SECTION SBC
SEAT BELT CONTROL SYSTEM

CONTENTS

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:0000000010323912

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the “SRS AIR BAG” and “SEAT BELT” of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see “SRS AIR BAG”.**
- **Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

Always observe the following items for preventing accidental activation.

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

Precautions Necessary for Steering Wheel Rotation After Battery Disconnection

INFOID:0000000010323913

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- **Before removing and installing any control units, first turn the ignition switch to the LOCK position, then disconnect both battery cables.**
- **After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.**
- **Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.**

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

OPERATION PROCEDURE

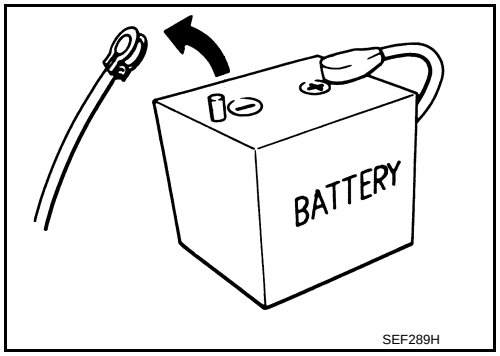
1. Connect both battery cables.
   NOTE:
   Supply power using jumper cables if battery is discharged.
2. Turn the ignition switch to ACC position.
   (At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.

5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT.

Precautions for Removing Battery Terminal

INFOID:0000000010323915

When disconnecting the battery terminal, pay attention to the following.
- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:



D4D engine	: 20 minutes	ZD30DDTi	: 60 seconds
HRA2DDT	: 12 minutes	ZD30DDTT	: 60 seconds
K9K engine	: 4 minutes		
M9R engine	: 4 minutes		
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		
YD25DDTi	: 2 minutes		

NOTE:
ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

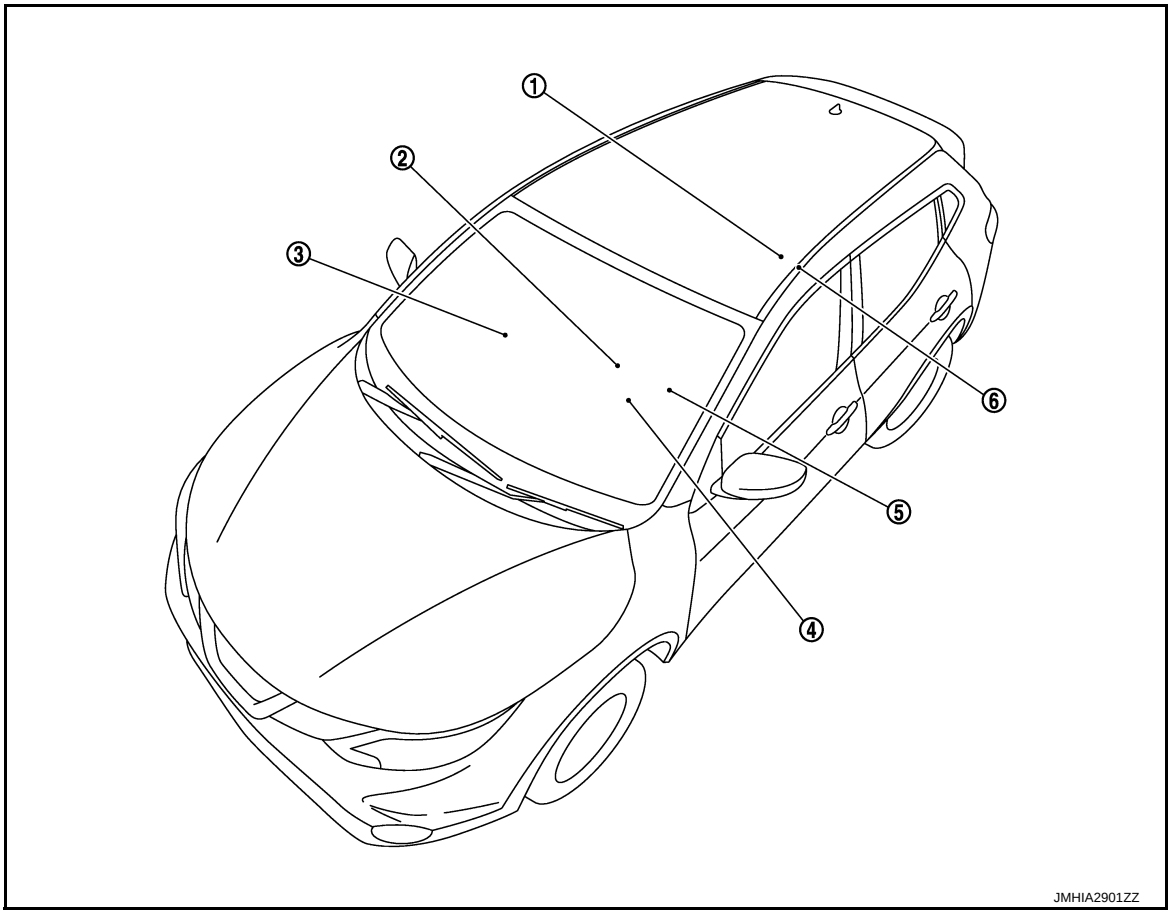
- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.
  NOTE:
  - Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
  - Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
  NOTE:
  If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.
- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
  NOTE:
  The removal of 12V battery may cause a DTC detection error.

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000010323897

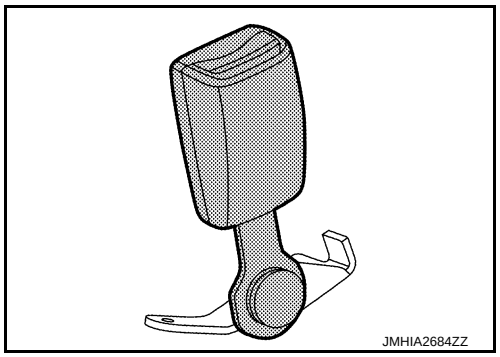


No.	Component	Function
①	Rear seat belt buckle switch (Center and RH)	Refer to SBC-5, "Seat Belt Buckle Switch".
②	Seat belt buckle switch (Driver side)	Refer to SBC-5, "Seat Belt Buckle Switch".
③	Combination meter	• Receives seat belt buckle switch signal from seat belt buckle switch (driver side) and air bag diagnosis sensor unit. • Turns the seat belt warning lamp ON when the seat belt is unfastened.
④	Air bag diagnosis sensor unit	Transmits seat belt buckle switch signal to Combination meter. Refer to SRC-6, "Component Parts Location" for detailed installation location.
⑤	Seat belt buckle switch (Passenger side)	Refer to SBC-5, "Seat Belt Buckle Switch".
⑥	Rear seat belt buckle switch (LH)	Refer to SBC-5, "Seat Belt Buckle Switch".

Seat Belt Buckle Switch

INFOID:0000000010323899

- Detects seat belt status and transmits seat belt buckle switch (driver side) signal to combination meter.
- Detects seat belt status and transmits seat belt buckle switch (passenger side and rear) signal to air bag diagnosis sensor unit.



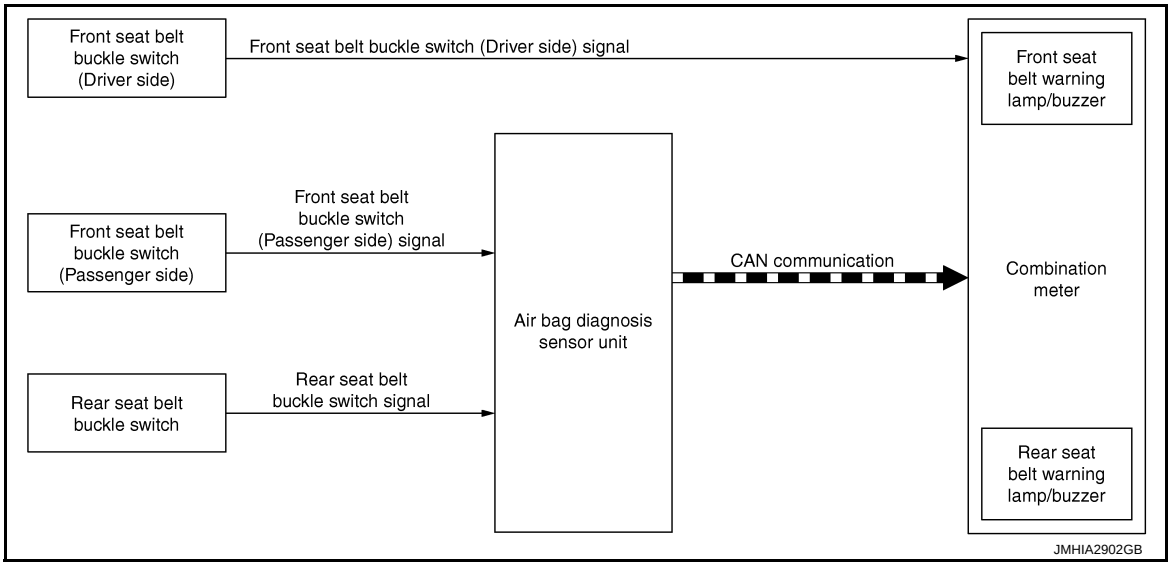
SYSTEM

SEAT BELT WARNING LAMP CONTROL SYSTEM

SEAT BELT WARNING LAMP CONTROL SYSTEM : System Description

INFOID:0000000010323900

SYSTEM DIAGRAM



SEAT BELT WARNING LAMP OPERATION

Seat belt warning lamp on combination meter turns ON during a period when ignition switch is turns ON until front seat belts are fastened. Seat belt warning lamp turns OFF when front seat belt is fastened. Seat belt warning lamp turns ON again when front seat belt is unfastened.

REAR SEAT BELT WARNING LAMP OPEATION

Seat belt warning is displayed on information display for approximately 35 seconds when the following conditions.

- Ignition switch is ON and engine starts running.
- Rear seat belt buckle switch is turned ON (rear seat belt is not fastened) and vehicle speed is 15km/h (9.3 MPH) or more.

Seat belt warning is canceled when the following conditions.

- Ignition switch is turned OFF.
- Approximately 35 seconds are passed since rear seat belt warning is displayed.

SEAT BELT WARNING CHIME OPERATION

Front seat belt warning chime sounds for approximately 90 seconds when the vehicle speed is approximately 15 km/h (9.3 MPH) or more while front seat belts are not fastened. Front seat belt warning chime stops when front seat belt is fastened.

Rear seat belt warning chime sounds for approximately 50ms after rear seat belt warning is displayed.

WIRING DIAGRAM

SEAT BELT WARNING LAMP CONTROL SYSTEM

Wiring Diagram

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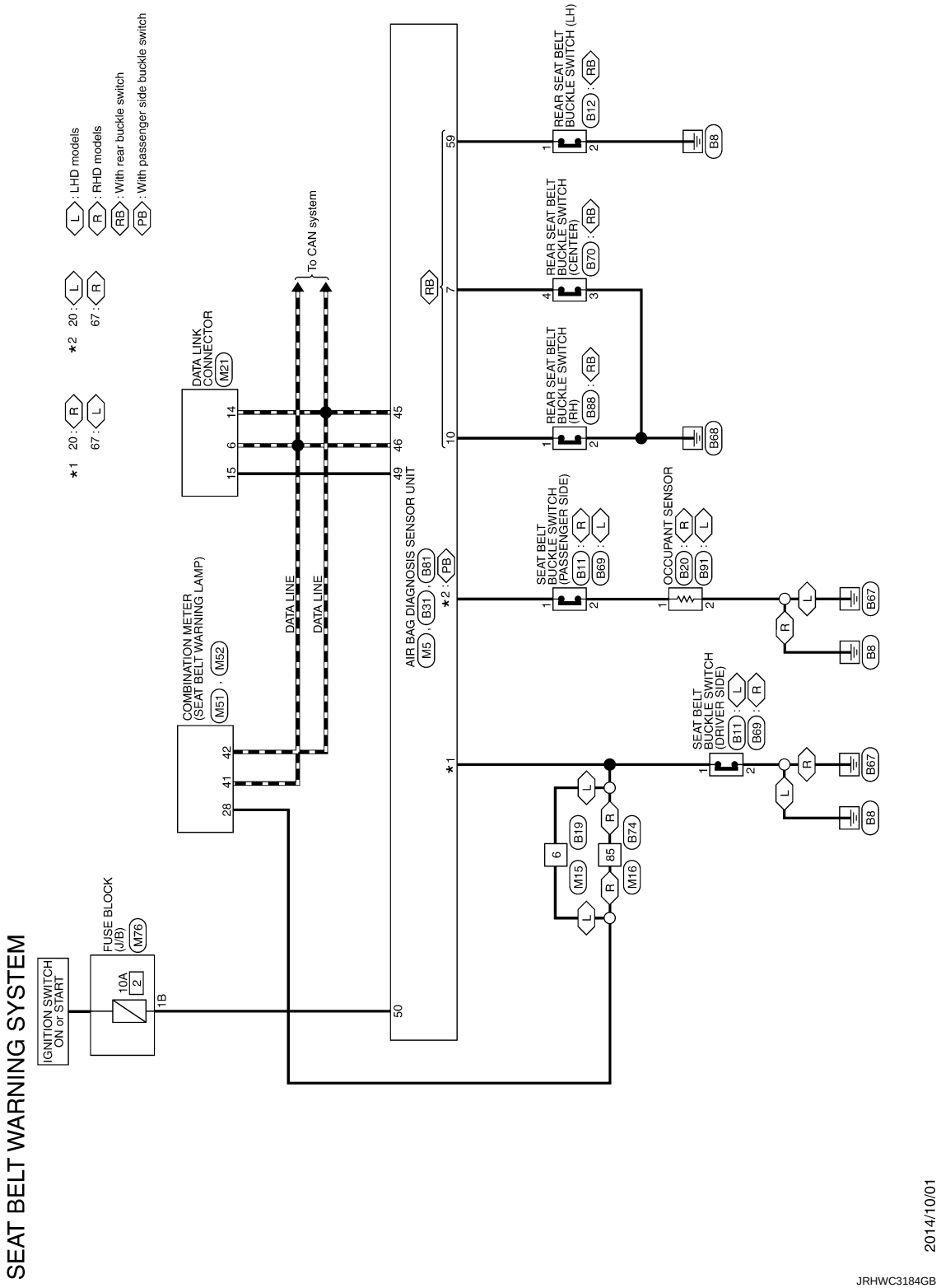
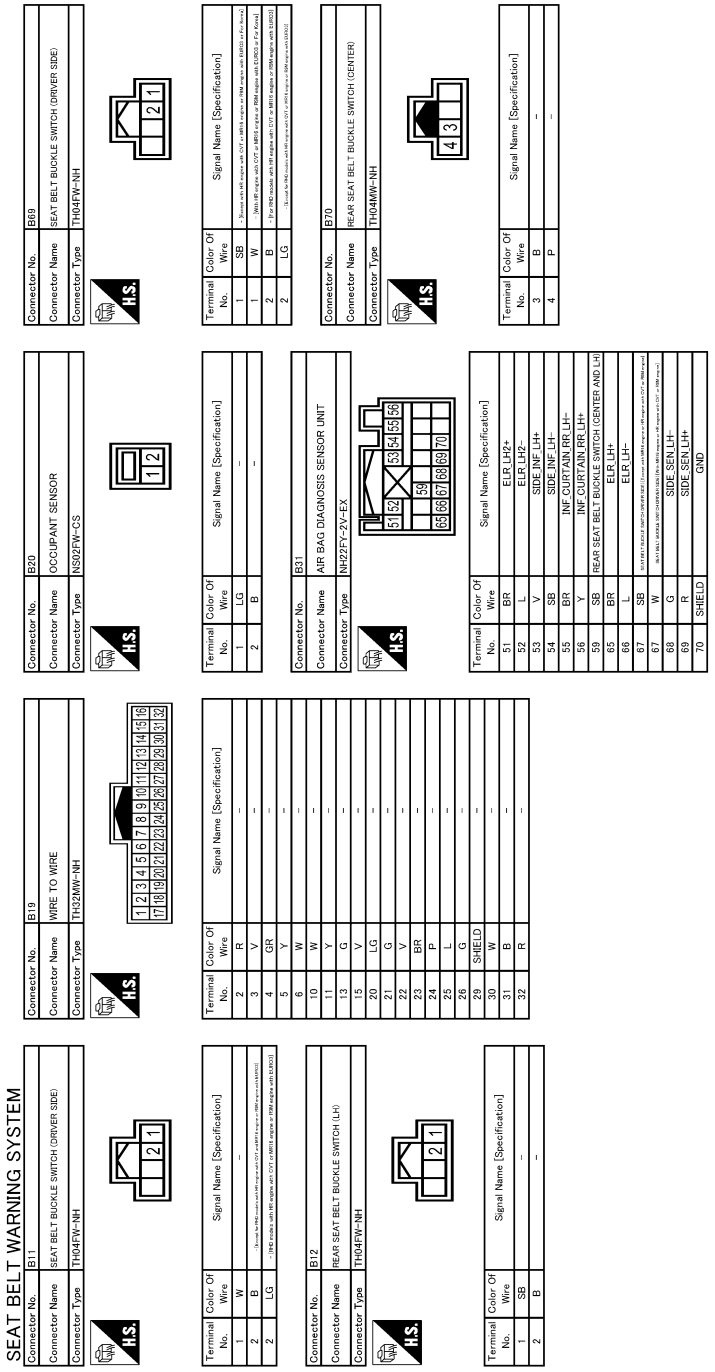


SEAT BELT WARNING SYSTEM



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SEAT BELT WARNING SYSTEM

Connector No.	B74
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

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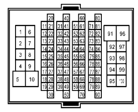

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	–
2	L	–
3	LG	–
4	P	–
9	SB	–
20	G	– [With gasoline engine]
20	L	– [With diesel engine]
21	B	–
24	G	– [With diesel engine]
24	R	– [With MR16 engine]
25	BR	–
55	LG	–
66	GR	–
74	R	–
79	V	–
84	L	–
85	W	–
89	BG	– [Except with HR engine with CVT or MR16 engine or R9M engine with EURO3 or For Korea]
89	W	– [With HR engine with CVT or MR16 engine or R9M engine with EURO3 or For Korea]
90	BR	–
93	Y	–
94	P	–
98	L	–
99	LG	–
100	GR	– [With diesel engine]
100	R	– [With HR engine]
100	W	– [With MR16 engine]

Connector No.	B81
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH22FY-1V-EX

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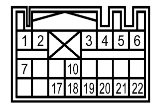

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	ELR_RH2+
2	L	ELR_RH2–
3	L	SIDE_INF_RH+
4	P	SIDE_INF_RH–
5	BR	INF_CURTAIN_RR_RH–
6	Y	INF_CURTAIN_RR_RH+
7	P	REAR SEAT BELT BUCKLE SWITCH (CENTER)
10	GR	REAR SEAT BELT BUCKLE SWITCH (RH)
17	SHIELD	GND
18	R	SIDE_SEN_RH+
19	G	SIDE_SEN_RH–
20	SB	SEAT BELT BUCKLE SWITCH (FRONT RH) [Except with HR engine with CVT or MR16 engine or R9M engine with EURO3 or For Korea]
20	W	SEAT BELT BUCKLE SWITCH (FRONT RH) [With HR engine with CVT or MR16 engine or R9M engine with EURO3 or For Korea]
21	L	ELR_RH–
22	BR	ELR_RH+

Connector No.	B88
Connector Name	REAR SEAT BELT BUCKLE SWITCH (RH)
Connector Type	TH04FW-NH

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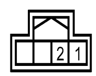

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	–
2	B	–

Connector No.	B91
Connector Name	OCCUPANT SENSOR
Connector Type	NS02FW-CS

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Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	–
2	B	–

Connector No.	M5
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH28FY-EX

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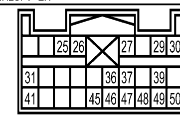

Terminal No.	Color Of Wire	Signal Name [Specification]
25	SB	INFLATOR_AS–
26	V	INFLATOR_AS+
27	B	GND
29	G	INFLATOR_DR–
30	Y	INFLATOR_DR+
31	P	ECZS–
36	BG	CUT_OFF_SW(DEACT)
37	R	CUT_OFF_SW(ACT)
39	SHIELD	GND
41	L	ECZS+
45	P	CAN–L
46	L	CAN–H
47	GR	TELLTALE_OFF
48	W	TELLTALE_ON
49	BG	ACL [For curtain air bag module and HR engine without CVT]
49	BR	ACL [Except for curtain air bag module and HR engine without CVT]
50	R	IGN

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

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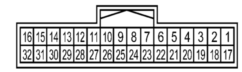

Terminal No.	Color Of Wire	Signal Name [Specification]
2	SB	–
3	V	–
4	GR	–
5	BR	–
6	W	–
10	R	–
11	L	–
13	LG	–
15	V	–
20	BG	–
21	BG	–
22	GR	–
23	GR	–
24	P	–
25	L	–
26	G	–
29	SHIELD	–
30	W	–
31	B	–
32	R	–

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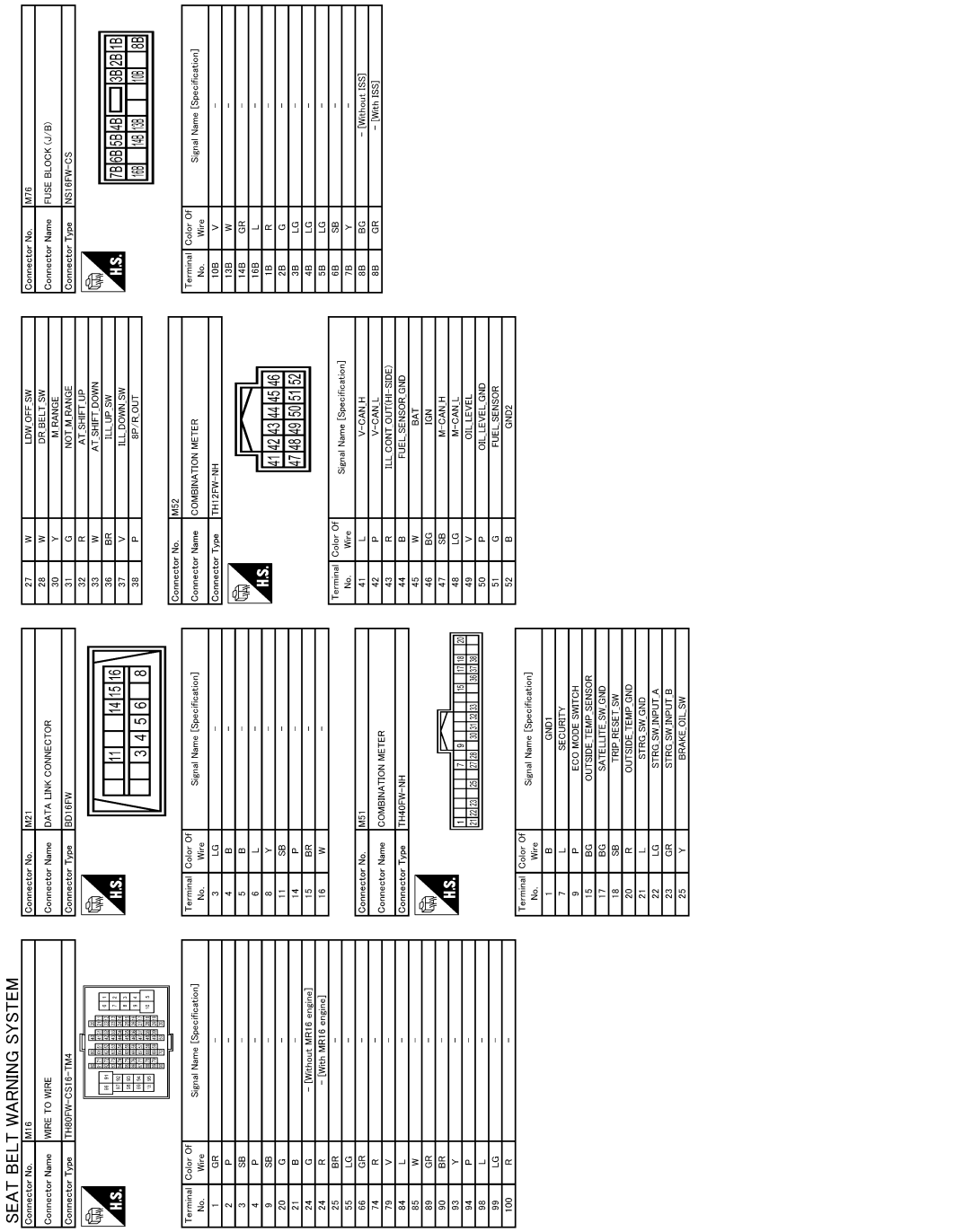
A B C D E F G SBC I J K L M N O P



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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

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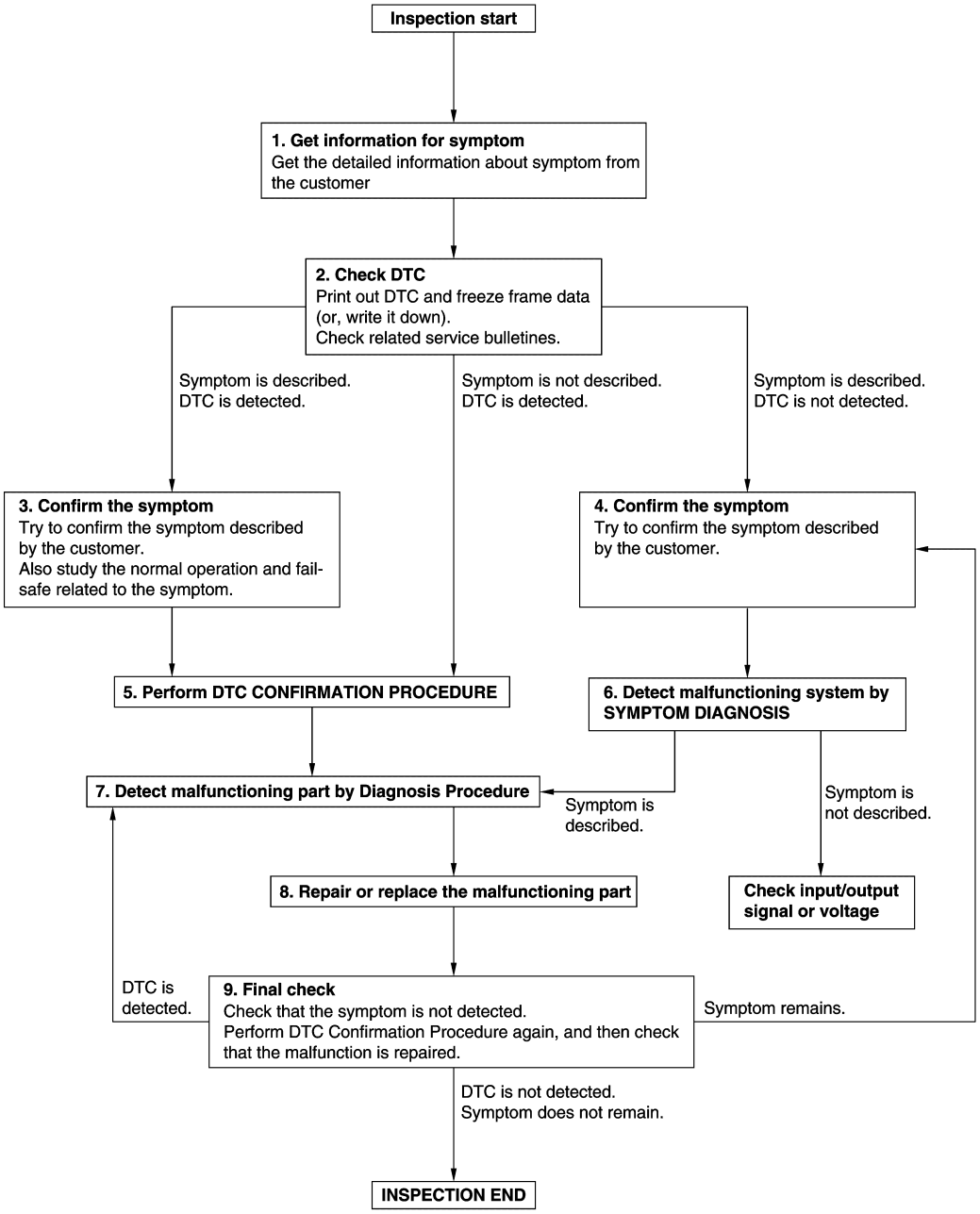
OVERALL SEQUENCE



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DETAILED FLOW

1.GET INFORMATION FOR SYMPTOM

1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2.CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is detected.

- Record DTC and freeze frame data (Print them out using CONSULT.)
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.

3. Check related service bulletins for information.

Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.
Symptom is described, DTC is not detected>>GO TO 4.
Symptom is not described, DTC is detected>>GO TO 5.

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.
Also study the normal operation and fail-safe related to the symptom.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time.
If two or more DTCs are detected, refer to DTC INSPECTION PRIORITY CHART, and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.
  If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.
NO >> Check according to GI-44, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

Is the symptom described?

YES >> GO TO 7.
NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

7.DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.
NO >> Check according to GI-44, "Intermittent Incident".

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement.
3. Check DTC. If DTC is detected, erase it.

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.
When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.
YES-2 >> Symptom remains: GO TO 4.
NO >> Before returning the vehicle to the customer, always erase DTC.

DTC/CIRCUIT DIAGNOSIS

SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Description

INFOID:0000000010500922

- Detects whether or not the seat belt is fastened when the ignition switch turns ON. If the seat belt is not fastened, illuminates the seat belt warning lamp on the combination meter.
- The seat belt buckle switch is installed in the seat belt buckle.

Diagnosis Procedure

INFOID:0000000010500924

1.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Check seat belt buckle switch (driver side).
Refer to SBC-14, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace seat belt buckle (driver side). Refer to SB-8, "FRONT SEAT BELT BUCKLE : Removal and Installation".

2.CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

1. Disconnect seat belt buckle switch (driver side) connector.
2. Check continuity between seat belt buckle switch (driver side) and ground.

LHD models

Seat belt buckle switch (driver side)		Ground	Continuity
Connector	Terminal		
B11	2		Existed

RHD models

Seat belt buckle switch (driver side)		Ground	Continuity
Connector	Terminal		
B69	2		Existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Repair or replace harness.

Component Inspection

INFOID:0000000010500925

1.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

1. Turn ignition switch OFF.
2. Disconnect seat belt buckle switch connector.
3. Check continuity of seat belt buckle (driver side).

Seat belt buckle switch (driver side)		Condition	Continuity
Terminal			
1	2	When driver side seat belt is not fastened	Existed
		When driver side seat belt is fastened	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat belt buckle (driver side). Refer to SB-8, "FRONT SEAT BELT BUCKLE : Removal and Installation".

SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

Description

INFOID:0000000010500926

- Detects whether or not the seat belt is fastened when the ignition switch turns ON. If the seat belt switch is not fastened, illuminates the seat belt warning lamp on the combination meter.
- The seat belt buckle switch is installed in the seat belt buckle.

Diagnosis Procedure

INFOID:0000000010500928

1.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

Check seat belt buckle switch (passenger side).
Refer to SBC-16, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace seat belt buckle (passenger side). Refer to SB-8, "FRONT SEAT BELT BUCKLE : Removal and Installation".

2.CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT1

1. Disconnect seat belt buckle switch (passenger side) connector and occupant sensor connector.
2. Check continuity between seat belt buckle switch (passenger side) and occupant sensor.

LHD models

Seat belt buckle switch (passenger side)		Occupant sensor		Continuity
Connector	Terminal	Connector	Terminal	
B69	2	B91	1	Existed

RHD models

Seat belt buckle switch (passenger side)		Occupant sensor		Continuity
Connector	Terminal	Connector	Terminal	
B11	2	B20	1	Existed

3. Check continuity between seat belt buckle switch (passenger side) and ground.

LHD models

Seat belt buckle switch (passenger side)		Ground	Continuity
Connector	Terminal		
B69	2		Not existed

RHD models

Seat belt buckle switch (passenger side)		Ground	Continuity
Connector	Terminal		
B11	2		Not existed

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT2

Check continuity between occupant sensor and ground.

LHD models

Occupant sensor		Ground	Continuity
Connector	Terminal		
B91	2		Existed

RHD models

Occupant sensor		Ground	Continuity
Connector	Terminal		
B20	2		Existed

Is the inspection result normal?

YES >> Replace seat cushion trim. Refer to SE-28, "Removal and Installation".
NO >> Repair or replace harness.

Component Inspection

INFOID:0000000010500929

1. CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

1. Turn ignition switch OFF.
2. Disconnect seat belt buckle switch connector.
3. Check continuity of seat belt buckle (passenger side).

Seat belt buckle switch (passenger side)		Condition	Continuity
Terminal			
1	2	When driver side seat belt is not fastened	Existed
		When driver side seat belt is fastened	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat belt buckle (passenger side). Refer to SB-8, "FRONT SEAT BELT BUCKLE : Removal and Installation".

REAR SEAT BELT BUCKLE SWITCH

Description

INFOID:0000000010500930

- Detects if the seat belt is fastened or unfastened.
- Warning lamp turns OFF if the seat belt is fastened.

Diagnosis Procedure

INFOID:0000000010500931

1.CHECK REAR SEAT BELT BUCKLE SWITCH

Check rear seat belt buckle switch.
Refer to SBC-17, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace rear seat belt buckle. Refer to SB-12, "SEAT BELT BUCKLE : Removal and Installation".

2.CHECK REAR SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

1. Disconnect rear seat belt buckle switch connector.
2. Check the continuity between rear seat belt buckle switch harness connector and ground.

Rear seat belt buckle switch			Ground	Continuity
Connector		Terminal		
LH	B12	2	Ground	Existed
Center	B70	3		
RH	B88	2		

Is the inspection result normal?

YES >> INSPECTION END
NO >> Repair or replace harness.

Component Inspection

INFOID:0000000010500932

1.CHECK REAR SEAT BELT BUCKLE SWITCH

Check continuity between rear seat belt buckle switch connector.

Rear seat belt buckle switch				Condition	Continuity
Connector		Terminal			
LH	B12	1	2	Rear seat belt (LH) is unfastened	Existed
				Rear seat belt (LH) is fastened	Not existed
Center	B70	3	4	Rear seat belt (center) is unfastened	Existed
				Rear seat belt (center) is fastened	Not existed
RH	B88	1	2	Rear seat belt (RH) is unfastened	Existed
				Rear seat belt (RH) is fastened	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace rear seat belt buckle. Refer to SB-12, "SEAT BELT BUCKLE : Removal and Installation".

SYMPTOM DIAGNOSIS

SEAT BELT WARNING LAMP DOES NOT TURN ON

Diagnosis Procedure

INFOID:0000000010431554

1. CHECK DTC OF “AIR BAG DIAGNOSIS SENSOR UNIT”

Check DTC in “Self Diagnosis Result” “Air bag diagnosis sensor unit” using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to SRC-19, "DTC Index".
NO >> GO TO 2

2. CHECK DTC OF “COMBINATION METER”

Check DTC in “Self Diagnosis Result” “Air bag diagnosis sensor unit” using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to MWI-40, "DTC Index".
NO >> GO TO 3

3. CHECK COMBINATION METER POWER SUPPLY AND GROUND CIRCUIT

Check combination meter power supply and ground circuit. Refer to MWI-66, "COMBINATION METER : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4
NO >> Repair or replace the malfunctioning parts.

4. CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 5
NO-1 >> damage: Replace malfunctioning parts.
NO-2 >> disconnection or looseness: Securely lock the connector.

5. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES-1 >> GO TO 6. (driver side)
YES-2 >> GO TO 7. (passenger side)
NO >> Replace malfunctioning parts.

6. CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Check the seat belt buckle switch. Refer to SBC-14, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 8
NO >> Repair or replace the malfunctioning parts.

7. CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

Check the seat belt buckle switch. Refer to SBC-15, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 8
NO >> Repair or replace the malfunctioning parts.

8. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit.
2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 9

9. REPLACE COMBINATION METER

1. Replace combination meter. Refer to MWI-86, "Removal and Installation".
2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END
NO >> GO TO 10

10. CHECK INTERMITTENT INCIDENT

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END

SEAT BELT WARNING LAMP DOES NOT TURN OFF

Diagnosis Procedure

INFOID:0000000010431555

1.CHECK DTC OF “AIR BAG DIAGNOSIS SENSOR UNIT”

Check DTC in “Self Diagnosis Result” “Air bag diagnosis sensor unit” using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to SRC-19, "DTC Index".
NO >> GO TO 2.

2.CHECK DTC OF “COMBINATION METER”

Check DTC in “Self Diagnosis Result” “Air bag diagnosis sensor unit” using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to MWI-40, "DTC Index".
NO >> GO TO 3

3.CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 4.
NO-1 >> damage: Replace malfunctioning parts.
NO-2 >> disconnection or looseness: Securely lock the connector.

4.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES-1 >> GO TO 5. (driver side)
YES-2 >> GO TO 6. (passenger side)
NO >> Replace malfunctioning parts.

5.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Check the seat belt buckle switch. Refer to SBC-14, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 7
NO >> Repair or replace the malfunctioning parts.

6.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

Check the seat belt buckle switch. Refer to SBC-15, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 7
NO >> Repair or replace the malfunctioning parts.

7.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit.

Is the inspection result normal?

YES >> INSPECTION END
NO >> GO TO 8.

8.REPLACE COMBINATION METER

1. Replace combination meter. Refer to MWI-86, "Removal and Installation".
2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END
NO >> GO TO 9.

9.INTERMITTENT INCIDENT

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END

REAR SEAT BELT WARNING LAMP DOES NOT ILLUMINATE

Diagnosis Procedure

INFOID:0000000010431972

1.CHECK DTC OF “AIR BAG DIAGNOSIS SENSOR UNIT”

Check DTC in “Self Diagnosis Result” “Air bag diagnosis sensor unit” using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to SRC-19, "DTC Index".
NO >> GO TO 2.

2.CHECK DTC OF “COMBINATION METER”

Check DTC in “Self Diagnosis Result” “Air bag diagnosis sensor unit” using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to MWI-40, "DTC Index".
NO >> GO TO 3

3.CHECK COMBINATION METER POWER SUPPLY AND GROUND CIRCUIT

Check combination meter power supply and ground circuit. Refer to MWI-66, "COMBINATION METER : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 5.
NO-1 >> damage: Replace malfunctioning parts.
NO-2 >> disconnection or looseness: Securely lock the connector.

5.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace malfunctioning parts.

6.CHECK REAR SEAT BELT BUCKLE SWITCH

Check the applicable rear seat belt buckle switch. Refer to SBC-17, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace the applicable rear seat belt buckle.

7.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit.
2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END
NO >> GO TO 8.

8.REPLACE COMBINATION METER

1. Replace combination meter. Refer to MWI-86, "Removal and Installation".
2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END
NO >> GO TO 9.

9.CHECK INTERMITTENT INCIDENT

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END

REAR SEAT BELT WARNING LAMP DOES NOT TURN OFF

Diagnosis Procedure

INFOID:0000000010431974

1.CHECK DTC OF “AIR BAG DIAGNOSIS SENSOR UNIT”

Check DTC in “Self Diagnosis Result” “Air bag diagnosis sensor unit” using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to SRC-19, "DTC Index".
NO >> GO TO 2.

2.CHECK DTC OF “COMBINATION METER”

Check DTC in “Self Diagnosis Result” “Air bag diagnosis sensor unit” using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to MWI-40, "DTC Index".
NO >> GO TO 3

3.CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 4.
NO-1 >> damage: Replace malfunctioning parts.
NO-2 >> disconnection or looseness: Securely lock the connector.

4.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace malfunctioning parts.

5.CHECK REAR SEAT BELT BUCKLE SWITCH

Check the applicable rear seat belt buckle switch. Refer to SBC-17, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace the applicable rear seat belt buckle.

6.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit.

Is the inspection result normal?

YES >> INSPECTION END
NO >> GO TO 7.

7.REPLACE COMBINATION METER

1. Replace combination meter. Refer to MWI-86, "Removal and Installation".
2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END
NO >> GO TO 8.

8.INTERMITTENT INCIDENT

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END