



W.E.T. AUTOMOTIVE SYSTEMS Ltd.

IMPLEMENTATION GUIDELINES FOR AIAG (ASC X12) EDI CONVENTIONS
PRODUCTION RELEASE TRANSACTION SET (830)

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ASC X12
VERSION/RELEASE 004010
(Prepared October 1999)

W.E.T. AUTOMOTIVE
830 / 4010 IMPLEMENTATION GUIDELINES FOR EDI CONVENTIONS

830 PLANNING SCHEDULE WITH RELEASE CAPABILITY

This standard contains the format and establishes the data contents of the Planning Schedule With Release Capability Transaction Set (830) for use within the context of an Electronic Data Interchange (EDI) also known as Electronic Commerce(EC) environment. The transaction set can be used to provide for customary and established business practice relative to the transfer of forecasting/material release information between organizations.

The Planning Schedule Transaction may be used in various ways or in combination of ways, such as;

- (1) A simple forecast;
- (2) A forecast with the buyer's authorization for the seller to commit to resources, such as labor or materials;
- (3) A forecast that is also used as an order release mechanism, containing such elements as resource authorizations, period-to-date cumulative quantities, and specific ship/delivery patterns for requirements that have been represented in "buckets", such as weekly, monthly, or quarterly.

The order release forecast may also contain data related to purchase orders, as required, because the order release capability eliminates the need for discrete generation of purchase orders.

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HEADER SEGMENT DESCRIPTION TABLE

<u>SEGMENT</u>	<u>REQD</u>	<u>DESCRIPTION</u>	
ST	M	TRANSACTION SET HEADER	
BFR	M	BEGINNING SEGMENT FOR PLANNING SCHEDULE	
NTE	F	NOTE/SPECIAL INSTRUCTION	NOT USED
CUR	O	CURRENCY	NOT USED
REF	O	REFERENCE IDENTIFICATION	NOT USED
PER	O	ADMINISTRATIVE COMMUNICATIONS CONTACT	NOT USED
TAX	O	TAX REFERENCE	NOT USED
FOB	O	F.O.B. RELATED INSTRUCTIONS	NOT USED
N1	O	NAME	
N2	O	ADDITIONAL NAME INFORMATION	NOT USED
N3	O	ADDRESS INFORMATION	
N4	O	GEOGRAPHIC LOCATION	
REF	O	REFERENCE IDENTIFICATION	NOT USED
PER	O	ADMINISTRATIVE COMMUNICATIONS CONTACT	
FOB	O	F.O.B. RELATED INFORMATION	NOT USED
CTP	O	PRICING INFORMATION	NOT USED
SSS	O	SPECIAL SERVICES	NOT USED
CSH	O	HEADER SALE CONDITION	NOT USED
ITD	O	TERMS OF SALE/DEFERRED TERMS OF SALE	NOT USED
DTM	O	DATE/TIME REFERENCE	NOT USED
PID	O	PRODUCT/ITEM DESCRIPTION	NOT USED
MEA	O	MEASUREMENTS	NOT USED
PWK	O	PAPERWORK	NOT USED
PKG	O	PARKING, PACKAGING, LOADING	NOT USED
TD1	O	CARRIER DETAILS (QUANTITY AND WEIGHT)	NOT USED
TD5	O	CARRIER DETAILS (ROUTING SEQUENCE/TRANSIT TIME)	NOT USED
TD3	O	CARRIER DETAILS (EQUIPMENT)	NOT USED
TD4	O	CARRIER DETAILS (SPECIAL HANDLING, OR HAZARDOUS)	NOT USED
MAN	O	MARKS AND NUMBERS	NOT USED

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SEGMENT: **ST - TRANSACTION SET HEADER**

LEVEL: Heading

MAX USAGE/LOOPS: 1/None

PURPOSE: Indicate the beginning of a transaction set and to assign a control number.

GENERAL INFORMATION: The Transaction Set Control Number (ST02) in this header must match the Transaction Set Control Number (SE02) in the Transaction Set Trailer (SE) segment.

EXAMPLE: ST*830*0001 N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
ST01	143	Transaction Set Id Code	M ID 03/03	Use '830' for Material Release
ST02	239	Transaction Set Control	M AN 04/09	A unique control number (same as SE02)

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SEGMENT: **BFR - BEGINNING SEGMENT FOR PLANNING SCHEDULES**

LEVEL: Header

MAX USAGE/LOOPS: 1/None

PURPOSE: Indicate the beginning of a Planning Schedule Transaction Set and related forecast dates.

GENERAL INFORMATION: Element BFR04 indicates planning schedule is shipment based (SH) or delivery based (DL).

EXAMPLES: BFR*05**994-5*DL*A*990308*990614*990308 N/L Delivery Based

<u>ELEM_ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
BFR01	353	Transaction Set Purpose	M ID 02/02	'05' = Replace
BFR02	127	Forecast Order Number	X AN 01/30	<u>not used</u>
BFR03	328	Schedule Number	X AN 01/30	Document Number
BFR04	675	Forcast Type Qualifier	M ID 02/02	'DL' = Delivery Based 'SH' = Shipment Based
BFR05	676	Schedule Quantity Qualifier	M ID 01/01	'A' = Actual Discrete Quantities
BFR06	373	Schedule Start Date	M DT 06/06	Format (CCYYMMDD)
BFR07	373	Schedule End Date	M DT 06/06	Format (CCYYMMDD)
BFR08	373	Schedule Generation Date	M DT 06/06	Format (CCYYMMDD)
BFR09	373	Fordcast Updated Date	O DT 06/06	<u>not used</u>
BFR10	367	Contract Number	O AN 01/30	<u>not used</u>
BFR11	324	Purchase Order Number	O AN 01/22	<u>not used</u>

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SEGMENT: **N1 - NAME**

LEVEL: Header

MAX USAGE/LOOPS: 1/20

PURPOSE: Identify the party by type of organization, name, and code.

GENERAL

INFORMATION: The N1 loop in the heading area is used to identify the release issuer and the supplier being released to.

EXAMPLES:	N1*MI*W.E.T*1*247791601	N/L
	N1*ST*W.E.T*92*368	N/L
	N1*SU*ABC COMPANY*92*123456	N/L
	N1*SF*ABC COMPANY*1*987654321	N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
N101	98	Entity Identifier Code	M ID 02/02	MI = Material Release Issuer ST = Ship to location SF = Ship from location SU = Supplier Ref. Num.
N102	93	Organization Name	X AN 01/35	
N103	66	Identification Code Qualifier	X ID 01/02	"92" = Assigned by buyer "1" = DUNS Number
N104	67	Identification Code	X AN 02/15	see note

NOTE: "SU" = Your Supplier Code defined by W.E.T. Automotive (6 numeric digits)

W.E.T. Automotive Ship to Locations (N104 ST Values): N104 Ship to Location

250	Del Rio, Texas
210	Windsor, Canada

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SEGMENT: **N3 - Address Information**

LEVEL: Header

MAX USAGE/LOOPS: 2

PURPOSE: To specify the location of the named party.

EXAMPLES: N3*9474 TWIN OAKS DR.

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
N301	166	Address	M ID 01/35	
N302	166	Address	X AN 01/35	

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SEGMENT: **N4 - GEOGRAPHIC LOCATION**

LEVEL: Header

MAX USAGE/LOOPS: 1

PURPOSE: To specify the geographic place of the named party.

EXAMPLE: N4*WINDSOR*ON*N8N5B8 N/L

<u>ELEM_ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
N401	019	City Name	M AN	02/19
N402	156	State or Province Code	M ID	02/02
N403	116	Postal Code	M ID	05/09
N404	26	Country Code	N	
N405	309	Location Qualifier	N	
N406	310	Location Ident.	N	

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SEGMENT: **PER - ADMINISTRATIVE COMMUNICATIONS CONTACT**

LEVEL: Header

MAX USAGE/LOOP: 3/N1

PURPOSE: Identify a person or office to whom administrative communications should be directed.

GENERAL INFORMATION: This segment is used to convey the name and telephone number of the person responsible for this part at the plant named in the header N1 ST segmant.

EXAMPLE: PER*BD*MATERIALS DEPARTMENT*TE*5197351818 N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
PER01	366	Contact Function Code	M ID 02/02	"BD" - Buyers Department
PER02	93	Name (Free-Format)	O AN 01/35	Name of contact person
PER03	365	Communication Number Qualifier	X ID 02/02	"TE" - Telephone number
PER04	364	Communication Number	X AN 01/21	Telephone #

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DETAIL SEGMENT DESCRIPTION TABLE

SEGMENT	REQD	DESCRIPTION	
LIN	M	ITEM IDENTIFICATION	
UIT	O	UNIT DETAIL	
DTM	O	DATE/TIME REFERENCE	NOT USED
CUR	O	CURRENCY	NOT USED
PO3	O	ADDITIONAL ITEM DETAIL	NOT USED
CTP	O	PRICING INFORMATION	NOT USED
PID	O	PRODUCT/ITEM DESCRIPTION	
MEA	O	MEASUREMENTS	NOT USED
PWK	O	PAPERWORK	NOT USED
PKG	O	PARKING, PACKAGING, LOADING	NOT USED
PO4	O	ITEM PHYSICAL MARKINGS	NOT USED
PRS	O	PART RELEASE STATUS	NOT USED
REF	O	REFERENCE IDENTIFICATION	
PER	O	ADMINISTRATIVE COMMUNICATIONS CONTACT	NOT USED
SAC	O	SERVICE, PROMOTION, ALLOWANCE OR CHARGE INFO.	NOT USED
ITD	O	TERMS OF SALE/DEFERRED TERMS OF SALE	NOT USED
TAX	O	TAX REFERENCE	NOT USED
FOB	O	F.O.B. RELATED INSTRUCTIONS	NOT USED
LDT	O	LEAD TIME	NOT USED
QTY	O	QUANTITY	NOT USED
ATH	O	RESOURCE AUTHORIZATION	
TD1	O	CARRIER DETAILS (QUANTITY AND WEIGHT)	NOT USED
TD5	O	CARRIER DETAILS (ROUTING SEQUENCE/TRANSIT TIME)	NOT USED
TD3	O	CARRIER DETAILS (EQUIPMENT)	NOT USED
TD4	O	CARRIER DETAILS (SPECIAL HANDLING, OR HAZARDOUS)	NOT USED
MAN	O	MARKS AND NUMBERS	NOT USED
DD	O	DEMAND DETAIL	NOT USED
SLN	O	SUBLINE ITEM DETAIL	NOT USED
N1	O	NAME	NOT USED
LM	O	SOURCE CODE INFORMATION	NOT USED
FST	O	FORECAST SCHEDULE	
SDP	O	SHIP/DELIVERY PATTERN	
SHP	O	SHIPPED / RECEIVED INFORMATION	
REF	O	REFERENCE IDENTIFICATION	

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SEGEMENT:

LIN - ITEM IDENTIFICATION

LEVEL:

Detail

MAX USAGE/LOOPS:

1/LIN/200000

PURPOSE:

Specify basic item identification data

GENERAL

INFORMATION:

This segment is used for the part number information such as Lear part number, purchase order, engineering level.

EXAMPLE:

LIN**BP*18030857A*PO*0008000001*PL*00010 N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
LIN01	350	Assigned Identification	O AN 01/20	<u>not used</u>
LIN02	235	Product/Service Id Qualifier	M ID 02/02	"BP" = Buyer Part Number
LIN03	234	Product Service Id	M AN 01/15	W.E.T. Part Number
LIN04	235	Product/Service Id Qualifier	M ID 02/02	"PO" = Purchase Order
LIN05	234	Product Service Id	M AN 10/10	Purchase Order Number
LIN06	235	Product/Service Id Qualifier	M ID 02/02	"PL" = Purchase Order Line
LIN07	234	Product Service Id	M AN 01/15	P.O.Line.Number
LIN08 through LIN31		Provide 13 additional pairs of Product/Service ID Qualifiers and Product/Service ID's to further describe the line item. The below code list applies to each occurrence of data element 235 in these pairs.		

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SEGMENT: **UIT - UNIT DETAIL**

LEVEL: Detail

MAX USAGE/LOOP: 1/None

PURPOSE: Specify item unit data

GENERAL INFORMATION: This segment indicates the unit of measure for all quantities relating to the line item.

EXAMPLE: UIT*EA N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
UIT01	355	Unit Or Basis For Measurement Code	M ID 02/02	EA = Each

SAMPLE OF MEASURE CODES: EA = EACH
PK = PACKAGE
CS = CASE
LT = LOT
PC = PIECE
PL = PALLET

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SEGMENT: PID - PRODUCT/ITEM DESCRIPTION

LEVEL: Detail

MAX USAGE/LOOP: 1000/LIN

PURPOSE: To describe a product or item in coded or free-form format.

GENERAL

INFORMATION: Contains part description in free-form format.

EXAMPLES: PID*F****WIRE HARNESS N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
PID01	349	Item description Type	M ID 01/01	"F"
PID02	750	Product/Process Characteristic Code	X AN 02/03	<u>not used</u>
PID03	559	Agency Qualifier Code	X AN 02/02	<u>not used</u>
PID04	751	Product Description Code.	X AN 01/12	<u>not used</u>
PID05	352	Description	X AN 02/02	Part Description

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SEGMENT: **REF - Reference Numbers**

LEVEL: Detail

MAX USAGE/LOOP: 2

PURPOSE: To transmit identifying numbers associated with named party.

GENERAL
INFORMATION: Contains Individual Release Number

EXAMPLES: REF*RE*206222 N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
REF01	128	Reference Identification Qualifier	M ID 02/03	"RE" Release Number
REF02	127	Reference Identification	C AN 01/30	Internal Schedule Number

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SEGMENT:

ATH - RESOURCE AUTHORIZATION

LEVEL:

Detail

MAX USAGE/LOOP:

20/LIN

PURPOSE:

Specify resource authorizations (i.e., finished labor, material, etc.) in the Planning Schedule

INFORMATION:

This segment is used to authorize quantities to vendors for ordering raw material and finished product.

EXAMPLES:

ATH*PQ*19990308*241511

N/L

ATH*FI*19990401*724573

N/L

ATH*MT*19990514*821654

N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
ATH01	672	Resource Authorization Code	M ID 02/02	"FI" - Finished Product "MT" - Raw Material "PQ" - Cumulative Quantity Required prior to first scheduled period
ATH02	373	Date	X DT 06/06	(CCYYMMDD) Resource Authorization Thru-Date
ATH03	380	Quantity	X R 01/10	ATH01='PQ': Cumulative Quantity that is required prior to date in ATH02. ATH01='MT': Total Quantity Authorized for raw material through date given in ATH02. ATH01='FI': Total Quantity Authorized for finished product through date given in ATH02.
ATH04	380	Quantity	O R 01/15	<u>Not used</u>
ATH05	373	Date	O DT 06/06	<u>Not used</u>

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SEGMENT: **FST - FORECAST SCHEDULE**

LEVEL: Detail

MAX UASGE/LOOP: 260/LIN/SDP

PURPOSE: Specify the forecasted dates and quantities

GENERAL

INFORMATION: This segment is required, although it allows for time to be specified in addition to the date, locations using that level of scheduling will use the Shipping Schedule Transaction Set (862) to convey this information.

EXAMPLES: FST*10*C*W*19990804 N/L
 FST*1366*D*M*19991004 N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
FST01	380	Quantity	M R 01/10	The actual discrete qty.
FST02	680	Forecast Qualifier	M ID 01/01	"A" - Immediate "C" - Firm "D" - Planning - Forecast
FST03	681	Forecast Timing Qualifier	M ID 01/01	"M" - Monthly "W" - Weekly
FST04	373	Forecast Schedule Date	M DT 06/06	(CCYYMMDD) FST03=W: the Monday date of the week the qty is due.
FST05	373	Date	O DT 06/06	<u>not used</u>
FST06	374	Date/Time Qualifier	X ID 03/03	<u>not used</u>
FST07	337	Time	X TM 04/08	<u>not used</u>
FST08	128	Reference Identification Qualifier	X ID 02/03	<u>not used</u>
FST09	127	Reference Identification	X AN 01/10	<u>not used</u>

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SEGMENT: **SDP - SHIP/DELIVERY PATTERN**

LEVEL: Detail/Optional

MAX USAGE/LOOP: 1/LIN/SDP Repeat 260

PURPOSE: Identify specific ship/delivery requirements

GENERAL INFORMATION: This segment specifies what day of the week and/or a time frame during the day that a shipment is to be made.

EXAMPLES: SDP*D*G N/L (ship weekly - monday, any shift)

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
SDP01	678	Ship/Delivery Pattern Code	M ID 01/02	See below SDP01 Options
SDP02	679	Ship/Delivery Pattern Time Code	M ID 01/01	WET use "G" "G" = Any Shift
SDP03	678	Ship/Delivery Pattern Code	O ID 01/02	<u>not used</u>
SDP04	679	Ship/Delivery Pattern Time Code	O ID 01/01	<u>not used</u>
SDP05	678	Ship/Delivery Pattern Code	O ID 01/02	<u>not used</u>
SDP06	679	Ship/Delivery Pattern Time Code	O ID 01/01	<u>not used</u>
SDP07	678	Ship/Delivery Pattern Code	O ID 01/02	<u>not used</u>
SDP08	679	Ship/Delivery Pattern Time Code	O ID 01/01	<u>not used</u>
SDP01 Options	D E F G H	Monday Tuesday Wednesday Thursday Friday		

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SEGMENT:

SHP - SHIPPED/RECEIVED INFORMATION

LEVEL:

Detail

MAX USAGE/LOOP:

12/LIN/SHP

PURPOSE:

Specify shipment and/or receipt information

INFORMATION:

This segment is used to give information on either the last shipment received and the cumulative quantity received as of a certain date.

EXAMPLES:	SHP*01*100*050*199990201	N/L	Received discrete Qty
	SHP*02*1234*050***19990201	N/L	Received Cumulative Qty

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
SHP01	673	Quantity Qualifier	O ID 02/02	01 - Discrete quantity 02 - Cumulative quantity
SHP02	380	Quantity	X R 01/10	
SHP03	374	Date/Time Qualifier	X ID 03/03	051 - Cum qty start date 050 - Received
SHP04	373	Date	X DT 06/06	SHP01='01': received on this date (CCYYMMDD)
SHP05	337	Time	X TM 04/08	<u>not used</u>
SHP06	373	Date	O DT 06/06	Used when SHP03= "051" and SHP01 = "02" This is the cumulative end date.
SHP07	337	Time	O TM 04/06	<u>not used</u>

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SEGMENT: **REF - REFERENCE IDENTIFICATION**

LEVEL: Detail

MAX USAGE/LOOP: 1/SHP

PURPOSE: Transmit identifying numbers associated with the received information in the SHP Segment.

GENERAL INFORMATION: This segment is used to identify the shipment information for the former SHP Segment.

EXAMPLE: REF*BL*A12345-X N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
REF01	128	Reference Identification Qualifier	M ID 02/03	BL - Bill of Lading
REF02	127	Reference Identification	X AN 01/15	Bill of Lading #
REF03	352	Description	X AN 01/80	<u>not used</u>

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SUMMARY SEGMENT DESCRIPTION TABLE

CTT	O	TRANSACTION TOTALS
SE	O	TRANSACTION SET TRAILER

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SEGMENT: **CTT - TRANSACTION TOTALS**

LEVEL: Trailer

MAX USAGE/LOOPS: 1/None

PURPOSE: Transmit a hash total for a specific elements in the transaction set.

GENERAL INFORMATION: Provide number of LIN segments and the sum of the values in the FST01 elements.

EXAMPLE: CTT*14*193999494 N/L

<u>ELEM_ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
CTT01	354	Number Of Line Items	M NO 01/06	Number of LIN segments
CTT02	347	Hash Totals	M R 01/10	Total of quantities from FST01
CTT03	81	Weight	X R 01/10	<u>not used</u>
CTT04	355	Unit Or Basis For Measurement Code	X ID 02/02	<u>not used</u>
CTT05	183	Volume	X R 01/08	<u>not used</u>
CTT06	355	Unit Or Basis For Measurement Code	X ID 02/02	<u>not used</u>
CTT07	352	Description	X AN 01/80	<u>not used</u>

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SEGMENT:

SE - TRANSACTION SET TRAILER

LEVEL:

Summary

MAX USAGE/LOOPS:

1/None

PURPOSE:

Indicate the end of a transaction set and provide the count of the transmitted segments including the 'SE' and 'ST' segments.

EXAMPLE:

SE*5*0001 N/L

<u>ELEM ID</u>	<u>ELEM#</u>	<u>NAME</u>	<u>ATTRIBUTES</u>	<u>COMMENTS</u>
SE01	96	Number Of Included Segments	M NO 01/10	Total number of segments
SE02	329	Transaction Set Control Number	M AN 04/09	Same as corresponding ST02

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ISA*00* *00* *01*247791601 *01*123456789 *070326*1413*U*00401*000000071*0*P*>
GS*PS*247791601*123456789*20070326*1413*71*X*004010
ST*830*0071
BFR*05**070326*SH*A*20070326*20080325*20070326
N1*MI*W.E.T.*1*247791601
N1*ST*W.E.T.*92*0250
N3*2121-B FRONTERA RD.
N4*DEL RIO*TX*78840
PER*BD*MATERIALS DEPARTMENT*TE*830/774-3512
N1*SU*Supplier Name*92*00010009300
N1*SF*Supplier Name*1*123456789
LIN**BP*18030857A*PO*0008000001*PL*00010
UIT*EA
PID*F****Terminal,
REF*RE*204677
ATH*PQ*20070326*328000**20070326
ATH*FI*20061022*340000**20061022
ATH*MT*20061105*344000**20061105
FST*4000*C*D*20061009
FST*8000*C*D*20061016
FST*4000*D*W*20061023
FST*0*D*W*20061030
FST*0*D*W*20061106
FST*0*D*W*20061113
FST*4000*D*W*20061120
FST*0*D*W*20061127
FST*0*D*W*20061204
FST*0*D*W*20061211
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W.E.T. AUTOMOTIVE
830 / 4010 IMPLEMENTATION GUIDELINES FOR EDI CONVENTIONS

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