The Shipment and Billing Notice - 857

The Shipment and Billing Notice *(857)* is to be used in those cases where a supplier and distributor agree that adequate controls and accuracy in picking and shipping exist so that two separate transmissions, one Ship Notice/Manifest and one Invoice, are not required. The information contained in the combined transaction set includes all information contained in the separate transaction sets. However, because there is redundancy in the separate Ship Notice/Manifest and Invoice transaction sets, trading partners electing to use the combined transaction set will exchange fewer characters of information. This reduction in characters transmitted will reduce EDI costs and minimize the opportunity for lost transmissions.

While the Ship Notice/Manifest is routinely sent at the time the shipment is given to a carrier, the combined transaction set cannot be sent until invoicing is complete. Therefore suppliers and distributors intending to use the combined transaction set should verify:

- **the supplier's invoicing programs will execute promptly after shipment of the product;**
- **the product transit time isn't less than the time for the supplier to prepare and send the combined transaction set and the distributor to receive and process it; and,**
- **shipment and information accuracy is sufficiently high that discrepancies in receiving won't negate the value of EDI.**

The business procedures incorporating the Shipment and Billing Notice would follow these steps:

1. **Supplier picks and ships the ordered products to the customer;**
2. **Supplier's systems update the customer order file and create the invoice information;**
3. **Supplier creates and sends the Shipment and Billing Notice EDI transaction to the EDI network;**
4. **Customer receives the transaction set from the EDI network and:**
   a. **updates the purchase order file for changes in order quantities, superseded parts, and canceled line items, and**
   b. **adds the invoice to the Accounts Payable file to await matching with the purchase order and receiver data;**

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5. When the shipment is received, the customer verifies the shipment contents, updates the purchase order with received quantities, stocks the products, and prepares the receiving information for accounts payable purposes; and,
6. After matching the receiver, purchase order and invoice information, the supplier payment is scheduled.

For more information please refer to the ASC X12 standards manuals available from the Data Interchange Standards Association (DISA). DISA is located at 1800 Diagonal Drive, Suite 355, Alexandria, VA 22314-2852, and may be called at 703-548-7005.

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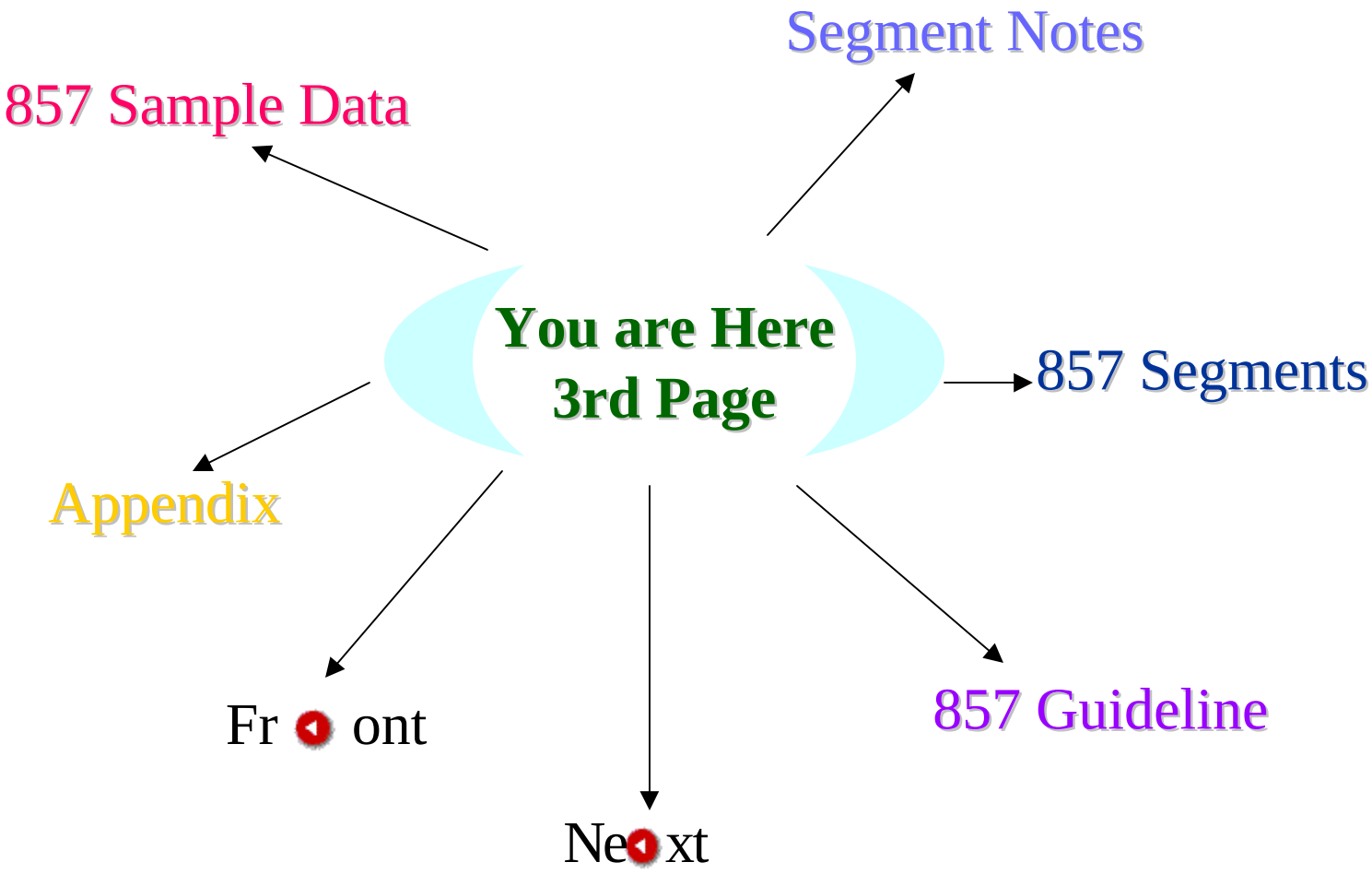
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857 Segments

The Shipment and Billing Notice will use the document control structure described below in compliance with the ASC X12 standards. Please note that indentations are significant, as an indented line (segment) indicates it is a subset of the segment above it. Segments with the same level of indenture are not necessarily directly related to each other but refer to the immediately preceding segment (ST and BHT under GS), or signify the closure of a control loop (the ISA and IEA loop).

The following information defines the ASC X12 857 Shipment and Billing Notice transaction set and explains the meaning of each segment. A = Appendix, G = Guideline, N = Notes

1.	ISA - Interchange Control Header	A, G, N
2.	GS - Functional Group Header (for Combination set)	A, G, N
3.	ST - Transaction Set Header	A, G, N
4.	BHT - Beginning of Hierarchical Transaction	A, G, N
5.	HL*1 - Hierarchical Level (Shipment)	A, G, N
6.	G05 - Total Shipment Information (Units & Weight)	A, G,
7.	TD1 - Carrier Details (Quantity & Weight)	A, G,
8.	TD3 - Carrier Details (Equipment)	A, G,
9.	TD5 - Carrier Details (Routing/Transit Time)	A, G,
10.	FOB - F.O.B. Related Instructions (shpmnt payer)	A, G,
11.	DTM - Date/Time Reference	A, G,
12.	N9 - Reference Numbers (Packing List & BOL)	A, G,
13.	N1 - Location Numbers (of trading partners)	A, G,
14.	HL*2 - Hierarchical Level (Customer Order)	A, G,
15.	TDS - Total Monetary Value Summary	A, G, N
16.	PRF - Purchase Order Reference	A, G, N
17.	N9 - Reference Numbers (Packing List & BOL)	A, G,
18.	ITD - Terms of Sale/Deferred Terms	A, G, N
19.	ITA - Allowance, Charge/Service (invoice level)	A, G, N
20.	HL*3 - Hierarchical Level (Tare/Pallet)	A, G,
21.	PAL - Pallet Information	A, G, N
22.	MAN - Marks & Numbers	A, G, N
23.	HL*4 - Hierarchical Level Item Data)	A, G,
24.	IT1 - Item Data (invoice line item)	A, G, N
25.	IT3 - Add'l Item Data (backordered/cancl qntities)	A, G, N
26.	P04 - Item Physical Details	A, G, N
27.	N9 - Reference Number	A, G, N
28.	PID - Product Description	A, G, N
29.	ITA - Allowance, Charge or Service	A, G, N
30.	SE - Transaction Set Trailer	A, G, N
31.	GE - Functional Group Trailer	A, G, N
32.	IEA - Interchange Control Trailer	A, G, N

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857 Segment Notes

Following are notes regarding those segments, which may require further explanation, keyed to the numeric references immediately above:

1. ISA - Only one ISA-IEA controls loop may be used per transmission.

2. GS - One or more GS-GE control loops may be used per transmission by the supplier, but only one is mandatory.

3. ST - Multiple Shipment and Billing Notices can be reported within one ST-SE control loop, but only Shipment and Billing Notices may be present within this mandatory segment.

4. BHT - This segment is mandatory and identifies the hierarchy of the Shipment and Billing Notice. The hierarchy, using the guideline code value "0001", is shipment, order, tare (pallet), pack (carton), subpack, and item. In this guideline, pack and subpack are omitted, yielding four hierarchical (HL) segments.

5. HL*1 - This segment is mandatory and identifies the start of the data specific to the shipment. The shipment contains one or more customer orders (see HL*2).

12. N9 - The bill of lading and packing list numbers may be provided here if one or both apply to the entire shipment.

13. N1 - Up to four Name segments may be included in the transaction, though only the Ship To type is mandatory.

14. HL*2 - This segment is mandatory and identifies the start of the data specific to the customer's (purchaser's) order within the supplier's shipment. This segment may be repeated for other customer orders after all data for a single customer order has been generated.

15. TDS - This mandatory segment indicates the total value of the invoice without the effect of early payment discounts.

16. PRF - This mandatory segment specifies the purchase order number.

17. N9 - The bill of lading or packing list number may be optionally included here if either or both apply to the purchase order, rather than the entire shipment.

18. ITD - The invoice terms are specified on this segment, and the segment is mandatory.

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19. ITA - This optional segment is used to specify charges associated with an invoice, as opposed to line item level special charges.

20. HL*3 - This segment is mandatory and identifies the start of the data specific to a single shipment container (pallet) of items on the purchase order within this shipment.

21. PAL - This segment contains information about the physical characteristics of the pallet.

22. MAN - The unique bar coded serial number of the pallet is contained in this optional segment.

23. HL*4 - This fourth hierarchical level indicates the following segments describe items on the tare container (pallet) for this customer order in this shipment.

24. IT1 - This mandatory segment occurs, as many times as there are line items on the invoice.

25. IT3 - This optional segment is used to show backordered or canceled quantities for this line item.

26. P04 - This optional segment indicates this item is packed in a carton containing more than one unit of the item, e.g., a master pack. This segment would not be used to reference a mixed load carton.

27. N9 - This optional segment allows specification of the bar coded serial number of the mixed load carton in which this item is packed, or the bar coded serial number of the master pack carton containing this item.

28. PID - The Product Description segment is optional, and should be used only if the part number specified on the IT1 segment isn't sufficient to uniquely identify the product.

29. ITA - The Allowance, Charge or Service segment placed after the invoice line item is used to specify core charges or free goods. It is an optional segment and can be used only for cores or free goods.

The Shipment and Billing Notice (857) - Sample Data

```
ISA*00*bbbbbbbbbb*00*bbbbbbbbbb*01*007061617bbbbbb*01
*00507479bbbbbb*930906*2018*U*00303*000007023*0*P**^
GS*BS*007061617*005070479*930906*2025*1225*X*003030^
ST*857*121653^
BHT*0001*33*123456*930906*2110^
HL*1*0*S*1^
G05*3*PC*24*LB^
TD1*CTN25*1*****24*LB^
TD3*TL**0579745^
TD5*B*2*YFSY*LT^
FOB*CC^
DTM*011*930904*1659^
N9*BM*4S12345^
N9*PK*12345^
N1*SF**91*H98111A1^
N1*ST**92*123456789^
N1*RE**92*234567890^
N1*VN**92*345678901^
HL*2*1*O*1^
TDS*46.02^
PRF*SESQ38828*920801^
N9*BM*5S12345^
N9*PK*12345^
ITD*12*03*02*931009*10****931010**33333**10*R*015^
ITA*C**HC*06*FT**4.51*****^
HL*3*2*T*1^
PAL*6****32*01^
MAN*GM*123456789^
HL*4*3*I*0^
IT1**3*EA*10.69*NT*BP*K1*VP*K1*BL*GAT^
IT3***BP*1*PC^
P04*3*1*EA*CTN25^
N9*LS*SFLE40091^
PID*F****5M1000 POLYFLEX^
ITA*C**XP*06***4.65*****3^
SE*12*121653^
GE*1*1225^
IEA*1*000007023^
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857 Shipment and Billing Notice

Functional Group ID=BS

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Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Shipment and Billing Notice Transaction Set (857) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set provides the recipient of a shipment with data for both receipt planning and payment generation. EDI and telecommunications technologies suggest efficiencies in the way business data is processed. For example, the sender of a shipment may send the recipient's receiving function a Ship Notice/Manifest (856), and the payables function an Invoice (810), even though the contents of these two documents may be largely redundant. In certain business environments, the Shipment and Billing Notice permits the consolidation of these two documents into one. Specifically, this transaction set is appropriate where the shipment data, when it includes terms and item prices, can be used both to plan receipts and to generate payment. In this environment, the exact prices for the items shipped may not be known in advance by both parties. This transaction set is not appropriate in so-called Evaluated Receipts Settlement (ERS) environments, in which the exact prices for the items shipped have been agreed upon by, and are known to, both parties in advance. This transaction set is not to be used to replace the Ship Notice/Manifest (856) or Invoice (810) individually, but only to replace both, together. For example, do not use this transaction set in place of a Ship Notice/Manifest while continuing to send either paper or electronic invoice.

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	010	ST	Transaction Set Header	M	1		c1
Must Use	020	BHT	Beginning of Hierarchical Transaction	M	1		n1
			LOOP ID - HL			>1	
Must Use	030	HL	Hierarchical Level	M	1		n2
			LOOP ID - BS1			1	
	040	G05	Total Shipment Information	O	1		n3
	050	TD1	Carrier Details (Quantity and Weight)	O	5		
	060	TD3	Carrier Details (Equipment)	O	5		
	080	TD5	Carrier Details (Routing Sequence/Transit Time)	O	10		
	090	FOB	F.O.B. Related Instructions	O	1		
	100	DTM	Date/Time/Period	O	5		
	101	N9	Reference Number	O	20		
	102	N9	Reference Number	O	20		
	110	N9	Reference Number	O	20		
			LOOP ID - N1			10	
	131	N1	Name	O	1		
	132	N1	Name	O	1		
	133	N1	Name	O	1		
	140	N1	Name	O	1		
Must Use	171	HL	Hierarchical Level	M	1		n4
			LOOP ID - BS2			1	
	180	TDS	Total Monetary Value Summary	O	1		n5

	190	PRF	Purchase Order Reference	O	1			
	191	N9	Reference Number	O	10			
	192	N9	Reference Number	O	10			
	200	N9	Reference Number	O	10			
	220	ITD	Terms of Sale/Deferred Terms of Sale	O	5			
			LOOP ID - ITA			10		
	240	ITA	Allowance, Charge or Service	O	1			
	241	N1	Name	O	1			
Must Use	292	HL	Hierarchical Level	M	1		n6	
			LOOP ID - BS3			1		
	300	PAL	Pallet Information	O	1		n7	
	310	MAN	Marks and Numbers	O	10			
Must Use	312	HL	Hierarchical Level	M	1		n8	
			LOOP ID - BS5			1		
	370	IT1	Baseline Item Data (Invoice)	O	1		n9	
	380	IT3	Additional Item Data	O	1			
	390	PO4	Item Physical Details	O	1			
	395	N9	Reference Number	O	1			
			LOOP ID - PID			25		
	450	PID	Product/Item Description	O	1			
			LOOP ID - ITA			10		
	490	ITA	Allowance, Charge or Service	O	1			
Must Use	510	SE	Transaction Set Trailer	M	1			

Transaction Set Notes

1. BHT01, Hierarchical Structure Code, may only contain the code values 0001, 0002, and 0003.
When BHT01, the Hierarchical Structure Code, contains a value of 0001, the levels of the transaction set are Shipment, Order, Tare (pallet), Pack (carton), Subpack, and Item. The levels, when used, must always appear (in the transmission) in the above order, e.g., the tare level cannot be subordinate to the item level; however, the pack level may be omitted.
When BHT01, the Hierarchical Structure Code, contains a value of 0002, the levels of the transaction set are Shipment, Order, Item, Tare (pallet), Pack (carton), and Subpack. The levels, when used, must always appear (in the transmission) in the above order, e.g., the tare level cannot be subordinate to the pack level; however, the tare level may be omitted.

2. HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HL segment.
HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level.
HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level).

3. The BS1 loop may only be used at the Shipment Level.

4. HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HL segment.
HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level.
HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level).

5. The BS2 loop may only be used at the Order Level.

The Transaction Set shall contain at least one occurrence of the BS2 loop, Order Level.

6. HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HL segment.
HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level.
HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level).

7. The BS3 loop may only be used at the Tare (pallet) Level.

8. HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HL segment.
HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level.
HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level).

9. The BS5 loop may only be used at the Item Level.
There shall be at least one occurence of the BS5 loop, Item Level within each Order Level.

Transaction Set Comments

1. The structure of this transaction set is one shipment of one or more orders.
This transaction set is used to convey information that is normally found on a shipping/receiving document and a invoice, in a paper environment. In most cases prices are excluded from the receiving documents. Care should be exercised to keep this information from the receiving area if it is the current practice to exclude such information. It may be prudent to consult an auditor or legal representative if there is any question.

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: Segment Example: ST*857*121653^

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set Refer to 003030 Data Element Dictionary for acceptable code values.	**M ID 3/3**
>>	**ST02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

Segment: **BHT** **Beginning of Hierarchical Transaction**
Position: 020
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To define the business hierarchical structure of the transaction set and identify the business application purpose and reference data, i.e., number, date, and time
Syntax Notes:
Semantic Notes:
1 BHT03 is the number assigned by the originator to identify the transaction within the originator's business application system.
2 BHT04 is the date the transaction was created within the business application system.
3 BHT05 is the time the transaction was created within the business application system.
Comments:
Notes: Segment Example: BHT*0001*33*123456*930906*2110^

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**BHT01**	**1005**	**Hierarchical Structure Code** Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set Suggested code for aftermarket usage. Any ASC X12 approved code may be used. 0001 Shipment, Order, Packaging, Item	**M ID 4/4**
>>	**BHT02**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set Suggested code for aftermarket usage. Any ASC X12 approved code may be used. 33 Request for Payment	**M ID 2/2**
>>	**BHT03**	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**M AN 1/30**
>>	**BHT04**	**373**	**Date** Date (YYMMDD)	**M DT 6/6**
	BHT05	**337**	**Time** Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	**O TM 4/6**

Segment: **HL** **Hierarchical Level**
Position: 030
Loop: HL
Level:
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
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 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.
3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
4 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.
5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.
Notes: Segment Example: HL*1*0*S*1^

Used to identify each shipment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**HL01**	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M**	**AN 1/12**
	HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to Must have value of "0" when used at the shipment level.	**O**	**AN 1/12**
>>	**HL03**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure S Shipment	**M**	**ID 1/2**
	HL04	**736**	**Hierarchical Child Code** Code indicating whether if there are hierarchical child data segments subordinate to the level being described.	**O**	**ID 1/1**

0	No Subordinate HL Segment in This Hierarchical Structure.
1	Additional Subordinate HL Data Segment in This Hierarchical Structure.

Segment: **G05** **Total Shipment Information**
Position: 040
Loop: BS1
Level:
Usage: Optional
Max Use: 1
Purpose: To provide totals relating to the shipment
Syntax Notes: **1** If either G0505 or G0506 is present, then the other is required.
Semantic Notes:
Comments: **1** G0502 qualifies G0501.
2 G0504 qualifies G0503.
Notes: Segment Example: G05*3*PC*24*LB^

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**G0501**	**382**	**Number of Units Shipped** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	**M R 1/10**
>>	**G0502**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Suggested code for aftermarket usage. Any ASC X12 approved code may be used. PC Piece	**M ID 2/2**
>>	**G0503**	**81**	**Weight** Numeric value of weight	**M R 1/10**
>>	**G0504**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Suggested code for aftermarket usage. Any ASC X12 approved code may be used. LB Pound	**M ID 2/2**

Segment: **TD1** **Carrier Details (Quantity and Weight)**
Position: 050
Loop: BS1
Level:
Usage: Optional
Max Use: 5
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes: **1** If TD101 is present, then TD102 is required.
2 If TD103 is present, then TD104 is required.
3 If TD106 is present, then both TD107 and TD108 are required.
Semantic Notes:
Comments:
Notes: Segment Example: TD1*CTN25*1*****24*LB^
This is an optional segment.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
TD101	**103**	**Packaging Code** Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material Suggested codes for aftermarket usage. Any ASC X12 approved code may be used. CTN Carton 25 Corrugated or Solid	**O AN 5/5**
TD102	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity	**X N0 1/7**
TD107	**81**	**Weight** Numeric value of weight	**X R 1/10**
TD108	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Suggested code for aftermarket usage. Any ASC X12 approved code may be used. LB Pound	**X ID 2/2**

Segment: **TD3** **Carrier Details (Equipment)**
Position: 060
Loop: BS1
Level:
Usage: Optional
Max Use: 5
Purpose: To specify transportation details relating to the equipment used by the carrier
Syntax Notes: **1** If TD302 is present, then TD303 is required.
2 If TD304 is present, then both TD305 and TD306 are required.
Semantic Notes:
Comments:
Notes: Segment Example: TD3*TL**0579745^
This is an optional segment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**TD301**	**40**	**Equipment Description Code** Code identifying type of equipment used for shipment Suggested code for aftermarket usage. Any ASC X12 approved code may be used. TL Trailer (not otherwise specified)	**M ID 2/2**
	TD303	**207**	**Equipment Number** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	**X AN 1/10**

Segment: **TD5** **Carrier Details (Routing Sequence/Transit Time)**
Position: 080
Loop: BS1
Level:
Usage: Optional
Max Use: 10
Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:
1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.
2 If TD502 is present, then TD503 is required.
3 If TD507 is present, then TD508 is required.
4 If TD510 is present, then TD511 is required.
Semantic Notes:
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.
Notes: Segment Example: TD5*B*2*YFSY*LT^

This is an optional segment.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
TD501	**133**	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement Suggested code for aftermarket usage. Any ASC X12 approved code may be used. B Origin/Delivery Carrier (Any Mode)	**O ID 1/2**
TD502	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) Suggested code for aftermarket usage. Any ASC X12 approved code may be used. 2 Standard Carrier Alpha Code (SCAC)	**X ID 1/2**
TD503	**67**	**Identification Code** Code identifying a party or other code	**X AN 2/17**
TD504	**91**	**Transportation Method/Type Code** Code specifying the method or type of transportation for the shipment Suggested codes for aftermarket usage. Any ASC X12 approved code may be used. A Air AE Air Express LT Less Than Trailer Load (LTL) R Rail	**X ID 1/2**

		U Private Parcel Service		
TD507	**309**	**Location Qualifier** Code identifying type of location Elements TD507 and TD508 to be included if element TD504 has a value of "A" or "AE." Suggested code for aftermarket usage. Any ASC X12 approved code may be used. OR Origin (Shipping Point)	**O**	**ID 1/2**
TD508	**310**	**Location Identifier** Code which identifies a specific location Airport Location Code.	**X**	**AN 1/25**

Segment: **FOB** **F.O.B. Related Instructions**
Position: 090
Loop: BS1
Level:
Usage: Optional
Max Use: 1
Purpose: To specify transportation instructions relating to shipment
Syntax Notes:
1 If FOB03 is present, then FOB02 is required.
2 If FOB04 is present, then FOB05 is required.
3 If FOB07 is present, then FOB06 is required.
4 If FOB08 is present, then FOB09 is required.
Semantic Notes:
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.
Comments:
Notes: Segment Example: FOB*CC^

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**FOB01**	**146**	**Shipment Method of Payment** Code identifying payment terms for transportation charges Suggested codes for aftermarket usage. Any ASC X12 approved code may be used. BP Paid by Buyer The buyer agrees to the transportation payment term requiring the buyer to pay transportation charges to a specified location (origin or destination location) CC Collect PB Customer Pick-up/Backhaul PP Prepaid (by Seller) PS Paid by Seller The seller agrees to the transportation payment term requiring the seller to pay transportation charges to a specified location (origin or destination location)	**M ID 2/2**

Segment: **DTM** **Date/Time/Period**
Position: 100
Loop: BS1
Level:
Usage: Optional
Max Use: 5
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 or DTM03 is required.
Semantic Notes:
Comments:
Notes: Segment Example: DTM*011*930904*1659**19^

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time Suggested code for aftermarket usage. Any ASC X12 approved code may be used. 011 Shipped	**M**	**ID 3/3**
	DTM02	**373**	**Date** Date (YYMMDD)	**X**	**DT 6/6**
	DTM03	**337**	**Time** Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	**X**	**TM 4/6**
	DTM05	**624**	**Century** The first two characters in the designation of the year (CCYY)	**O**	**N0 2/2**

Segment: **N9** **Reference Number**
Position: 101
Loop: BS1
Level:
Usage: Optional
Max Use: 20
Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier
Syntax Notes: **1** At least one of N902 or N903 is required.
Semantic Notes:
Comments:
Notes: Segment Example: N9*BM*5S12345^

This is an optional segment; use with combined shipments on a single bill of lading.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**N901**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. Suggested code for aftermarket usage. Any ASC X12 approved code may be used. BM Bill of Lading Number	**M ID 2/2**
	N902	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. Suggested codes for aftermarket usage. S Prefix = Carton Serial Number 5S Prefix = Mixed Load Serial Number	**X AN 1/30**

Segment: **N9** **Reference Number**
Position: 102
Loop: BS1
Level:
Usage: Optional
Max Use: 20
Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier
Syntax Notes: **1** At least one of N902 or N903 is required.
Semantic Notes:
Comments:
Notes: Segment Example: N9*PK*12345^

This is an optional segment; use with combined packing list covering multiple purchase orders.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**N901**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. Suggested code for aftermarket usage. Any ASC X12 approved code may be used. PK Packing List Number	**M ID 2/2**
	N902	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**X AN 1/30**

Segment: **N9** **Reference Number**
Position: 110
Loop: BS1
Level:
Usage: Optional
Max Use: 20
Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier
Syntax Notes: **1** At least one of N902 or N903 is required.
Semantic Notes:
Comments:
Notes: Segment Example: N9*IV*23456^

This is an optional segment; use with combined invoice covering multiple purchase orders.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**N901**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. Suggested code for aftermarket usage. Any ASC X12 approved code may be used. IV Seller's Invoice Number	**M ID 2/2**
	N902	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**X AN 1/30**

Segment: **N1** **Name**
Position: 131
Loop: N1
Level:
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **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.
Notes: Segment Example: N1*SF**91*H98111A1^

This is an optional segment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, or an individual Suggested code for aftermarket usage. Any ASC X12 approved code may be used. SF Ship From	**M ID 2/2**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) Suggested codes for aftermarket usage. Any ASC X12 approved code may be used. 91 Assigned by Seller or Seller's Agent 92 Assigned by Buyer or Buyer's Agent	**X ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code	**X AN 2/17**

Segment: **N1** **Name**
Position: 132
Loop: N1
Level:
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **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.
Notes: Segment Example: N1*ST**92*123456789^

This is an optional segment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, or an individual Suggested code for aftermarket usage. Any ASC X12 approved code may be used. ST Ship To	**M ID 2/2**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) Suggested codes for aftermarket usage. Any ASC X12 approved code may be used. 91 Assigned by Seller or Seller's Agent 92 Assigned by Buyer or Buyer's Agent	**X ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code Code identifies the buyer's ship-to location.	**X AN 2/17**

Segment: **N1** **Name**
Position: 133
Loop: N1
Level:
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **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.
Notes: Segment Example: N1*RE**92*234567890^

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, or an individual Suggested code for aftermarket usage. Any ASC X12 code may be used. RE Party to receive commercial invoice remittance	**M ID 2/2**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) Suggested code for aftermarket usage. Any ASC X12 approved code may be used. 92 Assigned by Buyer or Buyer's Agent	**X ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code Code identifies the buyer's remit-to location.	**X AN 2/17**

Segment: **N1** **Name**
Position: 140
Loop: N1
Level:
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **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.
Notes: Segment Example: N1*VN**92*345678901^

This is an optional segment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, or an individual Suggested code for aftermarket usage. Any ASC X12 approved code may be used. VN Vendor	**M**	**ID 2/2**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) Suggested code for aftermarket usage. Any ASC X12 approved code may be used. 92 Assigned by Buyer or Buyer's Agent	**X**	**ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code	**X**	**AN 2/17**

Segment: **HL** **Hierarchical Level**
Position: 171
Loop: HL
Level:
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
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 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.
3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
4 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.
5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.
Notes: Segment Example: HL*2*1*0*1^

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**HL01**	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M AN 1/12**
	HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to Must have value of "0" when used at the shipment level.	**O AN 1/12**
>>	**HL03**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure Suggested code for aftermarket usage. O Order	**M ID 1/2**
	HL04	**736**	**Hierarchical Child Code** Code indicating whether if there are hierarchical child data segments subordinate to the level being described.	**O ID 1/1**

0	No Subordinate HL Segment in This Hierarchical Structure.
1	Additional Subordinate HL Data Segment in This Hierarchical Structure.

Segment: **TDS** **Total Monetary Value Summary**
Position: 180
Loop: BS2
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the total invoice discounts and amounts
Syntax Notes:
Semantic Notes:
Comments: **1** TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.
Notes: Segment Example: TDS*4602^

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**TDS01**	**361**	**Total Invoice Amount** Amount of invoice (including charges, less allowances) before terms discount (if discount is applicable)	**M**	**N2 1/10**
	TDS02	**390**	**Amount Subject to Terms Discount** Amount upon which the terms discount amount is calculated	**O**	**N2 1/10**

Segment: **PRF** **Purchase Order Reference**
Position: 190
Loop: BS2
Level:
Usage: Optional
Max Use: 1
Purpose: To provide reference to a specific purchase order
Syntax Notes:
Semantic Notes:
Comments:
Notes: Segment Example: PRF*SESQ38828***920801^

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**PRF01**	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser	**M AN 1/22**
	PRF04	**323**	**Purchase Order Date** Date assigned by the purchaser to Purchase Order	**O DT 6/6**

Segment: **N9** **Reference Number**
Position: 191
Loop: BS2
Level:
Usage: Optional
Max Use: 10
Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier
Syntax Notes: **1** At least one of N902 or N903 is required.
Semantic Notes:
Comments:
Notes: Segment Example: N9*BM*5S12345^

This is an optional segment; used if bills of lading are produced for each purchase order.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**N901**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. Suggested code for aftermarket usage. Any ASC X12 approved code may be used. BM Bill of Lading Number	**M ID 2/2**
	N902	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. Bar Coded Serial Number S Prefix -= Carton Serial Number 4S Prefix = Master Load Serial Number 5S Prefix = Mixed Load Serial Number	**X AN 1/30**

Segment: **N9** **Reference Number**
Position: 192
Loop: BS2
Level:
Usage: Optional
Max Use: 10
Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier
Syntax Notes: **1** At least one of N902 or N903 is required.
Semantic Notes:
Comments:
Notes: Segment Example: N9*PK*12345^

This is an optional segment; used if packing lists are produced for each purchase order.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**N901**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. Suggested code for aftermarket usage. Any ASC X12 code may be used. PK Packing List Number	**M ID 2/2**
	N902	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**X AN 1/30**

Segment: **N9** **Reference Number**
Position: 200
Loop: BS2
Level:
Usage: Optional
Max Use: 10
Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier
Syntax Notes: **1** At least one of N902 or N903 is required.
Semantic Notes:
Comments:
Notes: Segment Example: N9*IV*23456^

This is an optional segment; used when an invoice is produced for each purchase order.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**N901**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. Suggested code for aftermarket usage. Any ASC X12 code may be used. IV Seller's Invoice Number	**M ID 2/2**
	N902	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**X AN 1/30**

Segment: **ITD** **Terms of Sale/Deferred Terms of Sale**
Position: 220
Loop: BS2
Level:
Usage: Optional
Max Use: 5
Purpose: To specify terms of sale
Syntax Notes:
1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes:
1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.
Comments:
1 If the code in ITD01 is 04, then ITD09 is required and either ITD10 or ITD11 is required. If the code in ITD01 equals 05, then ITD06 or ITD07 is required.
Notes: Segment Example: ITD*12*3*02*931009*10****931010**33333**10*R*015^

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ITD01	**336**	**Terms Type Code** Code identifying type of payment terms Suggested codes for aftermarket usage. Any ASC X12 code may be used. 01 Basic 02 End of Month (EOM) 03 Fixed Date 05 Discount Not Applicable 07 Extended 08 Basic Discount Offered 12 10 Days After End of Month (10 EOM) 14 Previously agreed upon 17 Terms not Applicable 18 Fixed Date, Late Payment Penalty Applies Sales terms specifying a past due date, and a late payment percentage penalty applies to unpaid balances past this due date 22 Cash Discount Terms Apply Contract terms specify that a cash discount is applicable 23 Payment Due Upon Receipt of Invoice 24 Anticipation A discount allowance given when an invoice is paid before its due date (anticipation = (agreed rate/365) x invoice amount x number of days early) ZZ Mutually Defined	**O ID 2/2**

ITD02	**333**	**Terms Basis Date Code**	**O**	**ID 1/2**
		Code identifying the beginning of the terms period		
		Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.		
		3 Invoice Date		
		4 Specified Date		
ITD03	**338**	**Terms Discount Percent**	**O**	**R 1/6**
		Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date		
ITD04	**370**	**Terms Discount Due Date**	**X**	**DT 6/6**
		Date payment is due if discount is to be earned		
		Element is required if element ITD03 is populated.		
ITD05	**351**	**Terms Discount Days Due**	**X**	**N0 1/3**
		Number of days in the terms discount period by which payment is due if terms discount is earned		
		Element required if element ITD03 is populated.		
ITD07	**386**	**Terms Net Days**	**O**	**N0 1/3**
		Number of days until total invoice amount is due (discount not applicable)		
		Element required if value of ITD01 is "05."		
ITD09	**388**	**Terms Deferred Due Date**	**O**	**DT 6/6**
		Date deferred payment or percent of invoice payable is due		
ITD11	**342**	**Percent of Invoice Payable**	**X**	**R 1/5**
		Amount of invoice payable expressed in percent		
ITD13	**765**	**Day of Month**	**X**	**N0 1/2**
		The numeric value of the day of the month between 1 and the maximum day of the month being referenced		
ITD14	**107**	**Payment Method Code**	**O**	**ID 1/1**
		Code identifying type of payment procedures		
		Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.		
		C Pay By Check		
		R Related Detail Account		
		Individual account that provides supporting data for a billing or summary amount		
ITD15	**954**	**Percent**	**O**	**R 1/10**
		Percentage expressed as a decimal		

Segment: **ITA** **Allowance, Charge or Service**
Position: 240
Loop: ITA
Level:
Usage: Optional
Max Use: 1
Purpose: To specify allowances, charges, or services
Syntax Notes:
1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required.
2 If ITA08 is present, then ITA09 is required.
3 If ITA10 is present, then ITA11 is required.
4 If ITA15 is present, then ITA02 is required.
Semantic Notes:
1 ITA12 is the quantity of free goods.
Comments:
1 If ITA01 = A-Allowance or C-Charge, then at least one of ITA06, ITA07, or ITA08 must be present.
2 ITA02 identifies the source of the code value in ITA03 or ITA15.
3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
4 ITA13 is used to clarify the allowance, charge, or service.
5 ITA15 specifies the individual code list of the agency specified in ITA02.
6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.
Notes: Segment Example: ITA*C*HC*06*FT**451^

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**ITA01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified Suggested codes for aftermarket usage. Any ASC X12 approved code may be used. A Allowance C Charge N No Allowance or Charge	**M ID 1/1**
	ITA03	**560**	**Special Services Code** Code identifying the special service Suggested codes for aftermarket usage. Any ASC X12 approved code may be used. EM Emergency Service HC Handling Service SH Special Handling Service	**X ID 2/10**
>>	**ITA04**	**331**	**Allowance or Charge Method of Handling Code** Code indicating method of handling for an allowance or charge Suggested code for aftermarket usage. Any ASC X12 approved code may be used. 06 Charge to be Paid by Customer	**M ID 2/2**

ITA05	**341**	**Allowance or Charge Number**	**O**	**AN 1/16**
		The number assigned by a vendor referencing an allowance, promotion, deal or charge Code assigned by a vendor to reference an allowance, promotion, deal or charge. FT = Freight Charges DS = Drop Ship Charge PL = Pallet Charges Other codes to be defined.		
ITA07	**360**	**Allowance or Charge Total Amount**	**O**	**N2 1/9**
		Total dollar amount for the allowance or charge		

Segment: **N1** **Name**
Position: 241
Loop: ITA
Level:
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **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.
Notes: Segment Example: N1*ND**92*456789012^

This is an optional segment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, or an individual Suggested code for aftermarket usage. Any ASC X12 approved code may be used. VN Vendor	**M**	**ID 2/2**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) Suggested code for aftermarket usage. Any ASC X12 approved code may be used. 92 Assigned by Buyer or Buyer's Agent	**X**	**ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code	**X**	**AN 2/17**

Segment: **HL** **Hierarchical Level**
Position: 292
Loop: HL
Level:
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
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 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.
3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
4 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.
5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.
Notes: Segment Example: HL*3*2*T*1^

This is an optional segment to be used if products are palletized for the purchase order.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**HL01**	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M**	**AN 1/12**
	HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	**O**	**AN 1/12**
>>	**HL03**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure T Shipping Tare	**M**	**ID 1/2**
	HL04	**736**	**Hierarchical Child Code** Code indicating whether if there are hierarchical child data segments subordinate to the level being described.	**O**	**ID 1/1**

0	No Subordinate HL Segment in This Hierarchical Structure.
1	Additional Subordinate HL Data Segment in This Hierarchical Structure.

Segment: **PAL** **Pallet Information**
Position: 300
Loop: BS3
Level:
Usage: Optional
Max Use: 1
Purpose: To identify the type and physical attributes of the pallet, and, gross weight, gross volume, and height of the load and the pallet
Syntax Notes:
1 If either PAL05 or PAL06 is present, then the other is required.
2 If PAL07 is present, then PAL10 is required.
3 If PAL08 is present, then PAL10 is required.
4 If PAL09 is present, then PAL10 is required.
5 If either PAL11 or PAL12 is present, then the other is required.
6 If either PAL13 or PAL14 is present, then the other is required.
Semantic Notes:
1 PAL04 (Pack) is the number of pieces on the pallet.
2 PAL05 (Unit Weight) is the weight of the pallet alone, before loading.
3 PAL07 and PAL08 (Length and Width) are the dimensions of the pallet before loading.
4 PAL09 (Height) is the height of the pallet and load.
5 PAL11 and PAL13 (Gross Weight and Gross Volume) are measured after loading and includes the pallet.
Comments:
Notes: Segment Example: PAL*6****32*01^

This is a conditionally optional segment to be used if products are palletized for the purchase order.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
PAL01	**883**	**Pallet Type Code** Code indicating the type of pallet Suggested code for aftermarket usage. Any ASC X12 approved code may be used. 6 Wood	**O ID 1/2**
PAL05	**395**	**Unit Weight** Numeric value of weight per unit	**X R 1/8**
PAL06	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Suggested code for aftermarket usage. Any ASC X12 approved code may be used. 01 Actual Pounds	**X ID 2/2**

Segment: **MAN** **Marks and Numbers**
Position: 310
Loop: BS3
Level:
Usage: Optional
Max Use: 10
Purpose: To indicate identifying marks and numbers for shipping containers
Syntax Notes:
Semantic Notes:
Comments:
Notes: Segment Example: MAN*GM*234567890^

This is a conditionally optional segment to be used if products are palletized for the purchase order.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**MAN01**	**88**	**Marks and Numbers Qualifier** Code specifying the application or source of Marks and Numbers (87) Suggested codes for aftermarket usage. Any ASC X12 approved code may be used. GM UCC/EAN-128 Serial Shipping Container Code Format UC UPC Shipping Container Code (Interleaved 2 of 5)	**M ID 1/2**
>>	**MAN02**	**87**	**Marks and Numbers** Marks and numbers used to identify a shipment or parts of a shipment	**M AN 1/45**

Segment: **HL** **Hierarchical Level**
Position: 312
Loop: HL
Level:
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
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 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.
3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
4 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.
5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.
Notes: Segment Example: HL*4*3*I*0^

This is an optional segment to be used if products are palletized for the purchase order.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**HL01**	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M**	**AN 1/12**
	HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to Element value would be "2" if the shipment was not palletized.	**O**	**AN 1/12**
>>	**HL03**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure I Item	**M**	**ID 1/2**
	HL04	**736**	**Hierarchical Child Code** Code indicating whether if there are hierarchical child data segments	**O**	**ID 1/1**

subordinate to the level being described.

0	No Subordinate HL Segment in This Hierarchical Structure.
1	Additional Subordinate HL Data Segment in This Hierarchical Structure.

Segment: **IT1** **Baseline Item Data (Invoice)**
Position: 370
Loop: BS5
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions
Syntax Notes:
1 If IT106 is present, then IT107 is required.
2 If IT108 is present, then IT109 is required.
3 If IT110 is present, then IT111 is required.
4 If IT112 is present, then IT113 is required.
5 If IT114 is present, then IT115 is required.
6 If IT116 is present, then IT117 is required.
7 If IT118 is present, then IT119 is required.
8 If IT120 is present, then IT121 is required.
9 If IT122 is present, then IT123 is required.
10 If IT124 is present, then IT125 is required.
Semantic Notes:
1 IT101 is the purchase order line item identification.
Comments:
1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of ID's.
2 IT106 through IT125 provides for ten (10) different product/service ID's for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.
Notes: Segment Example:
IT1**3*EA*1069*NT*BP*K1*VP*K1*BL*GAT*PL*2*SR*K1R*UP*140159233036
^

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**IT102**	**358**	**Quantity Invoiced** Number of units invoiced (supplier units)	**M R 1/10**
>>	**IT103**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Suggested codes for aftermarket usage. Any ASC X12 approved code may be used. EA Each FT Foot MR Meter P4 Four-pack P6 Six pack P8 Eight-pack	**M ID 2/2**
>>	**IT104**	**212**	**Unit Price**	**M R 1/14**

Price per unit of product, service, commodity, etc.

IT105 **639** **Basis of Unit Price Code** **O** **ID 2/2**

Code identifying the type of unit price for an item

Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.

HF	Per 100 Feet
NT	Net
	Indicates a net unit price
PF	Price Per Foot

IT106 **235** **Product/Service ID Qualifier** **O** **ID 2/2**

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

Suggested code for aftermarket usage. Any approved ASC X12 code may be used.

BP	Buyer's Part Number

IT107 **234** **Product/Service ID** **X** **AN 1/30**

Identifying number for a product or service

IT108 **235** **Product/Service ID Qualifier** **O** **ID 2/2**

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

Suggested code for aftermarket usage. Any ASC X12 approved code may be used.

VP	Vendor's (Seller's) Part Number

IT109 **234** **Product/Service ID** **X** **AN 1/30**

Identifying number for a product or service

IT110 **235** **Product/Service ID Qualifier** **O** **ID 2/2**

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

Suggested code for aftermarket usage. Any ASC X12 approved code may be used.

BL	Brand/Label

IT111 **234** **Product/Service ID** **X** **AN 1/30**

Identifying number for a product or service

Three character brand code. Elements IT110 and IT111 are to be used only when brand information is required by the customer.

IT112 **235** **Product/Service ID Qualifier** **O** **ID 2/2**

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

Suggested code for aftermarket usage. Any ASC X12 approved code may be used.

PL	Purchaser's Order Line Number

IT113 **234** **Product/Service ID** **X** **AN 1/30**

Identifying number for a product or service

Purchaser's order line number. Elements IT113 and IT113 are to be used only when the customer requires PO line number information to identify the product being shipped.

IT114 **235** **Product/Service ID Qualifier** **O** **ID 2/2**

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

Suggested code for aftermarket usage. Any ASC X12 approved code may be used.

SR Substitute Product Number

IT115 **234** **Product/Service ID** **X** **AN 1/30**

Identifying number for a product or service

Substitute product number. Elements IT114 and IT115 are to be used only when the supplier has substituted a part for the part ordered by the customer.

IT116 **235** **Product/Service ID Qualifier** **O** **ID 2/2**

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

Suggested code for aftermarket usage. Any ASC X12 approved code may be used.

UP U.P.C. Consumer Package Code (1-5-5-1)

IT117 **234** **Product/Service ID** **X** **AN 1/30**

Identifying number for a product or service

UPC consumer package code. Elements IT116 and IT117 are to be used only if the customer requires the UPC code to identify the product.

Segment: **IT3** **Additional Item Data**
Position: 380
Loop: BS5
Level:
Usage: Optional
Max Use: 1
Purpose: To specify additional item details relating to variations between ordered and shipped quantities, or to specify alternate units of measures and quantities
Syntax Notes: **1** If IT301 is present, then IT302 is required.
2 At least one of IT301 IT303 IT304 or IT305 is required.
Semantic Notes:
Comments:
Notes: Segment Example: IT3*3*EA*BP*1*PC^

This is an optional segment to be used if the product is shipped in a quantity other than that on the purchase order.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
IT301	**382**	**Number of Units Shipped** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	**X R 1/10**
IT302	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Suggested codes for aftermarket usage. Any ASC X12 approved code may be used. EA Each FT Foot MR Meter P4 Four-pack P6 Six pack P8 Eight-pack	**X ID 2/2**
IT303	**368**	**Shipment/Order Status Code** 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 Suggested codes for aftermarket usage. Any ASC X12 approved codes may be used. BK Back Ordered from Previous Order BP Shipment Partial, Back Order to Ship on (Date) CC Shipment Complete on (Date) CP Partial Shipment on (Date), Considered No Backorder	**X ID 2/2**
IT304	**383**	**Quantity Difference**	**X R 1/9**

Numeric value of variance between ordered and shipped quantities

IT305	**371**	**Change Reason Code**	**X**	**ID 2/2**

Code specifying the reason for price or quantity change

Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.

MC	Pack/Size Measure Difference
PC	Pack Difference
UM	Unit of Measure Difference

Segment: **PO4** **Item Physical Details**
Position: 390
Loop: BS5
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item
Syntax Notes:
1 If PO402 is present, then PO403 is required.
2 If PO405 is present, then PO406 is required.
3 If PO406 is present, then PO407 is required.
4 If either PO408 or PO409 is present, then the other is required.
5 If PO410 is present, then PO413 is required.
6 If PO411 is present, then PO413 is required.
7 If PO412 is present, then PO413 is required.
8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
Semantic Notes:
Comments:
1 PO403 - The "Unit of Measure Code" (Element #355) in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. Example: If the carton contains 24 12-Ounce packages, it would be described as follows: Element 356 = 24; Element 357 = 12; Element 355 = OZ.
2 PO413 defines the unit of measure for PO410, PO411, and PO412.
Notes: Segment Example: PO4*3*1*EA*CTN25^
This is an optional segment.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
PO401	**356**	**Pack** Number of inner pack units per outer pack unit	**O**	**N0 1/6**
PO402	**357**	**Size** Size of supplier units in pack	**O**	**R 1/8**
PO403	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 003030 Data Element Dictionary for acceptable code values.	**X**	**ID 2/2**
PO404	**103**	**Packaging Code** Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material Suggested code for aftermarket usage. Any ASC X12 approved code may be used. CTN Carton 25 Corrugated or Solid	**O**	**AN 5/5**

Segment: **N9** **Reference Number**
Position: 395
Loop: BS5
Level:
Usage: Optional
Max Use: 1
Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier
Syntax Notes: **1** At least one of N902 or N903 is required.
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**N901**	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. Refer to 003030 Data Element Dictionary for acceptable code values.	**M ID 2/2**
	N902	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**X AN 1/30**

Segment: **PID** **Product/Item Description**
Position: 450
Loop: PID
Level:
Usage: Optional
Max Use: 1
Purpose: To describe a product or process in coded or free-form format
Syntax Notes:
1 If PID04 is present, then PID03 is required.
2 At least one of PID04 or PID05 is required.
3 If PID07 is present, then PID03 is required.
4 If PID08 is present, then PID03 is required.
Semantic Notes:
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. A ``N'' indicates it does not apply. Any other value is indeterminate.
Comments:
1 If PID01 = ``F'', then PID05 is used. If PID01 = ``S'', then PID04 is used. If PID01 = ``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.
Notes: Segment Example: PID*F****5M1000 POLYFLEX^

This is a conditionally optional segment to be used if the buyer originally sent this info. in the purchase order.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**PID01**	**349**	**Item Description Type** Code indicating the format of a description Suggested code for aftermarket usage. Any ASC X12 approved code may be used. F Free-form	**M ID 1/1**
	PID05	**352**	**Description** A free-form description to clarify the related data elements and their content	**X AN 1/80**

Segment: **ITA** **Allowance, Charge or Service**
Position: 490
Loop: ITA
Level:
Usage: Optional
Max Use: 1
Purpose: To specify allowances, charges, or services
Syntax Notes:
1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required.
2 If ITA08 is present, then ITA09 is required.
3 If ITA10 is present, then ITA11 is required.
4 If ITA15 is present, then ITA02 is required.
Semantic Notes:
1 ITA12 is the quantity of free goods.
Comments:
1 If ITA01 = A-Allowance or C-Charge, then at least one of ITA06, ITA07, or ITA08 must be present.
2 ITA02 identifies the source of the code value in ITA03 or ITA15.
3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
4 ITA13 is used to clarify the allowance, charge, or service.
5 ITA15 specifies the individual code list of the agency specified in ITA02.
6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.
Notes: Segment Example: ITA*C**XP*06***465*****3^

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**ITA01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified Suggested codes for aftermarket usage. Any ASC X12 approved code may be used. A Allowance C Charge N No Allowance or Charge	**M ID 1/1**
	ITA03	**560**	**Special Services Code** Code identifying the special service Suggested codes for aftermarket usage. Any ASC X12 approved code may be used. XP = Expanded Service (Core Charge) FG Free Goods XP Expanded Service	**X ID 2/10**
>>	**ITA04**	**331**	**Allowance or Charge Method of Handling Code** Code indicating method of handling for an allowance or charge Suggested codes for aftermarket usage. Any ASC X12 approved code may be used. Use "06" if value in element ITA03 is "XP."	**M ID 2/2**

Use "ZZ" if value in element ITA03 is "FG."

06	Charge to be Paid by Customer
ZZ	Mutually Defined

ITA07	**360**	**Allowance or Charge Total Amount**	**O**	**N2 1/9**
		Total dollar amount for the allowance or charge		
ITA12	**380**	**Quantity**	**O**	**R 1/15**
		Numeric value of quantity		

Segment: **SE** **Transaction Set Trailer**
Position: 510
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
Notes: Segment Example: SE*12*121653^

Data Element Summary

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

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
ISA				Interchange Control Header	To start and identify an interchange of one or more functional groups and interchange-related control segments
00	ISA01	I01	M 2/2	Authorization Information Qual.	No authorization information present (no meaningful information in 102)
bbbbbbbbbb	ISA02	I02	M 10/10	Authorization Information	
00	ISA03	I03	M 2/2	Security Information Qual.	
bbbbbbbbbb	ISA04	I04	M 10/10	Security Information	
01	ISA05	I05	M 2/2	Interchange ID Qualifier	Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified
007061617	ISA06	I06	M 15/15	Interchange Sender ID	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 number in the sender ID element.
01	ISA07	I07	M 2/2	Interchange ID Qualifier	Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified
005070479	ISA08	I07	M 15/15	Interchange Receiver ID	Identification code published by the receiver of the data. When sending it is used by the sender as his sending ID, thus other parties sending to them will use this as a receiving ID to route data to them.
930906	ISA09	I08	M 6/6	Interchange Date	YYMMDD
2018	ISA10	I09	M 4/4	Interchange Time	HHMM
U	ISA11	I10	M 1/1	Interchange Control ID	US EDI community of ASC X12, IDCC and UCS

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
00303	ISA12	I11	M 5/5	Interchange Version No.	Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures review Board Through October 1992
000007023	ISA13	I12	M 9/9	Interchange Control No.	This number uniquely identifies the interchange data to the sender. It is assigned by the sender, and together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number and the sender ID.
0	ISA14	I13	M 1/1	Acknowledgment Requested	No acknowledgment requested.
P	ISA15	I14	M 1/1	Test Indicator	Production data.
	ISA16	I15	M 1/1	Subelement Separator	This is a field reserved for future expansion in separating data element subgroups. (In the interest of a migration to international standards, this should be different from the data element separator.
GS				Functional Group Header	To indicate the beginning of a functional group and to provide control information
BS	GS01	479	M 2/2	Functional ID Code	Code identifying a group of application related transaction sets
007061617	GS02	142	M 2/15	Application Sender's Code	Code identifying party sending transmission
005070479	GS03	124	M 2/15	Application Receiver's Code	Code identifying party receiving transmission
930906	GS04	373	M 6/6	Group Date	Date sender generated transaction set. YYMMDD
2025	GS05	337	M 4/6	Group Time	Date sender generated transaction set HHMM (SS optional)
1225	GS06	28	M 1/9	Group Control No.	Assigned number originated by sender.

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
X	GS07	455	M 1/2	Responsible Agency Code	X = Accredited Standards Committee X12
003030	GS08	480	M 1/12	Version/Release Code	Draft Standards Approved for Publication b ASC X12 Procedures Review Board Through October 1992
ST				Transaction Set Header	To indicate the start of a transaction set and to assign a control number
857	ST01	143	M 3/3	Transaction Set ID Code	Code uniquely identifying a transaction set
121653	ST02	329	M 4/9	Transaction Set Control Number	Identifying control number assigned by the originator for a transaction set
BHT				Beginning of Hierarchical Transaction	To define the business hierarchical structure o the transaction set and identify the business application purpose and reference data; i.e., number, date and time.
0001	BHT01	1005	M 4/4	Hierarchical Structure Code	Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set. 0001 = Shipment, Order, Tare, Item
33	BHT02	353	M 2/2	Transaction Set Purpose Code	Code identifying purpose of the transaction set. 33 = Request for Payment
123456	BHT03	127	M 1/30	Reference Number	Reference number or identification number a defined for a particular transaction set. BHT03 is the number assigned by the originator to identify the transaction within the originator's business application system.
930906	BHT04	373	M 6/6	Date	Date YYMMDD
2110	BHT05	337	M 4/6	Time	Time HHMM (SS optional)

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
HL				Hierarchical Level	To define dependencies among and the contents of hierarchically related groups of data segments. (used to identify each shipment)
1	HL01	628	M 1/12	Hierarchical Identification Number	Contains a unique number for each occurrence of the HL segment in the transaction set.
0	HL02	734	O 1/12	Hierarchical Parent ID	Must have value "O" when used at the Shipment Level
S	HL03	735	M 1/2	Hierarchical Level Code	Code defining the characteristic of a level in a hierarchical structure. S = Shipment
1	HL04	736	O 1/1	Hierarchical Child Code	Code indicating whether there are hierarchical child data segments subordinate to the level being described. O = No Subordinate HL Segment in this hierarchical level 1 = Additional Subordinate HL Data Segment in this Hierarchical Structure
G05				Total Shipment Information	To provide totals relating to the shipment
3	GO501	382	M 1/10	Number of Units Shipped	Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.
PC	GO502	355	M 2/2	Unit or Basis of Measure Code	PC = Piece
24	GO503	81	M 1/10	Weight	Numeric value of weight.
LB	GO504	355	M 2/2	Unit or Basis of Measure Code	LB = Pound
TD1				Carrier Details (Quantity and Weight)	(**This is an optional segment**.) To specify the transportation details relative to commodity, weight and quantity.
CTN25	TD101	103	O 5/5	Packaging Code	Part 1 = Carton, Part 2 = Corrugated or Solid (Shipper decides)
1	TD102	80	X 1/7	Lading Quantity	Number of Units (pieces) of the lading quantity
	TD103	23	O 1/1	Commodity Code Qualifier	Not used.
	TD104	22	X 1/16	Commodity Code	Not used.

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
	TD105	79	O 1/50	Lading Description	Not used.
	TD106	187	O 1/2	Weight Qualifier	Not used.
24	TD107	81	X 1/10	Weight	
LB	TD108	355	X 2/2	Unit or Basis of Measure Code	
TD3				Carrier Details (Equipment)	(**This is an optional segment**.) To specify the transportation details relative to relative to the equipment used by the carrier.
TL	TD301	40	M 2/2	Equipment Description Code	Trailer
	TD302	206	O 1/4	Equipment Initial	Not used.
0579745	TD303	207	X 1/10	Equipment Number	The carrier's trailer number
	TD304	187	O 1/2	Weight Qualifier	Not used.
	TD305	81	X 1/10	Weight	Not used.
	TD306	355	X 2/2	Unit or Basis of	Not used.
	TD307	102	O 1/1	Ownership Code	Not used.
	TD308	407	O 2/2	Seal Status Code	Not used.
	TD309	225	O 2/15	Seal Number	Not used.

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
TD5				Carrier Details (Routing Sequence/Transit Time)	(**This is an optional segment**.) To specify the carrier, sequence of routing and to provide transit time information.
B	TD501	133	O 1/2	Routing Sequence Code	Origin/Delivery Carrier (any mode)
2	TD502	66	X 1/2	ID Code Qualifier	SCAC
YFSY	TD503	67	X 2/17	ID Code	Carrier's SCAC E.G., Yellow Freight
LT	TD504	91	X 1/2	Transport Type Code	LT = Less Than Trailer Load R = Rail U = Private Parcel A = Air AE = Air Express
If the TD504 element contains an "A" or "AE" code, this segment would contain the following additional elements:					
	TD505	387	X 1/35	Routing	Not used.
	TD506	368	X 2/2	Ship/Order Status Code	Not used.
OR	TD507	309	O 1/2	Location Qualifier	OR = Origin (Shipping Point)
Airport Location Code	TD508	310	X 1/25	Location Identifier	Airport Location Code
	TD509	731	O 2/2	Transit Direct Code	Not used.
	TD510	732	O 2/2	Transit Time Qualifier	Not used.
	TD511	733	X 1/4	Transit Time	Not used.
	TD512	284	X 2/2	Service Level Code	Not used.

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
FOB				F.O.B. Related Instructions	Specify transportation instructions relating to shipment.
CC	FOB01	146	M 2/2	Method of Payment	Code identifying payment terms for transportation charges BP = Paid by Buyer (Drop Ship) CC = Collect PB = Customer Pickup/Backhaul PP = Prepaid by Seller PS = Prepaid by Seller (Drop Ship)
	FOB02	309	O1/2	Location Qualifier	Not used.
	FOB03	352	O 1/80	Description	Not used.
	FOB04	334	O 2/2	Transportation Terms	Not used.
	FOB05	335	O 3/3	Transportation Terms Code	Not used.
	FOB06	309	O 1/2	Location Qualifier	Not used.
	FOB07	352	O 1/80	Description	Not used.
	FOB08	54	O 2/2	Risk of Loss Qualifier	Not used.
	FOB09	352	O 1/80	Description	Not used.
DTM				Date/Time Reference	To specify pertinent dates and times.
011	DTM01	374	M 3/3	Date/Time Qualifier	011 = Date Shipped
930904	DTM02	373	X 6/6	Date	YYMDD of ship date
1659	DTM03	337	X 4/6	Time	HHMM (SS optional)
	DTM04	623	O 2/2	Time Code	Not used.
	DTM05	624	O 2/2	Century	Not used.

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
N9				Reference Number	**(This is an optional segment; use with combined shipments on a single bill of lading.)** Used to transmit identifying numbers and descriptive information as specified by the reference number qualifier.
BM	N901	128	M 2/2	Reference Number Qualifier	BM = Bill of Lading Number
4S12345	N902	127	X 1/30	Reference Number	Bar Coded Serial Number S Prefix = Carton Serial Number 5S Prefix = Mixed Load Serial Number
N9				Reference Number	(**This is an optional segment; use with combined packing list covering multiple purchase orders**.) Used to transmit identifying numbers and descriptive information as specified by the reference number qualifier.
PK	N901	128	M 2/2	Reference Number Qualifier	PK = Packing List Number
12345	N902	127	X 1/30	Reference Number	
N9				Reference Number	(**This is an optional segment; use with combined invoice covering multiple purchase orders**.) Used to transmit identifying numbers and descriptive information as specified by the reference qualifier.
IV	N901	128	M 2/2	Reference Number Qualifier	IV = Seller's Invoice Number
23456	N902	127	X 1/30	Reference Number	
N1					(**This is an optional segment**.) To identify a party by type of organization, name and code.
SF	N101	98	M 2/2	Entity Identifier Code	Code identifying an organizational entity, a physical location, or an individual. SF = Ship From (Supplier/Manufacturer)
	N102	93	O 1/35	Name	Not used.

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
91	N103	66	O 1/2	ID Code Qualifier	Code designating the system/method of code structure used for identification code (N104). 91 = Assigned by Seller 92 = Assigned by Buyer
H98111A1	N104	67	O 2/17	Identification Code	Code identifying a party or other code.
N1					To identify a party by type of organization, name and code.
ST	N101	98	M 2/2	Entity Identifier Code	Code identifying an organizational entity, a physical location, or an individual. ST = Ship To
	N102	93	O 1/35	Name	Not used.
92	N103	66	O 1/2	ID Code Qualifier	Code designating the system/method of code structure used for identification code (N104). 91 = Assigned by Seller 92 = Assigned by Buyer
123456789	N104	67	O 2/17	Identification Code	Code identifying a party or other code (in this case the buyer's ship to location).
N1					(**This is an optional segment**.) To identify a party by type of organization, name and code.
RE	N101	98	M 2/2	Entity Identifier Code	Code identifying an organizational entity, a physical location, or an individual. RE = Party to receive commercial invoice remittance
	N102	93	O 1/35	Name	Not used.
92	N103	66	O 1/2	ID Code Qualifier	Code designating the system/method of code structure used for identification code (N104). 92 = Assigned by Buyer
234567890	N104	67	O 2/17	Identification Code	Code identifying a party or other code (in this case the buyer's remit-to designation.)

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
N1					(**This is an optional segment**.) To identify a party by type of organization, name and code.
VN	N101	98	M 2/2	Entity Identifier Code	Code identifying an organizational entity, a physical location, or an individual. VN = Vendor
	N102	93	O 1/35	Name	Not used.
92	N103	66	O 1/2	ID Code Qualifier	Code designating the system/method of code structure used for identification code (N104). 92 = Assigned by Buyer
345678901	N104	67	O 2/17	Identification Code	Code identifying a party or other code (in this case the buyer's vendor number).
HL				Hierarchical Level	To define dependencies among and the content of hierarchically related groups of data segments. (used to identify each shipment)
2	HL01	628	M 1/12	Hierarchical Identification Number	Contains a unique number for each occurrence of the HL segment in the transaction set.
1	HL02	734	O 1/12	Hierarchical Parent ID	Contains the number of the hierarchical parent of this HL segment in the transaction set.
0	HL03	735	M 1/2	Hierarchical Level Code	Code defining the characteristic of a level in a hierarchical structure. O = Order
1	HL04	736	O 1/1	Hierarchical Child Code	Code indicating whether there are hierarchical child data segments subordinate to the level being described. O = No Subordinate HL Segment in this hierarchical level 1 = Additional Subordinate HL Data Segment in this herarchical structure
N1					(**This is an optional segment; use when a combined shipment is to be split and cross docked to other locations**.) To identify a party by type of organization, name and code.

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
ND	N101	98	M 2/2	Entity Identifier Code	Code identifying an organizational entity, a physical location, or an individual. ND = Next Destination
	N102	93	O 1/35	Name	Not used.
92	N103	66	O 1/2	ID Code Qualifier	Code designating the system/method of code structure used for identification code (N104). 92 = Assigned by Buyer
456789012	N104	67	O 2/17	Identification Code	Code identifying a party or other code (in this case the buyer's warehouse, jobbing or retail store, or installer number).
TDS				Total Monetary Value	To specify the total invoice discounts and amounts
4602	TDS01	361	M 1/10	Total Invoice Amount	Amount of Invoice (including charges, less allowances) before terms discount (if discount is applicable) with cents implied.
	TDS02	390	O 1/10	Amount Subject to Terms Discount	Amount upon which the terms discount amount is calculated. Required only if the dollar value subject to discount is not equal to the dollar value of total invoice amount (TDS01).
	TDS03	391	O 1/10	Discounted Amount Due	Not used.
	TDS04	362	O 1/10	Terms Discount Amount	Not used.
PRF				Purchase Order Reference	To provide reference to a specific purchase order.
SESQ38828	PRF01	324	M 1/22	PO Number	Buyer's purchase order number
	PRF02	328	O 1/30	Release Number	Not used.
	PRF03	327	O 1/8	Change Order Sequence Number	Not used.
920801	PRF04	323	O 6/6	PO Date	YYMMDD

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
N9				Reference Numbers	(**This is an optional segment; used if bills of lading are produced for each purchase order**.) Used to transmit identifying numbers and descriptive information as specified by the reference number qualifier.
BM	N901	128	M 2/2	Reference Number Qualifier	BM = Bill of Lading Number
5S12345	N902	127	X 1/30	Reference Number	Bar Coded Serial Number S Prefix = Carton Serial Number 5S Prefix = Mixed Load Serial Number 4S Prefix = Master Load Serial Number
N9				Reference Number	(**This is an optional segment; used if packing lists are produced for each purchase order**.) Used to transmit identifying numbers and descriptive information as specified by the reference number qualifier.
PK	N901	128	M 2/2	Reference Number Qualifier	PK = Packing List Number
12345	N902	127	X 1/30	Reference Number	
N9				Reference Number	(**This is an optional segment; use when an invoice is produced for each purchase order**.) Used to transmit identifying numbers and descriptive information as specified by the reference number qualifier.
IV	N901	128	M 2/2	Reference Number Qualifier	IV = Seller's Invoice Number
23456	N902	127	X 1/30	Reference Number	

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
ITD				Term of Sale	Terms of Sale/Deferred Terms of Sale. Used to specify terms of sale.
12	ITD01	336	O 2/2	Terms Type Code	Code identifying type of payment terms 01 = Basic 02 = End of Month (EOM) 03 = Fixed Date 05 = Discount not Applicable 07 = Extended 08 = Basic Discount Offered 12 = 10 Days After End of Month (10 EOM) 14 = Previously Agreed Upon 17 = Terms Not Applicable 18 = Fixed Date, Late Payment Penalty Applies. Sales terms specifying a past due date, and a late payment percentage penalty applies to unpaid balances past this due date. 22 = Cash Discount Terms Apply. Contract terms specify that a cash discount is applicable. 23 = Payment due upon receipt of invoice 24 = Anticipation. A discount allowance given when an invoice id paid before its due date. ZZ = Mutually Defined
03	ITD02	333	O 1/2	Terms Basis Date Code	Code identifying the beginning of the terms period 03 = Invoice Date 04 = Specified Date

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
02	ITD03	338	O 1/6	Terms Discount Percent	Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the terms discount due date.
931009	ITD04	370	X 6/6	Terms Discount Due Date	Date payment is due if discount is t be earned. (Required if ITD03 is present) YYMMDD
10	ITD05	351	X 1/3	Terms Discount Days Due	Number of days in the terms discount period by which payment is due if terms discount is earned. (Required if ITD03 is present.)
	ITD06	446	O 6/6	Terms Net Due Date	Not used.
	ITD07	386	O 1/3	Terms Net Days	Required if ITD01 (Terms Type Code) is “05".
	ITD08	362	O 1/10	Terms Discount Amount	Not used.
931010	ITD09	388	O 6/6	Terms Deferred Due Date	Date deferred payment or percent of invoice payable is due. YYMMDD
	ITD10	389	O 1/10	Deferred Amount Due	Not used.
33333	ITD11	342	O 1/5	Percent of Invoice Payable	Amount of invoice payable expressed in percent.
	ITD12	352	O 1/80	Description	Not used.
10	ITD13	765	O 1/2	Day of Month	The numeric value of the day of the month between one and the maximum day of the month being referenced in ITD03 (Terms Discount Percent).
R	ITD14	107	O 1/1	Payment Method Code	Code identifying type of payment procedures. C = Pay by Check R = Related Detail Account. (Individual account that provides supporting data for a billing or summary amount.)

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
015	ITD15	954	O 1/10	Percent	The percentage applied to a base amount used to determine a late payment charge.
ITA				Allowance, Charge or Service	To specify allowances, charges or services.
C	ITA01	248	M 1/1	Allowance/Charge Indicator	Code which indicates allowance or charge for the service specified. A = Allowance C = Charge N = No Allowance or Charge
	ITA02	559	O 2/2	Agency Qualifier Code	Not used.
HC	ITA03	560	O 2/10	Special Service Code	Code identifying the special service: EM = Emergency Service (Surcharge) HC = Handling Service SH = Special Handling Services
06	ITA04	331	M 2/2	Allowance/Charge Handle Code	Code indicating method of handling for an allowance or charge: 06 = Charge to be paid by Customer
FT	ITA05	341	O 1/16	Allowance/Charge No.	The number assigned by a vendor referencing an allowance, promotion, deal or charge. Values are: FT = Freight Charges DS = Drop Ship Charge PL = Pallet Charges Other types to be defined
	ITA06	359	O 1/9	Allowance/Charge Rate	Not used.
451	ITA07	360	O 1/9	Allowance/Charge Total Amount	Total dollar amount for the allowance or charge
HL				Hierarchical Level	(**This is an optional segment; used if products are palletized for the purchase order**.) To define dependencies among and the content of hierarchically related groups of data segments. (used to identify each shipment)

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
3	HL01	628	M 1/12	Hierarchical Identification Number	Contains a unique number for each occurrence of the HL segment in the transaction set.
2	HL02	734	O 1/12	Hierarchical Parent ID	Contains the number of the hierarchical parent of this HL segment in the transaction set.
T	HL03	735	M 1/2	Hierarchical Level Code	Code defining the characteristic of a level in a hierarchical structure. T = Tare (pallet)
1	HL04	736	O 1/1	Hierarchical Child Code	Code indicating whether there are hierarchical child data segments subordinate to the level being described. O = No subordinate HL Segment in this hierarchical level 1 = Additional Subordinate HL Data Segment in this Hierarchical Structure
PAL				Pallet Information	(**This is a conditionally optional segment; used if products are palletized for the purchase order**.) To identify the type and physical attributes of the pallet, and gross weight of the load and the pallet.
6	PAL01	883	ID 1/2	Pallet Type Code	6 = Wood
	PAL02	884	NO 1/3	Pallet Tiers	Not used.
	PAL03	885	NO 1/3	Pallet Blocks	Not used.
	PAL04	356	NO 1/6	Pack	Not used.
32	PAL05	395	R 1/8	Unit Weight	Total weight of the pallet, products and packing materials
01	PAL06	355	ID 2/2	Unit or Basis of Measurement Code	Code specifying the units in which a value is being expressed. 01 = Actual Pounds

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
MAN				Marks and Numbers	(**This is a conditionally optional segment; used if products are palletized for the purchase order**.) To indicate identifying marks and numbers for shipping containers.
GM	MAN01	88	ID 1/2	Marks and Numbers Qualifier	Code specifying the application or source of Marks and Numbers. GM = UCC-128 Serial Shipping Container Code Format UC = UPC Shipping Container Code (Interleaved 2 of 5)
123456789	MAN02	87	AN 1/45	Marks and Numbers	Marks and Numbers used to identify a shipment or parts of a shipment.
HL				Hierarchical Level	(**Note: element value for HL02 will be 2' in this sample case if the shipment is not palletized**.) To define dependencies among and the contents of hierarchically related groups of data segments. (used to identify each shipment)
4	HL01	628	M 1//12	Hierarchical Identification Number	Contains a unique number for each occurrence of the HL segment in the transaction set.
3	HL02	734	O 1/12	Hierarchical Parent ID	Contains the number of the hierarchical parent of this HL segment in the transaction set.
I	HL03	735	M 1/2	Hierarchical Level Code	Code defining the characteristic of a level in a hierarchical structure. I = Item
O	HL04	736	O 1/1	Hierarchical Child Code	Code indicating whether there are hierarchical child data segments subordinate to the level being described. O = No subordinate HL Segment in this hierarchical level 1 = Additional Subordinate HL Data Segment in this Hierarchical Structure

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
LX				Assigned Number	(**This is an optional segment; used if a product is packed in a case having a UCC or UPC shipping container bar code**.) To reference a line number in a transaction set.
1	554	LX01	M 1/6	Assigned Number	Number assigned for differentiation within a transaction set.
MAN				Marks and Numbers	(**This is a conditionally optional segment; used if products are packed in a case**.) To indicate identifying marks and numbers for shipping containers.
GM	MAN01	88	ID 1/2	Marks and Numbers Qualifier	Code specifying the application or source of Marks and Numbers. GM = UCC-128 Serial Shipping Container Code Format UC = UPC Shipping Container Code (Interleaved 2 of 5)
234567890	MAN02	87	AN 1/45	Marks and Numbers	Marks and Numbers used to identify a shipment or parts of a shipment.
IT1				Baseline Item Data (Invoice)	Specify the basic and most frequently used line item data for the invoice and related transactions.
	IT101	350	O 1//11	Assigned Identification	Not used.
3	IT102	358	M 1/10	Quantity Invoiced	Number of units invoiced (supplier units)
EA	IT103	355	M 2/2	Unit or Basis of Measurement Code	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. EA = Each FT = Foot MR = Meter P4 = Four Pack P6 = Six Pack P8 = Eight Pack

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
1069	IT104	212	M 1/14	Unit Price	Price per unit of product, service, commodity, etc., with cents implied.
NT	IT105	639	O 2/2	Basis of Unit Price Code	Code identifying the type of unit price for an item. HF = Per Hundred Feet NT = Net Unit Price PF = Price Per Foot
BP	IT106	235	O 2/2	Product/Service ID Qualifier	Code identifying the type/source of the descriptive number used in product/service ID (IT107) BP = Buyer's Part Number
K1	IT107	234	O 1/30	Product/Service ID	Identifying number for a product or service (Buyer's)
VP	IT108	235	O 2/2	Product/Service ID Qualifier	Code identifying the type/source of the descriptive number used in product/service ID (IT109) VP = Vendor's (Seller's) Part Number
K1	IT109	234	O 1/30	Product/Service ID	Identifying number for a product or service (Seller's)
BL	IT110	235	O 2/2	Product/Service ID Qualifier	Code identifying the type/source of the descriptive number used in product/service ID (IT111) BL = Brand/Label
GAT	IT111	234	O 1/30	Product/Service ID	Three character Brand Code. IT110 and IT111 are to be used only when brand information is required by the customer.
PL	IT112	235	O 2/2	Product/Service ID Qualifier	Code identifying the type/source of the descriptive number used in product/service ID (IT113) PL = Purchaser's Order Line Number
2	IT113	234	O 1/30	Product/Service ID	Purchaser's Order Line Number. IT112 and IT113 are to be used only when the customer requires PO line number to identify the product being shipped.
SR	IT114	235	O 2/2	Product/Service ID Qualifier	Code identifying the type source of the descriptive number used in product/service ID (IT115) SR = Substitute Product Number

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
K1R	IT115	234	O 1/30	Product/Service ID	Substitute Product Number. IT114 and IT115 are to be used only when the supplier has substituted a part for the part ordered by the customer.
UP	IT116	235	O 2/2	Product/Service ID Qualifier	Code identifying the type/source of the descriptive number used in product/service ID (IT117) UP - UPC Consumer Package Code (1-5-5-1)
140159233036	IT117	234	O 1/30	Product/Service ID	UPC Consumer Package Code. IT116 and IT117 are to be used only if the customer requires the UPC to identify the product.
IT3				Additional Item Data	(**This is an optional segment; used if a product is shipped in a quantity other than that on the purchase order**.) To specify additional item details relating to variations between ordered and shipped quantities, or to specify alternate units of measures and quantities.
3	IT301	382	X 1/10	Number of Units Shipped	Numeric value of units shipped in manufacturer's shipping units for a line item.
EA	IT302	355	X 2/2	Unit or Basis of Measure Code	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. EA = Each FT = Foot MR = Meter P4 = Four Pack P6 = Six Pack P8 = Eight Pack
BP	IT303	368	X 2/2	Ship/Order Status Code	BP = Partial/balance back ordered CC = Shipped Complete CP = Partial/Balance Canceled BK = Shipment of previous back order
1	IT304	383	X 1/9	Quantity Difference	Numeric Value of variance between ordered and shipped quantities

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
PC	IT305	371	X 2/2	Change Reason Code	Code specifying the reason for a (price or) quantity change. MC = Pack/Size Measure Difference PC = Pack Difference UM = Unit of Measure Difference
P04				Item Physical Details	(**This is an optional segment**.) Used to specify the physical qualities, packaging weights and dimensions relating to an item.
3	P0401	356	O 1/6	Pack	Number of inner pack units per outer pack unit.
1	P0402	357	O 1/8	Size	Size of supplier units in pack.
EA	P0403	355	X 2/2	Unit of Measurement Code	Code identifying the basic unit of measure.
CTN25	P0404	103	O 5/5	Packaging Code	Code identifying the type of packaging; first part of code identifies the packaging form; second part of code identifies the packaging material. CTN = Carton 25 = Corrugated or Solid
PID				Product/Item Description	(**This is a conditionally optional segment; used if information was sent by the buyer in the purchase order**.) To describe a product or process encoded or free-form format.
F	PID01	349	M 1/1	Item Description Type	Code indicating the format of a description. F = Free-form
	PID02	750	O 2/3	Product/Process Characteristic Code	Not used.
	PID03	559	O 2/2	Agency Qualifier Code	Not used.
	PID04	751	O 1/12	Product Description Code	Not used.
5M1000 Polyflex	PID05	352	O 1/80	Description	Free-form description to clarify the related data elements and their content.

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
ITA				Allowance, Charge or Service	To specify allowances, charges or services.
C	ITA01	248	M 1/1	Allowance/Charge Indicator	Code which indicates an allowance or charge for the service specified. A = Allowance C = Charge N = No Allowance or Charge
	ITA02	559	O 2/2	Agency Qualifier Code	Not used.
XP	ITA03	560	O 2/10	Special Service Code	Code identifying the special service: FG = Free Goods XP = Expanded Service (Core Charge)
06	ITA04	331	M 2/2	Allowance/Charge Handle Code	Code indicating method of handling for an allowance or charge: 06 = Charge to be paid by Customer (use with XP) ZZ = Mutually Defined (use with FG)
	ITA05	341	O 1/16	Allowance Charge No.	Not used.
	ITA06	359	O 1/9	Allowance/Charge Rate	Not used.
465	ITA07	360	O 1/9	Allowance/Charge Total Amount	Total dollar amount for the allowance or charge, with cents implied.
	ITA08	378	O 1/1	Allowance/Charge Percent Qualifier	Not used.
	ITA09	332	O 1/6	Allowance/Charge Percent	Not used.
	ITA10	339	O 1/10	Allowance//Charge Quantity	Not used.
	ITA11	355	O 2/2	Unit/Basis Measure Code	Not used.
3	ITA12	380	O 1/15	Quantity	Numeric value of quantity. (Quantity of free goods or cores)

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
SE				Transaction Set Trailer	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).
33	SE01	96	M 1/10	Number of Included Segments	Total number of segments included in a transaction set including ST and SE segments.
121653	SE02	329	M 4/9	Transaction Set Control Number	Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. The transaction set control number in this trailer must match the value in the same data element in the corresponding transaction set header.
GE				Functional Group Trailer	To indicate the end of a functional group and to provide control information.
1	GE01	97	M 1/6	Number of Transaction Sets Included	Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.
1225	GE02	28	M 1/9	Group Control Number	Assigned number originated and maintained by the sender. The group control number in this trailer must match the value in the same data element in the corresponding functional group header.
IEA				Interchange Control Trailer	To define the end of an interchange of one or more functional groups and interchange-related control segments.
1	IEA01	116	M 1/5	Number of Functional Groups	A count of the number of functional groups included in a transmission.

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.

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EXAMPLE DATA ELEMENT	ELEMENT ID	ELEMENT NUMBER	FEATURES	NAME	COMMENTS
000007023	IEA02	112	M 9/9	Interchange Control Number	This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver and all third parties be able to maintain and audit trail of interchanges using this number. The interchange control number in this trailer must match the value in the same data element in the corresponding interchange control header.

Note: Suitable element values shown; Universe of values may be found in the EDI X12 Standards document.