



## **EDI Specifications**

**X12 4010 856**

# **Advanced Shipping Notification**

**Casey's Inc.**

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# 856

## Ship Notice/Manifest

### Functional Group = SH

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

#### Heading:

Pos	ID	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1			Required
	GS	Functional Group Header	M	1			Required
010	ST	Transaction Set Header	M	1			Required
020	BSN	Beginning Segment for Ship Notice	M	1			Required
040	DTM	Date/Time Reference	O	1			Required
040	DTM	Date/Time Reference	O	1			Desired

#### Detail:

Pos	ID	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - HL					200000		
010	HL	Hierarchical Level – Shipment Level	M	1			Required
050	PRF	Purchase Order Reference	O	1			Required
110	TD1	Carrier Details (Quantity & Weight)	O	20			Required
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			Required
130	TD3	Carrier Details (Equipment)	O	1			Desired
140	TD4	Carrier Details (Special Handling)	O	1			Desired
150	REF	Reference Identification	O	1			Required
N1 LOOP					200		
220	N1	Party Identification	M	1			Required
260	REF	Reference Identification	O	1			Required
280	FOB	F.O.B. Related Instructions	O	1			Required
N1 LOOP					200		
220	N1	Party Identification	M	1			Required
260	REF	Reference Identification	O	1			Required
280	FOB	F.O.B. Related Instructions	O	1			Required
N1 LOOP					200		
220	N1	Party Identification	M	1			Required
260	REF	Reference Identification	O	1			Required
280	FOB	F.O.B. Related Instructions	O	1			Required
LOOP ID - HL					200000		
010	HL	Hierarchical Level – Tare Level	M	1			Required
1900	MAN	Marks and Numbers Information	O	>1			Required

LOOP ID - HL		200000			
010	HL	Hierarchical Level – Item Level	M	1	Required
020	LIN	Item Identification	O	1	Required
030	SN1	Item Detail (Shipment)	O	1	Required
070	PID	Product/Item Description	O	1	Required

**Summary:**

010	CTT	Transaction Totals	M	1	Required
020	SE	Transaction Set Trailer	M	1	Required
	GE	Functional Group Trailer	M	1	Required
	IEA	Interchange Control Trailer	M	1	Required

# ISA Interchange Control Header

<b>Pos:</b>	<b>Max: 1</b>
<b>Heading – Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 16</b>

**User Option:** Required

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

## Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	<b>Authorization Information Qualifier</b>	M	ID	2/2	Required
		<b>Description:</b> Code to identify the type of information in the Authorization Information.				
		<b>Code</b>		<b>Name</b>		
		00		No Authorization Information Present (No Meaningful Information in I02)		
ISA02	I02	<b>Authorization Information</b>	M	AN	10/10	Required
		<b>Description:</b> Information used for additional identification or authorization of the interchange sender or the data in the interchange. The type of information is set by the Authorization Information Qualifier (I01).				
ISA03	I03	<b>Security Information Qualifier</b>	M	ID	2/2	Required
		<b>Description:</b> Code to identify the type of information in the Security Information.				
		<b>Code</b>		<b>Name</b>		
		00		No Authorization Information Present (No Meaningful Information in I04)		
ISA04	I04	<b>Security Information</b>	M	AN	10/10	Required
		<b>Description:</b> This is used for identifying the security information about the interchange sender or the data in the interchange. The type of information is set by the Security Information Qualifier (I03)				
ISA05	I05	<b>Interchange ID Qualifier</b>	M	ID	2/2	Required
		<b>Description:</b> Code to identify the type of information in the Security Information.				
		<b>Code</b>		<b>Name</b>		
		?		Sender's ISA qualifier		
ISA06	I06	<b>Interchange Sender ID</b>	M	AN	15/15	Required
		<b>Description:</b> Identification code published by the sender for other parties to use as the receiver ID to route data to them. The sender always codes this value in the sender ID element.				
		<b>Code</b>		<b>Name</b>		
		?		Sender's ISA ID		
ISA07	I07	<b>Interchange ID Qualifier</b>	M	ID	2/2	Required
		<b>Description:</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified.				
		<b>Code</b>		<b>Name</b>		
		12		Telephone		

01 Duns (Dun &amp; Bradstreet)

ISA08	I08	<b>Interchange Receiver ID</b>	M	AN	15/15	Required
<p><b>Description:</b> Identification code published by the receiver of the data. When sending, it is used by the sender as their sending ID. Thus, other parties sending to them will use this as a receiving ID to route data to them.</p> <p><b>Code</b>            <b>Name</b></p> <p>5159656100    Telephone</p> <p>5159656200    Telephone</p> <p>022010664     Duns (Dun &amp; Bradstreet)</p>						
ISA09	I09	<b>Interchange Date</b>	M	DT	6/6	Required
<p><b>Description:</b> Date of the interchange.</p>						
ISA10	I10	<b>Interchange Time</b>	M	TM	4/4	Required
<p><b>Description:</b> Time of the interchange.</p>						
ISA11	I11	<b>Interchange Control Standards Identifier</b>	M	ID	1/1	Required
<p><b>Description:</b> Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer.</p> <p><b>Code</b>            <b>Name</b></p> <p>U                    U.S. EDI Community of ASC X12, TDCC, and UCS</p>						
ISA12	I12	<b>Interchange Control Version Number</b>	M	ID	5/5	Required
<p><b>Description:</b> Code specifying the version number of the interchange control segments.</p> <p><b>Code</b>            <b>Name</b></p> <p>00401              Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997.</p>						
ISA13	I13	<b>Interchange Control Number</b>	M	N0	9/9	Required
<p><b>Description:</b> A control number assigned by the interchange sender</p>						
ISA14	I14	<b>Acknowledgement Requested</b>	M	ID	1/1	Required
<p><b>Description:</b> Code sent by the sender to request and interchange acknowledgement.</p> <p><b>Code</b>            <b>Name</b></p> <p>0 or 1              0 = No acknowledgement needed. 1 = Acknowledgement requested</p>						
ISA15	I15	<b>Usage Indicator</b>	M	ID	1/1	Required
<p><b>Description:</b> Code to indicate whether data enclosed by this interchange envelope is test, production, or information.</p> <p><b>Code</b>            <b>Name</b></p> <p>P or T              P = Production Data. T = Test Data</p>						
ISA16	I16	<b>Component Element Separator</b>	M	AN	1/1	Required
<p><b>Description:</b> Type is not applicable. The component element separator is a delimiter and not a data element. This field provides delimiter used to separate component data elements within a composite data structure. This value must be different than the data element separator and the segment terminator.</p> <p><b>Code</b>            <b>Name</b></p> <p>*                    Asterisk</p>						



## Functional Group Header

<b>Pos:</b>	<b>Max: 1</b>
<b>Heading – Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 8</b>

**User Option:** Required

**Purpose:** To indicate the beginning of a functional group and to provide control information.

### Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	<b>Functional Identifier Code</b>	M	ID	2/2	Required
		<b>Description:</b> Code identifying a group of application related transaction sets.				
		<b>Code</b>		<b>Name</b>		
		SH		Ship Notice/Manifest (856)		
GS02	142	<b>Application Sender's Code</b>	M	AN	2/15	Required
		<b>Description:</b> Code identifying party sending transmission. Codes agreed to by trading partners.				
		<b>Code</b>		<b>Name</b>		
		?		Sender's GS ID		
GS03	124	<b>Application Receiver's Code</b>	M	AN	2/15	Required
		<b>Description:</b> Code identifying party receiving transmission. Codes agreed to by trading partners.				
		<b>Code</b>		<b>Name</b>		
		5159656100		Telephone		
		5159656200		Telephone		
		022010664		Duns (Dun & Bradstreet)		
GS04	373	<b>Date</b>	M	DT	8/8	Required
		<b>Description:</b> Date expressed as CCYYMMDD.				
GS05	337	<b>Time</b>	M	TM	4/8	Required
		<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD. Where H = Hours (00-23), M = Minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds. Decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99).				
GS06	28	<b>Group Control Number</b>	M	N0	1/9	Required
		<b>Description:</b> Assigned number originated and maintained by the sender.				
GS07	455	<b>Responsible Agency Code</b>	M	ID	1/2	Required
		<b>Description:</b> Code identifying the issuer of the standard. This code is used in conjunction with Data Element 480				
		<b>Code</b>		<b>Name</b>		
		X		Accredited Standards Committee X12		
GS08	480	<b>Version / Release / Industry Identifier Code</b>	M	AN	1/12	Required

**Description:** Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments. If code in DE455 in GS segment is X, then in DE480 positions 1-3 are the version number, positions 4-6 are the release and subrelease, level of the version, and positions 7-12 are the industry or trade association identifiers (optionally assigned by the user). If code in DE455 in GS segment is T, then other formats are allowed.

<b><u>Code</u></b>	<b><u>Name</u></b>
004010	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997.

**ST****Transaction Set Header**

Pos: 010	Max: 1
Heading – Mandatory	
Loop: N/A	Elements: 2

**User Option:** Required**Purpose:** To indicate the start of a transaction set and to assign a control number.**Element Summary:**

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	<b>Transaction Set Identifier Code</b>	M	ID	3/3	Required
		<b>Description:</b> Code uniquely identifying a Transaction Set				
		<b>Code</b>		<b>Name</b>		
		856		Ship Notice/Manifest		
ST02	329	<b>Transaction Set Control Number</b>	M	AN	4/9	Required
		<b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set.				



**BSN****Beginning Segment for  
Ship Notice**

Pos: 020	Max: 1
Heading – Mandatory	
Loop: N/A	Elements: 4

**User Option:** Required**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set.**Element Summary:**

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BSN01	353	<b>Transaction Set Purpose Code</b>	M	ID	2/2	Required
		<b>Description:</b> Code identifying the purpose of transaction set				
		<u>Code</u>		<u>Name</u>		
		00		Original		
BSN02	396	<b>Shipment Identification</b>	M	AN	2/15	Required
		<b>Description:</b> A unique control number assigned by the original shipper to identify a specific shipment. This number should not be repeated within a one-year timeframe.				
		<u>Code</u>		<u>Name</u>		
		?		BOL Number associated with the shipment		
BSN03	373	<b>Date</b>	M	DT	8/8	Required
		<b>Description:</b> Date expressed as CCYYMMDD				
BSN04	337	<b>Time</b>	M	TM	4/4	Required
		<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, Where H = hours (00-23), M = minutes (00-59).				

# DTM Date/Time Reference

Pos: 040	Max: 1
Heading – Mandatory	
Loop: N/A	Elements: 3

**User Option:** Required

**Purpose:** To specify pertinent dates and times

## Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max	Usage
DTM01	374	<b>Date/Time Qualifier</b>	M	ID	3/3	Required
		<b>Description:</b> Code specifying the type of both date and time				
		<b>Code</b>		<b>Name</b>		
		011		Shipped		
DTM02	373	<b>Date</b>	X	DT	8/8	Required
		<b>Description:</b> Date expressed as CCYYMMDD				
DTM03	337	<b>Time</b>	X	TM	4/4	Required
		<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, where H = hours (00-23), M = minutes (00-59).				

# DTM Date/Time Reference

Pos: 040	Max: 1
Heading – Mandatory	
Loop: N/A	Elements: 3

**User Option:** Required

**Purpose:** To specify pertinent dates and times

## Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max	Usage
DTM01	374	<b>Date/Time Qualifier</b>	M	ID	3/3	Required
		<b>Description:</b> Code specifying the type of both date and time				
		<b>Code</b>		<b>Name</b>		
		017		Estimated Delivery		
DTM02	373	<b>Date</b>	X	DT	8/8	Required
		<b>Description:</b> Date expressed as CCYYMMDD				
DTM03	337	<b>Time</b>	X	TM	4/4	Required
		<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, where H = hours (00-23), M = minutes (00-59).				

## Syntax:

R0202305 – At least one of DTM02, DTM03, or DTM05 is required.

# Loop HL

<b>Pos: 010</b>	<b>Repeat: 200000</b>
<b>Mandatory</b>	
<b>Loop: HL</b>	<b>Elements: N/A</b>

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

## Loop Summary:

Pos	ID	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level – Shipment Level	M	1		Required
050	PRF	Purchase Order Reference	O	1		Required
110	TD1	Carrier Details (Quantity & Weight)	O	20		Required
120	TD5	Carrier Details (Routing Sequence)	O	12		Required
130	TD3	Carrier Details (Equipment)	O	1		Desired
140	TD4	Carrier Details (Special Handling)	O	1		Desired
150	REF	Reference Identification	O	1		Required
		Loop N1	O		200	Required
		Loop N1	O		200	Required
		Loop N1	O		200	Required

# HL Hierarchical Level – Shipment Level

<b>Pos: 010</b>	<b>Max: 1</b>
<b>Detail – Mandatory</b>	
<b>Loop: HL</b>	<b>Elements: 3</b>

**User Option:** Required

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

## Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max	Usage
HL01	628	<b>Hierarchical ID Number</b> <b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.	M	AN	1/12	Required
HL02	734	<b>Hierarchical Parent ID Number</b> <b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.	O	AN	1/12	Optional
HL03	735	<b>Hierarchical Level Code</b> <b>Description:</b> Code defining the characteristic of a level in a hierarchical structure.	M	ID	1/2	Required
		<b>Code</b> <b>Name</b>				
		S                              Shipment				

# PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

**User Option:** Required

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

## Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	<b>Purchase Order Number</b>	M	AN	1/22	Required
		<b>Description:</b> Identifying number for Purchase Order assigned by the purchaser.				
PRF04	373	<b>Date</b>	O	DT	8/8	Desired
		<b>Description:</b> Code defining the characteristic of a level in a hierarchical structure.				
		<u>Code</u>		<u>Name</u>		
				Requested Delivery Date		

# TD1

## Carrier Detail (Quantity & Weight)

Pos: 110                      Max: 1  
 Detail – Optional  
 Loop: HL                      Elements: 2

**User Option:** Required

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

### Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD101	103	<b>Packaging Code</b>	O	AN	3/3	Required
		<b>Description:</b> Code identifying the type of packaging. Part 1 = Packaging Form and Part 2 = Packaging Material.				
		<b>Code</b>		<b>Name</b>		
		PLT		Pallet		
		CAS		Case		
TD102	80	<b>Lading Quantity</b>	X	N0	1/7	Required
		<b>Description:</b> Number of units (pieces) of the lading commodity				

# TD5 Carrier Detail (Routing Seq. / Transit Time)

Pos: 120	Max: 1
Detail - Optional	
Loop: HL	Elements: 6

**User Option:** Required

**Purpose:** To specify the carrier and sequence of routing and provide transit time information.

## Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max	Usage
TD501	133	<b>Routing Sequence Code</b>	O	ID	1/2	Required
		<b>Description:</b> Code specifying the relationship of a carrier to a specific shipment movement.				
		<b>Code</b>		<b>Name</b>		
		B		Origin/Delivery Carrier (Any Mode)		
		1		1 <sup>st</sup> Carrier after Origin Carrier		
TD504	91	<b>Transportation Method/Type Code</b>	X	ID	1/2	Required
		<b>Description:</b> Code specifying the method/type of transportation for the shipment.				
		<b>Code</b>		<b>Name</b>		
		K		Backhaul		
		SR		Supplier Truck		
		M		Motor (Common Carrier)		
TD507	309	<b>Location Qualifier</b>	O	ID	1/2	Required
		<b>Description:</b> Code identifying type of location				
		<b>Code</b>		<b>Name</b>		
		DC		Distribution Center		
TD508	310	<b>Location Identifier</b>	X	AN	1/30	Required
		<b>Description:</b> Code identifying type of location				
		<b>Code</b>		<b>Name</b>		
				DUNS + Suffix		
TD509	731	<b>Transit Direction Code</b>	O	ID	2/2	Desired
		<b>Description:</b> Code identifying the point of origin and point of direction.				
		<b>Code</b>		<b>Name</b>		
		SB		Seller to Buyer		
		SS		Seller to Subcontractor		
TD510	732	<b>Transit Time Direction Qualifier</b>	O	ID	2/2	Desired
		<b>Description:</b> Code specifying the value of time used to measure the transit time.				
		<b>Code</b>		<b>Name</b>		
		CD		Calendar Days		
TD511	733	<b>Transit Time</b>	X	R	1/4	Desired
		<b>Description:</b> The numeric amount of transit time.				

# TD3 Carrier Detail (Equipment)

Pos: 130                      Max: 1  
 Detail - Optional  
 Loop: HL                      Elements: 2

**User Option:** Optional

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

## Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD308	407	<b>Seal Status Code</b>	O	ID	2/2	Desired
		<b>Description:</b> Code indicating condition of door seal upon arrival.				
		<b>Code</b>				<b>Name</b>
		01				Intact
		02				Broken
TD309	225	<b>Seal Number</b>	O	AN	2/15	Desired
		<b>Description:</b> Unique number on seal used to close a shipment.				

# TD4 Carrier Detail (Special Handling)

Pos: 140	Max: 1
Detail - Optional	
Loop: HL	Elements: 4

**User Option:** Optional

**Purpose:** To specify transportation special handling requirements, or hazardous materials information, or both.

## Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD401	152	<b>Special Handling Code</b>	X	ID	2/3	Desired
<b>Description:</b> Code specifying special transportation handling instructions.						
		<b><u>Code</u></b>	<b><u>Name</u></b>			
		FL	Flammable			
		MRF	Refrigerated			



# REF Reference Identification

Pos: 150	Max: 1
Detail – Optional	
Loop: HL	Elements: 3

**User Option:** Required

**Purpose:** To specify identifying information

## Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Required
		<b>Code</b> <b>Name</b> BM                Bill of Lading Number				
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/80	Required
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content.	X	AN	1/80	Required

# Loop N1

Pos: 220	Repeat:200
Loop: N1	Elements: N/A

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

## Loop Summary:

Pos	ID	Segment Name	Req	Max Use	Repeat	Usage
220	N1	Name	O	1		Required
260	REF	Reference Identification	O	1		Required
280	F.O.B	FOB Related Instructions	O	1		Required

# N1

## Name

Pos: 220	Max: 1
Loop: N1	Elements: 4

**User Option:** Required

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

## Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max	Usage
N101	98	<b>Entity Identifier Code</b>	M	ID	2/3	Required
		<b>Description:</b> Code identifying an organizational entity, a physical location, property, or an individual.				
		<b>Code</b> <b>Name</b>				
		MP                  Manufacturing Plant				
N102	93	<b>Name</b>	X	AN	1/60	Desired
		<b>Description:</b> Free-form name				
N103	66	<b>Identification Code Qualifier</b>	X	ID	1/2	Required
		<b>Description:</b> Code designating the system/method of code structure used for Identification Code.				
		<b>Code</b> <b>Name</b>				
		UL                  Cross-listed Course Number				
		UR                  Unit Relief Number				
N104	67	<b>Identification Code</b>	X	AN	2/80	Required
		<b>Description:</b> Code identifying a party or other code.				

# REF Reference Identification

Pos: 260	Max: 1
Detail – Optional	
Loop: HL	Elements: 3

**User Option:** Required

**Purpose:** To specify identifying information

## Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Required
		<b>Code</b> <b>Name</b> CN                    Carrier's Reference Number				
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/80	Required
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content.	X	AN	1/80	Required

# FOB

## FOB Related Instructions

Pos: 280	Max: 1
Detail - Optional	
Loop: HL	Elements: 7

**User Option:** Desired

**Purpose:** To specify transportation instructions relating to shipment.

### Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max	Usage
FOB01	146	<b>Shipment Method of Payment</b> <b>Description:</b> Code identifying payment terms for transportation charges.	M	ID	2/2	Required
		<b>Code</b> <b>Name</b> CC                Collect				
FOB02	309	<b>Location Qualifier</b> <b>Description:</b> Code identifying type of location.	X	ID	1/2	Required
		<b>Code</b> <b>Name</b> DC                Distribution Center Number				
FOB03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content.	O	AN	1/80	Required
FOB08	54	<b>Risk of Loss Code</b> <b>Description:</b> Code identifying type of location.	O	ID	2/2	Desired
		<b>Code</b> <b>Name</b> BY                Risk of Loss in Transit to Destination is Buyer's SE                Risk of Loss in Transit to Destination is Seller's				
FOB09	352	<b>Description</b> <b>Description:</b> Code identifying type of location.	O	AN	1/80	Required

# Loop N1

Pos: 220	Repeat:200
	Optional
Loop: N1	Elements: N/A

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

## Loop Summary:

Pos	ID	Segment Name	Req	Max Use	Repeat	Usage
220	N1	Name	O	1		Required
260	REF	Reference Identification	O	1		Required
280	F.O.B	FOB Related Instructions	O	1		Desired

# N1 Name

Pos: 220	Max: 1
	Detail – Optional
Loop: N1	Elements: 4

**User Option:** Required

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

## Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max	Usage
N101	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property, or an individual. <b>Code</b> <b>Name</b> SF              Ship From	M	ID	2/3	Required
N102	93	<b>Name</b> <b>Description:</b> Free-form name	X	AN	1/60	Desired
N103	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code. <b>Code</b> <b>Name</b> UL              Cross-listed Course Number UR              Unit Relief Number	X	ID	1/2	Required
N104	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code.	X	AN	9/9	Required

# REF Reference Identification

Pos: 260	Max: 1
Detail – Optional	
Loop: HL	Elements: 3

**User Option:** Required

**Purpose:** To specify identifying information

## Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Required
		<b>Code</b> <b>Name</b> CN                    Carrier's Reference Number				
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/80	Required
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content.	X	AN	1/80	Required

# FOB

## FOB Related Instructions

Pos: 280	Max: 1
Detail - Optional	
Loop: HL	Elements: 7

**User Option:** Desired

**Purpose:** To specify transportation instructions relating to shipment.

### Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max	Usage
FOB01	146	<b>Shipment Method of Payment</b>	M	ID	2/2	Required
		<b>Description:</b> Code identifying payment terms for transportation charges.				
		<b>Code</b>		<b>Name</b>		
		CC		Collect		
FOB02	309	<b>Location Qualifier</b>	X	ID	1/2	Required
		<b>Description:</b> Code identifying type of location.				
		<b>Code</b>		<b>Name</b>		
		DC		Distribution Center Number		
FOB03	352	<b>Description</b>	O	AN	1/80	Required
		<b>Description:</b> A free-form description to clarify the related data elements and their content.				
FOB08	54	<b>Risk of Loss Code</b>	O	ID	2/2	Desired
		<b>Description:</b> Code identifying type of location.				
		<b>Code</b>		<b>Name</b>		
		BY		Risk of Loss in Transit to Destination is Buyer's		
		SE		Risk of Loss in Transit to Destination is Seller's		
FOB09	352	<b>Description</b>	O	AN	1/80	Required
		<b>Description:</b> Code identifying type of location.				

# Loop N1

Pos: 220      Repeat:200  
 Optional  
 Loop: N1      Elements: N/A

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

## Loop Summary:

Pos	ID	Segment Name	Req	Max Use	Repeat	Usage
220	N1	Name	O	1		Required
260	REF	Reference Identification	O	1		Required
280	F.O.B	FOB Related Instructions	O	1		Desired

# N1      Name

Pos: 220      Max: 1  
 Detail – Optional  
 Loop: N1      Elements: 4

**User Option:** Required

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

## Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max	Usage
N101	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property, or an individual. <u>Code</u> <u>Name</u> ST      Ship To	M	ID	2/3	Required
N102	93	<b>Name</b> <b>Description:</b> Free-form name	X	AN	1/60	Desired
N103	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code. <u>Code</u> <u>Name</u> UL      Cross-listed Course Number UR      Unit Relief Number	X	ID	1/2	Required
N104	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code.	X	AN	9/9	Required



# REF Reference Identification

Pos: 260	Max: 1
Detail – Optional	
Loop: HL	Elements: 3

**User Option:** Required

**Purpose:** To specify identifying information

## Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Required
		<b>Code</b> <b>Name</b> CN                    Carrier's Reference Number				
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/80	Required
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content.	X	AN	1/80	Required

# FOB

## FOB Related Instructions

Pos: 280	Max: 1
Detail – Optional	
Loop: HL	Elements: 7

**User Option:** Desired

**Purpose:** To specify transportation instructions relating to shipment.

### Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max	Usage
FOB01	146	<b>Shipment Method of Payment</b> <b>Description:</b> Code identifying payment terms for transportation charges. <b>Code</b> <b>Name</b> CC                    Collect	M	ID	2/2	Required
FOB02	309	<b>Location Qualifier</b> <b>Description:</b> Code identifying type of location. <b>Code</b> <b>Name</b> DC                    Distribution Center Number	X	ID	1/2	Required
FOB03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content.	O	AN	1/80	Required
FOB08	54	<b>Risk of Loss Code</b> <b>Description:</b> Code identifying type of location. <b>Code</b> <b>Name</b> BY                    Risk of Loss in Transit to Destination is Buyer's SE                    Risk of Loss in Transit to Destination is Seller's	O	ID	2/2	Desired
FOB09	352	<b>Description</b> <b>Description:</b> Code identifying type of location.	O	AN	1/80	Required

# HL Hierarchical Level – Tare Level

Pos: 010	Max: 1
Detail – Mandatory	
Loop: HL	Elements: 3

**User Option:** Required

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

## Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	<b>Hierarchical ID Number</b> <b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.	M	AN	1/12	Required
HL02	734	<b>Hierarchical Parent ID Number</b> <b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.	O	AN	1/12	Required
HL03	735	<b>Hierarchical Level Code</b> <b>Description:</b> Code defining the characteristic of a level in a hierarchical structure.	M	ID	1/2	Required
		<b>Code</b>		<b>Name</b>		
		T		Shipping Tare		

# MAN Marks and Numbers

Pos: 190	Max: >1
Detail – Required	
Loop: HL	Elements: 4

**User Option:** Required

**Purpose:** To indicate identifying marks and numbers for shipping containers

## Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max	Usage				
MAN01	88	<b>Marks and Numbers Qualifier</b>	M	ID	1/2	Required				
<p><b>Description:</b> Code specifying the application or source of Marks and Numbers (87)</p> <p><i>Serial Shipping Container Code (SSCC-18) on the ASN <b>must</b> be linked to the SSCC-18 on the physical pallet received at the distribution center. SSCC is 20-digits, including 00 prefix.</i></p> <p><i>For example, MAN*GM*00103491002495026264~</i></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>GM</td> <td>SSCC-18 and Application Identifier</td> </tr> </tbody> </table>							Code	Name	GM	SSCC-18 and Application Identifier
Code	Name									
GM	SSCC-18 and Application Identifier									
MAN02	87	<b>Marks and Numbers</b>	M	AN	1/48	Required				
<p><b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment</p> <p><i>When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.</i></p>										

# Loop HL

Pos: 010	Repeat: 20000
Mandatory	
Loop: HL	Elements: N/A

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

## Loop Summary:

Pos	ID	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level – Item Level	M	1		Required
020	LIN	Item Identification	O	1		Required
030	SN1	Item Detail (Shipment)	O	1		Required
070	PID	Product/Item Description	O	1		Required

# HL

## Hierarchical Level – Item Level

Pos: 010	Max: 1
Detail – Mandatory	
Loop: HL	Elements: 3

**User Option:** Required

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

## Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max	Usage
HL01	628	<b>Hierarchical ID Number</b>	M	AN	1/12	Required
<b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.						
HL02	734	<b>Hierarchical Parent ID Number</b>	O	AN	1/12	Required
<b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.						
HL03	735	<b>Hierarchical Level Code</b>	M	ID	1/2	Required
<b>Description:</b> Code defining the characteristic of a level in a hierarchical structure.						
		<b>Code</b>		<b>Name</b>		
		I		Item		

**LIN****Item Identification**

Pos: 020	Max: 1
Detail - Optional	
Loop: HL	Elements: 4

**User Option:** Required**Purpose:** To specify basic item identification data.**Element Summary:**

<b>Ref</b>	<b>ID</b>	<b>Element Name</b>	<b>Req</b>	<b>Type</b>	<b>Min/Max</b>	<b>Usage</b>
LIN02	235	<b>Product/Service ID Qualifier</b>	M	ID	2/2	Required
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID.				
		<b>Code</b>		<b>Name</b>		
		UK		UPC/EAN Shipping Container Code   GTIN (14-digits)		
LIN03	234	<b>Product/Service ID</b>	M	AN	6/8	Required
		<b>Description:</b> Identifying number for a product or service.				
LIN04	235	<b>Product/Service ID Qualifier</b>	M	ID	2/2	Required
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID.				
		<b>Code</b>		<b>Name</b>		
		LT		Lot Number		
LIN05	234	<b>Product/Service ID</b>	M	AN	6/8	Required
		<b>Description:</b> Identifying number for a product or service.				

# SN1 Item Detail (Shipment)

Pos: 030                      Max: 1  
 Detail - Optional  
 Loop: HL                    Elements: 2

**User Option:** Required

**Purpose:** To specify line-item detail relative to shipment.

## Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SN102	382	<b>Number of Units Shipped</b>	M	R0	1/10	Required
<b>Description:</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set. (Max 2 decimals if established with accounting).						
SN103	355	<b>Unit or Basis for Measurement Code</b>	M	ID	2/2	Required
<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.						
		<b><u>Code</u></b>		<b><u>Name</u></b>		
		EA		Each		
		CS		Case		
		PL		Pallet/Unit Load		

# PID

## Product/Item Description

Pos: 070	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

**User Option:** Required

**Purpose:** To specify line-item detail relative to shipment.

### Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	<b>Item Description Type</b> <b>Description:</b> Code indicating the format of a description	M	ID	1/1	Required
		<b>Code</b> <b>Name</b> F                    Free-form				
PID05	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content.	X	AN	1/30	Required



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# CTT Transaction Totals

Pos: 010                      Max: 1  
 Summary – Optional  
 Loop: N/A                  Elements: 1

**User Option:** Required

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

**Element Summary:**

<u>Ref</u>	<u>ID</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	<b>Number of Line Items</b>	M	N0	1/6	Required
		<b>Description:</b> Total number of LIN segments in the transaction set.				

**SE****Transaction Set Trailer**

<b>Pos: 020</b>	<b>Max: 1</b>
<b>Summary - Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 2</b>

**User Option:** Required

**Purpose:** To indicate the end of the transaction and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

**Element Summary:**

<b>Ref</b>	<b>ID</b>	<b>Element Name</b>	<b>Req</b>	<b>Type</b>	<b>Min/Max</b>	<b>Usage</b>
SE01	96	<b>Number of Included Segments</b>	M	N0	1/10	Required
		<b>Description:</b> Total number of segments included in a transaction set including ST and SE segments.				
SE02	329	<b>Transaction Set Control Number</b>	M	AN	4/9	Required
		<b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set.				

**GE****Functional Group Trailer**

<b>Pos:</b>	<b>Max: 1</b>
<b>Summary – Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 2</b>

**User Option:** Required**Purpose:** To indicate the end of a functional group and to provide control information.**Element Summary:**

<b>Ref</b>	<b>ID</b>	<b>Element Name</b>	<b>Req</b>	<b>Type</b>	<b>Min/Max</b>	<b>Usage</b>
GE01	97	<b>Number of Transaction Sets Included</b>	M	N0	1/6	Required
		<b>Description:</b> Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.				
GE02	28	<b>Group Control Number</b>	M	N0	1/9	Required
		<b>Description:</b> Assigned number originated and maintained by the sender. GE02 must be equal to the value provided in GS06.				

**IEA****Interchange Control Trailer**

Pos:	Max: 1
Summary – Mandatory	
Loop: N/A	Elements: 2

**User Option:** Required**Purpose:** To Define the end of an interchange of zero or more functional groups and interchange-related control segments.**Element Summary:**

<b>Ref</b>	<b>ID</b>	<b>Element Name</b>	<b>Req</b>	<b>Type</b>	<b>Min/Max</b>	<b>Usage</b>
IEA01	I16	<b>Number of Included Functional Groups</b>	M	N0	1/5	Required
		<b>Description:</b> A count of the number of functional groups included in an interchange.				
IEA02	I12	<b>Interchange Control Number</b>	M	N0	9/9	Required
		<b>Description:</b> A control number assigned by the interchange sender. IEA02 must be equal to the value provided in ISA13.				