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856 Ship Notice/Manifest

Functional Group=SH

This X12 Transaction Set 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.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	ST	Transaction Set Header	M	1			Must use
0200	BSN	Beginning Segment for Ship Notice	M	1			Must use

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - HL					200000	C2/0100L	
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
1100	TD1	Carrier Details (Quantity and Weight)	M	1			Must use
1200	TD5	Carrier Details (Routing Sequence/Transit Time)	M	1			Must use
LOOP ID - TD3					1		
1300	TD3	Carrier Details (Equipment)	C	1		N2/1300	Must use
1500	REF	Reference Information	C	4		N2/1500	Used
2000	DTM	Date/Time Reference	M	2			Must use
2100	FOB	F.O.B. Related Instructions	O	1			Used
LOOP ID - N1					2		
2200	N1	Party Identification	M	1			Must use
2400	N3	Party Location	O	2			Used
2500	N4	Geographic Location	O	1			Used
LOOP ID - HL					200000	C2/0100L	
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
0500	PRF	Purchase Order Reference	M	1			Must use
1100	TD1	Carrier Details (Quantity and Weight)	O	1			Used
1500	REF	Reference Information	C	2			Must use
LOOP ID - HL					200000	C2/0100L	
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
1100	TD1	Carrier Details (Quantity and Weight)	O	20			Used
1900	MAN	Marks and Numbers Information	M	1			Must use
LOOP ID - HL					200000	C2/0100L	
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
0200	LIN	Item Identification	M	1			Must use

| 0300 | SN1 | Item Detail (Shipment) | M | 1 | | | Must use | ‖‖ |
| 0700 | PID | Product/Item Description | M | 4 | | | Must use | |

Summary:

Pos	**Id**	**Segment Name**	**Req**	**Max Use**	**Repeat**	**Notes**	**Usage**
0100	CTT	Transaction Totals	M	1		N3/0100	Must use
0200	SE	Transaction Set Trailer	M	1			Must use

Notes:

2/1300   Must send the TD3 segmnent when shipping LTL or common carrier.

2/1500   Must send BM (Bill of Lading) and CN (Carrier Pro Number) for truckload or LTL shipments

3/0100   Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Comments:

2/0100L   The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

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Christopher & Banks Note:

Revision History -

12/11/2008 -
        Added use of LIN14 and LIN15. This data should be sourced from the 850 PO segments SLN23 and SLN24 for Pre Pack Carton Code (packing instructions code)

05/20/2009 -
        Added an optional TD1 segment at the Pack Level to accomodate Weight.

ST Transaction Set Header

Pos: 0100	Max: 1
Heading - Mandatory	
Loop: N/A	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

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Christopher & Banks Note: *The number is sequentially assigned by the sender, starting with one within each functional group. For each functional group, the first transaction set control number will be 0001 and incremented by one for each additional transaction set within the group.*

Semantics:

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).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.   When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

BSN Beginning Segment for Ship Notice

Pos: 0200	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 5**

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

Code	Name
00	Original

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN02	396	**Shipment Identification**	M	AN	2/30	Must use

Description: A unique control number assigned by the original shipper to identify a specific shipment

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

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

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 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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN05	1005	**Hierarchical Structure Code**	M	ID	4/4	Must use

Description: Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set

Christopher & Banks Note: *Pick and Pack Structure - multiple SKUs within one carton*

Code	Name
0001	Shipment, Order, Packaging, Item

   Christopher & Banks Note:
     Pick and Pack Structure

Syntax Rules:

1. C0706 - If BSN07 is present, then BSN06 is required.

Semantics:

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.
3. BSN06 is limited to shipment related codes.

Comments:

1. BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Loop HL

Pos: 0100	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0100	HL	Hierarchical Level	M	1		Must use
1100	TD1	Carrier Details (Quantity and Weight)	M	1		Must use
1200	TD5	Carrier Details (Routing Sequence/Transit Time)	M	1		Must use
1300		Loop TD3	C		1	Must use
1500	REF	Reference Information	C	4		Used
2000	DTM	Date/Time Reference	M	2		Must use
2100	FOB	F.O.B. Related Instructions	O	1		Used
2200		Loop N1	M		2	Must use
0100		Loop HL	M		200000	Must use

HL   Hierarchical Level

Pos: 0100   Max: 1
Detail - Mandatory
Loop: HL   Elements: 2

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use

Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure

Christopher & Banks Note: *The value for this level (shipment) is 1.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use

Description: Code defining the characteristic of a level in a hierarchical structure

Code	Name
S	Shipment

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

TD1   Carrier Details (Quantity and Weight)

<table>
<tr><td>Pos: 1100</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Mandatory</td></tr>
<tr><td>Loop: HL</td><td>Elements: 5</td></tr>
</table>

User Option (Usage): Must use

To specify the transportation details relative to commodity, weight, and quantity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD101	103	**Packaging Code**	M	AN	3/5	Must use

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

Code	Name
CTN	Carton
PLT	Pallet
Code	**Name**
25	Corrugated or Solid
94	Wood

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD102	80	**Lading Quantity**	M	N0	1/7	Must use

Description: Number of units (pieces) of the lading commodity
Christopher & Banks Note: *The number of packages in the shipment as described in TD101*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD106	187	**Weight Qualifier**	M	ID	1/2	Must use

Description: Code defining the type of weight

Code	Name
G	Gross Weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD107	81	**Weight**	M	R	1/10	Must use

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD108	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must use

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code	Name
KG	Kilogram
LB	Pound

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.
3. C0607 - If TD106 is present, then TD107 is required.
4. P0708 - If either TD107 or TD108   is present, then the other is required.
5. P0910 - If either TD109 or TD110   is present, then the other is required.

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 1200	**Max: 1**
Detail - Mandatory	
Loop: HL	**Elements: 3**

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD502	66	**Identification Code Qualifier**	X	ID	1/2	Used

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

Code	Name
2	Standard Carrier Alpha Code (SCAC)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD503	67	**Identification Code**	X	AN	2/80	Used

Description: Code identifying a party or other code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD505	387	**Routing**	X	AN	1/35	Used

Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

Syntax Rules:
1. R0205 - At least one of TD502 or TD505 is required.
2. C0203 - If TD502 is present, then TD503 is required.
3. C0708 - If TD507 is present, then TD508 is required.
4. C1011 - If TD510 is present, then TD511 is required.
5. C1312 - If TD513 is present, then TD512 is required.
6. C1413 - If TD514 is present, then TD513 is required.
7. C1512 - If TD515 is present, then TD512 is required.

Semantics:
1. TD515 is the country where the service is to be performed.

Comments:
1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Loop TD3

Pos: 1300	**Repeat: 1**
Conditional	
Loop: TD3	**Elements: N/A**

User Option (Usage): Must use

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
1300	TD3	Carrier Details (Equipment)	C	1		Must use

TD3   Carrier Details (Equipment)

Pos: 1300	**Max: 1**
Detail - Conditional	
Loop: TD3	**Elements: 2**

User Option (Usage): Must use

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**	M	ID	2/2	Must use

Description: Code identifying type of equipment used for shipment

Code	Name
TL	Trailer (not otherwise specified)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD303	207	**Equipment Number**	M	AN	1/15	Must use

Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

Syntax Rules:

1. E0110 - Only one of TD301 or TD310 may be present.
2. C0203 - If TD302 is present, then TD303 is required.
3. C0405 - If TD304 is present, then TD305 is required.
4. P0506 - If either TD305 or TD306   is present, then the other is required.

Christopher & Banks Note:

This segment is used to specify the trailer number for a truckload shipment. This segment may be used also to specify the type of import container.

REF   Reference Information

Pos: 1500	Max: 4
Detail - Conditional	
Loop: HL	**Elements: 3**

User Option (Usage): Used

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
BM	Bill of Lading Number

Christopher & Banks Note:
 Mandatory if shipping via common carrier (Truckload or LTL).

CN	Carrier's Reference Number (PRO/Invoice)

Christopher & Banks Note:
 Mandatory if shipping via common carrier (Truckload or LTL).

P8	Pickup Reference Number

Christopher & Banks Note:
 If shipping via Parcel carriers (examples are   USPS or UPS or FedEx) then the P8 qualifier is Mandatory. This is where you show the Tracking Number.

SN	Seal Number

Christopher & Banks Note:
 Only used for Truckload Shipments

ZX	County Code

Christopher & Banks Note:
 Optional

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	M	AN	1/50	Must use

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF03	352	**Description**	X	AN	1/80	Used

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:
   1. R0203 - At least one of REF02 or REF03 is required.

Semantics:
   1. REF04 contains data relating to the value cited in REF02.

Christopher & Banks Note:
 At least P8 or CN is required.

DTM   Date/Time Reference

Pos: 2000	Max: 2
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Must use

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	Must use

Description: Code specifying type of date or time, or both date and time

Code	Name
011	Shipped
017	Estimated Delivery

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM02	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

Syntax Rules:
1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06   is present, then the other is required.

Christopher & Banks Note:
Both dates are required

FOB   F.O.B. Related Instructions

Pos: 2100	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

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	Must use

Description: Code identifying payment terms for transportation charges

Code	Name
CC	Collect
CF	Collect, Freight Credited Back to Customer
DF	Defined by Buyer and Seller
MX	Mixed
PC	Prepaid but Charged to Customer
PP	Prepaid (by Seller)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB02	309	**Location Qualifier**	X	ID	1/2	Used

Description: Code identifying type of location

Code	Name
DE	Destination (Shipping)
OR	Origin (Shipping Point)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB03	352	**Description**	O	AN	1/80	Used

Description: A free-form description to clarify the related data elements and their content
Christopher & Banks Note: *Free-form name of transportation responsibility location*

Syntax Rules:

1. C0302 - If FOB03 is present, then FOB02 is required.
2. C0405 - If FOB04 is present, then FOB05 is required.
3. C0706 - If FOB07 is present, then FOB06 is required.
4. C0809 - If FOB08 is present, then FOB09 is required.

Semantics:

1. FOB01 indicates which party will pay the carrier.
2. FOB02 is the code specifying transportation responsibility location.
3. FOB06 is the code specifying the title passage location.
4. FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

Loop N1

Pos: 2200	Repeat: 2
Mandatory	
Loop: N1	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
2200	N1	Party Identification	M	1		Must use
2400	N3	Party Location	O	2		Used
2500	N4	Geographic Location	O	1		Used

N1　Party Identification

Pos: 2200	Max: 1
Detail - Mandatory	
Loop: N1	**Elements: 4**

User Option (Usage): Must use

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
SF	Ship From
ST	Ship To

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

Description: Free-form name

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

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

Code	Name
92	Assigned by Buyer or Buyer's Agent

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

Description: Code identifying a party or other code

Christopher & Banks Note: *This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.*

Syntax Rules:

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

Christopher & Banks Note:

Both N1 loops are required, however N103 and N104 are only required for the Ship To N1 loop

N3   Party Location

Pos: 2400	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information**	M	AN	1/55	Must use
		Description: Address information				
N302	166	**Address Information**	O	AN	1/55	Used
		Description: Address information				

N4   Geographic Location

Pos: 2500	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	**State or Province Code**	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	**Postal Code**	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	**Country Code**	X	ID	2/3	Used
		Description: Code identifying the country				

Syntax Rules:

1. E0207 - Only one of N402 or N407 may be present.
2. C0605 - If N406 is present, then N405 is required.
3. C0704 - If N407 is present, then N404 is required.

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.

Loop HL

Pos: 0100	**Repeat: 200000**
	Mandatory
Loop: HL	**Elements: N/A**

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0100	HL	Hierarchical Level	M	1		Must use
0500	PRF	Purchase Order Reference	M	1		Must use
1100	TD1	Carrier Details (Quantity and Weight)	O	1		Used
1500	REF	Reference Information	C	2		Must use
0100		Loop HL	M		200000	Must use

HL   Hierarchical Level

Pos: 0100	**Max: 1**
Detail - Mandatory	
Loop: HL	**Elements: 3**

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use

Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure

HL02	734	**Hierarchical Parent ID Number**	M	AN	1/12	Must use

Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use

Description: Code defining the characteristic of a level in a hierarchical structure

Code	Name
O	Order

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

PRF   Purchase Order Reference

Pos: 0500	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 1

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**	M	AN	1/22	Must use

Description: Identifying number for Purchase Order assigned by the orderer/purchaser
Christopher & Banks Note: *Retailer's original purchase order number*

Semantics:

1. PRF04 is the date assigned by the purchaser to purchase order.

TD1 Carrier Details (Quantity and Weight)

Pos: 1100	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

To specify the transportation details relative to commodity, weight, and quantity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD101	103	**Packaging Code**	M	AN	3/5	Must use

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

Code	Name
CTN	Carton
PLT	Pallet

Code	Name
25	Corrugated or Solid
94	Wood

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD102	80	**Lading Quantity**	M	N0	1/7	Must use

Description: Number of units (pieces) of the lading commodity

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.
3. C0607 - If TD106 is present, then TD107 is required.
4. P0708 - If either TD107 or TD108   is present, then the other is required.
5. P0910 - If either TD109 or TD110   is present, then the other is required.

Christopher & Banks Note:
This segment, at the order level, is used to specify the number and type of shipping containers in the order.

REF   Reference Information

Pos: 1500	**Max: 2**
Detail - Conditional	
Loop: HL	**Elements: 2**

User Option (Usage): Must use

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
19	Division Identifier (Optional)
IA	Internal Vendor Number (Mandatory)

> **Christopher & Banks Note:**
> *Identification number assigned to the vendor, by the retailer, for use within the retailer's system*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	X	AN	1/50	Must use

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

Syntax Rules:

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

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Christopher & Banks Note:

Notes: Vendor number is mandatory, Division number is optional

Loop HL

Pos: 0100	**Repeat: 200000**
Mandatory	
Loop: HL	**Elements: N/A**

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0100	HL	Hierarchical Level	M	1		Must use
1100	TD1	Carrier Details (Quantity and Weight)	O	20		Used
1900	MAN	Marks and Numbers Information	M	1		Must use
0100		Loop HL	M		200000	Must use

HL   Hierarchical Level

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: HL	**Elements: 3**

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use

Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure

HL02	734	**Hierarchical Parent ID Number**	M	AN	1/12	Must use

Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use

Description: Code defining the characteristic of a level in a hierarchical structure

Code	Name
P	Pack
T	Shipping Tare

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Christopher & Banks Note:
Suppliers can send either Tare or Pack but not both.

TD1   Carrier Details (Quantity and Weight)

Pos: 1100	**Max: 20**
Detail - Optional	
Loop: HL	**Elements: 2**

User Option (Usage): Used

To specify the transportation details relative to commodity, weight, and quantity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD107	81	**Weight**	X	R	1/10	Used

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD108	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Used

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code	Name
LB	Pound

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.
3. C0607 - If TD106 is present, then TD107 is required.
4. P0708 - If either TD107 or TD108   is present, then the other is required.
5. P0910 - If either TD109 or TD110   is present, then the other is required.

MAN   Marks and Numbers Information

Pos: 1900   **Max: 1**
Detail - Mandatory
Loop: HL   **Elements: 2**

User Option (Usage): Must use

To indicate identifying marks and numbers for shipping containers

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN01	88	**Marks and Numbers Qualifier**	M	ID	1/2	Must use

Description: Code specifying the application or source of Marks and Numbers (87)

Code	Name
GM	EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier

Christopher & Banks Note:
This is a twenty-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that includes the two digit application identifier. The symbology code and the modulo 103 check digit are not included.

MAN02	87	**Marks and Numbers**	M	AN	1/48	Must use

Description: Marks and numbers used to identify a shipment or parts of a shipment

Syntax Rules:

1. P0405 - If either MAN04 or MAN05   is present, then the other is required.
2. C0605 - If MAN06 is present, then MAN05 is required.

Semantics:

1. MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
2. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
3. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

Comments:

1. When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
2. MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.
3. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

Loop HL

Pos: 0100	**Repeat: 200000**
Mandatory	
Loop: HL	**Elements: N/A**

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0100	HL	Hierarchical Level	M	1		Must use
0200	LIN	Item Identification	M	1		Must use
0300	SN1	Item Detail (Shipment)	M	1		Must use
0700	PID	Product/Item Description	M	4		Must use

HL   Hierarchical Level

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: HL	**Elements: 3**

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use

> **Description:** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL02	734	**Hierarchical Parent ID Number**	M	AN	1/12	Must use

> **Description:** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use

> **Description:** Code defining the characteristic of a level in a hierarchical structure

Code	Name
I	Item

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

LIN

Item Identification

Pos: 0200	**Max: 1**
Detail - Mandatory	
Loop: HL	**Elements: 15**

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**	M	AN	1/20	Must use

Description: Alphanumeric characters assigned for differentiation within a transaction set
User Note 1: *Must match corresponding line number from PO101 from 850.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN02	235	**Product/Service ID Qualifier**	M	ID	2/2	Must use

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code	Name
SK	Stock Keeping Unit (SKU)

Christopher & Banks Note:
Long SKU

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN03	234	**Product/Service ID**	M	AN	1/48	Must use

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN04	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code	Name
CB	Buyer's Catalog Number

Christopher & Banks Note:
Short SKU

Code	Name
UP	UCC - 12
VN	Vendor's (Seller's) Item Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN05	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN06	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code	Name
CB	Buyer's Catalog Number

Christopher & Banks Note:
Short SKU

Code	Name
UP	UCC - 12
VN	Vendor's (Seller's) Item Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN07	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN08	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code	Name
CB	Buyer's Catalog Number

Christopher & Banks Note:
Short SKU

Code	Name
UP	UCC - 12
VN	Vendor's (Seller's) Item Number

LIN09	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

LIN10	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code	Name
PG	Packaging Specification Number

LIN11	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

LIN12	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code	Name
C3	Classification

LIN13	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

LIN14	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code	Name
JP	Package Type Code

Christopher & Banks Note:
This should source from the 850 SLN24, when SLN23=JP

LIN15	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service
Christopher & Banks Note: *This should source from the 850 SLN24, when SLN23=JP*

Syntax Rules:

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

13. P2829 - If either LIN28 or LIN29   is present, then the other is required.
14. P3031 - If either LIN30 or LIN31   is present, then the other is 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 (Shipment)

Pos: 0300 Max: 1
Detail - Mandatory
Loop: HL Elements: 2

User Option (Usage): Must use

To specify line-item detail relative to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SN102	382	**Number of Units Shipped**	M	R	1/10	Must use

Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SN103	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must use

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code	Name
AS	Assortment
EA	Each

Syntax Rules:

1. P0506 - If either SN105 or SN106   is present, then the other is required.

Semantics:

1. SN101 is the ship notice line-item identification.
2. SN105 is quantity ordered.

Comments:

1. SN103 defines the unit of measurement for both SN102 and SN104.

PID   Product/Item Description

Pos: 0700	**Max: 4**
Detail - Mandatory	
Loop: HL	**Elements: 3**

User Option (Usage): Must use

To describe a product or process in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	**Item Description Type**	M	ID	1/1	Must use

Description: Code indicating the format of a description

Code	Name
F	Free-form

> **Christopher & Banks Note:**
> *The description will be found in PID05.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID02	750	**Product/Process Characteristic Code**	O	ID	2/3	Used

Description: Code identifying the general class of a product or process characteristic

Code	Name
08	Product (Mandatory)
74	Vendor size description (Optional)
75	Buyer's Color Description (Optional)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID05	352	**Description**	X	AN	1/80	Used

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:
1. C0403 - If PID04 is present, then PID03 is required.
2. R0405 - At least one of PID04 or PID05 is required.
3. C0703 - If PID07 is present, then PID03 is required.
4. C0804 - If PID08 is present, then PID04 is required.
5. C0905 - If PID09 is present, then PID05 is required.

Semantics:
1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Comments:
1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

Christopher & Banks Note:
PID02=08 is mandatory, all others are optional

CTT   Transaction Totals

Pos: 0100	**Max: 1**
Summary - Mandatory	
Loop: N/A	**Elements: 1**

User Option (Usage): Must use

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
        Christopher & Banks Note: *The number of HL segments present in the transaction set*

Syntax Rules:

    1. P0304 - If either CTT03 or CTT04   is present, then the other is required.
    2. P0506 - If either CTT05 or CTT06   is present, then the other is required.

Comments:

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

SE   **Transaction Set Trailer**

Pos: 0200	**Max: 1**
Summary - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	**Number of Included Segments**	M	N0	1/10	Must use

Description: Total number of segments included in a transaction set including ST and SE segments

SE02	329	**Transaction Set Control Number**	M	AN	4/9	Must use

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set
Christopher & Banks Note: *This must be the same number as is in the ST segment (ST02) for the transaction set.*

Comments:

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