (Traveling in Same Direction with Higher Speed)** is used when the speed of the other vehicle was higher than this vehicle or accelerating. The other vehicle must be overtaking this vehicle.

**54 (Traveling in Opposite Direction)** is used when the other vehicle was in this vehicle's travel lane and traveling head-on in the opposite direction of this vehicle.

**55 (In Crossover)** is used when the other vehicle enters a crossover already occupied by this vehicle. A crossover is defined as a designated opening within a median used primarily for "u-turns".

**56 (Backing)** identifies a situation where the other vehicle was in the process of backing up while in this vehicle's travel lane.

**59 (Unknown Travel Direction of Other Motor Vehicle in Lane)** is used for situations where the other vehicle's activity (while in the same lane as this vehicle) precipitated the precrash event, but the travel direction and/or speed could not be determined.

#### **Other Motor Vehicle Encroaching Into Lane**

These attributes identify situations where the critical factor leading to the collision involved the other vehicle's movement into or across this vehicle's travel lane from another lane, intersection, driveway or ramp.

**60 (From Adjacent Lane (Same Direction) Over Left Lane Line)** is used when the other vehicle was traveling in the same direction as this vehicle and crosses the left lane line with respect to this vehicle's travel lane (i.e., other vehicle crosses its right lane line).

**61 (From Adjacent Lane (Same Direction) Over Right Lane Line)** is used when the other vehicle was traveling in the same direction as this vehicle and crosses the right lane line with respect to this vehicle's travel lane (i.e., other vehicle crosses its left lane line).

**62 (From Opposite Direction Over Left Lane Line)** identifies a situation where the other vehicle crosses the left lane line while traveling in the opposite direction from this vehicle.

**63 (From Opposite Direction Over Right Lane Line)** identifies a situation where the other vehicle crosses the right lane line while traveling in the opposite direction from this vehicle.

**64 (From Parking Lane, Median, Shoulder, Roadside)** is selected when the other vehicle was departing one of these trafficway components and entering the travel lane of this vehicle.

**65 (From Crossing Street, Turning Into Same Direction)** is used when the other vehicle was turning from another roadway onto this vehicle's roadway and attempted to travel in the same direction as this vehicle.

**66 (From Crossing Street, Across Path)** is used when the other vehicle was continuing straight through the intersection and attempted to cross over this vehicle's roadway.

**67 (From Crossing Street, Turning Into Opposite Direction)** is used when the other vehicle was entering an intersection from another roadway and was turning or attempting to turn onto this vehicle's roadway in the opposite travel direction of this vehicle.

**68 (From Crossing Street, Intended Path Not Known)** is used when the other vehicle's entrance into the intersection was the critical factor which led to the collision, however, the other vehicle's travel direction could not be determined.

**70 (From Driveway, Turning Into Same Direction)** is used when the other vehicle was turning from a driveway onto this vehicle's roadway and attempted to travel in the same direction as this vehicle.

**71 (From Driveway, Across Path)** is used when the other vehicle was entering this vehicle's roadway from a driveway and was continuing straight across to another driveway or roadway.

**72 (From Driveway, Turning Into Opposite Direction)** is used when the other vehicle was entering this vehicle's roadway from a driveway and was attempting to turn into the opposite travel direction of this vehicle.

**73 (From Driveway, Intended Path Not Known)** is used to identify driveway-related precrash events where details surrounding the other vehicle's intended path are not known.

**74 (From Entrance to Limited Access Highway)** is used for entrance ramp situations where the other vehicle was attempting to enter (merge) onto the limited access highway that was being traveled by this vehicle.

**78 (Encroachment by Other Vehicle Details Unknown)** is used for situations where the other vehicle initiated the critical precrash event, but circumstances surrounding the other vehicle's encroachment are unknown.

#### **Pedestrian or Pedalcyclist or Other Non-Motorist**

These attributes identify situations where the critical factor leading to the collision for this vehicle involved a pedestrian, pedalcyclist, or other non-motorist. These selections include situations where a vehicle was exiting a driveway. A pedalcyclist is defined as a person riding a pedal powered conveyance (e.g., bicycle, tricycle, etc.). A non-motorist is defined as a

person riding on or in a conveyance which is not motorized or propelled by pedaling (e.g., baby carriage, skate board, roller blades, etc.).

**80 (Pedestrian in Road)** is used when a pedestrian was present (e.g., sitting, standing, walking or running, etc.) in the road.

**81 (Pedestrian Approaching Road)** identifies situations where a pedestrian was within the trafficway and moving toward the road or attempting to enter the road, but was not on the road.

**82 (Pedestrian Unknown Location)** is used when it was determined the presence or action of a pedestrian was the critical factor which lead to this vehicle's collision, but the location or action of the pedestrian was not known.

**83 (Pedalcyclist or Other Non-Motorist in Road, [Specify:J])** is selected when a pedalcyclist or other non-motorist was present in the road (irrespective of relative motion). (See "Note: for attributes with "specify:" designation at the beginning of Remarks section for this element.)

**84 (Pedalcyclist or Other Non-Motorist Approaching Road [Specify:J])** identifies situations where the pedalcyclist or other non-motorist was within the trafficway and moving toward the road or attempting to enter the road, but was not on the road. (See "Note: for attributes with "specify:" designation at the beginning of Remarks section for this element.)

**85 (Pedalcyclist or Other Non-Motorist Unknown Location [Specify:J])** is used when it was determined the presence or action of a pedalcyclist or other non-motorist was the critical factor which led to this vehicle's collision, but the action of the pedalcyclist or other non-motorist was not known. (See "Note: for attributes with "specify:" designation at the beginning of Remarks section for this element.)

### **Object or Animal**

These attributes identify situations where the critical factor leading to the collision for this vehicle involved an object or animal.

**87 (Animal in Road)** is used when an animal was present (i.e., stationary or moving) in the road.

**88 (Animal Approaching Road)** identifies situations where an animal was within the trafficway and moving toward the road or attempting to enter the road, but not on the road.

**89 (Animal - Unknown Location)** is used when it was determined the presence or action of an animal was the critical factor which led to this vehicle's collision, but the action of the animal was not known.

**90 (Object in Road)** is used when an object was present in the road. An object is defined as being either fixed or non-fixed (only non-fixed objects are captured in this attribute).

**91 (Object Approaching Road)** identifies situations where an object was within the trafficway and moving toward the road, but not on the road.

**92 (Object Unknown Location)** is selected when it was determined the presence or movement of an object was the critical factor which led to this vehicle's collision, but details surrounding the location of the object were not known.

Treat trains as "objects not fixed".

For example, a simple single CCE involving a train (car hits train or train hits car in crossing):

- If driver recognized impending danger of approaching train and tried to avoid - 91 (Object approaching road)
- If driver recognized impending danger of train in his path or didn't and hits the train in the crossing – 90 (Object in road)
- If there is doubt/unclear circumstances - 98 (Other Critical Precrash Event [specify:])

#### **Other (Specify:)**

These attributes identify situations where the critical factor leading to the collision for this vehicle was not previously listed.

**98 (Other Critical Precrash Event [Specify:])** is used when a critical factor not previously listed resulted in the collision for this vehicle. Previous impacts in the crash are not considered as "other critical precrash events".

Examples include:

- the critical event developed from this vehicle's departure from a driveway (used for the vehicle that exited the driveway).
- the vehicle had only a non-collision event of fire/explosion, gas inhalation or thrown or falling object **or fell/jumped from vehicle**.
- the vehicle is a driverless motor vehicle in-transport.
- a MVIT that becomes a contact vehicle by being struck by a "load" from another MVIT
- the vehicle was disabled in a previous crash
- an in-transport vehicle strikes or is struck by the door of a parked motor vehicle that is opened into the travel lane or some portion of the equipment of the parked motor vehicle (excluding the primary outline) e.g., extended mirrors used when hauling a camper or trailer. NOTE: This should not be used for loads of vehicles extending into the travel lane e.g., attached trailers or oversized cargo. In these cases the vehicle is in-transport and not parked.
- ***Unintentional Rolling Backward***
- ***Height Clearance***
- ***Mechanical problem with no control loss***
- ***Vehicle stuck or stranded on the track and is struck by a train***

- ***This Vehicle is backing into a driveway/parking stall***

(See “Note: for attributes with “specify:” designation at the beginning of Remarks section for this element.)

#### Unknown:

**99 (Unknown)** is used when the critical precrash event that resulted in the collision is not known.

#### Consistency Checks:

	<b>IF</b>	<b>THEN</b>
(3D00)	CRASH TYPE equals 20-49, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01,	CRITICAL EVENT – PRECRASH (EVENT) should not equal 12-14, 54, 66-68, 71-73 or 80-85.
(3D10)	CRASH TYPE equals 50-67, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01,	CRITICAL EVENT – PRECRASH (EVENT) should not equal 12-14, 51-53, 60, 61, 65, 66, 70, 71, 80-85 or 87-92.
(3D70)	CRITICAL EVENT – PRECRASH (EVENT) equals 01-04,	CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must not equal 00.
(3E00)	CRITICAL EVENT – PRECRASH (EVENT) equals 65-68 or 70-73 for a vehicle involved in the first harmful event,	RELATION TO JUNCTION (b) should not equal 01 or 18.
(42AP)	NUMBER OF MOTOR VEHICLES FORMS SUBMITTED equals 001, and RELATION TO TRAFFICWAY equals 02, 04, 06-08, and ATTEMPTED AVOIDANCE MANEUVER equals 00 or 01,	CRITICAL EVENT – PRECRASH (EVENT) should equal 01-06, 08-14 or 19.
(671F)	the only harmful event in the SEQUENCE OF EVENTS for this vehicle equals 02 or 04,	CRITICAL EVENT – PRECRASH (EVENT) must equal 98.
(AZ2P)	<b>FIRST HARMFUL EVENT does not equal 02-07, 16, 44, 51, 72, and</b> CRITICAL EVENT – PRECRASH (EVENT) equals 14, and ATTEMPTED AVOIDANCE MANEUVER equals 01,	CRASH TYPE must equal 14 <b>for the vehicle involved in the first harmful event.</b>
(AZ5P)	CRITICAL EVENT – PRECRASH (EVENT) equals 70-73 for a vehicle involved in the first harmful event,	RELATION TO JUNCTION (b) should equal 04 or 08.
(AZBP)	any DRIVER MANEUVERED TO AVOID equals 03,	CRITICAL EVENT – PRECRASH (EVENT) should equal 87-89.

	IF	THEN
(AZCP)	any DRIVER MANEUVERED TO AVOID equals 05,	CRITICAL EVENT – PRECRASH (EVENT) should equal 80-85.
(AZEP)	any DRIVER MANEUVERED TO AVOID equals 01,	CRITICAL EVENT – PRECRASH (EVENT) should equal 90-92.
(B13P)	CRASH TYPE equals 20-49, and ATTEMPTED AVOIDANCE MANEUVER equals 00-01,	CRITICAL EVENT-PRECRASH (EVENT) should not equal 12-14, 54, 66-68, 71-73 or 80-85.
(B15P)	CRITICAL EVENT – PRECRASH (EVENT) equals 91, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01, and the vehicle is involved in the first harmful event,	CRASH TYPE should equal 15.
(B16P)	CRITICAL EVENT – PRECRASH (EVENT) equals 90, and ATTEMPTED AVOIDANCE MANEUVER equals 01, and the vehicle is involved in the first harmful event,	CRASH TYPE should equal 12 or 15.
(B17P)	<b>CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 09 for this driver,</b>	<b>CRITICAL EVENT: PRECRASH (EVENT) should not equal 08 for this driver's vehicle.</b>
(BZ10)	CRITICAL EVENT – PRECRASH (EVENT) equals 53,	AREAS OF IMPACT-INITIAL CONTACT POINT should not equal 12 for this vehicle.
(BZ20)	CRITICAL EVENT – PRECRASH (EVENT) equals 51, 52,	AREAS OF IMPACT-INITIAL CONTACT POINT should not equal 06 for this vehicle.
(BZ40)	CRITICAL EVENT - PRECRASH (EVENT) equals 01,	at least one SEQUENCE OF EVENTS must equal 61 for this vehicle.
(BZ50)	CRITICAL EVENT - PRECRASH (EVENT) equals 12, and PRE-IMPACT LOCATION is not equal to 5,	at least one SEQUENCE OF EVENTS must equal 64 for this vehicle.
(BZ60)	CRITICAL EVENT - PRECRASH (EVENT) equals 13, and PRE-IMPACT LOCATION is not equal to 5,	at least one SEQUENCE OF EVENTS must equal 63 for this vehicle.
(BZ70)	CRITICAL EVENT - PRECRASH (EVENT) equals 14,	at least one SEQUENCE OF EVENTS must equal 71 for this vehicle.
(FP7F)	UNIT TYPE equals 1, and CRITICAL EVENT – PRECRASH (EVENT) equals blank, case status is flawed.	
(U682)	<b>UNLIKELY: CRITICAL EVENT: PRECRASH (EVENT) equals 08 for this vehicle and CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) does not equal 01 for this vehicle's driver.</b>	

## Precrash Event Scenarios for Different Rear-End Collision Situations

### Two Vehicle Collisions

			Trail Vehicle	Lead Vehicle
1)	Both vehicles in motion. Leading vehicle, traveling at steady speed, is struck from behind by trailing vehicle.	Pre-Event Movement	Going straight	Going straight
		Critical Precrash (Category)	Other motor vehicle in lane	Other motor vehicle in lane
		Critical Precrash (Event)	Traveling in same direction with lower or steady speed	Traveling in same direction with higher speed
2)	Both vehicles traveling at same speed. Lead vehicle decelerates and trailing vehicle continues at initial speed. Trailing vehicle eventually applies brakes before striking the lead vehicle.	Pre-Event Movement	Going straight	Going straight
		Critical Precrash (Category)	Other motor vehicle in lane	This vehicle traveling
		Critical Precrash (Event)	Traveling in same direction while decelerating	This vehicle decelerating
3)	Both vehicles traveling at same speed. Lead vehicle stops and is immediately struck by trailing vehicle.	Pre-Event Movement	Going straight	Going straight
		Critical Precrash (Category)	Other motor vehicle in lane	Other motor vehicle in lane
		Critical Precrash (Event)	Traveling in same direction while decelerating	Traveling in same direction with higher speed
4)	Lead vehicle is stopped on roadway and is struck by a trailing vehicle.	Pre-Event Movement	Going straight	Stopped in roadway
		Critical Precrash (Category)	Other motor vehicle in lane	Other motor vehicle in lane
		Critical Precrash (Event)	Other vehicle stopped	Traveling in same direction with higher speed
5)	Lead and trailing vehicle stopped on roadway. Lead vehicle backs into trailing vehicle.	Pre-Event Movement	Stopped in roadway	Stopped in roadway
		Critical Precrash (Category)	Other motor vehicle in lane	Other motor vehicle in lane
		Critical Precrash (Event)	Backing	Other vehicle stopped

### Three Vehicle Collisions

			Trail Vehicle	Middle Vehicle	Lead Vehicle
6)	Two vehicles stopped in traffic, struck by decelerating trailing vehicle	Pre-Event Movement	Decelerating	Stopped in traffic	Stopped in traffic
		Critical Precrash (Category)	Other motor vehicle in lane	Other motor vehicle in lane	Other motor vehicle in lane
		Critical Precrash (Event)	Other vehicle stopped	Traveling in same direction while decelerating	Traveling in same direction with higher speed
7)	Lead vehicle stopped in traffic, middle vehicle decelerating, trailing vehicle strikes middle vehicle which strikes lead vehicle.	Pre-Event Movement	Going straight	Decelerating	Stopped in traffic
		Critical Precrash (Category)	Other motor vehicle in lane	Other motor vehicle in lane	Other motor vehicle in lane
		Critical Precrash (Event)	Traveling in same direction while decelerating	Traveling in same direction with higher speed	Traveling in same direction with higher speed

## **ATTEMPTED AVOIDANCE MANEUVER**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.P\_Crash3

**ELEMENT VALUES:**

- 1 No Driver Present / Unknown if Driver Present
- 2 No Avoidance Maneuver
- 3 Braking (No Lockup)
- 4 Braking (Lockup)
- 5 Braking (Lockup Unknown)
- 6 Releasing Brakes
- 7 Steering Left
- 8 Steering Right
- 9 Braking and Steering Left
- 10 Braking and Steering Right
- 11 Accelerating
- 12 Accelerating and Steering Left
- 13 Accelerating and Steering Right
- 98 Other actions (specify:)
- 99 Unknown

**Definition:** This element identifies movements/actions taken by the driver, within a critical crash envelope, in response to a Critical Precrash Event.

**Remarks:**

Attempted avoidance maneuvers are movements/actions taken by the driver, within a critical crash envelope, in response to a Critical Precrash Event. See **Precrash Data Overview** for an expanded discussion on precrash definitions. Attempted avoidance maneuvers occur after the driver has realization of an impending danger. This element assesses what the driver's action(s) was in response to his/her realization.

Most crashes have only one critical crash envelope and thus only one Critical Precrash Event; however, multiple critical crash envelopes with their respective Critical Precrash Events, can exist.

This element may be used independently: (1) of any maneuvers associated with this driver's Crash Type, and (2) this vehicle's first associated crash event.

Select the attribute which best describes the actions taken by the driver in response to the Critical Precrash Event, within the critical crash envelope that occurred just prior to this vehicle's impact. When there was a known action (e.g., braking), but you cannot determine

whether there was more than one action (e.g., braking and steering left), default to the known action (e.g., braking).

### **Witness Statements:**

When coding Attempted Avoidance Maneuver, witness statements, including those from vehicle passengers or pedestrians, may be used to provide information when police sources are unavailable. The officer's assessment on the PAR will take precedent over items reported in a witness statement document in all cases. The officer's assessment includes any statements from a witness included by the officer as part of the PAR narrative. In absence of indication on the PAR, information that is in direct contradiction in two witness statements will not be included.

**1 (No Driver Present/Unknown if Driver Present)** is pre-coded for in-transport motor vehicles when the element Driver Presence is coded as **0 (No Driver Present/Not Applicable)**.

**2 (No Avoidance Maneuver)** is selected whenever the driver did not attempt any evasive (pre-impact) maneuvers, i.e., the case materials indicate that there was no realization of danger or realization without time/ability to react or there is some indication on a field or within the narrative statements (supported by the diagram if present) **that identifies no avoidance maneuver was attempted**. Note: This attribute should not be assessed solely by the diagram.

**3 (Braking [No Lockup])** is selected when there is braking but no indication of lock up. Use this attribute when there are no indications of skid marks.

**4 (Braking [Lockup])** is selected when there is braking and an indication of lock up. Use this attribute when there are indications of skid marks.

**5 (Braking [Lockup Unknown])** is selected when there is braking (i.e. statement in the narrative) however it cannot be determined if lock-up occurred.

**98 (Other Actions, [Specify:])** is used when the Police Accident Report indicates the driver took certain avoidance actions, but none of the specified attributes apply. This value also applies when there are reported movements / actions taken by the driver with no information provided about the driver's specific actions. (e.g., "The driver of Vehicle 2 attempted to avoid the collision, but was unsuccessful").

\*Note: for attributes with a "Specify:" designation, a fill-in text box will open in MDE. This text box should be used to provide additional detail about the attribute selection. **Please include a specific reason for this selection.**

**99 (Unknown)** is used when:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials); or
2. a field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials); or
3. police indicate unknown.

Note: If a state's crash report manual instructs to leave data blocks blank when there is no avoidance maneuver, then a blank in those data blocks are NOT considered **99 (Unknown)**.

### **Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(3BDP)	CRASH TYPE equals 46, 47, and ATTEMPTED AVOIDANCE MANEUVER equals 01 or 99,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 01.
(3BEP)	CRASH TYPE equals 01 or 06, and ATTEMPTED AVOIDANCE MANEUVER equals 01,	PRE-IMPACT STABILITY should not equal 2-5 or 7.
(3C40)	CRASH TYPE equals 46,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 07, 09 or 12.
(3C80)	CRASH TYPE equals 47,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 06, 08 or 11.
(3D00)	CRASH TYPE equals 20-49, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01,	CRITICAL EVENT – PRECRASH (EVENT) should not equal 12-14, 54, 66-68, 71-73 or 80-85.
(3D10)	CRASH TYPE equals 50-67, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01,	CRITICAL EVENT – PRECRASH (EVENT) should not equal 12-14, 51-53, 60, 61, 65, 66, 70, 71, 80-85 or 87-92.
(42AP)	NUMBER OF MOTOR VEHICLES FORMS SUBMITTED equals 001, and RELATION TO TRAFFICWAY equals 02, 04, 06-08, and ATTEMPTED AVOIDANCE MANEUVER equals 00 or 01,	CRITICAL EVENT – PRECRASH (EVENT) should equal 01-06, 08-14 or 19.

	IF	THEN
(AZ2P)	<b>FIRST HARMFUL EVENT does not equal 02-07, 16, 44, 51, 72, and CRITICAL EVENT-PRECRASH (EVENT) equals 14, and ATTEMPTED AVOIDANCE MANEUVER equals 01,</b>	CRASH TYPE must equal 14 <i>for the vehicle involved in the first harmful event.</i>
(AZ30)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,	ATTEMPTED AVOIDANCE MANEUVER must equal 00.
(B10P)	<b>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) does not equal 17, and ATTEMPTED AVOIDANCE MANUEVER equals 01,</b>	DRIVER MANEUVERED TO AVOID should equal 00.
(B13P)	CRASH TYPE equals 20-49, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01,	CRITICAL EVENT-PRECRASH (EVENT) should not equal 12-14, 54, 66-68, 71-73 or 80-85.
(B15P)	CRITICAL EVENT-PRECRASH (EVENT) equals 91, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01 and the vehicle is involved in the first harmful event,	CRASH TYPE should equal 15.
(B16P)	CRITICAL EVENT-PRECRASH (EVENT) equals 90, and ATTEMPTED AVOIDANCE MANEUVER equals 01, and the vehicle is involved in the first harmful event,	CRASH TYPE should equal 12 or 15.
(V533)	CRASH TYPE equals 03, 08, 38, 40, 58 or 60,	ATTEMPTED AVOIDANCE MANEUVER must not equal 00 or 01.
(V535)	ATTEMPTED AVOIDANCE MANEUVER equals 00,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.
(V59Q)	<b>ATTEMPTED AVOIDANCE MANEUVER equals 99,</b>	<b>DRIVER MANEUVERED TO AVOID should equal 00, 98 or 99.</b>
(VH10)	PRE-IMPACT LOCATION equals 0,	ATTEMPTED AVOIDANCE MANEUVER must equal 00.
(VH20)	ATTEMPTED AVOIDANCE MANEUVER equals 00,	PRE-IMPACT LOCATION must equal 0.

## **PRE-IMPACT STABILITY**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.PCrash4

**ELEMENT VALUES:**

- 0 No Driver Present / Unknown if Driver Present
- 1 Tracking
- 2 Skidding Longitudinally Rotation Less Than 30 Degrees
- 3 Skidding Laterally Clockwise Rotation
- 4 Skidding Laterally Counter-Clockwise Rotation
- 5 Skidding Laterally, Rotation Direction Unknown
- 7 Other Vehicle Loss-of-Control (Specify:)
- 9 Precrash Stability Unknown

**Definition:** This element assesses the stability of the vehicle after the critical event, but before the impact.

**Remarks:**

The stability of the vehicle prior to an avoidance action is not considered except in the following situation:

A vehicle that is out of control (e.g., yawing clockwise) prior to an avoidance maneuver is coded as **7 (Other Vehicle Loss-of Control [Specify:])** only if an avoidance action was taken in response to an impending danger.

Thus, this element focuses upon this vehicle's dynamics after the critical event.

**0 (No Driver Present/Unknown if Driver Present)** is pre-coded for in-transport motor vehicles when the element Driver Presence is coded as **0 (No Driver Present/Not Applicable)**.

**1 (Tracking)** is used when there is no brake lockup and the vehicle continued along its intended path without rotation. Stopped, slowing, turning or accelerating to avoid a rear-end collision are examples.

**2 (Skidding Longitudinally Rotation Less Than 30 degrees)** is selected when there is brake lockup or whenever tire marks are apparent without brake lockup (braking or non-braking) and rotation is less than 30 degrees clockwise or counterclockwise. If there is no information to support rotation greater than or equal to 30 degrees, then use this attribute.

**3 (Skidding Laterally Clockwise Rotation)** is selected when the vehicle rotates clockwise, relative to the driver's seating position. The vehicle must rotate 30 degrees or more. This

attribute also applies when the driver attempts a steering input (i.e., steers right), but the vehicle rotates clockwise.

**4 (Skidding Laterally Counter-Clockwise Rotation)** is selected when the vehicle rotates counterclockwise, relative to the driver's seating position. The vehicle must rotate 30 degrees or more. This attribute also applies when the driver attempts a steering input (i.e., swerves left), but the vehicle rotates counter-clockwise.

**5 (Skidding Laterally, Rotation Direction Unknown)** is used when the vehicle rotates 30 degrees or more but it cannot be determined from the case materials whether it was clockwise or counter-clockwise rotation.

**7 (Other Vehicle Loss-of-Control [Specify:J])** is selected when a driver loses control of a vehicle prior to the critical event.

**\*Note:** for attributes with a “Specify:” designation, a fill-in text box will open in MDE. This text box should be used to provide additional detail about the attribute selection.  
*Please include a specific reason for this selection.*

**9 (Precrash Stability Unknown)** is selected when the stability of the vehicle, after the Critical Event, cannot be determined.

#### Consistency Checks:

IF	THEN
(3BEP) CRASH TYPE equals 01 or 06, and ATTEMPTED AVOIDANCE MANEUVER equals 01,	PRE-IMPACT STABILITY should not equal 2-5 or 7.
(3D50) PRE-IMPACT STABILITY equals 1,	CRASH TYPE should not equal 02, 07, 34, 36, 54 or 56.
(AZ50) PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,	PRE-IMPACT STABILITY must equal 0.
(AZ60) PRE-IMPACT STABILITY equals 0,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.
(VB60) PRE-IMPACT STABILITY equals 0,	PRE-IMPACT LOCATION must equal 0.
(VB70) PRE-IMPACT STABILITY is not equal to 0,	PRE-IMPACT LOCATION must not equal 0.
(VBA0) PRE-IMPACT LOCATION equals 1,	PRE-IMPACT STABILITY should equal 1, 2 or 9.

## **PRE-IMPACT LOCATION**

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.PCrash5

**ELEMENT VALUES:**

- 0    No Driver Present / Unknown if Driver Present
- 1    Stayed in Original Travel Lane
- 2    Stayed on Roadway, but Left Original Travel Lane
- 3    Stayed on Roadway, Not Known if Left Original Travel Lane
- 4    Departed Roadway
- 5    Remained off Roadway
- 6    Returned to Roadway
- 7    Entered Roadway
- 9    Unknown

**Definition:** This element assesses the location of the vehicle after the critical event, but before the impact.

**Remarks:**

When determining Pre-impact Location for crashes occurring in intersections, a vehicle's "travel lane" extends through the intersection area even if no lane line markings are present within the intersection. For example, for a vehicle that is turning left, its original travel lane extends through the intersection to lane into which it is turning.

Select the attribute which best describes the location of the vehicle (i.e., perimeter of the vehicle from the case diagram).

**10 (No Driver Present/Unknown if Driver Present)** is used when there is no driver in this vehicle.

**1 (Stayed in Original Travel Lane)** is selected when the vehicle remained within the boundaries of its initial travel lane.

**2 (Stayed on Roadway But Left Original Travel Lane)** is selected when the perimeter of the vehicle departed its initial travel lane; however, the vehicle remained within the boundaries of the roadway (travel lanes).

**3 (Stayed on Roadway, Not Known if Left Original Travel Lane)** is selected when it cannot be ascertained whether the vehicle remained within its initial travel lane. To use this attribute, the vehicle must have remained within the boundaries of the roadway.

**4 (Departed Roadway)** is selected when the vehicle departed the roadway as a result of a precrash motion. The roadway departure must not be related to the post-impact trajectory of a crash within the roadway. Use this attribute for vehicles crossing a median into oncoming traffic.

**5 (Remained off Roadway)** the precrash motion occurred outside the boundaries of the roadway. This includes traveling on the shoulders, within the median, on the roadside, or off the trafficway.

**6 (Returned to Roadway)** is selected when the vehicle was on the roadway, went off the roadway and then returned to the same roadway during precrash motion.

**7 (Entered Roadway)** is selected when the vehicle was not previously on the roadway and then the vehicle enters the roadway during precrash motion.

**9 (Unknown)** the precrash motion of the vehicle cannot be determined.

#### Consistency Checks:

	<b>IF</b>	<b>THEN</b>
(AZ70)	PRE-IMPACT LOCATION equals 0,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00. PRE-IMPACT LOCATION must equal 0.
(AZ80)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,	at least one SEQUENCE OF EVENTS must equal 64 for this vehicle.
(BZ50)	CRITICAL EVENT - PRECRASH (EVENT) equals 12, and PRE-IMPACT LOCATION is not equal to 5,	at least one SEQUENCE OF EVENTS must equal 63 for this vehicle.
(BZ60)	CRITICAL EVENT - PRECRASH (EVENT) equals 13, and PRE-IMPACT LOCATION is not equal to 5,	at least one SEQUENCE OF EVENTS prior to the first harmful event must equal 63.
(BZ90)	CRASH TYPE equals 01-05, and PRE-IMPACT LOCATION is not equal to 5,	at least one SEQUENCE OF EVENTS prior to the first harmful event must equal 64.
(BZ91)	CRASH TYPE equals 06-10, and PRE-IMPACT LOCATION is not equal to 5,	at least one SEQUENCE OF EVENTS prior to the first harmful event must equal 64.
(PC20)	RELATION TO TRAFFICWAY equals 02-08 or 10,	PRE-IMPACT LOCATION of the vehicle(s) involved in the first harmful event should equal 0, 4, 5 or 9. RELATION TO TRAFFICWAY should not equal 01 or 11.
(PC30)	PRE-IMPACT LOCATION for a vehicle involved in the first harmful event equals 4, 5,	

	<b>IF</b>	<b>THEN</b>
(PC40)	PRE-IMPACT LOCATION for a vehicle involved in the first harmful event equals 1-3, 6,	RELATION TO TRAFFICWAY should equal 01 or 11.
(PC50)	PRE-IMPACT LOCATION equals 2,	TOTAL LANES IN ROADWAY should not equal 1.
(VB60)	PRE-IMPACT STABILITY equals 0,	PRE-IMPACT LOCATION must equal 0.
(VB70)	PRE-IMPACT STABILITY is not equal to 0,	PRE-IMPACT LOCATION must not equal 0.
(VBA0)	PRE-IMPACT LOCATION equals 1,	PRE-IMPACT STABILITY should equal 1, 2 or 9.
(VH10)	PRE-IMPACT LOCATION equals 0,	ATTEMPTED AVOIDANCE MANEUVER must equal 00.
(VH20)	ATTEMPTED AVOIDANCE MANEUVER equals 00,	PRE-IMPACT LOCATION must equal 0.

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## **CRASH TYPE**

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.Acc\_Type

**ELEMENT VALUES:**

	As assigned by the selection on the next screens
00	No Impact
	01-93
98	Other Crash Type
99	Unknown

**Definition:** This element describes the type of crash this in-transport vehicle was involved in based on the First Harmful Event and the precrash circumstances.

**Remarks:**

The Crash Type is a numeric value assigned by selecting the **Crash Category** and the **Crash Configuration** on the next screens/pages. The number can be directly entered or edited here, however, the two-step process of selecting the Crash Category And Crash Configuration is preferred to visualize the crash scenario.

The first harmful event may include a collision between a vehicle and some object, accompanied by property damage or human injury. The object may be another vehicle, a person, an animal, a fixed object, the road surface or the ground. If the first collision is a rollover, the impact is with the ground or road surface. The collision may also involve plowing into soft ground, if severe vehicle deceleration results in damage or injury. A road departure without damage or injury is not defined as a harmful event.

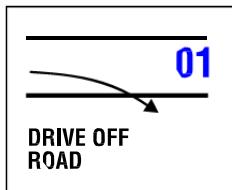
Category	Configuration	CRASH TYPES (includes intent)					
I Single Driver	A Right Roadside Departure				04	05 SPECIFICS UNKNOWN	
	B Left Roadside Departure				09 SPECIFICS UNKNOWN	10 SPECIFICS UNKNOWN	
	C Forward Impact					15 SPECIFICS UNKNOWN	16 SPECIFICS UNKNOWN
II Same Trafficway Same Direction	D Rear End		(EACH - 32) SPECIFICS UNKNOWN	(EACH - 33) SPECIFICS UNKNOWN			
	E Forward Impact					(EACH - 42) SPECIFICS UNKNOWN	(EACH - 43) SPECIFICS UNKNOWN
	F Angle, Sideswipe				(EACH - 48) SPECIFICS OTHER	(EACH - 49) SPECIFICS UNKNOWN	
III Same Trafficway Opposite Direction	G Head-On		(EACH - 52) SPECIFICS OTHER	(EACH - 53) SPECIFICS UNKNOWN			
	H Forward Impact					(EACH - 62) SPECIFICS OTHER	(EACH - 63) SPECIFICS UNKNOWN
	I Angle, Sideswipe		(EACH - 66) SPECIFICS OTHER	(EACH - 67) SPECIFICS UNKNOWN			
IV Change Trafficway Vehicle Turning	J Turn Across Path				(EACH - 74) SPECIFICS OTHER	(EACH - 75) SPECIFICS UNKNOWN	
	K Turn Into Path					(EACH - 84) SPECIFICS OTHER	(EACH - 85) SPECIFICS UNKNOWN
V Intersect Paths	L Straight Paths				(EACH - 90) SPECIFICS OTHER	(EACH - 91) SPECIFICS UNKNOWN	
VI Misc.	M Backing, Etc.				98 OTHER CRASH TYPE 99 UNKNOWN CRASH TYPE 00 NO IMPACT		

## Category I. Single Driver

### Configuration A. Right Roadside Departure

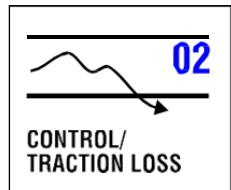
The vehicle departed the right side of the road with the first harmful event occurring off the road.

#### 1 Right Roadside Departure: Drive Off Road



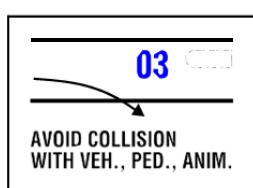
Use **Right Roadside Departure: Drive Off Road** when the vehicle departed the road under a controlled situation (e.g., the driver was distracted, fell asleep, intentionally departed, etc.)

#### 2 Right Roadside Departure: Control/Traction Loss



Use **Right Roadside Departure: Control/Traction Loss** when there is evidence that the vehicle lost traction or "got away" from the driver in some other way (e.g., the vehicle spun off the road as a result of surface conditions, oversteer phenomena or mechanical malfunctions). If doubt exists, use **Right Roadside Departure, Drive Off Road**.

#### 3 Right Roadside Departure: Avoid Collision With Vehicle, Pedestrian, Animal



Use **Right Roadside Departure: Avoid Collision With Vehicle, Pedestrian, Animal** when the vehicle departed the road to avoid something on the road. Phantom vehicle situations, pedestrians, bicyclists, and other cyclists and non-motorists are included here.

#### 4 Right Roadside Departure: Specifics Other



Use **Right Roadside Departure: Specifics Other** if the vehicle departed the road to avoid something on the road other than a vehicle, pedestrian or animal. Also use "Specifics Other" for crashes involving a driverless in-transport vehicle.

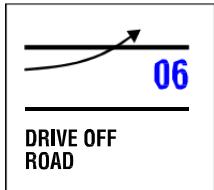
#### 5 Right Roadside Departure: Specifics Unknown



Use **Right Roadside Departure: Specifics Unknown** if the vehicle departed the right side of the road for unknown reasons.

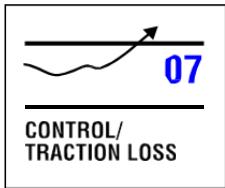
## Configuration B. Left Roadside Departure

### 6 Left Roadside Departure: Drive Off Road



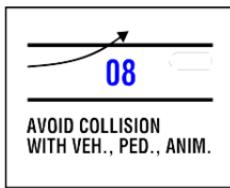
Use **Left Roadside Departure: Drive Off Road** when the vehicle departed the road under a controlled situation (e.g., the driver was distracted, fell asleep, intentionally departed, etc.)

### 7 Left Roadside Departure: Control/Traction Loss



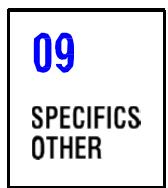
Use **Left Roadside Departure: Control/Traction Loss** if there is evidence that the vehicle lost traction or “got away” from the driver in some other way (e.g., the vehicle spun off the road as a result of surface conditions, oversteer phenomena or mechanical malfunctions.) If doubt exists, use **Left Roadside Departure, Drive Off Road**.

### 8 Left Roadside Departure: Avoid Collision With Vehicle, Pedestrian, Animal



Use **Left Roadside Departure: Avoid Collision With Vehicle, Pedestrian, Animal** when the vehicle departed the road to avoid something on the road. Phantom vehicle situations, pedestrians, bicyclists, and other cyclists and non-motorists are included here.

### 9 Left Roadside Departure: Specifics Other



Use **Left Roadside Departure: Specifics Other** if the vehicle departed the road to avoid something on the road other than a vehicle, pedestrian or animal. Also, use “Specifics Other” for crashes involving a driverless in-transport vehicle.

### 10 Left Roadside Departure: Specifics Unknown



Use **Left Roadside Departure: Specifics Unknown** if the vehicle departed the left side of the road for unknown reasons.

## Configuration C. Forward Impact

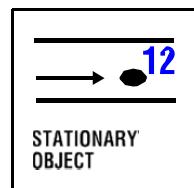
The vehicle struck an object on the road or off the end of a trafficway while moving forward.

### 11Forward Impact: Parked Vehicle



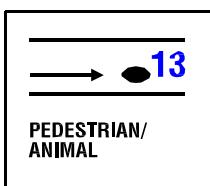
Use **Forward Impact: Parked Vehicle** if the crash involves impact with a parked vehicle on either side of the road. **For cases involving a parked vehicle opening a door into moving traffic or extended mirrors into the travel lane use 15 (Forward Impact: Specifics Other.)**

### 12Forward Impact: Stationary Object



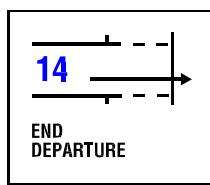
Use **Forward Impact: Stationary Object** if the crash involves impact with a stationary object on either side of the road.

### 13Forward Impact: Pedestrian/Animal



Use **Forward Impact: Pedestrian/Animal** if the first harmful event involves impact with a pedestrian or animal on either side of the road. Pedestrians, bicyclists, and other cyclists and non-motorists are included here. Vehicle plane of contact is NOT a consideration.

### 14Forward Impact: End Departure



Use **Forward Impact: End Departure** when the vehicle ran off the end of the road and crashed into something.

### 15Forward Impact: Specifics Other



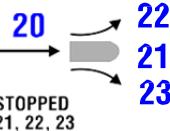
Use **Forward Impact: Specifics Other** for impacted (striking or struck) trains and non-stationary objects on the road. Also use "Specifics Other" for crashes involving a driverless in-transport vehicle. **Use this attribute for cases involving a parked vehicle opening a door into moving traffic or extended mirrors into the travel lane.**

**16 Forward Impact: Specifics Unknown****16**SPECIFICS  
UNKNOWN

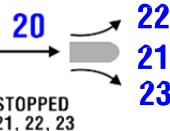
Use **Forward Impact: Specifics Unknown** when the PAR indicates a single driver was involved in a forward impact collision, but no further classification is possible.

**Category II. Same Trafficway, Same Direction****Configuration D. Rear-End**

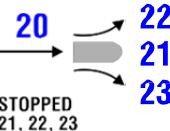
The front of the overtaking vehicle impacted the rear of the other vehicle. Note, even if the rear-impacted vehicle had started to make a turn, code here (not in Category IV - Change in Trafficway, Vehicle Turning).

**20 Rear-End: Stopped**

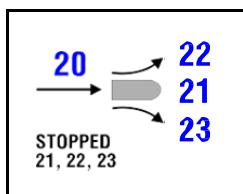
Use **Rear-End: Stopped** for a vehicle that impacts another vehicle from the rear when the impacted vehicle was stopped in the trafficway.

**21 Rear-End: Stopped, Straight**

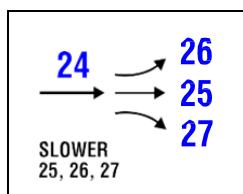
Use **Rear-End: Stopped, Straight** for a rear-impacted vehicle that was stopped in the trafficway, and was intending to proceed straight ahead.

**22 Rear-End: Stopped, Left**

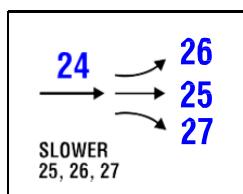
Use **Rear-End: Stopped, Left** for a rear-impacted vehicle that was stopped in the trafficway, intending to make a left turn.

**23Rear-End: Stopped, Right**

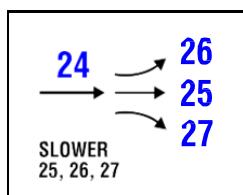
Use **Rear-End: Stopped, Right** for a rear-impacted vehicle that was stopped in the trafficway, intending to make a right turn.

**24Rear-End: Slower**

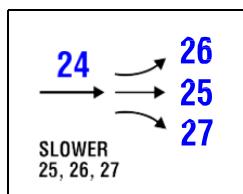
Use **Rear-End: Slower** for a vehicle that impacts another vehicle from the rear when the impacted vehicle was going slower than the striking vehicle.

**25Rear-End: Slower, Going Straight**

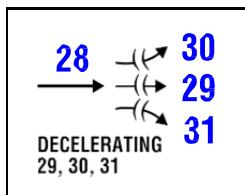
Use **Rear-End: Slower, Going Straight** for a rear-impacted vehicle that was going slower than the other vehicle while proceeding straight ahead.

**26Rear-End: Slower, Going Left**

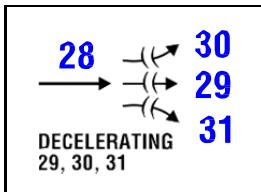
Use **Rear-End: Slower, Going Left** for a rear-impacted vehicle that was going slower than the other vehicle while intending to turn left.

**27Rear-End: Slower, Going Right**

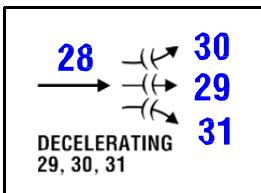
Use **Rear-End: Slower, Going Right** for a rear-impacted vehicle that was going slower than the other vehicle while intending to turn right.

**28Rear-End: Decelerating (Slowing)**

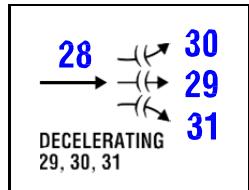
Use **Rear-End: Decelerating (Slowing)** for a vehicle which impacts another vehicle from the rear when the impacted vehicle was slowing down.

**29Rear-End: Decelerating (Slowing), Going Straight**

Use **Rear-End: Decelerating (Slowing), Going Straight** for a rear-impacted vehicle that was slowing down while proceeding straight ahead.

**30Rear-End: Decelerating (Slowing), Going Left**

Use **Rear-End: Decelerating (Slowing), Going Left** for a rear-impacted vehicle that was slowing down while intending to turn left.

**31Rear-End: Decelerating (Slowing), Going Right**

Use **Rear-End: Decelerating (Slowing), Going Right** for a rear-impacted vehicle that was slowing down while intending to turn right.

**32Rear-End: Specifics Other**

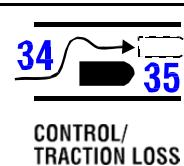
Use **Rear-End: Specifics Other** for rear-end collisions which cannot be described in "20-31." Enter "Specifics Other" for crashes involving a driverless in-transport vehicle.

**33Rear-End: Specifics Unknown****EACH: 33****SPECIFICS  
UNKNOWN**

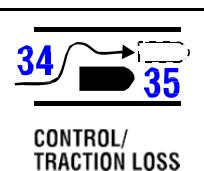
Use **Rear-End: Specifics Unknown** when the PAR indicates a rear-end collision occurred, but no further classification is possible.

**Configuration E. Forward Impact**

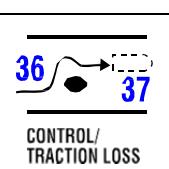
The front of the overtaking vehicle impacted the rear of the other vehicle, following a steering maneuver around a noninvolved vehicle or object.

**34Forward Impact: Control/Traction Loss**

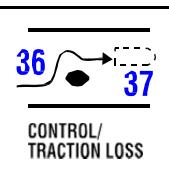
Use **Forward Impact: Control/Traction Loss** for a vehicle that's frontal area impacts another vehicle due to loss of control or traction (during a maneuver to avoid a collision with a non-involved vehicle) while both are traveling on the same trafficway in the same direction.

**35Forward Impact: Control/Traction Loss**

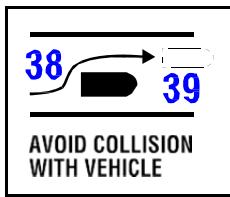
Use **Forward Impact: Control/Traction Loss** for a vehicle that is impacted by the frontal area of another vehicle due to loss of control or traction (during a maneuver to avoid a collision with a non-involved vehicle) while both are traveling on the same trafficway in the same direction.

**36Forward Impact: Control/Traction Loss**

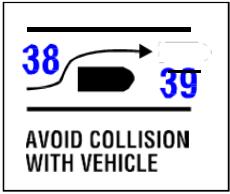
Use **Forward Impact: Control/Traction Loss** for a vehicle that's frontal area impacts another vehicle due to loss of control or traction (during a maneuver to avoid a collision with an object) while both are traveling on the same trafficway in the same direction.

**37Forward Impact: Control/Traction Loss**

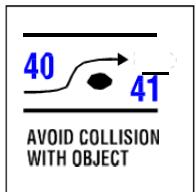
Use **Forward Impact: Control/Traction Loss** for a vehicle that is impacted by the frontal area of another vehicle due to loss of control or traction (during a maneuver to avoid a collision with an object) while both are traveling on the same trafficway in the same direction.

**38Forward Impact: Avoid Collision with Vehicle**

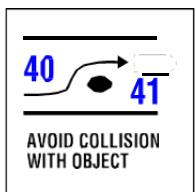
Use **Forward Impact: Avoid Collision with Vehicle** for a vehicle that struck the rear of another vehicle with its front plane while maneuvering to avoid collision with a non-involved vehicle, when loss of control or traction was not a factor, and both were traveling on the same trafficway, in the same direction.

**39Forward Impact: Avoid Collision with Vehicle**

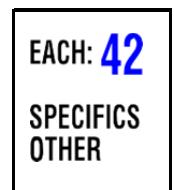
Use **Forward Impact: Avoid Collision with Vehicle** for a vehicle that was impacted by the frontal area of another vehicle which was maneuvering to avoid a collision with a non-involved vehicle, when loss of control or traction was not a factor, and both were traveling on the same trafficway, in the same direction.

**40Forward Impact: Avoid Collision with Object**

Use **Forward Impact: Avoid Collision with Object** for a vehicle that struck the rear of another vehicle with its front plane while maneuvering to avoid collision with an object, when loss of control or traction was not a factor, and both were traveling on the same trafficway, in the same direction.

**41Forward Impact: Avoid Collision with Object**

Use **Forward Impact: Avoid Collision with Object** for a vehicle that was impacted by the frontal area of another vehicle that was maneuvering to avoid a collision with an object, when loss of control or traction was not a factor, and both were traveling on the same trafficway, in the same direction.

**42Forward Impact: Specifics Other**

Use **Forward Impact: Specifics Other** (for both vehicles) for a forward impact collision that occurred while both vehicles were traveling on the same trafficway, in the same direction, and the striking vehicle was attempting to avoid a vehicle or an object that cannot be described by "34 - 40."

Also, use this code for crashes involving a driverless in-transport vehicle that would otherwise qualify for this configuration.

**43Forward Impact: Specifics Unknown****EACH: 43****SPECIFICS  
UNKNOWN**

Use **Forward Impact: Specifics Unknown** when the PAR indicates that a forward impact collision occurred while both vehicles were traveling on the same trafficway and in the same direction, but no further classification was possible.

**Configuration F. Sideswipe/Angle**

The two vehicles are involved in an impact involving the side of one or both vehicles.

The following four attributes, **Sideswipe/Angle, straight ahead on left**, **Sideswipe/Angle, straight ahead on left/right**, **Sideswipe/Angle, changing lanes to the right** and **Sideswipe/Angle, changing lanes to the left** identify relative vehicle positions (left versus right) and lane of travel intentions (straight ahead versus changing lanes). From these four codes, four combinations are permitted. They are:

1. **44 (Sideswipe/Angle, straight ahead on left)** and **45 (Sideswipe/Angle, straight ahead on left/right)**.
2. **46 (Sideswipe/Angle, changing lanes to the right)** and **45 (Sideswipe/Angle, straight ahead on left/right)**.
3. **45 (Sideswipe/Angle, straight ahead on left/right)** and **47 (Sideswipe/Angle, changing lanes to the left)**.
4. **46 (Sideswipe/Angle, changing lanes to the right)** and **47 (Sideswipe/Angle, changing lanes to the left)**.

When used in combination, these codes refer to a sideswipe or angle collision that involved a vehicle to the left of a vehicle to the right where:

1. neither vehicle (**Sideswipe/Angle, straight ahead on left** and **Sideswipe/Angle, straight ahead on left/right**) intended to change its lane;
2. the vehicle on the left (**Sideswipe/Angle, changing lanes to the right**) was changing lanes to the right, and the vehicle on the right (**Sideswipe/Angle, straight ahead on left/right**) was not intending to change its lane;
3. the vehicle on the left (**Sideswipe/Angle, straight ahead on left/right**) was not intending to change its lane, and the vehicle on the right (**Sideswipe/Angle, changing lanes to the left**) was changing lanes to the left, and
4. the vehicle on the left (**Sideswipe/Angle, changing lanes to the right**) was changing lanes to the right, and the vehicle on the right (**Sideswipe/Angle, changing lanes to the left**) was changing lanes to the left.

In addition, when:

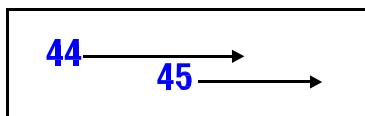
1. the right sides of the two vehicles impact following a 180 degree rotation of the vehicle on the right, or

2. the left sides of the two vehicles impact following a 180 degree rotation of the vehicle on the left.

Select the appropriate combination depending upon:

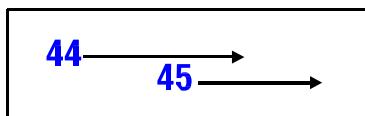
1. their positions (i.e., left versus right) and
2. the intended lane of travel (straight ahead versus changing lanes) of their drivers.

#### 44 Sideswipe/Angle: Straight Ahead on Left



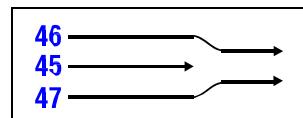
See discussion under Configuration F. Sideswipe/Angle, above for an explanation of when this attribute applies.

#### 45 Sideswipe/Angle: Straight Ahead on Left/Right



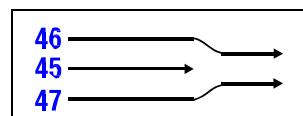
See discussion under Configuration F. Sideswipe/Angle, above for an explanation of when this attribute applies.

#### 46 Sideswipe/Angle: Changing Lanes to the Right



See discussion under Configuration F. Sideswipe/Angle, above for an explanation of when this attribute applies.

#### 47 Sideswipe/Angle: Changing Lanes to the Left



See discussion under Configuration F. Sideswipe/Angle, above for an explanation of when this attribute applies.

#### 48 Sideswipe/Angle: Specifics Other

EACH: **48**  
SPECIFICS  
OTHER

Use **Sideswipe/Angle: Specifics Other** if one vehicle was behind the other prior to a sideswipe/angle collision occurring while both vehicles were traveling on the same trafficway and in the same direction.

For example, use this code when two vehicles are on the same trafficway and going the same direction, and one loses control and is struck in the side by the front of the other vehicle. However, if one vehicle rotates such that the impact is front to front, then use code "98" (Other crash type).

Use **Sideswipe/Angle: Specifics Other** for crashes involving a driverless in-transport vehicle.

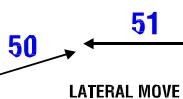
**49 Sideswipe/Angle: Specifics Unknown**

EACH: **49**  
SPECIFICS UNKNOWN

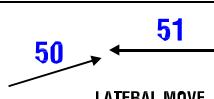
Use **Sideswipe/Angle: Specifics Unknown** for sideswipe/angle collisions that occur while both vehicles are traveling on the same trafficway and in the same direction, when no further classification is possible.

**Category III. Same Trafficway, Opposite Direction****Configuration G. Head-On**

The frontal area of one vehicle impacted the frontal area of another.

**50 Head-On: Lateral Move (Left/Right)**

Use **Head-On: Lateral Move (Left/Right)** for a vehicle that LEAVES ITS LANE [moves laterally (sideways)] immediately before colliding head-on with another vehicle, when the vehicles are traveling on the same trafficway in opposite directions.

**51 Head-On: Lateral Move (Going Straight)**

Use **Head-On: Lateral Move (Going Straight)** for a vehicle that collides head-on with another vehicle which has IMMEDIATELY LEFT ITS LANE (moved laterally), when the vehicles are traveling on the same trafficway in opposite directions.

**52 Head-On: Specifics Other**

EACH: **52**  
SPECIFICS OTHER

Use **Head-On: Specifics Other** for a head-on collision that cannot be described by "50-51", when the vehicles are traveling on the same trafficway in opposite directions. Clarification: Enter "52" for both vehicles involved in a head-on collision when one is traveling the wrong way on a one way roadway.

Enter "Specifics Other" for crashes involving a driverless in-transport vehicle.

**53 Head-On: Specifics Unknown**

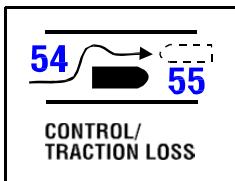
EACH: **53**  
SPECIFICS OTHER

Use **Head-On: Specifics Unknown** when the PAR indicates a head-on collision occurred between two vehicles traveling on the same trafficway in opposite directions, when no further classification is possible.

## Configuration H. Forward Impact

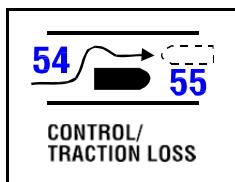
The frontal area of one vehicle impacted the frontal area of another following a steering maneuver around a noninvolved vehicle or an object.

### 54Forward Impact: Control/Traction Loss



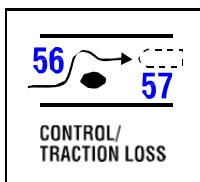
Use **Forward Impact: Control/Traction Loss** for a vehicle whose frontal area impacts another vehicle due to loss of control or traction (during a maneuver to avoid a collision with a third vehicle) while the vehicles are traveling on the same trafficway in opposite directions.

### 55Forward Impact: Control/Traction Loss



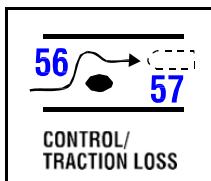
Use **Forward Impact: Control/Traction Loss** for a vehicle that is impacted by the frontal area of another vehicle due to loss of control or traction (during a maneuver to avoid a collision with a third vehicle) while the vehicles are traveling on the same trafficway in opposite directions.

### 56Forward Impact: Control/Traction Loss



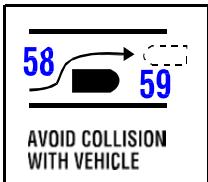
Use **Forward Impact: Control/Traction Loss** for a vehicle whose frontal area impacts another vehicle due to loss of control or traction (during a maneuver to avoid a collision with an object) while the vehicles are traveling on the same trafficway in opposite directions.

### 57Forward Impact: Control/Traction Loss

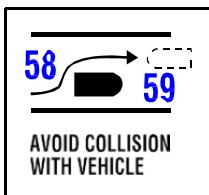


Use **Forward Impact: Control/Traction Loss** for a vehicle that is impacted by the frontal area of another vehicle due to loss of control or traction (during a maneuver to avoid a collision with an object) while the vehicles are traveling on the same trafficway in opposite directions.

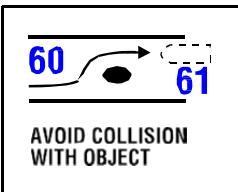
### 58Forward Impact: Avoid Collision with Vehicle



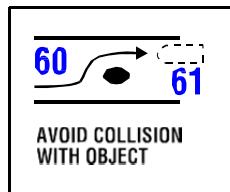
Use **Forward Impact: Avoid Collision with Vehicle** for a vehicle whose frontal area impacts another vehicle while maneuvering to avoid a collision with a non-involved vehicle, when loss of control or traction was not a factor, and the vehicles were traveling on the same trafficway, in opposite directions.

**59 Forward Impact: Avoid Collision with Vehicle**

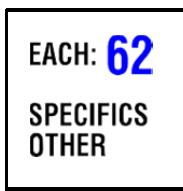
Use **Forward Impact: Avoid Collision with Vehicle** for a vehicle that was impacted by the frontal area of another vehicle which was maneuvering to avoid collision with a non-involved vehicle, when loss of control or traction was not a factor, and the vehicles were traveling on the same trafficway, in opposite directions.

**60 Forward Impact: Avoid Collision with Object**

Use **Forward Impact: Avoid Collision with Object** for a vehicle that struck the front of another vehicle with the frontal plane while maneuvering to avoid collision with an object, when loss of control or traction was not a factor, and the vehicles were traveling on the same trafficway, in opposite directions.

**61 Forward Impact: Avoid Collision with Object**

Use **Forward Impact: Avoid Collision with Object** for a vehicle that was impacted by the frontal area of another vehicle that was maneuvering to avoid collision with an object, when loss of control or traction was not a factor, and the vehicles were traveling on the same trafficway, in opposite directions.

**62 Forward Impact: Specifics Other**

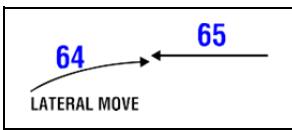
Use **Forward Impact: Specifics Other** for forward impact collisions occurring while the vehicles were traveling on the same trafficway in opposite directions that cannot be described by "54-61". Enter "Specifics Other" for crashes involving a "driverless in-transport vehicle."

**63 Forward Impact: Specifics Unknown**

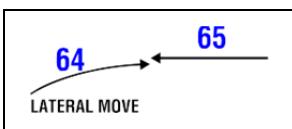
Use **Forward Impact: Specifics Unknown** when the PAR indicates a forward impact collision occurred while the vehicles were traveling on the same trafficway in opposite directions, but no further classification is possible.

**Configuration I. Sideswipe/Angle**

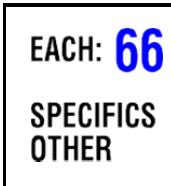
The two vehicles are involved in an impact involving the side of one or both vehicles.

**64 Sideswipe/Angle: Lateral Move (Left/Right)**

Use **Sideswipe/Angle: Lateral Move (Left/Right)** identifies the vehicle which infringed upon the other vehicle (code "65") in a Category III, Configuration I collision; i.e., enter "64" for the vehicle which left its lane (moved laterally) leading to the collision.

**65 Sideswipe/Angle: Lateral Move (Going Straight)**

Use **Sideswipe/Angle: Lateral Move (Going Straight)** for the vehicle that was infringed upon by the other vehicle (code "64") in a Category III, Configuration I collision.

**66 Sideswipe/Angle: Specifics Other**

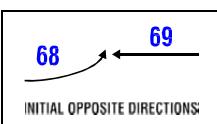
Use **Sideswipe/Angle: Specifics Other** for sideswipe/angle collisions occurring while both vehicles were traveling on the same trafficway in opposite directions that cannot be described by "64-65". Enter "Specifics Other" for crashes involving a "driverless in-transport vehicle." However, if one vehicle rotates such that the impact is front to front or front to rear, and did not result from a steering maneuver around a noninvolved vehicle or an object (category H) then use code **98 (Other Crash Type)**.

**67 Sideswipe/Angle: Specifics Unknown**

Use **Sideswipe/Angle: Specifics Unknown** when the PAR indicates a sideswipe/angle collision occurred while both vehicles were traveling on the same trafficway in opposite directions, but no further classification is possible.

**Category IV. Changing Trafficway, Vehicle Turning****Configuration J. Turn Across Path**

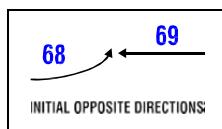
The two vehicles were initially on the same trafficway when one vehicle tried to turn onto another trafficway, a driveway or parking lot and pulled in front of the other vehicle. Vehicles making a "U" turn are identified in Category VI. Miscellaneous.

**68 Turn Across Path: Initial Opposite Directions (Left/Right)**

Use **Turn Across Path: Initial Opposite Directions (Left/Right)** identifies the vehicle which turned across the path of another vehicle (**Turn Across Path: Initial Opposite Directions [Going Straight]**) in a Category IV,

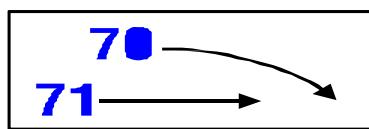
Configuration J collision, in which the vehicles were initially traveling in opposite directions.

#### 69 Turn Across Path: Initial Opposite Directions (Going Straight)



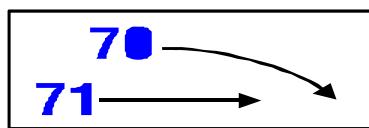
Use **Turn Across Path: Initial Opposite Directions (Going Straight)** for a vehicle involved in a collision in which another vehicle (**Turn Across Path: Initial Opposite Directions [Left/Right]**) across its Path, and in which the vehicles were initially traveling in opposite directions.

#### 70 Turn Across Path: Initial Same Directions (Turning Right)



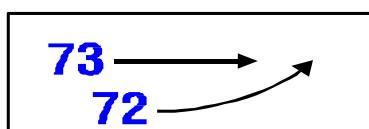
Use **Turn Across Path: Initial Same Directions (Turning Right)** for a vehicle that turned right, across the path of another vehicle (**Turn Across Path: Initial Same Directions [Going Straight]**), when both vehicles were initially traveling in the same direction.

#### 71 Turn Across Path: Initial Same Directions (Going Straight)



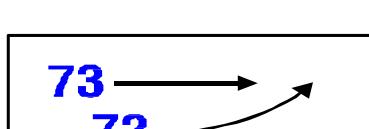
**Turn Across Path: Initial Same Directions (Going Straight)** for a vehicle whose path was crossed by a vehicle turning right (**Turn Across Path: Initial Same Directions (Turning Right)**), when both vehicles were initially traveling in the same direction.

#### 72 Turn Across Path: Initial Same Directions (Turning Left)



Use **Turn Across Path: Initial Same Directions (Turning Left)** for a vehicle that turned left, across the path of another vehicle (**Turn Across Path: Initial Same Directions [Going Straight]**), when both vehicles were initially traveling in the same direction.

#### 73 Turn Across Path: Initial Same Directions (Going Straight)



Use **Turn Across Path: Initial Same Directions (Going Straight)** for a vehicle whose path was crossed by a vehicle turning left (**Turn Across Path: Initial Same Directions [Turning Left]**), when both vehicles were initially traveling in the same direction.

#### 74 Turn Across Path: Specifics Other



Use **Turn Across Path: Specifics Other** for collisions in which one vehicle turned across another's path, which cannot be described by "68-72". Enter "Specifics Other" for crashes involving a driverless in-transport vehicle.

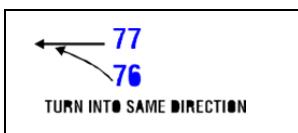
75 Turn Across Path: Specifics Unknown

Use **Turn Across Path: Specifics Unknown** when the PAR indicates one vehicle turned across another's path, causing a collision, but no further classification is possible.

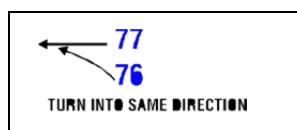
Configuration K. Turn Into Path

The two vehicles were initially on different trafficways when one attempted to turn into the same trafficway as the other vehicle. For the purposes of Crash Typing, "trafficway" as used here includes a driveway or parking lot.

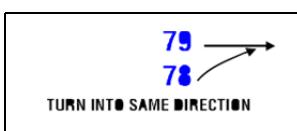
Note: the focus of this configuration is on the turning maneuver from one trafficway to another and not on the vehicles' plane of contact.

76 Turn Into Same Direction (Turning Left)

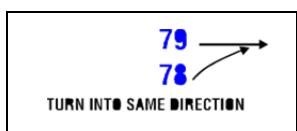
Use **Turn Into Same Direction (Turning Left)** for a vehicle that turned left, into the path of another vehicle (**Turn Into Same Direction [Going Straight]**), so that both vehicles were traveling in the same direction at the time of the collision.

77 Turn Into Same Direction (Going Straight)

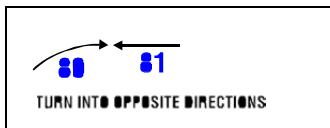
Use **Turn Into Same Direction (Going Straight)** for a vehicle involved in a collision in which another vehicle (**Turn Into Same Direction [Turning Left]**) turned left, into its path, so that both vehicles were traveling in the same direction at the time of the collision.

78 Turn Into Same Direction (Turning Right)

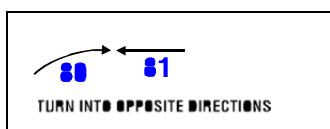
Use **Turn Into Same Direction (Turning Right)** for a vehicle that turned right, into the path of another vehicle (**Turn Into Same Direction [Going Straight]**), so that both vehicles were traveling in the same direction at the time of the collision.

79 Turn Into Same Direction (Going Straight)

Use **Turn Into Same Direction (Going Straight)** for a vehicle involved in a collision in which another vehicle (**Turn Into Same Direction [Turning Right]**) turned right, into its path, so that both vehicles were traveling in the same direction at the time of the collision.

**80 Turn Into Opposite Directions (Turning Right)**

Use **Turn Into Opposite Directions (Turning Right)** for a vehicle that turned right, into the path of another vehicle (**Turn Into Opposite Directions [Going Straight]**), so that the vehicles were traveling in opposite directions at the time of the collision.

**81 Turn Into Opposite Directions (Going Straight)**

Use **Turn Into Opposite Directions (Going Straight)** for a vehicle involved in a collision in which another vehicle (**Turn Into Opposite Directions [Turning Right]**) turned right, into its path, so that the vehicles were traveling in opposite directions at the time of the collision.

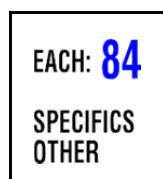
**82 Turn Into Opposite Directions (Turning Left)**

Use **Turn Into Opposite Directions (Turning Left)** for a vehicle that left, into the path of another vehicle (**Turn Into Opposite Directions [Going Straight]**), so that the vehicles were traveling in opposite directions at the time of the collision.

**Turn Into Opposite Directions (Turning Left)** is used when the driver's vehicle was in the act of making a left turn (e.g., from a driveway, parking lot or intersection). Do not confuse this situation with "Configuration L - Straight Paths." The driver's intended path is the prime concern.

**83 Turn Into Opposite Directions (Going Straight)**

Use **Turn Into Opposite Directions (Going Straight)** for a vehicle involved in a collision in which another vehicle (**Turn Into Opposite Directions [Turning Left]**) turned left, into its path, so that the vehicles were traveling in opposite directions at the time of the collision.

**84 Turn Into Path: Specifics Other**

Use **Turn Into Path: Specifics Other** for collisions in which one vehicle turned across another's path, which cannot be described by "76-83". Enter "Specifics Other" for crashes involving a driverless in-transport vehicle.

**85 Turn Into Path: Specifics Unknown**

EACH: **85**  
SPECIFICS UNKNOWN

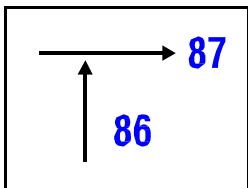
Use **Turn Into Path: Specifics Unknown** when the PAR indicates one vehicle turned into another's path, causing a collision, but no further classification is possible.

## Category V. Intersecting Paths (Vehicle Damage)

### Configuration L. Straight Paths

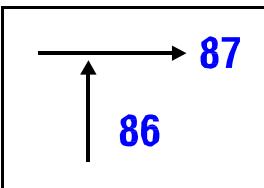
The two vehicles were proceeding (or attempting to proceed) straight ahead.

#### 86 Straight Paths: Striking from the Right



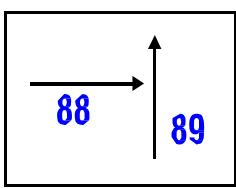
Use **Straight Paths: Striking from the Right** for a vehicle that strikes the right side of another vehicle (code "87") from the right when both vehicles were going straight at the time of the collision, i.e., right side damage to 87, front damage to 86.

#### 87 Straight Paths: Struck on the Right



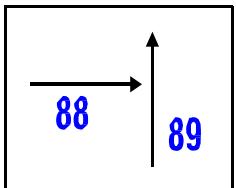
Use **Straight Paths: Struck on the Right** for a vehicle that is struck on the right side by another vehicle (**Straight Paths: Striking from the Right**) from the right when both vehicles were going straight at the time of the collision, i.e., right side damage to 87, front damage to 86.

#### 88 Straight Paths: Striking from the Left



Use **Straight Paths: Striking from the Left** for a vehicle that strikes another vehicle (**Straight Paths: Struck on the Left**) from the left when both vehicles were going straight at the time of the collision, i.e., left side damage to 89, front damage to 88.

#### 89 Straight Paths: Struck on the Left



Use **Straight Paths: Struck on the Left** for a vehicle that is struck on the left side by another vehicle (**Straight Paths: Striking from the Left**) from the left when both vehicles were going straight at the time of the collision, i.e., left side damage to 89, front damage to 88.

**90 Straight Paths: Specifics Other**

EACH: **90**  
SPECIFICS  
OTHER

Use **Straight Paths: Specifics Other** for collisions in which two vehicles, both going straight, collide when their paths intersect, which cannot be described by "86-89". Enter "Specifics Other" for crashes involving a driverless in-transport vehicle.

**91 Straight Paths: Specifics Unknown**

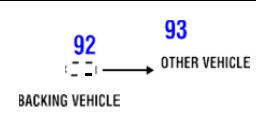
EACH: **91**  
SPECIFICS  
UNKNOWN

Use **Straight Paths: Specifics Unknown** when the PAR indicates two vehicles, both going straight, collided when their paths intersected, but no further classification is possible.

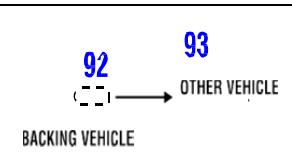
**Category VI. Miscellaneous****Configuration M. Backing, Etc.**

One of the two vehicles involved was a backing vehicle, regardless of its location on the trafficway or the damage location on the vehicles.

Any crash configuration that cannot be described in Category I. through V. is included here.

**92 Backing, Etc.: Backing Vehicle**

Use **Backing, Etc.: Backing Vehicle** for a backing vehicle which was involved with another vehicle object or non-motorist. If both vehicles were backing then code 92 for both vehicles. If the vehicle was driverless and rolling backwards use **98 (Other Crash Type)**.

**93 Backing, Etc.: Other Vehicle**

Use **Backing, Etc.: Other Vehicle** for the in-transport vehicle that was involved with the backing vehicle (code 92). Attribute 93 can only apply when there are two motor vehicles in-transport.

**98 Other Crash Type****98 OTHER CRASH TYPE****99 UNKNOWN CRASH TYPE****00 NO IMPACT**

**Other Crash Type** is used for those events and collisions that do not reasonably fit any of the specified types. This code includes (but is not limited to): rollovers on the road; U-turns; crashes initiated by objects set in motion by an in-transport motor vehicle; third or subsequent vehicles involved in a crash; or the second involved vehicle, when the first harmful event involves a vehicle-to-object collision or a non-collision.

**99 Unknown Crash Type****98 OTHER CRASH TYPE****99 UNKNOWN CRASH TYPE****00 NO IMPACT**

Use **Unknown Crash Type** when the crash category or configuration is unknown.

**00 No Impact****98 OTHER CRASH TYPE****99 UNKNOWN CRASH TYPE****00 NO IMPACT**

**No Impact** identifies the non-collision events fire, immersion, gas inhalation, jackknife, injured in vehicle, pavement surface irregularity, other non-collision, thrown or falling object, cargo equipment loss or shift, or fell/jumped from vehicle. Rollovers on the road should be coded **Other Crash Type**.

The following crash types require clarification:

**No impact** identifies non-collision events (i.e., fire, immersion, gas inhalation, jackknife, non-collision injury, other non-collision or non-collision - no details). Rollovers on the road should be coded as **Other Crash Type**.

**Right roadside departure, drive off road** and **Left roadside departure, drive off road** are used when the vehicle departed the road under a controlled situation (e.g., the driver was distracted, fell asleep, intentionally departed, etc.).

**Right roadside departure, control/traction loss** and **Left roadside departure, control/traction loss** are used if there is some evidence that the vehicle lost traction or in some other manner “got away” from the driver (i.e., the vehicle spun off the road as a result of surface conditions, oversteer phenomena or mechanical malfunctions). If doubt exists, use **Right roadside departure, drive off road** or **Left roadside departure, drive off road** respectively.

**Right roadside departure; avoid collision with vehicle, pedestrian, animal** and **Left roadside departure; avoid collision with vehicle, pedestrian, animal** are used when the

vehicle departed the road as a result of avoiding something in the road. "Phantom" situations are included here.

**Right roadside departure, specifics other** and **Left roadside departure, specifics other** are used for any other stationary or nonstationary objects if the avoidance characteristics of codes "03" or "08" are present.

**Forward impact, parked vehicle**, **Forward impact, stationary object**, and **Forward impact, pedestrian/animal** involves an impact with an object that can be located on either side of the road.

**Forward impact, stationary object** includes a hole in the road, an overhead object (e.g., overpass) or an object projecting over the road edge (e.g., support column of elevated railway).

**Forward impact, pedestrian/animal** is used when a pedestrian, non-motorist or animal is involved with the first harmful event. Vehicle plane of contact is not a consideration.

**Forward impact, specifics other** is used for impacted (striking or struck) trains and nonstationary objects on the road.

**Sideswipe/Angle, straight ahead on left**, **Sideswipe/Angle, straight ahead on left/right**, **Sideswipe/Angle, changing lanes to the right**, and **Sideswipe/Angle, changing lanes to the left** identify relative vehicle positions (left versus right) and lane of travel intentions (straight ahead versus changing lanes).

From these four codes, four combinations are permitted. They are:

1. "44" and "45",
2. "46" and "45",
3. "45" and "47", and
4. "46" and "47".

When used as a combination these codes refer to a sideswipe or angle collision which involved a vehicle to the left of a vehicle to the right where:

1. neither vehicle (codes "44" and "45") intended to change its lane;
2. the vehicle on the left (code "46") was changing lanes to the right, and the vehicle on the right (code "45") was not intending to change its lane;
3. the vehicle on the left (code "45" ) was not intending to change its lane, and the vehicle on the right (code "47") was changing lanes to the left; and
4. the vehicle on the left (code "46") was changing lanes to the right, and the vehicle on the right (code "47") was changing lanes to the left.

In addition, when:

1. the right sides of the two vehicles impact following a 180 degree rotation of the vehicle on the right, or
2. the left sides of the two vehicles impact following a 180 degree rotation of the vehicle on the left; select the appropriate combination ("44-45", "46-45", "45-47" or "46-47") depending upon:
3. their positions (i.e., left versus right), and
4. the intended lane of travel (straight ahead versus changing lanes) of their drivers.

**Sideswipe/Angle, specifics other** is used if one vehicle was behind the other prior to their Category II, Configuration F collision. For example, use this code when two vehicles are on the same trafficway and going the same direction, and one loses control and is struck in the side by the front of the other vehicle. However, if one vehicle rotates such that the impact is front to front, then use code "98" (Other crash type).

**Sideswipe/Angle, lateral move-infringing vehicle** identifies the vehicle that infringed upon the other (code 65) in a Category III, Configuration I collision.

Codes 68 through 85 (**Turn Across Path and Turn Into Path**) are used in Configurations J and K where the vehicle's action is the controlling factor, and the plane of contact is irrelevant.

**Left Turn Into Opposite Direction** is used when the driver's vehicle was in the act of making a left turn (e.g., from a driveway, parking lot or intersection). Do not confuse this situation with Configuration L. Straight Paths. The driver's intended path is the prime concern.

Codes 86 through 89 (**Straight Paths**) must not be confused with crash types in Configuration K. Turn Into Path. For these codes the vehicles are proceeding (or attempting to proceed) straight ahead, usually at a junction.

**Other Crash Type** is used for those events and collisions that do not reasonably fit any of the specified types. This code includes (but is not limited to): rollovers on the road; U-turns; crashes initiated by objects set in motion by an in-transport motor vehicle; third or subsequent vehicles involved in a crash; or the second involved vehicle when the first harmful event involved a vehicle-to-object collision.

**Consistency Checks:**

IF	THEN
(253P) RELATION TO TRAFFICWAY equals 03,	CRASH TYPE should equal 06-10, 98 or 99 for the in-transport vehicles involved in the first harmful event.
(3B1P) CRASH TYPE equals 21-23,	TRAVEL SPEED must equal 000 for this vehicle.
(3B2P) CRASH TYPE equals 20, 24, 28, 34, 36, 38, 40, 50-54, 56, 58 or 60,	AREA OF IMPACT-INITIAL CONTACT POINT must equal 12 for this vehicle.
(3B3P) CRASH TYPE equals 21-23, 25-27, 29-31, 35, 37, 39 or 41,	AREAS OF IMPACT-INITIAL CONTACT POINT must equal 6 for this vehicle.
(3B4P) PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10,	CRASH TYPE must not equal 44-69, 71-73, 76, 77, 79, 81-83, 86-92.
(3B5P) PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 11,	CRASH TYPE must not equal 44-67, 69-71, 73, 77-81, 83, 86-92.
(3B6P) CRASH TYPE equals 87,	AREAS OF IMPACT-INITIAL CONTACT POINT must equal 01-05, 81-83 for this vehicle.
(3B7P) CRASH TYPE equals 89,	AREAS OF IMPACT-INTIAL CONTACT POINT must equal 07-11, 61-63 for this vehicle.
(3BAP) UNIT TYPE equals 1, and DRIVER PRESENCE equals 0,	CRASH TYPE must equal 00, 04, 09, 15, 32, 42, 48, 52, 62, 66, 74, 84, 90, 93 or 98.
(3BCP) CRASH TYPE equals 34, 36, 38, 40, 54, 56, 58 or 60,	DRIVER MANEUVERED TO AVOID must not equal 00.
(3BDP) CRASH TYPE equals 46, 47, and ATTEMPTED AVOIDANCE MANEUVER equals 01 or 99,	PRE-EVENT MOVEMENT (PRIOR TO RECONITION OF CRITICAL EVENT) must not equal 01.
(3BEP) CRASH TYPE equals 01 or 06, and ATTEMPTED AVOIDANCE MANEUVER equals 01,	PRE-IMPACT STABILITY should not equal 2-5 or 7.
(3BFp) PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 08 or 09,	CRASH TYPE must not equal 46 or 47.
(3C00) CRASH TYPE equals 68, 72, 76 or 82,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11 or 98.
(3C10) CRASH TYPE equals 70, 78 or 80,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10 or 98.

	IF	THEN
(3C20)	this vehicle is involved in the First Harmful Event and its CRASH TYPE equals 29-31,	this vehicle's PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 02.
(3C30)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 12,	CRASH TYPE should equal 98.
(3C40)	CRASH TYPE equals 46,	
(3C50)	CRASH TYPE equals 92,	
(3C60)	CRASH TYPE equals 25-27, 29-31,	
(3C70)	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 07, 09 or 12.
(3C80)	CRASH TYPE equals 47,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should not equal 05 or 07. CRASH TYPE should equal 92 or 98.
(3D00)	CRASH TYPE equals 20-49, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 06, 08 or 11.
(3D10)	CRASH TYPE equals 50-67, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01,	CRITICAL EVENT – PRECRASH (EVENT) should not equal 12-14, 54, 66-68, 71-73 or 80-85.
(3D50)	PRE-IMPACT STABILITY equals 1,	CRITICAL EVENT – PRECRASH (EVENT) should not equal 12-14, 51-53, 60, 61, 65, 66, 70, 71, 80-85 or 87-92.
(3D60)	CRASH TYPE equals 46 or 47,	CRASH TYPE should not equal 02, 07, 34, 36, 54 or 56.
(426P)	MANNER OF COLLISION equals 02,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should not equal 01.
(427P)	MANNER OF COLLISION equals 06,	CRASH TYPE must not equal 64-67 for the vehicles involved in the first harmful event.
(428P)	CRASH TYPE equals 20-91,	CRASH TYPE must not equal 20-43 or 50-53 for the vehicles involved in the first harmful event.
		NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.

	IF	THEN
(429P)	NUMBER OF VEHICLE FORMS SUBMITTED equals 001,	CRASH TYPE must equal 00, 01-16, 92, 98, 99.
(42BP)	<b><i>there is only one vehicle involved in the First Harmful Event where UNIT TYPE equals 1,</i></b>	<b><i>the number of vehicles where CRASH TYPE is coded 00, 1-16, 92, 93 or 99 (excluding from the vehicles being counted, those where CRASH TYPE equals 98) must not equal 0 or be greater than 1.</i></b>
(77AP)	CRASH TYPE equals 14,	RELATION TO JUNCTION (b) must not equal 02.
(77BP)	CRASH TYPE equals 68-91,	RELATION TO JUNCTION (b) should not equal 01.
(77CP)	CRASH TYPE equals 14,	RELATION TO JUNCTION (b) should equal 01, 03, 19.
(9BAP)	MANNER OF COLLISION equals 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the first harmful event,	CRASH TYPE should equal 44-49, 98, 99 for the vehicles involved in the first harmful event.
(9BCP)	MANNER OF COLLISION equals 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the first harmful event,	CRASH TYPE should equal 64-67, 98, 99 for the vehicles involved in the first harmful event.
(9BDP)	MANNER OF COLLISION equals 01,	CRASH TYPE should not equal 44-49 for the vehicles involved in the first harmful event.
(A3C0)	FIRST HARMFUL EVENT equals 02-07, 16, 44, 51, 72,	CRASH TYPE must equal 00 for the vehicle involved in the first harmful event.
(A3D0)	FIRST HARMFUL EVENT equals 01-07, 16, 44, 51, 72,	CRASH TYPE must not equal 20-91.
(A3E0)	CRASH TYPE equals 13,	FIRST HARMFUL EVENT must equal 08, 09, 11, 15 or 49.
(A480)	CRASH TYPE equals 00,	FIRST HARMFUL EVENT must equal 02-07, 16, 44, 51, 72.
(A4A0)	CRASH TYPE equals 01-16,	FIRST HARMFUL EVENT must not equal 12.

IF	THEN
(A4B0) <b>CRASH TYPE equals 01-10 or 14,</b>	<b><i>RELATION TO TRAFFICWAY must not equal 01, 02, 07 or 11. If the First Harmful Event occurs on a different road, than the road it departed, see 98 (Other Crash Type).</i></b>
(A4B2) <b>CRASH TYPE equals 11,</b>	<b><i>RELATION TO TRAFFICWAY must not equal 01, 03, 04, 05, 08, 10 or 11.</i></b>
(A4B3) <b>CRASH TYPE equals 12 or 13,</b>	<b><i>RELATION TO TRAFFICWAY must not equal 03, 05, 08 or 10.</i></b>
(A4B4) <b>CRASH TYPE equals 12 or 13,</b>	<b><i>RELATION TO TRAFFICWAY should not equal 04 unless the First Harmful Event occurs in a Bicycle Lane.</i></b>
(A4BP) FIRST HARMFUL EVENT equals 54 or <b>55</b> ,	CRASH TYPE must equal 98 for the vehicles involved in the first harmful event.
(A4DP) CRASH TYPE equals 20-91,	FIRST HARMFUL EVENT must equal 12.
(A4EP) <b>CRASH TYPE equals 11,</b>	<b><i>FIRST HARMFUL EVENT must equal 14.</i></b>
(A60F) FIRST HARMFUL EVENT equals 14,	CRASH TYPE <b>must</b> equal 01-11, <b>14, 15</b> , 92, 98, 99 for the in-transport vehicle involved in the first harmful event.
(A61F) FIRST HARMFUL EVENT equals 08, 09, 11, 15, 49, and RELATION TO TRAFFICWAY equals 01, 02, 07, 11, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) is not equal to 00, 13 for the vehicle involved in the first harmful event,	CRASH TYPE should equal 13 for the vehicle involved in the first harmful event.
(A61G) the FIRST HARMFUL EVENT equals 08, and PERSON TYPE equals 05, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.

IF	THEN
(A61H) the FIRST HARMFUL EVENT equals 09, and PERSON TYPE equals 06, 07, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.
(A61J) the FIRST HARMFUL EVENT equals 15, and PERSON TYPE equals 08, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.
(A61K) the FIRST HARMFUL EVENT equals 49, and PERSON TYPE equals 04, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.
(A620) CRASH TYPE equals 06-10, and TRAFFICWAY DESCRIPTION equals 3,	RELATION TO TRAFFICWAY should equal 03.
(A62F) FIRST HARMFUL EVENT equals 18, 43 or <b>73</b> , and RELATION TO TRAFFICWAY equals 01 or 11,	CRASH TYPE should equal 12 or 15 for the vehicle involved in the first harmful event.
(A63F) FIRST HARMFUL EVENT equals 01,	CRASH TYPE should equal 01-10, 98, 99 for the vehicle involved in the first harmful event.
<b>(A65F) FIRST HARMFUL EVENT equals 14, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL equals 32 or 89 for an occupant of the parked vehicle involved in the first harmful event,</b>	<b>CRASH TYPE should equal 15, 92 or 98 for the in-transport vehicle involved in the first harmful event.</b>
<b>(A66F) FIRST HARMFUL EVENT equals 14, and CRASH TYPE 01-10 or 14,</b>	<b>RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL must not equal 32 or 89 for any occupant of the parked vehicle involved in the first harmful event.</b>

	IF	THEN
(A67F)	<b>FIRST HARMFUL EVENT equals 14, and CRASH TYPE equals 15,</b>	<b>RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL should equals 32 or 89 for an occupant of the parked vehicle.</b>
(AZ2P)	<b>FIRST HARMFUL EVENT does not equal 02-07, 16, 44, 51, 72, and CRITICAL EVENT-PRECRASH (EVENT) equals 14, and ATTEMPTED AVOIDANCE MANEUVER equals 01,</b>	CRASH TYPE must equal 14 <b>for the vehicle involved in the first harmful event.</b>
(B13P)	CRASH TYPE equals 20-49, and ATTEMPTED AVOIDANCE MANEUVER equals 00-01,	CRITICAL EVENT-PRECRASH (EVENT) should not equal 12-14, 54, 66-68, 71-73 or 80-85.
(B15P)	CRITICAL EVENT-PRECRASH (EVENT) equals 91, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01,	CRASH TYPE should equal 15.
(B16P)	CRITICAL EVENT-PRECRASH (EVENT) equals 90, and ATTEMPTED AVOIDANCE MANEUVER equals 01, and the vehicle is involved in the first harmful event,	CRASH TYPE should equal 12 or 15.
(BZ80)	MANNER OF COLLISION equals 00,	CRASH TYPE must equal 00, 01-16, 92, 98, 99 for the vehicle in the first harmful event.
(BZ90)	CRASH TYPE equals 01-05, and PRE-IMPACT LOCATION is not equal to 5,	at least one SEQUENCE OF EVENTS prior to the first harmful event must equal 63.
(BZ91)	CRASH TYPE equals 06-10, and PRE-IMPACT LOCATION is not equal to 5,	at least one SEQUENCE OF EVENTS prior to the first harmful event must equal 64.
(FA1F)	CRASH TYPE for all in-transport vehicles not involved in the first harmful event must equal 98.	not involved in the first harmful event
(FP2F)	UNIT TYPE equals 1, and CRASH TYPE equals blank, case status is flawed.	
(V533)	CRASH TYPE equals 03, 08, 38, 40, 58 or 60,	ATTEMPTED AVOIDANCE
(V700)	ROLLOVER equals 2,	MANEUVER must not equal 00 or 01.
(V79P)	ROLLOVER equals 2, and FIRST HARMFUL EVENT equals 01,	CRASH TYPE should equal 01-10, 14, 98 or 99 for this vehicle.
		CRASH TYPE must equal 01-10, 14, 15 or 98 for the vehicle involved in the first harmful event.

## **VEHICLE NUMBER – PERSON LEVEL (MV OCCUPANT)**

**FORMAT:** 3 numeric

**SAS NAME:** Vehicle.VEH\_NO; Person.VEH\_NO; Parkwork.VEH\_NO

**ELEMENT VALUES:**

001-999

**Definition:** This element identifies the vehicle number associated with this motor vehicle occupant.

**Remarks:**

001-999 is used for motor vehicle occupants (In-Transport, Parked/Stopped Off Roadway/ Working Motor Vehicles and Motor Vehicles in Motion Outside the Trafficway).

Persons ejected or who fall from a motor vehicle in-transport are still considered occupants of that vehicle for the duration of the unstabilized situation.

**Consistency Check:**

IF	THEN
(CSI5) VEHICLE NUMBER at the Person Level is greater than 000,	VEHICLE NUMBER at the Person Level must equal a VEHICLE NUMBER at the Vehicle Level.

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## **PERSON NUMBER**

**FORMAT:** 3 numeric

**SAS NAME:** Person.PER\_NO

**ELEMENT VALUES:**

001-999    Assigned Number/ Computer Assigned

**Definition:** This element identifies a number for the motor vehicle occupant in consecutive order for the vehicle they occupied.

**Remarks:**

Person Number is assigned using the PAR's person number.

Person Level (Motor Vehicle Occupant) must be numbered consecutively beginning with "001" for each motor vehicle occupant. Drivers do not have to be "001." Numbers must not be skipped.

Person Level (Not a Motor Vehicle Occupant) must be numbered consecutively beginning with "001" for persons not in motor vehicles. Numbers must not be skipped.

**Consistency Check:**

**IF**

**THEN**

(CSI6)    For each VEHICLE NUMBER, PERSON NUMBERS must be consecutive, beginning with 001 and with no gaps.

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## **AGE**

**FORMAT:** 3 numeric

**SAS NAME:** Person.Age

**ELEMENT VALUES:**

	Blank
000	Less than One Year
001-120	Actual Age*
998	Not Reported
999	Unknown

**Definition:** This element identifies the persons age, in years, with respect to the person's last birthday.

**Remarks:**

If the case materials do not show the age of injured or uninjured drivers or passengers and there is no other information about age, e.g., in the narrative/diagram, then use **998 (Not Reported)**.

**998 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported".

Code **998 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

\* Values greater than "094" are unlikely occurrences, and they will raise an error flag.

\* Values greater than "120" are not permitted.

**999 (Unknown)** is used if the investigating officer indicates that this occupant's age is unknown.

**FARS SPECIAL INSTRUCTION:**

For drivers, verify age with data on Licensing File. Licensing data takes precedence over crash report data.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(7P0F)	PERSON TYPE equals 01,	AGE must not be less than 002.
(8P0P)	PERSON TYPE equals 01, and AGE is less than 008,	BODY TYPE must not equal 01-12, 14-17, 19-22, 28-33, 39-42, 45, 48-52, 55, 58-67, 71, 72, 78-83, 89, 92, 93. BODY TYPE should equal 88, 91.
(8P1P)	PERSON TYPE equals 01, and AGE is less than 008,	
(9L0F)	PERSON TYPE equals 01, and RELATED FACTORS-DRIVER LEVEL equals 12,	SEX must equal 2, and AGE must be greater than 012.
(D060)	NON-CDL LICENSE STATUS equals 1-4, 6, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 1-8, and PERSON TYPE equals 01,	AGE should not be less than 015.
(D620)	NON-CDL LICENSE TYPE equals 7,	
(D630)	NON-CDL LICENSE TYPE equals 2,	AGE (for the driver) should equal 014-016.
(D640)	AGE equals 014-017, and PERSON TYPE equals 01,	AGE (for the driver) should equal 015-017.
(D650)	AGE equals 018-120, and PERSON TYPE equals 01, and NON-CDL LICENSE STATUS does not equal 0,	NON-CDL LICENSE TYPE should equal 2, 7.
(P010)	PERSON TYPE equals 01,	NON-CDL LICENSE TYPE should equal 1.
(P020)	PERSON TYPE equals 02, 03, 09, and RESTRAINT SYSTEM/HELMET USE equals 04, 10-12,	AGE should not be less than 012.
(P180)	PERSON TYPE equals 01, and AGE is less than 009,	AGE should be less than 010, or equal to 998 or 999.
(P1A0)	AGE is less than 012, and INJURY SEVERITY equals 4,	BODY TYPE should not equal 90.
(U120)	UNLIKELY: AGE should not be greater than 094, unless equal to 998, 999.	FATAL INJURY AT WORK should equal 0.
(U360)	UNLIKELY: HIT-AND-RUN equals 0 or 9, and AGE equals 999.	

**Consistency Checks (FARS Only):**

<b>IF</b>	<b>THEN</b>
(5W0P) RELATED FACTORS-PERSON LEVEL equals 18,	SEX must equal 2, and AGE must be greater than 012.

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## **SEX**

**FORMAT:** 1 numeric

**SAS NAME:** Person.Sex

**ELEMENT VALUES:**

- 1    Male
- 2    Female
- 8    Not Reported
- 9    Unknown

**Definition:** This element identifies the sex of the person involved in the crash

**Remarks:**

If the case materials do not show the sex of injured or uninjured drivers or passengers and there is no other information about sex, e.g., in the narrative/diagram, then use **8 (Not Reported)**.

**8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported".

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**9 (Unknown)** is used if the investigating officer indicates that this occupant's sex is unknown.

**Consistency Checks:**

IF	THEN
(9L0F) PERSON TYPE equals 01, and RELATED FACTORS-DRIVER LEVEL equals 12,	SEX must equal 2, and AGE must be greater than 012.

IF	THEN
(U340) UNLIKELY: HIT-AND-RUN equals 0 or 9, and SEX equals 9.	

**Consistency Checks (FARS Only):**

IF	THEN
(5W0P) RELATED FACTORS-PERSON LEVEL equals 18,	SEX must equal 2, and AGE must be greater than 012.

## **PERSON TYPE**

**FORMAT:** 2 numeric

**SAS NAME:** Person.PER\_TYP

**ELEMENT VALUES:**

- 1      Driver of a Motor Vehicle In-Transport
- 2      Passenger of a Motor Vehicle In-Transport
- 3      Occupant of a Motor Vehicle Not In-Transport
- 09     Unknown Occupant Type in a Motor Vehicle In-Transport

**Definition:** This element describes the role of this person involved in the crash.

**Remarks:**

An involved person in a crash must maintain Person Type during the crash. Once the unstabilized situation begins, a driver, passenger or non-motorist/non-occupant cannot change Person Type until the accident stabilizes.

If a person is entering or exiting a vehicle before the unstabilized situation begins, try to determine if the person has successfully changed type before control is lost. (e.g., a pedestrian getting into an automobile that begins to move, a passenger stepping off of a bus as it begins to pull away, etc.).

Attributes 01, 02 and 09 are used for occupants of a motor vehicle in-transport. This includes occupants of motor vehicles that are in motion outside the trafficway.

**9 (Unknown Occupant Type in a Motor Vehicle In-Transport)** is used when it cannot be determined if the person was the driver or passenger, but it is known that the person was an occupant of a motor vehicle in-transport.

**Consistency Checks:**

IF	THEN
(1Q0F) PERSON TYPE equals 01, and BODY TYPE equals 80-83, 88, 89,	SEATING POSITION must not equal 12-55, 99.
(2M0F) PERSON TYPE equals 01,	SEATING POSITION must not equal 21-55.
(2Q0F) PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 01, 02, 04, 08, 10, 17, 31-33, 39-41, 45, 48, 90, 91,	SEATING POSITION must not equal 31-50.

	IF	THEN
(3H0F)	DRIVER PRESENCE equals 1,	there must be one and only one Person Level form for that vehicle with PERSON TYPE equal to 01, or there must be no Person Level form for that vehicle with PERSON TYPE equal to 01 and at least two Person Level forms for that vehicle with PERSON TYPE equal to 09.
(3M0F)	PERSON TYPE equals 01,	RESTRRAINT SYSTEM/HELMET USE must not equal 04, 10-12.
(3P0F)	PERSON TYPE equals 03-08, 10, 19	INJURY SEVERITY should not equal 6.
(3Q0F)	PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 01-16, 17, 19, 20, 22, 28-33, 39, 41, 42, 50-52, 55, 58, 59, 65, 80-83, 88-92, 94, 95, 97,	SEATING POSITION must not equal 50.
(4H0F)	DRIVER PRESENCE equals 0, 9,	there must not be a Person Level form for that vehicle with PERSON TYPE equal to 01.
(4Q0F)	PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 80-83, 88, 89,	SEATING POSITION must not equal 12, 14-19, 22-50.
(4Q1F)	PERSON TYPE equals 02, 03, and BODY TYPE equals 21,	SEATING POSITION must not equal 50, 52.
(570F)	FIRST HARMFUL EVENT equals 05, 06,	at least one PERSON TYPE equal to 01-03, 09 must have INJURY SEVERITY equal to 1-5 or blank.
(5M0F)	PERSON TYPE equals 01,	all RELATED FACTORS-PERSON LEVEL must equal 00.
(5M0G)	SPECIAL USE equals 06, and PERSON TYPE equals 02 or 09,	RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL should equal 86 or 92.
(5N0F)	PERSON TYPE equals 02,	RELATED FACTORS-PERSON LEVEL (MV Occupant) must not equal 21, 26, 28, 29, 33, 37, 40-42, 44, 45, 47, 51-53, 57-70, 72-78, 80-83, 91.
(5Q0F)	PERSON TYPE equals 02, and BODY TYPE equals 50-52, 55, 58, 59,	SEATING POSITION must not equal 11, 21-50, <b>98</b> , 99.
(5Z0F)	SEQUENCE OF EVENTS equals 08,	at least one person must have PERSON TYPE equal to 05, 10.
(6Q0F)	PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 60-67, 71, 72, 78, 79,	SEATING POSITION must not equal 31-49.

	IF	THEN
(7M0F)	PERSON TYPE equals 03, and SEATING POSITION does not equal 11,	RELATED FACTORS-PERSON LEVEL (MV Occupant) must not equal 21, 26, 28, 29, 33, 37, 40-42, 44, 45, 47, 51-53, 57-70, 72-78, 80-83, 91.
(7M1F)	<b><i>PERSON TYPE equals 03, and SEATING POSITION is not equal to 11 or 13, and INJURY SEVERITY does not equal 4,</i></b>	<b><i>DRUG TEST STATUS must not equal 8.</i></b>
(7P0F)	PERSON TYPE equals 01,	AGE must not be less than 002.
(7Q0F)	PERSON TYPE equals 09, and BODY TYPE equals 50-52, 55, 58, 59,	SEATING POSITION must not equal 12-50, 52-54.
(7Z0F)	any SEQUENCE OF EVENTS equals 05, 06,	at least one occupant of this vehicle (PERSON TYPES 01, 02, 09) must have INJURY SEVERITY equal to 1-5, or blank. BODY TYPE must not equal 01-12, 14-17, 19-22, 28-33, 39-42, 45, 48-52, 55, 58-67, 71, 72, 78-83, 89, 92, 93. BODY TYPE should equal 88, 91.
(8P0P)	PERSON TYPE equals 01, and AGE is less than 008,	UNIT TYPE must equal 2-4. PERSON TYPE of all occupants of this vehicle must equal 03.
(8P1P)	PERSON TYPE equals 01, and AGE is less than 008,	RELATED FACTORS-PERSON LEVEL (MV Occupant) must not equal 21, 26, 28, 29, 33, 37, 40-42, 44, 45, 47, 51, 52, 56-70, 72-78, 80-83, 91.
(9A5P)	PERSON TYPE equals 03,	AGE should not be less than 015.
(9B7P)	UNIT TYPE equals 2-4,	
(CL0P)	PERSON TYPE equals 09,	
(D060)	NON-CDL LICENSE STATUS equals 1-4, 6, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 1-8, and PERSON TYPE equals 01,	POLICE REPORTED ALCOHOL INVOLVEMENT should equal 1, or POLICE REPORTED DRUG INVOLVEMENT should equal 1.
(D090)	VIOLATIONS CHARGED equals 11-19, and PERSON TYPE equals 01, 03,	NON-CDL LICENSE TYPE should equal 2, 7.
(D640)	AGE equals 014-017, and PERSON TYPE equals 01,	NON-CDL LICENSE TYPE should equal 1.
(D650)	AGE equals 018-120, and PERSON TYPE equals 01, and NON-CDL LICENSE STATUS does not equal 0,	
(FP0F)	PERSON TYPE is blank, case status is flawed.	
(P010)	PERSON TYPE equals 01,	AGE should not be less than 012.

	<b>IF</b>	<b>THEN</b>
(P01F)	PERSON TYPE equals 01-03, 09, and RESTRAINT SYSTEM/HELMET USE equals 01-04, 08, 10-12, and BODY TYPE does not equal 80-89,	EJECTION should equal 0 or 7.
(P020)	PERSON TYPE equals 02, 03, 09, and RESTRAINT SYSTEM/HELMET USE equals 04, 10-12,	AGE should be less than 010, or equal to 998 or 999.
(P030)	PERSON TYPE equals 01,	SEATING POSITION should not equal 12-19.
(P040)	PERSON TYPE equals 02, 09,	SEATING POSITION should not equal 11.
(P071)	PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	ALCOHOL TEST STATUS should not equal 9, ALCOHOL TEST TYPE should not equal 99, and ALCOHOL TEST RESULT should not equal 99.
(P072)	PERSON TYPE equals 02, 03, and INJURY SEVERITY equals 0, and ALCOHOL TEST RESULT equals 96,	POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 8.
(P073)	PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	DRUG TEST STATUS should not equal 9, and any DRUG TEST TYPE should not equal 9, and any DRUG TEST RESULTS should not equal 999.
(P130)	BODY TYPE equals 60-67, 71, 72, 78, 79, and PERSON TYPE equals 01, 03, and INJURY SEVERITY equals 4,	FATAL INJURY AT WORK should equal 1.
(P180)	PERSON TYPE equals 01, and AGE is less than 009,	BODY TYPE should not equal 90.

## INJURY SEVERITY

**FORMAT:** 1 numeric

**SAS NAME:** Person.Inj\_Sev

**ELEMENT VALUES:**

- 0 No Apparent Injury (O)
- 1 Possible Injury (C)
- 2 Suspected Minor Injury (B)
- 3 Suspected Serious Injury (A)
- 4 Fatal Injury (K)
- 5 Injured, Severity Unknown
- 6 Died Prior to Crash\*
- 9 Unknown

**Definition:** This element describes the severity of the injury to this person in the crash.

**Remarks:**

Enter the police reported injury severity for this person (i.e., occupant, pedestrian or non-motorist). Most jurisdictions use the KABCO injury coding scheme.

K = Killed

A = Incapacitating Injury

B = Non-incapacitating Injury

C = Possible Injury

O = No Injury

If the police report contains a detailed description of the injuries but does not translate the injuries into the KABCO codes, use the police method for doing so. For example, injuries that are considered to be of an incapacitating nature are classified as "A", Non-incapacitating-evident injuries are classified as "B", and possible injuries are "C". Property damage only (i.e., no injury) is classified as "O".

As a general rule, if the PAR is "blank" where the injury severity is assessed and the person was at the scene during the police investigation, enter 0 (No Injury [O]). If the PAR is "blank" and the person was not present during the police investigation, enter **9 (Unknown)**.

**10 (No Apparent Injury)** is a situation where there is no reason to believe that the person received any bodily harm from the motor vehicle crash. There is no physical evidence of injury and the person does not report any change in normal function. Prior to 2013, this attribute was known as "**0 - No Injury**".

**1 (Possible Injury)** is any injury reported or claimed that is not a fatal injury, suspected serious injury or suspected minor injury. Examples include: momentary loss of consciousness, claim of injury limping, complaint of pain or nausea. Possible injuries are those which are reported by the person or are indicated by his/her behavior, but no wounds or injuries are readily evident.

**2 (Suspected Minor Injury)** is any injury that is evident at the scene of the crash, other than fatal or serious injuries. Examples include lump on the head, abrasions, bruises, minor lacerations (cuts on the skin surface with minimal bleeding and no exposure of deeper tissue/muscle). This does not include momentary unconsciousness. (See **1 (Possible Injury)**). Prior to 2013, this attribute was known as "**2 - Non-Incapacitating Evident Injury**".

**3 (Suspected Serious Injury)** is any injury other than fatal which results in one or more of the following:

- Severe laceration resulting in exposure of underlying tissues/muscle/organs or resulting in significant loss of blood
- Broken or distorted extremity (arm or leg)
- Crush injuries
- Suspected skull, chest or abdominal injury other than bruises or minor lacerations
- Significant burns (second and third degree burns over 10% or more of the body)
- Unconsciousness when taken from the crash scene
- Paralysis

This does not include limping (the injury cannot be seen). (See **1 (Possible Injury)**). Prior to 2013, this attribute was known as "**3 - Incapacitating Injury**".

**4 (Fatal Injury)** A fatal injury is any injury that results in death within 30 days after the motor vehicle crash in which the injury occurred. If the person did not die at the scene but died within 30 days of the motor vehicle crash in which the injury occurred, the injury classification should be changed from the attribute previously assigned to the attribute **4 (Fatal Injury)**.

**6 (Died Prior To Crash)** refers to non-motor vehicle fatalities that are involved in a motor vehicle crash; e.g., a heart attack victim, a homicide victim, a suicide or person involved in a legal intervention that is involved in a motor vehicle traffic crash.

This attribute is used only if the police explicitly states the person died prior to the crash and the police report indicates the person died as a result of natural causes (e.g., heart attack), disease, drug overdose or alcohol poisoning, suicide, homicide and legal intervention.

This attribute also applies if the police report indicates that the person died as a result of natural causes (e.g., heart attack) or disease but is silent about the time of on-set or if on-set is the result of injuries sustained in the crash.

In suicide incidents, use the following criteria:

1. If the only fatality is the suicide victim and it can be ascertained that the crash was a suicide, do not code the case.
2. If other fatalities occur, code the case as appropriate. The suicide victim's Injury Severity should be coded **6 (Died Prior to Crash)** if the death occurred at the time of the crash (or prior) or **0 (No Apparent Injury)** if the death occurred after the crash.

This attribute does not apply if the police report specifically states that the cause of death is a result of crash-related injury or that on-set occurred after the crash.

\* This value is an unlikely occurrence and will raise an edit flag

#### **FARS SPECIAL INSTRUCTION:**

Each case must have at least one Person Level form with Injury Severity attribute **4 (Fatal injury)**. See Definition: ANSI D16.1; 2.3.1 and 2.3.2

#### **Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(1R0P)	SEATING POSITION equals 51, and BODY TYPE equals 50-52, 55, 58, 59,	INJURY SEVERITY must not equal 0, 9.
(1R1P)	If DIED AT SCENE/EN ROUTE equals 7, 8,	INJURY SEVERITY must equal 4.
(1U1F)	INJURY SEVERITY equals 4,	DEATH DATE must not equal 88888888.
(1U2F)	INJURY SEVERITY equals 4,	DEATH TIME must not equal 8888.
(2U1F)	INJURY SEVERITY is not equal to 4,	DEATH DATE must equal 88888888.
(2U2F)	INJURY SEVERITY is not equal to 4,	DEATH TIME must equal 8888.
(2U3F)	INJURY SEVERITY equals 3,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 0.
(3P0F)	PERSON TYPE equals 03-08, 10, 19,	INJURY SEVERITY should not equal 6.
(4V1F)	INJURY SEVERITY equals 4,	DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME.
(570F)	FIRST HARMFUL EVENT equals 05, 06,	at least one PERSON TYPE equal to 01-03, 09 must have INJURY SEVERITY equal to 1-5, or blank.
(7E0P)	INJURY SEVERITY equals 4,	DEATH CERTIFICATE NUMBER must NOT equal 0000-00-000000.
(7E1P)	INJURY SEVERITY equals 4,	RACE must not equal 00.
(7E2P)	INJURY SEVERITY equals 4,	HISPANIC ORIGIN must not equal 00.

IF	THEN
(7E3P) INJURY SEVERITY does not equal 4,	RACE AND HISPANIC ORIGIN must equal 00.
(7E3P) INJURY SEVERITY does not equal 4,	RACE AND HISPANIC ORIGIN must equal 00.
(7F0P) DEATH CERTIFICATE NUMBER is not blank or 0000-00-000000,	INJURY SEVERITY must equal 4.
(7F1P) RACE equals 00,	INJURY SEVERITY must not equal 4.
(7F2P) HISPANIC ORIGIN equals 00,	INJURY SEVERITY must not equal 4.
(7F3P) RACE is not equal to 00, and	INJURY SEVERITY must equal 4.
HISPANIC ORIGIN is not equal to 00,	
<b>(7M1F) <i>PERSON TYPE equals 03, and SEATING POSITION is not equal to 11 or 13, and INJURY SEVERITY does not equal 4,</i></b>	<b><i>DRUG TEST STATUS must not equal 8.</i></b>
(7R0P) FATAL INJURY AT WORK equals 0, 1, 9,	INJURY SEVERITY must equal 4.
(7W0P) FATAL INJURY AT WORK equals 8,	INJURY SEVERITY must not equal 4.
(7Z0F) any SEQUENCE OF EVENTS equals 05, 06,	at least one occupant of this vehicle (PERSON TYPES 01, 02, 09) must have INJURY SEVERITY equal to 1-5, or blank.
(FP8F) INJURY SEVERITY is blank, case status is flawed.	
(P071) PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	ALCOHOL TEST STATUS should not equal 9, ALCOHOL TEST TYPE should not equal 99, and ALCOHOL TEST RESULT should not equal 99.  POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 8.
(P072) PERSON TYPE equals 02, 03, and INJURY SEVERITY equals 0, and ALCOHOL TEST RESULT equals 96,	
(P073) PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	DRUG TEST STATUS should not equal 9, and any DRUG TEST TYPE should not equal 9, and any DRUG TEST RESULTS should not equal 999.
(P090) INJURY SEVERITY equals 0,	TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.
(P130) BODY TYPE equals 60-67, 71, 72, 78, 79, and PERSON TYPE equals 01, 03, and INJURY SEVERITY equals 4,	FATAL INJURY AT WORK should equal 1.
(P1A0) AGE is less than 012, and INJURY SEVERITY equals 4,	FATAL INJURY AT WORK should equal 0.
(P300) POLICE REPORTED ALCOHOL INVOLVEMENT equals 1, and INJURY SEVERITY equals 4,	ALCOHOL TEST STATUS should not equal 0, 1.

IF	THEN
(P53P) INJURY SEVERITY equals 0-3, 5, 6,	DIED AT SCENE/EN ROUTE must equal 0.
(U160) UNLIKELY: INJURY SEVERITY equals 6.	
(U350) UNLIKELY: INJURY SEVERITY equals 1-6, and SEATING POSITION equals 98.	

**Consistency Check (GES Only):**

IF	THEN
(5A4P) FINAL STRATUM equals 1,	<p>there should exist:</p> <ul style="list-style-type: none"> <li>1) at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 4 for at least one occupant of that vehicle; or</li> <li>2) one and only one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 3 for at least one occupant of that vehicle; or</li> <li>3) 2 or more vehicles where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and at least 2 vehicles where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 3 for at least one occupant of a vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2.</li> </ul>
(5A5P) FINAL STRATUM equals 5,	<p>there should exist at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 1, 2, 3 or 5 for at least one occupant of that vehicle.</p>

<b>IF</b>	<b>THEN</b>
(5A6P) FINAL STRATUM equals 2,	there 1) should exist at least one vehicle where UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2; or 2) INJURY SEVERITY should equal 1-5 for at least one person in the crash. INJURY SEVERITY must equal 2-4 for at least one person in the crash.
(5A7P) FINAL STRATUM equals 3,	INJURY SEVERITY must not equal 2-4 for any person in the crash.
(5A8P) FINAL STRATUM equals 4,	there should exist no vehicles where BODY TYPE equals 60-79, and UNIT TYPE equals 1.
(5A9P) FINAL STRATUM equals 4, and INJURY SEVERITY equals 1,	

**Consistency Check (FARS Only):**

<b>IF</b>	<b>THEN</b>
(4U0F) Each original submission must have at least one Person Level form with INJURY SEVERITY coded 4.	

## **SEATING POSITION**

**FORMAT:** 2 numeric

**SAS NAME:** Person.Seat\_Pos

**ELEMENT VALUES:**

- 11 Front Seat, Left Side
- 12 Front Seat, Middle
- 13 Front Seat, Right Side
- 18 Front Seat, Other
- 19 Front Seat, Unknown
- 21 Second Seat, Left Side
- 22 Second Seat, Middle
- 23 Second Seat, Right Side
- 28 Second Seat, Other
- 29 Second Seat, Unknown
- 31 Third Seat, Left Side
- 32 Third Seat, Middle
- 33 Third Seat, Right Side
- 38 Third Seat, Other
- 39 Third Seat, Unknown
- 41 Fourth Seat, Left Side
- 42 Fourth Seat, Middle
- 43 Fourth Seat, Right Side
- 48 Fourth Seat, Other
- 49 Fourth Seat, Unknown
- 50 Sleeper Section of Cab (Truck)
- 51 Other Passenger in enclosed passenger or cargo area
- 52 Other Passenger in unenclosed passenger or cargo area
- 53 Other Passenger in passenger or cargo area, unknown whether or not enclosed
- 54 Trailing Unit
- 55 Riding on Exterior of Vehicle
- 98 Not Reported
- 99 Unknown

**Definition:** This element identifies the location of this person in or on the vehicle.

**Remarks:**

Seating Position is determined by the location of the occupant in relation to the seat row and the forward longitudinal axis of the vehicle.

More than one person may be assigned the same seating position; however, this is allowed only when a person is sitting on someone's lap (e.g., child on mother's lap).

If the PAR does not specifically state that one person was on the lap of another, then see the discussion below under **18 (Front Seat, Other)**, **28 (Second Seat, Other)**, **38 (Third Seat, Other)** and **48 (Fourth Seat, Other)**.

In seating rows designated for only two passengers, use **11 (Front Seat, Left Side)**, **13 (Front Seat, Right Side)**, **21 (Second Seat, Left Side)**, **23 (Second Seat, Right Side)**, **31 (Third Seat, Left Side)**, **33 (Third Seat, Right Side)**, **41 (Fourth Seat, Left Side)**, **43 (Fourth Seat, Right Side)** or **51 (Other Passenger in enclosed passenger or cargo area)**.

**11 (Front Seat, Left Side)** is used if there is an assumed driver of a hit-and-run vehicle unless evidence indicates a different position for the person or persons.

**18 (Front Seat, Other)**, **28 (Second Seat, Other)**, **38 (Third Seat, Other)** and **48 (Fourth Seat, Other)** are used to record the position of someone sitting on the floor or lying across the seat. In addition, enter these attributes when two or more persons are sitting abreast of one another in the same seating location (as opposed to on or in someone's lap), since only one occupant can be assigned the seat's position. If the PAR provides enough specific information, and only one person was using a restraint, then assign the seat position to the person using the restraint. If no restraint was used, or both people were sharing a restraint, then assign the seat position to the older person.

**18 (Front Seat, Other)** is used if the only seat in the front seating area is a driver's seat (e.g., bucket, pedestal, etc.), and the occupant was in the area but not in the seat. This situation could occur because of vehicle design or seat removal. The same logic applies to other seat areas.

**50 (Sleeper Section of Cab [Truck])** is used if the occupant's vehicle is a medium or heavy truck and has a cab sleeper, and this occupant is in the sleeper section at the time of the crash.

**51 (Other Passenger in Enclosed Passenger or Cargo Area)** is used when an occupant is in the fifth or higher numbered seat row, in an enclosed area where no defined seating exists or using a fold-down type seat in its folded-down position. This attribute is also used for bus passengers in undetermined seating (not driver) and for bus occupants that fall from an open door.

Note: Persons in treatment compartment of an ambulance, code as **51 (Other Passenger in Enclosed Passenger or Cargo Area)**. (See examples under Related Factors - Person (MV Occupant) Level attribute **92 (Person in Ambulance Treatment Compartment)**.)

Enter **52 (Other Passenger in Unenclosed Passenger or Cargo area)** when an occupant is in the fifth or higher numbered seat area, in an unenclosed area where no defined seating

exists or using a fold-down type seat in its folded-down position. Examples include passenger riding in an open pickup bed, top of open double-decker bus, etc.

If seating in the vehicle is longitudinal rather than lateral, use the basic idea of a vehicle interior being divided laterally into roughly equal thirds and visualize lateral rows of seats to determine what seat position is the best descriptor.

For rearward facing seats, use the basic idea described in the previous paragraph to describe the occupant's seat position.

If a seat row has more than three designated seat positions, the occupants should have their positions assigned as usual for the left and right positions, while the two center positions would be entered as **Other** (i.e., **18 (Front Seat, Other)**, **28 (Second Seat, Other)**, **38 (Third Seat, Other)**; **48 (Fourth Seat, Other)** or **51 (Other Passenger in Enclosed Passenger or Cargo Area)**) depending upon the seat row.

For motorcycles, enter the driver **11 (Front Seat, Left Side)**; sidecar passenger **13 (Front Seat, Right Side)**; passenger behind the driver **21 (Second Seat, Left Side)** and passenger on the lap of the driver (in front of) **11 (Front Seat, Left Side)**.

**54 (Trailing Unit)** is used when an occupant is in or on a trailing unit (i.e., Vehicle Trailing, for this occupant's vehicle must be coded  $\geq 1$ , one or more trailing units).

**55 (Riding on Exterior of Vehicle)** is used when an occupant is riding on a fender, the boot of a convertible, etc.

If the case materials do not show the seating row of a passenger and there is no other information about seating position, e.g., in the narrative/diagram, then use **98 (Not Reported)**.

### **98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **98 (Not Reported)** in these two situations:

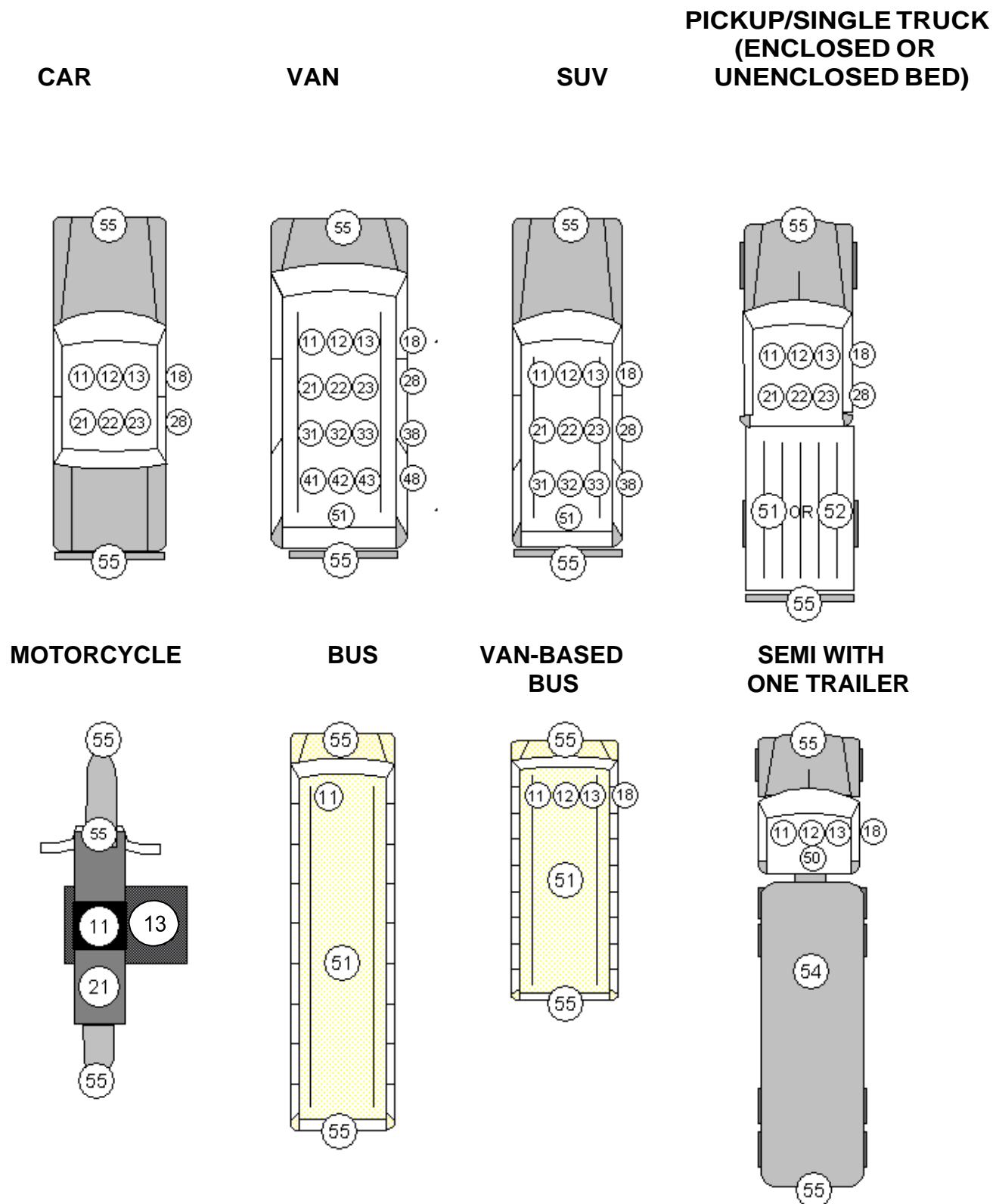
1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown)** is used if the investigating officer indicates that this occupant's seating position is unknown.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(1Q0F)	PERSON TYPE equals 01, and BODY TYPE equals 80-83, 88, 89,	SEATING POSITION must not equal 12-55, 99.
(1R0P)	SEATING POSITION equals 51, and BODY TYPE equals 50-52, 55, 58, 59,	INJURY SEVERITY must not equal 0, 9.
(2M0F)	PERSON TYPE equals 01,	SEATING POSITION must not equal 21-55.
(2Q0F)	PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 01, 02, 04, 08, 10, 17, 31-33, 39-41, 45, 48, 90, 91,	SEATING POSITION must not equal 31-50.
(3Q0F)	PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 01-17, 19, 20, 22, 28-33, 39, 41, 42, 50-52, 55, 58, 59, 65, 80-83, 88-92, 94, 95, 97,	SEATING POSITION must not equal 50.
(3R0P)	AIR BAG DEPLOYED does not equal 00, 98 or 99,	SEATING POSITION should not equal 12, 22, 32, 41-55.
(3S0P)	SEATING POSITION equals 55,	EJECTION must equal 8.
(4Q0F)	PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 80-83, 88, 89,	SEATING POSITION must not equal 12, 14-19, 22-50.
(4Q1F)	PERSON TYPE equals 02, 03, and BODY TYPE equals 21,	SEATING POSITION must not equal 50, 52.
(4R0P)	SEATING POSITION equals 54,	VEHICLE TRAILING must not equal 0.
(5Q0F)	PERSON TYPE equals 02, and BODY TYPE equals 50-52, 55, 58, 59,	SEATING POSITION must not equal 11, 21-50, 98, 99.
(6Q0F)	PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 60-67, 71, 72, 78, 79,	SEATING POSITION must not equal 31-49.
(7M0F)	PERSON TYPE equals 03, and SEATING POSITION does not equal 11,	RELATED FACTORS-PERSON LEVEL (MV Occupant) must not equal 21, 26, 28, 29, 33, 37, 40-42, 44, 45, 47, 51-53, 57-70, 72-78, 80-83, 91.
(7M1F)	<b><i>PERSON TYPE equals 03, and SEATING POSITION is not equal to 11 or 13, and INJURY SEVERITY does not equal 4,</i></b>	<b><i>DRUG TEST STATUS must not equal 8.</i></b>
(7Q0F)	PERSON TYPE equals 09, and BODY TYPE equals 50-52, 55, 58, 59,	SEATING POSITION must not equal 12-50, 52-54.

	IF	THEN
(BP0P)	MODEL YEAR is greater than 1999, and BODY TYPE does not equal 50-52, 58-66, 71-79, 80-83, 88-93, 95, 97, and SEATING POSITION equals 11, 13, 18, 19,	AIR BAG DEPLOYED should not equal 00.
(P030)	PERSON TYPE equals 01,	SEATING POSITION should not equal 12-19.
(P040)	PERSON TYPE equals 02, 09,	SEATING POSITION should not equal 11.
(P060)	SEATING POSITION equals 18, 28, 38, 48, 50-55,	RESTRAINT SYSTEM/HELMET USE should not equal 01, 03.
(P094)	EJECTION equals 8,	SEATING POSITION must equal 55, or BODY TYPE must equal 80-83, 88, 89.
(P210)	AIR BAG DEPLOYED equals 28,	SEATING POSITION should equal 13.
(P230)	SEATING POSITION equals 21, 23, 28, 29, 31, 33, 38 or 39, and BODY TYPE equals 50-97,	AIR BAG DEPLOYED should equal 00.
(P260)	SEATING POSITION equals 18-19,	AIR BAG DEPLOYED should equal 00, 99.
(P290)	AIR BAG DEPLOYED equals 01-03, 07-09, 20, 28, and BODY TYPE equals 01-49, and MODEL YEAR equals 1998 or newer,	SEATING POSITION should equal 11, 13, 21, 23, 31 or 33.
(P320)	SEATING POSITION equals 22, 23, 31- <b>53</b> ,	RESTRAINT SYSTEM/HELMET USE must not equal 05, 16, 17, 19, 29.
(P330)	RESTRAINT SYSTEM/HELMET USE equals 00,	SEATING POSITION should equal 50-55.
(P340)	SEATING POSITION equals 50, 52-55,	RESTRAINT SYSTEM/HELMET USE should equal 00.
(U130)	UNLIKELY: SEATING POSITION equals 41-43, 48.	41-43, 48.
(U350)	UNLIKELY: INJURY SEVERITY equals 1-6, and SEATING POSITION equals 98.	
(V320)	BODY TYPE equals 50-52, 55, 58-66, 71-79, and SEATING POSITION does not equal 11, 13, 98,	AIR BAG DEPLOYED should equal 00.
(V950)	VEHICLE MODEL YEAR is less than 1994, and SEATING POSITION equals 31, 33, 39,	RESTRAINT SYSTEM/HELMET USE should not equal 01, 03, and BODY TYPE should equal 12, 15, 16, 19-21.



\* For van-based buses, use the actual seating position if known, or use code "51" for the 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> rows, if actual seating position is not known.

## **RESTRAINT SYSTEM/HELMET USE**

**FORMAT:** 2 numeric

**SAS NAME:** Person.REST\_USE

**ELEMENT VALUES:**

00	Not Applicable
07	None Used
03	Shoulder and Lap Belt Used
1	Shoulder Belt Only Used
2	Lap Belt Only Used
08	Restraint Used - Type Unknown
10	Child Restraint System - Forward Facing
11	Child Restraint System - Rear Facing
12	Booster Seat
4	Child Restraint Type Unknown
5	DOT-Compliant Motorcycle Helmet
16	Helmet, Other than DOT-Compliant Motorcycle Helmet
19	Helmet, Unknown if DOT-Compliant
17	No Helmet
29	Unknown if Helmet Worn
97	Other
98	Not Reported
99	Unknown

**Definition:** This element records the restraint equipment in use by the occupant, or the helmet in use by a motorcyclist, at the time of the crash.

**Remarks:**

Code this element regardless of whether the vehicle is equipped with manual systems, automatic belts or harnesses, air bags, or any combination of these. Whether the restraint was manual or automatic will be determined via the VIN. Even if the VIN is unknown, use this rule.

The child restraints/booster seats take precedence over the belt use. For a child in a child restraint system not using the 5-point harness or in a booster not using the belt restraint code the child restraint system or booster and indicate mis-use.

**00 (Not Applicable)** is used when the case material indicates that no restraint was available in the seat position of this occupant. Use this attribute for persons who are riding in the sleeper section of the cab of a truck, for persons who are riding on the exterior of the vehicle, and for persons in unenclosed cargo areas, such as a bed of a pickup truck.

**07 (None Used)** is used when the case materials indicate that the occupant did not use a restraint. In order to code this value, the case materials first have to indicate that there was a restraint available and that the occupant of that seat position did not use the available restraint. In the case of a motorcycle occupant without a helmet, use **17 (No Helmet)**.

**03 (Shoulder and Lap Belt Used)** is used when the occupant restraint system consists of both the shoulder belt and lap belt portions and is connected to a buckle.

**1 (Shoulder Belt Only Used)** is used for a two-part occupant restraint system and only the shoulder belt portion is connected to a buckle.

Example:

You are coding a driver in the vehicle that is indicated by the PAR to have an automatic shoulder harness and a manual belt. The police state that the shoulder harness was used at the time of the crash, but the lap belt was not. Code as **01 (Shoulder Belt Only Used)**.

**2 (Lap Belt Only Used)** is used when the occupant is using a lap safety belt either because the motor vehicle is equipped only with a lap belt or because the shoulder belt is not in use.

Note: The presence of an air bag system does not mean that there are no active belts present. In fact, most air bag equipped vehicles also have some belt restraint system installed in the seat positions protected by the air bags.

**08 (Restraint Used - Type Unknown)** is used when the investigating officer indicates that some type of restraint was in use but the type of restraint is not clear.

The attribute scheme on some PARs may offer a choice, such as "seatbelt/harness" or "lap/shoulder" but does not distinguish between "lap belt only," "shoulder belt only," or "combination lap and shoulder belt." If your PAR has such a coding scheme and the officer checks, e.g.; "seat belt/harness," then the attribute should be **08 (Restraint Used - Type Unknown)** unless the narrative clarifies which type of restraint was used.

**10 (Child Restraint System - Forward Facing)** is used when a child passenger is seated in a forward facing child safety seat. This does not imply correct use or placement of the seat.

**11 (Child Restraint System - Rear Facing)** is used when a child passenger is seated in a rearward facing child safety seat. This does not imply correct use or placement of the seat.

**12 (Booster Seat)** is used when a child passenger is seated in a "belt-positioning seat" that positions a child on a vehicle seat to improve the fit of the child in a lap and shoulder seat belt system.

Motorcycle helmets that are compliant with Federal Motor Vehicle Safety Standards typically weigh approximately 3 pounds, have an inner liner at least one-inch thick of firm polystyrene foam, have an inside label that states the manufacturer, model and date of manufacture, and have a DOT sticker on the back of the helmet.

**05 (DOT-Compliant Motorcycle Helmet)** is a motorcycle helmet that is compliant with Federal Motor Vehicle Safety Standards. It must be specifically indicated to be "DOT-Compliant" in the case materials to code this attribute, otherwise use **19 (Helmet, Unknown if DOT-Compliant)**.

**16 (Helmet, Other than DOT-Compliant Motorcycle Helmet)** is a motorcycle helmet that is not a DOT-compliant helmet. This also would include bicycle helmets, skateboard helmets and novelty helmets.

**19 (Helmet, Unknown if DOT-Compliant)**. A motorcycle helmet was indicated to be worn by the motorcycle rider, but the investigating officer did not identify if it is a DOT-compliant motorcycle helmet.

**17 (No Helmet)** is used when the investigating officer indicates that the occupant of a motorcycle was not wearing a helmet.

**29 (Unknown if Helmet Worn)** is used when the case materials specifically indicate *helmet use* is unknown for a ***motorcycle, moped, ATV/ATC, or snowmobile occupant***.

**97 (Other)** is used when the case materials indicated that some other type of restraint not listed was being used at the time of the crash.

If the case materials do not show the restraint system or helmet use of injured or uninjured driver or passengers and there is no other information about restraint system or helmet use, e.g., in the narrative/diagram, then use **98 (Not Reported)**.

#### **98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown)** is used when the investigating officer indicates that the restraint system use was unknown for vehicle occupants other than ***motorcycle, moped, ATV/ATC, or snowmobile occupants***.

### **FARS SPECIAL INSTRUCTION:**

Prior to 2007, this data element was called “Restraint” System Use before being changed to “Protection System Use.” In 2010, this element was changed to Restraint System/Helmet Use to align with MMUCC.

#### **Guidelines When Police and EMS/M.E. Differ:**

Occasionally, information from EMS personnel or medical examiners (M.E.) includes statements about protection/restraint use or presence. If these people were in a position to have information when the investigating officer(s) could not (e.g., EMS arrived and removed victims from vehicles before police arrived or the medical examiner reports definite indications of belt usage), then the EMS/M.E. assessment may override the PAR assessment of Restraint System/Helmet Use. **Make sure to note the arrival times of Police and EMS before making a decision.**

Rules of thumb are as follows, unless you have information to the contrary:

If the M.E./EMS report that a restraint was used but the PAR/Police report “NOT USED” or “UNKNOWN,” then accept the EMS/M.E. assessment. On the other hand, if the M.E./EMS report “NOT USED” but the PAR/Police report that a restraint was used, then try to verify the police assessment that a restraint was used. If the PAR/Police report that a restraint was used or was not used but the M.E./EMS report “UNKNOWN,” then accept the Police assessment.

Note: Beginning in 2013, this element’s attributes for collecting data on motorcycle helmets were modified to conform to the 4<sup>th</sup> edition of the MMUCC guideline.

#### **Consistency Checks:**

IF	THEN
(2R0P) RESTRAINT SYSTEM/HELMET USE equals 00-04, 07-12,	BODY TYPE must not equal 80-83, 88, 89, 90, 91.
(2R1P) ANY INDICATION OF MIS-USE OF RESTRAINT SYSTEM /HELMET USE equals 1,	RESTRAINT SYSTEM/HELMET USE must equal 01-05, 08-12, 19, 97.
(2S0P) RESTRAINT SYSTEM/HELMET USE equals 05, 16, 17, 19 or 29,	AIR BAG DEPLOYED should equal 00.
(2S1P) RESTRAINT SYSTEM/HELMET USE equals 07, 16 or 17,	ANY INDICATION OF MIS-USE OF RESTRAINT SYSTEM/HELMET USE must equal 0.
(3M0F) PERSON TYPE equals 01,	RESTRAINT SYSTEM/HELMET USE must not equal 04, 10-12.
(981P) BODY TYPE equals 80-83, 88, 89, 90, 91,	RESTRAINT SYSTEM/HELMET USE must equal 05, 16, 17, 19, 29, 97, 98.

	IF	THEN
(982P)	BODY TYPE does not equal 80-83, 88, 89, 90, 91,	RESTRAINT SYSTEM/HELMET USE must not equal 05, 16, 17, 19, 29.
(D570)	any VIOLATIONS CHARGED equals 83,	not all occupants of this vehicle should have RESTRAINT SYSTEM/HELMET USE equal to 01-05, 08, 10-12, 16, 19. EJECTION should equal 0 or 7.
(P01F)	PERSON TYPE equals 01-03, 09, and RESTRAINT SYSTEM/HELMET USE equals 01-04, 08, 10-12, and BODY TYPE does not equal 80-89,	
(P020)	PERSON TYPE equals 02, 03, 09, and RESTRAINT SYSTEM/HELMET USE equals 04, 10-12,	AGE should be less than 010, or equal to 998 or 999.
(P050)	EJECTION equals 1,	RESTRAINT SYSTEM/HELMET USE should not equal 01-04, 08, 10-12.
(P060)	SEATING POSITION equals 18, 28, 38, 48, 50-55,	RESTRAINT SYSTEM/HELMET USE should not equal 01, 03.
(P310)	EJECTION equals 1-3, and BODY TYPE does not equal 90, 91, 97,	RESTRAINT SYSTEM/HELMET USE must not equal 05, 16, 17, 19, 29.
(P320)	SEATING POSITION equals 22, 23, 31- <b>53</b> ,	RESTRAINT SYSTEM/HELMET USE must not equal 05, 16, 17, 19, 29.
(P330)	RESTRAINT SYSTEM/HELMET USE equals 00,	SEATING POSITION should equal 50-55.
(P340)	SEATING POSITION equals 50, 52-55,	RESTRAINT SYSTEM/HELMET USE should equal 00.
(U170)	UNLIKELY: RESTRAINT SYSTEM/HELMET USE equals 01.	
(V050)	RESTRAINT SYSTEM/HELMET USE equals 05, 16, 17, 19, 29,	BODY TYPE must equal 80-83, 88-91.
(V950)	VEHICLE MODEL YEAR is less than 1994, and SEATING POSITION equals 31, 33, 39,	RESTRAINT SYSTEM/HELMET USE should not equal 01, 03, and BODY TYPE should equal 12, 15, 16, 19-21.

**Consistency Checks (FARS Only):**

	IF	THEN
(U520)	UNLIKELY: RESTRAINT SYSTEM/HELMET USE equals 98.	

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## **ANY INDICATION OF MIS-USE OF RESTRAINT SYSTEM/HELMET USE**

**FORMAT:** 1 numeric

**SAS NAME:** Person.REST\_MIS

**ELEMENT VALUES:**

0	No
1	Yes

**Definition:** This element indicates any mis-use of the restraint system or helmet used by this person.

**Remarks:**

**0 (No)** is used when the case materials indicate that the restraints or helmet use were not mis-used. Also, included in **0 (No)** is Unknown. If the investigating officer states that the restraints were being used but it couldn't be determined if they were mis-used use this attribute

**1 (Yes)** is used when the case materials indicate that the restraints or helmet use were mis-used at the time of the crash.

**Examples:**

- The investigating officer states in the crash report that the driver of Vehicle 1 had the shoulder belt portion of the seatbelt behind his back.
- The investigating officer states the operator of the motorcycle had the helmet on backwards.
- The investigating officer states in the crash report that two persons were secured in one restraint.
- The investigating officer states the child was in a booster seat but not using the vehicles restraint system.
- The investigating officer states the child restraint system was properly secured however the child was not using the 5-point harness system.
- The investigating officer states the child restraint system was not properly secured in the vehicle.

An indication of **1 (Yes)** requires a positive response in the case materials, if not default to **0 (No)**.

**Consistency Checks:**

IF	THEN
(2R1P) ANY INDICATION OF MIS-USE OF RESTRAINT SYSTEM /HELMET USE equals 1,	RESTRAINT SYSTEM/HELMET USE must equal 01-05, 08-12, 19, 97.
(2S1P) RESTRAINT SYSTEM/HELMET USE equals 07, 16 or 17,	ANY INDICATION OF MIS-USE OF RESTRAINT SYSTEM/HELMET USE must equal 0.

## AIR BAG DEPLOYED

**FORMAT:** 2 numeric

**SAS NAME:** Person.AIR\_BAG

**ELEMENT VALUES:**

1	Not Applicable
2	Deployed-Front
3	Deployed-Side (door, seatback)
4	Deployed-Curtain (roof)
7	Deployed-Other (knee, air belt, etc.)
8	Deployed-Combination
9	Deployment-Unknown Location
20	Not Deployed
28	Switched Off
98	Not Reported
99	Deployment Unknown

**Definition:** This element is used to record air bag availability and deployment for this person as reported in the case materials.

**Remarks:**

Code this element regardless of the motor vehicle's Body Type or the age of the motor vehicle.

**00 (Not Applicable)** is used when the case materials indicate there was no air bag available for this person. Examples include any of the following terms.

- Not Applicable, No Air bag, Not Equipped, Not Present, None, Not available/Unavailable, Not Installed

**20 (Not Deployed)** is used only if the available information indicates the vehicle is equipped with an air bag (air bags) for this occupant's position, but it (they) did not deploy in this crash.

**01 (Deployed-Front), 02 (Deployed-Side), 03 (Deployed-Curtain), 07 (Deployed-Other), 08 (Deployed-Combination), and 09 (Deployment-Unknown Location)** are used only if you have indication in the available information that an air bag deployed for this occupant's seat position (not for others in the vehicle.) There may be multiple air bags available for this occupant's seat position. **01 (Deployed-Front), 02 (Deployed-Side)** and **03 (Deployed-Curtain)** are used if case materials indicate that at least one air bag deployed for this person from only one of these directions. **08 (Deployed-Combination)** is used if case materials indicate that air bags deployed from more than one direction (e.g., SIDE and FRONT) for this seat position. **09 (Deployment-Unknown Location)** is used if an air bag did deploy for this person, but the origin of the air bag is not known.

**28 (Switched Off)** is used when the case materials indicate that any air bag for this occupant's position was manually switched off and did not deploy. This attribute takes precedence over all other codes for this seating position.

### **98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Deployment Unknown)** is used if the investigating officer indicates that deployment of an air bag was unknown. This attribute includes both situations where it is unknown if an air bag was available and situations where it is identified that it is unknown if an available air bag deployed. This attribute would be applicable to hit and run vehicles that are not identified.

### **Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(2S0P)	RESTRAINT SYSTEM/HELMET USE equals 05, 16, 17, 19 or 29,	AIR BAG DEPLOYED should equal 00.
(2U0P)	BODY TYPE equals 80-83, 88-91,	AIR BAG DEPLOYED should equal 00.
(3R0P)	AIR BAG DEPLOYED does not equal 00, 98 or 99,	SEATING POSITION should not equal 12, 22, 32, 41-55.
(BP0P)	MODEL YEAR is greater than 1999, and BODY TYPE does not equal 50-52, 58-66, 71-79, 80-83, 88-93, 95, 97, and SEATING POSITION equals 11, 13, 18, 19,	AIR BAG DEPLOYED should not equal 00.
(P210)	AIR BAG DEPLOYED equals 28,	SEATING POSITION should equal 13.
(P230)	SEATING POSITION equals 21, 23, 28, 29, 31, 33, 38 or 39, and BODY TYPE equals 50-97,	AIR BAG DEPLOYED should equal 00.
(P260)	SEATING POSITION equals 18, 19,	AIR BAG DEPLOYED should equal 00, 99.

	<b>IF</b>	<b>THEN</b>
(P290)	AIR BAG DEPLOYED equals 01-03, 07-09, 20, 28, and BODY TYPE equals 01-49, and MODEL YEAR equals 1998 or newer,	SEATING POSITION should equal 11, 13, 21, 23, 31 or 33.
(V320)	BODY TYPE equals 50-52, 55, 58-66, 71-79, and SEATING POSITION does not equal 11, 13, 98,	AIR BAG DEPLOYED should equal 00.

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## **EJECTION**

**FORMAT:** 1 numeric

**SAS NAME:** Person.Ejection

**ELEMENT VALUES:**

- 0 Not Ejected
- 1 Totally Ejected
- 2 Partially Ejected
- 3 Ejected - Unknown Degree
- 7 Not Reported
- 8 Not Applicable
- 9 Unknown if Ejected

**Definition:** This element describes the ejection status and degree of ejection for this person, excluding motorcycle occupants.

**Remarks:**

Ejection refers to occupants being totally or partially thrown from the vehicle (including the bed of pickup trucks) during the course of the crash. This includes occupants of jeeps, go carts, snowmobiles, three- or four-wheel ATVs. Note: This variable excludes occupants of motorcycles.

Partial ejection refers to those instances where some part but not all of an occupant's body is, at some time during the crash sequence, outside the occupant compartment.

**0 (Not Ejected)** is used if the case materials specifically state for a given occupant. Use this attribute for occupants of a hit-and-run vehicle, unless the case materials specifically indicate that an ejection occurred.

If the case materials do not show the ejection status of uninjured drivers or passengers and there is no other information about ejection, e.g., in the narrative/diagram, then use **7 (Not Reported)**.

**1 (Totally Ejected)** is used when the occupant's body is entirely outside the vehicle but may be in contact with the vehicle. This includes occupants who are not initially in the seating compartment of the vehicle (e.g., pickup beds, boot of a convertible and persons riding on open tailgates).

**2 (Partially Ejected)** refers to those instances where some part but not all of an occupant's body is, at some time during the crash sequence, outside the occupant compartment. This does not apply to occupants who are not initially in the seating compartment of the vehicle

(e.g., pickup beds, boot of a convertible and persons riding on open tailgates), since any ejection for them is coded as **1 (Totally Ejected)**.

**3 (Ejected - Unknown Degree)** is used when the case materials indicate that an occupant is ejected but fails to discriminate between total and partial ejection.

### **7 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **7 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**8 (Not Applicable)** is used for persons who are riding on the exterior of a vehicle or for motorcycle occupants. Exterior of the vehicle includes running boards, roof, fenders and bumpers, but not the bed of pickup trucks, open tail gate or boot of a convertible.

Enter **9 (Unknown if Ejected)** when the case materials specifically indicate unknown.

### **Consistency Checks:**

<b>IF</b>	<b>THEN</b>
(3S0P) SEATING POSITION equals 55,	EJECTION must equal 8.
(4S0P) BODY TYPE equals 80-82, 83, 88, 89,	EJECTION must equal 8.
(6S0P) EJECTION equals 1,	EXTRICATION must not equal 1, 9.
(BA0P) EJECTION equals 0, 8,	EJECTION PATH must equal 0.
(BB0P) EJECTION equals 1-3, 9,	EJECTION PATH must equal 1-9, or blanks.
(BC0P) EJECTION PATH equals 1-9,	EJECTION must equal 1-3, 7 or 9.
(P01F) PERSON TYPE equals 01-03, 09, and RESTRAINT SYSTEM/HELMET USE equals 01-04, 08, 10-12, and BODY TYPE does not equal 80-89,	EJECTION should equal 0 or 7.
(P050) EJECTION equals 1,	RESTRAINT SYSTEM/HELMET USE should not equal 01-04, 08, 10-12.

<b>IF</b>	<b>THEN</b>
(P094) EJECTION equals 8,	SEATING POSITION must equal 55, or BODY TYPE must equal 80-83, 88, 89.
(P310) EJECTION equals 1-3, and BODY TYPE does not equal 90, 91, 97,	RESTRAINT SYSTEM/HELMET USE must not equal 05, 16, 17, 19, 29.

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## **EJECTION PATH**

### **(FARS Only)**

**FORMAT:** 1 numeric

**SAS Name:** Person.EJ\_PATH

**ELEMENT VALUES:**

- 0 Not Ejected/Not Applicable
- 1 Through Side Door Opening
- 2 Through Side Window
- 3 Through Windshield
- 4 Through Back Window
- 5 Through Back Door/Tailgate Opening
- 6 Through Roof Opening (sun-roof, convertible top down)
- 7 Through Roof (convertible top up)
- 8 Other Path (e.g., back of pick-up truck)
- 9 Unknown/Unknown Path

**Definition:** This element identifies the path by which this person was ejected from the vehicle.

**Remarks:**

If no information is provided in the crash reports, assume that EJECTION is not applicable. Use the following table as a guideline:

<b>Ejection Path Guidelines</b>	
<b>Path</b>	<b>Guideline</b>
1. Through side door opening	all side doors
2. Through side window	all side windows, bus side windows
3. Through windshield	front windshield only
4. Through back window	standard rear window, back window of bronco, van
5. Through back door/tailgate opening	station wagon tailgate, back door of truck, back door of bronco, van
6. Through roof opening	(sun-roof, convertible top down) t-top, targa top
7. Through roof	(convertible top up)
8. Other path	(back of pick-up truck) torn-off roof, car cut in half
9. Unknown/Unknown Path	driver's side, unspecified; passenger's side unspecified.

**Consistency Checks:**

<b>IF</b>	<b>THEN</b>
(BA0P) EJECTION equals 0, 8,	EJECTION PATH must equal 0.
(BB0P) EJECTION equals 1-3, 9,	EJECTION PATH must equal 1-9, or blanks.
(BC0P) EJECTION PATH equals 1-9,	EJECTION must equal 1-3, 7 or 9.
(BE0P) BODY TYPE equals 80-83, 88, 89,	EJECTION PATH must equal 0.
(BF0F) PERSON TYPE equals 04-08, 10, 19,	EJECTION PATH must equal 0.

## **EXTRICATION** **(FARS Only)**

**Format:** 1 numeric

**SAS Name:** Person.EXTRICAT

### **ELEMENT VALUES:**

- 10 Not Extricated or Not Applicable
- 1 Extricated
- 9 Unknown

**Definition:** This element identifies if equipment or other force was used to remove this person from the vehicle.

### **Remarks:**

Extrication refers to the use of equipment or other force to remove persons from the vehicles; i.e., more than just lifting or carrying person out of wreckage.

**0 (Not Extricated or Not Applicable)** is used when no information is provided in the crash report regarding extrication for this occupant. (i.e., assume that EXTRICATION is not applicable.) This field is not applicable to motorcycle and ATV/ATC riders.

**1 (Extricated)** is used when the police officer uses the word “extricated” to indicate occupant removal. Use of the term “extricated” is sufficient information to use 1 (Extricated) even if no mention of equipment is made. The only exception to this is if the analyst knows the officer used the term “extrication” not as intended for the purpose of this element. If the officer uses the term “pinned” or “wedged” or something similar, then the officer must indicate that equipment was used to remove the occupant in order to attribute **1 (Extricated)**.

**9 (Unknown)** is to be used when the officer states that the occupant is “pinned” or “wedged,” etc., and suggests that the occupant may have been removed with force, but does not make it clear whether equipment was used or not.

### **Consistency Checks:**

IF	THEN
(5S0P) BODY TYPE equals 80-83, 88, 89 or 90,	EXTRICATION must equal 0.
(6S0P) EJECTION equals 1,	EXTRICATION must not equal 1, 9.

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## **POLICE REPORTED ALCOHOL INVOLVEMENT**

**FORMAT:** 1 numeric

**SAS NAME:** Person.DRINKING

**ELEMENT VALUES:**

- 0 No (Alcohol Not Involved)
- 1 Yes (Alcohol Involved)
- 8 Not Reported
- 9 Unknown (Police Reported)

**Definition:** This data element reflects only the judgment of law enforcement as to whether alcohol was involved or not for this person.

**Remarks:**

The phrase “alcohol involved” means that alcohol is present in the person or presumed to be present by the police. Consequently, this data element may not agree with the alcohol test results for this person. Involvement is not an indication that alcohol was in any way a cause of the crash.

If the case materials indicate that open or unopened alcoholic beverages were found in the vehicle, then this information does not by itself constitute involvement unless the police indicate that this was the basis for a determination of involvement. If the case materials indicate that a preliminary breath test (PBT) was given and the officer’s judgment contradicts the preliminary test, the officer’s judgment will be the determining factor.

**0 (No [Alcohol Not Involved]) applies if the judgment of law enforcement is that alcohol is not present.**

In some circumstances it is possible for the police to give sufficient information in the report fields (such as contributing circumstances, driver/pedestrian condition, alcohol presence or use, alcohol test, etc.) or narrative to indicate that they believe alcohol is not involved without specifically mentioning “no” alcohol. In such cases, use **0 (No [Alcohol Not Involved])**. However, if there is any question that the officer’s position on alcohol involvement is “no alcohol” because of lack of information, then use **8 (Not Reported)**.

**1 (Yes [Alcohol Involved])** applies only if the judgment of the law enforcement is that alcohol was present. For example, the police indicate alcohol involvement via:

- a specific data element on the police report form such as Driver Condition,
- the police charge the driver with an alcohol-related offense,

- the police mention in the narrative section of the report that the person had been drinking,
- the police report has a positive BAC test result (BAC>.00).

Some PARs have a block labeled “Alcohol/Drugs.” If use is indicated, and it cannot be determined which was used (e.g., narrative, arrest/charged section, etc.), then assume alcohol is present. If the police report indicates that a driver was charged with DWI/DUI (driving while intoxicated, driving while impaired or driving under the influence), and no clarification is offered to indicate if the DWI/DUI was alcohol related or other drug related (e.g., a specific data element; mentioned in the narrative section; BAC results), then assume alcohol presence.

**8 (Not Reported)** applies when law enforcement makes no mention of alcohol involvement in either narrative or data fields. For example, there is a specific location on the police report for assessment of alcohol but the investigating officer fails to make either a positive or negative assessment by leaving the field blank. Also use **8 (Not Reported)** if no block exists on the PAR for reporting alcohol presence and no other information is available.

There are instances when the police do not indicate in the PAR whether alcohol was involved or not, but they do mention that a test was given or ordered. For example, the police may only say that an evidential test was ordered for a driver without indicating that they suspected alcohol or providing a result. The use of passive alcohol sensors (PAS) may also be mentioned as used by the police, without mention of the result. Use **8 (Not Reported)** for these instances.

**9 (Unknown [Police Reported])** applies when law enforcement indicates in either narrative or data fields that alcohol involvement is “unknown” for this person. In general, crash reports have blocks to indicate either positive or negative alcohol involvement. However if a crash report has a provision for the investigating officer to respond “unknown involvement,” then enter this attribute. Also enter this attribute for hit-and-run drivers or passengers unless clear evidence to the contrary exists.

### **FARS SPECIAL INSTRUCTION:**

Important Guidelines:

- Do not change the coding of this element because a positive alcohol test is obtained from the coroner, medical examiner or state toxicology lab. A positive or negative BAC test submitted from the toxicology lab or coroner directly to the FARS analyst is not evidence of the officer’s judgment.
- The police accident report, including any supplemental reports or direct contact with the police are the only valid sources.

When Police-Reported Alcohol Involvement is **8 (Not Reported)** or **9 (Unknown [Police Reported])**, Method of Alcohol by Police Determination attributes “1-8” are allowed. However, this should only happen when the method is stated by the police, but the involvement is not mentioned at all or stated as unknown.

**Consistency Checks:**

IF	THEN
(4X4F) any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 09,	POLICE REPORTED ALCOHOL INVOLVEMENT (P16), or POLICE REPORTED DRUG INVOLVEMENT (P19) should equal 1 for this person.
(D090) VIOLATIONS CHARGED equals 11-19, and PERSON TYPE equals 01, 03,	POLICE REPORTED ALCOHOL INVOLVEMENT should equal 1, or POLICE REPORTED DRUG INVOLVEMENT should equal 1.
(P072) PERSON TYPE equals 02, 03, and INJURY SEVERITY equals 0, and ALCOHOL TEST RESULT equals 96,	POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 8.
(P110) METHOD OF ALCOHOL DETERMINATION BY POLICE equals 1-5, 8,	POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 1.
(P200) POLICE REPORTED ALCOHOL INVOLVEMENT equals 8, 9,	METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 9.
(P300) POLICE REPORTED ALCOHOL INVOLVEMENT equals 1, and INJURY SEVERITY equals 4,	ALCOHOL TEST STATUS should not equal 0, 1.

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## **METHOD OF ALCOHOL DETERMINATION BY POLICE** **(FARS Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Person.ALC\_DET

**ELEMENT VALUES:**

- 1 Evidential Test (breath, blood, urine)
- 2 Preliminary Breath Test (PBT)
- 3 Behavioral
- 4 Passive Alcohol Sensor (PAS)
- 5 Observed
- 8 Other (e.g., Saliva test)
- 9 Not Reported

**Definition:** This element describes the method by which the police made the determination as to whether alcohol was involved or not for this person.

**Remarks:**

This variable is coded for each person involved in the crash. The Police Accident Report (PAR) and supplements are the source of information.

The purpose of this variable is to record the method by which the police made the determination as to whether alcohol was involved or not.

It is used primarily when the Police-Reported Alcohol Involvement variable is coded as **0 (No [Alcohol Not Involved])** or **1 (Yes [Alcohol Involved])**.

Whenever Police-Reported Alcohol Involvement is **0 (No [Alcohol Not Involved])**, try to find out how the police knew this. When Police-Reported Alcohol Involvement is **1 (Yes [Alcohol Involved])**, try to determine how the police knew this.

If Police-Reported Alcohol Involvement is **8 (Not Reported)** or **9 (Unknown [Police Reported])**, then Method of Alcohol Determination by Police is **8 (Not Reported)**. If more than one method is used by the police to determine alcohol involvement choose the method the police refer to when they record their assessment. If more than one method is used and they do not state which method was the basis for their alcohol determination, code the highest-ranking method used from the hierarchy (the highest ranking is "1"; the lowest is "5").

**1 (Evidential Test [breath, blood, urine])** is used if Police-Reported Alcohol Involvement is **0 (No [Alcohol Not Involved])** or **1 (Yes [Alcohol Involved])** and the police indicate that they

ordered an evidential test and their determination of alcohol involvement was based on the results of that test.

An evidential test can be a breath test on a state-approved breath test device, a blood test, or a urine test. No other tests are considered evidential.

The key in coding evidential test as the basis for the police alcohol assessment is the ordering of the test by the police. A routine test performed by a coroner or medical examiner that was not ordered by the police is not considered as evidential for the purposes of the variable.

**2 (Preliminary Breath Test [PBT])** is used if Police-Reported Alcohol Involvement is **0 (No [Alcohol Not Involved])** or **1 (Yes [Alcohol Involved])** and the police indicate that alcohol involvement was based upon the results of a preliminary breath test, or PBT. Preliminary breath testing devices are not yet considered evidential tests, but merely as tools for the police to help them determine whether alcohol is present or not. Many PBTs only indicate whether alcohol is present in the breath by pass (green) or fail (red) lights. Other PBTs indicate the approximate BAC in numbers. Some PBTs are of evidential quality in some States. But if the device was used only as a preliminary test and not the evidential test, then this value should be coded.

The key to coding this is the definite indication by the police that a PBT was used and was the basis (or the clinching evidence) that a driver had been drinking or not.

**3 (Behavioral)** is used if Police-Reported Alcohol Involvement is **0 (No [Alcohol Not Involved])** or **1 (Yes [Alcohol Involved])** and the police indicate that the basis for that alcohol assessment was the behavior by the driver during a field sobriety test.

Examples of field sobriety tests include the gaze nystagmus test, walking in a straight line, one leg stand, etc.

**Do not confuse 3 (Behavioral) with 5 (Observed).**

**4 (Passive Alcohol Sensor [PAS])** is used if Police-Reported Alcohol Involvement is **0 (No [Alcohol Not Involved])** or **1 (Yes [Alcohol Involved])** and the police indicate that alcohol involvement was based upon the results of a passive alcohol sensor, or “sniffer.”

The PAS devices available and in use by police are devices that look like flashlights and when held within 6 inches of the driver's mouth will detect alcohol in the breath while the driver is talking. The PAS is not considered an evidential test nor a PBT. It is not really a test, but a detector or an extension of the police officer's senses. The PAS devices are usually PASS/FAIL indicators with a red light indicating alcohol on the breath.

The key to coding this attribute is the indication by the police that a PAS was used and was the basis for coding **0 (No)** or **1 (Yes)** for Police-Reported Alcohol Involvement.

**5 (Observed)** is used if Police-Reported Alcohol Involvement is **0 (No [Alcohol Not Involved])** or **1 (Yes [Alcohol Involved])** and the police indicate that the basis for their alcohol

assessment was some observation of the driver. Do Not Confuse 5 (Observed) with 3 (Behavioral).

Examples of observations would be:

- smelling alcohol on the driver's breath
- staggering, slurring of speech
- the driver admitting he had been drinking
- other observations described by the police that would not be considered field sobriety tests

Be careful not to simply assume that this is the appropriate code when some other method may have been used (e.g., breath test, PBT, PAS).

**8 (Other [e.g., Saliva test])** is used if Police-Reported Alcohol Involvement is **0 (No [Alcohol Not Involved])** or **1 (Yes [Alcohol Involved])** and the police indicate that the basis for alcohol determination was something other than the codes "1, 2, 3, 4 and 5" described above.

Examples of Other methods include:

1. results of a saliva test
2. results of other tissue tests

The key to coding this data element is the description by the police of some other method of alcohol determination that does not fall into codes "1-5."

**See the paragraph below on Witness Statements.**

**9 (Not Reported)** is coded if Police-Reported Alcohol Involvement is **8 (Not Reported)** or **9 (Unknown [Police Reported])**. It is also coded if Police-Reported Alcohol Involvement is **0 (No [Alcohol Not Involved])** or **1 (Yes [Alcohol Involved])** and there is no indication in the police report or any documents as to how the police made the alcohol assessment. See the paragraph below on Witness Statements.

#### **Witness Statements:**

Witness Statements may or may not be used by the police to make a determination of alcohol involvement. If the police did use witness statements alone to make a determination of alcohol involvement, use **8 (Other)**.

If the police mention, but did not use witness statements and there is no other indication of how a determination was made, use **9 (Not Reported)**.

There are instances when the police do not indicate in the PAR whether alcohol was involved or not, but they do mention that a test was given or ordered.

**FOR EXAMPLE:** The police may only say that an evidential test was ordered for a driver without indicating that they suspected alcohol or what the result was. The use of passive alcohol sensors (PAS) may also be mentioned as used by the police, without mention of the result.

**Codes 1-8** may be used for Method Of Alcohol Determination by Police when Police-Reported Alcohol Involvement is coded as **8 (Not Reported)** or **9 (Unknown [Police Reported])**, if this fits the case.

This should only happen when the method is stated by the police, but the involvement is not mentioned at all or stated as unknown.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(P110)	METHOD OF ALCOHOL DETERMINATION BY POLICE equals 1-5, 8,	POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 1.
(P200)	POLICE REPORTED ALCOHOL INVOLVEMENT equals 8, 9,	METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 9.
(U681)	UNLIKELY: METHOD OF ALCOHOL DETERMINATION BY POLICE equals 8.	

## **ALCOHOL TEST**

**FORMAT:** 3 sets, 1 set, 1 numeric, 2 sets, 2 numeric

**SAS NAME:** Person.ALC\_STATUS, Person.ATST\_TYP, Person.ALC\_RES

**ELEMENT VALUES:**

**GES    FARS**

		Subfield 1 – Test Status
0	0	Test Not Given
1	1	Test Refused
2	2	Test Given
8	8	Not Reported
9	9	Unknown if Tested
		Subfield 2 – Test Type
00	00	Test Not Given
01	01	Blood
02	02	Breathalyzer (BAC)
10	10	Preliminary Breath Test (PBT)
03	03	Urine
XX	04	Vitreous
XX	05	Blood Plasma/Serum
XX	06	Blood Clot
XX	07	Liver
08	08	Other Test Type
98	98	Unknown Test Type
95	95	Not Reported
99	99	Unknown if Tested
		Subfield 3 – Test Result
00-93	00-93	Actual Value
94	94	.94 or Greater
96	96	Test Not Given
97	97	AC Test Performed, Results Unknown
98	98	Positive Reading with No Actual Value
95	95	Not Reported
99	99	Unknown if Tested

**Definition for Alcohol Test Status:** This element identifies if an alcohol (***ethanol***) test was given to this person.

**Definition for Alcohol Test Type:** This element identifies the type of the alcohol (***ethanol***) test that was used for this person.

**Definition for Alcohol Test Result:** This element identifies the alcohol (**ethanol**) test result for this person.

**Remarks:**

When completing this element, you must have the data to fill ALL three subfields. Otherwise, leave all three subfields blank until all the data has been acquired to complete all three subfields.

For alcohol tests that were initiated but not completed because of a contaminated or insufficient sample, code:

- Test Status as **2 (Test Given)**
- the applicable Test Type,
- and code Test Results as 97(Test Performed, Results Unknown).

**Subfield 1** – Test Status indicates whether or not a test was performed on this person to detect the presence of alcohol (**ethanol**).

**10 (Test Not Given)** is used when the case materials indicate an alcohol test was not given.

Most states' practice is that "live" non-drivers are not routinely tested for alcohol. Consequently, for live non-drivers MDE will auto-fill Test Status, Test Type, and Test Result as Test Not Given. If you happen to obtain an alcohol test result for a "live" non-driver, enter Test Status as Test Given and the appropriate test type and results.

**1 (Test Refused)** is used when the case materials indicate an alcohol test was refused.

**2 (Test Given)** is used when the case materials indicate an alcohol test was given.

**8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**9 (Unknown if Tested)** is used when the case materials specifically indicated "Unknown if Tested."

## **Subfield 2.**

If more than one type of test is performed on the same person, a Blood Test is preferred over other tests. The exception is if you have information that casts clear doubt on the validity or reliability of the Blood Test when you have results from a test of another type. For example, the blood test was spoiled or contaminated. In such a case, record the Test Type for the test with the valid result. Other situations where this may occur include information that:

- the test was performed on a live victim unreasonably long after the crash; or
- the lab, coroner, or medical examiner expresses doubt in their result from a blood test.

**\*Note:** The attributes Vitreous, Blood Plasma/Serum, Blood Clot, and Liver are not included in GES as the source document (e.g. Coroner Report, Toxicology Screening) where these Test Types would be used are not available in a GES sampled PAR.

**CODING HIERARCHY:** When more than one alcohol test exists, use the following hierarchy:  
**01 (Blood), 05 (Blood Plasma/Serum), 02 (Breathalyzer [BAC]), 04 (Vitreous), 03 (Urine), 06 (Blood Clot), 07(Liver), 10 (Preliminary Breath Test [PBT]), 08 (Other Test Type).**  
(Attributes 04-07 do not apply for GES coding purposes.)

**01 (Blood)** is used when the case materials indicate this was the type of test used to obtain a BAC.

Note that there are test types for **01 (Blood)**, **05 (Blood Plasma/Serum)** and **06 (Blood Clot)**. If the Coroner, Medical Examiner, or State Lab reports that the test was a “blood” test (whole blood), this most likely does not refer to Blood Plasma or Blood Clot, but you should try to verify this. If the test was performed on blood, or if you know the results are already converted to a BLOOD ALCOHOL CONCENTRATION (BAC), then code TEST TYPE as **01 (Blood)**.

**Breath** is used when the case materials indicate this was the type of test used to obtain a BAC.

**Breath** is used if you have a result from an evidential breath test (a breath test performed on a State-approved breath test device). Usually, results from a Preliminary Breath Test (PBT) device are not considered evidential. Some PBTs are of evidential quality in some States; but if the device was used only as a preliminary test and not an evidential test, then do not use code “02.”

**03 (Urine)** is used when the case materials indicate this was the type of test used to obtain a BAC.

**08 (Other Test Type)** is used when the case materials indicate a type of test used to obtain a BAC was recorded as “Other” or is indicated to be of a type other than the available attributes. ***This attribute would not apply to behavioral tests (field sobriety) or observations.***

**10 (Preliminary Breath Test [PBT])** is used when the case materials indicate this was the type of test used to obtain a BAC and no other test is available. Update Test Type and

corresponding Result if a PBT is followed by an evidential test, other than a PBT. A breath, blood or urine test will take precedence over a PBT result unless you have information that casts clear doubt on the validity or reliability of the Evidential Test AND you have a valid PBT result to record.

- Example 1: You only receive a PBT with an actual value
  - Code Test Type “10 – PBT” and Test Result “the actual value received”
- Example 2 –: You only receive a PBT with a “negative” result returned
  - Code Test Type “10 – PBT” and Test Result “00”
- Example 3: You only receive a PBT with “positive” result, but no actual value
  - Code Test Type “10 – PBT” and Test Result code “98 – Positive Reading With No Actual Value”
- Example 4: You receive a PBT with an actual value of .10% and a blood test (whole blood) from the lab of .08%
  - Code Test Type “01 – Blood” and Test Result .08
- Example 5: You receive a PBT with an actual value of .10% and a breathalyzer test both from the police of .08%
  - Code Test Type “02 – Breathalyzer (BAC)” and Test Result .08
- Example 6: You receive a PBT with an actual value of .10% from the police and a blood test (whole blood) from the state lab indicating a “contaminated” sample.
  - Code Test Type “10 – PBT” and Test Result .01

**98 (Unknown Test Type)** is used when the case materials indicate a test was given ***and the type of test is reported as unknown or pending and the type is unobtainable.***

#### **95 (Not Reported)**

If a state’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported**”.

Code **95 (Not Reported)** in these two situations:

1. No field or coding block exists on the state’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state’s crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown if Tested)** is used when the case materials specifically indicated “Unknown if Tested.”

### **Subfield 3**

A TEST RESULT of .01 is a low probability and will raise an error flag. Any BAC test result reported in 3 decimal places should be truncated, not rounded. For example, a reported BAC of .099 becomes .09. The reason for truncating is that the accuracy of most testing devices is only reliable to two decimal places, so the third decimal place is meaningless.

**97 (AC Test Performed, Results Unknown)** refers to alcohol content tests that were performed but the results are reported as unknown or pending and are unobtainable (includes a “Contaminated Sample” or “Insufficient Sample”). AC Test Performed, Results Unknown can be used for any Test Type.

#### **FARS SPECIAL INSTRUCTION:**

As a general coding guideline, **do not** prematurely use Test Result “AC Test Performed, Results Unknown.” It is recommended that you leave the information blank for drivers and non-motorists until the test results are received from the state lab, coroner or police. You need to be reasonably certain that you will never receive the test results to use attribute “97” at the time of the initial coding and case entry.

### **95 (Not Reported)**

If a state’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported**”.

Code **95 (Not Reported)** in these two situations:

1. No field or coding block exists on the state’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state’s crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

#### **FARS SPECIAL INSTRUCTION:**

Prior to 2009, the Alcohol Test Result code “95” represented an alcohol test result that was not provided because the test was refused. This situation was identified using the element value “95 – Test Refused”. This element value was dropped in 2009 and the code “95” was reintroduced in 2010 as the element value “95 – Not Reported”.

**99 (Unknown if Tested)** is used when the case materials specifically indicated “Unknown if Tested.”

**98 (Positive Reading with No Actual Value)** can be used for any Test Type code where the result is indicated to be positive without a numeric value to record. This should only be used when a final test result is returned as “positive” with no actual result to record. This can occur when a screening test is used and it is the only test result available. Some PBTs only indicate whether alcohol is present in the breath by positive (green) or negative (red) lights. Other PBTs indicate the approximate BAC in numbers. **98 (Positive Reading with No Actual Value)** should be used when a PBT result only indicates “positive” for alcohol, with no actual BAC value. A negative PBT result should be interpreted as .00.

Before recording this value make sure that this is the final test result and no actual value was available from a follow-up confirmatory test.

#### **FARS SPECIAL INSTRUCTION:**

Prior to 2006, this attribute read “**PBT Positive Reading with No Actual Value**” and was used strictly for recording test results for Preliminary Breath Test devices.

**State Law versus Practice:** You may be aware that your State laws require testing of certain classes of crash victims. However, you may also know that the practice in your State is that the law is not observed. In such cases, you are not bound only by what the law says. You may consider State practices in your coding decisions.

Example 1: Your state law may require all fatalities to be tested for BAC, but you know that this does not happen in your State and you are unable to locate alcohol test information for this person:

- In such a case, you cannot rely on the law for your coding decisions. Therefore, you should use **99 (Unknown If Tested)** rather than **97 (AC Test Performed, Results Unknown)**, or **96 (Test Not Given)**. (Test Status equals **9 (Unknown if Tested)** and Test Type equals **99 (Unknown if Tested)**).

Example 2: Most states’ practice is that “live” non-drivers are not routinely tested for alcohol. Consequently, for live non-drivers when there is no mention of a test ordered by the police in the Police Accident Report (PAR):

- Code Test Status as **0 (Test Not Given)** and MDE will auto-fill Test Type as **00 (Test Not Given)** and Test Result as **96 (Test Not Given)**. However, if you happen to obtain an alcohol test result later, you may enter the appropriate test type and results.

#### **Computed Estimates of BACs:**

An expert may calculate an estimate of what the BAC would have been at the time of the crash (i.e., toxicologist uses the lapse time from crash and the victim’s weight to calculate the BAC). You may accept these results if the following are all true:

- Results were reported by someone with the authority in your state to make this determination; and
- the result is considered official in your state; and

- you can support the result with official documentation or it is reported on the PAR (may vary from state-to-state).

**Consistency Checks:**

IF	THEN
(5T7P) ALCOHOL TEST STATUS equals 0, 1,	ALCOHOL TEST TYPE must equal 00, and ALCOHOL TEST RESULT must equal 96.
(5T8P) ALCOHOL TEST STATUS equals 9,	ALCOHOL TEST TYPE must equal 99, and ALCOHOL TEST RESULT must equal 99.
(5T9P) ALCOHOL TEST STATUS equals 2,	ALCOHOL TEST TYPE must equal 01-10, <b>95</b> , 98, and ALCOHOL TEST RESULT must equal 00-94, 97, 98.
(5TCP) ALCOHOL TEST STATUS equals 8,	ALCOHOL TEST TYPE must equal 95, and ALCOHOL TEST RESULT must equal 95.
(P071) PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	ALCOHOL TEST STATUS should not equal 9, ALCOHOL TEST TYPE should not equal 99, and ALCOHOL TEST RESULT should not equal 99.
(P074) PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	ALCOHOL TEST STATUS must not equal 8, ALCOHOL TEST TYPE must not equal 95, and ALCOHOL TEST RESULT must not equal 95.
(P080)	ALCOHOL TEST RESULTS should not equal 34-94.
(P300) POLICE REPORTED ALCOHOL INVOLVEMENT equals 1, and INJURY SEVERITY equals 4,	ALCOHOL TEST STATUS should not equal 0, 1.

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## **POLICE REPORTED DRUG INVOLVEMENT**

**FORMAT:** 1 numeric

**SAS NAME:** Person.DRUGS

**ELEMENT VALUES:**

- 0 No (Drugs Not Involved)
- 1 Yes (Drugs Involved)
- 8 Not Reported
- 9 Unknown (Police Reported)

**Definition:** This data element reflects only the judgment of law enforcement as to whether drugs were involved or not for this person.

**Remarks:**

This data element reflects only the judgment of law enforcement as to whether drugs were involved or not for this person.

The phrase “drug involvement” means that drugs are present in the person or presumed to be present by the police. This includes prescription and over-the-counter medications, as well as illicit substances (e.g., marijuana, cocaine, heroin, etc.). It is not an indication that the drug usage was in any way a cause of the crash.

If case materials indicate that drugs were found in the vehicle, then this information does not by itself constitute involvement unless the police indicate that this was the basis for a determination of involvement.

Some PARs have a block labeled “Alcohol/Drugs.” If use is indicated, and it cannot be determined which was used (e.g., narrative, arrest/charged section, etc.), then assume alcohol, not drugs. If the police report indicates that a driver was charged with DWI (driving while intoxicated or driving while impaired) and no clarification is offered to indicate if the DWI was alcohol related or drug related (e.g., a specific data element, mentioned in the narrative section, BAC results), then interpret as alcohol presence .

**0 (No [Drugs Not Involved])** applies if the judgment of law enforcement is that drugs are not present.

In some circumstances it is possible for the police to give sufficient information in the report fields (such as contributing circumstances, driver/pedestrian condition, substance use, drug test, etc.) or narrative to indicate that they believe drugs are not involved without specifically mentioning no drugs. In such cases, you may use **0 (No [Drugs Not Involved])**. However, if

there is any question that the officer's position on drug involvement is No because of a lack of information, then it is best to use **8 (Not Reported)**.

**1 (Yes [Drugs Involved])** applies only if the police assessment is that drugs were present. For example the police indicate drug involvement via:

- a specific data element on the police report form such as Driver Condition,
- the police charge the driver with an drug related offense,
- the police mention in the narrative section of the report that the person had been under the influence of a drug
- the police report has a positive test result reported for drugs

**8 (Not Reported)** applies when law enforcement makes no mention of drug involvement in either narrative or data fields. For example, there is a specific location on the police report for assessment of drugs but the investigating officer fails to make either a positive or negative assessment by leaving the field blank. Also use **8 (Not Reported)** if no block exists on the PAR for reporting drug presence and no other information is available.

There are instances when law enforcement do not indicate in the PAR whether drugs were involved or not, but they do mention that a test was given or ordered. For example, the police may only say that an evidential test was ordered for a driver without indicating that they suspected drugs or providing a result. Use **8 (Not Reported)** for these instances.

**9 (Unknown [Police Reported])** applies when law enforcement indicate in either narrative or data fields that drug involvement is "unknown" for this person. In general, police reports have blocks to indicate either positive or negative drug involvement. However, if a crash report has a provision for the investigating officer to respond "unknown involvement," then enter this attribute. Also enter this attribute for hit-and-run drivers unless clear evidence to the contrary exists.

### **FARS SPECIAL INSTRUCTION:**

Important Guidelines:

- Do not change the coding of this element because a positive drug test is obtained from the coroner, medical examiner or state toxicology lab. A positive or negative test result submitted from the toxicology lab or coroner directly to the FARS analyst is not evidence of the officer's judgment.
- The crash report, including any supplemental reports or direct contact with law enforcement, are the only valid sources.

When Police Reported Drug Involvement is **8 (Not Reported)** or **9 (Unknown [Police Reported])**, all Method of Drug Determination attributes are allowed. However, this should only happen when the method is stated by the police, but the involvement is not mentioned at all or stated as unknown.

**Consistency Checks:**

IF	THEN
(4X4F) any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 09,	POLICE REPORTED ALCOHOL INVOLVEMENT (P16), or POLICE REPORTED DRUG INVOLVEMENT (P19) should equal 1 for this person.
(BQ0P) METHOD OF DRUG DETERMINATION BY POLICE equals 8,	POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8, 9.
(BR0P) METHOD OF DRUG DETERMINATION BY POLICE equals 1-7,	POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8.
(D090) VIOLATIONS CHARGED equals 11-19, and PERSON TYPE equals 01, 03,	POLICE REPORTED ALCOHOL INVOLVEMENT should equal 1, or POLICE REPORTED DRUG INVOLVEMENT should equal 1.
(P140) POLICE REPORTED DRUG INVOLVEMENT equals 8, 9,	METHOD OF DRUG DETERMINATION BY POLICE should equal 8.
(P150) POLICE REPORTED DRUG INVOLVEMENT equals 1,	DRUG TEST STATUS should not equal 0.
(P160) POLICE REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2,	not all DRUG TEST RESULTS should equal 001.
(P170) METHOD OF DRUG DETERMINATION BY POLICE equals 1-7,	POLICE REPORTED DRUG INVOLVEMENT should equal 0, 1.

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## **METHOD OF DRUG DETERMINATION BY POLICE** **(FARS Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Person.DRUG\_DET

**ELEMENT VALUES:**

- 1 Evidential Test (Blood, Urine)
- 2 Drug Recognition Technician (DRT) determination
- 3 Behavioral
- 7 Other
- 8 Not Reported

**Definition:** This element identifies the method by which the police made the determination as to whether drugs were involved or not for this person.

**Remarks:**

This element is coded for each person involved in the crash. The Police Accident Report (PAR) and supplements are the source of information.

The purpose of this element is to record the method by which the police made the determination as to whether drugs were involved or not.

It is used primarily when the Police Reported Drug Involvement element is coded as **0 (No [Drugs Not Involved])** or **1 (Yes [Drugs Involved])**.

Whenever Police Reported Drug Involvement is **0 (No [Drugs Not Involved])**, try to find out how the police knew this. When Police Reported Drug Involvement is **1 (Yes [Drugs Involved])**, try to determine how the police knew this.

If Police Reported Drug Involvement is **8 (Not Reported)** or **9 (Unknown [Police Reported])**, then Method of Drug Determination by Police is **8 (Not Reported)**. If more than one method is used by the police to determine drug involvement choose the method the police refer to when they record their assessment. If more than one method is used and they do not state which method was the basis for their determination, code the highest-ranking method used from the hierarchy (the highest ranking is "1"; the lowest is "7").

**1 (Evidential Test [Blood, Urine])** is used if Police Reported Drug Involvement is **0 (No [Drugs Not Involved])** or **1 (Yes [Drugs Involved])** and the police indicate that they ordered an evidential test and their determination of drug involvement was based on the results of that test.

The key in coding evidential test as the basis for the police drug assessment is the ordering of the test by the police. A routine test performed by a coroner or medical examiner that was not ordered by the police is not considered as evidential for the purposes of the element.

**2 (Drug Recognition Technician [DRT] determination)** is used if Police Reported Drug Involvement is **0 (No [Drugs Not Involved])** or **1 (Yes [Drugs Involved])** and the police indicate that drug involvement was based upon the results of expert opinion of a person trained to evaluate a person for drug use.

The key to coding this is the definite indication by the police that a DRT was used and was the basis (or the clinching evidence) that a driver had been using drugs or not.

**3 (Behavioral)** is used if Police Reported Drug Involvement is **0 (No [Drugs Not Involved])** or **1 (Yes [Drugs Involved])** and the police indicate that the basis for that drug assessment was the behavior by the driver during their contact with the person such as a field sobriety test.

**7 (Other)** is used if Police Reported Drug Involvement is **0 (No [Drugs Not Involved])** or **1 (Yes [Drugs Involved])** and the police indicate that the basis for Drug determination was something other than the codes "1, 2, or 3" described above.

Examples of 7 (Other) include:

1. Observations of drugs or drug use paraphernalia
2. Detecting the odor of marijuana
3. Admission by the person that they used drugs

**8 (Not Reported) is coded if Police-Reported Drug Involvement is 8 (Not Reported) or 9 (Unknown [Police Reported]).** It is also coded if Police-Reported Drug Involvement is **0 (No [Drugs Not Involved])** or **1 (Yes [Drugs Involved])** and there is no indication in the police report or any documents as to how the police made the drug assessment.

#### Witness Statements:

Witness Statements may or may not be used by the police to make a determination of drug involvement. If the police did use witness statements alone to make a determination of drug involvement, use **7 (Other)**.

If the police mention, but did not use witness statements and there is no other indication of how a determination was made, use **8 (Not Reported)**.

There are instances when the police do not indicate in the PAR whether drugs were involved or not, but they do mention that a test was given or ordered.

**FOR EXAMPLE:** The police may only say that an evidential test was ordered for a driver without indicating that they suspected drugs or what the result was.

Codes 1-7 may be used for Method Of Drug Determination by Police when Police Reported Drug Involvement is coded as **8 (Not Reported)** or **9 (Unknown [Police Reported])**, if this fits the case.

This should only happen when the method is stated by the police, but the Involvement is not mentioned at all or stated as unknown.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(BQ0P)	METHOD OF DRUG DETERMINATION BY POLICE equals 8,	POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8, 9.
(BR0P)	METHOD OF DRUG DETERMINATION BY POLICE equals 1-7,	POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8.
(P140)	POLICE REPORTED DRUG INVOLVEMENT equals 8, 9,	METHOD OF DRUG DETERMINATION BY POLICE should equal 8.
(P160)	POLICE REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2,	not all DRUG TEST RESULTS should equal 001.
(P170)	METHOD OF DRUG DETERMINATION BY POLICE equals 1-7,	POLICE REPORTED DRUG INVOLVEMENT should equal 0, 1.

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## **DRUG TEST**

**FORMAT:** 1 set 1 numeric; 3 sets, 1 numeric, 3 numeric

**SAS NAME:** Person.DSTATUS, Person.DRUGTST1, Person.DRUGTST2,  
Person.DRUGTST3, Person.DRUGRES1, Person.DRUGRES2, Person.DRUGRES3

**ELEMENT VALUES:**

<b>GES</b>	<b>FARS</b>	
		Subfield 1 – Test Status
0	0	Test Not Given
1	1	Test Refused
2	2	Test Given
8	8	Not Reported
9	9	Unknown if Tested
		Subfield 2 – Test Type
0	0	Test Not Given
1	1	Blood
2	2	Urine
3	3	Both: Blood and Urine Tests
7	7	Unknown Test Type
8	8	Other Test Type
6	6	Not Reported
9	9	Unknown if Tested
		Subfield 3 – Test Result**
000	000	Test Not Given
001	001	Tested, No Drugs Found/Negative
XXX	100-295	Narcotic*
XXX	300-395	Depressant*
XXX	400-495	Stimulant*
XXX	500-595	Hallucinogen*
XXX	600-695	Cannabinoid*
XXX	700-795	Phencyclidine (PCP)*
XXX	800-895	Anabolic Steroid*
XXX	900-995	Inhalant*
XXX	996	Other Drug
997	997	Tested for Drugs, Results Unknown
998	998	Tested for Drugs, Drugs Found, Type Unknown/Positive
095	095	Not Reported
999	999	Unknown If Tested

\* See Specific Drug Listings

\*\* Test Result does not include Aspirin, Nicotine or *Ethanol*.

*Alcohols reported other than ethanol would be classified under 996*

*(Other Drug). In addition, exclude drugs explicitly indicated to have been administered after the crash. See Remarks below.*

**Remarks:**

When completing this element, you must have the data to fill ALL three subfields. Otherwise, leave all three subfields blank until all the data has been acquired to complete all three subfields.

For drug tests that were initiated but not completed because of a contaminated or insufficient sample, code:

- Test Status as **2 (Test Given)**
- the applicable Test Type,
- and code Test Results as **997(Tested for Drugs, Results Unknown)**.

**Subfield 1 - Drug Test Status**

**Definition for Drug Test Status:** This element identifies if a *chemical test for the presence of drugs* was given to this person.

**0 (Test Not Given)** is used when the case materials indicate a drug test was not given. If Test Status is **0 (Test Not Given)** then Test Type and Test Result will also be **0 (Test Not Given)** and **000 (Test Not Given)**.

Most states' practice is that "live" non-drivers are not routinely tested for drugs. Consequently, for live non-drivers MDE will auto-fill Test Status, Test Type, and Test Result as Test Not Given. If you happen to obtain a drug test result for a "live" non-driver, enter Test Status as Test Given and the appropriate test type and results.

**1 (Test Refused)** is used when the case materials indicate a drug test was refused. If Test Status is **1 (Test Refused)** then Test Type and Test Result will be **0 (Test Not Given)** and **000 (Test Not Given)**.

**2 (Test Given)** is used when the case materials indicate a drug test was given.

**8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other

information is available to code the element (e.g., narrative, diagram, case materials).

**9 (Unknown if Tested)** is used when the case materials specifically indicated “Unknown if Tested.”

**Subfield 2 Drug Test Type:** You may record up to 3 separate drug test types and their corresponding result.

**Definition for Drug Test Type:** This element identifies the type of *chemical test for the presence of drugs* that was used for this person.

**1 (Blood)** is used when the case materials indicate this was the type of test used to detect the presence of drugs.

**2 (Urine)** is used when the case materials indicate this was the type of test used to detect the presence of drugs.

**3 (Both: Blood and Urine Tests)** is used when the case materials indicate this testing combination was used to detect the presence of drugs. Typically this would be found on a toxicology report.

**7 (Unknown Test Type)** is used when the case materials indicate a test was given *and the type of test is reported as unknown or pending and the type is unobtainable*.

**8 (Other Test Type)** is used when the case materials indicate a type of test used to detect the presence of drugs was recorded as “Other” or is indicated to be of a type other than the available attributes.

### **6 (Not Reported)**

If a state’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported**”.

Code **6 (Not Reported)** in these two situations:

1. No field or coding block exists on the state’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state’s crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**9 (Unknown if Tested)** is used when the case materials specifically indicated “Unknown if Tested.”

### **Subfield 3 - Drug Test Result**

**Definition for Drug Test Result:** This element identifies the result ***of a chemical test for the presence of drugs*** for this person.

**\*\*NOTE: This element excludes Nicotine, Aspirin and Ethanol. In addition, exclude drugs explicitly indicated to have been administered after the crash. Alcohols reported other than ethanol would be classified under 996 (Other Drug).**

#### **FARS SPECIAL INSTRUCTION:**

You may record up to 3 separate drug test results and their corresponding test type. Use the translation table to assign the three-digit code. If the drug is not on the list, use **996 (Other Drug)**, except for confirmed as “post crash” administered. Caffeine and mild analgesics are coded **996 (Other Drug)**. When four or more drugs are present, use the categories as a hierarchy (ex. narcotics (100-295) over depressants (300-395) over stimulants (400-495), etc.)

**1 (Test Not Given)** is used when the case materials indicate a drug test was not given. If Test Status is **0 (Test Not Given)** then Test Type and Test Result will also be **0 (Test Not Given)** and **000 (Test Not Given)**.

**2 (Tested, No Drugs Found/Negative)** is used when the case materials indicate that a test for the presence of drugs was “negative” or that no drugs were found.

**997 (Tested for Drugs, Results Unknown)** refers to drug tests that were performed but the results are reported as unknown or pending and are unobtainable. **997 (Tested for Drugs, Results Unknown)** can be used for any Test Type.

#### **FARS SPECIAL INSTRUCTION:**

**As a general coding guideline, do not prematurely use Test Result 997 (Tested for Drugs, Results Unknown).** It is recommended that you leave the information blank until the test results are received from the state lab, coroner or police. You need to be reasonably certain that you will never receive the test results to use attribute “997” at the time of the initial coding and case entry. Examples of this situation would be if the test results are returned indicating a “Contaminated Sample” or “Insufficient Sample.”

**998 (Tested for Drugs, Drugs Found, Type Unknown/Positive)** can be used for any Test Type code where the result is indicated to be positive without an actual drug identified to record.

This should only be used when a final test result is returned as “positive” with no actual result to record. This can occur when a screening test is used and it is the only test result available. Before recording this value make sure that this is the final test result and no actual value was available from a follow-up confirmatory test.

**095 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **095 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**999 (Unknown if Tested)** is used when the case materials specifically indicated "Unknown if Tested."

**Consistency Checks:**

	IF	THEN
(7M1F)	<b>PERSON TYPE equals 03, and SEATING POSITION is not equal to 11 or 13, and INJURY SEVERITY does not equal 4,</b>	<b>DRUG TEST STATUS must not equal 8.</b>
(BT1P)	DRUG TEST STATUS equals 0, 1,	all DRUG TEST TYPE must equal 0, and all DRUG TEST RESULT should equal 000 for this person.
(BT2P)	DRUG TEST STATUS equals 8,	DRUG TEST TYPE 1 must equal 6, and DRUG TEST RESULT 1 must equal 095, and remaining DRUG TEST TYPES and DRUG TEST RESULTS must be 0 filled.
(BT3P)	DRUG TEST STATUS equals 2,	at least one DRUG TEST TYPE must equal 1-8, <u>and one</u> corresponding DRUG TEST RESULT must equal 001, <b>095</b> , 100-295, 300-395, 400-495, 500-595, 600-695, 700-795, 800-895, 900-995, 996-998.
(BT6P)	DRUG TEST STATUS equals 9,	DRUG TEST TYPE 1 must equal 9, and DRUG TEST RESULT 1 must equal 999, and remaining DRUG TEST TYPES and DRUG TEST RESULTS must be 0 filled.

	<b>IF</b>	<b>THEN</b>
(BT7P)	DRUG TEST STATUS equals 2, and DRUG TEST RESULT <u>one</u> equals 001, <b>095</b> , 100-295, 300-395, 400-495, 500-595, 600-695, 700-795, 800-895, 900-995, 996, 997, 998,	DRUG TEST RESULT <u>two and three</u> must not equal 999.
(BT8P)	More than one of the <u>same</u> DRUG TEST RESULT values must not be coded for the same person except for 000, 996.	
(BT9P)	DRUG TEST RESULT 1 equals 000, 001, 997, 998, 095, or 999,	DRUG TEST RESULT 2 and DRUG TEST RESULT 3 must equal 000.
(P073)	PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	DRUG TEST STATUS should not equal 9, and any DRUG TEST TYPE should not equal 9, and any DRUG TEST RESULTS should not equal 999.
(P075)	PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	DRUG TEST STATUS must not equal 8, any DRUG TEST TYPE must not equal 6, and any DRUG TEST RESULTS must not equal 095.
(P150)	POLICE REPORTED DRUG INVOLVEMENT equals 1,	DRUG TEST STATUS should not equal 0.
(P160)	POLICE REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2,	not all DRUG TEST RESULTS should equal 001.

## EXAMPLES FOR INTERPRETING DRUG TESTS

**IF YOU HAVE:**

- A. Both Blood and Urine tests and the results are the same for both.  
Example: Blood – Fentanyl  
Urine – Fentanyl

**GUIDELINES:**

<u>Status</u>	<u>Type 1</u>	<u>Result 1</u>	<u>Type 2</u>	<u>Result 2</u>	<u>Type 3</u>	<u>Result 3</u>
2	3	151	0	000	0	000

- B. Both Blood and Urine tests and the results are different for both.  
Example: Blood – Hexobarbital  
Urine – Cocaine

<u>Status</u>	<u>Type 1</u>	<u>Result 1</u>	<u>Type 2</u>	<u>Result 2</u>	<u>Type 3</u>	<u>Result 3</u>
2	1	333	2	407	0	000

- C. Both Blood and Urine tests and the results are given but not linked to either tests.  
Example: Results – Codeine and Ibogaine

<u>Status</u>	<u>Type 1</u>	<u>Result 1</u>	<u>Type 2</u>	<u>Result 2</u>	<u>Type 3</u>	<u>Result 3</u>
2	6	128	6	509	0	000

- D. Blood or Urine tests and other test, such as vitreous.  
Example: Blood – Diazepam  
Vitreous – Cocaine

<u>Status</u>	<u>Type 1</u>	<u>Result 1</u>	<u>Type 2</u>	<u>Result 2</u>	<u>Type 3</u>	<u>Result 3</u>
2	1	321	8	407	0	000

- E. Urine test only and the results:  
Example: Urine – Benzodiazepines

<u>Status</u>	<u>Type 1</u>	<u>Result 1</u>	<u>Type 2</u>	<u>Result 2</u>	<u>Type 3</u>	<u>Result 3</u>
2	2	304	0	000	0	000

- F. Vitreous and other tests only.  
Example: Vitreous – Amphetamine and Verapamil

<u>Status</u>	<u>Type 1</u>	<u>Result 1</u>	<u>Type 2</u>	<u>Result 2</u>	<u>Type 3</u>	<u>Result 3</u>
2	8	401	8	996	0	000

- G. Not tested for drugs.

<u>Status</u>	<u>Type 1</u>	<u>Result 1</u>	<u>Type 2</u>	<u>Result 2</u>	<u>Type 3</u>	<u>Result 3</u>
0	0	000	0	000	0	000

- H. Not Reported for drugs

<u>Status</u>	<u>Type 1</u>	<u>Result 1</u>	<u>Type 2</u>	<u>Result 2</u>	<u>Type 3</u>	<u>Result 3</u>
8	6	095	0	000	0	000

- I. Unknown if tested for drugs.

<u>Status</u>	<u>Type 1</u>	<u>Result 1</u>	<u>Type 2</u>	<u>Result 2</u>	<u>Type 3</u>	<u>Result 3</u>
9	9	999	0	000	0	000

- J. Tested for Drugs, Results Unknown.

Example: Blood test – Yes  
Results – Unavailable

<u>Status</u>	<u>Type 1</u>	<u>Result 1</u>	<u>Type 2</u>	<u>Result 2</u>	<u>Type 3</u>	<u>Result 3</u>
2	1	997	0	000	0	000

- K. Tested for Drugs, Drugs Found, Type of Drug Unknown.  
Example: Urine test – Yes  
Drugs found – Yes

<u>Status</u>	<u>Type 1</u>	<u>Result 1</u>	<u>Type 2</u>	<u>Result 2</u>	<u>Type 3</u>	<u>Result 3</u>
2	2	998	0	000	0	000

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Drugs by Category Type

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103	Acetyldihydrocodeine
104	Acetylmethadol
105	Alfentanil
106	Allylprodine
107	Alpha-Methylfentanyl
108	Alphamethythiofentanyl
109	Alpha-meprodine
110	Alphamethadol
111	Alphaprodine
112	Anileridine
113	APC + Codeine
114	Aspirin + Codeine
117	Benzylmorphine
118	Beta-hydroxyfentanyl
119	Betacetylmethadol
120	Beta-meprodine
121	Betamethadol
122	Betaprodine
123	Bezitramide
124	Buprenorphine
125	Carfentanil
126	Clonitazene
127	Codeine methylbromide
128	Codeine
129	Cyprenorphine
130	Desomorphine
131	Dextromoramide
133	Diampromide
134	Diethylthiambutene
135	Difenoxin
136	Dihydrocodeine
137	Dihydromorphine
138	Dimenoxadol
139	Dimepheptanol (Racemethadol)
140	Dimethylthiambutene
141	Dioxaphetyl Butyrate
142	Diphenoxylate
143	Dipipanone
144	Diprenorphine Hydrochloride
145	Drotebanol
146	Ethylmethylthiambutene
147	Ethylmorphine
148	Etonitazene
149	Etorphine
150	Etoxeridine
151	Fentanyl
152	Fiorinal + Codeine
153	Furethidine
154	Heroin (Diacetylmorphine)
155	Hydrocodone
156	Hydromorphinol
157	Hydromorphone
158	Hydroxypethidine
159	Isomethadone
160	Ketobemidone
161	Levomoramide
162	Levophenacylmorphan
163	Levomethorphan
164	Levorphanol Tartrate
165	Meperidine (Pethidine)
166	Metazocine
167	Methadone
168	Methyldesorphine
169	Methyldihydromorphine
170	Methylfentanyl
171	Methyl-phenyl-propionoxypiperidine (MPPP )
172	Metopon
173	Moramide - intermediate
174	Morpheridine
175	Morphine methylsulfonate
176	Morphine methylbromide
177	Morphine
178	Myrophine
179	Nalorphine
180	Nicocodeine
181	Nicomorphine
182	Noracymethadol
183	Norlevorphanol
184	Normethadone
185	Normorphine
186	Norpipanone
187	Opium
188	Oxymorphone
189	Oxycodone



## Drugs by Category Type

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305	Benzylfentanyl	350	Nitrazepam
306	Bromazepam	351	Nordiazepam
307	Butabarbital (secbutabarbital)	352	Oxazepam
308	Butalbital	353	Oxazolam
309	Camazepam	354	Paraldehyde
310	Carbamate	355	Pentobarbital
311	Chloral betaine	356	Petriclormal
312	Chloral Hydrate	357	Phencyclohexylamine
313	Chlordiazepoxide	358	Phenobarbital
314	Chlorhexadol	359	Pinazepam
315	Clobazam	360	Prazepam
316	Clonazepam	361	Quazepam
317	Clorazepate Dipotassium	362	Secobarbital
318	Clotiazepam	363	Sulfondiethylmethane
319	Cloxazolam	364	Sulfonethylmethane
320	Delorazepam	365	Sulfonmethane
321	Diazepam	366	Talbutal
322	Estazolam	367	Temazepam
323	Ethchlorvynol	368	Tetrazepam
324	Ethinamate	369	Thenylfentanyl
325	Ethyl Ioflazepate	370	Thiamylal
326	Fiorinal	371	Thiopental (Pentothal)
327	Fludiazepam	372	Tiletamine/ Zolazepam (Telazol)
328	Flunitrazepam	373	Traizolam
330	Glutethimide	374	Tybamate
331	Halazepam	376	Carisoprodol
332	Haloxazolam	377	Gamma-Hydroxybutyric Acid (GHB)
333	Hexobarbital	378	Amobarbital & non-controlled active ingred.
334	Hydroxyzine	379	Aprobarbital
335	Ketazolam	380	Barbituric Acid Derivative
336	Loprazolam	383	Dexfenfluramine
337	Lorazepam	384	Flurazepam
338	Lormetazepam	385	Sibutramin
339	Mebutamate	386	Zaleplon
340	Mecloqualone	387	Zolpidem
341	Medazepam	388	Amobarbital suppository dosage form
342	Mephobarbital (Methylphenobarbital)	389	Butobarbital (butethal)
343	Meprobamate	390	Embutramide
344	Methaqualone	391	Gamma Hydroxybutyric Acid preparations
345	Metharbital	393	Pentobarbital & noncontrolled active ingred.
346	Methohexital		
347	Methyprylon		
348	Midazolam		

394	Pentobarbital suppository dosage form	433	Modafinil
395	"Depressants, Type Unknown"	434	Vinbarbital
396	Pregabalin	435	Methylone
397	Secobarbital & noncontrolled active ingred.	436	Lisdexamfetamine
398	Secobarbital suppository dosage form	437	Methoxy-Methylenedioxymphetamine
399	Zopiclone	438	N, N-Dimethylamphetamine (Dimethylamphetamine)
<b>400-495 STIMULANTS</b>		439	N-Benzylpiperazine
		440	Stimulant compounds previously excepted
		495	"Stimulants, Type Unknown"

400	Amphetamine Sulfate	500	<b>500-595 HALLUCINOGENS</b>
401	Amphetamine	500	Amphetamine Variants
402	Benzoylecgonine	501	Bufotenine
403	Benzphetamine	503	Diethyltryptamine (DET)
404	Cathine (Norpseudoephedrine)	504	Dimethoxyamphetamine (DMA)
405	Chlorphentermine	505	Dimethyltryptamine (DMT)
406	Clortermine	506	DMA
407	Cocaine	507	Dronabinol
408	Dextroamphetamine	508	N-Ethyl-3piperidyl benzilate
409	Diethylpropion	509	Ibogaine
410	Egonine	511	Lysergic Acid
411	Fencamfamin	512	Mescaline
412	Fenethylline	513	Methylenedioxymamphetamine (MDMA)
413	Fenfluramine	514	Methoxyamphetamine (PMA)
414	Fenproporex	515	Methylenedioxymphetamine (MDA)
415	Mazindol	516	Nabilone
416	Mefenorex	517	Peyote
417	Methamphetamine	518	Phenylacetone (P2P)
418	Methylphenidate	519	Psilocybin
419	N-Ethylamphetamine	520	Psilocyn
420	Pemoline	521	Trimethoxy amphetamine
421	Phendimetrazine	522	Ketamine
422	Phenmetrazine	523	Alpha-Ethyltryptamine
423	Phentermine	524	Bromo-dimethoxyamphetamine
424	Pipradrol	525	Bromo-dimethoxyphenethylamine
425	Propylhexedrine	527	Lysergic Acid Amide
426	Pyrovalerone	528	Lysergic Acid Diethylamide (LSD)
427	SPA	529	Methylaminorex
428	Aminorex	530	Meth-dimethoxyamphetamine
429	Cathinone	531	Methylenedioxy-N-ethylamphetamine
430	Coca Leaves		
431	Dichloralphenazone		
432	Methcathinone		

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Drugs by Category Type

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533	N-Ethyl-1-phenylcyclohexylamine	807	Fluoxymesterone
534	Alpha-methyltryptamine	808	Formebulone (Formebolone)
535	Dimethoxyethylamphetamine	809	Mesterolone
536	Dimethoxy-(n)-propylthiophenethylamine	810	Methandienone
537	Methoxy-NN-diisopropyltryptamine	811	Methandranone
538	N-Hydroxymethylenedioxy-amphetamine	812	Methandroliol
539	N-Methylpiperidyl benzilate	813	Methandrostenolone
595	"Hallucinogens, Type Unknown"	814	Methenolone
<b>600-695 CANNABINOID</b>		815	Methyltestosterone
600	Delta 9	816	Mibolerone
601	Hashish Oil	817	Nandrolone
602	Hashish	818	Norethandrolone
603	Marijuana/Marihuana	819	Oxandrolone
604	Marinol	820	Oxymesterone
605	Tetrahydrocannabinols (THC)	821	Oxymetholone
695	"Cannabinoid, Type Unknown"	822	Stanolone
<b>700-795 PCP</b>		823	Stanozolol
700	Ethylamine	824	Testolactone
701	Parahexyl (Synhexyl)	825	Testosterone
702	Phencyclidine	826	Trenbolone
703	Phencyclidine Analogs	827	Clostebol
704	Phenylcyclohexylamine	828	Alpha, Beta-dihydroxy-alpha-androstane
705	Piperidinocyclohexane-carbonitrile (PCC)	829	Alpha-methyl-alpha-beta-dihydroxy-alpha-androstane
706	"Pyrrolidine (PCPy, PHP, TCPy) "	830	Alpha-methyl-beta-beta-dihydroxy-alpha-androstane
707	Thiophene	831	Alpha-methyl-beta-beta-dihydroxy-androstene
708	Thienyl Cyclohexyl/piperidine	832	Alpha-methyl-delta 1-dihydrotestosterone
709	Phenylcyclohexyl-Pyrrolidine	833	Alpha-methyl-hydroxynandrolone
710	Thienyl Cyclohexyl Pyrrolidine	834	Androstanedione
795	"PCP, Type Unknown"	835	Androstenediol
<b>800-895 ANABOLIC STEROIDS</b>		836	Androstenedione
800	Boldenone	837	Beta, beta-dihydroxy-alpha-androstane
801	Chlorotestosterone	838	Bolasterone
803	Dehydrochloromethyltestosterone	839	Calusterone
804	Dihydrotestosterone	840	Delta 1-dihydrotestosterone
805	Drostanolone	841	Furazabol
806	Ethylestrenol	842	Hydroxy-Nortestosterone
		843	Hydroxytestosterone
		844	Mestanolone
		845	Methyldienolone

846 Methyltrienolone  
847 Norandrostenediol  
848 Norandrostenedione  
849 Norbolethone  
850 Norclostebol  
851 Normethandrolone  
852 Stenbolone  
853 Tetrahydrogestrinone  
854 Boldione  
855 Desoxymethyltestosterone  
856 Dienedione  
895 "Anabolic Steroid, Type Unknown"

## 900-995 INHALANT

900 Volatile Solvents (toluene)  
901 Plastic Cement (airplane glue)  
902 Paint and Paint Removers  
903 "Petroleum Products (gasoline, kerosene)"  
904 Lacquer Thinners  
920 Anesthetic Gases  
921 Amyl Nitrite  
923 Butly Nitrite  
924 Nitrous Oxide  
925 Ether  
926 Chloroform  
940 Aerosols (hydrocarbon gases)  
941 Hair spray  
942 Insecticides  
943 Glass Chillers  
944 Frying Pan Lubricants  
945 Cyclohexl Nitrite  
946 Enflurane  
947 Halothane  
995 "Inhalants, Type Unknown"  
996 OTHER,  
  
997 TESTED; RESULTS UNKNOWN  
  
998 TESTED; DRUGS FOUND; TYPE UNKNOWN  
  
999 UNKNOWN IF TESTED FOR DRUG

## **TRANSPORTED TO FIRST MEDICAL FACILITY BY**

**FORMAT:** 1 numeric

**SAS NAME:** Person.Hospital

**ELEMENT VALUES:**

- 0 Not Transported
- 1 EMS Air
- 5 EMS Ground
- 3 EMS Unknown Mode
- 2 Law Enforcement
- 4 Transported Unknown Source
- 6 Other
- 8 Not Reported
- 9 Unknown

**Definition:** This element identifies the method of transportation this person was provided to receive treatment at the first hospital or medical facility.

**Remarks:**

Medical Facility refers to an injury treatment facility. The treatment facility is the first medical facility to which the person is taken. Use appropriate attribute, even if the person dies en route to the treatment facility. A morgue is not an injury treatment facility.

**0 (Not Transported)** is used for victims who are dead on the scene and for those who are not taken (or do not go) to a treatment facility or hospital for treatment. For example, an uninjured occupant rides along with an injured person to a treatment facility. ***0 (Not Transported) would be used if the person did not go to a treatment facility directly from the scene, but was transported at a later time for injuries sustained in this crash.***

**1 (EMS Air)** includes any air transport device. This code would be used any time air transport was used for this person. For example, If there is an indication that both air and ground transportation were used, code **1 (EMS Air)**.

**5 (EMS Ground)** includes transport by private and county/city-owned ambulance or rescue squad vehicles. This code should be used as the default for a person indicated to have been transported by EMS when there is no reason to suspect air or another source of transport was involved.

**3 (EMS Unknown Mode)** is used when a person is transported to a treatment facility by EMS, but the mode of transportation is not known. This code should be used when no specific indication of transport was made but some transport other than or in addition to ground was

utilized. For example, there is indication that the person was taken to a Level 1 trauma center in a different city from where the crash occurred but there is not specific indication of air transport.

**2 (Law Enforcement)** includes transport by state, county or local law enforcement agency vehicles.

**4 (Transported Unknown Source)** is used if you know the person was transported to a treatment facility, but you do not know the source.

**6 (Other)** includes transport by private citizens or individuals who drive themselves to the hospital or treatment facility. May be indicated on your crash report as "POV" (Privately/Personally Owned Vehicle).

**8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**9 (Unknown)** is used when it is reported as "unknown" whether or not this victim was taken (or went) to a hospital/treatment facility for treatment.

**FARS SPECIAL INSTRUCTION:**

Prior to 2007, this element was called "Taken to Hospital or Treatment Facility" and only recorded whether or not the person was transported for treatment. After 2007, this element's name was changed to "Transported for Treatment By". Beginning in 2010, this element's name is changed to "Transported to Medical Facility By" and indicates if the person was transported for treatment, and if transported, the source of transport. Beginning in 2013, this element's name was changed to "Transported to First Medical Facility By" to match the revised 4th Edition of MMUCC. It indicates the source of transport to the first medical facility receiving the patient injured in the crash.

**GES SPECIAL INSTRUCTION:**

This data element is not related to GES sampling.

**Consistency Checks:**

IF	THEN
(2U3F) INJURY SEVERITY equals 3,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 0.
(A551) EMS TIME AT HOSPITAL equals 8888, 9997, 9998,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 1, 3, 5 for any PERSON.
(P090) INJURY SEVERITY equals 0,	TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.
(P091) TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 1, 3, 5,	EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.
(P093) all persons TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 2, 4,	NOTIFICATION TIME EMS, ARRIVAL TIME EMS, EMS TIME AT HOSPITAL must equal 8888.
(P50P) DIED AT SCENE/EN ROUTE equals 7,	TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.
(P51P) DIED AT SCENE/EN ROUTE equals 8,	TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 1-6.

**Consistency Checks (FARS Only):**

IF	THEN
(P520) CRASH DATE and DEATH DATE are the same, and CRASH TIME and DEATH TIME are the same,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0, and DIED AT SCENE/EN ROUTE should equal 7.
(P52P) DIED AT SCENE/EN ROUTE equals 9,	TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 8 or 9.
(P55P) TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 9,	DIED AT SCENE/EN ROUTE must equal 0, 9.

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## DIED AT SCENE/EN ROUTE

**FORMAT:** 1 numeric

**SAS NAME:** Person.DOA

**ELEMENT VALUES:**

- 0 Not Applicable
- 7 Died at Scene
- 8 Died En Route
- 9 Unknown

**Definition:** This element identifies if this person died at the scene of the crash or en route to a hospital or treatment facility.

**Remarks:**

**0 (Not Applicable)** is used for non-fatalities and victims dying at locations other than the scene or en route (e.g., hospital, at home, etc.).

**7 (Died at Scene)** is used for victims who are dead on the scene of the crash.

**8 (Died En Route)** is used for victims who die en route to a hospital or treatment facility by EMS or other transport.

**9 (Unknown)** is used when you know the victim is a fatality, but you don't know if they died at the scene, en route, or at another location (e.g., home).

**Consistency Checks:**

	IF	THEN
(1R1P)	If DIED AT SCENE/EN ROUTE equals 7, 8,	INJURY SEVERITY must equal 4.
(P50P)	DIED AT SCENE/EN ROUTE equals 7,	TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.
(P510)	EMS TIME AT HOSPITAL equals 8888, 9997, 9998,	DIED AT SCENE/EN ROUTE should not equal 8 for any PERSON.
(P51P)	DIED AT SCENE/EN ROUTE equals 8,	TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 1-6.
(P56P)	DIED AT SCENE/EN ROUTE equals 7,	DEATH TIME should be within 30 minutes of the CRASH TIME.

IF	THEN
(P530) EMS TIME AT HOSPITAL equals 9996,	DIED AT SCENE/EN ROUTE must equal 8 for at least one person.
(P53P) INJURY SEVERITY equals 0-3, 5, 6,	DIED AT SCENE/EN ROUTE must equal 0.
(P54P) DIED AT SCENE/EN ROUTE equals 8,	EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.

**Consistency Checks (FARS Only):**

IF	THEN
(P520) CRASH DATE and DEATH DATE are the same, and CRASH TIME and DEATH TIME are the same,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0, and DIED AT SCENE/EN ROUTE should equal 7.
(P52P) DIED AT SCENE/EN ROUTE equals 9,	TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 8 or 9.
(P55P) TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 9,	DIED AT SCENE/EN ROUTE must equal 0, 9.

## **DEATH DATE**

**FORMAT:** 2 sets of 2 numeric, 1 set of 4 numeric

**SAS NAME:** Person.DEATH\_DA; Person.DEATH\_MO; Person.DEATH\_YR

**ELEMENT VALUES:**

**Month:**

88	Not Applicable (Non-fatal)
01-12	
99	Unknown

**Day:**

88	Not Applicable (Non-fatal)
01-31	
99	Unknown

**Year:**

8888	Not Applicable (Non-fatal)
	Actual Year of Death
9999	Unknown

**Definition:** This element records the month, day and year of this person's death.

**Remarks:**

The death must occur within thirty 24-hour time periods from time of the crash in order to be an applicable FARS death.

This element, although it contains three (3) pieces of information should, be treated as one element. Therefore, never leave any one portion blank when another is not.

Normally, the medical examiner or coroner is source of data for death date. If there are no data inconsistencies or errors, use the official death date as recorded on the Death Certificate. Do not change the official death date without good cause.

**Consistency Checks:**

**IF**

**THEN**

- |  |  |
|--|--|
| (1U1F) INJURY SEVERITY equals 4,                                   | DEATH DATE must not equal<br>88888888. |
| (1V0P) DEATH MONTH or DAY equals 88, or<br>DEATH YEAR equals 8888, | all must equal 8's.                    |

IF	THEN
(2U1F) INJURY SEVERITY is not equal to 4,	DEATH DATE must equal 88888888.
(2V0P) DEATH DAY is 01-31, and DEATH MONTH is 01-12,	DEATH DAY must be a valid day for DEATH MONTH.
(3U0P) DEATH DATE equals CRASH DATE, and CRASH TIME is not equal to 9999,	DEATH TIME must not be less than CRASH TIME.
(4V1F) INJURY SEVERITY equals 4,	DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME.
(4V2F) CRASH MONTH equals 12, and DEATH MONTH equals 01,	DEATH YEAR must equal CRASH YEAR plus 1.
(4V3F) CRASH MONTH equals 12,	DEATH MONTH must equal 01, 12, 88, 99.
(4V4F) CRASH MONTH equals 02-11, and DEATH MONTH is not equal to 88 or 99,	DEATH MONTH must equal CRASH MONTH or CRASH MONTH plus 1.
(4V5F) CRASH MONTH equals 01, and DEATH MONTH is not equal to 88 or 99,	DEATH MONTH must equal CRASH MONTH or CRASH MONTH plus 1 or CRASH MONTH plus 2.
(4V6P) DEATH MONTH is not equal to blanks,	DEATH DAY and DEATH YEAR must not equal blanks.
(4V7P) DEATH DAY is not equal to blanks,	DEATH MONTH and DEATH YEAR must not equal blanks.
(4V8P) DEATH YEAR is not equal to blanks,	DEATH MONTH and DEATH DAY must not equal blanks.
(6V0P) DEATH DATE must not be less than CRASH DATE.	
(7V0F) DEATH YEAR equals 9999,	CRASH MONTH must not be 01-11.
(8V0P) DEATH YEAR equals 9999,	DEATH MONTH and DEATH DAY must equal 99.
(9V0P) DEATH MONTH equals 99,	DEATH DAY must equal 99.

**Consistency Checks (FARS Only):**

IF	THEN
(P520) CRASH DATE and DEATH DATE are the same, and CRASH TIME AND DEATH TIME are the same,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0, and DIED AT SCENE/EN ROUTE should equal 7.

## **DEATH TIME**

**FORMAT:** 4 numeric

**SAS NAME:** Person.DEATH\_HR; Person.DEATH\_MN; Person.DEATH\_TM

**ELEMENT VALUES:**

8888	Not Applicable (Non-fatal)
0000-2359	Valid Military Time
0099-2399	Known Hour but Unknown Minutes
9999	Unknown

**Definition:** This element identifies the hour and minute of this person's death utilizing the 24-hour clock format.

**Remarks:**

If minutes are unknown, code the actual hour and "99" for the minutes. One minute after midnight is coded **0001**."

Normally, the medical examiner or coroner is source of data for death time. If there are no data inconsistencies or errors, use the official death time as recorded on the Death Certificate. Do not change the official death time without good cause.

If it is known that the person died at the scene and the official death time or "pronounced death time" (on the Death Certificate) is known to be in error, or is greater than 30 minutes after the crash time then CRASH TIME is the appropriate DEATH TIME to be used.

**How to Code Midnight:**

In general, code midnight as **0000**. However, there may be confusion over which day midnight falls into. Crash Time is recorded between 00:00-23:59. Midnight is coded as 00:00 to represent the beginning of a new day. This may not be the practice followed in your sources. Therefore, you have to determine which part of the day is being considered in your sources.

**End of Day**

If your data sources give you a Crash Date and are consistent in talking about the end of that day, when they give the time of the crash as "midnight," "12:00-midnight," "24:00" or "00:00," then you should code Crash Time as **2359**.

**Beginning of Day**

If your sources give a Crash Date and are consistent in referring to the beginning or early moments of that day when they give a crash time, code midnight as **0000**.

**Consistency Checks:**

<b>IF</b>	<b>THEN</b>
(1U2F) INJURY SEVERITY equals 4,	DEATH TIME must not equal 8888.
(2U2F) INJURY SEVERITY is not equal to 4,	DEATH TIME must equal 8888.
(3U0P) DEATH DATE equals CRASH DATE, and CRASH TIME is not equal to 9999,	DEATH TIME must not be less than CRASH TIME.
(4V1F) INJURY SEVERITY equals 4,	
(P56P) DIED AT SCENE/EN ROUTE equals 7,	DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME. DEATH TIME should be within 30 minutes of the CRASH TIME.

**Consistency Checks (FARS Only):**

<b>IF</b>	<b>THEN</b>
(P520) CRASH DATE and DEATH DATE are the same, and CRASH TIME AND DEATH TIME are the same,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0, and DIED AT SCENE/EN ROUTE should equal 7.

## **RELATED FACTORS – PERSON (MV OCCUPANT) LEVEL**

**FORMAT:** 2 numeric occurring 3 times

**SAS NAME:** Person.P\_SF1, Person.P\_SF2, Person.P\_SF3

**ELEMENT VALUES:**

- 00 None
- 05 Interfering With Driver
- \*08 Mentally Challenged
- 09 Construction/Maintenance/Utility Worker
- \*18 Mother of Dead Fetus/Mother of Infant Born Post Crash
- 21 Overloading or Improper Loading of Vehicle With Passengers or Cargo
- \*26 Following Improperly
- 89 Parked Motor Vehicle With Equipment Extending into the Travel Lane
- \*28 Failure to Keep in Proper Lane
- \*29 Illegal Driving on Road Shoulder, in Ditch, on Sidewalk or on Median
- 32 Opening Vehicle Closure into Moving Traffic or While Vehicle is in Motion
- \*33 Passing Where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or School Bus Displaying Warning Not to Pass Line
- \*37 Traveling on Prohibited Trafficways
- \*40 Passing Through or Around Barrier
- \*41 Failure to Observe Warnings or Instructions on Vehicles Displaying Them
- \*42 Failure to Signal Intentions
- \*44 Driving Too Fast for Conditions or in Excess of Posted Maximum
- \*45 Driving Less Than Posted Minimum
- \*47 Making Right Turn From Left-Turn Lane, Left Turn From Right-Turn Lane
- \*51 Operator Inexperience
- \*52 Unfamiliar with Roadway
- 56 Non-Driver Flees Scene
- \*57 Improper Tire Pressure
- \*58 Locked Wheel
- \*59 Overcorrecting

**Vision Obscured By:**

- \*60 Rain, Snow, Fog, Smoke, Sand, Dust
- \*61 Reflected Glare, Bright Sunlight, Headlights
- \*62 Curve, Hill, or Other Design Features (including traffic signs, embankment)
- \*63 Building, Billboard, Other Structures
- \*64 Trees, Crops, Vegetation
- \*65 Motor Vehicle (including load)
- \*66 Parked Vehicle
- \*67 Splash or Spray of Passing Vehicle
- \*68 Inadequate Lighting System
- \*69 Obstructing Angles on Vehicle

- \*70 Mirrors
- \*72 Other Visual Obstruction

**Skidding, Swerving Sliding, Due To:**

- \*73 Severe Crosswind
- \*74 Wind From Passing Truck
- \*75 Slippery or Loose Surface
- \*76 Tire Blowout or Flat
- \*77 Debris or Objects in Road
- \*78 Ruts, Holes, Bumps in Road
- \*80 Vehicle in Road
- \*81 Phantom Vehicle
- \*82 Pedestrian, Pedal Cyclists, or Persons on Personal Conveyances.
- \*83 Ice, Snow, Slush, Water, Sand, Dirt, Oil, Wet Leaves on Road

**Other Factors:**

- 86 Emergency Services Personnel
- 87 Police or Law Enforcement Officer
- \*88 Seat Back Not in Normal Upright Position, Seat Back Reclined
- 91 Portable Electronic Devices
- 92 Person in Ambulance Treatment Compartment
- 99 Unknown

**\*FARS ONLY ATTRIBUTES**

**Definition:** This element identifies factors related to motor vehicle occupants other than drivers expressed by the investigating officer.

**Remarks:**

<b>Related Factors</b>		<b>Examples/Notes</b>
<b>00</b>	Not Applicable – Driver/None – All Other Persons	
<b>05</b>	Interfering With Driver	Obstructing driver's view. Striking driver with body or object. Rambunctious individuals who make driver inattentive, even without touching driver or controls. Motorcycle passenger (or other cyclist) shifting weight or affecting driver control.
<b>*08</b>	Mentally Challenged	Mental illness/ <b>intellectual developmental disorder</b> may be included.

<b>Related Factors</b>		<b>Examples/Notes</b>
<b>09</b>	Construction/Maintenance/Utility Worker	Highway department, contractor, utility company personnel, etc. Occupant of a working motor vehicle.
<b>21</b>	Overloading or Improper Loading of Vehicle With Passengers or Cargo	For vehicle occupants: Two or more people located in one seating position.
<b>*26</b>	Following Improperly	Bicyclist following too closely or attempting to grab on to vehicle. Also applies to skateboard riders, roller bladders, etc.
<b>89</b>	Parked Motor Vehicle With Equipment Extending into the Travel Lane	Example: <ul style="list-style-type: none"> <li>• Extended mirrors used when hauling a camper or trailer.</li> </ul> NOTE: This should not be used for loads of vehicles extending into the travel lane e.g., attached trailers or oversized cargo. In these cases the vehicle is in-transport and not parked.
<b>*28</b>	Failure to Keep in Proper Lane	Bicyclist fails to keep in bicycle lane. Persons not in motor vehicles in-transport and working motor vehicles fail to stay in proper lane. Going straight in a turn lane.
<b>*29</b>	Illegal Driving on Road Shoulder, in Ditch, on Sidewalk or on Median	Persons not in motor vehicles in-transport driving off pavement or roadway, physically driving on shoulder, etc.
<b>32</b>	Opening Vehicle Closure into Moving Traffic or While Vehicle is in Motion	Opening trunk while vehicle is moving. Opening door into moving traffic. A passenger opening the door at a stop light. An occupant of a parked motor vehicle opens the door into the travel lane.
<b>*33</b>	Passing Where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or School Bus Displaying Warning Not to Pass Line	Passing stopped school bus. Crossing over solid line to pass. Passing uphill; mainly violations as designated by traffic controls.

Related Factors		Examples/Notes
*37	Traveling on Prohibited Trafficways	Persons not in motor vehicles in-transport on areas prohibited by law, such as interstates. Persons not in motor vehicles in-transport on prohibited trafficways, e.g., bicyclist on interstate.
*40	Passing Through or Around Barrier	Denotes "demarcated" area.
*41	Failure to Observe Warnings or Instructions on Vehicles Displaying Them	Failure to follow construction instructions (e.g., arrows directing traffic mounted on vehicle), instructions on emergency vehicles (ambulances, fire trucks, police cars). Failure to observe right-turn warning on trucks, buses. Failure to heed hazard lights on disabled vehicle, school bus arm.
*42	Failure to Signal Intentions	Failure to signal by either lamp turn signal or hand.
*44	Driving Too Fast for Conditions or in Excess of Posted Maximum	Conditions denote: weather, sharp curves, bridges, tunnels, school zone, traffic, person or road. Speed greater than reasonable or prudent.
*45	Driving Less Than Posted Minimum	Driving too slowly, so as to impede traffic.
*47	Making Right Turn From Left-Turn Lane, Left Turn From Right-Turn Lane	To distinguish from <b>Improper Lane Change</b> ; police officer must have knowledge of driver's intention.
*51	Operator Inexperience	Persons not in motor vehicles in-transport unfamiliar with transport device.
*52	Unfamiliar with Roadway	Persons not in motor vehicles in-transport unfamiliar with roadway, based on the judgment of the police officer.

<b>Related Factors</b>		<b>Examples/Notes</b>
<b>56</b>	Non-Driver Flees Scene	Flags the non-driver who left the scene of a Hit-and-Run crash. Examples: passenger of motor vehicle in-transport fled scene on foot. Occupant of an involved parked vehicle leaves by driving their vehicle from the scene. A bicyclist clipped by a vehicle that runs off the road and overturns, leaves the scene on their bike. An involved motor vehicle in-transport is driven away by a passenger in that vehicle.
<b>*57</b>	Improper Tire Pressure	Signifies that improper tire pressure is not a defect, but rather the irresponsibility of the persons not in motor vehicles in-transport.
<b>*58</b>	Locked Wheel	Occurs when braking too suddenly as noted by police officer. Can't be inferred just from skid marks.
<b>*59</b>	Overcorrecting	Based on the judgment of the police officer, with knowledge of the intention of the person not in a motor vehicle in-transport. Over steering.
<b><u>Vision Obscured by:</u></b>		
<b>*60</b>	Rain, Snow, Fog, Smoke, Sand, Dust	
<b>*61</b>	Reflected Glare, Bright Sunlight, Headlights	
<b>*62</b>	Curve, Hill, or Other Design Features (including traffic signs, embankment)	
<b>*63</b>	Building, Billboard, Other Structures	
<b>*64</b>	Trees, Crops, Vegetation	

<b>Related Factors</b>		<b>Examples/Notes</b>
*65	Motor Vehicle (including load)	Vision Obscured by: <ul style="list-style-type: none"><li>• Car stopped on roadway.</li><li>• Tractor-trailer moving on road.</li><li>• School bus stopped, loading or unloading children.</li></ul>
*66	Parked Vehicle	Vision obscured by: <ul style="list-style-type: none"><li>• Vehicle stopped on shoulder, in parking lane.</li></ul>
*67	Splash or Spray of Passing Vehicle	
*68	Inadequate Lighting System	
*69	Obstructing Angles on Vehicle	Vision Obscured by: <ul style="list-style-type: none"><li>• Obstructing angles on this person's vehicle.</li></ul> Not to be confused with visual obstructions from other vehicles. (See <b>65 (Motor Vehicle [including load])</b> and <b>66 (Parked Vehicle)</b> .)
*70	Mirrors	Vision Obscured by: <ul style="list-style-type: none"><li>• Rear view</li><li>• Side mirrors</li><li>• Others</li></ul>
*72	Other Visual Obstruction	Trailer (only) left parked.
<b><u>Skidding Swerving, Sliding Due To:</u></b>		
*73	Severe Crosswind	
*74	Wind From Passing Truck	
*75	Slippery or Loose Surface	Refers to actual condition of roadway surface, i.e., loose gravel roadway. Slippery or old worn blacktop. Newly paved surface.
*76	Tire Blowout or Flat	
*77	Debris or Objects in Road	Nails, glass, trash cans, tire retread, trash, dead animals, pile of sand, etc.

<b>Related Factors</b>		<b>Examples/Notes</b>
<b>*78</b>	Ruts, Holes, Bumps in Road	
<b>*80</b>	Vehicle in Road	Includes both contact and non-contact vehicles that remain at the scene.
<b>*81</b>	Phantom Vehicle	Non-contact vehicle that leaves the scene as described by the police officer.
<b>*82</b>	Pedestrian, Pedal Cyclists, or Persons on Personal Conveyances	
<b>*83</b>	Ice, Snow, Slush, Water, Sand, Dirt, Oil, Wet Leaves on Road	This is for the substances on roadway that causes roadway to be slick, which may interfere with traction. These are not part of the roadway design (see <b>75 (Slippery or Loose Surface)</b> ).
<b><u>Other Factors</u></b>		
<b>86</b>	Emergency Services Personnel	Includes fire, wrecker service personnel and EMS (includes personnel located in the cab or the treatment compartment of an ambulance).
<b>87</b>	Police or Law Enforcement Officer	Federal, State or local law enforcement officer working at the time of the crash. Includes: Military and Park Police, Border Patrol and all other sworn law enforcement officers.
<b>*88</b>	Seat Back Not in Normal Upright Position, Seat Back Reclined	
<b>91</b>	Portable Electronic Devices	Cell phone, MP3 Player, PDA, etc.
<b>92</b>	Person in Ambulance Treatment Compartment	Example: Patients, EMS Personnel and other persons accompanying patients. Note: for persons identifiable as EMS personnel also use RELATED FACTORS – PERSON (MV OCCUPANT) attribute <b>86 (Emergency Services Personnel)</b> .
<b>99</b>	Unknown	

**\*FARS ONLY ATTRIBUTES**

**CODING HIERARCHY:** When more than three attributes apply, select the attributes that have not been previously captured under other related elements.

For forms with Person Type **01 (Driver of a Motor Vehicle In-Transport)**, zero-fill all three fields. The related factors for drivers are captured in the Related Factors-Driver Level.

Code information provided in the narrative by the investigating officer.

#### **Use of 00 (None)**

Use when no factors are noted; zero-fill all fields. None implies that the investigating officer indicated “no factors.” Also, use **00 (None)** to complete remaining fields when you will be recording less than three related factors. DO NOT leave any remaining fields blank.

#### **Use of 99 (Unknown)**

Use when the circumstances surrounding the crash are unknown and reported as “unknown” by the investigating officer. In these circumstances, nine-fill all fields. If **99 (Unknown)** is used for any field, ALL fields must be **99 (Unknown)**. DO NOT leave any remaining fields blank.

The following lists those related factors that may be used for each person type (P7):

Person Type	Valid Related Factors
01	00
02	00, 05, 08, 09, 18, 32, 56, 86-89, 92, 99
03	00, 05, 08, 09, 18, 21, 26, 28, 29, 32, 33, 37, 40-42, 44, 45, 47, 51, 52, 56-70, 72-78, 80-83, 86-89, 91, 92, 99
09	00, 05, 08, 09, 18, 32, 86-89, 92, 99

#### **Consistency Checks:**

	IF	THEN
(1W0P)	any RELATED FACTORS-PERSON LEVEL equals 99,	all factors must equal 99.
(2W0P)	any RELATED FACTORS-PERSON LEVEL equals blanks,	all factors must equal blanks.
(3W0P)	any RELATED FACTORS-PERSON LEVEL equals 00,	all subsequent factors must equal 00.
(4W0P)	A RELATED FACTORS-PERSON LEVEL (MV Occupant) between 05 and 92 can be used only once per person form.	
(5N0F)	PERSON TYPE equals 02,	RELATED FACTORS-PERSON LEVEL (MV Occupant) must not equal 21, 26, 28, 29, 33, 37, 40-42, 44, 45, 47, 51-53, 57-70, 72-78, 80-83, 91.

IF	THEN
(580F) FIRST HARMFUL EVENT equals 14, and RELATED FACTORS- PERSON (MV OCCUPANT) LEVEL does not equal 32, 89 for at least one occupant in the not in-transport motor vehicle involved in the first harmful event,	RELATION TO TRAFFICWAY should not equal 01.
(5M0G) SPECIAL USE equals 06, and PERSON TYPE equals 02 or 09,	RELATED FACTORS-PERSON (MV OCCUPANT) LEVEL should equal 86 or 92.
(7M0F) PERSON TYPE equals 03, and SEATING POSITION does not equal 11,	RELATED FACTORS-PERSON LEVEL (MV Occupant) must not equal 21, 26, 28, 29, 33, 37, 40-42, 44, 45, 47, 51-53, 57-70, 72-78, 80-83, 91.
(A60F) FIRST HARMFUL EVENT equals 14,	CRASH TYPE <b>must</b> equal 01-11, <b>14</b> , <b>15</b> , 92, 98, 99 for the in-transport vehicle involved in the first harmful event.
<b>(A65F) FIRST HARMFUL EVENT equals 14, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL equals 32 or 89 for an occupant of the parked vehicle involved in the first harmful event,</b>	<b>CRASH TYPE should equal 15, 92 or 98 for the in-transport vehicle involved in the first harmful event.</b>
<b>(A66F) FIRST HARMFUL EVENT equals 14, and CRASH TYPE 01-10 or 14,</b>	<b>RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL must not equal 32 or 89 for any occupant of the parked vehicle involved in the first harmful event.</b>
<b>(A67F) FIRST HARMFUL EVENT equals 14, and CRASH TYPE equals 15,</b>	<b>RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL should equals 32 or 89 for an occupant of the parked vehicle.</b>
(CL0P) PERSON TYPE equals 09,	RELATED FACTORS-PERSON LEVEL (MV Occupant) must not equal 21, 26, 28, 29, 33, 37, 40-42, 44, 45, 47, 51, 52, 56-70, 72-78, 80-83, 91.

**Consistency Checks (FARS Only):**

IF	THEN
(5W0P) RELATED FACTORS-PERSON LEVEL equals 18,	SEX must equal 2, and AGE must be greater than 012.

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## **PERSON NUMBER**

**FORMAT:** 3 numeric

**SAS NAME:** Person.PER\_NO

**ELEMENT VALUES:**

001-999      Assigned Number

**Definition:** This element identifies a number for persons that are not in a motor vehicle in consecutive order.

**Remarks:**

This elements values and remarks are identical to Person Level (MV Occupant) Level element P4. Please see page [697](#)for remarks.

**Consistency Checks:**

- (CSI6) For each VEHICLE NUMBER, PERSON NUMBERS must be consecutive, beginning with 001 and with no gaps.
- (CSI7) PERSON NUMBERS for persons not in motor vehicles must be consecutive, beginning with 001 and with no gaps.

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## **NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST**

**FORMAT:** 3 numeric

**SAS NAME:** Person.STR\_VEH

**ELEMENT VALUES:**

001-998	Assigned Vehicle Number
999	Unknown

**Definition:** This data element captures the in-transport vehicle that made contact with this non-motorist.

**Remarks:**

This only applies to those non-motorists who are not occupants of a motor vehicle. If a non-motorist is contacted by a parked or working motor vehicle that was propelled by an in-transport vehicle, record the vehicle number of the in-transport vehicle.

In cases where more than one vehicle makes contact with a non-occupant, code the number of the vehicle that caused the most significant injury. If uncertain, code the number of the vehicle that made contact first.

**999 (Unknown)** is used when the investigating officer indicates that it is unknown which vehicle struck the non-motorist.

**Consistency Checks:**

	IF	THEN
(050P)	PERSON TYPE equals 04-08, 19, and NUMBER OF VEHICLE FORMS SUBMITTED equals 001,	NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal 001.
(060P)	NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is not equal to 000, 999,	the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal some VEHICLE NUMBER in the case, <b><i>and the UNIT TYPE must equal 1.</i></b>

	IF	THEN
(A61G)	the FIRST HARMFUL EVENT equals 08, and PERSON TYPE equals 05, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT,	CRASH TYPE should not equal 13 for this vehicle.
(A61H)	the FIRST HARMFUL EVENT equals 09, and PERSON TYPE equals 06, 07, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT,	CRASH TYPE should not equal 13 for this vehicle.
(A61J)	the FIRST HARMFUL EVENT equals 15, and PERSON TYPE equals 08, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28 and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT,	CRASH TYPE should not equal 13 for this vehicle.
(A61K)	the FIRST HARMFUL EVENT equals 49, and PERSON TYPE equals 04, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.
(PB30)	PEDESTRIAN/BIKE TYPING - PEDESTRIAN CRASH TYPE equals 220,	at least one DRIVER PRESENCE must equal 0 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB31)	PEDESTRIAN/BIKE TYPING - BICYCLIST CRASH TYPE equals 147, 157 or 357,	at least one DRIVER'S VISION OBSCURED BY must equal 06 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.

IF	THEN
(PB32) PEDESTRIAN/BIKE TYPING - PEDESTRIAN CRASH TYPE equals 742,	at least one DRIVER'S VISION OBSCURED BY must not equal 00 or 95 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB40) PEDESTRIAN/BIKE TYPING - BICYCLIST CRASH TYPE equals 600,	at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, or 13 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB41) PEDESTRIAN/BIKE TYPING - BICYCLIST CRASH TYPE equals 215,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08 or 09 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB42) PEDESTRIAN/BIKE TYPING - BICYCLIST CRASH TYPE equals 111, 211 or 212,	at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 11 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB43) If PEDESTRIAN/BIKE TYPING - BICYCLIST CRASH TYPE equals 112, 151, 213, 214, 217 or 218,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB45) PEDESTRIAN/BIKE TYPING - PEDESTRIAN CRASH TYPE equals 781 or 782,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 11 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB46) PEDESTRIAN/BIKE TYPING - BICYCLIST CRASH TYPE equals 221- 225,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 01 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON- MOTORIST.

	IF	THEN
(PB49)	PERSON TYPE equals 05 or 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,	at least one PEDESTRIAN/BIKE TYPING -PEDESTRIAN CRASH TYPE should equal 211-214 or 219.
(PB50)	PERSON TYPE equals 05 or 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10-12 or 16 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,	at least one PEDESTRIAN/BIKE TYPING -PEDESTRIAN CRASH TYPE should equal 460, 465, 510, 781, 782, 791, 792, 794, 795 or 799.
(PB52)	PERSON TYPE equals 06 or 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,	at least one PEDESTRIAN/BIKE TYPING -BICYCLIST CRASH TYPE should equal <b>610</b> .
(PB56)	PEDESTRIAN/BIKE TYPING - PEDESTRIAN CRASH TYPE equals 791, 792, 794, 795,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PBA0)	<b>PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 111, 211, 212, and VEHICLE NUMBER - VEHICLE LEVEL equals NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,</b>	<b>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11.</b>
(PBA1)	<b>PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 112, 151, 213, 214, 217 or 218, and VEHICLE NUMBER - VEHICLE LEVEL equals NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,</b>	<b>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10.</b>

**AGE****FORMAT:** 3 numeric**SAS NAME:** Person.Age**ELEMENT VALUES:**

	Blank
000	Less than One Year
001-120	Actual Age*
998	Not Reported
999	Unknown

**Definition:** This element identifies the persons age, in years, with respect to the person's last birthday.

**Remarks:**

This elements values and remarks are identical to Person Level (MV Occupant) Level element P5. Please see page [701](#)for remarks.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(5W0P)	RELATED FACTORS-PERSON LEVEL equals 18,	SEX must equal 2, and AGE must be greater than 012.
(7P0F)	PERSON TYPE equals 01,	AGE must not be less than 002.
(8P1P)	PERSON TYPE equals 01, and AGE is less than 008,	BODY TYPE should equal 88, 91.
(9L0F)	PERSON TYPE equals 01, and RELATED FACTORS-DRIVER LEVEL equals 12,	SEX must equal 2, and AGE must be greater than 012.
(D060)	NON-CDL LICENSE STATUS equals 1-4, 6, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 1-8, and PERSON TYPE equals 01,	AGE should not be less than 015.
(D620)	NON-CDL LICENSE TYPE equals 7,	AGE (for the driver) should equal 014-016.
(D630)	NON-CDL LICENSE TYPE equals 2,	AGE (for the driver) should equal 015-017.
(D640)	AGE equals 014-017, and PERSON TYPE equals 01,	NON-CDL LICENSE TYPE should equal 2, 7.

	<b>IF</b>	<b>THEN</b>
(D650)	AGE equals 018-120, and PERSON TYPE equals 01, and NON-CDL LICENSE STATUS does not equal 0,	NON-CDL LICENSE TYPE should equal 1.
(P010)	PERSON TYPE equals 01	AGE should not be less than 012.
(P020)	PERSON TYPE equals 02, 03, 09, and PROTECTION SYSTEM USE equals 04, 10-12,	AGE should be less than 010, or equal to 999.
(P180)	PERSON TYPE equals 01, and AGE is less than 009,	BODY TYPE should not equal 90.
(P1A0)	AGE is less than 012, and INJURY SEVERITY equals 4,	FATAL INJURY AT WORK should equal 0.
(U120)	UNLIKELY: AGE should not be greater than 094, unless equal to 998, 999.	
(U360)	UNLIKELY: HIT-AND-RUN equals 0 or 9, and AGE equals 999.	

**SEX****FORMAT:** 1 numeric**SAS NAME:** Person.Sex**ELEMENT VALUES:**

- 1 Male
- 2 Female
- 8 Not Reported
- 9 Unknown

**Definition:** This element identifies the sex of the person involved in the crash.**Remarks:**

This elements values and remarks are identical to Person Level (MV Occupant) Level element P6. Please see page 705 for remarks.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(5W0P)	RELATED FACTORS-PERSON LEVEL equals 18,	SEX must equal 2, and AGE must be greater than 012.
(9L0F)	PERSON TYPE equals 01, and RELATED FACTORS-DRIVER LEVEL equals 12,	SEX must equal 2, and AGE must be greater than 012.
(U340)	UNLIKELY: HIT-AND-RUN equals 0 or 9, and SEX equals 9.	

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## **PERSON TYPE**

**FORMAT:** 2 numeric

**SAS NAME:** Person.PER\_TYP

**ELEMENT VALUES:**

- 4 Occupant of a Non-Motor Vehicle Transport Device
- 5 Pedestrian
- 6 Bicyclist
- 7 Other Cyclist
- 8 Person on Personal Conveyances
- 10 Persons In/On Buildings
- 19 Unknown Type of Non-Motorist

**Definition:** This element describes the role of this person involved in the crash.

**Remarks:**

**4 (Occupant of a Non-Motor Vehicle Transport Device)** refers to persons riding in an animal-drawn conveyance, on an animal, or injured occupants of railway trains, etc.

**5 (Pedestrian)** is used for all pedestrians except for those in/on personal conveyances (See **08 (Persons on Personal Conveyances)** below) and in buildings. A pedestrian pushing a vehicle should be coded **Pedestrian**.

**6 (Bicyclist)** is used for a two-wheel, non-motorized cycle. Includes all persons (operator and passengers) on a bicycle.

**7 (Other Cyclist)** is used for unicycles and tricycles.

**8 (Person on Personal Conveyances):** This attribute should be used for pedestrians using personal conveyances. A personal conveyance is a device, other than a transport device, used by a pedestrian for personal mobility assistance or recreation. These devices can be motorized or human powered, but not propelled by pedaling.

Inclusions:

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>1) Rideable toys           <ul style="list-style-type: none"> <li>— Roller Skates, In-Line skates</li> <li>— Skateboards</li> <li>— Skates</li> <li>— Baby carriage</li> <li>— Scooters</li> <li>— Toy Wagons</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>2) Motorized rideable toys           <ul style="list-style-type: none"> <li>— Motorized skateboard</li> <li>— Motorized toy car</li> </ul> </li> <li>3) Devices for personal mobility assistance           <ul style="list-style-type: none"> <li>— Segway-style devices</li> <li>— Motorized and non-motorized wheelchairs</li> </ul> </li> </ul> |
|---|---|

- Handicapped scooters  
**Exclusions:**  
 — Golf cart  
 — Low Speed Vehicles (LSVs)  
 — Go-carts
- Minibike  
 — “Pocket” motorcycles  
 — Motor scooters  
 — Moped

Wheelchair: use the term, “wheelchair” as follows:

“Wheelchair - A mobility aid, usable indoors, and designed for and used by individuals with mobility impairments, whether operated manually or powered.” Therefore all wheelchair users, motorized or not, are **08 (Persons on Personal Conveyances)**.

**RATIONALE:**

Some states have passed legislation to classify operators of motorized wheelchairs as “pedestrians” and others as “motor vehicles.” Also, there seems to be an increase in the variety of forms these devices take (if not in the actual number in use). Some resemble 3-wheeled scooters; others small four-wheel carts; still others look like the typical human-powered wheelchair. They are in use by individuals who are unable to walk, who have limited walking ability, or who need to avoid walking for reasons of health or stamina. Since these devices simply supply a form of assisted “walking” for such persons, their legitimate users may be seen as “other persons on personal conveyances” just as other non-motorists moving along a sidewalk, walking with or against traffic on the edge of a road, crossing the roadway, or turning into a driveway.

**10 (Persons In/On Buildings)** is used for a person inside of or on a building who is struck by a motor vehicle. **10 (Persons In/On Buildings)** takes precedence over attributes “05-08.”

**19 (Unknown Type of Non-Motorist)** is used only when it cannot be determined which attribute is applicable for persons not in motor vehicles.

**Consistency Checks:**

IF	THEN
(050P) PERSON TYPE equals 04-08, 19, and NUMBER OF VEHICLE FORMS SUBMITTED equals 001,	NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal 001.
(1M1F) RELATED FACTORS-PERSON LEVEL equals 13,	PERSON TYPE should equal 08.
(1N0F) PERSON TYPE equals 06,	RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 09, 13, 69, 70, 86, 90.
(1N1F) PERSON TYPE equals 10,	RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 09, 21, 37, 40-42, 51, 52, 56, 57, 60-70, 72-78, 80-83, 90, 91.

	IF	THEN
(1N2F)	PERSON TYPE equals 10,	at least one NON-MOTORIST SAFETY EQUIPMENT should equal 1.
(1P2F)	PERSON TYPE equals 10,	NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.
(1P3F)	PERSON TYPE equals 10,	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must not equal 01-12, 16, and <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> must not equal 01-20.
(1P4F)	PERSON TYPE equals 04,	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must not equal 04, 12.
(1P5F)	PERSON TYPE equals 06-08, 19,	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must not equal 04.
(1P7F)	PERSON TYPE equals 04,	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> should not equal 10, 11.
(1P8F)	PERSON TYPE equals 06, 07,	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> should not equal 10-12.
(1P9F)	PERSON TYPE equals 08,	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> should not equal 11.
(1P0G)	PERSON TYPE equals 05,	<b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> must not equal 07, 08, 10, 13-18, 20.
(1P1G)	PERSON TYPE equals 19,	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> should not equal 11, 12.
(1P3G)	PERSON TYPE equals 04, 06, 07,	<b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> should not equal 04.
(1P4G)	PERSON TYPE equals 04, 06-08, 19,	<b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> should not equal 05.
(1P5G)	PERSON TYPE equals 08,	<b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> should not equal 20.
(1P6G)	PERSON TYPE equals 04, 06-08, 19,	CONDITION (IMPAIRMENT) AT TIME OF CRASH must not equal 03.
(1P7G)	PERSON TYPE equals 05-07, 19,	CONDITION (IMPAIRMENT) AT TIME OF CRASH should not equal 04.
(1P8G)	PERSON TYPE equals 10,	CONDITION (IMPAIRMENT) AT TIME OF CRASH should not equal 01-10, 96.
(3P0F)	PERSON TYPE equals 03-08, 10, 19,	INJURY SEVERITY should not equal 6.
(550F)	FIRST HARMFUL EVENT equals 08,	at least one person must have PERSON TYPE equal 05, 10.
(560F)	FIRST HARMFUL EVENT equals 09,	at least one person must have PERSON TYPE equal to 06, 07.
(590F)	FIRST HARMFUL EVENT equals 15,	at least one Person Level form must have a PERSON TYPE of 08.
(5Z0F)	SEQUENCE OF EVENTS equals 08,	at least one person must have PERSON TYPE equal to 05, 10.

IF	THEN
(6Z0F) SEQUENCE OF EVENTS equals 09,	at least one person must have PERSON TYPE equal to 06, 07.
(880F) RELATED FACTORS-CRASH LEVEL equals 16,	there must be a Person Level (Not a MV Occupant) form with PERSON TYPE equal to 04-08, 19.
(890F) RELATED FACTORS-CRASH LEVEL equals 15,	there must be a Person Level (Not a MV Occupant) form with PERSON TYPE equal to 04-08, 10, 19.
(8M0F) PERSON TYPE equals 04,	RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 13, 86, 90.
(8Q0F) PERSON TYPE equals 08,	RELATED FACTORS-PERSON LEVEL must not equal 09, 86, 90.
(8T0F) any NON-MOTORIST SAFETY EQUIPMENT equals 2,	PERSON TYPE should equal 06-08.
(8Z0F) any SEQUENCE OF EVENTS equals 15,	at least one Person Level (Not a MV Occupant) form must have a PERSON TYPE code of 08.
(9M0F) PERSON TYPE equals 05,	RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 13, 21, 26, 40, 42, 51, 52, 57, 68-70, 73-83, 88.
(9P0F) PERSON TYPE equals 04-08, 10, 19, (A61G) the FIRST HARMFUL EVENT equals 08, and PERSON TYPE equals 05, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	EXTRICATION must not equal 1, 9. CRASH TYPE should not equal 13 for this vehicle.
(A61H) the FIRST HARMFUL EVENT equals 09, and PERSON TYPE equals 06, 07, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.

	IF	THEN
(A61J)	the FIRST HARMFUL EVENT equals 15, and PERSON TYPE equals 08, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.
(A61K)	the FIRST HARMFUL EVENT equals 49, and PERSON TYPE equals 04, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.
(BF0F)	PERSON TYPE equals 04-08, 10, 19,	EJECTION PATH must equal 0.
(CK0P)	PERSON TYPE equals 07,	RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 09, 13, 69, 70, 86, 87, 90.
(CM0P)	PERSON TYPE equals 19,	RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 13, 69, 70, 90.
(FP0F)	PERSON TYPE is blank, case status is flawed.	
(FP9F)	PERSON TYPE equals 05, 06, 07, 08 and the PEDESTRIAN/BIKE - CRASH TYPE equals blank, case status is flawed.	
(P071)	PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	ALCOHOL TEST STATUS should not equal 9, ALCOHOL TEST TYPE should not equal 99, and ALCOHOL TEST RESULT should not equal 99.
(P073)	PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	DRUG TEST STATUS should not equal 9 and any DRUG TEST TYPE should not equal 9, and any DRUG TEST RESULTS should not equal 999.
(P074)	PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	ALCOHOL TEST STATUS must not equal 8, ALCOHOL TEST TYPE must not equal 95, and ALCOHOL TEST RESULT must not equal 95.
(P075)	PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	DRUG TEST STATUS must not equal 8, any DRUG TEST TYPE must not equal 6, and any DRUG TEST RESULTS must not equal 095.
(PB22)	SCHOOL BUS RELATED equals 1, and PERSON TYPE equals 05 or 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 342.

	IF	THEN
(PB23)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 342, and PERSON TYPE equals 05 or 08,	SCHOOL BUS RELATED should equal 1.
(PB24)	PERSON TYPE equals 05 or 08, and NON-MOTORIST LOCATION AT TIME OF CRASH equals 14, 16, 20, 21, 22, 24 or 25,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 230, 320, 410, 420, 430, 440, 459, 510, 520, 590, 830 or 890.
(PB25)	PERSON TYPE equals 05 or 08, and <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> equals 01-03 or 09,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 690, 710, 730, 741, 742, 760, 770, 781, 782, 791, 792, 794, 795 or 799.
(PB26)	<b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> equals 02, and PERSON TYPE equals 06 or 07,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> should equal 142, 144, 147, 153, 155, 156, 157, 159, 311, 312, <b>313</b> , 318, 319 or 357.
(PB27)	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> equals 05, and PERSON TYPE equals 05 or 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 410 or 420.
(PB28)	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> equals 06, and PERSON TYPE equals 05 or 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 430 or 440.
(PB29)	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> equals 04, and PERSON TYPE equals 05 or 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 410, 420, 430, 440 or 459.
(PB36)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 250,	PERSON TYPE must equal 08.
(PB49)	PERSON TYPE equals 05 or 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,	at least one PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 211-214 or 219.
(PB50)	PERSON TYPE equals 05 or 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10-12 or 16 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,	at least one PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 460, 465, 510, 781, 782, 791, 792, 794, 795 or 799.

	IF	THEN
(PB52)	PERSON TYPE equals 06 or 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,	at least one PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> should equal <b>610</b> .
(PB59)	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> equals 16, and PERSON TYPE equals 05 or 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 459.
(PB60)	PERSON TYPE equals 05 or 08, and DRIVER PRESENCE equals 0 for the motor vehicle which strikes the non-motorist,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 220.

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## **INJURY SEVERITY**

**FORMAT:** 1 numeric

**SAS NAME:** Person.Inj\_Sev

**ELEMENT VALUES:**

- 0 No Apparent Injury (O)
- 1 Possible Injury (C)
- 2 Suspected Minor Injury (B)
- 3 Suspected Serious Injury (A)
- 4 Fatal Injury (K)
- 5 Injured, Severity Unknown
- 6 Died Prior to Crash\*
- 9 Unknown

**Definition:** This element describes the severity of the injury to this person in the crash.

**Remarks:**

This elements values and remarks are identical to Person Level (MV Occupant) Level element P8. Please see page [711](#)for remarks.

**Consistency Checks:**

	IF	THEN
(1R0P)	SEATING POSITION equals 51, and BODY TYPE equals 50-52, 55, 58, 59,	INJURY SEVERITY must not equal 0, 9.
(1R1P)	If DIED AT SCENE/EN ROUTE equals 7, 8,	INJURY SEVERITY must equal 4.
(1U1F)	INJURY SEVERITY equals 4,	DEATH DATE must not equal 88888888.
(1U2F)	INJURY SEVERITY equals 4,	DEATH TIME must not equal 8888.
(2U1F)	INJURY SEVERITY is not equal to 4,	DEATH DATE must equal 88888888.
(2U2F)	INJURY SEVERITY is not equal to 4,	DEATH TIME must equal 8888.
(2U3F)	INJURY SEVERITY equals 3,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 0.
(3P0F)	PERSON TYPE equals 03-08, 10, 19,	INJURY SEVERITY should not equal 6.
(4U0F)	Each original submission must have at least one Person Level form with INJURY SEVERITY coded 4.	

	IF	THEN
(4V1F)	INJURY SEVERITY equals 4,	DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME.
(7E0P)	INJURY SEVERITY equals 4,	DEATH CERTIFICATE NUMBER must NOT equal 0000-00-000000.
(7E1P)	INJURY SEVERITY equals 4,	RACE must not equal 00.
(7E2P)	INJURY SEVERITY equals 4,	HISPANIC ORIGIN must not equal 00.
(7E3P)	INJURY SEVERITY does not equal 4,	RACE AND HISPANIC ORIGIN must equal 00.
(7F0P)	DEATH CERTIFICATE NUMBER is not blank or 0000-00-000000,	INJURY SEVERITY must equal 4.
(7F1P)	RACE equals 00,	INJURY SEVERITY must not equal 4.
(7F2P)	HISPANIC ORIGIN equals 00,	INJURY SEVERITY must not equal 4.
(7F3P)	RACE is not equal to 00, and HISPANIC ORIGIN is not equal to 00,	INJURY SEVERITY must equal 4.
(7R0P)	FATAL INJURY AT WORK equals 0, 1, 9,	INJURY SEVERITY must equal 4.
(7W0P)	FATAL INJURY AT WORK equals 8	INJURY SEVERITY must not equal 4.
(FP8F)	INJURY SEVERITY is blank, case status is flawed.	
(P071)	PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	ALCOHOL TEST STATUS should not equal 9, ALCOHOL TEST TYPE should not equal 99, and ALCOHOL TEST RESULT should not equal 99. POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 8.
(P072)	PERSON TYPE equals 02, 03, and INJURY SEVERITY equals 0, and ALCOHOL TEST RESULT equals 96,	
(P073)	PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	DRUG TEST STATUS should not equal 9 and any DRUG TEST TYPE should not equal 9, and any DRUG TEST RESULTS should not equal 999. FATAL INJURY AT WORK should equal 0. TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0. FATAL INJURY AT WORK should equal 1.
(P1A0)	AGE is less than 012, and INJURY SEVERITY equals 4,	
(P090)	INJURY SEVERITY equals 0,	
(P130)	BODY TYPE equals 60-67, 71, 72, 78, 79, and PERSON TYPE equals 01, 03, and INJURY SEVERITY equals 4,	
(P300)	POLICE REPORTED ALCOHOL INVOLVEMENT equals 1, and INJURY SEVERITY equals 4,	ALCOHOL TEST STATUS should not equal 0, 1.
(P53P)	INJURY SEVERITY equals 0-3, 5, 6,	DIED AT SCENE/EN ROUTE must equal 0.

IF	THEN
(U160) UNLIKELY: INJURY SEVERITY equals 6.	
(U350) UNLIKELY: INJURY SEVERITY equals 1-6, and SEATING POSITION equals 98.	

**Consistency Check (GES Only):**

IF	THEN
(5A4P) FINAL STRATUM equals 1,	there should exist: 1) at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 4 for at least one occupant of that vehicle; or 2) one and only one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 3 for at least one occupant of that vehicle; or 3) 2 or more vehicles where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and at least 2 vehicles where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 3 for at least one occupant of a vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2.
(5A5P) FINAL STRATUM equals 5,	there should exist at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 1, 2, 3 or 5 for at least one occupant of that vehicle.
(5A6P) FINAL STRATUM equals 2,	there 1) should exist at least one vehicle where UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2; or 2) INJURY SEVERITY should equal 1-5 for at least one person in the crash.

<b>IF</b>	<b>THEN</b>
(5A7P) FINAL STRATUM equals 3,	INJURY SEVERITY must equal 2-4 for at least one person in the crash.
(5A8P) FINAL STRATUM equals 4,	INJURY SEVERITY must not equal 2-4 for any person in the crash.
(5A9P) FINAL STRATUM equals 4, and INJURY SEVERITY equals 1,	there should exist no vehicles where BODY TYPE equals 60-79, and UNIT TYPE equals 1.

**Consistency Check (FARS Only):**

<b>IF</b>	<b>THEN</b>
(4U0F) Each original submission must have at least one Person Level form with INJURY SEVERITY coded 4.	

## **PEDESTRIAN/BIKE TYPING**

**FORMAT:** Elements Completed in MDE

**SAS NAME:** Various

**Definition:** This element describes, through a series of on-screen prompts, the sequence of events and precipitating actions leading to crashes between motor vehicles and pedestrians or bicyclists.

**Remarks:**

Pedestrian and Bicycle Crash Type describes the pre-crash actions of the involved parties to better define the sequence of events and precipitating actions leading to crashes between motor vehicles and pedestrians or bicyclists.

During the 1970s, the National Highway Traffic Safety Administration developed methodologies for *typing* pedestrian and bicycle crashes. In the 1990s, the methodologies were applied to more than 8,000 pedestrian and bicycle crashes in six States. The results provided a representative summary of the distribution of crash types experienced by pedestrians and bicyclists and, over time, this method has evolved and was refined. Pedestrian/Bike typing is offered as a tool to help overcome hindrances to the development of effective countermeasures to prevent bicyclist and pedestrian crashes

In FARS and GES, Pedestrian and Bicycle Crash Typing is accomplished through a software application so that by simply following on-screen prompts and clicking on choices, the analyst/coder successfully enters data into the file without actually doing any coding.

Since data input is software driven, elements, attributes and remarks are not presented here in the printed manual. The data entry system automatically presents the application at the appropriate time when a non-motorist with an appropriate person type is entered.

The Pedestrian/Bike Typing application is presented for the following person types:

- **Pedestrian,**
- **Persons on Personal Conveyances,**
- **Bicyclist,**
- **Other Cyclist.**

The Pedestrian/Bike Typing elements and attributes definitions are available in Appendix 3 of the electronic version of the 2011 FARS/NASS GES Coding and Validation Manual.

**Consistency Checks:**

	IF	THEN
(1PK2)	<b>NON-MOTORIST LOCATION AT TIME OF CRASH equals 21,</b>	<b>SIDEWALK PRESENT must equal 1.</b>
(1PK3)	<b>NON-MOTORIST LOCATION AT TIME OF CRASH equals 01 or 10,</b>	<b>MARKED CROSSWALK PRESENT must equal 1.</b>
(FP9F)	PERSON TYPE equals 05, 06, 07, 08 and the PEDESTRIAN/ CRASH TYPE equals blank, case status is flawed.	PERSON TYPE equals 05, 06, 07, 08 and the PEDESTRIAN/ CRASH TYPE equals blank, case status is flawed.
(PB00)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 110-910,	at least one SEQUENCE OF EVENTS for the striking vehicle must equal 08 or 15.
(PB02)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 111-980,	at least one SEQUENCE OF EVENTS for the striking vehicle must equal 09.
(PB04)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> for a person involved in the first harmful event equals 211, 212, <b>461</b> , 465, 680, 830, 890, 900 or 910,	RELATION TO JUNCTION (b) must not equal 02. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).
(PB05)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> for a person involved in the first harmful event equals 311, 312 or 313,	RELATION TO TRAFFICWAY must equal 01 or 11. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).
(PB06)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 730,	TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-03.
(PB07)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLE</b> for a person involved in the first harmful event equals 311, 312, <b>313</b> , 321, 322 or <b>323</b> ,	RELATION TO JUNCTION (b) must equal 04 or 08. Note: this edit is restricted to vehicles which are involved in only one event with bicyclist(s)
(PB08)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> for a person involved in the first harmful event equals 141-144, 147, 151-157 or 159,	RELATION TO JUNCTION (b) must equal 02 or 03. Note: this edit is restricted to vehicles which are involved in only one event with bicyclist(s).
(PB09)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 141, 143, 151-158, 217 or 218,	TRAFFIC CONTROL DEVICE for the striking vehicle must not equal 00.
(PB10)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 151, 156, 157, 217 or 218,	TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-04.

	IF	THEN
(PB11)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 143 or 154,	TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-04, <b>08</b> , 20, 21, 28 or 29.
(PB12)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> for a person involved in the first harmful event equals 510, 520 or 590,	RELATION TO TRAFFICWAY must not equal 01 or 11. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).
(PB15)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 910,	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must equal 03.
(PB16)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 142, 144, 147, 153, 155, 156, 157, 159, 311, 312, <b>313</b> , 318, 319 or 357,	at least one <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> must equal 02.
(PB17)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> for a person involved in the first harmful event equals 211-214 or 219,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, 13 or 97. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).
(PB18)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals <b>742</b> ,	at least one <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> must equal 01.
(PB19)	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> equals 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> must not equal 510, 520, 590, 830 or 890.
(PB20)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 510, 520 or 590,	at least one <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must equal 02.
(PB21)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 160,	TRAFFIC CONTROL DEVICE for the striking vehicle should equal 00.
(PB22)	SCHOOL BUS RELATED equals 1, and PERSON TYPE equals 05 or 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 342.
(PB23)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 342, and PERSON TYPE equals 05 or 08,	SCHOOL BUS RELATED should equal 1.
(PB24)	PERSON TYPE equals 05 or 08, and NON-MOTORIST LOCATION AT TIME OF CRASH equals 14, 16, 20, 21, 22, 24 or 25,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 230, 320, 410, 420, 430, 440, 459, 510, 520, 590, 830 or 890.

	IF	THEN
(PB25)	PERSON TYPE equals 05 or 08, and NON-MOTORIST LOCATION AT TIME OF CRASH equals 01-03 or 09,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 690, 710, 730, 741, 742, 760, 770, 781, 782, 791, 792, 794, 795 or 799.
(PB26)	<b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> equals 02, and PERSON TYPE equals 06 or 07,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> should equal 142, 144, 147, 153, 155, 156, 157, 159, 311, 312, <b>313</b> , 318, 319 or 357.
(PB27)	<b>NON-MOTORIST ACTION/CIRCUM- STANCES</b> equals 05, and PERSON TYPE equals 05 or 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 410 or 420.
(PB28)	<b>NON-MOTORIST ACTION/CIRCUM- STANCES</b> equals 06, and PERSON TYPE equals 05 or 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 430 or 440.
(PB29)	<b>NON-MOTORIST ACTION/CIRCUM- STANCES</b> equals 04, and PERSON TYPE equals 05 or 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 410, 420, 430, 440 or 459.
(PB30)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 220,	at least one DRIVER PRESENCE must equal 0 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. at least one DRIVER'S VISION OBSCURED BY must equal 06 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB31)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 147, 157 or 357,	at least one DRIVER'S VISION OBSCURED BY must not equal 00 or 95 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB32)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 742,	at least one DRIVER'S VISION OBSCURED BY must not equal 00 or 95 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. DRIVER'S VISION OBSCURED BY for the striking vehicle must not equal 06.
(PB33)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 156,	PEDESTRIAN/ BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> must not equal 320, 330, 360, 680, 830, 890, 900, or 910.
(PB34)	NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 01, and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02,	

	IF	THEN
(PB35)	NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 01, and FIRST HARMFUL EVENT equals 08 and RELATION TO JUNCTION (b) equals 02,	PEDESTRIAN/ BIKE TYPING - <b>CRASH LOCATION - PEDESTRIAN</b> must equal 1.
(PB36)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 250,	PERSON TYPE must equal 08.
(PB37)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 311, 312 or 313,	at least one <b>NON-MOTORIST ACTION/ CIRCUMSTANCES</b> must equal 08 or 10.
(PB38)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 410 or 420, and PEDESTRIAN/BIKE TYPING - PEDESTRIAN POSITION does not equal 5,	at least one <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must equal 05.
(PB39)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 430 or 440, and PEDESTRIAN/BIKE TYPING - PEDESTRIAN POSITION does not equal 5,	at least one <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must equal 06.
(PB40)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLE</b> equals 610,	at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, or 13 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08 or 09 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB41)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 215,	at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08 or 09 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB42)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 111, 211 or 212,	at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 11 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.

	IF	THEN
(PB43)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 112, 151, 213, 214, 217 or 218,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. EMERGENCY MOTOR VEHICLE USE should equal 2-6 at least one.
(PB44)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 240,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 11 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB45)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 781 or 782,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 11 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB46)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 221-225,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 01 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON- MOTORIST. at least one PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 211-214 or 219.
(PB49)	PERSON TYPE equals 05 or 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,	at least one PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 460, 465, 510, 781, 782, 791, 792, 794, 795 or 799.
(PB50)	PERSON TYPE equals 05 or 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10-12 or 16 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON- MOTORIST,	at least one PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> should equal 610.
(PB52)	PERSON TYPE equals 06 or 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,	

	IF	THEN
(PB56)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 791, 792, 794, 795,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
(PB59)	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> equals 16, and PERSON TYPE equals 05 or 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 459.
(PB60)	PERSON TYPE equals 05 or 08, and DRIVER PRESENCE equals 0 for the motor vehicle which strikes the non-motorist,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 220.
(PB61)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 220,	DRIVER PRESENCE should equal 0 for the motor vehicle striking the non-motorist.
(PB62)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 220,	at least one NON-MOTORIST ACTION/CIRCUMSTANCES PRIOR TO CRASH must equal 12.
(PB63)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 230,	at least one RELATED FACTORS - CRASH LEVEL should equal 19 or 23.
(PB66)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN</b> equals 1,	<b>NON-MOTORIST LOCATION AT TIME OF CRASH</b> must equal 01, 02, 03, 09, 16 or 22.
(PB67)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN</b> equals 2,	<b>NON-MOTORIST LOCATION AT TIME OF CRASH</b> must equal 10, 11, 13, 14, 16, 20-25, 28, 98, 99.
(PB68)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN</b> equals 3,	<b>NON-MOTORIST LOCATION AT TIME OF CRASH</b> must equal 10, 11, 13, 14, 16, 20-24, 28, 98, 99.
(PB69)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN</b> equals 4,	<b>NON-MOTORIST LOCATION AT TIME OF CRASH</b> must equal 24, 25, 98, 99.
(PB70)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN</b> equals 9,	<b>NON-MOTORIST LOCATION AT TIME OF CRASH</b> must equal 16, 22, 24, 98 or 99.
(PB71)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE</b> equals 1,	<b>NON-MOTORIST LOCATION AT TIME OF CRASH</b> must equal 01, 02, 03, 09, 16 or 22.
(PB72)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE</b> equals 2,	<b>NON-MOTORIST LOCATION AT TIME OF CRASH</b> must equal 10, 11, 13, 14, 16, 20, 21, 22, 23, 24, 25, 28, 98, 99.

	IF	THEN
(PB73)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 3,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20, 21, 22, 23, 24, 28, 98, 99.</b>
(PB74)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 4,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24, 25, 98, 99.</b>
(PB75)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 9,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 16, 22, 24, 98 or 99.</b>
(PB76)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 01,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 03 or 16.</b>
(PB77)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 02,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02 or 10.</b>
(PB78)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 03,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 11, 13.</b>
(PB79)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 04,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 14, 16, 20, 98 or 99.</b>
(PB80)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 05,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 21, 23, 24, 98 or 99.</b>
(PB81)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 06,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 20, 22, 28, 98 or 99.</b>
(PB82)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 07 or 08,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.</b>
(PB83)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 09,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 09, 20, 22, 28, 98 or 99.</b>
(PB84)	<b>PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 1,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 03, 09, 11 or 13.</b>
(PB85)	<b>PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 2,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 14, 16 or 20.</b>
(PB86)	<b>PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 3,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 10, 21, 23, 98 or 99.</b>
(PB87)	<b>PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 4,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24.</b>
(PB88)	<b>PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 5 or 6,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.</b>

	IF	THEN
(PB89)	PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 8,	NON-MOTORIST LOCATION AT TIME OF CRASH must equal 20, 22, 28, 98 or 99.
(PB90)	PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 9,	NON-MOTORIST LOCATION AT TIME OF CRASH must equal 22, 98 or 99.
(PB91)	PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 1,	PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 01, 02 or 09.
(PB92)	PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 2,	PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 03, 04, 05, 06, 07, 08 or 09.
(PB93)	PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 3,	PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 02, 03, 04, 05, 06, or 09.
(PB94)	PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 4,	PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 07, 08 or 09.
(PB95)	PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 9,	PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 02, 05 or 09.
(PB96)	PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 1,	PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 1, 2, 3, 8 or 9.
(PB97)	PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 3,	PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 1, 2, 3, 4, 8 or 9.
(PB98)	PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 4,	PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 4, 5, 6 or 9.
(PB99)	PEDESTRIAN/ BIKE TYPING - CRASH LOCATION-BICYCLE equals 9,	PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 9.
(PBA0)	PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 111, 211, 212, and VEHICLE NUMBER - VEHICLE LEVEL equals NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11.

	<b>IF</b>	<b>THEN</b>
(PBA1)	PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 112, 151, 213, 214, 217 or 218, and VEHICLE NUMBER - VEHICLE LEVEL equals NUMBER OF MOTOR VEHICLE STRIKING NON- MOTORIST,	PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10.

## **NON-MOTORIST LOCATION AT TIME OF CRASH**

**FORMAT:** 2 numeric

**SAS NAME:** Person.LOCATION

**ELEMENT VALUES:**

- 1     **At** Intersection-In Marked Crosswalk
- 2     **At** Intersection-Unmarked / **Unknown if Marked** Crosswalk
- 3     **At** Intersection-Not In Crosswalk
- 9     **At** Intersection-Unknown Location
- 10    **Not At** Intersection-In Marked Crosswalk
- 11    **Not At** Intersection-On Roadway, Not in Marked Crosswalk
- 13    **Not At** Intersection-On Roadway, Crosswalk Availability Unknown
- 14    Parking Lane/Zone
- 16    Bicycle Lane
- 20    Shoulder/Roadside
- 21    Sidewalk
- 22    Median/Crossing Island
- 23    Driveway Access
- 24    **Shared-Use Path**
- 25    Non-Trafficway Area
- 28    Other
- 98    Not Reported
- 99    Unknown Location

**Definition:** This element identifies the location of the non-motorist with respect to the roadway at the time of the crash.

**Remarks:**

***"At intersection" means: The person is on a roadway (travel lane) either (1) in the intersection, (2) in an area between a crosswalk and the perimeter of the intersection, or (3) in a crosswalk (whether marked or unmarked) adjacent to an intersection. If there are no crosswalks, "at intersection" means only the intersection, which is the area embraced within the prolongation of the lateral curb lines or, if none, the lateral boundary lines of the roadways.***

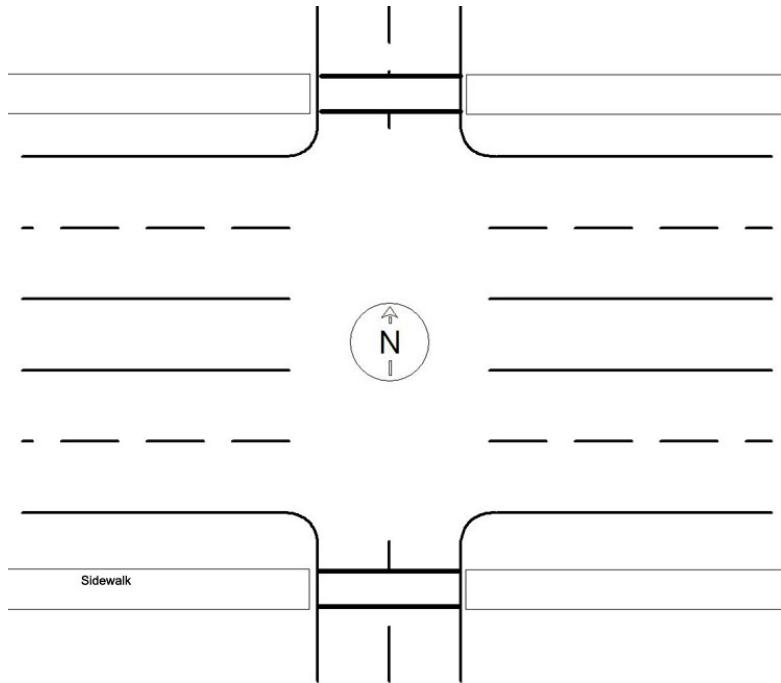
Crosswalk is (1) that part of a roadway at an intersection included within the connections of the lateral lines of the sidewalks on opposite sides of the highway measured from the curbs or, in the absence of curbs, from the edges of the traversable roadway, and in the absence of a sidewalk on one side of the highway, that part of the highway included within the extension of the lateral line of the existing sidewalk to the side of the highway without the sidewalk, with such extension forming a right angle to the centerline of the highway; or (2) Any portion of a

roadway at an intersection or elsewhere distinctly indicated for pedestrian crossing by lines or other markings on the surface of the roadway placed in accordance with the provisions in the Manual of Uniform Traffic Control Devices.

Intersection is an area that (1) contains a crossing or connection of two or more roadways not classified as driveway access (2) is embraced within the prolongation of the lateral curb lines, or, if none, the lateral boundary lines of the roadways.

**1 (At Intersection-In Marked Crosswalk)** is *used when a person is in* that portion of a roadway at an intersection that is distinctly indicated for pedestrian crossing by lines or other markings on the surface of the roadway. **This attribute includes shared-use path crossings.** This does not include crosswalks located in mid-blocks.

**2 (At Intersection-In Unmarked/Unknown if Marked Crosswalk)** is *used when the person is “at intersection” within the prolongations of the sidewalk edges but there are no lines or other markings on the surface of the roadway (unmarked crosswalk). There must be a sidewalk or improved path present on one side of the leg of the trafficway that this person is crossing for there to be an unmarked crosswalk. If there are no sidewalks, there are no crosswalks. If it is unknown if the crosswalk is marked or unmarked, default to unmarked.*



*In a 4 four-way intersection with sidewalks running along the East/West trafficway and no sidewalks on the North/South trafficway, the intersection area would only have 2 crosswalks. The two that allow crossing of the North/South trafficway.*

**3 (At Intersection-Not In Crosswalk)** refers to a person in a travel lane that is not using an available crosswalk or there is not a crosswalk at this location.

**9 (At Intersection-Unknown Location)** is used when a person is known to be at an intersection, ***but it cannot be determined whether the person was in a crosswalk area (marked or unmarked) or the intersection.***

**10 (Not at Intersection-In Marked Crosswalk)** is used when a person is in the portion of the roadway, not at an intersection, that is distinctly indicated for pedestrian crossing by lines or other markings on the surface of the roadway. (i.e., the case identifies a mid-block crosswalk exists and the person is using it.) ***This attribute includes shared-use path crossings.***

**11 (Not At Intersection-On Roadway, Not in Marked Crosswalk)** is used when a person is in the portion of the roadway, not at an intersection, and either:

- (1) the case identifies a mid-block crosswalk exists and the person is not using it, or
- (2) there is not a crosswalk at this location (e.g., the person is jaywalking when a mid-block crosswalk is available), or
- (3) the person is crossing at a location where a mid-block crosswalk would not be expected to exist (e.g., a rural roadway or interstate).

**13 (Not At Intersection - On Roadway, Crosswalk Availability Unknown)** is used when it cannot be determined if a crosswalk was available. (e.g., there is some information (possibly conflicting) that leads you to believe that there may be a mid-block crosswalk at this location, ***but*** there is not sufficient information about the location to be able to make a determination.)

**14 (Parking Lane/Zone)** refers to a person in an area on the roadway, or next to the roadway, on which parking is permitted in marked or unmarked spaces. This includes curbside and edge of roadway parking (for example, legal residential parking, city-street parking, etc.). Sometimes a strip of roadway can be designated for parking at certain hours of the day (parking lane) and for regular travel at other hours (travel lane). This code should NOT be used during hours when parking is NOT permitted (see **11 (Not At Intersection-On Roadway, Not in Marked Crosswalk)**).

**16 (Bicycle Lane)** is used when a person is adjacent to travel lanes in a bikeway which has been designated for preferential or exclusive use by pedalcyclists through striping, signage, or pavement markings. This attribute includes pedalcyclists persons in a marked bicycle lane in an intersection (i.e., do not use 03 (At Intersection-Not In Crosswalk)). For persons other than pedalcyclists in a marked bicycle lane in an intersection, use 03 (At Intersection-Not in Crosswalk). If you do not know if there is a marked bike lane through the intersection then default to 03 (At Intersection-Not In Crosswalk).

**20 (Shoulder/Roadside)** - Shoulder is that part of a trafficway contiguous with the roadway for emergency use, for accommodation of stopped motor vehicles, and lateral support of the roadway structure. Roadside is the outermost part of the trafficway from the property line or other boundary in to the edge of the first road. For persons on a sidewalk on the roadside select **21 (Sidewalk)**.

**21 (Sidewalk)** is any improved surface primarily constructed for use by pedestrians. Do not select this attribute for sidewalks within a **23 (Driveway Access)**, **22 (Median/Crossing Island)**, **25 (Non-Trafficway Area)**.

**22 (Median/Crossing Island) is used when a person is in a median or crossing island.**

Median is an area of trafficway between parallel roads separating travel in opposite directions. A median should be four or more feet wide. Crossing Island is a cement or grassy area in the middle of a trafficway. **This attribute excludes crosswalk areas that pass through a median, crossing, or traffic island (i.e., select 01 (At Intersection-In Marked Crosswalk), 02 (At Intersection-In Unmarked/Unknown if Marked Crosswalk), or 10 (Not At Intersection-In Marked Crosswalk).)**

**23 (Driveway Access)** is a portion of the trafficway at the end of a driveway providing access to property adjacent to a trafficway. **This includes the driveway crossing which is the portion of the driveway access where a sidewalk or shared-use path crosses over the driveway access.****24 (Shared-Use Path)** is **used when a person on** a bikeway physically separated from motorized vehicular traffic by an open space or barrier and either within the highway right-of-way or an independent right-of-way. Shared-Use Paths will also be used by pedestrians, skaters, wheelchairs, joggers and other non-motorized users. **Shared-use path crossings are coded under 01 (At Intersection-In Marked Crosswalk) or 10 (Not At Intersection-In Marked Crosswalk).****25 (Non-Trafficway Area)** is not physically located on any land way open to the public as a matter of right or custom for moving persons or property from one place to another. For example: a person in a parking lot, a yard, a person in a closed portion of a work zone, or in a house**28 (Other)** is used **when a person is at** a location stated in the case materials **that is** not reflected in the listed attributes for this data element. **These would be persons within the trafficway (i.e., not element value 25 (Non-Trafficway Area)). Examples include central islands of rotary intersections, gores, separators or directional/channelizing islands.****98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported".

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown Location)** is used when the case materials state that the location of the non-motorist was unknown at the time of the crash.

\*Note: In 2011 GES adopted the FARS element format. Prior to 2011 the GES Non-Motorist Location at Time of Crash data element contained one additional attribute - **0 (Motor Vehicle Occupant)**.

### **Consistency Checks:**

<b>IF</b>	<b>THEN</b>
(1P2F) PERSON TYPE equals 10,	NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.
(1P9G) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 20,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must not equal 02-04, 15.
(1P0H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must not equal 02-04, 07-10, 15, 16, 20.
(1P1H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 22,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must not equal 01, 02, 04, 07, 08, <b>11</b> , 15, 20.
(1P2H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 23,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must not equal 12, 15.
(1P3H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 24,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must not equal 01, 03, 04, 10, <b>11</b> .
(1P4H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 25,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must not equal 01-04, <b>10-12</b> , 15-17, 20.
(1P5H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 28, 98, 99,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 01, 03, 04, <b>10-12</b> , 15, 16, 20.
(1P6H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 16,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 04, 16.
(1P7H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 01, 05, <b>11</b> , 12, 17.
(1P8H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 23,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 02.
(1P9H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 24,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 02, 05, 12, 15, 16.
(1PH0) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 25,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 07-09.

IF	THEN
(1PK2) <b>NON-MOTORIST LOCATION AT TIME OF CRASH equals 21,</b>	<b>SIDEWALK PRESENT must equal 1.</b>
(1PK3) <b>NON-MOTORIST LOCATION AT TIME OF CRASH equals 01 or 10,</b>	<b>MARKED CROSSWALK PRESENT must equal 1.</b>
(440F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 01,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 01-03, 09-11, 13, 16, 23, 98 or 99.
(450F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 07,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 14.
(460F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 02,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 02, 20.
(470F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 03, 08, 10,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 20, 22, 98, 99.
(480F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 04, 06,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 16, 20, 21, 24, 25, 28, 98, 99.
(490F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 05,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 24, 25.
(530F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 99,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 98, 99.
(531F) FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 11,	there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 11.
(A61G) the FIRST HARMFUL EVENT equals 08, and PERSON TYPE equals 05, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.

	IF	THEN
(A61H)	the FIRST HARMFUL EVENT equals 09, and PERSON TYPE equals 06, 07, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.
(A61J)	the FIRST HARMFUL EVENT equals 15, and PERSON TYPE equals 08, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.
(A61K)	the FIRST HARMFUL EVENT equals 49, and PERSON TYPE equals 04, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event,	CRASH TYPE should not equal 13 for this vehicle.
(PB24)	PERSON TYPE equals 05 or 08, and NON-MOTORIST LOCATION AT TIME OF CRASH equals 14, 16, 20, 21, 22, 24 or 25,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 230, 320, 410, 420, 430, 440, 459, 510, 520, 590, 830 or 890.
(PB25)	PERSON TYPE equals 05 or 08, and NON-MOTORIST LOCATION AT TIME OF CRASH equals 01-03 or 09,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 690, 710, 730, 741, 742, 760, 770, 781, 782, 791, 792, 794, 795 or 799.
(PB66)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 1,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 03, 09 or 22.</b>
(PB67)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 2,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20-25, 28, 98, 99.</b>
(PB68)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 3,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20-24, 28, 98, 99.</b>
(PB69)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 4,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24, 25, 98, 99.</b>

	IF	THEN
(PB70)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 9,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 16, 22, 24, 98 or 99.</b>
(PB71)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 1,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 03, 09, 16 or 22.</b>
(PB72)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 2,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20, 21, 22, 23, 24, 25, 28, 98, 99.</b>
(PB73)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 3,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20, 21, 22, 23, 24, 28, 98, 99.</b>
(PB74)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 4,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24, 25, 98, 99.</b>
(PB75)	<b>PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 9,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 16, 22, 24, 98 or 99.</b>
(PB76)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 1,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 03.</b>
(PB77)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 2,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02 or 10.</b>
(PB78)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 3,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 11, 13.</b>
(PB79)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 4,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 14, 16, 20, 98 or 99.</b>
(PB80)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 5,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 21, 23, 24, 98 or 99.</b>
(PB81)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 6,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 20, 22, 28, 98 or 99.</b>
(PB82)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 7 or 8,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25</b>
(PB83)	<b>PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 9,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 09, 20, 22, 28, 98 or 99.</b>
(PB84)	<b>PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 1,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 03, 09, 11 or 13.</b>
(PB85)	<b>PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 2,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 14, 16 or 20.</b>

	IF	THEN
(PB86)	<b>PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 3,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 10, 21, 23, 98 or 99.</b>
(PB87)	<b>PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 4,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24.</b>
(PB88)	<b>PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 5 or 6,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.</b>
(PB89)	<b>PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 8,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 20, 22, 28, 98 or 99.</b>
(PB90)	<b>PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 9,</b>	<b>NON-MOTORIST LOCATION AT TIME OF CRASH must equal 22, 98 or 99.</b>
(U150)	UNLIKELY: NON-MOTORIST LOCATION AT TIME OF CRASH equals 16, 25.	

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## **NON-MOTORIST ACTION/CIRCUMSTANCES**

**FORMAT:** 2 numeric. Select all that apply.

**SAS NAME:** nmprior.MPR\_ACT

**ELEMENT VALUES:**

- 1 Going To or From School (K-12)
- 2 Waiting to Cross Roadway
- 3 Crossing Roadway
- 4 Jogging/Running
- 5 Movement Along Roadway with Traffic (In or Adjacent to Travel Lane)
- 6 Movement Along Roadway Against Traffic (In or Adjacent to Travel Lane)
- 16 Movement Along Roadway – Direction Unknown
- 8 In Roadway – Other (Working, Playing, etc.)
- 9 Adjacent to Roadway (e.g., Shoulder, Median)
- 10 Working in Trafficway (Incident Response)
- 11 Entering/Exiting **Parked or Stopped** Vehicle
- 12 Disabled Vehicle Related (Working on, Pushing, Leaving/Approaching)
- 14 Other (**Specify:**)
- 98 Not Reported
- 99 Unknown

**Definition:** This element describes the action(s) of the non-motorist ***at the time of*** their involvement in the crash.

**Remarks:**

Select all that apply.

**1 (Going To or From School [K-12])** includes person age 5-18 or an adult supervising persons age 5 - 18 going to or from a school for any reason. Examples are going to a school dance, sports practice or extracurricular activities.

**2 (Waiting to Cross Roadway)** is used when the non-motorist is near the curb or the roadway edge waiting to cross a roadway anywhere along the roadway. *If the pedestrian began to cross the roadway, stopped, and then was struck select 03 (Crossing the Roadway). For person's adjacent to the roadway where their intent to cross is not identified, use 09 (Adjacent to Roadway).*

**3 (Crossing Roadway)** is used when the non-motorist was moving across **or in** the travel lanes with the goal of crossing the roadway.

**4 (Jogging/Running)** is used when the pedestrian was running or jogging.

**5 (Movement Along Roadway with Traffic [In or Adjacent to Travel Lane])** is used when the non-motorist **was moving** in the same direction **as the flow** of traffic, either in the travel lane or adjacent to it (e.g. jogging or walking on shoulder or roadside). **This also includes situations where the person's action/intent was traveling along the roadway. For example a person stopped momentarily when they were struck (e.g., to tie shoes, talk on cell phone) or someone that moved out into the path of a vehicle to avoid an obstacle along the roadside. This may include the roadway edge, shoulder (paved or unpaved), sidewalk, roadside, median or driveway access, etc.**

**6 (Movement Along Roadway Against Traffic [In or Adjacent to Travel Lane])** is used when the non-motorist **was moving** in the opposite direction of **the flow of** traffic (facing oncoming vehicles), either in the travel lane or adjacent to it. (e.g. jogging or walking on shoulder or roadside.) **This also includes situations where the person's action/intent was traveling along the roadway. For example a person stopped momentarily when they were struck (e.g., to tie shoes, talk on cell phone) or someone that moved out into the path of a vehicle to avoid an obstacle along the roadside. This may include the roadway edge, shoulder (paved or unpaved), sidewalk, roadside, median, or driveway access, etc.**

**16 (Movement Along Roadway – Direction Unknown)** is used when the non-motorist **was moving** in or adjacent to a travel lane but their direction with respect to the flow of traffic is unknown. (e.g. jogging or walking on shoulder or roadside.) **This may include the roadway edge, shoulder (paved or unpaved), sidewalk, roadside, median, or driveway access, etc.**

**8 (In Roadway - Other [Working, Playing, Etc.])** is used when the non-motorist was in the roadway but not crossing it. Examples include conducting maintenance, playing in the roadway, operating a snow blower or lawn care equipment, or lying in the roadway. For cases involving a non-motorist working within a closed portion of a work zone area, use attribute **14 (Other)**.

**9 (Adjacent to Roadway [e.g., Shoulder, Median])** is used when the non-motorist was **not moving and** not in the roadway but in an area immediately adjacent to the roadway, such as a median, shoulder, **or** sidewalk.

**10 (Working in Trafficway [Incident Response])** is used when the non-motorist was in the roadway as part of an official response to an incident, such as a firefighter moving between an emergency vehicle and a crash involved vehicle.

**11 (Entering/Exiting Parked/Stopped Vehicle)** is used when a pedestrian was adjacent to a stopped or parked vehicle and in the process of getting into or had just exited that stopped or parked vehicle. This does not include crashes involving pedestrians performing other actions such as crossing the roadway to/from a parked vehicle or other movements that occurred after the pedestrian exited the vehicle.

**12 (Disabled Vehicle Related [Working on, Pushing, Leaving/Approaching])** is used when the pedestrian was outside of a disabled vehicle for any of a number of reasons, including working on it, pushing it, leaving it, or approaching it.

**14 (Other [Specify:])** is used when the actions or circumstances stated in the case materials do not reflect the listed attributes for this data element. This includes non-motorists working within a closed portion of a work zone area.

**\*Note: for attributes with a “Specify:” designation, a fill-in text box will open in MDE. This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.**

### **98 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported**”.

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**99 (Unknown)** is used when the case materials state that the action or circumstances of the non-motorist prior to the crash was unknown.

### **Consistency Checks:**

IF	THEN
(1P3F) PERSON TYPE equals 10,	NON-MOTORIST <b>ACTION/CIRCUMSTANCES</b> must not equal 01-12, 16, and NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must not equal 01-20.
(1P4F) PERSON TYPE equals 04,	NON-MOTORIST <b>ACTION/CIRCUMSTANCES</b> must not equal 04, 12.
(1P5F) PERSON TYPE equals 06-08, 19,	NON-MOTORIST <b>ACTION/CIRCUMSTANCES</b> must not equal 04.

	IF	THEN
(1P7F)	PERSON TYPE equals 04,	NON-MOTORIST <b>ACTION/CIRCUMSTANCES</b> should not equal 10, 11.
(1P8F)	PERSON TYPE equals 06, 07,	NON-MOTORIST <b>ACTION/CIRCUMSTANCES</b> should not equal 10-12.
(1P9F)	PERSON TYPE equals 08,	NON-MOTORIST <b>ACTION/CIRCUMSTANCES</b> should not equal 11.
(1P1G)	PERSON TYPE equals 19,	NON-MOTORIST <b>ACTION/CIRCUMSTANCES</b> should not equal 11, 12.
(4X5F)	NON-MOTORIST <b>ACTION/CIRCUMSTANCES</b> is selected 04,	NON-MOTORIST <b>ACTION/CIRCUMSTANCES</b> attributes 05, 06 or 16 should also be selected.
(4X7F)	any NON-MOTORIST <b>ACTION/CIRCUMSTANCES</b> equals 98 or 99,	only that one code and no other must be coded for this person.
(PB15)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 910,	NON-MOTORIST <b>ACTION/ CIRCUMSTANCES</b> must equal 03.
(PB19)	NON-MOTORIST <b>ACTION/CIRCUMSTANCES</b> equals 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> must not equal 510, 520, 590, 830 or 890.
(PB20)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 510, 520 or 590,	at least one NON-MOTORIST <b>ACTION/ CIRCUMSTANCES</b> must equal 02.
(PB27)	NON-MOTORIST <b>ACTION/CIRCUMSTANCES</b> equals 05, and PERSON TYPE equals 05 or 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 410 or 420.
(PB28)	NON-MOTORIST <b>ACTION/CIRCUMSTANCES</b> equals 06, and PERSON TYPE equals 05 or 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 430 or 440.
(PB29)	NON-MOTORIST <b>ACTION/CIRCUMSTANCES</b> equals 04, and PERSON TYPE equals 05 or 08,	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 410, 420, 430, 440 or 459.
(PB37)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 311, 312 or 313,	at least one NON-MOTORIST <b>ACTION/ CIRCUMSTANCES</b> must equal 08 or 10.
(PB38)	PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 410 or 420,	at least one NON-MOTORIST <b>ACTION/ CIRCUMSTANCES</b> must equal 05.
(PB39)	PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 430 or 440,	at least one NON-MOTORIST <b>ACTION/ CIRCUMSTANCES</b> must equal 06.
(PB58)	NON-MOTORIST <b>ACTION/ CIRCUMSTANCES</b> must not equal 05, 06 or 16 in combination.	

	IF	THEN
(PB59)	NON-MOTORIST <b><i>ACTION/CIRCUMSTANCES</i></b> equals 16, and PERSON TYPE equals 05 or 08,	PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 459.
(PB62)	PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 220,	at least one NON-MOTORIST <b><i>ACTION/CIRCUMSTANCES</i></b> must equal 12.
(PB64)	any NON-MOTORIST <b><i>ACTION/CIRCUMSTANCES</i></b> equals <b><i>03 or 09</i></b> ,	the NON-MOTORIST <b><i>ACTION/CIRCUMSTANCES</i></b> must not also equal 05, 06 or 16 for this person.

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## **NON-MOTORIST CONTRIBUTING CIRCUMSTANCES**

**FORMAT:** 2 numeric. Select all that apply.

**SAS NAME:** nmcrash.MTM\_CRSH

### **ELEMENT VALUES:**

- 1   ***None Noted***
- 2   ***Dart-Out***
- 11   *Dash***
- 2   Failure to Yield Right-Of-Way
- 3   Failure to Obey Traffic Signs, Signals or Officer
- 4   In Roadway Improperly (Standing, Lying, Working, Playing, etc.)
- 5   Entering/Exiting ***Parked or Stopped*** Vehicle
- 6   Inattentive (Talking, Eating, etc.)
- 7   Improper Turn/Merge
- 8   Improper Passing
- 9   Wrong-Way Riding or Walking
- 10   ***Riding*** on Wrong Side of Road
- 12   Improper Crossing of Roadway or Intersection (Jaywalking)
- 13   Failing to Have Lights on When Required
- 14   Operating Without Required Equipment
- 15   Improper or Erratic Lane Changing
- 16   Failure to Keep in Proper Lane or Running Off Road
- 17   Making Improper Entry to or Exit from Trafficway
- 18   Operating in Other Erratic, Reckless, Careless or Negligent Manner
- 19   Not Visible (Dark Clothing, No Lighting, etc.)
- 20   Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle
- 21   Other (***Specify:***)
- 99   Unknown

**Definition:** This element describes the action(s) and/or circumstances of the non-motorist that law enforcement indicated may have contributed to the crash.

### **Remarks:**

- 1 **(None Noted)** is used when ***no contributing circumstances or improper actions are noted by the officer for this non-motorist. "Not Reported" is coded here. If this attribute is used no other attribute may be selected.***
- 2 **(Dart-Out)** is used when a person entered the roadway and was involved in a collision with a vehicle where the driver's view of the person was blocked until an

*instant before impact. A dart-out can only occur if there is some documented visual obstruction (e.g., parked vehicle, building or vegetation).*

**11 (Dash)** is used when a person ran into the roadway and was involved in a collision with a vehicle. There is no mention in the case materials that the driver's view of the person was obstructed. The case materials should state that the person ran.

**Examples of proper use include:**

- A person's activity prior to the crash is jogging or running, but just prior to the impact the non-motorist darted into the roadway.
- Children seen playing in a front yard, who suddenly run into the road to retrieve an object associated with their play (e.g. a ball).

**2 (Failure to Yield Right-of-Way)** is used when a person fails to yield the right-of-way as indicated in the case materials. A citation need not be issued, only that a failure to yield by the person was represented on the PAR through the crash description, diagram, and or coded boxes.

**Examples include:**

- Failure to yield when exiting a driveway.
- Mid-block crossings not at a crosswalk.
- Not clearing an intersection before the light turns green for crossing traffic.
- Failure to yield at an intersection not controlled by a stop sign or flashing red lights.
- A bicyclist which stopped at the stop sign, but did not realize it was a two way stop rather than a 4-way stop control and proceeded into the intersection without yielding to traffic on the through trafficway.

**Failure to obey a traffic control device is coded as 03 (Failure to Obey Traffic Signs, Signals or Officer).**

**3 (Failure to Obey Traffic Signs, Signals or Officer)** is used when a person fails to obey a traffic control device as indicated in the case materials. Examples include: person does not obey traffic signs, traffic control devices (including pedestrian signals), traffic officers or safety zones; or passes around railroad gates.

**4 (In Roadway Improperly [Standing, Lying, Working, Playing, etc.])** is used when a person was indicated to have been in the roadway improperly other than making an improper crossing as in code 12 (Improper Crossing of Roadway or Intersection [Jaywalking]).

**Examples include:**

- Playing in the road before the vehicle arrived. The person must not have just run into the roadway after a ball, which would be coded 01 (Dart-Out) or 11 (Dash).
- Working in the road other than because of the requirement of his/her job, (e.g., someone walking backwards into the roadway with a snow blower or lawn care equipment).
- In the street voluntarily, such as a civilian directing traffic at the scene of a crash.

- *Attempting to hail a cab, flag down assistance, or flag down a transit bus between designated stops.*
- *Sitting, getting up, asleep/unconscious, kneeling, etc.*

**5 (Entering/Exiting Parked or Stopped Vehicle)** is used when a pedestrian was adjacent to a stopped or parked vehicle and in the process of getting into or had just exited that stopped or parked vehicle. This does not include crashes involving pedestrians performing other actions such as crossing the roadway to/from a parked vehicle or other movements that occurred after the pedestrian exited the vehicle.

**6 (Inattentive [Talking, Eating, etc.])** is used when the case materials specifically state a person is inattentive, lost in thought or distracted. Examples include using any electronic devices (cell phone, video game, e-reader), using earbuds on a music player while jogging, chatting with a neighbor, caring for a baby in a stroller, admiring a garden, etc.

**7 (Improper Turn/Merge)** is used when the case materials indicate the bicyclist/operator made an improper turn or merge. Examples of an improper turn include too wide right or left turns, making a right turn from the left lane, a left turn from the right lane or unsafe U-turns. An example of an improper merge is when the bicycle lane ends and the bicyclist merges into the path of a vehicle without leaving sufficient space.

**8 (Improper Passing)** is used when the case materials indicate the bicyclist/operator made an improper passing maneuver. The bicyclist/operator may be passing a motor vehicle or another bicyclist. Actions include passing on the right, and where prohibited by signs, pavement markings, or a stopped school bus, (i.e., mainly violations as designated by traffic controls). Improper passing which is based on faulty judgment errors such as insufficient distance, or inadequate visibility are captured by 20 (Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle).

**9 (Wrong-Way Riding or Walking)** is used when a person was identified in the case materials to have been traveling the wrong way.

**10 (Riding on Wrong Side of Road)** is used when a bicyclist was identified in the case materials to have been traveling on the wrong side of the road.

**12 (Improper Crossing of Roadway or Intersection [Jaywalking])** is used when a person is engaged in crossing a road but is not doing so properly. This includes mid-block crossings outside a crosswalk and crossing at an intersection by cutting on a diagonal through it. The officer's representation of either circumstance on the diagram or in the narrative substantiates the use of this attribute. The person may be engaged in other activities such as the continuation of jogging/running or a "sudden or impulsive" dart, run, etc. This attribute should not be used in conjunction with 04 (In Roadway Improperly [Standing, Lying, Working, Playing, etc.]).

**13 (Failing to Have Lights on When Required)** is used when the case materials indicate the operator of a bicycle, animal-drawn conveyance or personal conveyance failed to have lights on when required. This also includes not having lights available to turn on, and may be used with 14 (Operating Without Required Equipment).

**14 (Operating Without Required Equipment)** is used when the case materials indicate that the bicycle, animal-drawn conveyance or person conveyance, was being operated without the proper equipment such as headlights, taillights, etc. Helmet use is captured under NM13 Non-Motorist Safety Equipment.

**15 (Improper or Erratic Lane Changing)** is used when a bicyclist, operator of horse-drawn vehicle, roller blader, or skateboard rider was weaving in and out of traffic. This includes maneuvering between vehicles and in-and-out of a bike lane.

**16 (Failure to Keep in Proper Lane or Running Off Road)** is used when a bicyclist/operator fails to stay in the proper lane or runs off the road. For example, a bicyclist fails to keep in bicycle lane or operator of horse-drawn vehicle goes straight in a turn lane. This includes running into a median or drifting into a parking lane.

**18 (Operating in Other Erratic, Reckless, Careless or Negligent Manner)** is used when explicitly stated in the case materials. Examples include bicyclists doing wheelies, attempting to grab on to a vehicle for motion (“skitching”), or skateboard racing.

**19 (Not Visible [Dark Clothing, No Lighting, etc.])** is used when the non-motorist was not visible to the motorist because of blocked views, insufficient lighting or other reasons **such as clothing which blends in with the surroundings at any time of the day (camouflage) or dark clothing in the rain at night.** The officer must indicate that the non-motorist was not visible.

**20 (Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle)** is used when an improper passing maneuver is indicated in the case materials for the non-motorist. This indicates passing violations based on faulty judgment. This may be used in conjunction with 08 (Improper Passing) if both apply.

**21 (Other, Specify:)** is used when the case materials state that an action(s)/circumstances(s) by the non-motorist may have contributed to the crash, but are not listed in these attributes. Examples include being pushed into the roadway, falling from a bicycle, traveling on a prohibited roadway.

\*Note: for attributes with a “Specify:” designation, a fill-in text box will open in MDE. This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.

**99 (Unknown)** is used when the officer indicated unknown in the case material’s contributing circumstances field or the narrative and no other information is available. If this attribute is used no other attribute may be selected.

**Consistency Checks:**

IF	THEN
(0PB1) PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 741,	<i>at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 11.</i>
(1N4F) any NON-MOTORIST SAFETY EQUIPMENT equals 5,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 13.
(1P3F) PERSON TYPE equals 10,	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must not equal 01-12, 16, and <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> must not equal 01-20.
(1P0G) PERSON TYPE equals 05,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must not equal 07, 08, 10, 13-18, 20.
(1P3G) PERSON TYPE equals 04, 06, 07,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 04.
(1P4G) PERSON TYPE equals 04, 06-08, 19,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 05.
(1P5G) PERSON TYPE equals 08,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 20.
(1P9G) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 20,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must not equal 02-04, 15.
(1P0H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must not equal 02-04, 07-10, 15, 16, 20.
(1P1H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 22,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must not equal 01, 02, 04, 07, 08, 11, 15, 20.
(1P2H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 23,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must not equal 12, 15.
(1P3H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 24,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must not equal 01, 03, 04, 10, 11.
(1P4H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 25,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must not equal 01-04, 10-12, 15-17, 20.
(1P5H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 28, 98, 99,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 01, 03, 04, 10-12, 15, 16, 20.
(1P6H) NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 16,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 04, 16.

	IF	THEN
(1P7H)	NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 01, 05, <b>11</b> , 12, 17.
(1P8H)	NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 23,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 02.
(1P9H)	NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 24,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 02, 05, 12, 15, 16.
(1PH0)	NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 25,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 07-09.
(4X8F)	any NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> equals <b>00 or 99</b> ,	only that one code and no other must be coded for this person.
(PB16)	PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLIST equals 142, 144, 147, 153, 155, 156, 157, 159, 311, 312, <b>313</b> , 318, 319 or 357,	at least one NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must equal 02.
(PB18)	PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 742,	at least one NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> must equal 01.
(PB26)	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> equals 02, and PERSON TYPE equals 06 or 07,	PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLIST should equal 142, 144, 147, 153, 155, 156, 157, 159, 311, 312, <b>313</b> , 318, 319 or 357.

## **NON-MOTORIST SAFETY EQUIPMENT**

**FORMAT:** 1 numeric. Select all that apply.

**SAS NAME:** Safety.MSAFEQMT

**ELEMENT VALUES:**

- 1 None Used
- 2 Helmet
- 3 Reflective Equipment/Clothing (jacket, backpack, etc.)
- 4 Protective Pads Used (elbows, knees, shins, etc.)
- 5 Lighting
- 7 Other Safety Equipment
- 8 Not Reported
- 9 Unknown if Used

**Definition:** This element indicates the safety equipment that was used by the non-motorist involved in the crash.

**Remarks:**

Select all that apply.

**1 (None Used)** is used when the case materials specifically states that the non-motorist was not wearing or carrying any type of safety equipment.

**2 (Helmet)** is used when the case materials indicate that the non-motorist was wearing a safety helmet. The non-motorist does not have to be riding a bicycle at the time of the crash to use this attribute. For a non-motorist wearing a motorcycle helmet, use the attribute **7 (Other Safety Equipment)**.

**3 (Reflective Equipment/Clothing)** is used when the case materials indicate that the non-motorist was wearing or carrying some type of reflective equipment. The emphasis is on the reflective property of the equipment and does not include devices which give off light under their own power (e.g. flashlights). The equipment can be reflective tape affixed to regular clothing, special reflective clothing, a reflective device that is worn or a reflective device that is carried. It can be made by the non-motorist and does not have to be specially designed as a safety device.

**4 (Protective Pads Used)** is used when the case materials indicate the non-motorist was wearing padded, shaped attachments to protect specific areas of the body (elbows, knees, shins, etc.) from injury.

**5 (Lighting)** is used when a non-motorist uses a light on his/her person or on a pedalcycle or personal conveyance for safety purposes, to include flashlights.

**7 (Other Safety Equipment)** is used when the case materials indicate that the non-motorist was using safety equipment but it does not fit into the listed attributes. Any clothing that is non-reflective but considered to be safety equipment (hi-glo orange clothing) should be coded using this attribute. Also use this attribute for a non-motorist wearing motorcycle safety equipment (e.g. motorcycle helmet).

### **8 (Not Reported)**

If a state's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**".

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the state's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials)
2. A field or coding block exists on the state's crash report that would provide the information needed to code this element, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

**9 (Unknown If Used)** if the investigating officer indicates that it is unknown if safety equipment was used.

### **Consistency Checks:**

<b>IF</b>	<b>THEN</b>
(1N2F) PERSON TYPE equals 10,	at least one NON-MOTORIST SAFETY EQUIPMENT should equal 1.
(1N4F) any NON-MOTORIST SAFETY EQUIPMENT equals 5,	NON-MOTORIST <b>CONTRIBUTING CIRCUMSTANCES</b> should not equal 13.
(4X9F) any NON-MOTORIST SAFETY EQUIPMENT equals 1 or 8 or 9,	only that one code and no other must be coded for this person.
(8T0F) any NON-MOTORIST SAFETY EQUIPMENT equals 2,	PERSON TYPE should equal 06-08.

## **CONDITION (IMPAIRMENT) AT TIME OF CRASH**

**FORMAT:** 2 numeric. Select all that apply.

**SAS NAME:** Nmimpair.NMIMPAIR

**ELEMENT VALUES:**

- 1 None/Apparently Normal
- 2 III, Blackout
- 3 Asleep or Fatigued
- 4 Walking with a Cane or Crutches, **etc.**
- 5 Paraplegic Or Restricted To Wheelchair
- 6 Impaired Due To Previous Injury
- 7 Deaf
- 8 Blind
- 9 Emotional (depressed, angry, disturbed, etc)
- 10 Under the Influence of Alcohol, Drugs or Medication
- 11 Physical Impairment – No Details
- 96 Other Physical Impairment
- 98 Not Reported
- 99 Unknown If Impaired

**Definition:** This element attempts to identify any physical impairment to this non-motorist which may have contributed to the cause of the crash.

**Remarks:**

Select all that apply.

This elements values and remarks are identical to Driver Level element D23. Please see page [541](#) for remarks.

**Consistency Checks:**

	IF	THEN
(1P6G)	PERSON TYPE equals 04, 06-08, 19,	CONDITION (IMPAIRMENT) AT TIME OF CRASH must not equal 03.
(1P7G)	PERSON TYPE equals 05-07, 19,	CONDITION (IMPAIRMENT) AT TIME OF CRASH should not equal 04.
(1P8G)	PERSON TYPE equals 10,	CONDITION (IMPAIRMENT) AT TIME OF CRASH should not equal 01-10, 96.

<b>IF</b>	<b>THEN</b>
(4X3F) any CONDITION (IMPAIRMENT) AT TIME OF CRASH (NM14) equals 00 or 98 or 99,	only that one code and no other must be coded for this person.
(4X6F) any CONDITION (IMPAIRMENT) AT TIME OF CRASH (NM14) equals 09,	POLICE REPORTED ALCOHOL INVOLVEMENT (NM15) or POLICE REPORTED DRUG INVOLVEMENT (NM18) must equal 1 for this person.
(U590) UNLIKELY: <u>any</u> CONDITION (IMPAIRMENT) AT TIME OF CRASH (NM14) equals 05 or 07.	

## **POLICE REPORTED ALCOHOL INVOLVEMENT**

**FORMAT:** 1 numeric

**SAS NAME:** Person.DRINKING

**ELEMENT VALUES:**

- 0 No (Alcohol Not Involved)
- 1 Yes (Alcohol Involved)
- 8 Not Reported
- 9 Unknown (Police Reported)

**Definition:** This data element reflects only the judgment of law enforcement as to whether alcohol was involved or not for this person.

**Remarks:**

This elements values and remarks are identical to Person Level (MV Occupant) Level element P16. Please see page 743 for remarks.

**Consistency Checks:**

	IF	THEN
(4X6F)	any CONDITION (IMPAIRMENT) AT TIME OF CRASH (NM14) equals 09,	POLICE REPORTED ALCOHOL INVOLVEMENT (NM15) or POLICE REPORTED DRUG INVOLVEMENT (NM18) must equal 1 for this person.
(D090)	VIOLATIONS CHARGED equals 11-19, and PERSON TYPE equals 01, 03,	POLICE REPORTED ALCOHOL INVOLVEMENT should equal 1, or POLICE REPORTED DRUG INVOLVEMENT should equal 1.
(P072)	PERSON TYPE equals 02, 03, and INJURY SEVERITY equals 0, and ALCOHOL TEST RESULT equals 96,	POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 8.
(P110)	METHOD OF ALCOHOL DETERMINATION BY POLICE equals 1-5, 8,	POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 1.
(P200)	POLICE REPORTED ALCOHOL INVOLVEMENT equals 8, 9,	METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 9.
(P300)	POLICE REPORTED ALCOHOL INVOLVEMENT equals 1, and INJURY SEVERITY equals 4,	ALCOHOL TEST STATUS should not equal 0, 1.

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## **METHOD OF ALCOHOL DETERMINATION BY POLICE**

**(FARS Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Person.ALC\_DET

**ELEMENT VALUES:**

- 1 Evidential Test (breath, blood, urine)
- 2 Preliminary Breath Test (PBT)
- 3 Behavioral
- 4 Passive Alcohol Sensor (PAS)
- 5 Observed
- 8 Other (e.g., Saliva test)
- 9 Not Reported

**Definition:** This element describes the method by which the police made the determination as to whether alcohol was involved or not for this person.

**Remarks:**

This elements values and remarks are identical to Person Level (MV Occupant) Level element P17. Please see page 747 for remarks.

**Consistency Checks:**

	IF	THEN
(P110)	METHOD OF ALCOHOL DETERMINATION BY POLICE equals 1-5, 8,	POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 1.
(P200)	POLICE REPORTED ALCOHOL INVOLVEMENT equals 8, 9,	METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 9.
(U681)	UNLIKELY: METHOD OF ALCOHOL DETERMINATION BY POLICE equals 8.	

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## **ALCOHOL TEST**

**FORMAT:** 3 sets, 1 set, 1 numeric, 2 sets, 2 numeric

**SAS NAME:** Person.ALC\_STATUS, Person.ATST\_TYP, Person.ALC\_RES

**ELEMENT VALUES:**

SAS		
<u>GES</u>	<u>FARS</u>	
Subfield 1 – Test Status		
0	0	Test Not Given
1	1	Test Refused
2	2	Test Given
8	8	Not Reported
9	9	Unknown if Tested
Subfield 2 – Test Type		
00	00	Test Not Given
01	01	Blood
02	02	Breathalyzer “BAC”
10	10	Preliminary Breath Test (PBT)
03	03	Urine
XX	04	Vitreous
XX	05	Blood Plasma/Serum
XX	06	Blood Clot
XX	07	Liver
08	08	Other Test Type
98	98	Unknown Test Type
95	95	Not Reported
99	99	Unknown if Tested
Subfield 3 – Test Result		
00-93	00-93	Actual Value
94	94	.94 or Greater
96	96	Test Not Given
97	97	AC Test Performed, Results Unknown
98	98	Positive Reading With No Actual Value
95	95	Not Reported
99	99	Unknown if Tested

**Definition for Alcohol Test Status:** This element identifies if an alcohol (***ethanol***) test was given to this person.

**Definition for Alcohol Test Type:** This element identifies the type of the alcohol (*ethanol*) test that was used for this person.

**Definition for Alcohol Test Result:** This element identifies the alcohol (*ethanol*) test result for this person.

**Remarks:**

This elements values and remarks are identical to Person Level (MV Occupant) Level element P18. Please see page [751](#) for remarks.

**Consistency Checks:**

IF	THEN
(5T7P) ALCOHOL TEST STATUS equals 0, 1,	ALCOHOL TEST TYPE must equal 00, and ALCOHOL TEST RESULT must equal 96.
(5T8P) ALCOHOL TEST STATUS equals 9,	ALCOHOL TEST TYPE must equal 99, and ALCOHOL TEST RESULT must equal 99.
(5T9P) ALCOHOL TEST STATUS equals 2,	ALCOHOL TEST TYPE must equal 01-10, <b>95</b> , 98, and ALCOHOL TEST RESULT must equal 00-94, 97, 98.
(5TCP) ALCOHOL TEST STATUS equals 8,	ALCOHOL TEST TYPE must equal 95, and ALCOHOL TEST RESULT must equal 95.
(P071) PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	ALCOHOL TEST STATUS should not equal 9, ALCOHOL TEST TYPE should not equal 99, and ALCOHOL TEST RESULT should not equal 99.
(P072) PERSON TYPE equals 02, 03, and INJURY SEVERITY equals 0, and ALCOHOL TEST RESULT equals 96,	POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 8.
(P074) PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	ALCOHOL TEST STATUS must not equal 8, ALCOHOL TEST TYPE must not equal 95, and ALCOHOL TEST RESULT must not equal 95.
(P080) ALCOHOL TEST RESULTS should not equal 34-94.	
(P300) POLICE REPORTED ALCOHOL INVOLVEMENT equals 1, and INJURY SEVERITY equals 4,	ALCOHOL TEST STATUS should not equal 0, 1.

## **POLICE REPORTED DRUG INVOLVEMENT**

**FORMAT:** 1 numeric

**SAS NAME:** Person.DRUGS

**ELEMENT VALUES:**

- 10 No (Drugs Not Involved)
- 1 Yes (Drugs Involved)
- 8 Not Reported
- 9 Unknown (Police Reported)

**Definition:** This data element reflects only the judgment of law enforcement as to whether drugs were involved or not for this person.

**Remarks:**

This elements values and remarks are identical to Person Level (MV Occupant) Level element P19. Please see page [759](#) for remarks.

**Consistency Checks:**

	IF	THEN
(4X6F)	any CONDITION (IMPAIRMENT) AT TIME OF CRASH (NM14) equals 09,	POLICE REPORTED ALCOHOL INVOLVEMENT (NM15), or POLICE REPORTED DRUG INVOLVEMENT (NM18) must equal 1 for this person.
(BQ0P)	METHOD OF DRUG DETERMINATION BY POLICE equals 8,	POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8, 9.
(BR0P)	METHOD OF DRUG DETERMINATION BY POLICE equals 1-7,	POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8.
(D090)	VIOLATIONS CHARGED equals 11-19, and PERSON TYPE equals 01, 03,	POLICE REPORTED ALCOHOL INVOLVEMENT should equal 1, or POLICE REPORTED DRUG INVOLVEMENT should equal 1.
(P140)	POLICE REPORTED DRUG INVOLVEMENT equals 8, 9,	METHOD OF DRUG DETERMINATION BY POLICE should equal 8.
(P150)	POLICE REPORTED DRUG INVOLVEMENT equals 1,	DRUG TEST STATUS should not equal 0.
(P160)	POLICE REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2,	not all DRUG TEST RESULTS should equal 001.

**IF**

**THEN**

(P170) METHOD OF DRUG DETERMINATION BY POLICE equals 1-7,  
POLICE REPORTED DRUG INVOLVEMENT should equal 0, 1.

## **METHOD OF DRUG DETERMINATION BY POLICE** **(FARS Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Person.DRUG\_DET

### **ELEMENT VALUES**

- 1 Evidential Test (Blood, Urine)
- 2 Drug Recognition Technician (DRT) determination
- 3 Behavioral
- 7 Other
- 8 Not Reported

**Definition:** This element identifies the method by which the police made the determination as to whether drugs were involved or not for this person.

### **Remarks:**

This elements values and remarks are identical to Person Level (MV Occupant) Level element P20. Please see page 763 for remarks.

### **Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(BQ0P)	METHOD OF DRUG DETERMINATION BY POLICE equals 8,	POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8, 9.
(BR0P)	METHOD OF DRUG DETERMINATION BY POLICE equals 1-7,	POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8.
(P140)	POLICE REPORTED DRUG INVOLVEMENT equals 8, 9,	METHOD OF DRUG DETERMINATION BY POLICE should equal 8.
(P160)	POLICE REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2,	not all DRUG TEST RESULTS should equal 001.
(P170)	METHOD OF DRUG DETERMINATION BY POLICE equals 1-7,	POLICE REPORTED DRUG INVOLVEMENT should equal 0, 1.

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## **DRUG TEST**

**FORMAT:** 3 sets: 2 sets, 1 numeric; 1 set, 3 numeric

**SAS NAME:** Person.DSTATUS, Person.DRUGTST1, Person.DRUGTST2,  
Person.DRUGTST3, Person.DRUGRES1, Person.DRUGRES2, Person.DRUGRES3

**ELEMENT VALUES:**

**GES      FARS**

		Subfield 1 – Test Status
0	0	Test Not Given
1	1	Test Refused
2	2	Test Given
8	8	Not Reported
9	9	Unknown if Tested
		Subfield 2 – Test Type
0	0	Test Not Given
1	1	Blood
2	2	Urine
3	3	Both: Blood and Urine Tests
7	7	Unknown Test Type
8	8	Other Test Type
6	6	Not Reported
9	9	Unknown if Tested
		Subfield 3 – Test Result
000	000	Test Not Given
001	001	Tested, No Drugs Found/Negative
XXX	100-295	Narcotic*
XXX	300-395	Depressant*
XXX	400-495	Stimulant*
XXX	500-595	Hallucinogen*
XXX	600-695	Cannabinoid*
XXX	700-795	Phencyclidine (PCP)*
XXX	800-895	Anabolic Steroid*
XXX	900-995	Inhalant*
XXX	996	Other Drug
997	997	Test for Drug, Results Unknown
998	998	Tested for Drugs, Drugs Found, Type Unknown/Positive
095	095	Not Reported
999	999	Unknown If Tested

\* See Specific Drug Listings

\*\* Test Result does not include Aspirin, Nicotine or *Ethanol*.  
*Alcohols reported other than ethanol would be classified under*

**996 (Other Drug).** *In addition, exclude drugs explicitly indicated to have been administered after the crash. See Remarks below.*

**Definition for Drug Test Status:** This element identifies if a **chemical test for the presence of drugs** was given to this person.

**Definition for Drug Test Type:** This element identifies the type of **chemical test for the presence of drugs** that was used for this person.

**Definition for Drug Test Result:** This element identifies the result **of a chemical test for the presence of drugs** for this person.

#### **Remarks:**

This elements values and remarks are identical to Person Level (MV Occupant) Level element P21. Please see page **767** for remarks.

See Alphabetical and Numerical List of Drugs under element P21. Also reference “Examples for Interpreting Drug Tests” under element P21.

#### **Consistency Checks:**

IF	THEN
(BT1P) DRUG TEST STATUS equals 0, 1,	all DRUG TEST TYPE must equal 0, and all DRUG TEST RESULT must equal 000.
(BT2P) DRUG TEST STATUS equals 8,	DRUG TEST TYPE 1 must equal 6, and DRUG TEST RESULT 1 must equal 095 and remaining DRUG TEST TYPES and DRUG TEST RESULTS must be 0 filled.
(BT3P) DRUG TEST STATUS equals 2,	at least one DRUG TEST TYPE must equal 1-8, and <u>one</u> corresponding DRUG TEST RESULT must equal 001, <b>095</b> , 100-295, 300-395, 400-495, 500-595, 600-695, 700-795, 800-895, 900-995, 996-998.
(BT6P) DRUG TEST STATUS equals 9,	DRUG TEST TYPE 1 must equal 9, and DRUG TEST RESULT 1 must equal 999 and remaining DRUG TEST TYPES and DRUG TEST RESULTS must be 0 filled.
(BT7P) DRUG TEST STATUS equals 2, and DRUG TEST RESULT <u>one</u> equals 001, <b>095</b> , 100-295, 300-395, 400-495, 500-595, 600-695, 700-795, 800-895, 900-995, 996, 997, 998,	DRUG TEST RESULT <u>two and three</u> must not equal 999.

IF	THEN
(BT8P) More than one of the <u>same</u> DRUG TEST RESULT values must not be coded for the same person except for 000, 996.	
(BT9P) DRUG TEST RESULT 1 equals 000, 001, 997, 998, 095, or 999,	DRUG TEST RESULT 2 and DRUG TEST RESULT 3 must equal 000.
(P073) PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	DRUG TEST STATUS should not equal 9, and any DRUG TEST TYPE should not equal 9, and any DRUG TEST RESULTS should not equal 999.
(P075) PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4,	DRUG TEST STATUS must not equal 8, any DRUG TEST TYPE must not equal 6, and any DRUG TEST RESULTS must not equal 095.
(P150) POLICE REPORTED DRUG INVOLVEMENT equals 1,	DRUG TEST STATUS should not equal 0.
(P160) POLICE REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2,	not all DRUG TEST RESULTS should equal 001.

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## **TRANSPORTED TO FIRST MEDICAL FACILITY BY**

**FORMAT:** 1 numeric

**SAS NAME:** Person.Hospital

### **ELEMENT VALUES:**

- 0 Not Transported
- 1 EMS Air
- 5 EMS Ground
- 3 EMS Unknown Mode
- 2 Law Enforcement
- 4 Transported Unknown Source
- 6 Other
- 8 Not Reported
- 9 Unknown

**Definition:** This element identifies the method of transportation this person was provided to receive treatment at the first hospital or medical facility.

### **Remarks:**

This elements values and remarks are identical to Person Level (MV Occupant) Level element P22. Please see page [787](#)for remarks.

### **Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(2U3F)	INJURY SEVERITY equals 3,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 0.
(A551)	EMS TIME AT HOSPITAL equals 8888, 9997, 9998,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 1, 3, 5 for any PERSON.
(P090)	INJURY SEVERITY equals 0,	TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.
(P091)	TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 1, 3, 5,	EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.
(P093)	all persons TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 2, 4,	NOTIFICATION TIME EMS, ARRIVAL TIME EMS, EMS TIME AT HOSPITAL must equal 8888.
(P50P)	DIED AT SCENE/EN ROUTE equals 7,	TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.

<b>IF</b>	<b>THEN</b>
(P51P) DIED AT SCENE/EN ROUTE equals 8,	TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 1-6.

**Consistency Checks (FARS Only):**

<b>IF</b>	<b>THEN</b>
(P520) CRASH DATE and DEATH DATE are the same, and CRASH TIME AND DEATH TIME are the same,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0, and DIED AT SCENE/EN ROUTE should equal 7.
(P52P) DIED AT SCENE/EN ROUTE equals 9,	TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 8 or 9.
(P55P) TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 9,	DIED AT SCENE/EN ROUTE must equal 0, 9.

## **DIED AT SCENE/EN ROUTE**

**(FARS Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Person.DOA

**ELEMENT VALUES:**

- 10 Not Applicable
- 7 Died at Scene
- 8 Died En Route
- 9 Unknown

**Definition:** This element identifies if this person died at the scene of the crash or en route to a hospital or treatment facility.

**Remarks:**

This elements values and remarks are identical to Person Level (MV Occupant) Level element P23. Please see page 791for remarks.

**Consistency Checks:**

	<b>IF</b>	<b>THEN</b>
(1R1P)	If DIED AT SCENE/EN ROUTE equals 7, 8,	INJURY SEVERITY must equal 4.
(P50P)	DIED AT SCENE/EN ROUTE equals 7,	TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.
(P510)	EMS TIME AT HOSPITAL equals 8888, 9997, 9998,	DIED AT SCENE/EN ROUTE should not equal 8 for any PERSON.
(P51P)	DIED AT SCENE/EN ROUTE equals 8,	TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 1-6.
(P530)	EMS TIME AT HOSPITAL equals 9996,	DIED AT SCENE/EN ROUTE must equal 8 for at least one person.
(P53P)	INJURY SEVERITY equals 0-3, 5, 6,	DIED AT SCENE/EN ROUTE must equal 0.
(P54P)	DIED AT SCENE/EN ROUTE equals 8,	EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.
(P56P)	DIED AT SCENE/EN ROUTE equals 7,	DEATH TIME should be within 30 minutes of the CRASH TIME.

**Consistency Checks (FARS Only):**

	<b>IF</b>	<b>THEN</b>
(P520)	CRASH DATE and DEATH DATE are the same, and CRASH TIME AND DEATH TIME are the same,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0, and DIED AT SCENE/EN ROUTE should equal 7.
(P52P)	DIED AT SCENE/EN ROUTE equals 9,	TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 8 or 9.
(P55P)	TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 9,	DIED AT SCENE/EN ROUTE must equal 0, 9.

## **DEATH DATE** **(FARS Only)**

**FORMAT:** 2 sets of 2 numeric, 1 set of 4 numeric

**SAS NAME:** Person.DEATH\_DA; Person.DEATH\_MO; Person.DEATH\_YR

**ELEMENT VALUES:**

**Month:**

88	Not Applicable (Non-fatal)
01-12	
99	Unknown

**Day:**

88	Not Applicable (Non-fatal)
01-31	
99	Unknown

**Year:**

8888	Not Applicable (Non-fatal)
	Actual Year of Death
9999	Unknown

**Definition:** This element records the month, day and year of this person's death.

**Remarks:**

This elements values and remarks are identical to Person Level (MV Occupant) Level element P24. Please see page [793](#) for remarks.

**Consistency Check:**

	<b>IF</b>	<b>THEN</b>
(1U1F)	INJURY SEVERITY equals 4,	DEATH DATE must not equal 88888888.
(1V0P)	DEATH MONTH or DAY equals 88, or DEATH YEAR equals 8888,	all must equal 8's.
(2U1F)	INJURY SEVERITY is not equal to 4,	DEATH DATE must equal 88888888.
(2V0P)	DEATH DAY is 01-31, and DEATH MONTH is 01-12,	DEATH DAY must be a valid day for DEATH MONTH.
(3U0P)	DEATH DATE equals CRASH DATE, and CRASH TIME is not equal to 9999,	DEATH TIME must not be less than CRASH TIME.

IF	THEN
(4V1F) INJURY SEVERITY equals 4,	DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME.
(4V2F) CRASH MONTH equals 12, and DEATH MONTH equals 01,	DEATH YEAR must equal CRASH YEAR plus 1.
(4V3F) CRASH MONTH equals 12,	DEATH MONTH must equal 01, 12, 88, 99.
(4V4F) CRASH MONTH equals 02-11, and DEATH MONTH is not equal to 88 or 99,	DEATH MONTH must equal CRASH MONTH or CRASH MONTH plus 1.
(4V5F) CRASH MONTH equals 01, and DEATH MONTH is not equal to 88 or 99,	DEATH MONTH must equal CRASH MONTH or CRASH MONTH plus 1 or CRASH MONTH plus 2.
(4V6P) DEATH MONTH is not equal to blanks,	DEATH DAY and DEATH YEAR must not equal blanks.
(4V7P) DEATH DAY is not equal to blanks,	DEATH MONTH and DEATH YEAR must not equal blanks.
(4V8P) DEATH YEAR is not equal to blanks,	DEATH MONTH and DEATH DAY must not equal blanks.
(6V0P) DEATH DATE must not be less than CRASH DATE.	
(7V0F) DEATH YEAR equals 9999,	CRASH MONTH must not be 01-11.
(8V0P) DEATH YEAR equals 9999,	DEATH MONTH and DEATH DAY must equal 99.
(9V0P) DEATH MONTH equals 99,	DEATH DAY must equal 99.
(P56P) DIED AT SCENE/EN ROUTE equals 7,	DEATH TIME should be within 30 minutes of the CRASH TIME.

**Consistency Check (FARS Only):**

IF	THEN
(P520) CRASH DATE and DEATH DATE are the same, and CRASH TIME and DEATH TIME are the same,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0, and DIED AT SCENE/EN ROUTE should equal 7.

## **DEATH TIME** **(FARS Only)**

**FORMAT:** 4 numeric

**SAS NAME:** Person.DEATH\_HR; Person.DEATH\_MN; Person.DEATH\_TM

**ELEMENT VALUES:**

8888	Not Applicable (Non-fatal)
0000-2359	Valid Military Time
0099-2399	Known Hour but Unknown Minutes
9999	Unknown

**Definition:** This element identifies the hour and minute of this person's death utilizing the 24-hour clock format.

**Remarks:**

This elements values and remarks are identical to Person Level (MV Occupant) Level element P25. Please see page 795 for remarks.

**Consistency Checks:**

IF	THEN
(1U2F) INJURY SEVERITY equals 4,	DEATH TIME must not equal 8888.
(2U2F) INJURY SEVERITY is not equal to 4,	DEATH TIME must equal 8888.
(3U0P) DEATH DATE equals CRASH DATE, and CRASH TIME is not equal to 9999,	DEATH TIME must not be less than CRASH TIME.
(4V1F) INJURY SEVERITY equals 4,	DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME.
(P56P) DIED AT SCENE/EN ROUTE equals 7,	DEATH TIME should be within 30 minutes of the CRASH TIME.

**Consistency Check (FARS Only):**

IF	THEN
(P520) CRASH DATE and DEATH DATE are the same, and CRASH TIME AND DEATH TIME are the same,	TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0, and DIED AT SCENE/EN ROUTE should equal 7.

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## **RELATED FACTORS – PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL**

**FORMAT:** 2 numeric occurring 3 times

**SAS NAME:** Person.P\_SF1, Person.P\_SF2, Person.P\_SF3

**ELEMENT VALUES:**

- 00 None
- \*08 Mentally Challenged
- 09 Construction/Maintenance/Utility Worker
- 13 Motorized Wheelchair Rider
- \*18 Mother of Dead Fetus/ Mother of Infant Born Post Crash
- \*21 Overloading or Improper Loading of Vehicle With Passengers or Cargo
- \*26 Following Improperly
- \*37 Traveling on Prohibited Trafficways
- \*40 Passing Through or Around Barrier
- \*41 Failure to Observe Warnings or Instructions on Vehicles Displaying Them
- \*42 Failure to Signal Intentions
- \*51 Operator Inexperience
- \*52 Unfamiliar with Roadway
- 56 Non-Driver Flees Scene
- \*57 Improper Tire Pressure

**Vision Obscured By:**

- \*60 Rain, Snow, Fog, Smoke, Sand, Dust
- \*61 Reflected Glare, Bright Sunlight, Headlights
- \*62 Curve, Hill, or Other Design Features (including traffic signs, embankment)
- \*63 Building, Billboard, Other Structures
- \*64 Trees, Crops, Vegetation
- \*65 Motor Vehicle (including load)
- \*66 Parked Vehicle
- \*67 Splash or Spray of Passing Vehicle
- \*68 Inadequate Lighting System
- \*69 Obstructing Angles on Vehicle
- \*70 Mirrors
- \*72 Other Visual Obstruction

**Skidding, Swerving, Sliding Due To:**

- \*73 Severe Crosswind
- \*74 Wind From Passing Truck
- \*75 Slippery or Loose Surface
- \*76 Tire Blowout or Flat
- \*77 Debris or Objects in Road

- \*78 Ruts, Holes, Bumps in Road
- \*80 Vehicle in Road
- \*81 Phantom Vehicle
- \*82 Pedestrian, Pedal Cyclists, or Persons on Personal Conveyances
- \*83 Ice, Snow, Slush, Water, Sand, Dirt, Oil, Wet Leaves on Road

**Other Non-Motorist Factors:**

- 86 Emergency Services Personnel
- 87 Police or Law Enforcement Officer
- 90 Non-Motorist Pushing a Vehicle
- 91 Portable Electronic Devices
- 99 Unknown

**\*FARS ONLY ATTRIBUTES**

**Definition:** This element identifies factors related to persons not in a motor vehicle expressed by the investigating officer.

**Remarks:****Element Values:**

<b>Related Factors</b>		<b>Examples/Notes</b>
	Blanks	
<b>00</b>	None	
*08	Mentally Challenged	Mental illness/ <b>intellectual developmental disorder</b> may be included.
<b>09</b>	Construction/Maintenance/Utility Worker	Highway department, contractor, utility company personnel, etc.
<b>13</b>	Motorized Wheelchair Rider	Pedestrian riding in a motorized wheelchair.
*18	Mother of Dead Fetus/ Mother of Infant Born Post Crash	Fetus dies in or as a result of this crash.
*21	Overloading or Improper Loading of Vehicle With Passengers or Cargo	Overloading bicycle, passenger or handlebars.

<b>Related Factors</b>		<b>Examples/Notes</b>
*26	Following Improperly	Bicyclist following too closely or attempting to grab on to vehicle.
*37	Traveling on Prohibited Trafficways	Also applies to skateboard riders, roller bladders, etc. Persons not in motor vehicles in-transport on areas prohibited by law, such as interstates. Persons not in motor vehicles in-transport on prohibited trafficways, e.g., bicyclist on interstate.
*40	Passing Through or Around Barrier	Denotes "demarcated" area.
*41	Failure to Observe Warnings or Instructions on Vehicles Displaying Them	Failure to follow construction instructions (i.e., arrows directing traffic mounted on vehicle), instructions on emergency vehicles (ambulances, fire trucks, police cars). Failure to observe right-turn warning on trucks, buses. Failure to heed hazard lights on disabled vehicle, school bus arm.
*42	Failure to Signal Intentions	Failure to signal by either lamp turn signal or hand.
*51	Operator Inexperience	Persons not in motor vehicles in-transport unfamiliar with transport device.
*52	Unfamiliar with Roadway	Persons not in motor vehicles in-transport unfamiliar with roadway, based on the judgment of the police officer.
56	Non-Driver Flees Scene	Flags the non-driver who left the scene of a Hit-and-Run crash. Examples: passenger of motor vehicle in-transport fled scene on foot. Occupant of an involved parked vehicle leaves by driving their vehicle from the scene. A bicyclist clipped by a vehicle that runs off the road and overturns, leaves the scene on their bike. An involved motor vehicle in-transport is driven away by a passenger in that vehicle.
*57	Improper Tire Pressure	Signifies that improper tire pressure is not a defect, but rather the irresponsibility of the persons not in motor vehicles in-transport.

<b>Related Factors</b>		<b>Examples/Notes</b>
<b><u>Vision Obscured by:</u></b>		
*60	Rain, Snow, Fog, Smoke, Sand, Dust	
*61	Reflected Glare, Bright Sunlight, Headlights	
*62	Curve, Hill, or Other Design Features (including traffic signs, embankment)	
*63	Building, Billboard, Other Structures	
*64	Trees, Crops, Vegetation	
*65	Motor Vehicle (including load)	<p>Vision Obscured by:</p> <ul style="list-style-type: none"> <li>• Car stopped on roadway.</li> <li>• Tractor-trailer moving on road.</li> <li>• School bus stopped, loading or unloading children.</li> </ul>
*66	Parked Vehicle	<p>Vision obscured by: Vehicle stopped on shoulder, in parking lane.</p>
*67	Splash or Spray of Passing Vehicle	
*68	Inadequate Lighting System	
*69	Obstructing Angles on Vehicle	<p>Vision Obscured by:</p> <ul style="list-style-type: none"> <li>• Obstructing angles on this person's vehicle.</li> </ul> <p>Not to be confused with visual obstructions from other vehicles. (See <b>Motor Vehicle (including load)</b> and <b>Parked Vehicle</b>.)</p>
*70	Mirrors	<p>Vision Obscured by:</p> <ul style="list-style-type: none"> <li>• Rear view</li> <li>• Side mirrors</li> <li>• Others</li> </ul>

<b>Related Factors</b>		<b>Examples/Notes</b>
*72	Other Visual Obstruction	Trailer (only) left parked.
	<b><u>Skidding Swerving, Sliding Due To:</u></b>	
*73	Severe Crosswind	
*74	Wind From Passing Truck	
*75	Slippery or Loose Surface	Refers to actual condition of roadway surface, e.g., loose gravel roadway. Slippery or old worn blacktop. Newly paved surface.
*76	Tire Blowout or Flat	
*77	Debris or Objects in Road	Nails, glass, trash cans, tire retread, trash, dead animals, pile of sand, etc.
*78	Ruts, Holes, Bumps in Road	
*80	Vehicle in Road	Includes both contact and non-contact vehicles that remain at the scene.
*81	Phantom Vehicle	Non-contact vehicle that leaves the scene as described by the police officer.
*82	Pedestrian, Pedal Cyclists, or Persons on Personal Conveyances.	
*83	Ice, Snow, Slush, Water, Sand, Dirt, Oil, Wet Leaves on Road	This is for the substances on roadway that causes roadway to be slick, which may interfere with traction. These are not part of the roadway design (see <b>Slippery or Loose Surface</b> ).
<b><u>Other Non-Motorist Factors:</u></b>		
86	Emergency Services Personnel	Includes fire, EMS, wrecker service personnel.

<b>Related Factors</b>		<b>Examples/Notes</b>
<b>87</b>	Police or Law Enforcement Officer	Federal, State or local law enforcement officer working at the time of the crash. Includes: Military and Park Police, Border Patrol and all other sworn law enforcement officers.
<b>90</b>	Non-Motorist Pushing a Vehicle	
<b>91</b>	Portable Electronic Devices	Cell phone, MP3 Player, PDA, etc.
<b>99</b>	Unknown	

**Remarks:**

Code information provided in the narrative by the investigating officer.

**Use of 00 (None)**

Use when no factors are noted; zero-fill all fields. None implies that the investigating officer indicated “no factors.” Also, use **00 (None)** to complete remaining fields when you will be recording less than three related factors. DO NOT leave any remaining fields blank.

**Use of 99 (Unknown)**

Use when the circumstances surrounding the crash are unknown and reported as “unknown” by the investigating officer. In these circumstances, nine-fill all fields. If **99 (Unknown)** is used for any field, ALL fields must be **99 (Unknown)**. DO NOT leave any remaining fields blank.

The following lists those related factors that may be used for each person type (NM7):

<b>Person Type</b>	<b>Valid Related Factors</b>
04	00, 08, 09, 18, 21, 26, 37, 40-42, 51, 52, 56, 57, 60-70, 72-78, 80-83, 87, 91, 99
05	00, 08, 09, 18, 37, 41, 56, 60-67, 72, 86-87, 90, 91, 99
06	00, 08, 18, 21, 26, 37, 40-42, 51, 52, 56, 57, 60-68, 72-78, 80-83, 87, 91, 99
07	00, 08, 18, 21, 26, 37, 40-42, 51, 52, 56, 57, 60-68, 72-78, 80-83, 91, 99
08	00, 08, 13, 18, 21, 26, 37, 40-42, 51, 52, 56, 57, 60-70, 72-78, 80-83, 87, 91, 99
10	00, 08, 13, 18, 26, 86, 87, 99
19	00, 08, 09, 18, 21, 26, 37, 40-42, 51, 52, 56, 57, 60-68, 72-78, 80-83, 86, 87, 91, 99

**Consistency Checks:**

IF	THEN
(1M1F) RELATED FACTORS-PERSON LEVEL equals 13,	PERSON TYPE should equal 08.
(1N0F) PERSON TYPE equals 06,	RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 09, 13, 69, 70, 86, 90.
(1N1F) PERSON TYPE equals 10,	RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 09, 21, 37, 40-42, 51, 52, 56, 57, 60-70, 72-78, 80-83, 90, 91.
(1W0P) any RELATED FACTORS-PERSON LEVEL equals 99,	all factors must equal 99.
(2W0P) any RELATED FACTORS-PERSON LEVEL equals blanks,	all factors must equal blanks.
(3W0P) any RELATED FACTORS-PERSON LEVEL equals 00,	all subsequent factors must equal 00.
(4W1P) A RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) between 08 and 91 can be used only once per person form.	
(8M0F) PERSON TYPE equals 04,	RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 13, 86, 90.
(8Q0F) PERSON TYPE equals 08,	RELATED FACTORS-PERSON LEVEL must not equal 09, 86, 90.
(9M0F) PERSON TYPE equals 05,	RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 13, 21, 26, 40, 42, 51, 52, 57, 68-70, 73-83, 88.
(CK0P) PERSON TYPE equals 07,	RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 09, 13, 69, 70, 86, 87, 90.
(CM0P) PERSON TYPE equals 19,	RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 13, 69, 70, 90.

**Consistency Checks (FARS Only):**

IF	THEN
(5W0P) RELATED FACTORS-PERSON LEVEL equals 18,	SEX must equal 2, and AGE must be greater than 012.

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## **SUPPLEMENTAL**

**THESE ELEMENTS DO NOT APPEAR ON THE CODING FORMS**  
**They are presented on-screen by the M.D.E. System.**

### **PERSON LEVEL ELEMENTS** **Including Coding Instructions**

SP1 – Death Certificate Number

SP2 – Fatal Injury At Work

SP3 – Race/Hispanic Origin

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## **DEATH CERTIFICATE NUMBER**

### **(FARS Only)**

**FORMAT:** Element Completed in MDE

**SAS NAME:** Person.CERT\_NO

**ELEMENT VALUES:**

- 0s Not Applicable (not a fatality)  
Any Numeric Characters
- 9s Unknown

**Definition:** This element identifies the four digit GSA code for the City where the death occurred, the two digit state number and the six digit sequence number from the death certificate as assigned by the State Vital Statistics or Vital Records Department.

**Remarks:**

Code the sequence number from the death certificate as assigned by your State Vital Statistics Department. The sequence number is six digits in length and is part of the State File Number.

The format for coding the numbers is as follows:

First four digits	_ _ _ _	City (where death occurred)
Next two digits	_ _	State (where death occurred)
Last six digits	_ _ _ _ _	Sequence Number (as assigned by State Vital Statistics Department)

If this person is not a fatality, zero-fill this element.

Use GSA codes for the City and State where the death occurred according to the death certificate. These are the same GSA codes you use for the City variables in the Crash Level Form:

- 0000 Not a fatality or death not within city limits and no location code is available
- 0001-9996 GSA Geographical Location Codes
- 9997 Other (Death within city limits, but no GSA code available for this city)
- 9999 Unknown (City where death occurred cannot be found on death certificate).

The State codes are the same those you use for variables C1, V1, D1, PC1, P1 and NM1:

- |    |                |    |         |
|----|----------------|----|---------|
| 00 | Not a fatality | 30 | Montana |
| 01 | Alabama        |    | -       |
| 02 | Alaska         |    | -       |

- - -  
 29 Missouri 56 Wyoming

If the fatal crash occurred in your State, but the death occurred in a hospital of another State, please attempt to obtain the death certificate from that State and code the City and State where the death occurred.

If a person dies at the crash scene, code the appropriate city code or location code for the crash location. Code "0000" if the location is not within a city, and no geographical location code is available.

If the location is not within a city, but a geographical location code is available, use the location code.

If a person is transported by EMS and dies en-route or at the hospital, use the city code for the hospital's location.

Code the exact sequence number as indicated on the death certificate. If the sequence number is less than six-digits long (e.g., it is 12345 (five digits)) right-justify your coded number and zero-fill the first (and/or second digit) (e.g., \_0\_1\_2\_3\_4\_5\_).

Note that if you receive a copy of the death certificate from the Medical Examiner or Coroner, it may not contain the sequence number. The sequence number needed is the one assigned by your State Vital Statistics or Vital Records Department, which is subsequently sent to the National Center for Health Statistics. In those instances, leave the sequence number blank until you are able to obtain it in a follow-up effort with your Vital Statistics Department.

If the sequence number contains a letter in it (e.g., N12345), simply ignore the letter and code the numbers only (right-justified), (e.g., \_0\_1\_2\_3\_4\_5\_).

If the death certificate number cannot be obtained, "9-fill" this element.

If the death certificate number can be obtained, but is not yet received, leave this element blank until the number is available.

#### **Consistency Checks:**

IF	THEN
(7E0P) INJURY SEVERITY equals 4,	DEATH CERTIFICATE NUMBER must NOT equal 0000-00-000000.
(7F0P) DEATH CERTIFICATE NUMBER is not blank or 0000-00-000000,	INJURY SEVERITY must equal 4.

## **FATAL INJURY AT WORK**

### **(FARS Only)**

**FORMAT:** 1 numeric

**SAS NAME:** Person.WORK\_INJ

**ELEMENT VALUES:**

- |   |                                 |
|---|---------------------------------|
| 0 | No                              |
| 1 | Yes                             |
| 8 | Not Applicable (not a fatality) |
| 9 | Unknown                         |

**Definition:** This element indicates if the death certificate identified this person as being "at work" at the time of the crash.

**Remarks:**

**THIS ELEMENT DOES NOT APPEAR ON THE CODING FORMS.** It is presented on-screen by the M.D.E. System.

**THE DEATH CERTIFICATE ALSO INDICATES WHETHER THE VICTIM WAS ON-THE-JOB AT THE TIME OF FATAL INJURY.**

**0 (No)** is used if the injury was not at work.

**1 (Yes)** is used if the injury was on the job.

**8 (Not Applicable (not a fatality))** is used if the victim was not a fatality use.

**9 (Unknown)** is used if the death certificate does not indicate whether the injury was at work or if you do not have access to death certificate information

**FATAL INJURY AT WORK SHOULD ONLY BE DETERMINED FROM THE DEATH CERTIFICATE, NOT FROM ANY OTHER SOURCE. HOWEVER, IT IS NOT NECESSARY TO HAVE A COPY OF THE DEATH CERTIFICATE.**

**Consistency Checks:**

IF	THEN
----	------

- |  |                                   |
|--|-----------------------------------|
| (7R0P) FATAL INJURY AT WORK equals<br>0, 1, 9, | INJURY SEVERITY must equal 4.     |
| (7W0P) FATAL INJURY AT WORK equals 8,          | INJURY SEVERITY must not equal 4. |

	<b>IF</b>	<b>THEN</b>
(P1A0)	AGE is less than 012, and INJURY SEVERITY equals 4,	FATAL INJURY AT WORK should equal 0.
(P130)	BODY TYPE equals 60-67, 71, 72, 78, 79, and PERSON TYPE equals 01, 03, and INJURY SEVERITY equals 4,	FATAL INJURY AT WORK should equal 1.

## **RACE/HISPANIC ORIGIN** **(FARS Only)**

**FORMAT:** 2 numeric

**SAS NAME:** Person.RACE, Person.HISPANIC

**ELEMENT VALUES:**

**Detail Race:**

- 1 Not a Fatality (not applicable)
- 2 White
- 3 Black
- 4 American Indian (includes Aleuts and Eskimos)
- 5 Chinese
- 6 Japanese
- 7 Hawaiian (includes part-Hawaiian)
- 8 Filipino
- 18 Asian Indian
- 19 Other Indian (includes South and Central America, any others, except American or Asian Indians)
- 28 Korean
- 38 Samoan
- 48 Vietnamese
- 58 Guamanian
- 68 Other Asian or Pacific Islander
- 78 Asian or Pacific Islander, No Specific (individual) Race
- 97 Multiple Races (Individual races not specified; ex. "mixed" )
- 98 All Other Races
- 99 Unknown

**Hispanic Origin:**

- 1 Not a Fatality (not applicable)
- 2 Mexican
- 3 Puerto Rican
- 4 Cuban
- 5 Central or South American
- 6 European Spanish
- 7 Hispanic, Origin not Specified or Other Origin
- 8 Non-Hispanic
- 99 Unknown

**Definition:** This element indicates the race and Hispanic origin of this person from the death certificate.

**Remarks:**

Race and Hispanic Origin should be obtained from the death certificate only.

**THIS ELEMENT DOES NOT APPEAR ON THE CODING FORMS:** It is presented on-screen by the M.D.E. System.

Both RACE and HISPANIC ORIGIN are coded for fatal victims only (INJURY SEVERITY on this person must be **Fatal Injury**). If INJURY SEVERITY is coded other than **Fatal Injury** on the Person Level, the M.D.E. System will automatically enter "00's" in both the RACE and HISPANIC ORIGIN fields.

In general, the actual race will be written literally (i.e., white, black, Chinese, etc.) on the death certificate. Hispanic Origin comes directly from a check box. Within that box, if Hispanic Origin is "yes" a specific location (i.e., Cuba, Puerto Rico or Mexico) is indicated.

For translating the entries on the death certificate, refer to the table, "Detail Race and Hispanic Origin for FARS." This table is based on the guidelines provided by the Center for Disease Control (CDC). The only exception is Hawaiian. Any race with Hawaiian is coded Hawaiian (See **Hawaiian**).

**DETAIL RACE**

**01 (White)** should be coded for persons listed as White, Mexican, Puerto Rican, Cuban and Caucasian for race.

**06 (Hawaiian [includes part Hawaiian])** should be coded for any person listed as Hawaiian, even if another race is listed as well.

**19 (Other Indian)** includes South and Central America and any other Indians, except American or Asian Indians.

**68 (Other Asian or Pacific Islander)** is used when an "Other Asian" or "Pacific Island" race is specified, and it is other than **04 (Chinese)**, **05 (Japanese)**, **06 (Hawaiian)**, **07 (Filipino)**, **18 (Asian Indian)**, **28 (Korean)**, **38 (Samoan)**, **48 (Vietnamese)**, or **58 (Guamanian)**.

**78 (Asian or Pacific Islander, No Specific [individual] Race)** is used when the death certificate or report lists "Asian" for race.

**97 (Multiple Races)** is used when the death certificate indicates more than one race without specifying the individual races (e.g., "mixed," "multiple races," "multi-racial," etc.)

**98 (All Other Races)** is used if an individual race listed on the death certificate or report is not found on the translation table

If more than one race is listed on the death certificate or report, code the race entry listed first. An example is "American Indian/White," which should be coded **03 (American Indian)**. Again, **06 (Hawaiian)** is the exception. (See **06 (Hawaiian)**.)

## **HISPANIC ORIGIN**

**06 (Hispanic Origin Not Specified, or Other Origin).** This includes when you know they are Hispanic, but the specific origin is not specified (e.g., Hispanic, Latino, Latin American, South American).

**99 (Unknown).** This person could be Hispanic, or not. You don't have enough information to determine whether or not they are Hispanic. (E.g., all you know is that Race is "White," "Black," "European," or "Indian," and no other information is provided.)

If you receive a listing from the Vital Statistics Department, be sure you request a translation table for the code structure. For FARS, we tried to match the coding structure to the National Center for Health Statistics (NCHS) coding structure for these elements; however, it was necessary to modify NCHS's structure slightly in order to be consistent with other FARS codes. (Reference: National Center for Health Statistics. Documentation for the Mortality Public Use Data Set, 1999. Available at URL:

<http://www.cdc.gov/nchs/data/dvs/Mort99doc.pdf>.

### **Consistency Checks:**

IF	THEN
(7E1P) INJURY SEVERITY equals 4,	RACE must not equal 00.
(7E2P) INJURY SEVERITY equals 4,	HISPANIC ORIGIN must not equal 00.
(7E3P) INJURY SEVERITY does not equal 4,	RACE AND HISPANIC ORIGIN must equal 00.
(7F1P) RACE equals 00,	INJURY SEVERITY must not equal 4.
(7F2P) HISPANIC ORIGIN equals 00,	INJURY SEVERITY must not equal 4.
(7F3P) RACE is not equal to 00, and HISPANIC ORIGIN is not equal to 00,	INJURY SEVERITY must equal 4.

## DETAIL RACE AND HISPANIC ORIGIN FOR FARS

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Race (CDC)	Ancestry/ Ethnicity (CDC)	Country	Region	CDC Race*	CDC Ethnic*	FARS Detail Race	FARS Hispanic Origin	
Aryan				1	--	01	99	
Asian	Asian			9	22	78	07	
Asian Indian	Asian Indian			9	21	18	07	
Asiatic				9	--	78	07	
Assyrian	Assyrian			1	22	01	07	
Athapaskan				3	--	03	07	
Australian	Australian	Australia	Australasia & Pacific	1	20	01	07	
Austrian	Austrian	Austria	Europe	1	16	01	07	
		Azerbaijan	Europe	--	--	01	07	
Azores	Azorean	Azores	Europe	1	19	01	07	
Bahamian	Bahamian	Bahamas		6	99	98	07	
	Bahrain	Bahrain	Middle East	--	22	01	07	
	Baleanc Islands			--	05	01	05	
Bangladeshi	Bangladesh	Bangladesh	Asia	9	21	68	07	
		Barbados		--		02	07	
Basque	Basque			1	05	01	05	
Bavarian	Bavarian			1	--	16	01	07
	Belgian	Belgium	Europe	--	16	01	07	
Belizian	Belizian	Belize	Central America	6	04	98	04	
	Belorussian, Byelorussian	Belarus	Europe	--	18	01	07	
Bengali	Bengali			6	21	98	07	
	Benin	Benin	Africa	--	24	99	07	
	Bermudan	Bermuda		--	15	99	07	
	Bhutanese	Bhutan	Asia	--	21	68	07	
Bilatian	Bilatian		Africa	2	24	02	07	
Black	Black			2	24	02	07	
Blanc				1	--	01	99	

\* SEE NATIONAL CENTER FOR HEALTH STATISTICS (NCHS) CODES

2014

## DETAIL RACE AND HISPANIC ORIGIN FOR FARS

2014

Race (CDC)	Ancestry/ Ethnicity (CDC)	Country	Region	CDC Race*	CDC Ethnic*	FARS Detail Race	FARS Hispanic Origin
Bohemian	Bohemian			1	18	01	07
Bolivian	Bolivia (Boliviano)	Bolivia	South America	1	04	01	04
	Boricua (Borinquano)			--	05	99	05
		Bosnia-Herzegovna	Europe	--	--	01	07
	Botswana	Botswana	Africa	--	24	99	07
Brava (Bravo)				1	--	01	99
Brazilian	Brazilian	Brazil	South America	1	15	01	04
	British			--	08	99	07
British Honduran		(See Belize)		0	--	98	04
Brown				2	--	02	99
		Brunei	Asia	--	--	68	07
	Bulgarian	Bulgaria	Europe	--	18	01	07
		Burkina Faso	Africa	--	--	99	07
Burmese	Burmese	Burma (Also Myanmar)	Asia	9	20	68	07
	Burundi	Burundi	Africa	--	24	99	07
Cajun	Cajun			1	15	01	07
	California			--	05	99	05
Cambodian	Cambodian	Cambodia	Asia	9	20	68	07
	Cameroon	Cameroon	Africa	--	24	99	07
Canadian	Canadian	Canada	North America	1	15	01	07
Canadian Indian				3	--	03	07
Canadian Mexican				3	--	03	01
	Canary Islands			--	05	99	05
	Cantonese			--	20	78	07
Cape Verde	Cape Verdean	Cape Verde	Africa	2	24	02	07
Carib				6	--	98	99
	Castillan			--	05	01	05

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## DETAIL RACE AND HISPANIC ORIGIN FOR FARS

Race (CDC)	Ancestry/ Ethnicity (CDC)	Country	Region	CDC Race*	CDC Ethnic*	FARS Detail Race	FARS Hispanic Origin
	Catalonia			--	05	01	05
Caucasian	Caucasian			1	99	01	07
		Cayman Islands		--		99	99
	Celltic			--	08	01	07
	Central African Republic	Central African Republic	Africa	---	24	02	07
	Central European			--	99	99	99
	Centroamericano			--	04	99	04
Ceylonese	Ceylonese			9	21	68	07
	Chad	Chad	Africa	--	24	99	07
Chamorro	Chamorro			9	20	68	07
Chicano	Chicano			1	01	01	01
Chicano/Mex/American				1	--	01	01
	Chile (Chilano)	Chile	South American	--	04	01	04
Chinese	Chinese	China	Asia	4	20	04	07
Chinese/White				4	--	04	99
Colombian	Colombia (Colombiano)	Colombia	South America	1	04	01	04
Colored				2	--	02	99
		Comoros	Africa	--	--	99	07
	Congolese	Congo (Republic of)	Africa	--	24	99	07
Costa Rican	Costa Rica (Constarricense)	Costa Rica	Central America	1	04	01	04
Creole	Creole			1	16	01	99
	Croatian	Croatia	Europe	--	19	01	07
Crucian				1	--	01	99
Cuban	Cuban	Cuba		1	03	01	03
	Cypriot	Cyprus	Europe	--	22	01	07
Czechoslovakian	Czechoslovakian	Czech Republic	Europe	1	18	01	07
	Dahomey		Africa	--	24	02	07

\* SEE NATIONAL CENTER FOR HEALTH STATISTICS (NCHS) CODES

## DETAIL RACE AND HISPANIC ORIGIN FOR FARS

2014

Race (CDC)	Ancestry/ Ethnicity (CDC)	Country	Region	CDC Race*	CDC Ethnic*	FARS Detail Race	FARS Hispanic Origin
Danish	Danish	Denmark	Europe	1	12	01	07
		Djibouti	Africa	--	--	99	07
		Dominica		--		99	99
Dominican	Dominican Republic	Dominican Republic		2	04	02	04
	Dutch	Netherlands	Europe	--	16	01	07
Dutch East Indian				9	--	68	99
East Indian	East Indian			9	20	68	07
	Eastern European			--	18	99	07
Ebian				1	--	01	99
Ecuadorian	Ecuador (Ecuatoriano)	Ecuador	South America	1	04	01	04
Egyptian	Egyptian	Egypt	North Africa	1	23	01	07
	El Salvador	El Salvador	Central America	--	04	98	04
English	English			1	08	01	07
		England	Europe	--	--	99	99
English-French			Europe	1	--	01	07
English-Irish			Europe	1	--	01	07
	Equatorial Guinea	Equatorial Guinea	Africa	--	24	99	07
Eritrean		Eritrea	Africa	2	--	02	07
Eskimo, Eskimoan	Eskimo, Eskimoan			3	07	03	07
	Espana, (Espanol)			--	05	01	05
	Estonian	Estonia	Europe	--	18	01	07
Ethiopia(n)	Ethiopian	Ethiopia	Africa	2	24	02	07
Eurasian	Eurasian			9	22	78	99
European	European			1	99	01	99
	Falkland Islands	Falkland Islands	South America	--	04	01	07
	Fernando PO			--	05	99	05
Fijian	Fijian	Fiji	Australasia & Pacific	9	20	68	07

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## DETAIL RACE AND HISPANIC ORIGIN FOR FARS

Race (CDC)	Ancestry/ Ethnicity (CDC)	Country	Region	CDC Race*	CDC Ethnic*	FARS Detail Race	FARS Hispanic Origin
Filipino	Filipino	Philippines	Asia	8	20	07	07
Finnish	Finnish	Finland	Europe	1	17	01	07
	Flemish		Europe	--	16	01	07
	Franco American			--	11	99	07
French	French	France	Europe	1	11	01	07
French Canadian	French Canadian			1	15	01	07
		French Guiana		--		99	99
French Indian (American)	French Indian			3	07	03	07
French Indian (India)				9__	--	18	07
		French Polynesia		--		68	07
	Gabonese	Gabon	Africa	--	24	99	07
	Galapagos Islands			--__	04	01	04
	Gambian	Gambia	Africa	--	24	99	07
	Georgian	Georgia	Europe	--	18	01	07
German	German	Germany	Europe	1	10	01	07
Ghanaian	Ghanaian	Ghana	Africa	2	24	02	07
Gilbertese				9	--	68	07
	Great Russian			--	18	01	07
Greek	Greek	Greece	Europe	1	19	01	07
	Greenland	Greenland		--	15	99	07
		Grenada		--		02	07
		Guadeloupe		--		99	99
Guamanian	Guamanian	Guam		9__	20	58	07
Guatemalan	Guatemala (Guatemalteco)	Guatemala	Central America	6__	04	98	04
	Guinean	Guinea	Africa	--	24	99	07
		Guinea-Bissau	Africa	--	--	99	07
Guyanese	Guyanaq	Guyana	South America	0	15	99	07

\* SEE NATIONAL CENTER FOR HEALTH STATISTICS (NCHS) CODES

## DETAIL RACE AND HISPANIC ORIGIN FOR FARS

2014

Race (CDC)	Ancestry/ Ethnicity (CDC)	Country	Region	CDC Race*	CDC Ethnic*	FARS Detail Race	FARS Hispanic Origin
Gypsy	Gypsy			1	22	01	07
Haitian	Haitian	Haiti		2	15	02	07
Hamitic				2	--	02	07
Hawaiian	Hawaiian			7	20	06	07
Hawaiian/Part Hawaiian				7	--	06	07
Hebrew	Hebrew			1	22	01	07
Hindu	Hindu			9	21	78	07
Hispanic	Hispanio			1	05	01	06
Hmong	Hmong			9	20	68	07
Honduran	Honduras (Hondureno)	Honduras	Central America	6	04	98	04
	Hong Kong	Hong Kong	Asia	--	20	78	07
Hungarian	Hungarian	Hungary	Europe	1	18	01	07
	Iberian (Ibero)			--	05	01	05
Icelandic	Icelandic	Iceland	Europe	1	17	01	07
India				9	--	18	07
Indian (From India)	Indian (From India)	India	Asia	9	21	18	07
Indian (American)				3	--	03	07
Indian (Argentina)				6	--	98	04
Indian (AM,AK,CN,MX)				3	--	03	99
Indo-Aryan				9	--	78	07
Indonesian	Indonesian	Indonesia	Asia	9	20	68	07
Iran(ian)	Iranian	Iran	Middle East	1	22	01	07
Iraqi	Iraqi	Iraq	Middle East	1	22	01	07
Irish	Irish	Ireland	Europe	1	09	01	07
Islamic				1	--	01	07
Israeli	Israeli	Israel	Middle East	1	22	01	07
Italian	Italian	Italy	Europe	1	14	01	07

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## DETAIL RACE AND HISPANIC ORIGIN FOR FARS

Race (CDC)	Ancestry/ Ethnicity (CDC)	Country	Region	CDC Race*	CDC Ethnic*	FARS Detail Race	FARS Hispanic Origin
	Ivory Coast	Ivory Coast/Cote D'Ivoire	Africa	--	24	02	07
Jackson (Jack) White				6	--	98	99
Jamaican	Jamaican	Jamaica		2	15	02	07
Japanese	Japanese	Japan	Asia	5	20	05	07
Java	Javanese			9	20	68	07
Jew	Jewish			1	99	01	99
Jordanian	Jordanian	Jordan	Middle East	1	22	01	07
	Kashmirian			--	21	99	07
		Kazakhstan	Asia	--	--	68	07
Kenyan	Kenyan	Kenya	Africa	2	24	02	07
		Kiribati		--		99	99
Korean	Korean	Korea-North	Asia	9	20	28	07
Korean	Korean	Korea-South	Asia	9	20	28	07
Kuwaitian	Kuwaiti	Kuwait	Middle East	1	22	01	07
		Kyrgyzstan	Asia	--	--	68	07
Ladina				1	--	01	99
	La Raza			--	05	01	01
Laotian	Laotian	Laos	Asia	9	20	68	07
Latin American	American			1	05	01	06
	Latino			--	05	01	06
Latvian	Latvian	Latvia	Europe	1	18	01	07
Lebonese	Lebonese	Lebanon	Middle East	1	22	01	07
	Lesotho	Lesotho	Africa	--	24	99	07
Liberian	Liberian	Liberia	Africa	2	24	02	07
Libyan	Libyan	Libya	North Africa	1	23	01	07
		Liechtenstein	Europe	--	--	01	07
Lithuanian	Lithuanian	Lithuania	Europe	1	18	01	07

\* SEE NATIONAL CENTER FOR HEALTH STATISTICS (NCHS) CODES

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## DETAIL RACE AND HISPANIC ORIGIN FOR FARS

2014

Race (CDC)	Ancestry/ Ethnicity (CDC)	Country	Region	CDC Race*	CDC Ethnic*	FARS Detail Race	FARS Hispanic Origin
		Luxembourg	Europe	--	--	01	07
		Macau		--		04	07
		Macedonia	Europe	--	--	01	07
	Madagascan	Madagascar	Africa	--	24	99	07
	Majorca			--	05	99	05
Malawian	Malawi	Malawi	Africa	2	24	02	07
Malayan	Malaysian	Malaysia	Asia	9	20	68	07
		Maldives	Asia	--		99	07
	Mali	Mali	Africa	--	24	99	07
	Mallorca (Mallorquin)			--	05	99	05
Maltese	Maltese	Malta	Europe	1	19	01	07
Maori	Maori			9	20	68	07
Marshalliese		Marshall Islands	Australasia & Pacific	9	--	68	07
Marshenese				1	--	01	99
		Martinique		--		02	07
Mauritian	Mauritanian	Mauritania	Africa	1	24	01	07
	Mauritius	Mauritius	Africa	--	24	99	07
Mediterranean				1	--	01	99
Melanesian	Melanesian			9	20	68	07
Mestizo				6	--	03	04
Mestizo-Inca				6	--	03	04
Mexican	Mexican (Mexicano)	Mexico	North America	1	01	01	01
Mexican Indian				3	--	03	01
	Mexican American			--	01	99	01
Micronesian	Micronesian			9	20	68	07
Mixed	Mixed			6	99	98	99
Mohammed Ali				6	--	98	07

\* SEE NATIONAL CENTER FOR HEALTH STATISTICS (NCHS) CODES

911

912

2014

## DETAIL RACE AND HISPANIC ORIGIN FOR FARS

Race (CDC)	Ancestry/ Ethnicity (CDC)	Country	Region	CDC Race*	CDC Ethnic*	FARS Detail Race	FARS Hispanic Origin
Mohammedan (Moslem)				1	--	01	07
		Moldova	Europe	--	--	01	07
		Monaco	Europe	--	--	01	07
Mongolian	Mongolian	Mongolia	Asia	--	20	68	07
		Montenegro		--		01	07
Moor(ish)				6	--	98	07
Moroccan	Moroccan	Morocco	North Africa	1 --	23	01	07
	Moslem			--	99	99	99
Mugandan				2	--	02	99
Mullato				2	--	02	99
Muslim	Muslim			1	99	01	99
		Mozambique	Africa	--	--	02	07
		Myanmar (also Burma)	Asia	--	--	68	07
		Namibia	Africa	--	--	02	07
Nassau				2	--	02	99
	Native American			--	07	03	07
		Nauru	Australasia & Pacific	--		78	07
Negro	Negro			2	24	02	07
Negro/Indian				2--	--	02	07
Nepalese	Nepali	Nepal	Asia	9	21	68	07
		Netherlands	Europe	--	--	01	07
		Netherlands Antilles		--		99	99
		New Caledonia	Australasia & Pacific	--		78	07
	New Zelander	New Zealand	Australasia & Pacific	-- --	20	99	07
	Newfoundland			-- --	15	01	07
Nicaraguan	Nicaragua (Nicaraguense)	Nicaragua	Central America	6	04	98	04

\* SEE NATIONAL CENTER FOR HEALTH STATISTICS (NCHS) CODES

## DETAIL RACE AND HISPANIC ORIGIN FOR FARS

2014

Race (CDC)	Ancestry/ Ethnicity (CDC)	Country	Region	CDC Race*	CDC Ethnic*	FARS Detail Race	FARS Hispanic Origin
	Niger	Niger	Africa	--	24	02	07
Nipponese (Nipon)	Nipponese			5	20	05	07
Nigerian	Nigerian	Nigeria	Africa	2	24	02	07
Nordic	Nordic (Icelandic)			1	17	01	07
	North American			--	15	99	99
		Northern Ireland	Europe	--	--	01	07
Norwegian	Norwegian	Norway	Europe	1	12	01	07
Nubian				2	--	02	07
Occidental				1	--	01	99
Octaroon				2	--	02	99
Okinawan	Okinawan			5	20	05	07
		Oman	Middle East	--	--	01	07
	Oriental			--	20	78	07
	Pacific Islander			--	20	78	07
Pakistani	Pakistani	Pakistan	Asia	9	21	18	07
Palauan		Palau	Australasia & Pacific	9	--	68	
Palestinian	Palestinian			1	22	01	07
Panamanian	Panama (Panameno)	Panama	Central America	6	04	98	04
		Papua New Guinea	Australasia & Pacific	--		99	07
	Paraguay (Paraguayo)	Paraguay	South America	--	04	98	04
Parsi				1 --	--	01	99
	Pennsylvania Dutch			--	10	01	07
Persian	Persian			1	22	01	07
Peruvian	Peru (Peruano)	Peru	South American	1	04	01	07
Philipino	Philipino	Philippines	Asia	8	20	07	07
Polish	Polish	Poland	Europe	1	13	01	07

\* SEE NATIONAL CENTER FOR HEALTH STATISTICS (NCHS) CODES

913

## DETAIL RACE AND HISPANIC ORIGIN FOR FARS

914

Race (CDC)	Ancestry/ Ethnicity (CDC)	Country	Region	CDC Race*	CDC Ethnic*	FARS Detail Race	FARS Hispanic Origin
Polynesian	Polynesian			9	20	68	07
Ponapean				9	--	68	07
Portuguese	Portuguese	Portugal	Europe	1	19	01	07
	Prussia			--	10	01	07
Puerto Rican	Puerto Rican (Puertorriqueno)	Puerto Rico		1	02	01	02
Punjabi	Punjabi			9	20	68	07
	Qatar	Qatar	Middle East	--	22	99	07
Quadroon				2	--	02	99
Red	Red			3	07	03	07
Rhodesian		Rhodesia		--	24	02	07
		Reunion	Africa	--	--	99	07
Romanian		Romania	Europe	1	--	01	07
	Romany			--	22	99	07
Rotanese				9	--	68	99
	Rumanian			--	18	99	07
Russian	Russian	Russia	Europe	1	18	01	07
	Rwanda	Rwanda	Africa	--	24	02	07
Ryukyan				5	--	05	07
Salpanese				9	--	68	99
Salvadorian	Salvadoreno			6	04	98	04
Samoa(n)	Samoan	American Samoa	Australasia & Pacific	9	20	38	07
		Saint Kitts-Nevis		--		02	07
		Saint Lucia		--		02	07
		Saint Vincent		--		02	07
		San Marino		--		01	07
		Sao Tome and Principe	Africa	---	--	02	07

\* SEE NATIONAL CENTER FOR HEALTH STATISTICS (NCHS) CODES

2014

## DETAIL RACE AND HISPANIC ORIGIN FOR FARS

2014

Race (CDC)	Ancestry/ Ethnicity (CDC)	Country	Region	CDC Race*	CDC Ethnic*	FARS Detail Race	FARS Hispanic Origin
Saudia-Arabian	Saudi Arabian	Saudi Arabia	Middle East	1	22	01	07
Saxon(y)				1	--	01	07
Scandinavian	Scandinavian			1	12	01	07
Scotch	Scottish	Scotland	Europe	1	08	01	07
	Scotch-Irish			--	08	01	07
Selawik				3	--	03	07
Semitic				1	--	01	99
		Senegal	Africa	--	--	02	07
Serbian	Serbian	Serbia	Europe	1	19	01	07
	Serbo-Croation			--	19	01	07
Servian				1	--	01	99
Seychelloise		Seychelles	Africa	2	--	02	07
Siamese	Siamese			9	20	68	07
Sicilian	Sicilian			1	14	01	07
	Sierra Leone	Sierra Leone	Africa	--	24	02	07
Sikh	Sikhs			9	21	68	07
	Singaporean	Singapore	Asia	--	20	68	07
Singhalease	Singhalease			9	21	68	07
Sino Burman				4	--	04	07
Slovakian	Slovak	Slovakia	Europe	1	18	01	07
	Sloavic (Slovenian)	Slovenia	Europe	--	19	01	07
	Slovikian			--	19	01	07
	Slovish			--	19	01	07
		Solomon Islands	Australasia & Pacific	--		68	07
	Somalian	Somalia	Africa	--	24	99	07
	South African	South Africa	Africa	---	24	99	07
South American				1	--	01	06

915

\* SEE NATIONAL CENTER FOR HEALTH STATISTICS (NCHS) CODES

916

2014

## DETAIL RACE AND HISPANIC ORIGIN FOR FARS

Race (CDC)	Ancestry/ Ethnicity (CDC)	Country	Region	CDC Race*	CDC Ethnic*	FARS Detail Race	FARS Hispanic Origin
	Southern European			--	19	01	99
Spanish	Spain (Spaniard)	Spain	Europe	1	05	01	05
		Sri Lanka	Asia		--	68	07
Sudanese	Sudanese	Sudan	North Africa	2	23	02	07
Sunni				1	--	01	07
	Swaziland			--	24	02	07
Swedish	Swedish	Sweden		1	12	01	07
	Swiss	Switzerland	Europe	--	16	01	07
Syrian	Syrian	Syria	Middle East	1	22	01	07
Tahitian				9	--	68	07
Taimskin				3	--	03	99
Taiwanese	Taiwanese	Taiwan	Asia	4	20	04	07
		Tajikistan	Asia	--	--	68	07
Tamil-Ceylonese				9	--	68	07
Tamil-Malayan				9	--	68	07
Tanzanian	Tanzanian	Tanzania	Africa	2	24	02	07
Teutonic				1	--	01	07
Thai	Thai	Thailand	Asia	9	20	68	07
Tibetan		Tibet		9	--	68	07
	Togolese	Togo	Africa	--	24	02	07
Tongan		Tonga	Australasia & Pacific	9	--	68	07
Triguano				6	--	98	99
Trinidadian	Trinidadian	Trinidad and Tobago		2	15	02	07
Tunisian	Tunisian	Tunisia	North Africa	1	23	01	07
Turk	Turkish	Turkey	Middle East	1	22	01	07
		Turkmenistan	Asia	--	--	68	07

\* SEE NATIONAL CENTER FOR HEALTH STATISTICS (NCHS) CODES

## DETAIL RACE AND HISPANIC ORIGIN FOR FARS

2014

Race (CDC)	Ancestry/ Ethnicity (CDC)	Country	Region	CDC Race*	CDC Ethnic*	FARS Detail Race	FARS Hispanic Origin
		Tuvalu	Australasia & Pacific	--		68	07
Ubontilian				9	--	68	07
Ugandan	Ugandan	Uganda	Africa	2--	24	02	07
Ukrainian	Ukrainian	Ukraine	Europe	1	18	01	07
		United Arab Emirates	Middle East	--	--	01	07
	United Kingdom			--	08	99	07
		United States of America	North America	--	--	99	99
Unknown or Blank	Unknown			0	99	99	99
	Upper Volta		Africa	--	24	99	07
	Uruguay (Uruguayo)	Uruguay	South America	--	04	01	04
Ute				3	--	03	07
		Uzbekistan	Asia	--	--	68	07
	Valencian			--	05	01	05
		Vanuatu	Australasia & Pacific	--		68	07
Venezuela(n)	Venezuela (Venezolano)	Venezuela	South America	1	04	01	04
Vietnam(ese)	Vietnamese	Vietnam	Asia	9--	20	48	07
	Viking			--	12	01	07
W				1	--	01	99
Welsh	Welsh	Wales (United Kingdom)	Europe	1	08	01	07
West Indies (Indian)	West Indian			2	15	02	07
		Western Sahara	Africa	--	--	99	99
		Western Samoa	Australasia & Pacific	--		38	07
White	White			1	99	01	99
	White Russian			----	18	01	07
Wiam (White American)				1	--	01	99

\* SEE NATIONAL CENTER FOR HEALTH STATISTICS (NCHS) CODES

917

## DETAIL RACE AND HISPANIC ORIGIN FOR FARS

918

Race (CDC)	Ancestry/ Ethnicity (CDC)	Country	Region	CDC Race*	CDC Ethnic*	FARS Detail Race	FARS Hispanic Origin
Yapanes				9	--	68	07
	Yellow			--	20	78	07
	Yemen	Yemen	Middle East	--	22	99	07
Yugoslavian	Yugoslavian	Yugoslavia	Europe	1	19	01	07
	Zaire	Zaire	Africa	--	24	02	07
	Zambian	Zambia	Africa	--	24	02	07
	Zanzibar			--	24	02	07
		Zimbabwe	Africa	--	--	02	07
Zoroastrian				1	--	01	07

### NCHS (NATIONAL CENTER FOR HEALTH STATISTICS) RACE CODES

CDC RACE CODE	RACE DISCRIPTION
0	Unknown/Blank
1	White/Mexican/Puerto Rican, Other Caucasian
2	Black
3	Indian (American, Canadian, Alaskan, Aleut/Eskimo)
4	Chinese
5	Japanese
6	Other Non-White
7	Hawaiian/Part Hawaiian
8	Filipino
9	Asian/Pacific Island Other

2014

\* SEE NATIONAL CENTER FOR HEALTH STATISTICS (NCHS) CODES

**DETAIL RACE AND HISPANIC ORIGIN FOR FARS**  
**NCHS (NATIONAL CENTER FOR HEALTH STATISTICS) ANCESTRY CODES**

2014

CDC ANCESTRY CODE	ANCESTRY/ETHNICITY DESCRIPTION
01	Mexican
02	Puerto Rican
03	Cuban
04	Central or South American
05	Other & Unknown Spanish
06	"American"
07	Indian (American, Alaskan, Canadian or Mexican Indian, Eskimo & Aleut)
08	English, Scottish, Welsh, Scotch-Irish
09	Irish
10	German
11	French
12	Norwegian, Swedish, Danish
13	Polish
14	Italian
15	Other North, Central and South American or Canadian
16	Other Western European
17	Other Northern European
18	Other Eastern European
19	Other Southern European (Excluding Spain)
20	Southwest Asian & Pacific Islander
21	South Central Asian
22	Other Asian
23	North African
24	Other African
99	Unknown
Blank	Blank

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\* SEE NATIONAL CENTER FOR HEALTH STATISTICS (NCHS) CODES

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# **APPENDIX**

**2014 CONSISTENCY  
CHECKS**

The following pages contain Consistency Checks,  
Intraconsistency Checks and Special  
Processing Rules.  
It is arranged in alpha/numeric order.

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ERROR CODE	ERROR TEST
050P	If PERSON TYPE equals 04-08, 19, and NUMBER OF VEHICLE FORMS SUBMITTED equals 001, then NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal 001.
060P	If NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is not equal to 000, 999, then the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal some VEHICLE NUMBER in the case, <b><i>and the UNIT TYPE must equal 1.</i></b>
<b>OPB1</b>	<b><i>If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 741, then at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 11.</i></b>
170F	If MONTH equals current month, then DAY must be at least 2 days prior to current day or 99.
1A0P	If RELATED FACTORS-CRASH LEVEL equals 14, then NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.
1A1P	If RELATED FACTORS-CRASH LEVEL equals 05, then ROADWAY SURFACE CONDITIONS must equal 06 for at least one vehicle.
1C0P	If the MODEL YEAR is not equal to 9998 or 9999, then the MODEL YEAR must not be greater than CRASH YEAR plus ONE.
1D0P	If SPECIAL USE equals 01, then BODY TYPE must equal 02-09, 12, 14-21, 28, 29, 49, 99.
1D0Q	If SPECIAL USE equals 00-03, then EMERGENCY MOTOR VEHICLE USE must equal 0.
1F1P	If RELATION TO JUNCTION (b) does not equal 02, 03, then the second TRAFFICWAY IDENTIFIER should be blank.
1G0P	If one RELATED FACTORS-VEHICLE LEVEL equals 99, then both factors must equal 99.
1H0F	If DRIVER PRESENCE equals 0, 9, then PREVIOUS SPEEDING CONVICTIONS must be blank.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
1H1F	If DRIVER PRESENCE equals 0, 9, then DRIVER'S LICENSE STATE must be blank.
1H2F	If DRIVER PRESENCE equals 0, 9, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE must be blank.
1H3F	If DRIVER PRESENCE equals 0, 9, then NON-CDL LICENSE STATUS and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must be blank.
1H4F	If DRIVER PRESENCE equals 0, 9, then COMPLIANCE WITH LICENSE RESTRICTIONS must be blank.
1H6F	If DRIVER PRESENCE equals 0, 9, then VIOLATIONS CHARGED must be blank.
1H7F	If DRIVER PRESENCE equals 0, 9, then PREVIOUS RECORDED CRASHES must be blank.
1H8F	If DRIVER PRESENCE equals 0, 9, then PREVIOUS RECORDED SUSPENSIONS must be blank.
1H9F	If DRIVER PRESENCE equals 0, 9, then PREVIOUS DWI CONVICTIONS must be blank.
1HAF	If DRIVER PRESENCE equals 0, 9, then PREVIOUS OTHER HARMFUL MV CONVICTIONS must be blank.
1HBF	If DRIVER PRESENCE equals 0, 9, then DATE OF LAST CRASH, SUSPENSION, CONVICTION must be blank.
1HCF	If DRIVER PRESENCE equals 0, 9, then DATE OF FIRST CRASH, SUSPENSION, CONVICTION must be blank.
1HDF	If DRIVER PRESENCE equals 0, 9, then DRIVER HEIGHT (feet and inches) must equal blank.
1HEF	If DRIVER PRESENCE equals 0, 9, then DRIVER WEIGHT must equal blank.
1HFF	If DRIVER PRESENCE equals 0, 9, then SPEEDING RELATED must be blank.
1HGF	If DRIVER PRESENCE equals 0 or 9, then DRIVER LICENSE NUMBER must equal blank.

**ERROR CODE    ERROR TEST**

1HJF	If DRIVER'S VISION OBSCURED BY equals 95, then DRIVER PRESENCE must equal 0 or 9.
1IOP	If DRIVER'S LICENSE STATE equals 99, then NON-CDL LICENSE STATUS must not equal 0-4, 6, and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must not equal 00-08.
1J0P	If any counter equals 99, then all counters must equal 99.
1J1P	If any counter equals 99, then DATE OF LAST CRASH, SUSPENSION, CONVICTION must equal 999999.
1J2P	If any counter equals 99, then DATE OF FIRST CRASH, SUSPENSION, CONVICTION must equal 999999.
1K0P	If DRIVER'S LICENSE STATE equals 99, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE must not equal 0-3.
1L0P	If any RELATED FACTORS-DRIVER LEVEL equals blanks, then all RELATED FACTORS-DRIVER LEVEL must equal blanks.
1L2P	If any DRIVER'S VISION OBSCURED BY equals 00 or 95 or 99, then only that one code and no other must be coded for this vehicle.
1L4P	If any DRIVER'S VISION OBSCURED BY equals 09, then at least one CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must equal 97.
1L5P	If any DRIVER'S VISION OBSCURED BY equals 10, then at least one CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must equal 07 or 08 or 09.
1M1F	If RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) equals 13, then PERSON TYPE should equal 08.
1N0F	If PERSON TYPE equals 06, then RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 09, 13, 69, 70, 86, 90.
1N1F	If PERSON TYPE equals 10, then RELATED FACTORS-PERSON LEVEL must not equal 09, 21, 37, 40-42, 51, 52, 56, 57, 60-70, 72-78, 80-83, 90, 91.

ERROR CODE	ERROR TEST
1N2F	If PERSON TYPE equals 10, then at least one NON-MOTORIST SAFETY EQUIPMENT should equal 1.
1N4F	If any NON-MOTORIST SAFETY EQUIPMENT equals 5, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> should not equal 13.
1P2F	If PERSON TYPE equals 10, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.
1P3F	If PERSON TYPE equals 10, then <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must not equal 01-12, 16, and <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> must not equal 01-20.
1P4F	If PERSON TYPE equals 04, then <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must not equal 04, 12.
1P5F	If PERSON TYPE equals 06-08, 19, then <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must not equal 04.
1P7F	If PERSON TYPE equals 04, then <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> should not equal 10, 11.
1P8F	If PERSON TYPE equals 06, 07, then <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> should not equal 10-12.
1P9F	If PERSON TYPE equals 08, then <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> should not equal 11.
1P0G	If PERSON TYPE equals 05, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> must not equal 07, 08, 10, 13-18, 20.
1P1G	If PERSON TYPE equals 19, then <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> should not equal 11, 12.
1P3G	If PERSON TYPE equals 04, 06, 07, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> should not equal 04.
1P4G	If PERSON TYPE equals 04, 06-08, 19, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> should not equal 05.
1P5G	If PERSON TYPE equals 08, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> should not equal 20.

ERROR CODE	ERROR TEST
1P6G	If PERSON TYPE equals 04, 06-08, 19, then CONDITION (IMPAIRMENT) AT TIME OF CRASH must not equal 03.
1P7G	If PERSON TYPE equals 05-07, 19, then CONDITION (IMPAIRMENT) AT TIME OF CRASH should not equal 04.
1P8G	If PERSON TYPE equals 10, then CONDITION (IMPAIRMENT) AT TIME OF CRASH should not equal 01-10, 96.
1P9G	If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 20, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> must not equal 02-04, 15.
1P0H	If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> must not equal 02-04, 07-10, 15, 16, 20.
1P1H	If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 22, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> must not equal 01, 02, 04, 07, 08, <b>11,15</b> , 20.
1P2H	If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 23, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> must not equal 12, 15.
1P3H	If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 24, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> must not equal 01, 03, 04, 10, <b>11</b> .
1P4H	If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 25, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> must not equal 01-04, <b>10-12</b> , 15-17, 20.
1P5H	If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 28, 98, 99, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> should not equal 01, 03, 04, <b>10-12</b> , 15, 16, 20.
1P6H	If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 16, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> should not equal 04, 16.
1P7H	If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> should not equal 01, 05, <b>11</b> , 12, 17.

ERROR CODE	ERROR TEST
1P8H	If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 23, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> should not equal 02.
1P9H	If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 24, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> should not equal 02, 05, 12, 15, 16.
1PH0	If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 25, then <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> should not equal 07-09.
1PK2	<b>If NON-MOTORIST LOCATION AT TIME OF CRASH equals 21, then SIDEWALK PRESENT must equal 1.</b>
1PK3	<b>If NON-MOTORIST LOCATION AT TIME OF CRASH equals 01 or 10, then MARKED CROSSWALK PRESENT must equal 1.</b>
1Q0F	If PERSON TYPE equals 01, and BODY TYPE equals 80-83, 88, 89, then SEATING POSITION must not equal 12-55, 99.
1R0P	If SEATING POSITION equals 51, and BODY TYPE equals 50-52, 55, 58, 59, then INJURY SEVERITY must not equal 0, 9.
1R1P	If DIED AT SCENE/EN ROUTE equals 7, 8, then INJURY SEVERITY must equal 4.
1T0P	If SPEED LIMIT for every vehicle is greater than 55, and not equal to 98 or 99, then ROADWAY FUNCTION CLASS should not equal 15, 16.
1U1F	If INJURY SEVERITY equals 4, then DEATH DATE must not equal 88888888.
1U2F	If INJURY SEVERITY equals 4, then DEATH TIME must not equal 8888.
1V0P	If DEATH MONTH or DAY equals 88, or DEATH YEAR equals 8888, then all must equal 8's.
1W0P	If any RELATED FACTORS-PERSON LEVEL equals 99, then all factors must equal 99.
1Y0P	If RELATION TO JUNCTION (b) equals 06, then RAIL GRADE CROSSING IDENTIFIER must not equal 0000000.

**ERROR CODE    ERROR TEST**

1Z0N	SEQUENCE OF EVENTS for this vehicle should not include more than one occurrence of 01. Please see SEQUENCE OF EVENTS remarks for 01 (Rollover/Overtur) to confirm coding.
1Z1N	SEQUENCE OF EVENTS for this vehicle should not equal 01, 67 consecutively or 67, 01 consecutively.
1Z1P	If any SEQUENCE OF EVENTS equals 66, then ROADWAY GRADE should equal 6 for this vehicle.
1Z2P	If any SEQUENCE OF EVENTS equals 01 and (BODY TYPE equals 01-79, 82, 90-99 or any RELATED FACTORS-VEHICLE LEVEL equals 30), then ROLLOVER must equal 1, 2 or 9.
200P	If CITY is greater than 0000 and less than 9997, and COUNTY is greater than 000 and less than 997, then COUNTY and CITY must be valid codes for the STATE.
210P	If CITY is greater than 0000 and less than 9997, then COUNTY must not equal 999.
220P	If LIGHT CONDITION equals 4, and STATE is not equal to 02, then CRASH TIME must equal 0300-0900, 9999.
2300	If LIGHT CONDITION equals 5, and STATE is not equal to 02, then CRASH TIME must equal 1600-2200, 9999.
250P	If RELATION TO JUNCTION (b) equals 01, 02, 04, 06, 07, 16-19, 98, 99, and RELATION TO TRAFFICWAY equals 03, then TRAFFICWAY DESCRIPTION should equal 2, 3 for at least one vehicle involved in the first harmful event.
251P	If RELATION TO TRAFFICWAY equals 98, 99, then TYPE OF INTERSECTION should equal 98, 99.
252P	<b><i>If RELATION TO TRAFFICWAY equals 01, 02, 03, 04, 07, 08, 10, 11, 98 or 99, then UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the first harmful event must not equal 3.</i></b>
253P	If RELATION TO TRAFFICWAY equals 03, then CRASH TYPE should equal 06-10, 98 or 99 for the in-transport vehicles involved in the first harmful event.

ERROR CODE	ERROR TEST
254P	If RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 20, then TRAFFICWAY DESCRIPTION must equal 6 for at least one vehicle involved in the first harmful event.
255P	<i>If RELATION TO TRAFFICWAY equals 01 or 11, then UNIT TYPE for VEHICLE NUMBER (THIS VEHICLE) involved in the first harmful event must equal 1.</i>
256P	<i>If RELATION TO TRAFFICWAY equals 01 or 11, then UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the first harmful event should equal 1 or 4.</i>
257P	<i>If RELATION TO TRAFFICWAY equals 05, then UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the first harmful event must equal 1, 3 or 4.</i>
260P	If ROUTE SIGNING equals 1, then NATIONAL HIGHWAY SYSTEM must equal 1.
2B0P	If JACKKNIFE equals 1-3, then VEHICLE TRAILING must not equal 0, 9.
2D0P	If SPECIAL USE equals 02, then BODY TYPE should equal 15, 16, 19-21, 28, 29, 45, 48, 50-52, 55, 58, 59.
2F0F	If NUMBER OF OCCUPANTS equals 00, then DRIVER PRESENCE must equal 0.
2G0P	If either RELATED FACTORS-VEHICLE LEVEL equals blanks, then the other factor must also equal blanks.
2H0F	If DRIVER PRESENCE equals 0, 9, then RELATED FACTORS-DRIVER LEVEL must not equal 04, 08, 12, 13, 15, 16, 19, 52, 53, 58, 59, 73, 74, 77-88.
2H1F	If UNIT TYPE equals 1 and DRIVER PRESENCE equals 0 or 9, then DRIVER'S VISION OBSCURED BY must equal 95.
2I0P	If DRIVER'S LICENSE STATE equals 99, then COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 0-3.
2J0P	If all counters are not blanks and PREVIOUS RECORDED CRASHES is not equal to 98 and any counter are not equal to 00, 99, then DATE OF LAST CRASH, SUSPENSION, CONVICTION must not equal 000000, 999999.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
2J1P	If all counters are not blanks and PREVIOUS RECORDED CRASHES is not equal to 98, and any counter are not equal to 00, 99, then DATE OF FIRST CRASH, SUSPENSION, CONVICTION must not equal 000000, 999999.
2K0P	DATE OF FIRST CRASH, SUSPENSION, CONVICTION must be less than or equal to DATE OF LAST CRASH, SUSPENSION, CONVICTION.
2L0P	If any RELATED FACTORS-DRIVER LEVEL equals 99, then all RELATED FACTORS-DRIVER LEVEL must equal 99.
2M0F	If PERSON TYPE equals 01, then SEATING POSITION must not equal 21-55.
2Q0F	If PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 01, 02, 04, 08, 10, 17, 31-33, 39-41, 45, 48, 90, 91, then SEATING POSITION must not equal 31-50.
2R0P	If RESTRAINT SYSTEM/HELMET USE equals 00-04, 07-12, then BODY TYPE must not equal 80-83, 88, 89, 90, 91.
2R1P	If ANY INDICATION OF MIS-USE OF RESTRAINT SYSTEM/HELMET USE equals 1, then RESTRAINT SYSTEM/HELMET USE must equal 01-05, 08-12, 19, 97.
2S0P	If RESTRAINT SYSTEM/HELMET USE equals 05, 16, 17, 19 or 29, then AIR BAG DEPLOYED should equal 00.
2S1P	If RESTRAINT SYSTEM/HELMET USE equals 07, 16 or 17, then ANY INDICATION OF MIS-USE OF RESTRAINT SYSTEM/HELMET USE must equal 0.
2U0P	If BODY TYPE equals 80-83, 88-91, then AIR BAG DEPLOYED should equal 00.
2U0Q	If BODY TYPE equals 80-83, 88, 89, then AREAS OF IMPACT - INITIAL CONTACT POINT should not equal 14.
2U1F	If INJURY SEVERITY is not equal to 4, then DEATH DATE must equal 88888888.
2U2F	If INJURY SEVERITY is not equal to 4, then DEATH TIME must equal 8888.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
2U3F	If INJURY SEVERITY equals 3, then TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 0.
2V0P	If DEATH DAY is 01-31, and DEATH MONTH is 01-12, then DEATH DAY must be a valid day for DEATH MONTH.
2W0P	If any RELATED FACTORS-PERSON LEVEL equals blanks, then all factors must equal blanks.
2Z0F	If any SEQUENCE OF EVENTS equals 12, 14, 45, 54, 55, then NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.
300P	If NATIONAL HIGHWAY SYSTEM equals 0, 9, then ROADWAY FUNCTION CLASS must not equal 01, 11.
320P	If ROADWAY FUNCTION CLASS equals 01, 11, and ROUTE SIGNING does not equal 7, then NATIONAL HIGHWAY SYSTEM must equal 1.
330P	If NATIONAL HIGHWAY SYSTEM equals 0, 9, then ROUTE SIGNING must not equal 1.
340P	If ROUTE SIGNING equals 1, then the first position of TRAFFICWAY IDENTIFIER #1 must be "I" and the second position must be "-".
341P	If the first position of TRAFFICWAY IDENTIFIER #1 equals "I" and the second position equals "-", then ROUTE SIGNING must equal 1 or 7.
350P	If ROUTE SIGNING equals 2, then the first two positions of TRAFFICWAY IDENTIFIER #1 must be "US" and the third position must be "-".
351P	If the first two positions of TRAFFICWAY IDENTIFIER #1 equals "US" and third position equals "-", then ROUTE SIGNING must equal 2 or 7.
360P	If ROUTE SIGNING equals 3, then the first two positions of TRAFFICWAY IDENTIFIER #1 must be "SR" and the third position must be "-".

**ERROR CODE    ERROR TEST**

361P	If the first two positions of TRAFFICWAY IDENTIFIER #1 equals "SR" and third position equals "-", then ROUTE SIGNING must equal 3 or 7.
362P	If ROUTE SIGNING equals 4, then the first two positions of TRAFFICWAY IDENTIFIER #1 must be "CR" and the third position must be "-".
3A0P	If SPECIAL USE equals 07, then BODY TYPE must equal 60-64, 66, 67, 71, 72, 78, 79, 99.
3B0P	If JACKKNIFE equals 2, 3, then TRAVEL SPEED must not equal 000.
3B1P	If CRASH TYPE equals 21-23, then TRAVEL SPEED must equal 000 for this vehicle.
3B2P	If CRASH TYPE equals 20, 24, 28, 34, 36, 38, 40, 50-54, 56, 58 or 60, then AREAS OF IMPACT-INITIAL CONTACT POINT must equal 12 for this vehicle.
3B3P	If CRASH TYPE equals 21-23, 25-27, 29-31, 35, 37, 39 or 41, then AREAS OF IMPACT-INITIAL CONTACT POINT must equal 6 for this vehicle.
3B4P	If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10, then CRASH TYPE must not equal 44-69, 71-73, 76, 77, 79, 81-83, 86-92.
3B5P	If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 11, then CRASH TYPE must not equal 44-67, 69-71, 73, 77-81, 83, 86-92.
3B6P	If CRASH TYPE equals 87, then AREAS OF IMPACT-INITIAL CONTACT POINT must equal 01-05, 81-83 for this vehicle.
3B7P	If CRASH TYPE equals 89, then AREAS OF IMPACT-INTIAL CONTACT POINT must equal 07-11, 61-63 for this vehicle.
3BAP	If UNIT TYPE equals 1, and DRIVER PRESENCE equals 0, then CRASH TYPE must equal 00, 04, 09, 15, 32, 42, 48, 52, 62, 66, 74, 84, 90, 93 or 98.
3BCP	If CRASH TYPE equals 34, 36, 38, 40, 54, 56, 58 or 60, then DRIVER MANEUVERED TO AVOID must not equal 00.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
3BDP	If CRASH TYPE equals 46, 47, and ATTEMPTED AVOIDANCE MANEUVER equals 01 or 99, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 01.
3BEP	If CRASH TYPE equals 01 or 06, and ATTEMPTED AVOIDANCE MANEUVER equals 01, then PRE-IMPACT STABILITY should not equal 2-5 or 7.
3BFP	If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 08 or 09, then CRASH TYPE must not equal 46 or 47.
3BGP	If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00, then DRIVER PRESENCE must equal 0 or 9.
3C00	If CRASH TYPE equals 68, 72, 76 or 82, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11 or 98.
3C0P	If UNIT TYPE equals 1, and EXTENT OF DAMAGE equals 6, then VEHICLE REMOVAL should equal 2, 8, 9.
3C10	If CRASH TYPE equals 70, 78 or 80, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10 or 98.
3C1P	If EXTENT OF DAMAGE equals 0, 2, then VEHICLE REMOVAL must not equal 2.
3C1Q	If EXTENT OF DAMAGE equals 0, 2, then VEHICLE REMOVAL should equal 3 or 5.
3C20	If this vehicle is involved in the first harmful event and its CRASH TYPE equals 29-31, then this vehicle's PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 02.
3C2P	If VEHICLE REMOVAL equals 2, then EXTENT OF DAMAGE must equal 6, 8, 9.
3C30	If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 12, then CRASH TYPE should equal 98.

**ERROR CODE    ERROR TEST**

3C3P	If EXTENT OF DAMAGE equals 6, then VEHICLE REMOVAL must not equal 3.
3C40	If CRASH TYPE equals 46, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 07, 09 or 12.
3C50	If CRASH TYPE equals 92, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 08, 09, 13, 98, 99.
3C60	If CRASH TYPE equals 25-27, 29-31, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should not equal 05 or 07.
3C70	If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13, then CRASH TYPE should equal 92 or 98.
3C80	If CRASH TYPE equals 47, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 06, 08 or 11.
3CA0	If EXTENT OF DAMAGE for this vehicle equals 0, then DAMAGED AREAS must equal 15.
3D00	If CRASH TYPE equals 20-49, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01, then CRITICAL EVENT – PRECRASH (EVENT) should not equal 12-14, 54, 66-68, 71-73 or 80-85.
3D0P	If SPECIAL USE for any vehicle equals 02, then SCHOOL BUS RELATED must equal 1.
3D10	If CRASH TYPE equals 50-67, and ATTEMPTED AVOIDANCE MANEUVER equals 00-01, then CRITICAL EVENT – PRECRASH (EVENT) should not equal 12-14, 51-53, 60, 61, 65, 66, 70, 71, 80-85 or 87-92.
3D50	If PRE-IMPACT STABILITY equals 1, then CRASH TYPE should not equal 02, 07, 34, 36, 54 or 56.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
3D60	If CRASH TYPE equals 46 or 47, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should not equal 01.
3D70	If CRITICAL EVENT – PRECRASH (EVENT) equals 01-04, then CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must not equal 00.
3DB0	If any CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE equal 00 or 98 or 99, then only that one code and no other must be coded for this vehicle.
3E00	If CRITICAL EVENT – PRECRASH (EVENT) equals 65-68 or 70-73, then RELATION TO JUNCTION (b) should not equal 01 or 18.
3G0P	If the first RELATED FACTORS-VEHICLE LEVEL equals 00, then the other factor must also equal 00.
3H0F	If DRIVER PRESENCE equals 1, then there must be one and only one Person Level form for that vehicle with PERSON TYPE equal to 01, or there must be no Person Level form for that vehicle with PERSON TYPE equal to 01, and at least two Person Level forms for that vehicle with PERSON TYPE equal to 09.
3I1P	If DRIVER'S LICENSE STATE equals 99, then all driver history counters PREVIOUS RECORDED CRASHES must equal 99.
3I2P	If DRIVER'S LICENSE STATE equals 99, then all driver history counters PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS must equal 99.
3I3P	If DRIVER'S LICENSE STATE equals 99, then all driver history counters PREVIOUS DWI CONVICTIONS must equal 99.
3I4P	If DRIVER'S LICENSE STATE equals 99, then all driver history counters PREVIOUS SPEEDING CONVICTIONS must equal 99.
3I5P	If DRIVER'S LICENSE STATE equals 99, then all driver history counters PREVIOUS OTHER HARMFUL MV CONVICTIONS must equal 99.
3J0P	If all counters equal 00, then DATE OF LAST CRASH, SUSPENSION, CONVICTION must equal 000000.

**ERROR CODE    ERROR TEST**

3J1P	If all counters equal 00, then DATE OF FIRST CRASH, SUSPENSION, CONVICTION must equal 000000.
3K0P	DATE OF LAST CRASH, SUSPENSION, CONVICTION must be less than or equal to CRASH DATE.
3L0P	If any RELATED FACTORS-DRIVER LEVEL equals 00, then all remaining RELATED FACTORS-DRIVER LEVEL must equal 00.
3M0F	If PERSON TYPE equals 01, then RESTRAINT SYSTEM/ HELMET USE must not equal 04, 10-12.
3P0F	If PERSON TYPE equals 03-08, 10, 19, then INJURY SEVERITY should not equal 6.
3Q0F	If PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 01-17, 19, 20, 22, 28-33, 39, 41, 42, 50-52, 55, 58, 59, 65, 80-83, 88-92, 94, 95, 97, then SEATING POSITION must not equal 50.
3R0P	If AIR BAG DEPLOYED does not equal 00, 98 or 99, then SEATING POSITION should not equal 12, 22, 32, 41-55.
3S0P	If SEATING POSITION equals 55, then EJECTION must equal 8.
3U0P	If DEATH DATE equals CRASH DATE, and CRASH TIME is not equal to 9999, then DEATH TIME must not be less than CRASH TIME.
3W0P	If any RELATED FACTORS-PERSON LEVEL equals 00, then all subsequent factors must equal 00.
420P	If MANNER OF COLLISION equals 07, 08, then there must be at least two vehicle forms with AREAS OF IMPACT-INITIAL CONTACT POINT equal to 01-05, 07-11, 61-63, 81-83, 98, 99.
421P	If MANNER OF COLLISION equals 01, then AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 12, and AREAS OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 06.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
422P	If MANNER OF COLLISION equals 02, then AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 12, and AREAS OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 12.
423P	If MANNER OF COLLISION equals 06, then AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 01, 11, 12, 98, 99, and AREAS OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 01-05, 07-11, 61-63, 81-83, 98, 99.
424P	If MANNER OF COLLISION equals 09, then AREAS OF IMPACT- CONTACT POINT for one vehicle in the first harmful event must equal 06, and AREAS OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 01-05, 07-11, 61-63, 98, 99.
425P	If MANNER OF COLLISION equals 10, then AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 06, and AREAS OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 06, 98, 99.
426P	If MANNER OF COLLISION equals 02, then CRASH TYPE must not equal 64-67 for the vehicles involved in the first harmful event.
427P	If MANNER OF COLLISION equals 06, then CRASH TYPE must not equal 20-43 or 50-53 for the vehicles involved in the first harmful event.
428P	If CRASH TYPE equals 20-91, then NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.
429P	If NUMBER OF VEHICLE FORMS SUBMITTED equals 001, then CRASH TYPE must equal 00, 01-16, 92, 98, 99.
42AP	If NUMBER OF MOTOR VEHICLES FORMS SUBMITTED equals 001, and RELATION TO TRAFFICWAY equals 02, 04, 06-08, and ATTEMPTED AVOIDANCE MANEUVER equals 00 or 01, then CRITICAL EVENT - PRECRASH (EVENT) should equal 01-06, 08-14 or 19.

**ERROR CODE    ERROR TEST**

42BP	<i>If there is only one vehicle involved in the First Harmful Event where UNIT TYPE equals 1, then the number of vehicles where CRASH TYPE is coded 00, 1-16, 92, 93 or 99 (excluding from the vehicles being counted, those where CRASH TYPE equals 98) must not equal 0 or be greater than 1.</i>
42CP	If there are two vehicles involved in the FIRST HARMFUL EVENT, then those two vehicles' CRASH TYPES must belong to the same CRASH TYPE Configuration.
431P	<i>If NUMBER OF VEHICLE FORMS SUBMITTED equals 02 and UNDERRIDE/OVERRIDE equals 1-8 9 for one vehicle, then UNDERRIDE/OVERRIDE for the other vehicle must equal 0.</i>
432P	<i>If NUMBER OF VEHICLE FORMS SUBMITTED equals 01, UNDERRIDE/OVERRIDE must equal 0.</i>
440F	If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 01, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 01-03, 09-11, 13, 16, 23, 98 or 99.
450F	If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 07, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 14.
460F	If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 02, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 02, 20.
470F	If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 03, 08, 10, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 20, 22, 98, 99.
480F	If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 04, 06, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 16, 20, 21, 24, 25, 28, 98, 99.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
490F	If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 05, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 24, 25.
4A0P	If BODY TYPE equals 80-83, 88, 89, then SPECIAL USE must not equal 01-03, 06, 07.
4C1P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 01-05, 07-09, 14, 15, 17, 19, 94, 95, 97, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS must not be greater than 20.
4C2P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 06, 11, 16, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS must not be greater than 22.
4C3P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 12, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS must not be greater than 25.
4C4P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 80-83, 88, 89, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS must not be greater than 5.
4C5P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 42, 73, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS must not be greater than 30.
4C6P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 60-65, 71, 72, 79, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS must not be greater than 55.
4C7P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 66, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS must not be greater than 77.
4C8P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 91, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS must not be greater than 10.
4C9P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 90, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS must not be greater than 20.

**ERROR CODE    ERROR TEST**

4C0P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 99, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS must not be greater than 10.
4D0P	If SPECIAL USE equals 03, then BODY TYPE must equal 21, 28, 29, 50-52, 55, 58, 59.
4F1P	If NUMBER OF OCCUPANTS is less than 97, and BODY TYPE equals 01-05, 07- <b>10</b> , <b>13</b> , 17, <b>80-83</b> , <b>88-90</b> , <b>91-95</b> , 97, and VEHICLE TRAILING equals 0, then NUMBER OF OCCUPANTS <u>must not be greater than 15</u> .
4F2P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 06, 11, and VEHICLE TRAILING equals 0, then NUMBER OF OCCUPANTS must not be greater than 22.
4F3P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 12, and VEHICLE TRAILING equals 0, then NUMBER OF OCCUPANTS must not be greater than 25.
4F4P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 80-83, 88, 89, and VEHICLE TRAILING equals 0, then NUMBER OF OCCUPANTS must not be greater than 5.
4F5P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 15, 16, 42, 73, and VEHICLE TRAILING equals 0, then NUMBER OF OCCUPANTS must not be greater than 30.
4F6P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 60-65, 71, 72, 79, and VEHICLE TRAILING equals 0, then NUMBER OF OCCUPANTS must not be greater than 55.
4F7P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 66, and VEHICLE TRAILING equals 0, then NUMBER OF OCCUPANTS must not be greater than 50.
4F8P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 91, and VEHICLE TRAILING equals 0, then NUMBER OF OCCUPANTS must not be greater than 10.
4F9P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 90, and VEHICLE TRAILING equals 0, then NUMBER OF OCCUPANTS must not be greater than 20.

ERROR CODE	ERROR TEST
4F9Q	<i>If NUMBER OF OCCUPANTS is less than 97, and BODY TYPE equals 06, 11, 12, 14-16, 19, and VEHICLE TRAILING equals 0 then NUMBER OF OCCUPANTS should not be greater than 15.</i>
4F0P	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 99, and VEHICLE TRAILING equals 0, then NUMBER OF OCCUPANTS must not be greater than 10.
4G0P	A RELATED FACTORS-VEHICLE LEVEL between <b>30</b> and 44 can be used only once per vehicle form.
4H0F	If DRIVER PRESENCE equals 0, 9, then there must not be a Person Level form for that vehicle with PERSON TYPE equal to 01.
4H1P	If DRIVER HEIGHT/INCHES is less than 12, then DRIVER HEIGHT/FEET must not be blank.
4H2P	If DRIVER HEIGHT/INCHES is greater than 11, then DRIVER HEIGHT/FEET must equal 0.
4H3P	If DRIVER HEIGHT/FEET is 2-8, then DRIVER HEIGHT/INCHES must equal 00-11.
4H4P	If DRIVER HEIGHT/FEET equals 9, then DRIVER HEIGHT/INCHES must equal 99.
4H5P	If DRIVER HEIGHT/INCHES equals 99, then DRIVER HEIGHT/FEET must equal 9.
4H6P	If DRIVER HEIGHT/INCHES equals 98, then DRIVER HEIGHT/FEET must equal 0.
4H7P	If DRIVER HEIGHT/FEET is 0, then DRIVER HEIGHT/INCHES must equal 24-96, 98.
4J0P	If all counters are not blanks, and the sum of all counters less than 98 is equal to 1, then DATE OF LAST CRASH, SUSPENSION, CONVICTION must equal DATE OF FIRST CRASH, SUSPENSION, CONVICTION.
4K0P	If Month of DATE OF LAST CRASH, SUSPENSION, CONVICTION equals 00, then Year (of same) must equal 0000.

**ERROR CODE    ERROR TEST**

4K1P	If Year of DATE OF LAST CRASH, SUSPENSION, CONVICTION equals 0000, then Month (of same) must equal 00.
4K2P	If Month of DATE OF FIRST CRASH, SUSPENSION, CONVICTION equals 00, then Year (of same) must equal 0000.
4K3P	If Year of DATE OF FIRST CRASH, SUSPENSION, CONVICTION equals 0000, then Month (of same) must equal 00.
4N1P	If VEHICLE CONFIGURAION does not equal 00, then MOTOR CARRIER IDENTIFICATION NUMBER must not equal 00-000000000.
4N2P	If MOTOR CARRIER IDENTIFICATION NUMBER equals 00-000000000, then VEHICLE CONFIGURATION must equal 00.
4N3P	If MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) equals 000000000, then MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) must equal 00.
4N4P	If MOTOR CARRIER IDENTIFICATION NUMBER does not equal 00-000000000, then BODY TYPE must equal 21, 28, 31, 40, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 79, 92, 93, 99, or HM2 must equal 2.
4N5P	If BODY TYPE does not equal 21, 28, 31, 40, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 92, 93, or HM2 does not equal 2, then MOTOR CARRIER IDENTIFICATION NUMBER must equal 00-000000000, 99-999999999.
4N6P	If MOTOR CARRIER IDENTIFICATION NUMBER equals 77-777777777, then BODY TYPE should equal 28, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 93, or HM1 should equal 2.
4N7P	If MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) equals 888888888 or 777777777 or 999999999, then MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) should be filled respectively as 88 or 77 or 99.
4NAP	If MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) equals 01-58, 95, 96, then MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) should not equal 888888888, 777777777, 999999997, 999999999.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
4NBP	If MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) 01-58, 95, 96, then MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) must not equal 000000000.
4NCP	If MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) is 00 or 77 or 88 or 99, then MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) must be filled respectively as 000000000 or 777777777 or 888888888 or 999999999.
4Q0F	If PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 80-83, 88, 89, then SEATING POSITION must not equal 12, 14-19, 22-50.
4Q1F	If PERSON TYPE equals 02, 03, and BODY TYPE equals 21, then SEATING POSITION must not equal 50, 52.
4R0P	If SEATING POSITION equals 54, then VEHICLE TRAILING must not equal 0.
4S0P	If BODY TYPE equals 80-82, 83, 88, 89, then EJECTION must equal 8.
4S1P	If BODY TYPE equals 80-83, 88, 89, and HM1 does not equal 1 then COMPLIANCE WITH CDL ENDORSEMENTS MUST equal 0.
4U0F	Each original submission must have at least one Person Level form with INJURY SEVERITY coded 4.
4V1F	If INJURY SEVERITY equals 4, then DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME.
4V2F	If CRASH MONTH equals 12, and DEATH MONTH equals 01, then DEATH YEAR must equal CRASH YEAR plus 1.
4V3F	If CRASH MONTH equals 12, then DEATH MONTH must equal 01, 12, 88, 99.
4V4F	If CRASH MONTH equals 02-11, and DEATH MONTH is not equal to 88 or 99, then DEATH MONTH must equal CRASH MONTH or CRASH MONTH plus 1.

**ERROR CODE    ERROR TEST**

4V5F	If CRASH MONTH equals 01, and DEATH MONTH is not equal to 88, or 99, then DEATH MONTH must equal CRASH MONTH or CRASH MONTH plus 1 or CRASH MONTH plus 2.
4V6P	If DEATH MONTH is not equal to blanks, then DEATH DAY and DEATH YEAR must not equal blanks.
4V7P	If DEATH DAY is not equal to blanks, then DEATH MONTH and DEATH YEAR must not equal blanks.
4V8P	If DEATH YEAR is not equal to blanks, then DEATH MONTH and DEATH DAY must not equal blanks.
4W0P	A RELATED FACTORS-PERSON LEVEL (MV Occupant) between 05 and 92 can be used only once per person form.
4W1P	A RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) between 08 and 91 can be used only once per person form.
4X2F	If any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 00 or 98 or 99, then only that one code and no other must be coded for this driver.
4X3F	If any CONDITION (IMPAIRMENT) AT TIME OF CRASH (NM14) equals 00 or 98 or 99, then only that one code and no other must be coded for this person.
4X4F	If any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 09, then POLICE REPORTED ALCOHOL INVOLVEMENT (P16) or POLICE REPORTED DRUG INVOLVEMENT (P19) should equal 1 for this person.
4X5F	If <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> is selected 04, then <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> attributes 05 or 06 or 16 should also be selected.
4X6F	If any CONDITION (IMPAIRMENT) AT TIME OF CRASH (NM14) equals 09, then POLICE REPORTED ALCOHOL INVOLVEMENT (NM15) or POLICE REPORTED DRUG INVOLVEMENT (NM18) should equal 1 for this person.
4X7F	If any <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> equals <b>98</b> or 99, then only that one code and no other must be coded for this person.

ERROR CODE	ERROR TEST
4X8F	If any <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> equals <b>00 or 99</b> , then only that one code and no other must be coded for this person.
4X9F	If any NON-MOTORIST SAFETY EQUIPMENT equals 1 or 8 or 9, then only that one code and no other must be coded for this person.
4Z0P	If SEQUENCE OF EVENTS equals 02, then FIRE OCCURRENCE for this vehicle must equal 1.
4Z1P	If UNIT TYPE equals 1 and FIRE OCCURRENCE equals 1, then at least one SEQUENCE OF EVENTS must equal 02.
500F	If FIRST HARMFUL EVENT equals 01-11, 14, 15-21 23-26, 30-35, 44-53, 57-59, 72, <b>73</b> , then MANNER OF COLLISION must not equal 01, 02, 06-11, 98, 99.
510F	If FIRST HARMFUL EVENT equals 12, 54, 55, then MANNER OF COLLISION must not equal 00.
520F	If FIRST HARMFUL EVENT equals 10, then TRAFFIC CONTROL DEVICE must not equal 01-04, 07-09, 20-50, 98 for the vehicle involved in the first harmful event.
530F	If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 99, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 98, 99.
531F	If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 11, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 11.
540F	If FIRST HARMFUL EVENT equals 02, then the vehicle involved in the first harmful event must have FIRE OCCURRENCE equal to 1.
550F	If FIRST HARMFUL EVENT equals 08, then at least one person must have PERSON TYPE equal 05, 10.
560F	If FIRST HARMFUL EVENT equals 09, then at least one person must have PERSON TYPE equal to 06, 07.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
570F	If FIRST HARMFUL EVENT equals 05, 06, then at least one PERSON TYPE equal to 01-03, 09 must have INJURY SEVERITY equal to 1-5, or blank.
580F	If FIRST HARMFUL EVENT equals 14, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL does not equal 32, 89 for at least one occupant in the not in-transport motor vehicle involved in the first harmful event, then RELATION TO TRAFFICWAY should not equal 01.
590F	If FIRST HARMFUL EVENT equals 15, then at least one Person Level form must have a PERSON TYPE of 08.
5A0P	If BODY TYPE equals 80, 81, 83, 88, 89, and any RELATED FACTORS - VEHICLE LEVEL does not equal 30, then ROLLOVER must equal 0.
5A1P	If BODY TYPE equals 60-79, and UNIT TYPE equals 1, then FINAL STRATUM should not equal 1, 3, 5 or 6.
5A2P	If FINAL STRATUM equals 2, then there must exist at least one vehicle where BODY TYPE equals 60-79, and UNIT TYPE equals 1.
5A3P	If FINAL STRATUM equals 1, 5 or 6, then there should exist at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2.
5A4P	If FINAL STRATUM equals 1, then there should exist: 1) at least one vehicle where BODY TYPE equals 01-49, UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 4 for at least one occupant of that vehicle; or 2) one and only one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 3 for at least one occupant of that vehicle; or 3) 2 or more vehicles where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and at least 2 vehicles where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 3 for at least one occupant of a vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
5A5P	If FINAL STRATUM equals 5, then there should exist at least one vehicle where BODY TYPE equals 01-49, and UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and INJURY SEVERITY equals 1, 2, 3 or 5 for at least one occupant of that vehicle.
5A6P	If FINAL STRATUM equals 2, then there 1) should exist at least one vehicle where UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2; or 2) INJURY SEVERITY should equal 1-5 for at least one person in the crash.
5A7P	If FINAL STRATUM equals 3, then INJURY SEVERITY must equal 2-4 for at least one person in the crash.
5A8P	If FINAL STRATUM equals 4, then INJURY SEVERITY must not equal 2-4 for any person in the crash.
5A9P	If FINAL STRATUM equals 4, and INJURY SEVERITY equals 1, then there should exist no vehicles where BODY TYPE equals 60-79, and UNIT TYPE equals 1.
5B0P	If JACKKNIFE equals 0 and BODY TYPE equals 66, then VEHICLE TRAILING must not equal 1-4.
5B0Q	If JACKKNIFE equals 0, then VEHICLE TRAILING must equal 0 or 9.
5D0P	If SPECIAL USE equals 04, then BODY TYPE must equal 01-12, 15-17, 19-22, 28-33, 39-41, 45, 48-50, 55, 58, 59, 60-64, 66, 67, 71, 72, 78, 79, 90, 99.
5F0F	If NUMBER OF OCCUPANTS equals 00-95, and BODY TYPE does not equal 50-52, 55, 58, 59, then the number of Person Level forms for that vehicle must be less than or equal to the NUMBER OF OCCUPANTS.
5I0P	If NON-CDL LICENSE STATUS equals 0, then COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3, 9.
5I1P	If NON-CDL LICENSE STATUS for this person equals 9, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS should equal 99.

**ERROR CODE    ERROR TEST**

5J0P	If the sum of all counters less than 98 is greater than fifteen, then DATE OF LAST CRASH, SUSPENSION, CONVICTION must not equal DATE OF FIRST CRASH, SUSPENSION, CONVICTION.
5K0P	The Year of DATE OF FIRST CRASH, SUSPENSION, CONVICTION must be within three years of the Year of CRASH DATE.
5L0F	If RELATED FACTORS-DRIVER LEVEL equals 20, then DRIVER PRESENCE must not equal 1, 9.
5L1F	If RELATED FACTORS-DRIVER LEVEL equals 04, 08, 12, 13, 15, 16, 19, 52, 53, 58, 59, 73, 74, 77-88, then DRIVER PRESENCE must not equal 0 or 9.
5M0F	If PERSON TYPE equals 01, then all RELATED FACTORS-PERSON LEVEL (MV Occupant) must equal 00.
5M0G	If SPECIAL USE equals 06, and PERSON TYPE equals 02 or 09, then RELATED FACTORS – PERSON (MV OCCUPANT) LEVEL should equal 86 or 92.
5N0F	If PERSON TYPE equals 02, then RELATED FACTORS-PERSON LEVEL must not equal 21, 26, 28, 29, 33, 37, 40-42, 44, 45, 47, 51-53, 57-70, 72-78, 80-83, 91.
5Q0F	If PERSON TYPE equals 02, and BODY TYPE equals 50-52, 55, 58, 59, then SEATING POSITION must not equal 11, 21-50, <b>98</b> , 99.
5S0P	If BODY TYPE equals 80-83, 88, 89 or 90, then EXTRICATION must equal 0.
5T7P	If ALCOHOL TEST STATUS equals 0, 1, then ALCOHOL TEST TYPE must equal 00, and ALCOHOL TEST RESULT must equal 96.
5T8P	If ALCOHOL TEST STATUS equals 9, then ALCOHOL TEST TYPE and ALCOHOL TEST RESULT must equal 99.
5T9P	If ALCOHOL TEST STATUS equals 2, then ALCOHOL TEST TYPE must equal 01-10, <b>95</b> , 98, and ALCOHOL TEST RESULT must equal 00-94, 97, 98.

ERROR CODE	ERROR TEST
5TCP	If ALCOHOL TEST STATUS equals 8, then ALCOHOL TEST TYPE must equal 95 and ALCOHOL TEST RESULT must equal 95.
5W0P	If RELATED FACTORS-PERSON LEVEL equals 18, then SEX must equal 2, and AGE must be greater than 012.
5Y0F	If FIRST HARMFUL EVENT equals 08, 09, 15, then NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES must not equal 00.
5Z0F	If SEQUENCE OF EVENTS equals 08, then at least one person must have PERSON TYPE equal to 05, 10.
610P	If TRAFFIC CONTROL DEVICE equals 00, then DEVICE FUNCTIONING must equal 0.
640F	If TRAFFIC CONTROL DEVICE equals 23 for any vehicle, then RELATED FACTORS-CRASH LEVEL should equal 21.
641F	If RELATED FACTORS-CRASH LEVEL equals 21, then TRAFFIC CONTROL DEVICE should not equal 00 for every vehicle.
642F	If TRAFFIC CONTROL DEVICE equals 00 for every vehicle, then RELATED FACTORS-CRASH LEVEL should not equal 21.
650P	If TRAFFIC CONTROL DEVICE equals 65 for any vehicle, then RAIL GRADE CROSSING IDENTIFIER must not equal 0000000.
660P	If TRAFFIC CONTROL DEVICE is not equal to 00, then DEVICE FUNCTIONING must not equal 0.
<b>660Q</b>	<b><i>If TRAFFIC CONTROL DEVICE does not equal 97, then it is unlikely that DEVICE FUNCTIONING equals 8.</i></b>
661P	If TRAFFIC CONTROL DEVICE equals 97, the DEVICE FUNCTIONING must equal 8.
670F	If FIRST HARMFUL EVENT equals 12, 14, 45, 54, 55, then NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.

**ERROR CODE    ERROR TEST**

671F	If the only harmful event in SEQUENCE OF EVENTS for this vehicle equals 02 or 04, then CRITICAL EVENT – PRECRASH (EVENT) must equal 98.
6A1P	If UNDERRIDE/OVERRIDE equals 1-8, then BODY TYPE must not equal 80-83, 88-91.
6D0P	If SPECIAL USE equals 05, then BODY TYPE must equal 01-12, 14-17, 19-22, 28-33, 39-41, 45, 48, 49, 55, 58-64, 66, 67, 71, 72, 78-82, 88-91, 94, 95, 97-99.
6G0P	If RELATED FACTORS-VEHICLE LEVEL equals 32, then REGISTRATION STATE must not equal 00, 92.
6G0Q	If any RELATED FACTORS - VEHICLE LEVEL equals 30, then BODY TYPE must equal 80 for this vehicle.
6H0P	If DRIVER PRESENCE equals 0, 9, then DRIVER'S ZIP CODE must be blank.
6H1P	If DRIVER PRESENCE equals 0, 9, then CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) must be blank.
6I0P	If NON-CDL LICENSE STATUS equals 9, and COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00, then COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3.
6K0P	If VIOLATION CHARGED equals 71, then RELATED FACTORS-DRIVER LEVEL must not equal 19.
6L0P	If COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 19, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE must equal 3.
6Q0F	If PERSON TYPE equals 02, 03, 09, and BODY TYPE equals 60-67, 71, 72, 78, 79, then SEATING POSITION must not equal 31-49.
6S0P	If EJECTION equals 1, then EXTRICATION must not equal 1, 9.
6V0P	DEATH DATE must not be less than CRASH DATE.
6Z0F	If SEQUENCE OF EVENTS equals 09, then at least one person must have PERSON TYPE equal to 06, 07.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
730P	If RELATION TO JUNCTION (b) equals 07, then RELATION TO TRAFFICWAY must not equal 04-07, 10, 11, 99.
740P	If RELATION TO JUNCTION (b) equals 07, then TRAFFICWAY DESCRIPTION must equal 2, 3 for at least one vehicle.
750P	If RELATION TO JUNCTION (b) equals 07, then RAIL GRADE CROSSING IDENTIFIER must equal 0000000.
770P	If RELATION TO TRAFFICWAY equals 07, then RELATION TO JUNCTION must equal 01, 03, 08, 19, 98, 99.
772P	If RELATION TO TRAFFICWAY equals 07, then RELATION TO JUNCTION (a) must not equal 1.
773P	If RELATION TO JUNCTION (b) equals 01, then RELATION TO JUNCTION (a) must equal 0.
773Q	If RELATION TO JUNCTION(b) equals 04, 06, 07, or 16, then RELATION TO JUNCTION (a) should not equal 1.
775P	If RELATION TO JUNCTION (b) equals 17 or 18 or 19, then RELATION TO JUNCTION (a) must equal 1.
776P	If RELATION TO JUNCTION (b) equals 01, 04-08, 16-19, then TYPE OF INTERSECTION must equal 1.
778P	If RELATION TO JUNCTION (b) equals 01, 04-08, 16-20, then TYPE OF INTERSECTION must equal 01.
77AP	If CRASH TYPE equals 14, then RELATION TO JUNCTION (b) must not equal 02.
77BP	If CRASH TYPE equals 68-91, then RELATION TO JUNCTION (b) should not equal 01.
77CP	If CRASH TYPE equals 14, then RELATION TO JUNCTION (b) should equal 01, 03, 19.
77DP	If RELATION TO TRAFFICWAY equals 07, and RELATION TO JUNCTION (a) equals 1, then RELATION TO JUNCTION (b) should not equal 03, 08.
780P	If RELATION TO TRAFFICWAY equals 10, then RELATION TO JUNCTION (b) must not equal 02, 04, 08.

ERROR CODE	ERROR TEST
781P	If TYPE OF INTERSECTION equals 02-07, 10, then TRAFFICWAY IDENTIFIER (b) should not be blank.
782P	If TYPE OF INTERSECTION equals 02-07, 10, then RELATION TO JUNCTION (b) must equal 02, 03.
783P	If RELATION TO JUNCTION (b) equals 98, 99, then TYPE OF INTERSECTION should equal 01, 98, 99.
784P	If TYPE OF INTERSECTION equals 01, then RELATION TO JUNCTION (b) must not equal 02, 03.
7B0F	If JACKKNIFE equals 2, 3, then DRIVER PRESENCE must equal 1.
7D0P	If SPECIAL USE equals 06, then BODY TYPE must equal 11, 14-17, 19, 21, 22, 28, 29, 40, 41, 45, 48, 49, 61, 62, 64, 79, 97, 99.
7E0P	If INJURY SEVERITY equals 4, then DEATH CERTIFICATE NUMBER must NOT equal 0000-00-000000.
7E1P	If INJURY SEVERITY equals 4, then RACE must not equal 00.
7E2P	If INJURY SEVERITY equals 4, then HISPANIC ORIGIN must not equal 00.
7E3P	If INJURY SEVERITY does not equal 4, then RACE AND HISPANIC ORIGIN must equal 00.
7F0P	If DEATH CERTIFICATE NUMBER is not blank or 0000-00-000000, then INJURY SEVERITY must equal 4.
7F1P	If RACE equals 00, then INJURY SEVERITY must not equal 4.
7F2P	If HISPANIC ORIGIN equals 00, then INJURY SEVERITY must not equal 4.
7F3P	If RACE is not equal to 00, and HISPANIC ORIGIN is not equal to 00, then INJURY SEVERITY must equal 4.
7I0P	If COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 19, then NON-CDL LICENSE STATUS must equal 6.

- 781P If TYPE OF INTERSECTION equals 02-07, 10, then TRAFFICWAY IDENTIFIER (b) should not be blank.
- 782P If TYPE OF INTERSECTION equals 02-07, 10, then RELATION TO JUNCTION (b) must equal 02, 03.
- 783P If RELATION TO JUNCTION (b) equals 98, 99, then TYPE OF INTERSECTION should equal 01, 98, 99.
- 784P If TYPE OF INTERSECTION equals 01, then RELATION TO JUNCTION (b) must not equal 02, 03.
- 7B0F If JACKKNIFE equals 2, 3, then DRIVER PRESENCE must equal 1.
- 7D0P If SPECIAL USE equals 06, then BODY TYPE must equal 11, 14-17, 19, 21, 22, 28, 29, 40, 41, 45, 48, 49, 61, 62, 64, 79, 97, 99.
- 7E0P If INJURY SEVERITY equals 4, then DEATH CERTIFICATE NUMBER must NOT equal 0000-00-000000.
- 7E1P If INJURY SEVERITY equals 4, then RACE must not equal 00.
- 7E2P If INJURY SEVERITY equals 4, then HISPANIC ORIGIN must not equal 00.
- 7E3P If INJURY SEVERITY does not equal 4, then RACE AND HISPANIC ORIGIN must equal 00.
- 7F0P If DEATH CERTIFICATE NUMBER is not blank or 0000-00-000000, then INJURY SEVERITY must equal 4.
- 7F1P If RACE equals 00, then INJURY SEVERITY must not equal 4.
- 7F2P If HISPANIC ORIGIN equals 00, then INJURY SEVERITY must not equal 4.
- 7F3P If RACE is not equal to 00, and HISPANIC ORIGIN is not equal to 00, then INJURY SEVERITY must equal 4.
- 7I0P If COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 19, then NON-CDL LICENSE STATUS must equal 6.

ERROR CODE	ERROR TEST
7K0P	If any VIOLATIONS CHARGED equals 71, then NON-CDL LICENSE STATUS must equal 0, 1, 2, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS must equal 01, 02, 05.
7K1P	VIOLATIONS CHARGED code 99 must not be used more than once per driver.
7L0P	Any RELATED FACTORS-DRIVER LEVEL can be used only once per driver form.
7M0F	If PERSON TYPE equals 03, then RELATED FACTORS-PERSON LEVEL (MV Occupant) must not equal 21, 26, 28, 29, 33, 37, 40-42, 44, 45, 47, 51-53, 57-70, 72-78, 80-83, 91.
<b>7M1F</b>	<b><i>If PERSON TYPE equals 03, and SEATING POSITION is not equal to 11 or 13, and INJURY SEVERITY does not equal 4, then DRUG TEST STATUS must not equal 8.</i></b>
7P0F	If PERSON TYPE equals 01, then AGE must not be less than 002.
7Q0F	If PERSON TYPE equals 09, and BODY TYPE equals 50-52, 55, 58, 59, then SEATING POSITION must not equal 12-50, 52-54.
7R0P	If FATAL INJURY AT WORK equals 0, 1, 9, then INJURY SEVERITY must equal 4.
7V0F	If DEATH YEAR equals 9999, then CRASH MONTH must not be 01-11.
7W0P	If FATAL INJURY AT WORK equals 8, then INJURY SEVERITY must not equal 4.
7Z0F	If any SEQUENCE OF EVENTS equals 05, 06, then at least one occupant of this vehicle (PERSON TYPES 01, 02, 09) must have INJURY SEVERITY equal to 1-5, or blank.
840P	If any RELATED FACTORS-CRASH LEVEL equals 99, then all RELATED FACTORS-CRASH LEVEL must equal 99.
850P	If the first RELATED FACTORS-CRASH LEVEL equals 00, then all RELATED FACTORS-CRASH LEVEL must be 00. If the second equals 00, then the third must also.

**ERROR CODE    ERROR TEST**

860P	If any RELATED FACTORS-CRASH LEVEL is blank, then all RELATED FACTORS-CRASH LEVEL must be blanks.
870P	A RELATED FACTORS-CRASH LEVEL 01-07, 13-28 can be used only once per crash.
880F	If RELATED FACTORS-CRASH LEVEL equals 16, then there must be a Person Level (Not a MV Occupant) form with PERSON TYPE equal to 04-08, 19.
890F	If RELATED FACTORS-CRASH LEVEL equals 15, then there must be a Person Level (Not a MV Occupant) form with PERSON TYPE equal to 04-08, 10, 19.
8D0P	If SPECIAL USE equals 08, then BODY TYPE must not equal 60-64, 66, 67, 71, 72, 78, 79, 99.
8I0P	If NON-CDL LICENSE STATUS equals 0-4, 9, then RELATED FACTORS-DRIVER LEVEL must not equal 19.
8J0P	If NON-CDL LICENSE TYPE equals 0, then NON-CDL LICENSE STATUS must equal 0.
8J1P	If NON-CDL LICENSE STATUS equals 0, then NON-CDL LICENSE TYPE must equal 0.
8J2P	If RELATED FACTORS-DRIVER LEVEL equals 73, 74, then COMPLIANCE WITH LICENSE RESTRICTIONS must equal 2.
8K0P	If VIOLATIONS CHARGED equals 07, 08, then HIT-AND-RUN must not equal 0.
8L0P	If LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0-2, 9, then RELATED FACTORS-DRIVER LEVEL must not equal 19.
8L8Q	If AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19 in the CRASH EVENTS, then the corresponding event in that row must not equal 12 or 55.
8L8R	If the CRASH EVENTS event equals 54, then AREAS OF IMPACT (THIS VEHICLE) must equal 18 or 19 in that row.

ERROR CODE	ERROR TEST
8L8S	If AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19 in the CRASH EVENTS and the corresponding event in that row equals 14, 45 or 54, then RELATED FACTORS-CRASH LEVEL must equal 14.
8L8T	If RELATED FACTORS-CRASH LEVEL equals 14, then there must exist at least one event in the CRASH EVENTS where AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19 and the corresponding event in that row equals 14, 45 or 54.
8L8U	If AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19 in the CRASH EVENTS and the corresponding event in that row equals 08, 09, 15, 49, then RELATED FACTORS-CRASH LEVEL must equal 15.
8L8V	If RELATED FACTORS-CRASH LEVEL equals 15, then there must exist at least one event in the CRASH EVENTS where AREAS OF IMPACT (THIS VEHICLE) equals 18 or 19, and the corresponding event in that row equals 08-10, 15, 18 or 49.
8L8X	If AREAS OF IMPACT (THIS VEHICLE) equals 18, then there should be a previous event involving that vehicle where the CRASH EVENTS event equals 60.
8L9P	If <b>BODY TYPE does not equal 80-83, 88-91, and</b> the CRASH EVENTS event equals 54, and the corresponding AREAS OF IMPACT (THIS VEHICLE) equals 19 in that row, then there should be a previous event with CRASH EVENTS event equal to 18 or 73 involving that vehicle.
8M0F	If PERSON TYPE equals 04, then RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 13, 86, 90.
8P0P	If PERSON TYPE equals 01, and AGE is less than 008, then BODY TYPE must not equal 01-12, 14-17, 19-22, 28-33, 39-42, 45, 48-52, 55, 58-67, 71, 72, 78-83, 89, 92, 93.
8P1P	If PERSON TYPE equals 01, and AGE is less than 008, then BODY TYPE should equal 88, 91.
8Q0F	If PERSON TYPE equals 08, then RELATED FACTORS-PERSON LEVEL must not equal 09, 86, 90.
8T0F	If any NON-MOTORIST SAFETY EQUIPMENT equals 2, then PERSON TYPE should equal 06-08.

**ERROR CODE    ERROR TEST**

8V0P	If DEATH YEAR equals 9999, then DEATH MONTH and DEATH DAY must equal 99.
8Z0F	If any SEQUENCE OF EVENTS equals 15, then at least one Person Level (Not a MV Occupant) form must have a PERSON TYPE code of 08.
900P	If VEHICLE IDENTIFICATION NUMBER (VIN) does not equal 0's, 8's or 9's, and VEHICLE MODEL YEAR is a valid year and greater than or equal to 1980 and VEHICLE MODEL YEAR equals _____, then the 10th digit of the valid VEHICLE IDENTIFICATION NUMBER (VIN) should equal _____ (contact Headquarters for VIN Assistance).
920P	If any one of the fields MAKE, MODEL, BODY TYPE, and MODEL YEAR, equals Not Reported [MAKE (97), MODEL (997), BODY TYPE (98), and MODEL YEAR (9998)], then the other three must also equal Not Reported.
921P	If MAKE is not 97, 98, 99, and equals_____, and MODEL equals_____, then MODEL YEAR must equal_____, or CRASH YEAR plus 1.
930P	If any one of the fields MAKE, MODEL, BODY TYPE, and MODEL YEAR, does not equal Not Reported [MAKE (97), MODEL (997), BODY TYPE (98), and MODEL YEAR (9998)], THEN the other three must also not be coded as Not Reported.
960P	If MAKE is not 98, 99, and equals___, and MODEL equals_____, then BODY TYPE must equal_____.
981P	If BODY TYPE equals 80-83, 88, 89, 90, 91, then RESTRAINT SYSTEM/HELMET USE must equal 05, 16, 17, 19, 29, 97, 98.
982P	If BODY TYPE does not equal 80-83, 88, 89, 90, 91, then RESTRAINT SYSTEM/HELMET USE must not equal 05, 16, 17, 19, 29.
990P	If any counter equals 99, then all counters and DATE OF LAST CRASH, SUSPENSION, CONVICTION and DATE OF FIRST CRASH, SUSPENSION, CONVICTION must equal 9999.
9A2P	If UNIT TYPE equals 2, 3, then REGISTERED VEHICLE OWNER must equal 6.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
9A3P	If UNIT TYPE equals 2-4, then DRIVER PRESENCE must equal 0.
9A5P	If PERSON TYPE equals 03, then UNIT TYPE must equal 2-4.
9B3P	If UNDERRIDE/OVERRIDE equals 7, then there must be at least one vehicle with UNIT TYPE equal to 1.
9B4P	If UNDERRIDE/OVVERIDE equals 8, then there must at least one vehicle with UNIT TYPE equal 2-4.
9B5P	If UNIT TYPE equals 2, 3, then UNDERRIDE/OVERRIDE must equal 0.
9B7P	If UNIT TYPE equals 2-4, then PERSON TYPE of all occupants of this vehicle must equal 03.
9B9P	If any SEQUENCE OF EVENTS equals 55, then there must be at least one other vehicle with UNIT TYPE equal to 1.
9BAP	If MANNER OF COLLISION equals 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the first harmful event, then CRASH TYPE should equal 44-49, 98, 99 for the vehicles involved in the first harmful event.
9BCP	If MANNER OF COLLISION equals 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the first harmful event, then CRASH TYPE should equal 64-67, 98, 99 for the vehicles involved in the first harmful event.
9BDP	If MANNER OF COLLISION equals 01, then CRASH TYPE should not equal 44-49 for the vehicles involved in the first harmful event.
9C0P	If FIRST HARMFUL EVENT equals 55, then there must be at least one vehicle with UNIT TYPE equal to 1.
9C1P	If UNIT TYPE equals 4, then RELATED FACTORS-VEHICLE LEVEL must not equal 39.
9C4P	If UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9, then DRIVER MANEUVERED TO AVOID must only equal 95.

ERROR CODE	ERROR TEST
9C5P	If DRIVER MANEUVERED TO AVOID equals 95, then DRIVER PRESENCE must equal 0 or 9.
9J0P	If LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0-1, then COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3, 9.
9K0P	If HM2 equals 2, then REGISTRATION STATE must not equal 00.
9M0F	If PERSON TYPE equals 05, then RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 13, 21, 26, 40, 42, 51, 52, 57, 68-70, 73-83, 88.
9P0F	If PERSON TYPE equals 04-08, 10, 19, then EXTRICATION must not equal 1, 9.
9V0P	If DEATH MONTH equals 99, then DEATH DAY must equal 99.
A010	If STATE equals 02, and LIGHT CONDITION equals 4, then CRASH TIME should equal 0300-1000, 9999.
A020	If STATE equals 02, and LIGHT CONDITION equals 5, then CRASH TIME should equal 1500-2359, 9999.
A030	If CRASH MONTH equals 05-09, then ATMOSPHERIC CONDITIONS should not equal 03, 04, 11, 12.
A040	If CRASH MONTH equals 05-09, then ROADWAY SURFACE CONDITIONS should not equal 03, 04, 10.
<b>A041</b>	<b><i>If CRASH MONTH equals 05-09, then SEQUENCE OF EVENTS, FIRST HARMFUL EVENT, MOST HARMFUL EVENT should not equal 48.</i></b>
<b>A042</b>	<b><i>If CRASH EVENTS-SEQUENCE OF EVENTS equals 17, 19-21, 23-26, 30-35, 38-43, 52, 53, 57 for a vehicle, then at least one previous CRASH EVENTS-SEQUENCE OF EVENTS should equal 63, 64, 71 or 79 for that vehicle.</i></b>
A050	If CRASH TIME equals 0900-1600, then LIGHT CONDITION should not equal 2-6.
A060	If CRASH TIME equals 2300-0400, then LIGHT CONDITION should not equal 1, 4, 5, 9.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
A070	If NOTIFICATION TIME EMS is not 8888, 9998 or 9999, then NOTIFICATION TIME EMS should not be more than 120 minutes later than CRASH TIME.
A080	If DRIVER PRESENCE equals 0, and FIRST HARMFUL EVENT equals 12, and NUMBER OF VEHICLE FORMS SUBMITTED equals 002, then one RELATED FACTORS-DRIVER LEVEL should equal 20.
A090	If NUMBER OF VEHICLE FORMS SUBMITTED is greater than 001, then there should be at least one vehicle with TRAVEL SPEED of 001-151, 997-999, or blanks.
A100	If FIRST HARMFUL EVENT is not equal to 02, 04, 05, 10, 16, 18, then there should be one vehicle with TRAVEL SPEED of 001-151, 997-999, or blanks.
A110	If FIRST HARMFUL EVENT equals 10, then ROADWAY FUNCTION CLASS should not equal 01, 11, 12.
<b>A131</b>	<b><i>If RELATION TO JUNCTION (b) equals 02, 04, 06, 16, 17, or 20, then RELATION TO TRAFFICWAY must equal 01.</i></b>
<b>A141</b>	<b><i>If RELATION TO JUNCTION (b) equals 18, then RELATION TO TRAFFICWAY must equal 01 or 11.</i></b>
A150	If ROADWAY FUNCTION CLASS equals 01, 11, 12, and RELATION TO JUNCTION (a) equals 0, then RELATION TO JUNCTION should not equal 02-04, 06, 08.
A160	If ROADWAY FUNCTION CLASS equals 01, 02, 04, 11, 12, 13, 15, then ROADWAY SURFACE TYPE should equal 1, 2, 8 or 9 for at least one vehicle.
A170	If ROADWAY SURFACE TYPE equals 3-5 for every vehicle, then ROADWAY FUNCTION CLASS should not equal 01-03, 11-15.
A180	If ROADWAY FUNCTION CLASS equals 01, 11, then SPECIAL JURISDICTION should not equal 1-5, 8, 9.
A190	If ROADWAY FUNCTION CLASS equals 12, then SPECIAL JURISDICTION should not equal 4.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
A1A0	If ROADWAY SURFACE CONDITIONS equals 01 for a vehicle involved in the first harmful event, then ATMOSPHERIC CONDITIONS should not equal 02-04, 11, 12.
A1B0	If TRAFFIC CONTROL DEVICE equals 20, 21 for a vehicle involved in the first harmful event, then RELATION TO JUNCTION (b) should not equal 01, 18.
A1C0	If ROADWAY SURFACE CONDITIONS equals 01, then DRIVER'S VISION OBSCURED BY should not equal 08.
A1E0	If RELATION TO JUNCTION (b) equals 19, then RELATION TO TRAFFICWAY must not equal 01, 05, 11, 98, 99.
A1E1	If RELATION TO JUNCTION (b) equals 20, then RELATION TO TRAFFICWAY must equal 01.
A200	If RELATION TO JUNCTION (b) equals 07, then ROADWAY FUNCTION CLASS should not equal 04-06, 16.
A210	If ROADWAY FUNCTION CLASS equals 01, 11, 12, and RELATION TO JUNCTION (a) equals 0, then TRAFFIC CONTROL DEVICE should not equal 01-04, 07, 20, 23, 40, 50, 65.
A220	If ROADWAY FUNCTION CLASS equals 01, 11, and RELATION TO JUNCTION (a) equals 0, then SPEED LIMIT should not equal 05-40 for any vehicle.
A230	If SEQUENCE OF EVENTS equals 10, then ROADWAY FUNCTION CLASS should not equal 01, 11.
A240	If ROADWAY FUNCTION CLASS equals 01, 11, and RELATION TO JUNCTION (a) equals 0, then TRAVEL SPEED should not equal 005-040 for any vehicle.
A250	If ROADWAY FUNCTION CLASS equals 01, 02, 11-13, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 03, 05, 20, then TOTAL LANES IN ROADWAY should not equal 1 for the vehicles involved in the first harmful event.
A270	If any VIOLATIONS CHARGED equals 31-35, 37, then TRAFFIC CONTROL DEVICE should equal 01-20, 98.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
A280	If ROUTE SIGNING equals 1, then SPECIAL JURISDICTION should not equal 1-5, 8, 9.
A290	If ROUTE SIGNING equals 1 and RELATION TO JUNCTION (a) equals 0, then RELATION TO JUNCTION (b) should not equal 02-04, 06, 08, 16.
A291	If RELATION TO JUNCTION (b) equals 07, then ROUTE SIGNING should not equal 5, 6.
A292	If <u>any</u> TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00, then <u>all</u> must equal 0, 00, <u>and</u> SPEED LIMIT must equal 00 for this vehicle.
A293	If WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 02, 03, then TRAFFIC CONTROL DEVICE should equal 01-03, 20, 40, 97 or 98 for the vehicle(s) involved in the first harmful event.
A294	If WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 01, 04, 05, 08, 17-19, then TRAFFIC CONTROL DEVICE should equal 00, 21, 28, 40, 50, 97 or 98 for the vehicle(s) involved in the first harmful event.
A300	If ROUTE SIGNING equals 1, then TRAFFICWAY DESCRIPTION should equal 2, 3, 6 for at least one vehicle.
A310	If ROUTE SIGNING equals 1 and RELATION TO JUNCTION (a) equals 0, then TOTAL LANES IN ROADWAY should not equal 1 for any vehicle.
A320	If ROUTE SIGNING equals 1 and RELATION TO JUNCTION (a) equals 0, then SPEED LIMIT should not equal 05-40 for any vehicle.
A330	If ROUTE SIGNING equals 1, 2, then ROADWAY SURFACE TYPE should equal 1, 2, 8 for at least one vehicle.
A350	If ROUTE SIGNING equals 1, then FIRST HARMFUL EVENT should not equal 10.
A360	If RELATION TO JUNCTION (b) equals 07, then ROUTE SIGNING should not equal 4.

**ERROR CODE    ERROR TEST**

A370	If FIRST HARMFUL EVENT equals 99, then MANNER OF COLLISION should not equal 00, 01-11.
A380	If FIRST HARMFUL EVENT equals 01 and this vehicle is involved in the first harmful event and BODY TYPE does not equal 80-89 for this vehicle, and RELATION TO TRAFFICWAY equals _____, then LOCATION OF ROLLOVER should equal _____ respectively.
A390	If FIRST HARMFUL EVENT equals 17, 19-21, 23-26, 30-35, 38-43, 52, 53, 57, then RELATION TO TRAFFICWAY should not equal 01, 02, 07, 11.
A3C0	If FIRST HARMFUL EVENT equals 02-07, 16, 44, 51, 72, then CRASH TYPE must equal 00 for the vehicle involved in the first harmful event.
A3D0	If FIRST HARMFUL EVENT equals 01-07, 16, 44, 51, 72, then CRASH TYPE must not equal 20-91.
A3E0	If CRASH TYPE equals 13, then FIRST HARMFUL EVENT must equal 08, 09, 11, 15 or 49.
A3G0	If INTERSTATE HIGHWAY equals 1, RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, then TOTAL LANES IN ROADWAY should not equal 1 for at least one vehicle involved in the first harmful event.
A3H0	If INTERSTATE HIGHWAY equals 1, RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, then TRAFFICWAY DESCRIPTION should not equal 4 for at least one vehicle involved in the first harmful event.
A3I0	If INTERSTATE HIGHWAY equals 1, then RELATION TO JUNCTION (b) should not equal 02, 04, 06, 08 or 16.
A3J0	If INTERSTATE HIGHWAY equals 1, RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, then SPEED LIMIT should not equal 01-40 for at least one vehicle involved in the first harmful event.
A3K0	If FIRST HARMFUL EVENT equals 10, then INTERSTATE HIGHWAY should not equal 1.

ERROR CODE	ERROR TEST
A420	If FIRST HARMFUL EVENT equals 10, then RELATION TO JUNCTION (b) should equal 06.
A421	<i>If FIRST HARMFUL EVENT equals 24, 25, 30, 33, 34, 35, 40, 46, 52, 57, 59, then RELATION TO TRAFFICWAY should equal 03, 04, 08 or 10.</i>
A430	If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10-11 for a vehicle involved in the first harmful event, then RELATION TO JUNCTION (b) should not equal 01, 18.
A440	If RELATION TO JUNCTION (b) equals 06, then TRAFFIC CONTROL DEVICE should equal 65 for any vehicle involved in the first harmful event.
A470	If WORK ZONE equals 0, and TRAFFICWAY DESCRIPTION equals 1-3, 5, then TOTAL LANES IN ROADWAY should not equal 1.
A480	If CRASH TYPE equals 00, then FIRST HARMFUL EVENT must equal 02-07, 16, 44, 51, 72.
A481	If TRAFFICWAY DESCRIPTION equals 6, and <b>RELATION TO JUNCTION (b) does not equal 02, 03</b> , then TOTAL LANES IN ROADWAY should equal 1, 2, 8, 9.
A482	If TRAFFICWAY DESCRIPTION equals 4 or 6, then TOTAL LANES IN ROADWAY should not equal 5-7.
A490	If TRAFFICWAY DESCRIPTION equals 2, 3, 5, then ROADWAY SURFACE TYPE should not equal 4, 5, 7.
A491	If TRAFFICWAY DESCRIPTION equals <b>2 or 3</b> , then TOTAL LANES IN ROADWAY should not equal 7.
A492	If TRAFFICWAY DESCRIPTION equals 2, 3, 5, 6, then SPEED LIMIT must not equal 00.
A493	If TRAFFICWAY DESCRIPTION equals 2, 3, 5, then SPEED LIMIT should be greater than 15.
A494	If TRAFFICWAY DESCRIPTION equals 6, then ROADWAY GRADE should not equal 3, 4.

ERROR CODE	ERROR TEST
A495	If TRAFFICWAY DESCRIPTION equals 0, then the <u>first event</u> in SEQUENCE OF EVENTS for this vehicle should not equal 63, 64, 69 or 71.
A4A0	If CRASH TYPE equals 01-16, then FIRST HARMFUL EVENT must not equal 12.
<b>A4B0</b>	<b><i>If CRASH TYPE equals 01-10 or 14, then RELATION TO TRAFFICWAY must not equal 01, 02, 07 or 11. If the FHE occurs on a different road than the road it departed, see 98 (Other Crash Type).</i></b>
<b>A4B2</b>	<b><i>If CRASH TYPE equals 11, then RELATION TO TRAFFICWAY must not equal 01, 03, 04, 05, 08, 10 or 11.</i></b>
<b>A4B3</b>	<b><i>If CRASH TYPE equals 12 or 13, then RELATION TO TRAFFICWAY must not equal 03, 05, 08 or 10.</i></b>
<b>A4B4</b>	<b><i>If CRASH TYPE equals 12 or 13, then RELATION TO TRAFFICWAY should not equal 04 unless the First Harmful Event occurs in a bicycle lane.</i></b>
A4BP	If FIRST HARMFUL EVENT equals 54 or <b>55</b> , then CRASH TYPE must equal 98 for the vehicles involved in the first harmful event.
A4C0	If RELATION TO JUNCTION (b) equals 04, then at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) for the vehicles involved in the first harmful event should equal 10, 11, 13 or 98.
A4D0	If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 14, then ROADWAY ALIGNMENT must equal 2-4.
A4D1	If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 01, then ROADWAY ALIGNMENT should not equal 2-4.
A4DP	If CRASH TYPE equals 20-91, then FIRST HARMFUL EVENT must equal 12.
<b>A4EP</b>	<b><i>If CRASH TYPE equals 11, then FIRST HARMFUL EVENT must equal 14.</i></b>

ERROR CODE	ERROR TEST
A500	If TOTAL LANES IN ROADWAY equals 3-7, then ROADWAY SURFACE TYPE should not equal 4, 5, 7.
A510	If any AMOSPHERIC CONDITIONS equals 02-04, 11, 12, then ROADWAY SURFACE CONDITIONS should not equal 01, 07, 08, 99 for any vehicle.
A520	If SEQUENCE OF EVENTS equals 10, then TRAFFIC CONTROL DEVICE should not equal 01-09, 20-29, 40-50, 98.
A521	If any SEQUENCE OF EVENTS equals 46, then SPEED LIMIT should equal 05-55, 98 or 99 for this vehicle.
A540	If NOTIFICATION TIME EMS is not 8888, 9998, or 9999, and ARRIVAL TIME EMS is not 8888, 9997, 9998, 9999, then ARRIVAL TIME EMS should not be more than 120 minutes later than NOTIFICATION TIME EMS.
A550	If ARRIVAL TIME EMS is not 8888, 9997, 9998, or 9999, and EMS TIME AT HOSPITAL is not 8888, 9997, 9998, 9999, then EMS TIME AT HOSPITAL should not be more than 60 minutes later than ARRIVAL TIME EMS.
A551	If EMS TIME AT HOSPITAL equals 8888, 9997, 9998, then TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 1, 3, 5 for any PERSON.
A560	If NOTIFICATION TIME EMS is not 8888, 9998, or 9999, and EMS TIME AT HOSPITAL is not 8888, 9997, 9998, 9999, then EMS TIME AT HOSPITAL should not be more than 180 minutes later than NOTIFICATION TIME EMS.
A60F	If FIRST HARMFUL EVENT equals 14, then CRASH TYPE <b>must</b> equal 01-11, <b>14, 15</b> , 92, 98, 99 for the in-transport vehicle involved in the first harmful event.
A610	If RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 05, then TRAFFICWAY DESCRIPTION should equal 6 for at least one vehicle involved in the first harmful event.
A611	If TRAFFICWAY DESCRIPTION equals 6 for at least one vehicle involved in the first harmful event, then RELATION TO JUNCTION (b) should equal 02, 03, 05, 17-20.

ERROR CODE	ERROR TEST
A61F	If FIRST HARMFUL EVENT equals 08, 09, 11, 15, 49, and RELATION TO TRAFFICWAY equals 01, 02, 07, 11, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) is not equal to 00, 13 for the vehicle involved in the first harmful event, then CRASH TYPE should equal 13 for the vehicle involved in the first harmful event.
A61G	If the FIRST HARMFUL EVENT equals 08, and PERSON TYPE equals 05, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event, then CRASH TYPE should not equal 13 for this vehicle.
A61H	If the FIRST HARMFUL EVENT equals 09, and PERSON TYPE equals 06, 07, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event, then CRASH TYPE should not equal 13 for this vehicle.
A61J	If the FIRST HARMFUL EVENT equals 15, and PERSON TYPE equals 08, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event, then CRASH TYPE should not equal 13 for this vehicle.
A61K	If the FIRST HARMFUL EVENT equals 49, and PERSON TYPE equals 04, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the first harmful event, then CRASH TYPE should not equal 13 for this vehicle.
A620	If CRASH TYPE equals 06-10, and TRAFFICWAY DESCRIPTION equals 3, then RELATION TO TRAFFICWAY should equal 03.
A62F	If FIRST HARMFUL EVENT equals 18, 43, <b>or 73</b> , and RELATION TO TRAFFICWAY equals 01 or 11, then CRASH TYPE should equal 12 or 15 for the vehicle involved in the first harmful event.

ERROR CODE	ERROR TEST
A63F	If FIRST HARMFUL EVENT equals 01, then CRASH TYPE should equal 01-10, 98, 99 for the vehicle involved in the first harmful event.
<b>A65F</b>	<b><i>If FIRST HARMFUL EVENT equals 14, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL equals 32 or 89 for an occupant of the parked vehicle involved in the FIRST HARMFUL EVENT, then CRASH TYPE should equal 15, 92 or 98 for the in-transport vehicle involved in the First Harmful Event.</i></b>
<b>A66F</b>	<b><i>If FIRST HARMFUL EVENT equals 14, and CRASH TYPE equals 01-10 or 14, then RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL must not equal 32 or 89 for any occupant of the parked vehicle involved in the FIRST HARMFUL EVENT.</i></b>
<b>A67F</b>	<b><i>If FIRST HARMFUL EVENT equals 14, and CRASH TYPE equals 15, then RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL should (could) equal 32 or 89 for an occupant of the parked vehicle.</i></b>
A700	If SPEED LIMIT is greater than 65 for every vehicle, then ROUTE SIGNING should equal 1-4.
A720	If ROADWAY FUNCTION CLASS equals 01, 11, 12, then TRAFFICWAY DESCRIPTION should equal 2, 3, 6 for at least one vehicle.
A770	If FIRST HARMFUL EVENT equals 46, then TRAFFIC CONTROL DEVICE should equal 01-04 for the vehicle involved in the first harmful event.
A780	If FIRST HARMFUL EVENT equals 46, then TRAFFIC CONTROL DEVICE should not equal 00 for the vehicle involved in the first harmful event.
A790	If FIRST HARMFUL EVENT equals 46, then RELATION TO JUNCTION (b) should not equal 01, 07.
A800	If FIRST HARMFUL EVENT equals 46, then RELATION TO TRAFFICWAY should not equal 01, 02, 05, 07, 11.
A810	If FIRST HARMFUL EVENT equals 46, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 02, 03, 05, then ROADWAY FUNCTION CLASS should not equal 01, 11.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
A820	If FIRST HARMFUL EVENT equals 46, and RELATION TO JUNCTION (a) equals 1 and RELATION TO JUNCTION (b) does not equal 02, 03, 05, then ROUTE SIGNING should not equal 1.
A830	If FIRST HARMFUL EVENT equals 46, then SPEED LIMIT should be less than 55 for the vehicle involved in the first harmful event.
A840	If ROUTE SIGNING equals 7, then ROADWAY FUNCTION CLASS should equal 01, 02, 11-13.
A850	If ROADWAY FUNCTION CLASS equals 02, 12, and ROUTE SIGNING equals 2, then NATIONAL HIGHWAY SYSTEM should equal 1.
A860	If NATIONAL HIGHWAY SYSTEM equals 1, then ROADWAY FUNCTION CLASS should equal 01, 02, 11-13.
A881	If RELATION TO TRAFFICWAY equals 11, then TRAFFICWAY DESCRIPTION should equal 5 for at least one vehicle.
A882	If RELATION TO TRAFFICWAY equals 07, then ROUTE SIGNING should not equal 1.
A883	If RELATION TO TRAFFICWAY equals 07, then ROADWAY FUNCTION CLASS should not equal 01, 11, 12.
A890	If RELATION TO JUNCTION equals 01, then TRAFFIC CONTROL DEVICE should not equal 01-03 for any vehicle involved in the first harmful event.
A900	If SPEED LIMIT equals 60, 65 for every vehicle, then ROADWAY FUNCTION CLASS should not equal 05, 06, 14-16.
A910	If ROADWAY FUNCTION CLASS equals 03-06, 14-16, then NATIONAL HIGHWAY SYSTEM should equal 0, 9.
A920	If NATIONAL HIGHWAY SYSTEM equals 0, 9, then ROADWAY FUNCTION CLASS should not equal 02, 12, and ROUTE SIGNING should not equal 2.

ERROR CODE	ERROR TEST
A930	If INTERSTATE HIGHWAY equals 1 and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, then TRAFFIC CONTROL DEVICE should not equal 01-03, 20, 23 or 65 for at least one vehicle involved in the first harmful event.
A940	If STATE NUMBER equals 11, then maximum SPEED LIMIT (not including 98 or 99) should equal 55.
A945	If STATE NUMBER equals 15, then maximum SPEED LIMIT (not including 98 or 99) should equal 60.
A950	If STATE NUMBER equals 09, <b>10, 24, 25, 34, 36, 41,</b> 43, 44, 50, 55, then maximum SPEED LIMIT (not including 98 or 99) should equal 65.
A955	If STATE NUMBER equals 01, 05, 06, 12, 13, <b>17,</b> 18, 19, 20, 21, 22, 26, 27, 28, 29, <b>33, 37, 39, 42,</b> 45, 47, 51, 53, 54, then maximum SPEED LIMIT (not including 98 or 99) should equal 70.
A960	If STATE NUMBER equals 04, 08, 16, 30, 31, 32, 35, 38, 40, 46, 48, 49, 56, then maximum SPEED LIMIT (not including 98 or 99) should equal 75.
A965	If PSU equals 72, 91, 9, 21, 22, 4, 1, 2, 3, 23, 24, 25, 26, 30, 5, 6, 7, 8, 71, then maximum SPEED LIMIT (not including 98 or 99) should equal 65.
A970	If PSU equals 47, 48, 79, 80, 96, 97, <b>41, 42, 61, 73, 93,</b> 28, 10, 11, 12, 13, <b>29, 31,</b> 32, 33, 92, 43, 44, 45, 46, 27, 81, 82, then maximum SPEED LIMIT (not including 98 or 99) should equal 70.
A975	If PSU equals 76, 77, 78, 75, 94, 74, 95, 64, 49, 50, 51, 62, 63, then maximum SPEED LIMIT (not including 98 or 99) should equal 75.
AB1P	If VEHICLE CONFIGURATION equals 01, then CARGO BODY TYPE must NOT equal 22.
AC0A	If RELATION TO JUNCTION (b) equals 02, 03, then the second TRAFFICWAY IDENTIFIER should not be all blank.
AC1A	If FIRST HARMFUL EVENT equals <b>54</b> , then MANNER OF COLLISION should equal 11.

**ERROR CODE    ERROR TEST**

AD0P	If VEHICLE CONFIGURATION equals 04, 06-08, then VEHICLE TRAILING must not equal 0.
AE0P	If VEHICLE CONFIGURATION equals 05 and CARGO BODY TYPE does not equal 12, then VEHICLE TRAILING must equal 0.
AE1P	If VEHICLE CONFIGURATION equals 05-08, then BODY TYPE must equal 66.
AF1P	If VEHICLE CONFIGURATION equals 20, then CARGO BODY TYPE must equal 22.
AF2P	If VEHICLE CONFIGURATION equals 20, 21, then BODY TYPE must equal 20, 21, 50-52, 55, 58, 59.
AH0P	If VEHICLE CONFIGURATION does not equal 00, 99, then BODY TYPE should equal 15, 16, 21, 28, 31, 40, 41, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 92, 93, or HM2 must equal 2.
AH1P	If BUS USE equals 08, then BODY TYPE must equal 21, 22, 28, 29, 50-59.
AH2P	If BUS USE equals 06, then BODY TYPE should equal 21 or 52 or 55.
AK00	If CARGO BODY TYPE equals 22, 96, then JACKKNIFE should equal 0.
AL0P	If CARGO BODY TYPE equals 22, then BODY TYPE must equal 21, 50-52, 55, 58, 59.
AL1P	If SEQUENCE OF EVENTS equals 51, 62, 70, then VEHICLE TRAILING must not equal 0.
AL2P	If SEQUENCE OF EVENTS equals 45, then WORK ZONE should equal 1-4.
<b>AL3P</b>	<b><i>If UNIT TYPE equals 2-4, then MOST HARMFUL EVENT must not equal 54 for this vehicle.</i></b>
<b>AL4P</b>	<b><i>If there is one and only one parked vehicle (UNIT TYPE equals 2 or 3) in the crash, then MOST HARMFUL EVENT for the parked vehicle must not equal 14.</i></b>

ERROR CODE	ERROR TEST
AL5P	If UNIT TYPE equals 1, then at least one event in the SEQUENCE OF EVENTS must equal the MOST HARMFUL EVENT.
AL6P	If MOST HARMFUL EVENT equals , and UNIT TYPE equals 1, then at least one event in the SEQUENCE OF EVENTS must equal .
<b>AL7P</b>	<b><i>If UNIT TYPE equals 2-4, then MOST HARMFUL EVENT should not equal 04-07, 16, 51, 72.</i></b>
AL8P	If SEQUENCE OF EVENTS equals 51, 70, then JACKKNIFE must equal 2, 3.
AM0P	If CARGO BODY TYPE does not equal 00, 99, then BODY TYPE should equal 15, 16, 21, 28, 31, 40, 41, 45, 48-52, 55, 58-64, 66, 67, 71, 72, 78, 92, 93, or HM2 must equal 2.
AM1P	If FIRST HARMFUL EVENT equals 54 or 73, or SEQUENCE OF EVENTS equals 54, 73 for any vehicle, then one RELATED FACTORS-CRASH LEVEL must equal 14.
AM2P	If any SEQUENCE OF EVENTS equals 25 or 57, then TRAFFICWAY DESCRIPTION should equal 3, 6.
AQ0P	If REGISTRATION STATE equals 00, 92, then REGISTERED VEHICLE OWNER must equal 0, 5, 6.
AR0P	If SPECIAL USE equals 04, then REGISTERED VEHICLE OWNER must not equal 0, 1-2, 4.
AS0P	If RELATED FACTORS-VEHICLE LEVEL equals 32, then REGISTERED VEHICLE OWNER must not equal 0.
AT00	An ATMOSPHERIC CONDITIONS 01-08, 10-12, 98, 99 can be used only once per crash.
AT10	If first ATMOSPHERIC CONDITIONS equals 99, then second ATMOSPHERIC CONDITIONS must equal 00.
AT20	If first ATMOSPHERIC CONDITIONS equals 01-08, 10-12, 99, then second ATMOSPHERIC CONDITIONS must not equal 99.
AT30	First ATMOSPHERIC CONDITIONS must not equal 00.

ERROR CODE	ERROR TEST
AT40	If the first ATMOSPHERIC CONDITIONS equals 01, then the second ATMOSPHERIC CONDITIONS must equal 00 or 10.
AV0P	If REGISTERED VEHICLE OWNER equals 3, 4, then REGISTRATION STATE must not equal 99.
AZ1P	If UNIT TYPE equals 1, and FIRE OCCURRENCE equals 1, then at least one SEQUENCE OF EVENTS must equal 02.
AZ20	If UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.
AZ2P	If <b>FIRST HARMFUL EVENT does not equal 02-07, 16, 44, 51, 72, and</b> CRITICAL EVENT-PRECRASH (EVENT) equals 14, and ATTEMPTED AVOIDANCE MANEUVER equals 01, then CRASH TYPE must equal 14 <b>for the vehicle involved in the first harmful event.</b>
AZ30	If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00, then ATTEMPTED AVOIDANCE MANEUVER must equal 00.
AZ50	If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00, then PRE-IMPACT STABILITY must equal 0.
AZ5P	If CRITICAL EVENT-PRECRASH (EVENT) equals 70-73 for a vehicle involved in the first harmful event, then RELATION TO JUNCTION (b) should equal 04 or 08.
AZ60	If PRE-IMPACT STABILITY equals 0, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.
AZ6P	If any DRIVER MANEUVERED TO AVOID equals 00, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 17.
AZ70	If PRE-IMPACT LOCATION equals 0, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.
AZ7P	If any DRIVER MANEUVERED TO AVOID equals 00 or 95 or 98 or 99, then only that one code and no other must be coded for this vehicle.

ERROR CODE	ERROR TEST
AZ80	If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00, then PRE-IMPACT LOCATION must equal 0.
AZA0	If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 05 or 07, then TRAVEL SPEED should equal 000 for this vehicle.
AZBP	If any DRIVER MANEUVERED TO AVOID equals 03, then CRITICAL EVENT – PRECRASH (EVENT) should equal 87-89.
AZCP	If any DRIVER MANEUVERED TO AVOID equals 05, then CRITICAL EVENT – PRECRASH (EVENT) should equal 80-85.
AZDQ	<b><i>If DRIVER MANEUVERED TO AVOID equals 04, then NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.</i></b>
AZEP	If any DRIVER MANEUVERED TO AVOID equals 01, then CRITICAL EVENT – PRECRASH (EVENT) should equal 90-92.
B10P	If <b><i>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) does not equal 17, and ATTEMPTED AVOIDANCE MANEUVER equals 01,</i></b> then DRIVER MANEUVERED TO AVOID should equal <b><i>00</i></b> .
B13P	If CRASH TYPE equals 20-49, and ATTEMPTED AVOIDANCE MANEUVER equals 00-01, then CRITICAL EVENT-PRECRASH (EVENT) should not equal 12-14, 54, 66-68, 71-73 or 80-85.
B15P	If CRITICAL EVENT-PRECRASH (EVENT) equals 91, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01, and the vehicle is involved in the first harmful event, then CRASH TYPE should equal 15.
B16P	If CRITICAL EVENT-PRECRASH (EVENT) equals 90, and ATTEMPTED AVOIDANCE MANEUVER equals 01, and the vehicle is involved in the first harmful event, then CRASH TYPE should equal 12 or 15.

**ERROR CODE    ERROR TEST**

<b>B17P</b>	<b><i>If CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 09 for this driver, then CRITICAL EVENT: PRECRASH (EVENT) should not equal 08 for this driver's vehicle.</i></b>
BA0P	If EJECTION equals 0, 8, then EJECTION PATH must equal 0.
BB0P	If EJECTION equals 1-3, 9, then EJECTION PATH must equal 1-9, or blanks.
BC0P	If EJECTION PATH equals 1-9, then EJECTION must equal 1-3, 7 or 9.
BE0P	If BODY TYPE equals 80-83, 88, 89, then EJECTION PATH must equal 0.
BF0F	If PERSON TYPE equals 04-08, 10, 19, then EJECTION PATH must equal 0.
BI0P	If DRIVER'S LICENSE STATE equals 99, then COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1, 2.
BJ0P	If DRIVER PRESENCE equals 0, 9, then COMPLIANCE WITH CDL ENDORSEMENTS must be blank.
BJ1P	If UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9, then DRIVER DISTRACTED BY must equal 16.
BJ2P	If UNIT TYPE equals 1, and DRIVER PRESENCE equals 1, then DRIVER DISTRACTED BY must not equal 16 or blank.
BJ3P	If UNIT TYPE equals 1, and DRIVER DISTRACTED BY equals 16, then DRIVER PRESENCE must equal 0 or 9.
BJ4P	If any DRIVER DISTRACTED BY equals 03, then NUMBER OF OCCUPANTS must be greater than 01.
BJ7P	If any DRIVER DISTRACTED BY equals 00 or 01 or 16 or 17 or 18 or 19 or 92 or 93 or 96 or 99, then only that one code and no other must be used.
BK0P	If LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 1, then COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1-3, 9.

ERROR CODE	ERROR TEST
BL0P	If COMPLIANCE WITH CDL ENDORSEMENTS equals 1, and any RELATED FACTORS-DRIVER LEVEL equals 19, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE must equal 3.
BN0P	If DRIVER PRESENCE equals 0, 9, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS must be blank.
BP0P	If MODEL YEAR is greater than 1999, and BODY TYPE does not equal 50-52, 58-66, 71-79, 80-83, 88-93, 95, 97 and SEATING POSITION equals 11, 13, 18, 19 then AIRBAG DEPLOYED should not equal 00.
BQ0P	If METHOD OF DRUG DETERMINATION BY POLICE equals 8, then POLICE-REPORTED DRUG INVOLVEMENT must equal 0, 1, 8, 9.
BR0P	If METHOD OF DRUG DETERMINATION BY POLICE equals 1-7, then POLICE-REPORTED DRUG INVOLVEMENT must equal 0, 1, 8.
BT1P	If DRUG TEST STATUS equals 0, 1, then all DRUG TEST TYPE must equal 0, and all DRUG TEST RESULT must equal 000.
BT2P	If DRUG TEST STATUS equals 8, then DRUG TEST TYPE 1 must equal 6, and all DRUG TEST RESULT 1 must equal 095 and remaining DRUG TEST TYPES and DRUG TEST RESULTS must be 0 filled.
BT3P	If DRUG TEST STATUS equals 2, then at least one DRUG TEST TYPE must equal 1-8, <u>and one</u> corresponding DRUG TEST RESULT must equal 001, <b>095</b> , 100-295, 300-395, 400-495, 500-595, 600-695, 700-795, 800-895, 900-995, 996-998.
BT6P	If DRUG TEST STATUS equals 9, then all DRUG TEST TYPE must equal 9, and DRUG TEST TYPE 1 must equal 9, and all DRUG TEST RESULT 1 must equal 999 and remaining DRUG TEST TYPES and DRUG TEST RESULTS must be 0 filled.
BT7P	If DRUG TEST STATUS equals 2, and DRUG TEST RESULT one equals 001, <b>095</b> , 100-295, 300-395, 400-495, 500-595, 600-695, 700-795, 800-895, 900-995, 996, 997, 998, then DRUG TEST RESULT <u>two and three</u> must not equal 999.

**ERROR CODE    ERROR TEST**

BT8P	More than one of the <u>same</u> DRUG TEST RESULT values must not be coded for the same person except for 000, 996.
BT9P	If DRUG TEST RESULT 1 equals 000, 001, 997, 998, 095, or 999, then DRUG TEST RESULT 2 and DRUG TEST RESULT 3 must equal 000.
BY0P	DRIVER'S ZIP CODE must be a valid code, blanks, 00000 or 99999.
BZ10	If CRITICAL EVENT- PRECRASH (EVENT) equals 53, then AREAS OF IMPACT-INITIAL CONTACT POINT should not equal 12 for this vehicle.
BZ20	If CRITICAL EVENT-PRECRASH (EVENT) equals 51, 52, then AREAS OF IMPACT-INITIAL CONTACT POINT should not equal 06 for this vehicle.
BZ40	If CRITICAL EVENT - PRECRASH (EVENT) equals 01, then at least one SEQUENCE OF EVENTS must equal 61 for this vehicle.
BZ50	If CRITICAL EVENT - PRECRASH (EVENT) equals 12, and PRE-IMPACT LOCATION is not equal to 5, then at least one SEQUENCE OF EVENTS must equal 64 for this vehicle.
BZ60	If CRITICAL EVENT - PRECRASH (EVENT) equals 13, and PRE-IMPACT LOCATION is not equal to 5, then at least one SEQUENCE OF EVENTS must equal 63 for this vehicle.
BZ70	If CRITICAL EVENT - PRECRASH (EVENT) equals 14, then at least one SEQUENCE OF EVENTS must equal 71 for this vehicle.
BZ80	If MANNER OF COLLISION equals 00, then PRECRASH – CRASH TYPE must equal 00, 01-16, 92, 98, 99 for the vehicle in the first harmful event.
BZ90	If CRASH TYPE equals 01-05, and PRE-IMPACT LOCATION is not equal to 5, then at least one SEQUENCE OF EVENTS prior to the first harmful event must equal 63.
BZ91	If CRASH TYPE equals 06-10, and PRE-IMPACT LOCATION is not equal to 5, then at least one SEQUENCE OF EVENTS prior to the first harmful event must equal 64.

ERROR CODE	ERROR TEST
CB0P	If REGISTERED VEHICLE OWNER equals 6, then DRIVER PRESENCE must equal 0.
CC0P	If COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00, 99, then COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1.
CG0P	If LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0, then COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1, 3.
CI0P	If VEHICLE TRAILING equals 1-4, then JACKKNIFE must not equal 0.
CJ00	If PREVIOUS RECORDED CRASHES equals 98, then DRIVER'S LICENSE STATE should equal 09, 13, <b>28</b> , 30, 35, 49.
CK0P	If PERSON TYPE equals 07, then RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 09, 13, 69, 70, 86-87, 90.
CL0P	If PERSON TYPE equals 09, then RELATED FACTORS-PERSON LEVEL (MV Occupant) must not equal 21, 26, 28, 29, 33, 37, 40-42, 44, 45, 47, 51, 52, 56-70, 72-78, 80-83, 91.
CM0P	If PERSON TYPE equals 19, then RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 13, 69, 70, 90.
CSI1	NUMBER OF VEHICLE FORMS must equal the actual number of Vehicle Level forms for this case.
CSI2	There must be exactly one Driver Level form corresponding to each Vehicle Level form.
CSI3	NUMBER OF MOTOR VEHICLE OCCUPANT FORMS SUBMITTED must equal the actual number of Person Level (Motor Vehicle Occupant) forms for this case.
CSI4	NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES must equal the actual number of persons not in motor vehicles in this case.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
CSI5	If VEHICLE NUMBER at the Person Level is greater than 000, then VEHICLE NUMBER at the Person Level must equal a VEHICLE NUMBER at the Vehicle Level.
CSI6	For each VEHICLE NUMBER, PERSON NUMBERS must be consecutive, beginning with 001 and with no gaps.
CSI7	PERSON NUMBERS for persons not in motor vehicles must be consecutive, beginning with 001 and with no gaps.
D010	If DRIVER'S LICENSE STATE equals 96, 97, then PREVIOUS RECORDED CRASHES should equal 99.
D020	If DRIVER'S LICENSE STATE equals 96, 97, then PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS should equal 99.
D030	If DRIVER'S LICENSE STATE equals 96, 97, then PREVIOUS DWI CONVICTIONS should equal 99.
D040	If DRIVER'S LICENSE STATE equals 96, 97, then PREVIOUS SPEEDING CONVICTIONS should equal 99.
D050	If DRIVER'S LICENSE STATE equals 96, 97, then PREVIOUS OTHER HARMFUL MV CONVICTIONS should equal 99.
D060	If NON-CDL LICENSE STATUS equals 1-4, 6, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 1-8, and PERSON TYPE equals 01, then AGE should not be less than 015.
D080	If VIOLATION CHARGED equals 01-06, 09, 31-69, 81-91, 98, then RELATED FACTORS-DRIVER LEVEL should not all equal 00, 99.
D090	If VIOLATIONS CHARGED equals 11-19, and PERSON TYPE equals 01, 03, then POLICE-REPORTED ALCOHOL INVOLVEMENT should equal 1, or POLICE-REPORTED DRUG INVOLVEMENT should equal 1.
D091	DRIVER LICENSE NUMBER must not equal the VEHICLE LICENSE PLATE NUMBER for the vehicle driven.
D100	If NON-CDL LICENSE STATUS equals 9, then all driver history counters PREVIOUS RECORDED CRASHES should equal 99.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
D110	If NON-CDL LICENSE STATUS equals 9, then all driver history counters PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS should equal 99.
D120	If NON-CDL LICENSE STATUS equals 9, then all driver history counters PREVIOUS DWI CONVICTIONS should equal 99.
D130	If NON-CDL LICENSE STATUS equals 9, then all driver history counters PREVIOUS SPEEDING CONVICTIONS should equal 99.
D140	If NON-CDL LICENSE STATUS equals 9, then all driver history counters PREVIOUS OTHER HARMFUL MV CONVICTIONS should equal 99.
D150	If the sum of all counters less than 98 is greater than five but less than fifteen, then DATE OF LAST CRASH, SUSPENSION, CONVICTION should not equal DATE OF FIRST CRASH, SUSPENSION, CONVICTION.
D160	If NON-CDL LICENSE STATUS does not equal 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS does not equal 99, then DRIVER'S ZIP CODE should not equal 99999.
D180	If DRIVER LICENSE STATE equals 95-97, then DRIVER ZIP CODE should not equal 99999.
D260	If NON-CDL LICENSE STATUS equals 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 99, then COMPLIANCE WITH LICENSE RESTRICTIONS should not equal 0.
D270	If BODY TYPE equals 50-52, 55, 63, 66, 72, or HM1 equals 2, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.
D280	If VEHICLE CONFIGURATION equals 05-08, 21, or HM1 equals 2, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.
D300	If HM2 equals 2, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00 or 99.
D310	If HM2 equals 2, then COMPLIANCE WITH CDL ENDORSEMENTS should equal 1-3.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
D320	If DRIVER'S LICENSE STATE does not equal 93-99, then DRIVER'S ZIP CODE should equal 9999 or be a valid zip code for DRIVER'S LICENSE STATE.
D330	If DRIVER PRESENCE equals 0, and REGISTRATION STATE is not equal to 00, 92, 99, then REGISTERED VEHICLE OWNER should equal 3-6.
D340	If NON-CDL LICENSE STATUS equals 1-4, 6, 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 01-08, 99, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 0.
D350	If VIOLATIONS CHARGED equals 71, then NON-CDL LICENSE STATUS should not equal 0, 3, 6, 9.
D380	If NON-CDL LICENSE STATUS equals 9, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE should equal 1, 9.
D390	If NON-CDL LICENSE STATUS equals 0, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 2, 3, 8, 9.
D400	If NON-CDL LICENSE STATUS equals 0-4, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 3, 8, 9.
D410	If LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0, then COMPLIANCE WITH CDL ENDORSEMENTS should not equal 1-3, 9.
D420	If COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 0, then COMPLIANCE WITH CDL ENDORSEMENTS should not equal 1-3.
D430	If COMPLIANCE WITH CDL ENDORSEMENTS equals 1-3, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.
D440	If COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00, then BODY TYPE should not equal 50-52, 55, 63, 66, 72, and HM2 should not equal 2.
D450	If COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00, then VEHICLE CONFIGURATION should not equal 05-08, 21, and HM2 should not equal 2.

ERROR CODE	ERROR TEST
D460	If COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 9, then COMPLIANCE WITH CDL ENDORSEMENTS should equal 0, 3, 9.
D470	If any RELATED FACTORS-DRIVER LEVEL equals 37, then at least one RELATED FACTORS-CRASH LEVEL should equal 20.
D480	If DRIVER'S LICENSE STATE equals 09, 13, <b>28</b> , 30, 35, 49, then PREVIOUS RECORDED CRASHES should equal 98.
D500	If VIOLATIONS CHARGED equals 05, then at least one RELATED FACTORS-CRASH LEVEL should equal 20.
D530	If any VIOLATIONS CHARGED equals 36 for a vehicle involved in the first harmful event, then RELATION TO JUNCTION (b) should equal 06.
D560	If VIOLATIONS CHARGED equals 66, then BODY TYPE should equal 80-83, 88, 89.
D570	If any VIOLATIONS CHARGED equal 83, then not all occupants of this vehicle should have RESTRAINT SYSTEM/HELMET USE equal 01-05, 08, 10-12, 16, 19.
D580	If VIOLATIONS CHARGED equals 85, then HM1 should equal 2.
D5A0	If VIOLATIONS CHARGED equals 21-25, 29, then SPEEDING RELATED must equal 2-5.
D5B0	If any VIOLATIONS CHARGED equals 11-13, 18, 19, then at least one CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) should equal 09.
D5E0	If any VIOLATIONS CHARGED equals 00 or 97, then only that one code and no other must be coded for this driver.
D600	If DRIVER HEIGHT/INCHES is greater than 11, then DRIVER HEIGHT/INCHES should not be less than 48.
D610	If DRIVER HEIGHT/FEET is not blank, then DRIVER HEIGHT/FEET should not be less than 3.
D620	If NON-CDL LICENSE TYPE equals 7, then AGE (for the driver) should equal 014-016.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
D630	If NON-CDL LICENSE TYPE equals 2, then AGE (for the driver) should equal 015-017.
D640	If AGE equals 014-017, and PERSON TYPE equals 01, then NON-CDL LICENSE TYPE should equal 2, 7.
D650	If AGE equals 018-120, and PERSON TYPE equals 01, and NON-CDL LICENSE STATUS does not equal 0, then NON-CDL LICENSE TYPE should equal 1.
D680	If NON-CDL LICENSE TYPE does not equal 0, 9, then NON-CDL LICENSE STATUS should not equal 0, 9.
D690	If NON-CDL LICENSE TYPE equals 2, 7, and COMPLIANCE WITH LICENSE RESTRICTIONS equals 2, then RELATED FACTORS-DRIVER LEVEL should equal 73, 74.
D700	If NON-CDL LICENSE TYPE equals 1, and COMPLIANCE WITH LICENSE RESTRICTIONS equals 2, then RELATED FACTORS-DRIVER LEVEL should equal 74.
D710	If DRIVER'S LICENSE STATE equals 02, 04, 09, 15, 20, 21, 30, 38, 40, 56, then NON-CDL LICENSE TYPE should not equal 2.
D730	If RELATED FACTORS-DRIVER LEVEL equals 73, then COMPLIANCE WITH LICENSE RESTRICTIONS should equal 2, and NON-CDL LICENSE TYPE should equal 2, 7.
E01P	If NOTIFICATION TIME EMS equals 9998, then ARRIVAL TIME EMS must equal 9998, and EMS TIME AT HOSPITAL must equal 8888 or 9998.
E02P	If ARRIVAL TIME EMS equals 9998, then EMS TIME AT HOSPITAL must equal 8888 or 9998.
E03P	If ARRIVAL TIME EMS equals 8888, then NOTIFICATION TIME EMS and EMS TIME AT HOSPITAL must equal 8888.
E04P	If NOTIFICATION TIME EMS equals 8888, then ARRIVAL TIME EMS and EMS TIME AT HOSPITAL must equal 8888.
E05P	If EMS TIME AT HOSPITAL equals 9997, then ARRIVAL TIME EMS must equal 9997.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
E06P	If ARRIVAL TIME EMS equals 9997, then EMS TIME AT HOSPITAL must equal 9997.
E07P	If ARRIVAL TIME EMS equals 9997, then NOTIFICATION TIME EMS must not equal 8888, 9998.
E08P	If NOTIFICATION TIME EMS is not 8888, 9998, and EMS TIME AT HOSPITAL is not 8888, 9996, 9997, 9998, then ARRIVAL TIME EMS must not equal 9997 or 9998.
FA0F	If FIRST HARMFUL EVENT equals blank, case status is flawed.
FA1F	CRASH TYPE for all in-transport vehicles not involved in the first harmful event must equal 98.
FD0F	If DRIVER PRESENCE is blank, case status is flawed.
FP0F	If PERSON TYPE is blank, case status is flawed.
FP1F	If AREAS OF IMPACT - INITIAL CONTACT POINT equals blank, case status is flawed.
FP2F	If UNIT TYPE equals 1, and CRASH TYPE equals blank, case status is flawed.
FP3F	If UNIT TYPE is blank, case status is flawed.
FP4F	If CRASH DATE is blank, case status is flawed.
FP5F	If CRASH TIME is blank, case status is flawed.
FP6F	If UNIT TYPE equals 1, and CRITICAL EVENT – PRECRASH (CATEGORY) equals blank, case status is flawed.
FP7F	If UNIT TYPE equals 1, and CRITICAL EVENT – PRECRASH (EVENT) equals blank, case status is flawed.
FP8F	If INJURY SEVERITY is blank, case status is flawed.
FP9F	If PERSON TYPE equals 05, 06, 07, 08 and the PEDESTRIAN/BIKE - CRASH TYPE equals blank, case status is flawed.

**ERROR CODE    ERROR TEST**

G01P	If STATE is _____ and GLOBAL POSITION - LATITUDE (degrees) is not equal to 77, 88, 99, then LATITUDE (degrees) must be equal to, or greater than ( <u>1d</u> ) and LATITUDE (degrees) must not be greater than ( <u>2d</u> ).
G02P	If STATE is _____ and GLOBAL POSITION - LATITUDE (degrees) equals ( <u>1d</u> ), then LATITUDE (minutes) must be equal to, or greater than ( <u>1s</u> ).
G03P	If STATE is _____ and GLOBAL POSITION - LATITUDE (degrees) equals ( <u>2d</u> ), then LATITUDE (minutes) must not be greater than ( <u>2s</u> ).
G04P	If STATE is _____ and GLOBAL POSITION - LONGITUDE (degrees) is not equal to 777, 888, 999, then LONGITUDE (degrees) must be equal to, or greater than, ( <u>3d</u> ) and LONGITUDE (degrees) must not be greater than ( <u>4d</u> ).
G05P	If STATE is _____ and GLOBAL POSITION - LONGITUDE (degrees) equals ( <u>3d</u> ), then LONGITUDE (minutes) must be equal to, or greater than ( <u>3s</u> ).
G06P	If STATE is _____ and GLOBAL POSITION - LONGITUDE (degrees) equals ( <u>4d</u> ), then LONGITUDE (minutes) must not be greater than ( <u>4s</u> ).
G07P	If any part of GLOBAL POSITION - LATITUDE (degrees, minutes or seconds) is all 8's, then all parts of LATITUDE must be all 8's.
G08P	If any part of GLOBAL POSITION - LONGITUDE (degrees, minutes or seconds) is all 8's, then all parts of LONGITUDE must be all 8's.
G09P	If any part of GLOBAL POSITION - LATITUDE (degrees, minutes or seconds) is all 9's, then all parts of LATITUDE must be all 9's.
G10P	If any part of GLOBAL POSITION - LONGITUDE (degrees, minutes or seconds) is all 9's, then all parts of LONGITUDE must be all 9's.
G11P	If any part of GLOBAL POSITION - LATITUDE (degrees, minutes or seconds) is blank, then all parts of LATITUDE must be blank.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
G12P	If any part of GLOBAL POSITION - LONGITUDE (degrees, minutes or seconds) is blank, then all parts of LONGITUDE must be blank.
G0AP	If any part of GLOBAL POSITION - LONGITUDE (degrees, minutes or seconds) is all 7's, then all parts of LONGITUDE must be all 7's.
G0BP	If any part of GLOBAL POSITION - LATITUDE (degrees, minutes or seconds) is all 7's, then all parts of LATITUDE must be all 7's.
P010	If PERSON TYPE equals 01, then AGE should not be less than 012.
P01F	If PERSON TYPE equals 01-03, 09, and RESTRAINT SYSTEM/HELMET USE equals 01-04, 08, 10-12, and BODY TYPE does not equal 80-89, then EJECTION should equal 0 or 7.
P020	If PERSON TYPE equals 02, 03, 09, and RESTRAINT SYSTEM/HELMET USE equals 04, 10-12, then AGE should be less than 010, or equal to 998 or 999.
P030	If PERSON TYPE equals 01, then SEATING POSITION should not equal 12-19.
P040	If PERSON TYPE equals 02, 09, then SEATING POSITION should not equal 11.
P050	If EJECTION equals 1, then RESTRAINT SYSTEM/HELMET USE should not equal 01-04, 08, 10-12.
P060	If SEATING POSITION equals 18, 28, 38, 48, 50-55, then RESTRAINT SYSTEM/HELMET USE should not equal 01, 03.
P071	If PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4, then ALCOHOL TEST STATUS should not equal 9, and ALCOHOL TEST TYPE should not equal 99, and ALCOHOL TEST RESULT should not equal 99.
P072	If PERSON TYPE equals 02, 03, and INJURY SEVERITY equals 0, and ALCOHOL TEST RESULT equals 96, then POLICE-REPORTED ALCOHOL INVOLVEMENT should equal 0, 8.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
P073	If PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4, then DRUG TEST STATUS should not equal 9, and any DRUG TEST TYPE should not equal 9, and any DRUG TEST RESULTS should not equal 999.
P074	If PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4, then ALCOHOL TEST STATUS must not equal 8, ALCOHOL TEST TYPE must not equal 95, and ALCOHOL TEST RESULT must not equal 95.
P075	If PERSON TYPE equals 02, 04-08, 10, and INJURY SEVERITY does not equal 4, then DRUG TEST STATUS must not equal 8, any DRUG TEST TYPE must not equal 6, and any DRUG TEST RESULTS must not equal 095.
P080	ALCOHOL TEST RESULTS should not equal 34-94. P090  If INJURY SEVERITY equals 0, then TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.
P091	If TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 1, 3, 5, then EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.
P093	If all persons TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 2, 4, then NOTIFICATION TIME EMS, ARRIVAL TIME EMS, EMS TIME AT HOSPITAL must equal 8888.
P094	If EJECTION equals 8, then SEATING POSITION must equal 55, or BODY TYPE must equal 80-83, 88, 89.
P110	If METHOD OF ALCOHOL DETERMINATION BY POLICE equals 1-5, 8, then POLICE-REPORTED ALCOHOL INVOLVEMENT should equal 0, 1.
P130	If BODY TYPE equals 60-67, 71, 72, 78, 79, and PERSON TYPE equals 01, 03, and INJURY SEVERITY equals 4, then FATAL INJURY AT WORK should equal 1.
P140	If POLICE-REPORTED DRUG INVOLVEMENT equals 8, 9, then METHOD OF DRUG DETERMINATION BY POLICE should equal 8.
P150	If POLICE-REPORTED DRUG INVOLVEMENT equals 1, then DRUG TEST STATUS should not equal 0.

ERROR CODE	ERROR TEST
P160	If POLICE-REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2, then not all DRUG TEST RESULTS should equal 001.
P170	If METHOD OF DRUG DETERMINATION BY POLICE equals 1-7, then POLICE-REPORTED DRUG INVOLVEMENT should equal 0, 1.
P180	If PERSON TYPE equals 01, and AGE is less than 009, then BODY TYPE should not equal 90.
P1A0	If AGE is less than 012, and INJURY SEVERITY equals 4, then FATAL INJURY AT WORK should equal 0.
P200	If POLICE-REPORTED ALCOHOL INVOLVEMENT equals 8, 9, then METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 9.
P210	If AIR BAG DEPLOYED equals 28, then SEATING POSITION should equal 13.
P230	If SEATING POSITION equals 21, 23, 28, 29, 31, 33, 38 or 39, and BODY TYPE equals 50-97, then AIR BAG DEPLOYED should equal 00.
P260	If SEATING POSITION equals 18,19, then AIR BAG DEPLOYED should equal 00, 99.
P290	If AIR BAG DEPLOYED equals 01-03, 07-09, 20, 28, and BODY TYPE equals 01-49, and MODEL YEAR equals 1998 or newer, then SEATING POSITION should equal 11, 13, 21, 23, 31 or 33.
P300	If POLICE-REPORTED ALCOHOL INVOLVEMENT equals 1, and INJURY SEVERITY equals 4, then ALCOHOL TEST STATUS should not equal 0, 1.
P310	If EJECTION equals 1-3, and BODY TYPE does not equal 90, 91, 97, then RESTRAINT SYSTEM/HELMET USE must not equal 05, 16, 17, 19, 29.
P320	If SEATING POSITION equals 22, 23, 31- <b>53</b> , then RESTRAINT SYSTEM/HELMET USE must not equal 05, 16, 17, 19, 29.
P330	If RESTRAINT SYSTEM/HELMET USE equals 00, then SEATING POSITION should equal 50-55.

ERROR CODE	ERROR TEST
P340	If SEATING POSITION equals 50, 52-55, then RESTRAINT SYSTEM/HELMET USE should equal 00.
P50P	If DIED AT SCENE/EN ROUTE equals 7, then TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.
P510	If EMS TIME AT HOSPITAL equals 8888, 9997, 9998, then DIED AT SCENE/EN ROUTE should not equal 8 for any PERSON.
P51P	If DIED AT SCENE/EN ROUTE equals 8, then TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 1-6.
P520	If CRASH DATE and DEATH DATE are the same, and CRASH TIME and DEATH TIME are the same, then TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0, and DIED AT SCENE/EN ROUTE should equal 7.
P52P	If DIED AT SCENE/EN ROUTE equals 9, then TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 8 or 9.
P530	If EMS TIME AT HOSPITAL equals 9996, then DIED AT SCENE/EN ROUTE must equal 8 for at least one person.
P53P	If INJURY SEVERITY equals 0-3, 5, 6, then DIED AT SCENE/EN ROUTE must equal 0.
P54P	If DIED AT SCENE/EN ROUTE equals 8, then EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.
P55P	If TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 9, then DIED AT SCENE/EN ROUTE must equal 0, 9.
P56P	If DIED AT SCENE/EN ROUTE equals 7, then DEATH TIME should be within 30 minutes of the CRASH TIME.
PB00	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 110-910, then at least one SEQUENCE OF EVENTS for the striking vehicle must equal 08 or 15.
PB02	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 111-980, then at least one SEQUENCE OF EVENTS for the striking vehicle must equal 09.

ERROR CODE	ERROR TEST
PB04	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> for a person involved in the first harmful event equals 211, 212, <b>461</b> , 465, 680, 830, 890, 900 or 910, then RELATION TO JUNCTION (b) must not equal 02. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).
PB05	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> for a person involved in the first harmful event equals 311, 312 or 313, then RELATION TO TRAFFICWAY must equal 01 or 11. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).
PB06	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 730, then TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-03.
PB07	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLE</b> for a person involved in the first harmful event equals 311, 312, <b>313</b> , 321, 322 or <b>323</b> , then RELATION TO JUNCTION (b) must equal 04 or 08. Note: this edit is restricted to vehicles which are involved in only one event with bicyclist(s).
PB08	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> for a person involved in the first harmful event equals 141-144, 147, 151-157 or 159, then RELATION TO JUNCTION (b) must equal 02 or 03. Note: this edit is restricted to vehicles which are involved in only one event with bicyclist(s).
PB09	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 141, 143, 151-158, 217 or 218, then TRAFFIC CONTROL DEVICE for the striking vehicle must not equal 00.
PB10	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 151, 156, 157, 217 or 218, then TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-04.
PB11	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 143 or 154, then TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-04, <b>08</b> , 20, 21, 28 or 29.
PB12	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> for a person involved in the first harmful event equals 510, 520 or 590, then RELATION TO TRAFFICWAY must not equal 01 or 11. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).

ERROR CODE	ERROR TEST
PB15	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 910, then <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must equal 03.
PB16	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 142, 144, 147, 153, 155, 156, 157, 159, 311, 312, 318, 319 or 357, then at least one <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> must equal 02.
PB17	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> for a person involved in the first harmful event equals 211-214 or 219, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, 13 or 97. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).
PB18	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 742, then at least one <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> must equal 01.
PB19	If <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> equals 08, then PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> must not equal 510, 520, 590, 830 or 890.
PB20	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 510, 520 or 590, then at least one <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must equal 02.
PB21	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 160, then TRAFFIC CONTROL DEVICE for the striking vehicle should equal 00.
PB22	If SCHOOL BUS RELATED equals 1, and PERSON TYPE equals 05 or 08, then PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 342.
PB23	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 342, and PERSON TYPE equals 05 or 08, then SCHOOL BUS RELATED should equal 1.
PB24	If PERSON TYPE equals 05 or 08, and NON-MOTORIST LOCATION AT TIME OF CRASH equals 14, 16, 20, 21, 22, 24 or 25, then PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 230, 320, 410, 420, 430, 440, 459, 510, 520, 590, 830 or 890.

ERROR CODE	ERROR TEST
PB25	If PERSON TYPE equals 05 or 08, and NON-MOTORIST LOCATION AT TIME OF CRASH equals 01-03 or 09, then PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 690, 710, 730, 741, 742, 760, 770, 781, 782, 791, 792, 794, 795 or 799.
PB26	If <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES</b> equals 02, and PERSON TYPE equals 06 or 07, then PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> should equal 142, 144, 147, 153, 155, 156, 157, 159, 311, 312, 313, 318, 319 or 357.
PB27	If <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> equals 05, and PERSON TYPE equals 05 or 08, then PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 410 or 420.
PB28	If <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> equals 06, and PERSON TYPE equals 05 or 08, then PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 430 or 440.
PB29	If <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> equals 04, and PERSON TYPE equals 05 or 08, then PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 410, 420, 430, 440 or 459.
PB30	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 220, then at least one DRIVER PRESENCE must equal 0 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
PB31	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 147, 157 or 357, then at least one DRIVER'S VISION OBSCURED BY must equal 06 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
PB32	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 742, then at least one DRIVER'S VISION OBSCURED BY must not equal 00 or 95 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.

ERROR CODE	ERROR TEST
PB33	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 156, then DRIVER'S VISION OBSCURED BY for the striking vehicle must not equal 06.
PB34	If NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals <b>01</b> , and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02, then PEDESTRIAN/ BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> must not equal 320, 330, 360, 680, 830, 890, 900, or 910.
PB35	If NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals <b>01</b> , and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02, then PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN must equal <b>1</b> .
PB36	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 250, then PERSON TYPE must equal 08.
PB37	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 311, 312 or 313, then at least one <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must equal 08 or 10.
PB38	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 410 or 420, and PEDESTRIAN/BIKE TYPING - PEDESTRIAN POSITION does not equal 5, then at least one <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must equal 05.
PB39	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 430 or 440, and PEDESTRIAN/BIKE TYPING - PEDESTRIAN POSITION does not equal 5, then at least one <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must equal 06.
PB40	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals <b>610</b> , then at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, or 13 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
PB41	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 215, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08 or 09 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.

ERROR CODE	ERROR TEST
PB42	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 111, 211 or 212, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 11 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
PB43	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 112, 151, 213, 214, 217 or 218, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
PB44	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 240, then EMERGENCY MOTOR VEHICLE USE should equal 2-6 for at least one vehicle.
PB45	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 781 or 782, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
PB46	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> equals 221-225, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 01 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
PB49	If PERSON TYPE equals 05 or 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, then at least one PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 211-214 or 219.
PB50	If PERSON TYPE equals 05 or 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10-12 or 16 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, then at least one PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 460, 465, 510, 781, 782, 791, 792, 794, 795 or 799.

ERROR CODE	ERROR TEST
PB52	If PERSON TYPE equals 06 or 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, then at least one PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - BICYCLIST</b> should equal 610.
PB56	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 791, 792, 794, 795, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10 or 17 for the vehicle number identified in this person's NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.
PB58	<b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must not equal 05, 06 or 16 in combination.
PB59	If <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> equals 16, and PERSON TYPE equals 05 or 08, then PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 459.
PB60	If PERSON TYPE equals 05 or 08, and DRIVER PRESENCE equals 0 for the motor vehicle which strikes the non-motorist, then PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> should equal 220.
PB61	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 220, then DRIVER PRESENCE should equal 0 for the motor vehicle striking the non-motorist.
PB62	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 220, then at least one <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must equal 12.
PB63	If PEDESTRIAN/BIKE TYPING - <b>CRASH TYPE - PEDESTRIAN</b> equals 230, then at least one RELATED FACTOR - CRASH LEVEL should equal 19 or 23.
PB64	If any <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> equals 03 or 09, then the <b>NON-MOTORIST ACTION/CIRCUMSTANCES</b> must not also equal 05, 06 or 16 for this person.
PB66	<b>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 1, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 03, 09, 16 or 22.</b>

ERROR CODE	ERROR TEST
PB67	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 2, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20-25, 28, 98, 99.</i>
PB68	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 3, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20-24, 28, 98, 99.</i>
PB69	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 4, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24, 25, 98, 99.</i>
PB70	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 9, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 16, 22, 24, 98 or 99.</i>
PB71	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 1, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 03, 09, 16 or 22.</i>
PB72	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 2, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20, 21, 22, 23, 24, 25, 28, 98, 99.</i>
PB73	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 3, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20, 21, 22, 23, 24, 28, 98, 99.</i>
PB74	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 4, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24, 25, 98, 99.</i>
PB75	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 9, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 16, 22, 24, 98 or 99.</i>
PB76	<i>If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 01, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 03 or 16.</i>

ERROR CODE	ERROR TEST
PB77	<i>If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 02, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02 or 10.</i>
PB78	<i>If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 03, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 11, 13.</i>
PB79	<i>If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 04, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 14, 16, 20, 98 or 99.</i>
PB80	<i>If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 05, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 21, 23, 24, 98 or 99.</i>
PB81	<i>If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 06, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 20, 22, 28, 98 or 99.</i>
PB82	<i>If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 07 or 08, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.</i>
PB83	<i>If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 09, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 09, 20, 22, 28, 98 or 99.</i>
PB84	<i>If PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 1, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 03, 09, 11 or 13.</i>
PB85	<i>If PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 2, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 14, 16 or 20.</i>
PB86	<i>If PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 3, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 10, 21, 23, 98 or 99.</i>
PB87	<i>If PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 4, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24.</i>

ERROR CODE	ERROR TEST
PB88	<i>If PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 5 or 6, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.</i>
PB89	<i>If PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 8, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 20, 22, 28, 98 or 99.</i>
PB90	<i>If PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 9, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 22, 98 or 99.</i>
PB91	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 1, then PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 01, 02 or 09.</i>
PB92	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 2, then PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 03, 04, 05, 06, 07, 08 or 09.</i>
PB93	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 3, then PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 02, 03, 04, 05, 06, or 09.</i>
PB94	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 4, then PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 07, 08 or 09.</i>
PB95	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 9, then PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 02, 05 or 09.</i>
PB96	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 1, then PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 1, 2, 3, 8 or 9.</i>
PB97	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 3, then PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 1, 2, 3, 4, 8 or 9.</i>
PB98	<i>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 4, then PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 4, 5, 6 or 9.</i>

ERROR CODE	ERROR TEST
PB99	<b>If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION-BICYCLE equals 9, then PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 9.</b>
PBA0	<b>If PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 111, 211, 212, and VEHICLE NUMBER - VEHICLE LEVEL equals NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11.</b>
PBA1	<b>If PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 112, 151, 213, 214, 217 or 218, and VEHICLE NUMBER - VEHICLE LEVEL equals NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10.</b>
PC30	If PRE-IMPACT LOCATION for a vehicle involved in the first harmful event equals 4, 5, then RELATION TO TRAFFICWAY should not equal 01 or 11.
PC40	If PRE-IMPACT LOCATION for a vehicle involved in the first harmful event equals 1-3, 6, then RELATION TO TRAFFICWAY should equal 01 or 11.
PC50	If PRE-IMPACT LOCATION equals 2, then TOTAL LANES IN ROADWAY should not equal 1.
U010	UNLIKELY: SPECIAL JURISDICTION equals 02-04, 06.
U020	UNLIKELY: FIRST HARMFUL EVENT equals 02, 04, 06, 51, 72.
U030	UNLIKELY: FIRST HARMFUL EVENT <b>equals 12, 55</b> , and MANNER OF COLLISION equals 10, 11.
U040	UNLIKELY: REGISTRATION STATE equals 97.
U050	UNLIKELY: SPECIAL USE equals 04, 08.
<b>U060</b>	<b>UNLIKELY: TRAVEL SPEED should equal 98 or 99.</b>
U070	UNLIKELY: More than one vehicle with HIT-AND-RUN equal to 1.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
U080	If BODY TYPE does not equal 50-59, then UNLIKELY: SPECIAL USE equals 02 or 03.
U120	UNLIKELY: AGE should not be greater than 094, unless equal to 998, 999.
U130	UNLIKELY: SEATING POSITION equals 41-43, 48.
U150	UNLIKELY: NON-MOTORIST LOCATION AT TIME OF CRASH equals 16, 25.
U160	UNLIKELY: INJURY SEVERITY equals 6.
U170	UNLIKELY: RESTRAINT SYSTEM/HELMET USE equals 01.
U210	UNLIKELY: PREVIOUS RECORDED CRASHES is greater than 5 and less than 98.
U220	UNLIKELY: PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS is greater than 10 and less than 98.
U230	UNLIKELY: PREVIOUS DWI CONVICTIONS is greater than 5 and less than 98.
U240	UNLIKELY: PREVIOUS SPEEDING CONVICTIONS is greater than 5 and less than 98.
U250	UNLIKELY: PREVIOUS OTHER HARMFUL MV CONVICTIONS is greater than 5 and less than 98.
U260	UNLIKELY: DRIVER HEIGHT is less than 3 feet or greater than 7 feet, verify data.
U280	UNLIKELY: DRIVER HEIGHT is less than 36 inches or greater than 84 inches, verify data.
U290	UNLIKELY: DRIVER WEIGHT is less than 50 lbs. or greater than 399 lbs., verify data.
U340	UNLIKELY: HIT-AND-RUN equals 0 or 9, and SEX equals 9.
U350	UNLIKELY: INJURY SEVERITY equals 1-6, and SEATING POSITION equals 98.
U360	UNLIKELY: HIT-AND-RUN equals 0 or 9, and AGE equals 999.

ERROR CODE	ERROR TEST
U370	UNLIKELY: EXTENT OF DAMAGE equals 8 <i>if STATE NUMBER does not equal 48, 49, 53.</i>
U390	UNLIKELY: LIGHT CONDITION equals 8.
U410	UNLIKELY: DRIVER'S LICENSE STATE equals 98.
U420	UNLIKELY: SPECIAL USE equals 98.
U430	UNLIKELY: VEHICLE REMOVAL equals 8.
U440	UNLIKELY: VIOLATIONS CHARGED equals 97.
U450	UNLIKELY: REGISTRATON STATE equals 91.
U460	UNLIKELY: VEHICLE MODEL equals 997.
U470	UNLIKELY: BODY TYPE equals 98.
U480	UNLIKELY: VEHICLE MAKE equals 97.
U490	UNLIKELY: GVWR/GVCR equals 8 and VEHICLE MODEL YEAR is greater than 1980 and not equal to 9998 or 9999 and VEHICLE IDENTIFICATION NUMBER does not equal 0's, 8's or 9's.
U510	UNLIKELY: VEHICLE MODEL YEAR equals 9998.
U520	UNLIKELY: RESTRAINT SYSTEM/HELMET USE equals 98.
U530	UNLIKELY: any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 03, 05 or 07.
U590	UNLIKELY: CONDITION (IMPAIRMENT) AT TIME OF CRASH (NM14) equals 05 or 07.
U640	UNLIKELY: FIRST HARMFUL EVENT equals 99.
U680	UNLIKELY: MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) equals 999999997.
U681	UNLIKELY: METHOD OF ALCOHOL DETERMINATION BY POLICE equals 8.

U370	UNLIKELY: EXTENT OF DAMAGE equals 8 *if STATE NUMBER does not equal 48, 49, 53.*
U390	UNLIKELY: LIGHT CONDITION equals 8.
U410	UNLIKELY: DRIVER'S LICENSE STATE equals 98.
U420	UNLIKELY: SPECIAL USE equals 98.
U430	UNLIKELY: VEHICLE REMOVAL equals 8.
U440	UNLIKELY: VIOLATIONS CHARGED equals 97.
U450	UNLIKELY: REGISTRATON STATE equals 91.
U460	UNLIKELY: VEHICLE MODEL equals 997.
U470	UNLIKELY: BODY TYPE equals 98.
U480	UNLIKELY: VEHICLE MAKE equals 97.
U490	UNLIKELY: GVWR/GVCR equals 8 and VEHICLE MODEL YEAR is greater than 1980 and not equal to 9998 or 9999 and VEHICLE IDENTIFICATION NUMBER does not equal 0's, 8's or 9's.
U510	UNLIKELY: VEHICLE MODEL YEAR equals 9998.
U520	UNLIKELY: RESTRAINT SYSTEM/HELMET USE equals 98.
U530	UNLIKELY: any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 03, 05 or 07.
U590	UNLIKELY: CONDITION (IMPAIRMENT) AT TIME OF CRASH (NM14) equals 05 or 07.
U640	UNLIKELY: FIRST HARMFUL EVENT equals 99.
U680	UNLIKELY: MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) equals 999999997.
U681	UNLIKELY: METHOD OF ALCOHOL DETERMINATION BY POLICE equals 8.

ERROR CODE	ERROR TEST
<b>U682</b>	<b><i>UNLIKELY: CRITICAL EVENT: PRECRASH (EVENT) equals 08 for this vehicle and CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) does not equal 01 for this vehicle's driver.</i></b>
V010	MODEL YEAR should not be less than 1940.
V011	If VEHICLE MODEL YEAR is less than 1950, then VEHICLE IDENTIFICATION NUMBER must equal 0s.
V020	If VEHICLE TRAILING equals 1, then BODY TYPE should not equal 50-52, 55, 80-83, 88-91.
V031	If RELATED FACTORS-VEHICLE LEVEL equals 39, then BODY TYPE should not equal 01, 12, 13, 32, 33, 42, 50-52, 55, 58, 59, 65, 73, 80-83, 88-92.
V032	If RELATED FACTORS-VEHICLE LEVEL equals 40, then BODY TYPE should not equal 01, 12, 13, 32, 33, 42, 50-52, 55, 58, 59, 60-67, 71-73, 78, 80-83, 88-93.
V050	If RESTRAINT SYSTEM/ HELMET USE equals 05, 16, 17, 19, 29, then BODY TYPE must equal 80-83, 88-91.
V051	If BUS USE equals 01, then BODY TYPE should equal 21 or 50 or 55.
V052	If BUS USE equals 04, then BODY TYPE should equal 51.
V053	If BUS USE equals 05, then BODY TYPE should equal 12, 16, 21, 51, 55 or 58.
V054	If BUS USE equals 07, then BODY TYPE should equal 21, 22, 29, 50-59.
V055	If BUS USE equals 00, then BODY TYPE must not equal 50-59.
V056	If SPECIAL USE equals 02, then BUS USE should equal 01.
V057	If SPECIAL USE equals 03, then BUS USE should equal 04-07, 99.
V058	If EMERGENCY MOTOR VEHICLE USE equals 2-6, then SPECIAL USE should equal 04-08, 13.
<b>V059</b>	<b><i>If BUS USE equals 01, then SPECIAL USE must equal 02.</i></b>

ERROR CODE	ERROR TEST
V060	If SPECIAL USE equals 04, then REGISTRATION STATE should equal 94.
<b>V061</b>	<b><i>If BUS USE equals 04-07, then SPECIAL USE must equal 03.</i></b>
V070	If HM1 equals 2, then REGISTRATION STATE should not equal 92.
V090	If HM1 equals 2, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS should equal 06, 99.
V100	If HM1 equals 2, and RELATED FACTORS-DRIVER LEVEL does not equal 19, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 01, 02, 05.
V16P	If RELATED FACTORS-DRIVER LEVEL equals 88, then VEHICLE TRAILING must not equal 0, 9.
V170	If NUMBER OF OCCUPANTS is less than 97, and VEHICLE TRAILING equals 0, and BODY TYPE equals 01-05, 07-09, 14, 15, 17, 19, 94, 95, 97, then NUMBER OF OCCUPANTS should not be greater than 8.
V180	If NUMBER OF OCCUPANTS is less than 97, and VEHICLE TRAILING equals 0, and BODY TYPE equals 06, 11, then NUMBER OF OCCUPANTS should not be greater than 12.
V190	If NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 12, then NUMBER OF OCCUPANTS should not be greater than 15.
V200	If NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 80-83, 88, 89, then NUMBER OF OCCUPANTS should not be greater than 2.
V210	If NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 15, 16, 42, 73, then NUMBER OF OCCUPANTS should not be greater than 12.
V220	If NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 60-65, 71, 72, 79, then NUMBER OF OCCUPANTS should not be greater than 12.
V230	If NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 66, then NUMBER OF OCCUPANTS should not be greater than 5.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
V240	If NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 91, then NUMBER OF OCCUPANTS should not be greater than 2.
V250	If NUMBER OF OCCUPANTS is 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 90, then NUMBER OF OCCUPANTS should not be greater than 8.
V260	If NUMBER OF OCCUPANTS is, 01-96, and VEHICLE TRAILING equals 0, and BODY TYPE equals 99, then NUMBER OF OCCUPANTS should not be greater than 5.
V270	Possible error in VIN character types or number of characters.
V280	Possible error in VIN digit check.
V290	If BODY TYPE equals 90, then NUMBER OF OCCUPANTS should equal 01.
V300	Possible error in VIN Production Number.
V320	If BODY TYPE equals 50-52, 55, 58-66, 71-79 and SEATING POSITION does not equal 11,13, 98, then AIR BAG DEPLOYED should equal 00.
V330	If SCHOOL BUS RELATED equals 1, then BODY TYPE of at least one of the involved vehicles should equal 50 (School Bus) or SPECIAL USE for at least one involved vehicle should equal 02 - Vehicle Used as School Bus, and BUS USE for at least one vehicle should equal 01.
V340	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 01-05, 07-09, 14, 15, 17, 19, 97, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS should not be greater than 8.
V350	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 06, 11, 16, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS should not be greater than 12.
V360	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 12, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS should not be greater than 15.

**ERROR CODE    ERROR TEST**

V370	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 80-83, 88, 89, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS should not be greater than 02.
V380	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 42, 73, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS should not be greater than 12.
V390	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 60-65, 71, 72, 79, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS should not be greater than 12.
V400	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 66, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS should not be greater than 5.\
V410	If NUMBER OF OCCUPANTS is less than 01-96, and BODY TYPE equals 91, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS should not be greater than 2.
V420	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 90, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS should not be greater than 8.
V430	If NUMBER OF OCCUPANTS is 01-96, and BODY TYPE equals 98, 99, and VEHICLE TRAILING does NOT equal 0, then NUMBER OF OCCUPANTS should not be greater than 5.
V440	If BODY TYPE equals 50, then SCHOOL BUS RELATED should equal 1.
V46P	If VEHICLE CONFIGURATION equals 21, then BODY TYPE must equal 21, 50-52, 55, 58, 59.
V470	If VEHICLE CONFIGURATION equals 01, then CARGO BODY TYPE should be 01-05, 07, 12, 96-98.
V47P	If VEHICLE CONFIGURATION equals 21, then CARGO BODY TYPE must equal 22.
V502	If GVWR/GCWR equals 0, and HM1 equals 1, then VEHICLE CONFIGURATION and CARGO BODY TYPE must equal 00.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
V503	If GVWR/GCWR equals 1, then HM2 should equal 2, or VEHICLE CONFIGURATION should equal 20.
V504	If GVWR/GCWR equals 1, then BODY TYPE should equal 01-22, 28-39, 41-49.
V505	If GVWR/GCWR equals 9, then BODY TYPE should not equal 61-63, 66, 67.
V506	If BODY TYPE equals 60, then GVWR/GCWR should equal 2.
V507	If BODY TYPE equals 01-21, 28-30, 32-39, 45-49, then GVWR/GCWR should equal 0, 1.
V50P	If BODY TYPE equals 61, 62, 67, 71, and VEHICLE CONFIGURATION does not equal 04, then GVWR/GCWR must equal 2, 9. (See GVWR/GCWR Remarks on how to use PCVina to determine GVWR.)
V51P	If BODY TYPE equals 63, 66, 72, then GVWR/GCWR must equal 3. (See GVWR/GCWR Remarks on how to use PCVina to determine GVWR.)
V531	If BUS USE equals 01, 04-07, 98, then VEHICLE CONFIGURATION should equal 20, 21, and CARGO BODY TYPE should equal 22.
V532	If VEHICLE CONFIGURATION equals 01, 02, 04-08, 19, 21, then GVWR/GCWR should not equal 0 or 1.
V533	If CRASH TYPE equals 03, 08, 38, 40, 58 or 60, then ATTEMPTED AVOIDANCE MANEUVER must not equal 00 or 01.
V535	If ATTEMPTED AVOIDANCE MANEUVER equals 00, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.
V538	If JACKKNIFE equals 2, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 04, 05, 07-09 or 13 for this vehicle.
V540	If BODY TYPE equals 42, 65, 73, and HM1 equals 1, then GVWR/GCWR should equal 0.

ERROR CODE	ERROR TEST
V550	If REGISTRATION STATE equals 93, 94, then REGISTERED VEHICLE OWNER should equal 3, 4.
V560	If SPECIAL USE equals 04, then REGISTERED VEHICLE OWNER should equal 3, and REGISTRATION STATE should equal 94.
V56P	If VEHICLE CONFIGURATION equals 10, then BODY TYPE must equal 01-22, 28-49.
V570	If HM1 equals 2, then REGISTERED VEHICLE OWNER should not equal 0, 1, 2, 4.
V57P	If VEHICLE CONFIGURATION equals 05, then CARGO BODY TYPE must equal 12, 96, and BODY TYPE must equal 66.
V580	If HM1 equals 2, then REGISTERED VEHICLE OWNER should equal 3.
V58P	If VEHICLE CONFIGURATION equals 04, then BODY TYPE must not equal 66.
V590	If RELATED FACTORS-VEHICLE LEVEL equals 32, then REGISTERED VEHICLE OWNER should equal 1-3.
<b>V59Q</b>	<b><i>If ATTEMPTED AVOIDANCE MANEUVER equals 99, then DRIVER MANEUVERED TO AVOID should equal 00, 98 or 99.</i></b>
V592	If RELATED FACTORS-VEHICLE LEVEL equals 37, then REGISTRATION STATE should not equal 00, 92.
V593	If RELATED FACTORS-VEHICLE LEVEL equals 37, then REGISTERED VEHICLE OWNER should not equal 0.
V59P	If VEHICLE CONFIGURATION equals 06, then BODY TYPE must equal 66, and VEHICLE TRAILING must equal 1.
V600	If REGISTERED VEHICLE OWNER equals 9, then REGISTRATION STATE should equal 99.
V60P	If VEHICLE CONFIGURATION equals 07, then BODY TYPE must equal 66, and VEHICLE TRAILING must equal 2.
V61P	If VEHICLE CONFIGURATION equals 08, then BODY TYPE must equal 66, and VEHICLE TRAILING must equal 3.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
V620	If CRASH MONTH is between January and March, then the VEHICLE MODEL YEAR should NOT be greater than the CRASH YEAR unless it equals 9998 or 9999 (contact Coding Assistance).
V62P	If CARGO BODY TYPE equals 01-12, 97, 98, and VEHICLE IDENTIFICATION NUMBER does not equal Not Reported or Unknown, then GVWR/GCWR must equal 2, 3.
V630	If REGISTRATION STATE equals 00, 92, then REGISTERED VEHICLE OWNER should NOT equal 5.
V640	If VEHICLE CONFIGURATION does not equal 00, 99, then BODY TYPE should not equal 28, 30, 42, 45, 48, 49.
V64P	If BODY TYPE equals 50-59, 60-64, 66-72, 78, then GVWR/GCWR must not equal 0-1.
V65P	If GVWR/GCWR equals 2, 3, then VEHICLE CONFIGURATION must not equal 00 and CARGO BODY TYPE must not equal 00.
V660	If CARGO BODY TYPE does not equal 00, 99, then BODY TYPE should not equal 28, 30, 42, 45, 48, 49.
V670	If REGISTERED VEHICLE OWNER equals 1, 2, then REGISTRATION STATE should NOT equal 99.
V68P	If CARGO BODY TYPE equals 12, then VEHICLE TRAILING must equal 5.
V700	If ROLLOVER equals 2, then CRASH TYPE should equal 01-10, 14, 98 or 99 for this vehicle.
V74P	If UNIT TYPE equals 1, and ROLLOVER equals 1, 2, 9, or LOCATION OF ROLLOVER equals 1-7, 9, then at least one SEQUENCE OF EVENTS must equal 01 for this vehicle.
V750	If UNDERRIDE/OVERRIDE equals 1-3, then FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 12, 55.
V75P	If ROLLOVER is not blank, then LOCATION OF ROLLOVER must not be blank.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
V760	If UNDERRIDE/OVERRIDE equals 4-6, then FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 14, 45.
V76P	If ROLLOVER is blank, then LOCATION OF ROLLOVER must be blank.
V770	If UNDERRIDE/OVERRIDE equals 7, then at least one SEQUENCE OF EVENTS (for this vehicle) must equal 12, 55.
V77P	If ROLLOVER equals 1, 2, 9, then LOCATION OF ROLLOVER must equal 1-7, 9.
V780	If UNDERRIDE/OVERRIDE equals 8, then at least one SEQUENCE OF EVENTS (for this vehicle) must equal 14, 45.
V78P	If ROLLOVER equals 0, then LOCATION OF ROLLOVER must equal 0.
V790	If BODY TYPE equals 20, then VEHICLE CONFIGURATION should equal 00, and CARGO BODY TYPE should equal 00.
V79P	If ROLLOVER equals 2, and FIRST HARMFUL EVENT equals 01, then CRASH TYPE must equal 01-10, 14, 15 or 98 for the vehicle involved in the first harmful event.
V800	If BODY TYPE equals 21, 22, 28, 29, then VEHICLE CONFIGURATION should equal 00, 04, 10, 20, 21, 99, and CARGO BODY TYPE should equal 00, 01, 22, 99.
V810	If BODY TYPE equals 67, and VEHICLE TRAILING equals 1-4, then VEHICLE CONFIGURATION should equal 04, and CARGO BODY TYPE should equal 01, 03, 04, 09.
V840	If BODY TYPE equals 50-59, then VEHICLE CONFIGURATION should equal 21, and CARGO BODY TYPE should equal 22.
V850	If BODY TYPE equals 60, then VEHICLE CONFIGURATION should equal 01, 03, 04, and CARGO BODY TYPE should equal 01.
V860	If HIT-AND-RUN equals 0, and BODY TYPE equals 61-64, then VEHICLE CONFIGURATION should equal 01, 02, 04, and CARGO BODY TYPE should equal 01-10, 12, 96-98.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
V870	If BODY TYPE equals 65, then VEHICLE CONFIGURATION should equal 00, and CARGO BODY TYPE should equal 00.
V880	If HIT-AND-RUN equals 0, and BODY TYPE equals 66, then VEHICLE CONFIGURATION should equal 05-08,19, and CARGO BODY TYPE should equal 01-04, 06-12, 96-98.
V890	If BODY TYPE equals 71, 72, then VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 01-04, 08, 10, 96-98.
V900	If BODY TYPE equals 73, then VEHICLE CONFIGURATION should equal 00, and CARGO BODY TYPE should equal 00.
V910	If BODY TYPE equals 78, then VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 98.
V915	If BODY TYPE equals 67, and VEHICLE TRAILING equals 0, then VEHICLE CONFIGURATION should equal 01, and CARGO BODY TYPE should equal 97.
V920	If BODY TYPE equals 79, then VEHICLE CONFIGURATION should equal 99, and CARGO BODY TYPE should equal 99.
V922	If MAKE equals 98, 99, and MODEL equals____, then MODEL YEAR should equal____.
V930	If VEHICLE CONFIGURATION equals 00, or CARGO BODY TYPE equals 00, then BODY TYPE should not equal 50-64, 66-72, 78, 79.
V940	If HM1 equals 2, then VEHICLE CONFIGURATION should not equal 00, 99 and CARGO BODY TYPE should not equal 00, 99.
V941	If BODY TYPE equals 90 or 91, then VEHICLE LICENSE PLATE NUMBER should equal 0000000000.
V950	If vehicle MODEL YEAR is less than 1994, and SEATING POSITION equals 31, 33, 39, then RESTRAINT SYSTEM/HELMET USE should not equal 01, 03, and BODY TYPE should equal 12, 15, 16, 19-21.
V960	If REGISTRATION STATE equals 99, then REGISTERED VEHICLE OWNER should equal 5, 6, 9.

**ERROR CODE    ERROR TEST**

V961	If MAKE equals 98, 99, and MODEL equals____, then BODY should equal____.
V980	If BODY TYPE equals 50-52, 55, 58-64, 66, 67, 71, 72, 78, 93, or HM1 equals 2, then MOTOR CARRIER IDENTIFICATION NUMBER must not equal 00-000000000.
V981	If VEHICLE CONFIGURATION equals 00, then MOTOR CARRIER IDENTIFICATION NUMBER should equal 00-00000000.
V982	If MOTOR CARRIER IDENTIFICATION NUMBER does not equal 00-000000000, then VEHICLE CONFIGURATION should not equal 00.
V983	If VEHICLE TRAILING equals 3, then STATE should equal 04, 08, 16, 18, 20, 30-32, 38-41, 46, 49.
V984	If STATE does not equal 04, 08, 16, 18, 20, 30-32, 38-41, 46, 49, then VEHICLE TRAILING should not equal 3.
V985	If VEHICLE TRAILING equals 5, then VEHICLE CONFIGURATION should not equal 00, 10, 19-21.
V986	If VEHICLE TRAILING equals 3, then PSU should equal 29, 30, 31, 64, 73, 74, 75, 76, 77, 78, 94.
V990	If any SEQUENCE OF EVENTS equals 61, then CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE should not equal 00.
V991	If VEHICLE TRAILING equals 0, then VEHICLE CONFIGURATION must not equal 04, 06-08.
V992	If VEHICLE TRAILING equals 1, then VEHICLE CONFIGURATION must not equal 01, 02, 05, 07 or 08.
V993	If VEHICLE TRAILING equals 2, then VEHICLE CONFIGURATION must not equal 01, 02, 05, 06 or 08.
V994	If VEHICLE TRAILING equals 3, then VEHICLE CONFIGURATION must not equal 01, 02, 05-07.
V995	If VEHICLE TRAILING equals 4, then VEHICLE CONFIGURATION must not equal 01, 02, 05-08.

<b>ERROR CODE</b>	<b>ERROR TEST</b>
V997	If VEHICLE TRAILING equals 6, then VEHICLE CONFIGURATION must not equal 04, 06-08.
V998	If VEHICLE TRAILING equals 9, then VEHICLE CONFIGURATION must not equal 04-07 or 08.
VA00	If HM1 equals 1, then HM2, HM5 must equal 0, HM4 must equal 00 and HM3 must equal 0000.
VA10	If HM1 equals 2, then HM2, HM5 must not equal 0, HM4 must not equal 00 and HM3 must not equal 0000.
VA20	If any of HM2, HM5 equals 0, or HM4 equals 00 or HM3 equals 0000, then HM1 must equal 1.
VA30	If any of HM2, HM5 does not equal 0, or HM4 does not equal 00, or HM3 does not equal 0000, than HM1 must equal 2.
VA40	If HM5 equals 2, then HM3 should not equal 8888 or HM4 should not equal 88.
VA50	If HM3 equals 8888, and HM4 equals 88, then HM5 should not equal 2.
VA60	If HM3 does not equal 0000, 8888, or HM4 does not equal 00, 88, then HM2 should equal 2.
VA70	If GVWR/GCWR equals 1, and HM2 equals 2, then VEHICLE CONFIGURATION must equal 10.
VB60	If PRE-IMPACT STABILITY equals 0, then PRE-IMPACT LOCATION must equal 0.
VB70	If PRE-IMPACT STABILITY is not equal to 0, then PRE-IMPACT LOCATION must not equal 0.
VBA0	If PRE-IMPACT LOCATION equals 1, then PRE-IMPACT STABILITY should equal 1, 2 or 9.
VH06	If BODY TYPE equals 82, then RELATED FACTORS-VEHICLE LEVEL must not equal 30.
VH10	If PRE-IMPACT LOCATION equals 0, then ATTEMPTED AVOIDANCE MANEUVER must equal 00.

ERROR CODE	ERROR TEST
VH20	If ATTEMPTED AVOIDANCE MANEUVER equals 00, then PRE-IMPACT LOCATION must equal 0.
VH25	If UNIT TYPE equals 4, then REGISTERED VEHICLE OWNER should not equal 6, 9.
VH70	If UNIT TYPE equals 2-4, then elements V15, V24, V31 must all be left blank.
VH75	If UNIT TYPE equals 4, then VEHICLE CONFIGURATION should not equal 05, 20, 21, 10.
VH80	If UNIT TYPE equals 4, then CARGO BODY TYPE should not equal 06, 07, 11, 12, 22.
VH81	If any DAMAGED AREAS equals 15 or 99, then only that one values must be coded.
VH82	If EXTENT OF DAMAGE for this vehicle equals 2, 4, 6, then DAMAGED AREAS must not equal 15.
VH83	If the only harmful SEQUENCE OF EVENTS for this vehicle equals 04- <b>06</b> , then DAMAGED AREAS should equal 15.
VH84	If the only harmful SEQUENCE OF EVENTS for this vehicle equals 01-03, 16, 44, 51, 72, then DAMAGED AREAS should not equal 15.
VH85	If AREAS OF IMPACT-INITIAL CONTACT POINT equals 61-63, then DAMAGED AREAS should include at least one of the codes 07-11.
VH86	If AREAS OF IMPACT-INITIAL CONTACT POINT equals 81-83, then DAMAGED AREAS should include at least one of the codes 01-05, <b>or DAMAGED AREAS should equal 15.</b>
VH87	If HIT-AND-RUN equals 0, and AREAS OF IMPACT-INITIAL CONTACT POINT equals 01-14, then the corresponding code should be included in DAMAGED AREAS or DAMAGED AREAS should equal 15, <b>or DAMAGED AREAS should equal 15.</b>
VH88	<b>If UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49 or 60-79, then STRATUM should not equal 4.</b>

ERROR CODE	ERROR TEST
VH89	<i>If UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49, then STRATUM should not equal 3.</i>
VH90	<i>If UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49 or 60-79, then FINAL STRATUM must not equal 4.</i>
VH91	<i>If UNIT TYPE equals 1, and VEHICLE REMOVAL equals 2, and BODY TYPE equals 01-49, then FINAL STRATUM must not equal 3.</i>



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