856 Ship Notice/Manifest

Functional Group ID=SH

Introduction:

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

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	0100	ST	Transaction Set Header	M	1		<u> </u>
M	0200	BSN	Beginning Segment for Ship Notice	M	1		

Detail:

	Pos. <u>No.</u>	Seg. <u>ID</u>	Name LOOP ID - HL (SHIPMENT DETAILS)	Req. <u>Des.</u>	<u>Max.Use</u>	Loop Repeat 200000	Notes and Comments
M	0100	HL	Hierarchical Level	M	1		c1
Must Use	1100	TD1	Carrier Details (Quantity and Weight)	О	20		
Must Use	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	О	12		
			LOOP ID - TD3			12	
Must Use	1300	TD3	Carrier Details (Equipment)	О	1		
Must Use	1500	REF	Reference Identification	О	>1		
Must Use	2000	DTM	Date/Time Reference	O	10		
Must Use	2100	FOB	F.O.B. Related Instructions	O	1		
			LOOP ID - N1			200	
Must Use	2200	N1	Name	O	1		
	2400	N3	Address Information	O	2		
Must Use	2500	N4	Geographic Location	O	1		
			LOOP ID - HL (ORDER DETAILS)			200000	
M	0100	HL	Hierarchical Level	M	1		
Must Use	0500	PRF	Purchase Order Reference	O	1		
Must Use	1100	TD1	Carrier Details (Quantity and Weight)	O	20		
Must Use	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
	1500	REF	Reference Identification	O	>1		
			LOOP ID - HL (TARE DETAILS)			200000	
M	0100	HL	Hierarchical Level	M	1		
Must Use	1900	MAN	Marks and Numbers	O	>1		

			LOOP ID - HL (Pack Level)			200000
M	0100	HL	Hierarchical Level	M	1	
	0600	PO4	Item Physical Details	O	1	
Must Use	1900	MAN	Marks and Numbers	O	>1	
	2000	DTM	Date/Time Reference	O	10	
			LOOP ID - HL (Item Level)			200000
M	0100	HL	LOOP ID - HL (Item Level) Hierarchical Level	M	1	200000
M Must Use	0100 0200	HL LIN	· · · · · · · · · · · · · · · · · · ·	M O	1 1	200000
			Hierarchical Level		1 1 1	200000

Summary:

	Pos.	Seg.		Req.		Loop	Notes and
	No.	ID	<u>Name</u>	Des.	Max.Use	Repeat	Comments
Must Use	0100	CTT	Transaction Totals	0	1		n1
M	0200	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

- **1.** Each Transaction Set Shipment ID (BSN-02) must be unique. Shipments must also be from one Ship-from location to one Ship-to location.
- 2. Do not include Purchase Orders for different locations within the same shipment.
- 3. Number of line items (CTT-01) is the accumulation of the number of HL segments. If used, hash total (CTT-02) is the sum of the value of units shipped (SN1-02) for each SN1 segment.

Transaction Set Comments

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

Toys 'R Us - 856 Pick & Pack ASN

Segment: ST Transaction Set Header

Position: 0100

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

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

Syntax Notes: Comments:

Must Use	Ref. <u>Des.</u> ST-01	Data Element 143	Name Transaction Set Identifier Code Code uniquely identifying a Transaction Set		<u>Att</u> M	ribu 1	<u>tes</u> ID 3/3
			856	Ship Notice/Manifest			
Must Use	ST-02	329	Identifying	n Set Control Number control number that must be unique within the tra- group assigned by the originator for a transaction		1 on set	AN 4/9

Segment: BSN Beginning Segment for Ship Notice

Position: 0200

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

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

Semantic Notes: 1 BSN-03 is the date the shipment transaction set is created.

2 BSN-04 is the time the shipment transaction set is created.

Comments:

Must Use	Ref. <u>Des.</u> BSN-01	Data Element 353		on Set Purpose Code ifying purpose of transaction set	Att M	<u>ributes</u> 1 ID 2/2
			00	Original		
Must Use	BSN-02	396	-	Identification ontrol number assigned by the original shipper	M r to identify	1 AN 2/30 a specific
Must Use	BSN-03	373	Date Date express the calenda	ssed as CCYYMMDD where CC represents the ryear	M ne first two	1 DT 8/8 digits of
Must Use	BSN-04	337	HHMMSSI 59), $S = int$	essed in 24-hour clock time as follows: HHMND, or HHMMSSDD, where H = hours (00-23) teger seconds (00-59) and DD = decimal seconds as follows: D = tenths (0-9) and DD = hund	, M = minu nds; decima	tes (00- l seconds
Must Use	BSN-05	1005	Code indicate utilizes the	cal Structure Code ating the hierarchical application structure of a HL segment to define the structure of the tran beginning to the sent and must include the value '000 Shipment, Order, Packaging, Item (Pick & Pack)	saction set 01'.	1 ID 4/4 in set that

Segment: HL Hierarchical Level - SHIPMENT DETAILS

Position: 0100

Loop: HL Mandatory

Level: Detail
Usage: Mandatory

Max Use: 1

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

segments

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.

The HL segment defines a top-down/left-right ordered structure.

- 2 HL-01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL-01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL-01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL-02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL-03 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, HL-03 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.

Notes: This hierarchical level must be sent, and it should contain Shipment details.

	Ref.	Data			
	Des.	Element	<u>Name</u>	<u>Att</u>	<u>ributes</u>
Must Use	$\overline{\text{HL-01}}$	628	Hierarchical ID Number	M	1 AN 1/12
			A unique number assigned by the sender to identify a part	ticular data	segment
			in a hierarchical structure		
	HL-02	734	Hierarchical Parent ID Number	O	1 AN 1/12
			Identification number of the next higher hierarchical data segment being described is subordinate to	segment th	nat the data
Must Use	HL-03	735	Hierarchical Level Code	M	1 ID 1/2
			Code defining the characteristic of a level in a hierarchical	ıl structure	
			S Shipment		

Segment: TD1 Carrier Details (Quantity and Weight)

Position: 1100

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 20

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

Syntax Notes: 1 If TD1-01 is present, then TD1-02 is required.

- 2 If TD1-03 is present, then TD1-04 is required.
 3 If TD1-06 is present, then TD1-07 is required.
- 4 If either TD1-07 or TD1-08 is present, then the other is required.
 5 If either TD1-09 or TD1-10 is present, then the other is required.

Comments:

Notes: This segment must be sent. Multiple shipment-level TD1 segments should NOT be sent.

If the Shipment Payment Method is Collect (when FOB-01 = "CC"), then the shipment-level TD1-06, -07, -08, -09, and -10 must be sent.

		_	Data Element Summary		
	Ref. Des.	Data Element	Name	A 44	ributes
Must Use	<u>Des.</u> TD1-01	103	Packaging Code	0	1 AN 3/5
Widst Osc	101 01	100	Code identifying the type of packaging; Part 1: Packaging Fo	•	
			Packaging Material; if the Data Element is used, then Part 1		
			The TD1-01 must be sent.		
			CTN Carton		
			25 Corrugated or Solid		
Must Use	TD1-02	80	Lading Quantity	\mathbf{X}	1 No 1/7
			Number of units (pieces) of the lading commodity		
			Total number of cartons in shipment. The TD1-02 must be s	sent.	
	TD1-06	187	Weight Qualifier	О	1 ID 1/2
			Code defining the type of weight		
			The TD1-06 must be sent for Collect shipments.		
			G Gross Weight		
	TD1-07	81	Weight	\mathbf{X}	1 R 1/10
			Numeric value of weight		
			Total shipment gross weight. The TD1-07 must be sent for	Collect	shipments.
	TD1-08	355	Unit or Basis for Measurement Code	X	1 ID 2/2
			Code specifying the units in which a value is being expresse	d, or ma	nner in
			which a measurement has been taken		
			The TD1-08 must be sent for Collect shipments.		
			LB Pound		
	TD1-09	183	Volume	\mathbf{X}	1 R 1/8
			Value of volumetric measure		
			Total shipment cubic feet. The TD1-09 must be sent for Col	lect ship	oments.
			NOTE THE CHARLES IN COLUMN TO A COLUMN TO		
			NOTE: The sum of the individual carton volumes (PO4-08 than the total shipment volume when accounting for pallets.	s) could	l be less
	TD1-10	355	Unit or Basis for Measurement Code	X	1 ID 2/2
	101 10	300	Code specifying the units in which a value is being expresse		
			which a measurement has been taken	, OI IIIC	
			The TD1-10 must be sent for Collect shipments.		
			CF Cubic Feet		

Segment: TD5 Carrier Details (Routing Sequence/Transit Time)

Position: 1200

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 12

Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes: 1 At least one of TD5-02, TD5-04, TD5-05, TD5-06 or TD5-12 is required.

2 If TD5-02 is present, then TD5-03 is required.

Comments: 1 When specifying a routing sequence to be used for the shipment movement in lieu of

specifying each carrier within the movement, use TD5-02 to identify the party responsible for defining the routing sequence, and use TD5-03 to identify the actual routing sequence,

specified by the party identified in TD5-02.

Notes: This segment must be sent. Multiple shipment-level TD5 segments should NOT be sent.

			Data Element Summary		
	Ref.	Data			
	Des.	Element	<u>Name</u>	Att	<u>ributes</u>
Must Use	TD5-02	66	Identification Code Qualifier	\mathbf{X}	1 ID 1/2
			Code designating the system/method of code structure used for	r Iden	tification
			Code (67)		
			The TD5-02 must be sent.		
			2 Standard Carrier Alpha Code (SCAC)		
Must Use	TD5-03	67	Identification Code	X	1 AN 2/80
			Code identifying a party or other code		
			Carrier's SCAC. The TD5-03 must be sent.		

 $\textbf{Segment:} \quad \textbf{TD3} \; \text{Carrier Details (Equipment)}$

Position: 1300

Loop: TD3 Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

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

Syntax Notes: 1 Only one of TD3-01 or TD3-10 may be present.

If TD3-02 is present, then TD3-03 is required.

Comments:

Notes: This segment must be sent.

Must Use	Ref. <u>Des.</u> TD3-01	Data Element 40	Name Equipment Description Code Code identifying type of equipment used for shipment The TD3-01 must be sent.	Attr X		tes ID 2/2
Must Use	TD3-02	206	TL Trailer (not otherwise specified) Equipment Initial Prefix or alphabetic part of an equipment unit's identifying nur The TD2 02 must be sent	O mber	1	AN 1/4
Must Use	TD3-03	207	The TD3-02 must be sent. Equipment Number Sequencing or serial part of an equipment unit's identifying nunumeric form for equipment number is preferred) The TD3-03 must be sent.	X mber (j	1 pure	AN 1/10

Segment: REF Reference Identification

Position: 1500

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: >1

Purpose: To specify identifying information

Syntax Notes: 1 At least one of REF-02 or REF-03 is required.

Comments:

Notes: TRU-assigned Routing Number is required for Collect shipments only. (when FOB-01 =

"CC")

Additionally, separate REF segments must be sent for Bill of Lading Number and for

PRO Number for all shipments. Only 1 of each number should be sent.

Do NOT send multiple Bill of Lading, PRO or Routing Numbers.

Data Element Summary

Ref. Data

Des. Element Name Attributes

Must Use REF-01 128 Reference Identification Qualifier M 1 ID 2/3

Code qualifying the Reference Identification

For the Bill of Lading Number, either qualifier ("BL" or "BM") will be

acceptable. Do NOT use both.

BL or BM Government Bill of Lading or Bill of Lading Number

CN Carrier's Reference Number (PRO/Invoice)

RU Route Number

Must Use REF-02 127 Reference Identification X 1 AN 1/50

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier The REF-02 must be sent for each REF segment. Segment: DTM Date/Time Reference

Position: 2000

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 10

Purpose: To specify pertinent dates and times

Syntax Notes: 1 At least one of DTM-02, DTM-03 or DTM-05 is required.

Comments:

Notes: Two separate DTM segments must be sent: one for the Ship Date and one for the

Delivery Date.

Data Element Summary

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

The DTM-01 must be sent.
011 Shipped

067 Current Schedule Delivery

Must Use DTM-02 373 Date X 1 DT 8/8

Date expressed as CCYYMMDD where CC represents the first two digits of

the calendar year

The DTM-02 must be sent.

Segment: FOB F.O.B. Related Instructions

Position: 2100

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Purpose: To specify transportation instructions relating to shipment

Comments:

Notes: This segment must be sent.

Data Element Summary

Ref. Data

Des.ElementNameAttributesOB-01146Shipment Method of PaymentM1 ID 2/2

Must Use FOB-01 146 Shipment Method of Payment
Code identifying payment terms for transportation charges

The FOB-01 must be sent.

CC Collect

PP Prepaid (by Seller)

N1 Name **Segment:**

Position: 2200

> N1Optional (Must Use) Loop:

Level: Detail

Usage: Optional (Must Use)

Max Use:

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

Syntax Notes: At least one of N1-02 or N1-03 is required.

2 If either N1-03 or N1-04 is present, then the other is required.

Comments: 1

This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N1-04) must provide a key to the table maintained by the transaction processing party.

Two separate N1 loops must be sent: one for the Ship-from location and one for the Notes:

Ship-to location.

			Data ER	ament Summar y			
	Ref.	Data					
	Des.	Element	<u>Name</u>		<u>Attri</u>	bu	<u>tes</u>
Must Use	N1-01	98	Entity Identifier C	ode	M	1	ID 2/3
			Code identifying an	organizational entity, a physical location,	propert	y o	r an
			individual				
			The N1-01 must be	sent.			
			SF	Ship From			
			ST	Ship To			
Must Use	N1-02	93	Name		X	1	AN 1/60
			Free-form name				
			The N1-02 must be	sent.			
			When for the Ship-f	From location, this will be a free-form name	ie.		
			When for the Ship-t	o location, this should be the TRU locatio	n numbe	er.	
Must Use	N1-03	66	Identification Code		X		ID 1/2
			Code designating th	e system/method of code structure used for	r Identii	ica	ntion
			Code (67)				
			The N1-03 must be				
			9	D-U-N-S+4, D-U-N-S Number with Four Suffix	ır Chara	cte	r
Must Use	N1-04	67	Identification Code	e	\mathbf{X}	1	AN 2/80
			Code identifying a p	party or other code			
			The N1-04 must be	sent.			
			WH C 4 C1: (NT 1		
			•	From location, this should be the D-U-N-S	Number	ſ	
			followed by 4-chara	iciei suilla.			
			When for the Ship-t	o location, this must be the TRU D-U-N-S	S Numbe	er	
				igit TRU location number.			

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Segment: N3 Address Information

Position: 2400

Loop: N1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 2

Purpose: To specify the location of the named party

Comments:

Notes: Only one N3 segment should be sent per N1 segment. Do NOT send multiple N3

segments per N1.

	Ref.	Data		
	Des.	Element	<u>Name</u>	<u>Attributes</u>
Must Use	N3-01	166	Address Information Address information	M 1 AN 1/55
	N3-02	166	Address Information Address information	O 1 AN 1/55

Segment: N4 Geographic Location

Position: 2500

Loop: N1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

Purpose: To specify the geographic place of the named party
Syntax Notes: 1 Only one of N4-02 or N4-07 may be present.

Comments: 1 A combination of either N4-01 through N4-04, or N4-05 and N4-06 may be adequate to

specify a location.

2 N4-02 is required only if city name (N4-01) is in the U.S. or Canada.

Notes: An N4 segment must be sent with both the Ship-from N1 segment and the Ship-to N1

segment.

	Ref.	Data			
	Des.	Element	<u>Name</u>	<u>Attr</u>	<u>ibutes</u>
Must Use	N4-01	19	City Name Free-form text for city name	0	1 AN 2/30
Must Use	N4-02	156	State or Province Code Code (Standard State/Province) as defined by appropriate gov	X vernmen	1 ID 2/2 at agency
Must Use	N4-03	116	Postal Code Code defining international postal zone code excluding punct (zip code for United States)	O uation a	1 ID 3/15 and blanks

Segment: HL Hierarchical Level - ORDER DETAILS

Position: 0100

Loop: HL Mandatory

Level: Detail
Usage: Mandatory

Max Use: 1

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

segments

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.

The HL segment defines a top-down/left-right ordered structure.

- 2 HL-01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL-01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL-01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL-02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL-03 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, HL-03 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.

Notes: This hierarchical level must be sent, and it should contain Order details.

	Ref.	Data	·		
	Des.	Element	<u>Name</u>	<u>Attr</u>	<u>ributes</u>
Must Use	HL-01	628	Hierarchical ID Number	M	1 AN 1/12
			A unique number assigned by the sender to identify a particul in a hierarchical structure	ar data	segment
	HL-02	734	Hierarchical Parent ID Number	O	1 AN 1/12
			Identification number of the next higher hierarchical data segregment being described is subordinate to	ment tha	at the data
Must Use	HL-03	735	Hierarchical Level Code	M	1 ID 1/2
			Code defining the characteristic of a level in a hierarchical str	ucture	
			O Order		

Segment: PRF Purchase Order Reference

Position: 0500

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Purpose: To provide reference to a specific purchase order

Comments:

Notes: This segment must be sent.

Data Element Summary

Ref. Data **Attributes** Des. **Element Name Must Use PRF-01** 324 **Purchase Order Number** M 1 AN 1/22 Identifying number for Purchase Order assigned by the orderer/purchaser The PRF-01 must be sent. This should be the PO Number as sent in the BEG-03 of the Purchase Order. **Must Use PRF-04** 373 \mathbf{o} 1 DT 8/8 Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year Purchase Order Date. The PRF-04 must be sent.

This should be the PO Date as sent in the BEG-05 of the Purchase Order.

Segment: TD1 Carrier Details (Quantity and Weight)

Position: 1100

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 20

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

Syntax Notes: 1 If TD1-01 is present, then TD1-02 is required.

Comments:

Notes: This segment must be sent. Multiple order-level TD1 segments should NOT be sent for

an order.

Data Element Summary

Ref. Data **Element Name Attributes** Des. **Must Use TD1-01 Packaging Code** 1 AN 3/5 103 Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required The TD1-01 must be sent. **CTN** Carton 25 Corrugated or Solid **Must Use TD1-02** 80 X 1 N0 1/7 **Lading Quantity**

Number of units (pieces) of the lading commodity

Number of cartons for this order. The TD1-02 must be sent.

Segment: TD5 Carrier Details (Routing Sequence/Transit Time)

Position: 1200

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 12

Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes: 1 At least one of TD5-02, TD5-04, TD5-05, TD5-06 or TD5-12 is required.

2 If TD5-02 is present, then TD5-03 is required.

Comments:

1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD5-02 to identify the party responsible for defining the routing sequence, and use TD5-03 to identify the actual routing sequence, specified by the party identified in TD5-02.

Notes: This segment must be sent. Multiple order-level TD5 segments should NOT be sent for

an order.

			Data En	ement Summary		
	Ref.	Data				
	Des.	Element	<u>Name</u>		<u>Attri</u>	<u>butes</u>
Must Use	TD5-06	368	Shipment/Order S	tatus Code	\mathbf{X}	1 ID 2/2
			9	status of an order or shipment or the disp the quantity ordered and the quantity ship e sent.		•
			BP	Shipment Partial, Back Order to Ship or	n (Date)	
			CC	Shipment Complete on (Date)		
			CP	Partial Shipment on (Date), Considered	No Back	order

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Segment: Reference Identification

Position: 1500

Loop: HL Mandatory

Level: Detail
Usage: Optional
Max Use: >1

Purpose: To specify identifying information

Syntax Notes: 1 At least one of REF-02 or REF-03 is required.

Comments:

Notes: Only 1 REF segment containing the Invoice Number should be sent. Do NOT send

multiple Invoice Numbers in multiple REF segments for an order.

Data Element Summary

Ref. Data **Attributes** Des. **Element Name** REF-01 128 **Reference Identification Qualifier** 1 ID 2/3 M Code qualifying the Reference Identification Seller's Invoice Number REF-02 127 X 1 AN 1/50 **Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Your Invoice Number.

Segment: HL Hierarchical Level - TARE DETAILS

Position: 0100

Loop: HL Optional

Level: Detail
Usage: Mandatory

Max Use: 1

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

segments

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.

The HL segment defines a top-down/left-right ordered structure.

- 2 HL-01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL-01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL-01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL-02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL-03 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, HL-03 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.

Notes:

The tare-level loop is used to convey pallet information and is optional. If sent, this loop should contain an HL segment and one MAN segment.

One tare-level HL segments should be sent per pallet.

	Ref.	Data	·		
	Des.	Element	<u>Name</u>	Attr	<u>ibutes</u>
Must Use	HL-01	628	Hierarchical ID Number	M	1 AN 1/12
			A unique number assigned by the sender to identify a particula in a hierarchical structure	r data s	segment
	HL-02	734	Hierarchical Parent ID Number	0	1 AN 1/12
			Identification number of the next higher hierarchical data segment being described is subordinate to	ent tha	t the data
Must Use	HL-03	735	Hierarchical Level Code	M	1 ID 1/2
			Code defining the characteristic of a level in a hierarchical stru	cture	
			T Shipping Tare		

Segment: MAN Marks and Numbers

Position: 1900

Loop: HL Optional

Level: Detail

Usage: Mandatory (Must Use if sending Tare data)

Max Use: >1

Purpose: To indicate identifying marks and numbers for shipping containers

Comments: 1 When MAN-01 contains code "UC" (U.P.C. Shipping Container Code) and

MAN-05/MAN-06 contain a range of ID numbers, MAN-03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is

represented in the range in MAN-05/MAN-06.

Notes: If sending Tare (pallet) details, this segment must be sent. Only 1 MAN segment should

be sent per tare-level HL segment.

sent.

				2 4 4 4 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1			
	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>		<u>Att</u>	ribu	<u>ites</u>
Must Use	MAN-01	88	Marks an	nd Numbers Qualifier	\mathbf{M}	1	ID 1/2
			Code spec	cifying the application or source of Marks and Num	nbers (8	7)	
			If sending	Tare details, the MAN-01 must be sent.			
			W	Pallet Number			
Must Use	MAN-02	87		nd Numbers I numbers used to identify a shipment or parts of a	M shipme	_	AN 1/48
			UNIQUE	number for each pallet. If sending Tare details, th	e MAN	-02 ı	nust be

Segment: HL Hierarchical Level - PACK DETAILS

Position: 0100

Loop: HL Mandatory

Level: Detail
Usage: Mandatory

Max Use: 1

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

segments

Syntax 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

The HL segment defines a top-down/left-right ordered structure.

- 2 HL-01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL-01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL-01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL-02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL-03 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, HL-03 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.

Notes: This hierarchical level must be sent, and it should contain Pack (carton) details.

			Data Element Summary		
	Ref.	Data			
	Des.	Element	<u>Name</u>	<u>Attr</u>	<u>ibutes</u>
Must Use	HL-01	628	Hierarchical ID Number	M	1 AN 1/12
			A unique number assigned by the sender to identify a particula	r data s	segment
			in a hierarchical structure		
	HL-02	734	Hierarchical Parent ID Number	O	1 AN 1/12
			Identification number of the next higher hierarchical data segm	nent tha	t the data
			segment being described is subordinate to		
Must Use	HL-03	735	Hierarchical Level Code	M	1 ID 1/2
			Code defining the characteristic of a level in a hierarchical stru	cture	
			P Pack		

Toys 'R Us - 856 Pick & Pack ASN

Segment: PO4 Item Physical Details

Position: 0600

Loop: HL Mandatory

Level: Detail
Usage: Optional
Max Use: 1

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

Comments:

Data Element Summary

Ref.	Data			
Des.	Element	Name	<u>At</u>	<u>tributes</u>
PO4-01	356	Pack	0	1 N0 1/6

The number of inner containers, or number of eaches if there are no inner containers, per outer container

Segment: MAN Marks and Numbers

Position: 1900

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: >1

Purpose: To indicate identifying marks and numbers for shipping containers
Syntax Notes: 1 If either MAN-04 or MAN-05 is present, then the other is required.

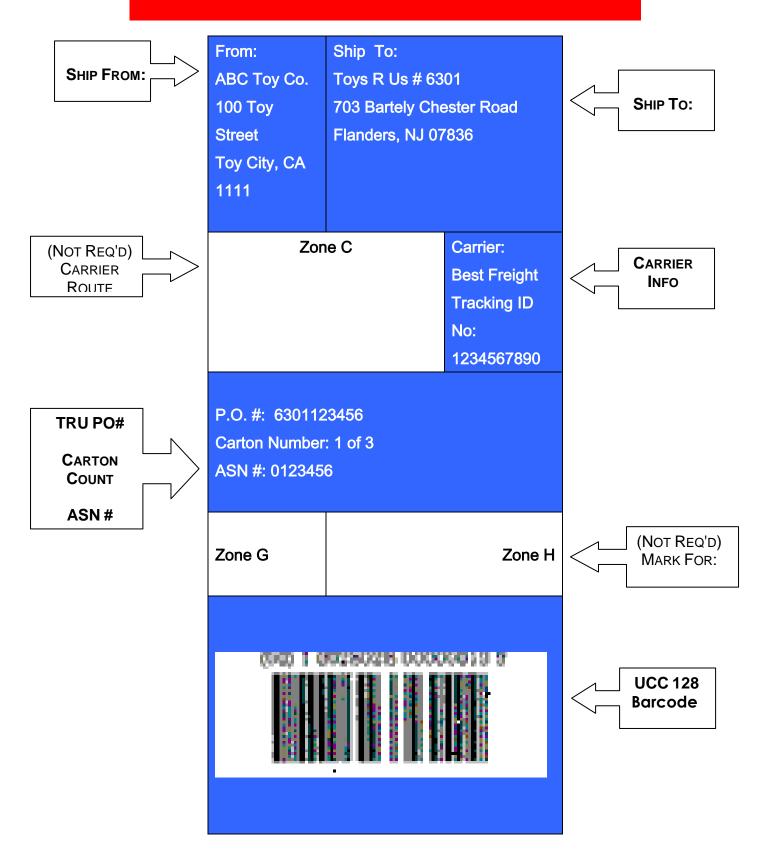
Comments:

Notes: This segment must be sent. Only 1 MAN segment should be sent per pack-level HL

segment.

	Ref.	Data						
	Des.	Element	Name	<u>Attri</u>	butes			
Must Use	MAN-01	88	Marks and Numbers Qualifier	M	1 ID 1/2			
	Code specifying the application or source of Marks and Numbers (87							
			The MAN-01 must be sent.					
			CP Carrier-Assigned Package ID Number					
Must Use	MAN-02	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a s	M shipment	1 AN 1/48			
Carrier-assigned code. Must be unique number for each carton. The Manust be sent.								
Must Use	MAN-04	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Num	X bers (87)	1 ID 1/2			
			The MAN-04 must be sent. Either qualifier ("GM" or "SM") Do NOT send both.	will acce	eptable.			
			GM or SM SSCC-18 & Application Identifier or S	hipper A	Assigned			
Must Use	MAN-05	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a s	X shipment	1 AN 1/48			
			Shipper-assigned code. Must be unique number for each cart must be sent.	on. The	MAN-05			

UCC-128 SHIPPING CONTAINER LABEL FORMAT



Toys 'R Us - 856 Pick & Pack ASN

Segment: DTM Date/Time Reference

Position: 2000

Loop: HL Mandatory

Level: Detail
Usage: Optional
Max Use: 10

Purpose: To specify pertinent dates and times

Syntax Notes: 1 At least one of DTM-02, DTM-03 or DTM-05 is required.

Comments:

	Ref. Des.	Data Element	Name	·	Attr	ibut	tes
Must Use	DTM-01	374	Date/Time Qualif	ïer	M	1	ID 3/3
			Code specifying ty	pe of date or time, or both date and time			
			036	Expiration - Date coverage expires			
Must Use	DTM-02	373	Date Date expressed as the calendar year	CCYYMMDD where CC represents the fire	X rst two d	_	DT 8/8 s of

Segment: HL Hierarchical Level - ITEM DETAILS

Position: 0100

Loop: HL Mandatory

Level: Detail
Usage: Mandatory

Max Use: 1

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

segment.

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.

The HL segment defines a top-down/left-right ordered structure.

- 2 HL-01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL-01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL-01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL-02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL-03 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, HL-03 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.

Notes: This hierarchical level must be sent, and it should contain Item details.

	Ref.	Data		
	Des.	Element	<u>Name</u> <u>At</u>	<u>tributes</u>
Must Use	HL-01	628	Hierarchical ID Number M	1 AN 1/12
			A unique number assigned by the sender to identify a particular data	a segment
			in a hierarchical structure	
	HL-02	734	Hierarchical Parent ID Number O	1 AN 1/12
			Identification number of the next higher hierarchical data segment t	hat the data
			segment being described is subordinate to	
Must Use	HL-03	735	Hierarchical Level Code M	1 ID 1/2
			Code defining the characteristic of a level in a hierarchical structure	<u>;</u>
			I Item	

Segment: LIN Item Identification

Position: 0200

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Purpose: To specify basic item identification data

Syntax Notes: 1 If either LIN-04 or LIN-05 is present, then the other is required.

Comments: 1 LIN-02 through LIN-31 provide for fifteen different product/service IDs for each item. For

example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: This segment must be sent and it must contain both a valid TRU SKN and a valid

UPC/EAN number.

			Data Ele	ement Summary			
	Ref.	Data					
	Des.	Element	Name		Attri	bu	tes
Must Use	LIN-02	235	Product/Service ID	Oualifier	M	1	ID 2/2
				e type/source of the descriptive number us	sed in		
			Product/Service ID				
				e sent. It should contain either the "EN" of	or the "U	P"	
			qualifier.				
			EN	EAN/UCC - 13			
				Data structure for the 13 digit EAN.UCG	C (EAN		
				International. Uniform Code Council) G		de	
				Identification Number (GTIN)			
			UP	UCC - 12			
				Data structure for the 12 digit EAN.UCG	C (EAN		
				International. Uniform Code Council) G		de	
				Identification Number (GTIN). Also kn			
				Universal Product Code (U.P.C.)			
Must Use	LIN-03	234	Product/Service ID	· · · · · · · · · · · · · · · · · · ·	M	1	AN 1/48
			Identifying number	for a product or service			
			The LIN-03 must be	e sent, and it should contain either the EA	N/UCC-	13	or
				h Check Digit. (1-5-5-1)			
			If sending the UPC,	this should be the value that was sent wit	th the "U	P"	
			qualifier within the	PO1 segment of the Purchase Order			
Must Use	LIN-04	235	Product/Service ID		X	1	ID $2/2$
				e type/source of the descriptive number us	sed in		
			Product/Service ID				
			The LIN-04 must be	e sent and it should contain the "IT" quali	fier.		
			IT	Buyer's Style Number			
Must Use	LIN-05	234	Product/Service ID		\mathbf{X}	1	AN 1/48
			Identifying number	for a product or service			
			The LIN-05 must be	e sent and it should contain the TRU SKN	ſ.		
			This should be the v	ralue that was sent with the "IT" qualifier	within th	ne I	PO1
			segment of the Purc				
			-				

Segment: SN1 Item Detail

Position: 0300

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Purpose: To specify line-item detail relative to shipment

Comments: 1 SN1-03 defines the unit of measurement for both SN1-02 and SN1-04.

Notes: This segment must be sent.

	Ref.	Data			
	Des.	<u>Element</u>	<u>Name</u>	<u>Attr</u>	<u>ibutes</u>
Must Use	SN1-02	382	Number of Units Shipped	M	1 R 1/10
			Numeric value of units shipped in manufacturer's shipping un or transaction set		line item
			Total pieces for this item in this carton. The SN1-02 must be	sent.	
Must Use	SN1-03	355	Unit or Basis for Measurement Code	M	1 ID 2/2
			Code specifying the units in which a value is being expressed	, or mar	nner in
			which a measurement has been taken		
			The SN1-03 must be sent.		
			EA Each		

Segment: PO4 Item Physical Details
Position: 0600

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Ref.

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

Syntax Notes: 1 If either PO4-02 or PO4-03 is present, then the other is required.
2 If PO4-05 is present, then PO4-06 is required.

- 3 If either PO4-06 or PO4-07 is present, then the other is required.
 4 If either PO4-08 or PO4-09 is present, then the other is required.
- 5 If either PO4-10, PO4-11 or PO4-12 is present, then PO4-13 is required.
- 6 If PO4-13 is present, then at least one of PO4-10, PO4-11 or PO4-12 is required.
- 7 If PO4-17 is present, then PO4-16 is required.

Comments: 1 PO4-13 defines the unit of measure for PO4-10, PO4-11 and PO4-12.

Notes: This segment must be sent.

Data

	Des.	Element	<u>Name</u>		<u>Att</u>	Attributes		
Must Use	PO4-01	356	Pack		O	1 N0 1/6		
				nner containers, or number of eaches if there	are no	inner		
			containers, per o					
			The PO4-01 mu	st be sent.				
			This should be t	he value from the PO4-01 in the Purchase O	rder.			
Must Use	PO4-04	103	Packaging Cod		X	1 AN 3/5		
			Code identifying the type of packaging; Part 1: Packaging Form, Part 2:					
			Packaging Material; if the Data Element is used, then Part 1 is always required					
			The PO4-04 must be sent.					
			CTN	Carton				
			25	Corrugated or Solid				
	PO4-05	187	Weight Qualific	er	O	1 ID 1/2		
			Code defining the type of weight					
			G	Gross Weight				
Must Use	PO4-06	384	Gross Weight p	oer Pack	\mathbf{X}	1 R 1/9		
			Numeric value of gross weight per pack					
			The PO4-06 mu	st be sent.				
Must Use	PO4-07	355		or Measurement Code	X	1 ID 2/2		
			Code specifying the units in which a value is being expressed, or manner in					
			which a measurement has been taken The PO4-07 must be sent.					
3.6 4.77	DO 4 00	205	LB	Pound	T 7	1 70 1/0		
Must Use	PO4-08	385	Gross Volume	per Pack of gross volume per pack	X	1 R 1/9		
			The PO4-08 mu	1 1				
Must Use	PO4-09	255			X	1 ID 2/2		
Must Use	PO4-09	355		or Measurement Code the units in which a value is being expressed				
				ement has been taken	<i>1</i> , 01 1110	umer m		
			The PO4-09 must be sent.					
			CF	Cubic Feet				
	PO4-10	82	Length		X	1 R 1/8		
			Largest horizont	tal dimension of an object measured when th	e object	t is in the		
			upright position	J	3			

PO4-11	189	Width	X	1	R 1/8				
		Shorter measurement of the two horizontal dimensions meas object in the upright position	ured w	ith th	e				
PO4-12	65	Height	\mathbf{X}	1	R 1/8				
		Vertical dimension of an object measured when the object is in the upright position							
PO4-13	355	Unit or Basis for Measurement Code	X	1	ID 2/2				
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken							
PO4-14	810	Inner Pack	O	1	N0 1/6				
		The number of eaches per inner container							
		If inner packs are being sent, this is the number of selling units within one the inner packs.							
		This should be the value from the PO4-14 in the Purchase Order.							
PO4-18	1470	Number	O	1	N0 1/9				
		A generic number							
		Total number of cartons for this item.							

Segment: CTT Transaction Totals

Position: 0100

Loop:

Level: Summary

Usage: Optional (Must Use)

Max Use: 1

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

Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and

correctness.

Notes: This segment must be sent.

Data Element Summary

Ref. Data <u>Des. Element</u> <u>Name</u>

Des.ElementNameAttributesMust UseCTT-01354Number of Line ItemsM1N01/6

Total number of line items in the transaction set

The CTT-01 should contain the total number of hierarchical levels (HL

segments) within the transaction set.

Toys 'R Us - 856 Pick & Pack ASN

Segment: **SE** Transaction Set Trailer

Position: 0200

Loop:

Level: Summary Usage: Mandatory

Max Use: 1

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments

(including the beginning (ST) and ending (SE) segments)

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

	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	Attributes				
Must Use	SE-01	96	Number of Included Segments	M	1	N0 1/10		
			Total number of segments included in a transaction set inclusegments	ding ST	and S	SE		
Must Use	SE-02	329	Transaction Set Control Number	M	1	AN 4/9		
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set					

IEA*1*000003548

```
*ZZ*YOUR-ID-HERE *12*6063711145 *070910*0917*U*00200*000003548*0*P*>
ISA*00*
GS*SH*YOUR-ID-HERE*6063711145*20070910*0917*3548*X*004030
ST*856*35480004
BSN*00*379913565*20070910*0916*0001
HL*1**S
TD1*CTN25*5****G*3.85*LB*5*CF
TD5**2*SCAC
TD3*TL*SCAC*53285724
REF*BM*00454860310576359
REF*CN*8913447
REF*RU*DST123456789
DTM*011*20070910
DTM*067*20070912
FOB*CC
N1*SF*YOUR COMPANY*9*123456789
N4*SANTA FE SPRING*CA*90670
N1*ST*9301*9*0643364729301
N3*1 GEOFFREY WAY
N4*GROVEPORT*OH*43125
HL*2*1*O
PRF*9301693412***20070822
TD1*CTN25*5
TD5*****CC
REF*IV*3033029791
HL*3*2*T
MAN*W*9876543210
HL*4*3*P
MAN*CP*0123456789765322**GM*00000454969073062148
HL*5*4*I
LIN**UP*392048119082*IT*681703
SN1**8*EA
PO4*8***CTN25*G*.77*LB*1*CF*2.125*7.75*5.5*IN*2
HL*6*3*P
MAN*CP*0123456789765470**GM*00000454969073062155
HL*7*6*I
LIN**UP*392048119082*IT*684764
SN1**8*EA
PO4*8***CTN25*G*.77*LB*1*CF*2.125*7.75*5.5*IN
HL*8*3*P
MAN*CP*0123456789765491**GM*00000454969073062162
HL*9*8*I
LIN**UP*392048119082*IT*684764
SN1**8*EA
PO4*8***CTN25*G*.77*LB*1*CF*2.125*7.75*5.5*IN
HL*10*3*P
MAN*CP*0123456789765573**GM*00000454969073062179
HL*11*10*I
LIN**UP*392048119082*IT*684764
SN1**8*EA
PO4*8***CTN25*G*.77*LB*1*CF*2.125*7.75*5.5*IN
HL*12*3*P
MAN*CP*0123456789765602**GM*00000454969073062186
HL*13*12*I
LIN**UP*392048119082*IT*684764
SN1**8*EA
PO4*8***CTN25*G*.77*LB*1*CF*2.125*7.75*5.5*IN
CTT*13
SE*55*35480004
GE*1*3548
```