



Montaplast Automotive Systems Mexico S. de R.L. de C.V.

Montaplast of North America, Inc

IMPLEMENTATION GUIDELINES FOR
ANSI X12 EDI CONVENTIONS

830 TRANSACTION SET
MATERIAL RELEASE

Version 004010
Revised October 30, 2017

Revised by PLEX Systems

830 Material Release

Functional Group ID=**PS**

Introduction:

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) 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 a 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 material; (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 all data related to purchase orders, as required, because the order release capability eliminates the need for discrete generation of purchase orders.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M		1	
M	020	BFR	Beginning Segment for Planning Schedule	M		1	
	130	DTM	Date/Time Reference	O		10	
						LOOP ID - N1	200
M	230	N1	Name	M		1	
M	250	N3	Address Information	M		2	
M	260	N4	Geographic Location	M		1	
	280	PER	Administrative Communications Contact	O		2	

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
						LOOP ID - LIN	>1
M	010	LIN	Item Identification	M		1	
	020	UIT	Unit Detail	O		1	
	080	PID	Product/Item Description	O	1000		
	150	PER	Administrative Communications Contact	O		3	
	230	ATH	Resource Authorization	O		20	
	678	SDP	Ship/Delivery Pattern	M		1	
						LOOP ID - FST	>1
	410	FST	Forecast Schedule	O		1	n1
						LOOP ID - SHP	25

470	SHP	Shipped/Received Information	O	1
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Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	CTT	Transaction Totals	M	1		n2
M	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. At least one occurrence of segment FST is required, either in the FST loop or within the SDP loop. These two loops are mutually exclusive.
2. Number of line items (CTT01) is the accumulation of the number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (FST01) for each FST segment.

Segment:	ST Transaction Set Header
Position:	010
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of a transaction set and to assign a control number
Syntax Notes:	
Semantic Notes:	1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:	

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
ST01	143	Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set	
		830 Planning Schedule with Release Capability	
ST02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

Segment:	BFR Beginning Segment for Planning Schedule
Position:	020
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates
Syntax Notes:	1 At least one of BFR02 or BFR03 is required.
Semantic Notes:	1 If BFR01 contains the value "04" (Net Change), BFR09 is required. 2 BFR02 is the identifying number for a forecast assigned by the orderer/purchaser. 3 BFR06 is the forecast horizon start date: The date when the forecast horizon (envelope) begins. 4 BFR07 is the forecast horizon end date: The date when the forecast horizon (envelope) ends. 5 BFR08 is the date forecast generated: The date the forecast data was generated. 6 BFR09 is the date forecast updated: The date the forecast was updated with "net change" data. (Used only when data element 353 in BFR01 contains the value "04", meaning net change.)
Comments:	

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes ANSI</u>
BFR01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 05 Replace	M ID 2/2
BFR02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier If a release number is not used this field is mandatory - either BFR02 or BFR03 must be used	X AN 1/30
BFR03	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction If a Reference ID is not used this field is mandatory - either BPR02 or BPR03 must be used	X AN 1/30
BFR04	675	Schedule Type Qualifier Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast DL Delivery Based SH Shipment Based	M ID 2/2
BFR05	676	Schedule Quantity Qualifier Code identifying the type of quantities used when defining a schedule or forecast A Actual Discrete Quantities C Cumulative Quantities	M ID 1/1
BFR06	373	Date Date expressed as CCYYMMDD	M DT 8/8

		Forecast start date	
BFR07	373	Date	M DT 8/8
		Date expressed as CCYYMMDD	
		Ending forecast date	
BFR08	373	Date	M DT 8/8
		Date expressed as CCYYMMDD	
		Forecast generation date	
BFR09	373	Date	O DT 8/8
		Date forecast updated	
BFR11	324	Purchase Order Number	O AN 1/22
		Purchase order	

Segment: DTM Date/Time Reference

Position: 130
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify identifying information
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	ANSI
DTM01	374	Date/Time Qualifier Date Code 168 Release	M ID 3/3
DTM02	373	Date CCCCMMDD	X DT 8/8
DTM03	337	Time HHMMSS	X TM 6/6

Segment:	N1 Name
Position:	230
Loop:	N1 Optional
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. 2 N105 and N106 further define the type of entity in N101.

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	ANSI
N101	98	Entity Identifier Code	M ID 4/4
		Code identifying an organizational entity, a physical location, property or an individual	
		MI Planning Schedule/Material Release Issuer	
		ST Ship To	
		SU Supplier/Manufacturer	
		SF Ship From	
N102	93	Name	X AN 1/60
		Free-form name	
N103	66	Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		1 D-U-N-S Number, Dun & Bradstreet	
		92 Assigned by Buyer or Buyer's Agent	
N104	67	Identification Code	X AN 2/80
		Code identifying a party or other code	

Segment: **N3** Address Information
Position: 250
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	ANSI
N301	166	Address Information	M AN 1/55
		Address information	
N302	166	Address Information	O AN 1/55
		Address information	

- Segment:** **N4 Geographic Location**
Position: 260
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes ANSI
N401	19	City Name	O AN 2/30
		Free-form text for city name	
N402	156	State or Province Code	O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
N403	116	Postal Code	O ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	
N404	26	Country Code	O ID 2/3
		Code identifying the country	

Segment: PER Administrative Communications Contact

Position: 060
Loop: N1
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To identify a person or office to whom administrative communications should be directed.

- Syntax Notes:**
- 1 If either PER03 or PER04 is present, then the other is required.
 - 2 If either PER05 or PER06 is present, then the other is required.
 - 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes ANSI</u>
PER03	365	Communication Number Qualifier Code identifying the type of communication number. FX Facsimile TE Telephone	M ID 2/2
PER04	364	Communication Number Complete communications number including country or area code when applicable.	M AN 1/15

Segment: **LIN** Item Identification
Position: 010
Loop: LIN Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: 1 LIN01 is the line item identification
Comments:

- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

Ref.	Data	Attributes
<u>Des.</u>	<u>Element</u> <u>Name</u>	<u>ANSI</u>
LIN 01	350 Assigned Identification	O AN 1/20
	Not Used	
LIN02	235 Product/Service ID Qualifier	M ID 2/2
	Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
	BP Buyer's Part Number	
LIN03	234 Product/Service ID	M AN 1/80
	Identifying number for a product or service	
LIN04	235 Product/Service ID Qualifier	X ID 2/2
	Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
	PO Purchase Order Number	
LIN05	234 Product/Service ID	X AN 1/48
	Identifying number for a product or service	

LIN06	235	Product/Service ID Qualifier	
		EC	Engineering Change Level
LIN07	234	Product/Service ID	
			Identifying number for product
LIN08	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)
		VP	Vendor Product Number
LIN09	234	Product/Service ID	X AN 1/80
			Identifying number for a product or service

Segment: **UIT** Unit Detail
Position: 020
Loop: LIN Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify item unit data
Syntax Notes: 1 If UIT03 is present, then UIT02 is required.
Semantic Notes:
Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		<u>ANSI</u>
UIT01	355	Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		CH Container	
		DZ Dozen	
		EA Each	
		FT Foot	
		GA Gallon	
		LB Pound	
		PR Pair	
		ST Set	
		UN Unit	
		YD Yard	

Segment: **PID** Product/Item Description
Position: 080
Loop: LIN Mandatory
Level: Detail
Usage: Optional
Max Use: 1000
Purpose: To describe a product or process in coded or free-form format
Syntax Notes:
Semantic Notes:
Comments:
Notes:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		<u>ANSI</u>
PID01	349	Item Description Type Code indicating the format of a description F Free-form	M ID 1/1
PID05	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80

Segment:	ATH Resource Authorization
Position:	230
Loop:	LIN Mandatory
Level:	Detail
Usage:	Optional
Max Use:	20
Purpose:	To specify resource authorizations (i.e., finished labor, material, etc.) in the planning schedule
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of ATH02 or ATH03 is required. 2 If ATH03 is present, then ATH05 is required. 3 If ATH04 is present, then ATH05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 ATH02 is the resource authorization through date: The date through which the buyer authorizes the seller to commit the resource defined in element ATH01. 2 ATH03 is the current cumulative requirements quantity: The cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02). 3 ATH05 is the cumulative start date: The date where the cumulative quantity count starts. This date might be the start date of a contract period, a calendar or fiscal year, or other.
Comments:	<ol style="list-style-type: none"> 1 It is imperative that negotiations defining financial commitment have previously occurred and are agreed to by both buyer and seller. 2 ATH04 is the maximum cumulative requirements quantity: The maximum cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02). This is a high water mark. If the forecast decreases, the current cumulative requirements quantity also decreases, but the maximum cumulative requirements quantity does not decrease.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
ATH01	672	Resource Authorization Code	M ID 3/3
		Code identifying the resource which the buyer is authorizing the seller to commit to	
		FI Finished (Labor, Material, and Overhead/Burden)	
		MT Material	
		PQ Previous Quantity Authorized	
ATH02	373	Date	X DT 8/8
		Date expressed as CCYYMMDD	
		Authorization through date	
ATH03	380	Quantity	X R 1/15
		Numeric value of quantity	
		Authorization cumulated quantity	
ATH05	373	Date	X DT 8/8
		Date expressed as CCYYMMDD	
		Start date for cumulative quantity authorization	

Segment: **SDP** Ship/Delivery Pattern

Position: 678
Loop: LIN/SDP Mandatory
Level: Detail
Usage: Optional
Max Use: 1000
Purpose: To identify specific ship/delivery requirements
Syntax Notes:
Semantic Notes:
Comments:
Notes:

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u> <u>ANSI</u>
SDP01	678	Ship/Delivery Code Code which specifies the delivery pattern N As Directed	M ID 1/2
SDP02	679	Ship/Delivery Code F As Directed	M ID 1/2

Segment:	FST Forecast Schedule
Position:	410
Loop:	LIN/SDP Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify the forecasted dates and quantities
Syntax Notes:	<ol style="list-style-type: none"> 1 If either FST06 or FST07 is present, then the other is required. 2 If either FST08 or FST09 is present, then the other is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 If FST03 equals "F" (indicating flexible interval), then FST04 and FST05 are required. FST04 would be used for the start date of the flexible interval and FST05 would be used for the end date of the flexible interval.
Comments:	<ol style="list-style-type: none"> 1 As qualified by FST02 and FST03, FST04 represents either a discrete forecast date, the first date of a forecasted bucket (weekly, monthly, quarterly, etc.) or the start date of a flexible interval. 2 FST06 qualifies the time in FST07. The purpose of the FST07 element is to express the specific time of day in a 24-hour clock to satisfy "just-in-time" requirements. As an alternative, the ship/delivery pattern segment (SDP) may be used to define an approximate time, such as a.m. or p.m.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u> <u>Name</u>	<u>ANSI</u>
FST01	380 Quantity Numeric value of quantity	M R 1/15
FST02	680 Forecast Qualifier Code specifying the sender's confidence level of the forecast data or an action associated with a forecast C Firm D Planning	M ID 1/1
FST03	681 Forecast Timing Qualifier Code specifying interval grouping of the forecast C Daily D Discrete F Flexible Interval (from Date X through Date Y) M Monthly Bucket (Calendar Months)	M ID 1/1
FST04	373 Date Date expressed as CCYYMMDD Scheduled date	M DT 8/8
FST05	373 Date Date expressed as CCYYMMDD Not Used	O DT 8/8
FST06	374 Date/Time Qualifier Code specifying type of date or time Not used	M ID 1/1

FST07	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD =hundredths (00-99) Not Used	X	TM 4/8
FST08	128	Reference Identification Qualifier Code qualifying the Reference Identification DO Delivery Order Number/RAN	X	ID 2/3
FST09	127	Reference Identification Reference information as specified by the Reference Identification Qualifier	X	AN 1/30

Segment: SHP Shipped/Received Information

Position: 470
Loop: SHP
Level: Detail
Usage: Used
Max Use: 2
Purpose: To specify shipment and/or receipt information.
Syntax Notes:
Semantic Notes:
Comments:
Notes:

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	ANSI
SHP01	673	Quantity Qualifier Code which specifies the type of quantity 01 Discrete Quantity 02 Cumulative Quantity	O ID 2/2
SHP02	380	Quantity Numeric Value of Quantity	X R 1/15
SHP03	374	Date/Time Qualifier Code which specifies the type of date. 011 Shipped 051 Cumulative Quantity Start	X ID 3/3
SHP04	373	Date Date received (011) or Cumulative Quantity Start Date (CCYYMMDD)	O DT 8/8
SHP06	373	Date Cumulative Quantity End Date (CCYYMMDD)	O DT 8/8

Segment: REF Reference Numbers

Position: 480
Loop: SHP
Level: Detail
Usage: Used
Max Use: 2
Purpose: To specify indentifying information
Syntax Notes:
Semantic Notes:
Comments:
Notes:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		<u>ANSI</u>
REF01	128	Reference Qualifier Code qualifying the reference ID SI Shipper ID	M ID 2/3
REF02	127	Reference ID	X AN 1/30

Segment: **CTT** Transaction Totals
Position: 010
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
 2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
CTT01	354	Number of Line Items	M N0 1/6
		Total number of line items in the transaction set	
		Total number of LIN segments	

Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

Sample:

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ISA*00*      *00*      *ZZ*ACME      *ZZ*SUPPLIER      *130916*0200*U*00401*000000112*0*T*~
GS*PS*ACME*SUPPLIER*20130916*0200*112*X*004010~
ST*830*0001~
BFR*05**20130916*DL*A*20130916*20131125*20130916~
DTM*168*20130916*020002~
N1*MI*ACME MANUFACTURING*92*ACME1~
N1*SU*SUPPLIER*1*123456789~
N1*SF*SUPPLIER*1*123456789~
N1*ST*ACME*92*ACME1~
N3*ACME PRODUCTS INC.~
N4*ALBUQUERQUE*NM*48329~
LIN**BP*ACME PART NO*EC*BD*PO*000330~
UIT*PC~
PID*F****LX GRAB HANDLE SWITCH~
ATH*PQ*20130916*8161**20121231~
ATH*FI**14129**20121231~
ATH*MT**14129**20121231~
SDP*N*F~
FST*50*C*W*20130916~
FST*0*D*W*20130917~
FST*0*D*W*20130918~
FST*0*D*W*20130919~
FST*0*D*W*20130920~
FST*200*D*W*20130923~
FST*0*D*W*20130924~
FST*0*D*W*20130925~
FST*0*D*W*20130926~
FST*0*D*W*20130927~
FST*0*D*W*20130930~
SHP*01*500*011*20120410~
SHP*02*8161*051*20121231**20120410~
REF*SI*123123~
LIN**BP*111-W5W*EC*AA*PO*000330~
UIT*PC~
PID*F****BULB 5 W~
ATH*PQ*20130916*2500**20121231~
ATH*FI**2756**20121231~
ATH*MT**2756**20121231~
SDP*N*F~
FST*56*D*W*20130916~
FST*0*D*W*20130917~
FST*0*D*W*20130918~
FST*0*D*W*20130919~
FST*0*D*W*20130920~
FST*0*D*W*20130923~
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SHP*02*2500*051*20121231**20100314~
REF*SI*741~
CTT*2~
SE*69*0001~

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Montaplast Automotive Systems Mexico S. de R.L. de C.V.

Montaplast of North America, Inc

IMPLEMENTATION GUIDELINES FOR
ANSI X12 EDI CONVENTIONS

856 TRANSACTION SET
SHIP NOTICE

Version 004010
Revised January 29, 2020

Revised by PLEX Systems

856 Ship Notice

Functional Group ID=SH

This document contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must Use
020	BSN	Beginning Segment for Ship Notice	M	1			Must Use
040	DTM	Date/Time Reference	O	10			Used

<u>LOOP ID - HL</u>						<u>200000</u>
010	HL	Hierarchical Level (Shipment)	M	1		Must Use
080	MEA	Measurements	O	40		Used
110	TD1	Carrier Details (Quantity and Weight)	O	20		Used
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		Used
130	TD3	Carrier Details (Equipment)	O	12		Used
150	REF	Reference Identification	O	>1		Used
151	PER	Administrative Contact	O	3		Used

<u>LOOP ID - HL/CLD</u>						<u>200000</u>
210	FOB	F.O.B. Related Instructions	O	1		Used

<u>LOOP ID -HL/N1</u>						<u>200</u>
220	N1	Name	O	1		Used
260	REF	Reference Numbers	O	12		Used
310	CUR	Currency	O	1		Used

<u>LOOP ID -HL</u>						<u>200000</u>
320	HL	Hierarchical Level (Tare)	O	1		Used
330	CLD	Load Detail	O	1		Used
340	REF	Reference Numbers	O	1		Used

<u>LOOP ID -HL</u>						<u>200000</u>
010	HL	Hierarchical Level (Item)	M	1		Must Use
020	LIN	Item Identification	O	1		Used
030	SN1	Item Detail	O	1		Used
040	PRF	Purchase Order Reference	O	1		Used
050	REF	Reference Numbers	O	1		Used

LOOP ID – HL/CLD							200000
060	CLD	Load Detail	O	1		Used	
070	REF	Reference Numbers	O	200		Used	

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	CTT	Transaction Totals	M	1		N3/010	Used
020	SE	Transaction Set Trailer	M	1			Used

Notes:

3/010 The number of lines items (CTT01) is the accumulation of number of LIN segments.

Revision History	
Date	Change
1/30/2018	Added <i>Release Number</i> reference within Loop HL/CLD
10/14/2019	Added optional <i>DTM 094 qualifier</i> segment
12/6/2019	Added optional <i>RFF AN qualifier</i> segment
1/29/2020	Added clarification regarding BSN Purpose Codes 01 and 05

ST**Transaction Set Header**

Pos: 010	Max: 1
Heading - Mandatory	
Loop:	Elements: 2

User Option (Usage): Must Use

To indicate the start of a transaction set and to assign a control number.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Must Use
		<u>Code</u> <u>Name</u>				
		856 Ship Notice Manifest				
ST02	329	Transaction Set Control Number	M	AN	4/9	Must Use

BSN**Beginning Segment for Ship Notice**

Pos: 020	Max: 1
Heading - Mandatory	
Loop:	Elements: 4

User Option (Usage): Must use

To transmit identifying numbers, dates, and other basic data relating to the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>								
BSN01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set	M	ID	2/2	Must use								
		NOTE: Although 01 and 05 are valid codes, there is no integrated or automated processing of transactions sent with these codes.												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Original</td> </tr> <tr> <td>01</td> <td>Cancellation</td> </tr> <tr> <td>05</td> <td>Replacement</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	00	Original	01	Cancellation	05	Replacement				
<u>Code</u>	<u>Name</u>													
00	Original													
01	Cancellation													
05	Replacement													
X														
X														
BSN02	396	Shipment Identification Description: A unique control number assigned by the original shipper to identify a specific shipment. Not repeated when BSN01 = 00	M	AN	1/30	Must use								
BSN03	373	Date Description: Date expressed as CCYYMMDD Generated Date	M	DT	8/8	Must use								
BSN04	337	Time Description: Time expressed in 24 hour clock time HHMM or HHMMSS or HHMMSSD	M	TM	4/8	Must use								

DTM

Date/Time Reference

Pos: 030	Max: 10
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

To specify pertinent dates and times.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier Description: To specify pertinent dates and times	M	ID	3/3	Used
		Code Name 011 Ship Date				
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM02	373	Date Description: CCYYMMDD	C	DT	8/8	Used
DTM03	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Used

HL**Hierarchical Level**

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Used

To identify dependencies amount and the contest of hierarchically related groups of data segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure. Use 1 for this occurrence	M	AN	1/12	Must Use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next hierarchical data segment that the data segment being described is subordinate to Not used for this occurrence of the HL segment	O	AN	1/12	Not Used
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure. S - Shipment	M	ID	1/2	Must Use

MEA Measurements

Pos: 080	Max: 40
Heading - Mandatory	
Loop: HL	Elements: 4

User Option (Usage): Used

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	Measurement Reference ID Code Description: code identifying the broad category to which a measurement applies <u>Code</u> <u>Name</u> PD Physical Dimensions	O	ID	2/2	Must Use
MEA02	738	Measurement Qualifier Description: Code identifying a specific product or process characteristic to which a measurement applies <u>Code</u> <u>Name</u> G Gross Weight (Required) N Net Weight	O	ID	1/3	Used
MEA03	739	Measurement Value Description: The value of the measurement	X	R	1/20	Must Use
MEA04	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X	ID	2/2	Used

Syntax:

1. R0305068 - At least one of MEA03, MEA05,, MEA06 or MEA08 is required

TD1**Carrier Details (Quantity and Weight)**

Pos: 110	Max: 20
Heading - Optional	
Loop: HL	Elements: 4

User Option (Usage): Used

Used to specify lading quantity and package type.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD101	103	Packaging Code Description: Code identifying the type of packaging: Part 1 Packaging Form, Part 2: Packaging Material: if the Data Element is used, then Part 1 is always required	O	AN	3/5	Used
TD102	80	Lading Quantity Description: Number of units of lading commodity	X	N0	1/7	Used
TD103	23	Commodity Code Qualifier Description: code identifying the commodity coding system used for Commodity Code	O	ID	1/1	Not Used
TD104	22	Commodity Code Description: Code describing a commodity or group of commodities	X	AN	2/80	Not Used

Syntax:

1. C0102 – If TD101 is present, then TD102 is required
2. C0304 – If TD103 is present, then TD104 is required

TD5**Carrier Details (Routing Sequence/Transit Time)**

Pos: 120	Max: 12
Heading - Optional	
Loop: HL	Elements: 4

User Option (Usage): Used

To specify the carrier and sequence of routing and provide transit time information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD501	133	Routing Sequence Code Description: Code describing the relationship of a carrier to a specific shipment movement <u>Code</u> <u>Name</u> B Origin/Delivery Carrier	O	ID	1/2	Must Use
TD502	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code <u>Code</u> 2 – Standard Carrier Alpha Code (SCAC)	X	ID	1/2	Must Use
TD503	67	Identification Code Description: Code identifying a party or other code	X	AN	2/80	Must Use
TD504	91	Transportation Method/Type Code Description: Code specifying the method or type of transportation for the shipment.	X	ID	1/2	Must Use

Syntax:

1. R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required
2. C0203 - If TD502 is present, then TD503 is required

TD3**Carrier Details (Equipment)**

Pos: 130	Max: 12
Heading - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

To specify transportation details relating to the equipment used by the carrier

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD301	40	Equipment Description Code Description: Code identifying type of equipment used for shipment	X	ID	2/2	Used
TD302	206	Equipment Initial Description: Prefix or alphabetic part of an equipment unit's identifying number	O	AN	1/4	Used
TD303	207	Equipment Number Description: Sequencing or serial part of an equipment unit's identifying number	X	AN	1/10	Used

Syntax:

1. E0110 – Only one of TD301 or TD310 may be present
2. C0203 - If TD302 is present, then TD303 is required

Comments:

1. Maximum use of this TD3 segment is one. This TD3 is used to identify the serial number of the trailer or railcar

REF**Reference Identification**

Pos: 150	Max: 12
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Optional

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		Code Name				
		AW Air Waybill Number				
		BM Bill of Lading				
		CN Carrier's Reference				
		FR Freight Bill Number				
		MB Master Bill of Lading				
		PK Packing List				
		SI Shipper's Identifying Number				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

Syntax:

1. R0203 - At least one of REF02,REF03 is required

PER**Administrative Contact**

Pos: 100	Max: 3
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

To identify a person or office to whom communications should be directed.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code Description: Code identifying the responsibility of the person named.	M	ID	2/2	Used
		Code Name SH Shipper Contact				
PER02	93	Name Description: Free-form name	O	AN	1/35	
PER03	365	Communications Number Qualifier Description: Code identifying the type of communication number	X	ID	2/2	
		Code Name TE Telephone				
PER04	364	Communications Number	X	AN	1/80	

FOB

F.O.B Related Instructions

Pos: 210	Max: 1
Detail - Optional	
Loop: HL/CLD	Elements: 1

User Option (Usage): Used

To specify transportation instructions relating to shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FOB01	146	Shipment method of payment Description: Code identifying payment terms for transportation charges	M	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		CC Collect				
		PP Prepaid				

N1**Name**

Pos: 220	Max: 1
Heading - Optional	
Loop: HL/N1	Elements: 4

User Option (Usage): Used

To identify a party by type of organization, name, and code

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>								
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>SU</td> <td>Supplier/Manufacturer</td> </tr> <tr> <td>ST</td> <td>Ship To</td> </tr> <tr> <td>SF</td> <td>Ship From</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	SU	Supplier/Manufacturer	ST	Ship To	SF	Ship From	M	ID	2/3	Must use
<u>Code</u>	<u>Name</u>													
SU	Supplier/Manufacturer													
ST	Ship To													
SF	Ship From													
N102	93	Name Description: Free-form name	C	AN	1/60	Used								
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>01</td> <td>D-U-N-S Number, Dun & Bradstreet</td> </tr> <tr> <td>92</td> <td>Assigned by Buyer or Buyer's Agent</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	01	D-U-N-S Number, Dun & Bradstreet	92	Assigned by Buyer or Buyer's Agent	C	ID	1/2	Used		
<u>Code</u>	<u>Name</u>													
01	D-U-N-S Number, Dun & Bradstreet													
92	Assigned by Buyer or Buyer's Agent													
N104	67	Identification Code Description: Code identifying a party or other code	C	AN	2/80	Used								

Syntax:

1. R0203 - At least one of N102,N103 is required
2. P0304 - If either N103,N104 is present, then all are required

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

REF**Reference Identification**

Pos: 090	Max: 12
Detail - Optional	
Loop: HL/N1	Elements: 2

User Option (Usage): Optional

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		Code Name DK Dock Number				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

Syntax:

1. R0203 - At least one of REF02,REF03 is required

Comments:

1. This segment is used in reference to the Ship To Party – N101 = ST.

CUR Currency

Pos: 310	Max: 1
Detail - Optional	
Loop: HL/N1	Elements: 2

User Option (Usage): Optional

To specify the currency used in a transaction

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CUR01	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location/ property or an individual <u>Code</u> <u>Name</u> SE Selling Party	M	ID	2/3	Must use
CUR02	100	Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified	M	ID	3/3	Must use

Comments:

1. This segment is used in reference to the Supplier – N101 = SU

HL**Hierarchical Level**

Pos: 320	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

To identify dependencies amount and the contest of hierarchically related groups of data segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.	M	AN	1/12	Must Use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Used
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure.	M	ID	1/2	Must Use

T - Tare

CLD**Container Load Details**

Pos: 320	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

To specify the number of material loads shipped

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CLD01	622	Number of loads Description: Number of customer-defined loads shipped by the supplier	M	N0	1/5	Must Use
CLD02	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R	1/10	Must Use
CLD03	103	Packaging Code Description: Code identifying the type of packaging: Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used then Part 1 is always required	O	AN	3/5	Used

REF**Reference Identification**

Pos: 090	Max: 12
Detail - Optional	
Loop: HL/N1	Elements: 2

User Option (Usage): Optional

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	1/3	Must use
		Code Name				
		HC Heat Code				
		LS Bar-coded Serial Number – Master Unit				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier. Heat code will allow a max of 30 but Master Unit Serial is limited to a max of 10 positions.	C	AN	1/10	Used

Syntax:

1. R0203 - At least one of REF02,REF03 is required

HL**Hierarchical Level**

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Used

To identify dependencies amount and the contest of hierarchically related groups of data segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.	M	AN	1/12	Must Use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Used
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure.	M	ID	1/2	Must Use

I - Item

LIN

Item Identification

Pos: 020	Max: 1
Detail - Mandatory	
Loop: LIN	Elements: 12

User Option (Usage): Must use

To specify basic item identification data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN01	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
LIN02	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <u>Code</u> <u>Name</u> BP Buyer's Part Number	M	ID	2/2	Must use
LIN03	234	Product/Service ID Description: Identifying number for a product or service	M	AN	1/48	Must use
LIN04	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <u>Code</u> <u>Name</u> EC Engineering Change Level	O	ID	2/2	Used
LIN05	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN06	234	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <u>Code</u> <u>Name</u> PO Purchase Order Number	M	AN	2/2	Used
LIN07	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN08	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <u>Code</u> <u>Name</u> PD Product Description	O	ID	2/2	Used
LIN09	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used

LIN10	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	O	ID	2/2	Used
		<u>Code</u> VP		<u>Name</u> Vendor's (Seller's) Part Number		
LIN09	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN11	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	O	ID	2/2	Used
		<u>Code</u> PL		<u>Name</u> Purchase Order Line Number		
LIN12	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used

Syntax:

1. P0405 - If either LIN04,LIN05 is present, then all are required
2. P0607 - If either LIN06,LIN07 is present, then all are required
3. P0809 - If either LIN08,LIN09 is present, then all are required
4. P1011 - If either LIN10,LIN11 is present, then all are required
5. P1213 - If either LIN12,LIN13 is present, then all are required
6. P1415 - If either LIN14,LIN15 is present, then all are required
7. P1617 - If either LIN16,LIN17 is present, then all are required
8. P1819 - If either LIN18,LIN19 is present, then all are required
9. P2021 - If either LIN20,LIN21 is present, then all are required
10. P2223 - If either LIN22,LIN23 is present, then all are required
11. P2425 - If either LIN24,LIN25 is present, then all are required
12. P2627 - If either LIN26,LIN27 is present, then all are required
13. P2829 - If either LIN28,LIN29 is present, then all are required
14. P3031 - If either LIN30,LIN31 is present, then all are required

Semantics:

1. LIN01 is the line item identification

Comments:

1. See the Data Dictionary for a complete list of IDs.
2. LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

SN1**Item Detail**

Pos: 030	Max: 1
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Must Use

To specify line-item detail relative to shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SN101	350	Assigned Identification Description: Alpha numeric characters assigned for differentiation within a transaction set.	O	AN	1/20	Not Used
SN102	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R	1/10	Must Use
SN103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken This must be the same Unit of Measure provided on the corresponding releasing document	M	ID	2/2	Must Use
SN104	646	Quantity Shipped to Date Description: Number of units shipped to date.	O	R	1/15	Used

PRF Purchase Order Reference

Pos: 040	Max: 1
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Must Use

To provide reference to a specific purchase order

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the buyer/purchaser	M	AN	1/22	Not Used
PRF02	328	Release Number Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction.	O	AN	1/30	Not Used
PRF03	350	Change Order Sequence Number Description: Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	O	AN	1/11	Not Used
PRF04	373	Date Description: Purchase Order Date expressed as CCYYMMDD	O	DT	8/8	Used

REF**Reference Identification**

Pos: 050	Max: 12
Detail - Optional	
Loop: LIN	Elements: 2

User Option (Usage): Optional

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		Code Name				
		DK Dock Number				
		LF Assembly Line Feed Location				
		DO Delivery Order Number (RAN)				
		AN Associated Purchase Order				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

Syntax:

1. R0203 - At least one of REF02,REF03 is required

CLD**Container Load Details**

Pos: 060	Max: 1
Detail - Optional	
Loop: HL/CLD	Elements: 3

User Option (Usage): Used

To specify the number of material loads shipped

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CLD01	622	Number of loads Description: Number of customer-defined loads shipped by the supplier	M	N0	1/5	Must Use
CLD02	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R	1/10	Must Use
CLD03	103	Packaging Code Description: Code identifying the type of packaging: Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used then Part 1 is always required	O	AN	3/5	Used

REF Reference Identification

Pos: 070	Max: 200
Detail - Optional	
Loop: HL/CLD	Elements: 2

User Option (Usage): Optional

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	1/3	Must use
		Code Name				
		HC Heat Code				
		LS Bar-coded Serial Number				
		LT Lot Number				
		KB Beginning Kanban Number				
		KE Ending Kanban Number				
		RE Release Number				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier. Heat code will allow a max of 30 but Master Unit Serial is limited to a max of 10 positions.	C	AN	1/10	Used

Syntax:

1. R0203 - At least one of REF02,REF03 is required

DTM

Date/Time Reference

Pos: 080	Max: 10
Heading - Optional	
Loop: HL/CLD	Elements: 3

User Option (Usage): Used

To specify pertinent dates and times.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier Description: To specify pertinent dates and times	M	ID	3/3	Used
		Code Name 094 Manufacture Date				
DTM02	373	Date Description: CCYYMMDD	C	DT	8/8	Used
DTM03	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Used

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Used

To transmit a hash total for a specific element in the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set	M	N0	1/6	Must use
CTT02	347	Hash Total	O	R	1/10	Used

Syntax:

1. P0304 - If either CTT03,CTT04 is present, then all are required
2. P0506 - If either CTT05,CTT06 is present, then all are required

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

SE**Transaction Set Trailer**

Pos: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Used

To transmit a hash total for a specific element in the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set	M	N0	1/6	Must use
CTT02	347	Hash Total	O	R	1/10	Used

Syntax:

1. P0304 - If either CTT03,CTT04 is present, then all are required
2. P0506 - If either CTT05,CTT06 is present, then all are required

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.



Montaplast Automotive Systems Mexico S. de R.L. de C.V.

Montaplast of North America, Inc

IMPLEMENTATION GUIDELINES FOR
ANSI X12 EDI CONVENTIONS

862 TRANSACTION SET
SHIPPING SCHEDULE

Version 004010
Revised September 10, 2019

Revised by PLEX Systems

862 Ship Schedule

Functional Group ID=DL

This Standard contains the format and establishes the data contents of the Shipping Schedule Transaction Set (862) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by a customer to convey precise shipping schedule requirements to a supplier, and is intended to supplement the planning schedule transaction set (830). The shipping schedule transaction set will supersede certain shipping and delivery information transmitted in a previous planning schedule transaction, but it does not replace the 830 transaction set. The shipping schedule transaction set shall not be used to authorize labor, materials or other resources. The use of this transaction set will facilitate the practice of Just-In-Time (JIT) manufacturing by providing the customer with a mechanism to issue precise shipping schedule requirements on a more frequent basis than with the issuance of a planning schedule transaction, e.g., daily shipping schedules versus weekly planning schedules. The shipping schedule transaction also provides the ability for a customer location to issue shipping requirements independent of other customer locations when planning schedule transactions are issued by a consolidated scheduling organization.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			
020	BSS	Beginning Segment for Shipping Schedule/Production Sequence	M	1			Must use
030	DTM	Date/Time Reference	O	10			
LOOP ID - N1					200		
050	N1	Name	O	1			Used
090	REF	Reference Numbers	O	12			Used
100	PER	Administrative Contact	O	3			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - LIN					10000		
010	LIN	Item Identification	M	1			Must use
020	UIT	Unit Detail	M	1			Must use
030	PKG	Marking, Packing, Loading	O	>1			Used
040	PO4	Item Physical Details	O	>1			Used
090	REF	Reference Numbers	O	12			Used
LOOP ID - FST					100		
080	FST	Forecast Schedule	O	1			Must Use
LOOP ID - JIT					100		
110	JIT	Just-In-Time Schedule	O	1			Used
120	REF	Reference Numbers	O	>1			
LOOP ID - SHP					10		
140	SHP	Shipped/Received Information	O	1			Used
150	REF	Reference Identification	O	12			Used

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	M	1		N3/010	Used
020	SE	Transaction Set Trailer	M	1			Used

Notes:

3/010 The number of lines items (CTT01) is the accumulation of number of LIN segments.

Revision History	
Date	Change
9/11/2018	Correct SHP05 to SHP06
7/9/2019	Correct LIN element counters
9/10/2019	Add UIT02 Unit Price

BSS**Beginning Segment for Shipping Schedule/Production Sequence**

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 6

User Option (Usage): Must use

To transmit identifying numbers, dates, and other basic data relating to the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BSS01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set	M	ID	2/2	Must use
		Code Name				
		00 Original				
		05 Replacement				
BSS02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Must use
BSS03	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
		Generated Date				
BSS04	675	Schedule Type Qualifier Description: Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast	M	ID	2/2	Must use
		Code Name				
		DL Delivery Based				
		SH Shipment Based				
BSS05	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
		Start Date				
BSS06	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
		End Date				
BSS07	328	Release Number	X	AN	1/30	Used
BSS11	676	Schedule Quantity Qualifier Code A – Actual Discrete Quantities D – Net Change Quantities R – Replacement Quantities	O	ID	1/1	Used

Semantics:

1. Use BSS02 to indicate a document number.
2. Use BSS03 to indicate the date of this document.
3. Use BSS05 to indicate the schedule horizon start date (the date when the schedule begins).
4. Use BSS06 to indicate the schedule horizon end date (the date when the schedule ends).

DTM**Date/Time Reference**

Pos: 030	Max: 10
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

To specify pertinent dates and times.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	3/3	Used
		Code Name				
		102 Issue Date				
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM02	373	Date Description: CCYYMMDD	C	DT	8/8	Used
DTM03	337	Time	C	TM	4/8	Used

N1**Name**

Pos: 050	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

To identify a party by type of organization, name, and code

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>SU</td> <td>Supplier/Manufacturer</td> </tr> <tr> <td>ST</td> <td>SHIP TO</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	SU	Supplier/Manufacturer	ST	SHIP TO				
<u>Code</u>	<u>Name</u>											
SU	Supplier/Manufacturer											
ST	SHIP TO											
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
N102	93	Name Description: Free-form name	C	AN	1/60	Used						
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Used						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>01</td> <td>D-U-N-S Number, Dun & Bradstreet</td> </tr> <tr> <td>92</td> <td>Assigned by Buyer or Buyer's Agent</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	01	D-U-N-S Number, Dun & Bradstreet	92	Assigned by Buyer or Buyer's Agent				
<u>Code</u>	<u>Name</u>											
01	D-U-N-S Number, Dun & Bradstreet											
92	Assigned by Buyer or Buyer's Agent											
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
N104	67	Identification Code Description: Code identifying a party or other code	C	AN	2/80	Used						

Syntax:

1. R0203 - At least one of N102,N103 is required
2. P0304 - If either N103,N104 is present, then all are required

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

REF Reference Identification

Pos: 090	Max: 12
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Optional

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		Code Name DK Dock Number				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

Syntax:

1. R0203 - At least one of REF02,REF03 is required

Dock Codes & Addresses

EDI Dock Code	Company	Address 1 and 2	City, State	Country	Postal Code
R0	Montaplast of North America	Receiving 2011 Hoover Blvd	Frankfort, KY	US	40601
20	Montaplast of North America	Area 2 2011 Hoover Blvd	Frankfort, KY	US	40601
30	Montaplast of North America	Area 3 2011 Hoover Blvd	Frankfort, KY	US	40601
K0	Montaplast of North America	2000 Hoover Blvd	Frankfort, KY	US	40601
DT	Montaplast of North America	1849 Pond Run	Auburn Hills, MI	US	48326
HS	Montaplast Automotive Systems Mexico	Ave. Lincoln No. 10-A Parque Industrial	Hermosillo, SON	MX	83297
MB	Montaplast GmbH	Krottorfer Str 25	Morsbach/Sieg	DE	51597
SZ	Montaplast Automotive Systems	2# ShaBeiXiang East SuHong Road, SIP	Suzhou, Jiangsu	CN	215021
ZZ	As Directed				

PER**Administrative Contact**

Pos: 100	Max: 3
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

To identify a person or office to whom communications should be directed.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code Description: Code identifying the responsibility of the person named.	M	ID	2/2	Used
		Code Name SU Supplier Contact				
PER02	93	Name Description: Free-form name	O	AN	1/35	
PER03	365	Communications Number Qualifier Description: Code identifying the type of communication number	X	ID	2/2	
		Code Name TE Telephone				
PER04	364	Communications Number	X	AN	1/80	

LIN	Item Identification	Pos: 010 Max: 1 Detail - Mandatory Loop: LIN Elements: 12
------------	----------------------------	--

User Option (Usage): Must use

To specify basic item identification data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN01	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
LIN02	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <u>Code</u> <u>Name</u> BP Buyer's Part Number	M	ID	2/2	Must use
LIN03	234	Product/Service ID Description: Identifying number for a product or service	M	AN	1/48	Must use
LIN04	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <u>Code</u> <u>Name</u> EC Engineering Change Level	O	ID	2/2	Used
LIN05	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN06	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <u>Code</u> <u>Name</u> PO Purchase Order Number	M	AN	2/2	Used
LIN07	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN08	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <u>Code</u> <u>Name</u> PD Product Description	O	ID	2/2	Used
LIN09	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used

LIN10	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	O	ID	2/2	Used
		<u>Code</u> VP		<u>Name</u> Vendor's (Seller's) Part Number		
LIN11	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN12	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	O	ID	2/2	Used
		<u>Code</u> PL		<u>Name</u> Purchase Order Line Number		
LIN13	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used

Syntax:

1. P0405 - If either LIN04,LIN05 is present, then all are required
2. P0607 - If either LIN06,LIN07 is present, then all are required
3. P0809 - If either LIN08,LIN09 is present, then all are required
4. P1011 - If either LIN10,LIN11 is present, then all are required
5. P1213 - If either LIN12,LIN13 is present, then all are required
6. P1415 - If either LIN14,LIN15 is present, then all are required
7. P1617 - If either LIN16,LIN17 is present, then all are required
8. P1819 - If either LIN18,LIN19 is present, then all are required
9. P2021 - If either LIN20,LIN21 is present, then all are required
10. P2223 - If either LIN22,LIN23 is present, then all are required
11. P2425 - If either LIN24,LIN25 is present, then all are required
12. P2627 - If either LIN26,LIN27 is present, then all are required
13. P2829 - If either LIN28,LIN29 is present, then all are required
14. P3031 - If either LIN30,LIN31 is present, then all are required

Semantics:

1. LIN01 is the line item identification

Comments:

1. See the Data Dictionary for a complete list of IDs.
2. LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

UIT

Unit Detail

Pos: 020	Max: 1
Detail - Mandatory	
Loop: LIN	Elements: 1

User Option (Usage): Must use

To specify item unit data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
UIT01	355	Unit or Basis of Measurement Code Description: To identify a composite unit of measure.	M	ID	2/2	Must Use
UIT02	212	Unit Price Description: Price of a single unit.	X	R	1/14	Used

PKG**Marking, Packing, Loading**

Pos: 030	Max: >1
Detail - Optional	
Loop: LIN	Elements: 1

User Option (Usage): Optional

To describe marking, packing and loading requirements.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PKG01	349	Item Description Type Description: Code indicating the format of a description	C	ID	1/1	Must use
		<u>Code</u> <u>Name</u> F Free-form				
PKG02	753	Packaging Characteristic Code Description: Code specifying the marking, packaging, loading and related characteristics being described.	O	ID	1/5	Used
		<u>Code</u> <u>Name</u> 35 Type of Package				
PKG03	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values.	C	ID	2/2	Not Used
PKG04	754	Packaging Description Code Description: A code from an industry code list which provides specific data about the marking, packing or loading of a product.	C	AN	1/7	Not Used
PKG05	352	Description Description: A free-form description to clarify the related data elements and their content.	M	AN	1/80	Must use
		Packaging				

Syntax:

1. Either PKG04 or PKG05 is required. If PKG04 is present, PKG03 is required.

PO4

Item Physical Details

Pos: 040	Max: >1
Detail - Optional	
Loop: LIN	Elements: 1

User Option (Usage): Used

To specify their physical quantities, packaging, weights and dimensions relating to the item.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO401	356	Pack Description: Number of inner pack units per outer pack unit	O	N0	1/6	Not Used
PO402	357	Size Description: Size of supplier unit in pack.	O	N0	1/8	Used
PO403	355	Unit of Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.	X	ID	2/2	Used

Syntax:

1. If PO402 is present, then PO403 is required.

REF**Reference Identification**

Pos: 050	Max: 12
Detail - Optional	
Loop: LIN	Elements: 2

User Option (Usage): Optional

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		Code Name				
		DK Dock Number				
		KB Beginning Kanban Number				
		KE Ending Kanban Number				
		LF Assembly Line Feed Location				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

Syntax:

1. R0203 - At least one of REF02,REF03 is required

FST Forecast Schedule

Pos: 080	Max: 1
Detail - Mandatory	
Loop: LIN/FST	Elements: 4

User Option (Usage): Used

To specify the forecasted dates and quantities.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
FST01	380	Quantity Description: Numeric value of quantity	M	R	1/15	Used						
FST02	680	Forecast Qualifier Description: Code specifying the sender's confidence level of the forecast data. <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>C</td> <td>Firm</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	C	Firm	C	R	1/15	Used		
<u>Code</u>	<u>Name</u>											
C	Firm											
FST03	681	Forecast Timing Qualifier Description: Code specifying interval grouping of data <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>C</td> <td>Daily</td> </tr> <tr> <td>D</td> <td>Discrete</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	C	Daily	D	Discrete	C	ID	3/3	Used
<u>Code</u>	<u>Name</u>											
C	Daily											
D	Discrete											
FST04	373	Date Description: Delivery Date expressed as CCYYMMDD	C	DT	8/8	Used						
FST05	373	Date	O	DT	8/8	Not Used						
FST06	374	Date/Time Qualifier	X	ID	3/3	Not Used						
FST07	337	Time	X	TM	4/8	Not Used						
FST08	128	Reference Number Qualifier Description: Code Qualifying the Reference Number DO – Delivery Order Number	X	ID	2/3	Used						
FST09	127	Reference Number – Release Authorization Number (RAN)	X	AN	1/30	Used						

JIT	Just-In-Time Schedule	Pos: 110	Max: 1
		Detail - Optional	
		Loop: LIN/FST/JIT	Elements: 2

User Option (Usage): Optional

To identify the specific shipping/delivery time in terms of a 24-hour clock and identify the associated quantity

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
JIT01	380	Quantity Description: Numeric value of quantity	O	N	1/15	Optional

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
JIT02	337	Time Description: HHMMSS EX: 000001	C	R	4/8	Optional

Syntax:

1. The sum of the quantities in the JIT segments must add up to the quantity transmitted in the previous FST segment
2. Time sent in the JIT02 is sent in the format HHMMSS. EX: 000001

REF**Reference Identification**

Pos: 120	Max: 12
Detail - Optional	
Loop: LIN/FST/JIT	Elements: 2

User Option (Usage): Used

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		<u>Code</u> <u>Name</u> RE Release Number				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

Syntax:

1. R0203 - At least one of REF02,REF03 is required

SHP

Shipped/Received Information

Pos: 140	Max: 1
Detail - Optional	
Loop: SHP	Elements: 5

User Option (Usage): Used

To specify shipment and/or receipt information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SHP01	673	Quantity Qualifier Description: Code specifying the type of quantity	O	ID	2/2	Used
		Code Name				
		01 Discrete Quantity				
		02 Cumulative Quantity				
Ref	Id	Element Name	Req	Type	Min/Max	Usage
SHP02	380	Quantity Description: Numeric value of quantity last received.	C	R	1/15	Used
SHP03	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	C	ID	3/3	Used
		Code Name				
		050 Received				
		051 Cumulative Quantity Start				
Ref	Id	Element Name	Req	Type	Min/Max	Usage
SHP04	373	Date Description: Start Date expressed as CCYYMMDD	C	DT	8/8	Used
SHP06	373	Date Description: End Date expressed as CCYYMMDD	C	TM	4/8	Used

Syntax:

1. C0102 - If SHP01 is present, then all of SHP02 are required
2. L030405 - If SHP03 is present, then at least one of SHP04, SHP05 is required
3. C0403 - If SHP04 is present, then all of SHP03 are required
4. C0503 - If SHP05 is present, then all of SHP03 are required

Semantics:

1. SHP04 is the date shipped, delivered, received, or the cumulative quantity start date (as qualified by SHP03).
2. SHP06 is the cumulative quantity end date.

Comments:

1. The SHP segment is used to communicate shipment, delivery, or receipt information and may include discrete or cumulative quantities, dates, and times.
2. If SHP01 equals "02", "07", "08", "09", or "10" (indicating cumulative quantities), then SHP04 and SHP06 are required to identify the start and end dates of the quantity count.

REF**Reference Identification**

Pos: 150	Max: 12
Detail - Optional	
Loop: SHP	Elements: 3

User Option (Usage): Used

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		Code Name SI Shipper (Last Received)				
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

Syntax:

1. R0203 - At least one of REF02,REF03 is required

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Used

To transmit a hash total for a specific element in the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set	M	N0	1/6	Must use
CTT02	347	Hash Total	O	R	1/10	Used

Syntax:

1. P0304 - If either CTT03,CTT04 is present, then all are required
2. P0506 - If either CTT05,CTT06 is present, then all are required

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.