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Plex Systems

IMPLEMENTATION GUIDELINES FOR
ANSI X12 EDI CONVENTIONS

856 TRANSACTION SET
SHIP NOTICE
Version 004010
Revised August 24, 2021

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.

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
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

LOOP ID - HL					200000		
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

LOOP ID – HL/CLD					200000		
210	FOB	F.O.B. Related Instructions	O	1			Used

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

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

LOOP ID -HL					200000		
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 *Release Number* reference within Loop HL/CLD
10/14/2019	Added optional *DTM 094 qualifier* segment
12/6/2019	Added optional *RFF AN qualifier* segment
1/29/2020	Added clarification regarding BSN Purpose Codes 01 and 05
9/9/2020	Added 'MG' qualifier to LIN segment
08/24/2021	Corrected SE segment details

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	Must Use
		Description: Code uniquely identifying a Transaction Set				

Code	Name
856	Ship Notice Manifest

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN01	353	**Transaction Set Purpose Code**	M	ID	2/2	Must use

Description: Code identifying purpose of transaction set

NOTE: Although 01 and 05 are valid codes, there is no integrated or automated processing of transactions sent with these codes.

	Code	Name
	00	Original
X	01	Cancellation
X	05	Replacement

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN02	396	**Shipment Identification**	M	AN	1/30	Must use

Description: A unique control number assigned by the original shipper to identify a specific shipment. Not repeated when BSN01 = 00

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN03	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

Generated Date

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN04	337	**Time**	M	TM	4/8	Must use

Description: Time expressed in 24 hour clock time HHMM or HHMMSS or HHMMSSD

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Used

Description: To specify pertinent dates and times

Code	Name
011	Ship Date

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM02	373	**Date**	C	DT	8/8	Used

Description: CCYYMMDD

DTM03	337	**Time**	C	TM	4/8	Used

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)

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA01	737	**Measurement Reference ID Code** **Description:** code identifying the broad category to which a measurement applies	O	ID	2/2	Must Use

Code	Name
PD	Physical Dimensions

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA02	738	**Measurement Qualifier** **Description:** Code identifying a specific product or process characteristic to which a measurement applies	O	ID	1/3	Used

Code	Name
G	Gross Weight (Required)
N	Net Weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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 specifiy the carrier and sequence of routing and provide transit time information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD501	133	**Rouiting Sequence Code** **Description:** Code describing the relationship of a carrier to a specific shipment movement	O	ID	1/2	Must Use
		Code **Name** B Origin/Delivery Carrier				
TD502	66	**Identification Code Qualifier** **Description:** Code designating the system/method of code structure used for Identification Code	X	ID	1/2	Must Use
		Code 2 – Standard Carrier Alpha Code (SCAC)				
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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 seral 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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	C	AN	1/30	Used

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

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 whon communications should be directed.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER01	366	**Contact Function Code**	M	ID	2/2	Used
		Description: Code identifying the responsibility of the person named.				

Code	Name
SH	Shipper Contact

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER02	93	**Name**	O	AN	1/35	
		Description: Free-form name				
PER03	365	**Communications Number Qualifier**	X	ID	2/2	
		Description: Code identifying the type of communication number				

Code	Name
TE	Telephone

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB01	146	**Shipment method of payment**	M	ID	2/2	Used

         Description: Code identifying payment terms for transportation charges

Code	Name
CC	Collect
PP	Prepaid

N1 | Name

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

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User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code	Name
SU	Supplier/Manufacturer
ST	Ship To
SF	Ship From

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	C	AN	1/60	Used

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	C	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
01	D-U-N-S Number, Dun & Bradstreet
92	Assigned by Buyer or Buyer's Agent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	C	AN	2/80	Used

Description: Code identifying a party or other code

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

Code	Name
DK	Dock Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	C	AN	1/30	Used

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR01	98	**Entity Identifier Code** **Description:** Code identifying an organizational entity, a physical location/ property or an individual	M	ID	2/3	Must use

Code	Name
SE	Selling Party

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	1/3	Must use

Description: Code qualifying the Reference Identification

Code	Name
HC	Heat Code
LS	Bar-coded Serial Number – Master Unit

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	C	AN	1/10	Used

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.

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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. **I - Item**	M	ID	1/2	Must Use

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)	M	ID	2/2	Must use

Code	Name
BP	Buyer's Part Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)	O	ID	2/2	Used

Code	Name
EC	Engineering Change Level

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)	M	AN	2/2	Used

Code	Name
PO	Purchase Order Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)	O	ID	2/2	Used

Code	Name
PD	Product Description

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Code	**Name**
VP	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

Code	**Name**
PL	Purchase Order Line Number

LIN13	234	**Product/Service ID** **Description:** Identifying number for a product or service		X	AN	1/48	Used
LIN14	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

Code	**Name**
MG	Manufacturer's Part Number

LIN15	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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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: N**umeric 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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use
		Description: Code qualifying the Reference Identification				

Code	Name
DK	Dock Number
LF	Assembly Line Feed Location
DO	Delivery Order Number (RAN)
AN	Associated Purchase Order

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

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	1/3	Must use

Description: Code qualifying the Reference Identification

Code	Name
HC	Heat Code
LS	Bar-coded Serial Number
LT	Lot Number
KB	Beginning Kanban Number
KE	Ending Kanban Number
RE	Release Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	C	AN	1/10	Used

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.

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Used

Description: To specify pertinent dates and times

Code	Name
094	Manufacture Date

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM02	373	**Date**	C	DT	8/8	Used

Description: CCYYMMDD

DTM03	337	**Time**	C	TM	4/8	Used

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)

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items**	M	N0	1/6	Must use
		Description: Total number of line items in the transaction set				
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	**Number of Included Segments** **Description:** Total number of segments in the transaction set including ST and SE segments.	M	N0	1/10	Must use
SE02	329	**Transaction Set Control Number** **Description:** Identifying control number	M	AN	4/9	Must Use

Comments:

00.   SE is the last segment of each transaction set.