856 Ship Notice/Manifest

X12/V4060/856: 856 Ship Notice/Manifest

Modified: 01/17/2005

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.

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

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)	O	20			Must use
1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			Must use
1500	REF	Reference Information	O	>1			Used
2000	DTM	Date/Time Reference	O	10			Used
LOOP ID - N1					**200**		
2200	N1	Party Identification	O	1			Must use
2400	N3	Party Location	O	2			Used
2500	N4	Geographic Location	O	1			Must use
LOOP ID - N1					**200**		
2200	N1	Party Identification	O	1			Must use
2400	N3	Party Location	O	2			Must use
2500	N4	Geographic Location	O	1			Must use
LOOP ID - N1					**200**		
2200	N1	Party Identification	O	1			Used
2400	N3	Party Location	O	2			Used
2500	N4	Geographic Location	O	1			Used

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
0500	PRF	Purchase Order Reference	O	1			Must use
1100	TD1	Carrier Details (Quantity and Weight)	O	20			Used
1900	MAN	Marks and Numbers Information	O	>1			Used
LOOP ID - HL					**200000**	**C2/0100L**	
0100	HL	Hierarchical Level	O	1		C2/0100	Used
1900	MAN	Marks and Numbers Information	O	>1			Used
LOOP ID - HL					**200000**	**C2/0100L**	
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
0200	LIN	Item Identification	O	1			Must use
0300	SN1	Item Detail (Shipment)	O	1			Must use
0400	SLN	Subline Item Detail	O	1000			Used
0600	PO4	Item Physical Details	O	1			Used
0700	PID	Product/Item Description	O	200			Must use

Summary:

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

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

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.

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

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

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

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

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

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

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

The Home Depot Requirements:

Important Information:

This version of the ASN allows for the following variations:

1. *1 Purchase Order per ASN.*
2. *Multiple Purchase Orders per ASN to a single location.*
3. *1 ASN for each Small Package Carrier Assigned Tracking Number (where applicable).*

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier** **Description:** Code identifying the type of information in the Authorization Information **All valid standard codes are used.**	M	ID	2/2	Must use
ISA02	I02	**Authorization Information** **Description:** Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M	AN	10/10	Must use
ISA03	I03	**Security Information Qualifier** **Description:** Code identifying the type of information in the Security Information **All valid standard codes are used.**	M	ID	2/2	Must use
ISA04	I04	**Security Information** **Description:** This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	M	AN	10/10	Must use
ISA05	I05	**Interchange ID Qualifier** **Description:** Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified **All valid standard codes are used.**	M	ID	2/2	Must use
ISA06	I06	**Interchange Sender ID** **Description:** Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	M	AN	15/15	Must use
ISA07	I05	**Interchange ID Qualifier** **Description:** Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		Code Name 14 Duns Plus Suffix				
ISA08	I07	**Interchange Receiver ID** **Description:** Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them **Code Name** 0722717110100 US Production 072271711CAP Canada Production	M	AN	15/15	Must use
ISA09	I08	**Interchange Date** **Description:** Date of the interchange	M	DT	6/6	Must use
ISA10	I09	**Interchange Time** **Description:** Time of the interchange	M	TM	4/4	Must use
ISA11	I65	**Repetition Separator** **Description:** Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator **Code Name** : Colon @ At] Bracket ^ Carrot | Pipe **The Home Depot Requirements:** *This separator can be any non-alpha-numeric character that is also not used as an element separator, segment terminator or elsewhere in the data. If you need your Repetition Separator added to the list to complete testing, please call Home Depot's Electronic Partnership Development Team at 770-433-8211 x10036.*	M		1/1	Must use
ISA12	I11	**Interchange Control Version Number** **Description:** Code specifying the version number of the interchange control segments **Code Name** 00406 Standards Approved for Publication by ASC X12 Procedures Review Board through October 2002	M	ID	5/5	Must use
ISA13	I12	**Interchange Control Number**	M	N0	9/9	Must use

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		Description: A control number assigned by the interchange sender				
ISA14	I13	**Acknowledgment Requested**	M	ID	1/1	Must use
		Description: Code indicating sender's request for an interchange acknowledgment **All valid standard codes are used.**				
ISA15	I14	**Interchange Usage Indicator**	M	ID	1/1	Must use
		Description: Code indicating whether data enclosed by this interchange envelope is test, production or information **All valid standard codes are used.**				
ISA16	I15	**Component Element Separator**	M		1/1	Must use
		Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator				

GS Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

To indicate the beginning of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code** **Description:** Code identifying a group of application related transaction sets **Code** **Name** SH Ship Notice/Manifest (856)	M	ID	2/2	Must use
GS02	142	**Application Sender's Code** **Description:** Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	**Application Receiver's Code** **Description:** Code identifying party receiving transmission; codes agreed to by trading partners **Code** **Name** 072271711 US Production 072271711C Canada Production	M	AN	2/15	Must use
GS04	373	**Date** **Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M	DT	8/8	Must use
GS05	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)	M	TM	4/8	Must use
GS06	28	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	**Responsible Agency Code** **Description:** Code identifying the issuer of the standard; this code is used in	M	ID	1/2	Must use

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		conjunction with Data Element 480 **All valid standard codes are used.**				
GS08	480	**Version / Release / Industry Identifier Code** **Description:** Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed	M	AN	1/12	Must use

Code	Name
004060	Standards Approved for Publication by ASC X12 Procedures Review Board through October 2002

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

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** **Description:** Code uniquely identifying a Transaction Set **Code Name** 856 Ship Notice/Manifest	M	ID	3/3	Must use
ST02	329	**Transaction Set Control Number** **Description:** 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	Must use

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** **Description:** Code identifying purpose of transaction set **Code Name** 14 Advance Notification	M	ID	2/2	Must use
BSN02	396	**Shipment Identification** **Description:** A unique control number assigned by the original shipper to identify a specific shipment	M	AN	2/30	Must use
BSN03	373	**Date** **Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M	DT	8/8	Must use
BSN04	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)	M	TM	4/8	Must use
BSN05	1005	**Hierarchical Structure Code** **Description:** Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set **Code Name** 0002 Shipment, Order, Item, Packaging	O	ID	4/4	Used

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)	O	20		Must use
1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		Must use
1500	REF	Reference Information	O	>1		Used
2000	DTM	Date/Time Reference	O	10		Used
2200		Loop N1	O		200	Must use
2200		Loop N1	O		200	Must use
2200		Loop N1	O		200	Used

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** **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 higher 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 **Code** **Name** S Shipment	M	ID	1/2	Must use

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)

Pos: 1100	Max: 20
Detail - Optional	
Loop: HL	Elements: 5

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** **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** PCS Pieces	O	AN	3/5	Used
TD102	80	**Lading Quantity** **Description:** Number of units (pieces) of the lading commodity	X	N0	1/7	Used
TD106	187	**Weight Qualifier** **Description:** Code defining the type of weight **Code Name** A3 Shippers Weight	O	ID	1/2	Used
TD107	81	**Weight** **Description:** Numeric value of weight	X	R	1/10	Used
TD108	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 **All valid standard codes are used.**	X	ID	2/2	Used

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.

Comments:

1. If multiple POs are contained on a single (1) ASN, this is the weight of the entire shipment.
2. If a single (1) PO is contained on the ASN, this is the weight of the PO being shipped. Likewise, this weight will also be provided in the HL - Order loop.

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 1200	Max: 12
Detail - Optional	
Loop: HL	Elements: 4

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** **Description:** Code designating the system/method of code structure used for Identification Code (67) **Code Name** 2 Standard Carrier Alpha Code (SCAC)	X	ID	1/2	Used
TD503	67	**Identification Code** **Description:** Code identifying a party or other code	X	AN	2/80	Used
TD505	387	**Routing** **Description:** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	X	AN	1/35	Used
TD506	368	**Shipment/Order Status Code** **Description:** Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction **Code Name** CC Shipment Complete on (Date)	X	ID	2/2	Used

Syntax Rules:

1. R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 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.

REF Reference Information

Pos: 1500	Max: >1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification **Code** **Name** BM Bill of Lading Number CN Carrier's Reference Number (PRO/Invoice)	M	ID	2/3	Must use
REF02	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/50	Used

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.

DTM Date/Time Reference

Pos: 2000	Max: 10
Detail - Optional	
Loop: HL	Elements: 2

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** **Description:** Code specifying type of date or time, or both date and time **Code Name** 011 Shipped	M	ID	3/3	Must use
DTM02	373	**Date** **Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X	DT	8/8	Used

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.

Loop N1

Pos: 2200	Repeat: 200
Optional	
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	O	1		Must use
2400	N3	Party Location	O	2		Used
2500	N4	Geographic Location	O	1		Must use

N1 Party Identification

Pos: 2200	Max: 1
Detail - Optional	
Loop: N1	Elements: 2

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** **Description:** Code identifying an organizational entity, a physical location, property or an individual **Code Name** OB Ordered By	M	ID	2/3	Must use
N102	93	**Name** **Description:** Free-form name	X	AN	1/60	Must use

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.

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: 6

User Option (Usage): Must use

To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name** **Description:** Free-form text for city name	O	AN	2/30	Must use
N402	156	**State or Province Code** **Description:** Code (Standard State/Province) as defined by appropriate government agency	X	ID	2/2	Must use
N403	116	**Postal Code** **Description:** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Must use
N404	26	**Country Code** **Description:** Code identifying the country	X	ID	2/3	Used
N405	309	**Location Qualifier** **Description:** Code identifying type of location **The Home Depot Requirements:** *The N405 and N406 are used when the N101 contains the OB qualifier.* **Code Name** SN Store Number	X	ID	1/2	Must use
N406	310	**Location Identifier** **Description:** Code which identifies a specific location **The Home Depot Requirements:** *The N405 and N406 are used when the N101 contains the OB qualifier.* *The N406 should contain the 4 digit Home Depot store number.*	O	AN	1/30	Must use

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 N1

Pos: 2200	Repeat: 200
Optional	
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	O	1		Must use
2400	N3	Party Location	O	2		Must use
2500	N4	Geographic Location	O	1		Must use

N1 Party Identification

Pos: 2200	Max: 1
Detail - Optional	
Loop: N1	Elements: 2

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** **Description:** Code identifying an organizational entity, a physical location, property or an individual **Code** **Name** SH Shipper	M	ID	2/3	Must use
N102	93	**Name** **Description:** Free-form name	X	AN	1/60	Must use

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.

N3 Party Location

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

User Option (Usage): Must use

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): Must use

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**	X	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 N1

Pos: 2200	Repeat: 200
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Used

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	O	1		Used
2400	N3	Party Location	O	2		Used
2500	N4	Geographic Location	O	1		Used

N1 Party Identification

Pos: 2200	Max: 1
Detail - Optional	
Loop: N1	Elements: 2

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** **Description:** Code identifying an organizational entity, a physical location, property or an individual **Code** **Name** SF Ship From ST Ship To	M	ID	2/3	Must use
N102	93	**Name** **Description:** Free-form name	X	AN	1/60	Used

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.

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**	X	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	O	1		Must use
1100	TD1	Carrier Details (Quantity and Weight)	O	20		Used
1900	MAN	Marks and Numbers Information	O	>1		Used

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** **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 higher 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 **Code** **Name** O Order	M	ID	1/2	Must use

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 - Optional	
Loop: HL	Elements: 2

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 orderer/purchaser	M	AN	1/22	Must use
PRF04	373	**Date** **Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O	DT	8/8	Used

Semantics:

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

TD1 Carrier Details (Quantity and Weight)

Pos: 1100	Max: 20
Detail - Optional	
Loop: HL	Elements: 3

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
TD106	187	**Weight Qualifier** **Description:** Code defining the type of weight **Code Name** A3 Shippers Weight	O	ID	1/2	Used
TD107	81	**Weight** **Description:** Numeric value of weight	X	R	1/10	Used
TD108	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 **Code Name** KG Kilogram LB Pound	X	ID	2/2	Used

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.

Comments:

1. This is the weight of the PO contained within the HL - Order loop.
2. If multiple POs are contained on the ASN, the weight will be provided for each PO within the HL - Order loop.
3. The weight of the entire shipment (all Purchase Orders) will be contained in the TD1 segment at the HL- S shipment level.

The Home Depot Requirements:

The PO Weight (TD106, TD106 & TD108) is REQUIRED for ALL Transit Facility shipments.

If a supplier shipping Direct to Store shipments is utilizing 1 ASN map to support both (1) Transit Facility and (2) Direct to Store shipments, then this segment may be provided on the ASN.

MAN Marks and Numbers Information

Pos: 1900	Max: >1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

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** **Description:** Code specifying the application or source of Marks and Numbers (87) **Code Name** CP Carrier-Assigned Package ID Number	M	ID	1/2	Must use
MAN02	87	**Marks and Numbers** **Description:** Marks and numbers used to identify a shipment or parts of a shipment **The Home Depot Requirements:** *The carrier assigned tracking number/package number for the carton shipped. The MAN segment will be repeated for each tracking/package number associated with the PO.*	M	AN	1/48	Must use

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.

The Home Depot Requirements:

The Carrier Assigned Tracking Number is REQUIRED for ALL Direct to Store Small Package shipments and is

Optional for Transit Facility shipments.

If a Small Package Direct to Store supplier is utilizing 1 ASN map to support both (1) Transit Facility shipments and (2) Direct to Store small package shipments, then this segment may be provided on all ASNs.

The small package carrier assigned tracking number provided on the ASN MUST match the physical barcode provided on the product.

The MAN segment will be repeated for each tracking/package number associated with the PO.

Options for providing ASNs for small package shipments:

1. *1 ASN per PO.*
2. *Multiple ASNs per PO.*
3. *1 ASN for each tracking number.*

Loop HL

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

User Option (Usage): Used

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	O	1		Used
1900	MAN	Marks and Numbers Information	O	>1		Used

HL Hierarchical Level

Pos: 0100	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

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** **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 higher 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 **Code Name** T Shipping Tare	M	ID	1/2	Must use

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.

The Home Depot Requirements:

The HL - T (Tare) and corresponding MAN segment for Pallet and Loose Unit Barcode are REQUIRED for all Transit Facility shipments, it is Optional for Direct to Store shipments.

If a Small Package Direct to Store supplier is utilizing 1 ASN map to support both (1) Transit Facility shipments and (2) Direct to Store small package shipments, then this segment may be provided on all ASNs.

MAN Marks and Numbers Information

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

User Option (Usage): Used

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** **Description:** Code specifying the application or source of Marks and Numbers (87) **Code** **Name** GM SSCC-18 and Application Identifier **The Home Depot Requirements:** *The GM qualifier represents the UCC128 level and/or loose unit barcode.*	M	ID	1/2	Must use
MAN02	87	**Marks and Numbers** **Description:** Marks and numbers used to identify a shipment or parts of a shipment **The Home Depot Requirements:** *The UCC128 provided in the MAN02 should represent the pallet level and/or loose unit barcode.* *The HL - I Item loop(s) within the HL - T (Tare) loop should represent all of the merchandise items that are contained on a specific pallet based on the barcode identified in the MAN02.*	M	AN	1/48	Must use

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.

The Home Depot Requirements:

The Pallet and Loose Unit Barocde (MAN01-MAN02) is REQUIRED for ALL Transit Facility shipments.

If a supplier shipping to the Transit Facility is utilizing 1 ASN map to support both (1) Transit Facility and (2) Direct to Store shipments, then this segment may be provided on the ASN.

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	O	1		Must use
0300	SN1	Item Detail (Shipment)	O	1		Must use
0400	SLN	Subline Item Detail	O	1000		Used
0600	PO4	Item Physical Details	O	1		Used
0700	PID	Product/Item Description	O	200		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** **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 higher 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 **Code Name** I Item	M	ID	1/2	Must use

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 - Optional	
Loop: HL	Elements: 7

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	Must use
LIN02	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) **Code Name** SK Stock Keeping Unit (SKU) UP UCC - 12 **Description:** Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.) VP Vendor's (Seller'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) **Code Name** SK Stock Keeping Unit (SKU) UP UCC - 12 **Description:** Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.) VP Vendor's (Seller's) Part Number	X	ID	2/2	Must use
LIN05	234	**Product/Service ID** **Description:** Identifying number for a product or service	X	AN	1/48	Must use
LIN06	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Must use

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		Code Name SK Stock Keeping Unit (SKU) UP UCC - 12 **Description:** Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.) VP Vendor's (Seller's) Part Number				
LIN07	234	**Product/Service ID** **Description:** Identifying number for a product or service	X	AN	1/48	Must use

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 - Optional	
Loop: HL	Elements: 3

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:** Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Must use
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 **All valid standard codes are used.**	M	ID	2/2	Must use

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.

SLN Subline Item Detail

Pos: 0400	Max: 1000
Detail - Optional	
Loop: HL	Elements: 5

User Option (Usage): Used

To specify product subline detail item data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SLN01	350	**Assigned Identification**	M	AN	1/20	Must use
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
SLN03	662	**Relationship Code**	M	ID	1/1	Must use
		Description: Code indicating the relationship between entities				
		Code Name I Included				
SLN04	380	**Quantity**	X	R	1/15	Used
		Description: Numeric value of quantity				
SLN05	C001	**Composite Unit of Measure**	X	Comp		Used
		Description: To identify a composite unit of measure (See Figures Appendix for examples of use)				
	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 **All valid standard codes are used.**				
	1018	**Exponent**	O	R	1/15	Used
		Description: Power to which a unit is raised				
	649	**Multiplier**	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
	355	**Unit or Basis for Measurement Code**	O	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 **All valid standard codes are used.**				
	1018	**Exponent**	O	R	1/15	Used
		Description: Power to which a unit is raised				
	649	**Multiplier**	O	R	1/10	Used

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		Description: Value to be used as a multiplier to obtain a new value				
	355	**Unit or Basis for Measurement Code**	O	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 **All valid standard codes are used.**				
	1018	**Exponent**	O	R	1/15	Used
		Description: Power to which a unit is raised				
	649	**Multiplier**	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
	355	**Unit or Basis for Measurement Code**	O	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 **All valid standard codes are used.**				
	1018	**Exponent**	O	R	1/15	Used
		Description: Power to which a unit is raised				
	649	**Multiplier**	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
	355	**Unit or Basis for Measurement Code**	O	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 **All valid standard codes are used.**				
	1018	**Exponent**	O	R	1/15	Used
		Description: Power to which a unit is raised				
	649	**Multiplier**	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
SLN06	212	**Unit Price**	X	R	1/17	Used
		Description: Price per unit of product, service, commodity, etc.				

Syntax Rules:

1. P0405 - If either SLN04 or SLN05 is present, then the other is required.
2. C0706 - If SLN07 is present, then SLN06 is required.
3. C0806 - If SLN08 is present, then SLN06 is required.
4. P0910 - If either SLN09 or SLN10 is present, then the other is required.

5. P1112 - If either SLN11 or SLN12 is present, then the other is required.
6. P1314 - If either SLN13 or SLN14 is present, then the other is required.
7. P1516 - If either SLN15 or SLN16 is present, then the other is required.
8. P1718 - If either SLN17 or SLN18 is present, then the other is required.
9. P1920 - If either SLN19 or SLN20 is present, then the other is required.
10. P2122 - If either SLN21 or SLN22 is present, then the other is required.
11. P2324 - If either SLN23 or SLN24 is present, then the other is required.
12. P2526 - If either SLN25 or SLN26 is present, then the other is required.
13. P2728 - If either SLN27 or SLN28 is present, then the other is required.

Semantics:

1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

PO4 Item Physical Details

Pos: 0600	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

To specify the physical qualities, packaging, weights, and dimensions relating to the item

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO401	356	**Pack**	O	N0	1/6	Used
		Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container				
PO402	357	**Size**	X	R	1/8	Used
		Description: Size of supplier units in pack				
PO403	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 **All valid standard codes are used.**				

Syntax Rules:

1. P0203 - If either PO402 or PO403 is present, then the other is required.
2. C0506 - If PO405 is present, then PO406 is required.
3. P0607 - If either PO406 or PO407 is present, then the other is required.
4. P0809 - If either PO408 or PO409 is present, then the other is required.
5. C1013 - If PO410 is present, then PO413 is required.
6. C1113 - If PO411 is present, then PO413 is required.
7. C1213 - If PO412 is present, then PO413 is required.
8. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
9. C1716 - If PO417 is present, then PO416 is required.
10. C1804 - If PO418 is present, then PO404 is required.

Semantics:

1. PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
2. PO416 is the package identifier or the beginning package identifier in a range of identifiers.
3. PO417 is the ending package identifier in a range of identifiers.
4. PO418 is the number of packages in this layer.

Comments:

1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the unit of measure of the "Size" identified in the PO402. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
2. PO413 defines the unit of measure for PO410, PO411, and PO412.

PID Product/Item Description

Pos: 0700	Max: 200
Detail - Optional	
Loop: HL	Elements: 2

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** **Description:** Code indicating the format of a description **All valid standard codes are used.**	M	ID	1/1	Must use
PID05	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	X	AN	1/80	Must use

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.

CTT Transaction Totals

Pos: 0100	Max: 1
Summary - Optional	
Loop: N/A	Elements: 2

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** **Description:** Total number of line items in the transaction set **The Home Depot Requirements:** *Number of HL Loops in transaction*	M	N0	1/6	Must use
CTT02	347	**Hash Total** **Description:** Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. --------- 1855 Hash Total **The Home Depot Requirements:** *The Sum on SN102 elements (units shipped)*	O	R	1/10	Must use

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** **Description:** Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	**Transaction Set Control Number** **Description:** 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	Must use

Comments:

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

GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

To indicate the end of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included** **Description:** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	Must use
GE02	28	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	M	N0	1/9	Must use

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	I16	**Number of Included Functional Groups**	M	N0	1/5	Must use
		Description: A count of the number of functional groups included in an interchange				
IEA02	I12	**Interchange Control Number**	M	N0	9/9	Must use
		Description: A control number assigned by the interchange sender				

Table of Contents

856	Ship Notice/Manifest	2
ISA	Interchange Control Header	5
GS	Functional Group Header	8
ST	Transaction Set Header	10
BSN	Beginning Segment for Ship Notice	11
HL	Loop HL	13
HL	Hierarchical Level	14
TD1	Carrier Details (Quantity and Weight)	15
TD5	Carrier Details (Routing Sequence/Transit Time)	16
REF	Reference Information	18
DTM	Date/Time Reference	19
N1	Loop N1	20
N1	Party Identification	21
N3	Party Location	22
N4	Geographic Location	23
N1	Loop N1	25
N1	Party Identification	26
N3	Party Location	27
N4	Geographic Location	28
N1	Loop N1	29
N1	Party Identification	30
N3	Party Location	31
N4	Geographic Location	32
HL	Loop HL	33
HL	Hierarchical Level	34
PRF	Purchase Order Reference	35
TD1	Carrier Details (Quantity and Weight)	36
MAN	Marks and Numbers Information	37
HL	Loop HL	39
HL	Hierarchical Level	40
MAN	Marks and Numbers Information	41
HL	Loop HL	43
HL	Hierarchical Level	44
LIN	Item Identification	45
SN1	Item Detail (Shipment)	47
SLN	Subline Item Detail	48
PO4	Item Physical Details	51
PID	Product/Item Description	52
CTT	Transaction Totals	53
SE	Transaction Set Trailer	54
GE	Functional Group Trailer	55
IEA	Interchange Control Trailer	56