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

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	ST01	143	**Transaction Set identifying a Transaction Set** Code uniquely identifying a Transaction Set Refer 004010 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:	**BSN** **Beginning Segment for Ship Notice**
Position:	020
Loop:	
Level:	Heading
Usage:	Mandatory (ASC)
Max Use:	1
Purpose:	To transmit identifying numbers, dates, and other basic data relating to the transaction set

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

Data Element Summary

Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
BSN01	353	**Transaction Set Purpose Code** Code identifying the purpose of transaction set	**M ID 2/2**	**2**	Refer to "BSN01 LIST" In Data Element Values Section
BSN02	396	**Shipment Identification** A unique control number assigned by the original shipper to identify a specific shipment	**M AN 2/30**	**10**	Sequentially assigned by the originator. (See Note 1 in "BSN01 LIST" In Data element Values Section)
BSN03	373	**Date** Date expressed as CCYMMDD	**M DT 8/8**	**8**	Creation Date CCYYMMDD
BSN04	337	**Time** 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=decimals seconds; decimal seconds are expressed as follows: D=tenths (0-9) and DD=hundredths (00-99)	**M TM 4/8**	**4**	Creation Time HHMM

	Segment:	**DTM** Date/Time Reference
	Position:	040
	Loop:	
	Level:	Heading
	Usage:	Mandatory (ASC)
	Max Use:	1
	Purpose:	To specify pertinent dates and times
	Syntax Notes:	1. At least on of DTM02 DTM03 or DTM05 is required.
		2. If DTM04 is present, the DTM03 is required.

Semantic Notes:
    Comments:

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time	M ID 3/3	3	"011" – Shipped
	DTM02	**373**	**Date** Date expressed as CCYMMDD	X DT 8/8	8	Ship Date
	DTM03	**337**	**Time** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or MMMMSS, or HHMMSSD, or HHMMSSDD, where H= hours (00-23), M= minutes (00-59), S= integer seconds (00-59) and DD= decimal seconds are expressed as follows: D= tenths (0-9)and DD= hundredths (00-99)	X TM 4/8	4	Ship Time HHMM
	DTM04	**623**	**Time Code** Code indicating the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or –and an indication in hours in relation to Universal Time Coordinates (UTC) time; since + is a restricted character, + and –are substituted by P and M in the codes that follow Refer to 004010 Data Element Dictionary for acceptable code values .	O ID 2/2	2	Refer to 4010 Data Element Dictionary for Code values

Segment:	**HL** Hierarchical
Position:	010
Loop:	HL Mandatory
Level:	Detail – H1
Usage:	Mandatory (ASC)
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 The HL segment defines a top-down/left-right ordered structure.
	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.

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	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	12	Sequentially Assigned by originator
	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	12	
>>	HL03	735	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure	M ID 1/2	1	"S" = Shipment

Segment: **MEA** Measurements

Position: 080
Loop: HL Mandatory
Level: Detail – H1
Usage: Optional (ASC) Occurrence 1
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figure Appendix for example of use of C001)

Syntax Notes: 1. AT least one of MEA03 MEA05 MEA06 or MEA08 is required.

Semantic Notes: 1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:

Data Element Summary

Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
MEA01	737	**Measurement Reference ID Code** Code Identifying the broad category to which a measurement applies	O ID 2/2	2	"WT" = Weight
MEA02	738	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies	O ID 1/3	1	"G" = Gross
MEA03	739	**Measurement Value** The value of the measurement	X R 1/20	8	Gross Weight
MEA04	C001	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	X		
> C00101 >	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	M ID 2/2	2	"LB" = Pounds "KG" = Kilogram "TN" = Ton (2,000)

	Segment:	**MEA** Measurements
	Position:	081
	Loop:	HL Mandatory
	Level:	Detail – H1
	Usage:	Optional (ASC) Occurrence 2
	Max Use:	1
	Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figure Appendix for example of use of C001)
	Syntax Notes:	2. AT least one of MEA03 MEA05 MEA06 or MEA08 is required.
	Semantic Notes:	2. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
	Comments:	

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
	MEA01	**737**	**Measurement Reference ID Code** Code Identifying the broad category to which a measurement applies	**O ID 2/2**	**2**	"WT" = Weight
	MEA02	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies	**O ID 1/3**	**1**	"N" = Net Weight
	MEA03	**739**	**Measurement Value** The value of the measurement	**X R 1/20**	**8**	Actual Net Weight
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**		
>>	**C00101**	**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 004010 Data Element Dictionary for acceptable code values | **M ID 2/2** | **2** | "LB" = Pounds "KG" = Kilogram "TN" = Ton (2,000) |

					Data
				ASC	**Element**
				Field	**Value/**
Ref	**Data**	**ANSI**		**Size**	**Description**

Segment: **TD1** **Carrier Details (Quantity and Weight)**
Position: 110
Loop: HL Mandatory
Level: Detail – H1
Usage: Manditory (ASC)
Max Use: 1
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.

Semantic Notes:
Comments:

Data Element Summary

Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
TD101	**103**	**Packaging Code** 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 Refer to 004010 Data Element Dictionary for acceptable code values.	**O AN 3/5**	**5**	Container Type
TD102	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity	**X N0 1/7**	**4**	Number of containers
TD103	**23**	**Commodity Code Qualifier** Code identifying the commodity coding system used for Commodity Code Refer to 004010 Data Element Dictionary for acceptable code values.	**O ID 1/1**	**1**	Valid Commodity Code Qualifier
TD104	**22**	**Commodity Code** Code describing a commodity or group of commodities	**X AN 1/30**	**16**	Commodity Code

Segment:	**TD5** Carrier Details (Routing Sequence/Transit)	
Position:	120	
Loop:	HL Mandatory	
Level:	Detail – H1	
Usage:	Optional (ASC)	
Max Use:	1	
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 and TD512 is required.	
	2. If TD502 is present, then TD503 is required.	
	3. If TD507 is present, then TD508 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.

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Data Element Summary

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Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
TD501	133	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement	O ID 1/2	1	"B" = Origin Delivery Carrier (any mode)
TD502	66	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	X ID 1/2	1	"2" = Standard Carrier Alpha Code (Motor) (SCAC)
TD503	67	**Identification Code** Code identifying a party or other code	X AN 2/80	4	Carrier SCAC (if air shipment, use air bill number if available)
TD504	91	**Transportation Method/Type Code** Code specifying the method or type of transportation for the shipment Refer to 004010 Data Element Dictionary for acceptable code values.	X AN 1/2	2	Transportation Mode
TD505	387	**Routing** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	X AN 1/35	35	Routing

TD506	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. Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2	2	ASC Not using at this time
TD507	309	**Location Qualifier** Code identifying type of location Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/2	2	Refer to "TD507 LIST" In Data Element Values Section
TD508	310	**Location Identifier** Code which identifies a specific location	X AN 1/30	25	Location Code

Segment:	**TD3** Carrier Details (Equipment)		
Position:	130		
Loop:	HL Mandatory		
Level:	Detail – H1		
Usage:	Optional (ASC)		
Max Use:	1		
Purpose:	To specify transportation details relating to the equipment used by the carrier		
Syntax Notes:	1. Only one of TD301 or TD310 may be present.		
	2. If TD302 is present, then TD303 is required.		

Semantic Notes:
Comments:

Data Element Summary

Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
TD301	**40**	**Equipment Description Code** Code identifying type of equipment used for shipment Refer to 004010 Data Element Dictionary for acceptable code values.	**X ID 2/2**	**2**	Equipment/ Description Code
TD302	**206**	**Equipment Initial** Prefix or alphabetic part of an equipment unit's identifying number	**O AN 1/4**	**4**	
TD303	**207**	**Equipment Number** Sequence or serial part of equipment unit's identifying number (pure numeric form of equipment number is preferred)	**X AN 1/10**	**10**	Trailer, Railcar, Flight #

Segment:	**TD4** Carrier Details (Special Handling or Hazardous Material, or Both)				
Position:	140				
Loop:	HL Mandatory				
Level:	Detail – H1				
Usage:	Optional (ASC)				
Max Use:	1				
Purpose:	To specify transportation special handling requirements, or hazardous materials information, or both				
Syntax Notes:	1. At least one TD401 TD402 or TD404 is required.				
	2. IF TD402 is present, then TD403 is required.				
Semantic Notes:					
Comments:					

Data Element Summary

Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
TD401	152	**Special Handling Code** Code specifying special transportation handling instructions Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3	3	Valid Code
TD402	208	**Hazardous Material Code Qualifier** Code which qualifies the Hazardous Material Class (209) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/1	1	Valid Code
TD403	209	**Hazardous Material Class Code** Code specifying the kind of hazard for a material	X AN 1/4	4	
TD404	352	**Description** A free-form description to clarify the related data elements and their content	X AN 1/80	78	Hazardous Material Free Form Description

						Data
	Ref	**Data**	**ANSI**		**ASC** **Field**	**Element** **Value/**
	Des.	**Element**	**Name**	**Attributes**	**Size**	**Description**
>>	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M ID 2/3**	**2**	"BM" = Bill of Lading Number
	REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**	**30**	Bill of Lading Number
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content	**X AN 1/80**	**80**	(Not being used at this time)

Segment: **REF** Reference Identification

Position: 150
Loop: HL Mandatory
Level: Detail – H1
Usage: Mandatory (ASC) – Occurrence 1
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: 1. At least one REF02 or REF03 is required.

Semantic Notes:
Comments:

Data Element Summary

	Segment:	**REF** Reference Identification
	Position:	151
	Loop:	HL Mandatory
	Level:	Detail – H1
	Usage:	Optional (ASC) – Occurrence 2
	Max Use:	1
	Purpose:	To specify identifying information
	Syntax Notes:	2. At least one REF02 or REF03 is required.

Semantic Notes:
Comments:

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	M ID 2/3	2	"FR" = Freight Bill Number
	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30	30	Freight Bill Number
	REF03	352	**Description** A free-form description to clarify the related data elements and their content	X AN 1/80	80	(Not being used at this time)

	Segment:	**REF** Reference Identification
	Position:	152
	Loop:	HL Mandatory
	Level:	Detail – H1
	Usage:	Optional (ASC) – Occurrence 3
	Max Use:	1
	Purpose:	To specify identifying information
	Syntax Notes:	3. At least one REF02 or REF03 is required.

Semantic Notes:
    Comments:

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	M ID 2/3	2	"AW" = Airbill Number
	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30	30	Airbill Number
	REF03	352	**Description** A free-form description to clarify the related data elements and their content	X AN 1/80	80	(Not being used at this time)

	Segment:	**REF** Reference Identification
	Position:	153
	Loop:	HL Mandatory
	Level:	Detail – H1
	Usage:	Optional (ASC) – Occurrence 4
	Max Use:	1
	Purpose:	To specify identifying information
	Syntax Notes:	4. At least one REF02 or REF03 is required.

Semantic Notes:
    Comments:

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Data Element Summary

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	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M ID 2/3**	**2**	"PK" = Packing Slip Number
	REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**	**30**	Packing Slip Number
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content	**X AN 1/80**	**80**	(Not being used at this time)

	Segment:	**REF** Reference Identification
	Position:	154
	Loop:	HL Mandatory
	Level:	Detail – H1
	Usage:	Manditory (ASC) – Occurrence 5
	Max Use:	1
	Purpose:	To specify identifying information
	Syntax Notes:	5. At least one REF02 or REF03 is required.

Semantic Notes:
    Comments:

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	M ID 2/3	2	"CN" = PRO/Invoice Number
	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30	30	PRO/Invoice Number
	REF03	352	**Description** A free-form description to clarify the related data elements and their content	X AN 1/80	80	(Not being used at this time)

Segment:	**REF** Reference Identification					
Position:	155					
Loop:	HL Mandatory					
Level:	Detail – H1					
Usage:	Optional (ASC) – Occurrence 6					
Max Use:	1					
Purpose:	To specify identifying information					
Syntax Notes:	6. At least one REF02 or REF03 is required.					

Semantic Notes:
Comments:

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	M ID 2/3	2	"SN" = Seal Number
	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30	30	Seal Number
	REF03	352	**Description** A free-form description to clarify the related data elements and their content	X AN 1/80	80	(Not being used at this time)

Segment:	**FOB** F.O.B. Related Instructions
Position:	210
Loop:	HL Mandatory
Level:	Detail – H1
Usage:	Optional (ASC)
Max Use:	1
Purpose:	To specify transportation instructions relating to shipment
Syntax Notes:	
Semantic Notes:	1. FOB01 indicates which party will pay the carrier.
Comments:	

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	FOB01	146	**Shipment Method of Payment** Code identifying payment terms for transportation charges	M ID 2/2	2	Refer to "FOB01 LIST" In Data Element Values Section

	Segment:	**N1** **Name**
	Position:	220
	Loop:	N1 Optional
	Level:	Detail – H1
	Usage:	Manditory (ASC) – Occurrence 1
	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.

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	N101	98	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual	M ID 2/3	2	"SU" = Supplier/ Manufacturer
	N102	93	**Name** Free-form name	X AN 1/60	35	Supplier Name
	N103	66	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	X ID 1/2	2	"92"
	N104	67	**Identification Code** Code identifying a party or other code	X AN 2/80	17	Assigned to Supplier by ASC (7-digit supplier Code)

	Segment:	**N1** Name
	Position:	220
	Loop:	N1 Optional
	Level:	Detail – H1
	Usage:	Manditory (ASC) – Occurrence 2
	Max Use:	1
	Purpose:	To identify a party by type of organization, name, and code
	Syntax Notes:	3. At least one of N102 or N103 is required.
		4. If either N103 or N104 is present, then the other is required.
	Semantic Notes:	
	Comments:	2. 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.

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	N101	98	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual	M ID 2/3	2	"SF" = Ship From
	N102	93	**Name** Free-form name	X AN 1/60	35	Ship-From Name
	N103	66	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	X ID 1/2	2	"92"
	N104	67	**Identification Code** Code identifying a party or other code	X AN 2/80	17	Assigned to Supplier by ASC

	Segment:	**PER** Administrative Communications Contact
	Position:	270
	Loop:	N1 Optional
	Level:	Detail – H1
	Usage:	Manditory (ASC)
	Max Use:	1
	Purpose:	To identify a person or office to whom administrative communications should be directed
	Syntax Notes:	1. If either PER03 or PER04 is present, then the other is required.

Semantic Notes:
    Comments:

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Data Element Summary

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	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	PER01	366	**Contact Function Code** Code identifying the major duty or responsibility of the person or group named Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2	2	Any valid code
	PER02	93	**Name** Free-form name	O AN 1/60	35	Contact Name
	PER03	365	**Communication Number Qualifier** Code identifying the type of communication number	X ID 2/2	2	"TE" = Telephone Number, "FX" = Fax
	PER04	364	**Communication Number** Complete communications number including country or area code when applicable	X AN 1/80	21	

	Segment:	**N1** Name
	Position:	281
	Loop:	N1 Optional
	Level:	Detail – H1
	Usage:	Manditory (ASC) – Occurrence 3
	Max Use:	1
	Purpose:	To identify a party by type of organization, name, and code
	Syntax Notes:	5. At least one of N102 or N103 is required.
		6. If either N103 or N104 is present, then the other is required.
Semantic Notes:		
	Comments:	3. 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.

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	N101	98	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual	M ID 2/3	2	"ST" = Ship To
	N103	66	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	X ID 1/2	2	"92"
	N104	67	**Identification Code** Code identifying a party or other code	X AN 2/80	2	Assigned to Supplier by ASC (Ship-to Division)

	Segment:	**N1** Name
	Position:	282
	Loop:	N1 Optional
	Level:	Detail – H1
	Usage:	Optional (ASC) – Occurrence 4
	Max Use:	1
	Purpose:	To identify a party by type of organization, name, and code
	Syntax Notes:	7. At least one of N102 or N103 is required.
		8. If either N103 or N104 is present, then the other is required.
	Semantic Notes:	
	Comments:	4. 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.

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	N101	98	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual	M ID 2/3	2	"MA" = Party for whom item is ultimately intended
	N103	66	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	X ID 1/2	2	"92"
	N104	67	**Identification Code** Code identifying a party or other code	X AN 2/80	2	ASC (2-Digit) Division Code

Segment:		**REF** Reference Identification				

Position: 283
Loop: HL Mandatory
Level: Detail – H1
Usage: Optional (ASC)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: 7.   At least one REF02 or REF03 is required.

Semantic Notes:
Comments:

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	M ID 2/3	2	"DK" = Dock Number
	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30	2	Dock Number

	Segment:	**ETD** Excess Transportation Detail
	Position:	300
	Loop:	HL Mandatory
	Level:	Detail – H1
	Usage:	Optional (ASC)
	Max Use:	1
	Purpose:	To specify information relating to premium transportation
	Syntax Notes:	1. If either ETD03 or ETD04 is present, then the other is required.
	Semantic Notes:	1. ETD03 qualifies the authorization number given in ETD04.
	Comments:	

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	ETD01	626	**Excess Transportation Reason Code** Code identifying the reason for shipment via premium transportation rather than the normal mode of transportation	M ID 1/2	2	"ZZ" – Mutually Defined
>>	ETD02	627	**Excess Transportation Responsibility Code** Code identifying the organization responsible for paying the premium transportation costs	M ID 1/1	1	
	ETD03	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	X ID 2/3	2	"AE" = Authorization for Expense (AFE) Number
	ETD04	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30	30	AETC Number

Segment:	**HL** Hierarchical					
Position:	010					
Loop:	HL Mandatory					
Level:	Detail – H2					
Usage:	Mandatory (ASC)					
Max Use:	1					
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments					
Syntax Notes:						
Semantic Notes:						
Comments:	5. 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					

Segment: **HL** Hierarchical
Position: 010
Loop: HL Mandatory
Level: Detail – H2
Usage: Mandatory (ASC)
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
Comments:

5.   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.

6.   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.

7.   HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

8.   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.

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	**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**	12	Sequentially Assigned by originator
	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**	12	
>>	**HL03**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure	**M ID 1/2**	1	"O" = Order

	Segment:	**LIN** Item Identification
	---	---
	Position:	020
	Loop:	HL Mandatory
	Level:	Detail – H2
	Usage:	Manditory (ASC)
	Max Use:	1
	Purpose:	To specify basic item identification
	Syntax Notes:	1. If either LIN04 or LIN05 is present, then the other is required.
		2. If either LIN06 or LIN07 is present, then the other is required.
		3. If either LIN08 or LIN09 is present, then the other is required.

	Semantic Notes:	1. LIN01 is the line item identification
	---	---
	Comments:	1. See the Data Dictionary for a complete list of IDs.
		2. LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	LIN02	235	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234)	M ID 2/2	2	"BP"
>>	LIN03	234	**Product/Service ID** Identifying number for a product or service	M AN 1/48	30	ASC Part Number
	LIN04	235	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X ID 2/2	2	"EC
	LIN05	234	**Product/Service ID** Identifying number for a product or service	X AN 1/48	30	Engineering Change Level
	LIN06	235	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X ID 2/2	2	"RC"
	LIN07	234	**Product/Service ID** Identifying number for a product or service	X AN 1/48	30	Returnable Container Number
	LIN08	235	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X ID 2/2	2	"VP"
	LIN09	234	**Product/Service ID** Identifying number for a product or service	X AN 1/48	30	Vendor Part Number

	Segment:	**SN1** Item Detail (Shipment)
	Position:	030
	Loop:	HL Mandatory
	Level:	Detail – H2
	Usage:	Manditory (ASC)
	Max Use:	1
	Purpose:	To specify line-item detail relative to shipment
	Syntax Notes:	
	Semantic Notes:	1. SN101 is the ship notice line-item identification.
	Comments:	1. SN103 defines the unit of measurement for both SN102 and SN104.

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
	SN101	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set	**O AN 1/20**	**20**	ASC not using at this time
>>	**SN102**	**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**	**10**	Quantity Shipped
>>	**SN103**	**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	**M ID 2/2**	**2**	Refer to "SN103 LIST" In Data Element Values Section
	SN104	**646**	**Quantity Shipped to Date** Number of units shipped to date	**O R 1/15**	**11**	YTD CUM Qty

	Segment:	**PRF** Purchase Order Reference
	Position:	050
	Loop:	HL Mandatory
	Level:	Detail – H2
	Usage:	Optional (ASC)
	Max Use:	1
	Purpose:	To provide reference to a specific purchase order
	Syntax Notes:	
	Semantic Notes:	1. PRF04 is the date assigned by the purchaser to purchase order.
	Comments:	

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	PRF01	324	**Purchase Order Number** Identifying number for Purchase Order assigned by the order/purchaser	M AN 1/22	22	Purchase Order Number
	PRF02	328	**Release Number** Number identifying a release against a Purchase Order previously placed by parties involved in the transaction	O AN 1/30	30	Use Number provided on corresponding material release
	PRF03	327	**Change Order Sequence Number** Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	O AN 1/8	8	ASC not using at this time
	PRF04	373	**Date** Date expressed as CCYYMMDD	O DT 8/8	8	Purchase Order Date

Segment:		**PID** Product/Item Description				
Position:		070				
Loop:		HL Mandatory				
Level:		Detail – H2				
Usage:		Optional – (ASC)				
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.				

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.

Comments: 1. If PID01 equals "F", then PID05 is used. IF PID01 equals "S", then PID04 is used. IF PID01 equals "X", then both PID04 and PID05 are used.
  2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	**PID01**	**349**	**Item Description Type** Code indicating the format of a description Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 1/1	1	Refer to "PID01 LIST" In Data Element Values Section
	PID02	**750**	**Product/Process Characteristic Code** Code identifying the general class of a product or process characteristic Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/3	3	Valid Product/process code
	PID03	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2	2	Valid Item Description Qualifier
	PID04	**751**	**Product Description Code** A code from an industry code list which provides specific data about a product characteristic	X AN 1/12	12	Valid Production Description Code
	PID05	**352**	**Description** A free-form description to clarify the related data elements and their content	X AN 1/80	78	Free-form Description Code

PID06   752   **Surface/Layer/Position Code**   **O ID 2/2**   **2**   Valid Code
                                 Code indicating the product surface, layer or
                                 position that is being described
                                 Refer to 004010 Data Element Dictionary for
                                 acceptable code values.

	Segment:	**REF** Reference Identification
	Position:	150
	Loop:	HL Mandatory
	Level:	Detail – H2
	Usage:	Optional (ASC) – Occurrence 1
	Max Use:	1
	Purpose:	To specify identifying information
	Syntax Notes:	8. At least one REF02 or REF03 is required.

Semantic Notes:
   Comments:

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	M ID 2/3	2	"PK" = Packing Slip Number
	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30	8	Packing Slip Number
	REF03	352	**Description** A free-form description to clarify the related data elements and their content	X AN 1/80	80	(Not being used at this time)

	Segment:	**REF** Reference Identification
	Position:	151
	Loop:	HL Mandatory
	Level:	Detail – H2
	Usage:	Optional (ASC) – Occurrence 2
	Max Use:	1
	Purpose:	To specify identifying information
	Syntax Notes:	9. At least one REF02 or REF03 is required.

Semantic Notes:
Comments:

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	M ID 2/3	2	"MY" = Model Year (Delivery Year)
	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30	8	Model Year Number
	REF03	352	**Description** A free-form description to clarify the related data elements and their content	X AN 1/80	80	(Not being used at this time)

	Segment:	**REF** Reference Identification
	Position:	152
	Loop:	HL Mandatory
	Level:	Detail – H2
	Usage:	Optional (ASC) – Occurrence 3
	Max Use:	1
	Purpose:	To specify identifying information
	Syntax Notes:	10. At least one REF02 or REF03 is required.

Semantic Notes:
Comments:

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	M ID 2/3	2	"RE" = Release Number
	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30	8	Release Number
	REF03	352	**Description** A free-form description to clarify the related data elements and their content	X AN 1/80	80	(Not being used at this time)

					Data

Segment: **ETD** Excess Transportation Detail

Position:	300
Loop:	HL Mandatory
Level:	Detail – H2
Usage:	Optional (ASC)
Max Use:	1
Purpose:	To specify information relating to premium transportation
Syntax Notes:	2. If either ETD03 or ETD04 is present, then the other is required.
Semantic Notes:	2. ETD03 qualifies the authorization number given in ETD04.
Comments:	

Data Element Summary

Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>> ETD01	626	**Excess Transportation Reason Code** Code identifying the reason for shipment via premium transportation rather than the normal mode of transportation Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 1/2	2	Valid Reason Code
>> ETD02	627	**Excess Transportation Responsibility Code** Code identifying the organization responsible for paying the premium transportation costs	M ID 1/1	1	Valid Responsibility Code
ETD03	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	X ID 2/3	2	"AE" = Authorization Number for Expense (AFE) Number
ETD04	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30	30	AFE Number

	Segment:	**SAC** Service, Promotion, Allowance, or Charge Information
	Position:	320
	Loop:	SAC Optional
	Level:	Detail – H2
	Usage:	Optional (ASC)
	Max Use:	1
	Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge.

Syntax Notes:
1. At least one of SAC02 or SAC03 is required.
2. If either SAC03 or SAC04 is present, then the other is required.
3. If either SAC06 or SAC07 is present, then the other is required.
4. If either SAC09 or SAC10 is present, then the other is required.
5. If SAC11 is present, the n SAC10 is required.
6. SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. If SAC14 is present, then SAC13 is required.

Semantic Notes:
1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
3. SAC08 is the allowance or charge rate per unit.
4. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
   SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is Applicable to service, promotion, allowance, or charge.

SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.

SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.

Comments:
1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" dollars in SAC09.

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	SAC01	248	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 1/1	1	"A" = Allowance, "C" = Charge, "N" = No Allowance or Charge

SAC03	559	**Agency Qualifier Code** Code identifying the agency assigning the code values.	X ID 2/2	2	ASC not using at this time
SAC04	1301	**Agency Service, Promotion, allowance or Charge Code** Agency maintained code identifying the service, promotion, allowance, or charge	X AN 1/10	10	Allowance or Charge Number
SAC05	610	**Amount** Monetary amount	O N2 1/15	10	Allowance or Charge Amount Total
SAC06	378	**Allowance/Charge Percent Qualifier** Code indicating on what basis allowance or charge percent is calculated Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/1	1	Valid allowance/ Charge percent qualifier
SAC07	332	**Percent** Percent expressed as a percent	X R 1/6	6	Allowance or Charge Percent
SAC08	118	**Rate** Rate expressed in the standard monetary denomination for the currency specified	O R 1/9	9	Allowance or Charge Rate Per Unit
SAC09	355	**Unit or Basis for Measurement Code** Code specifying the units in which a value has being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2	2	Valid UOM Code
SAC10	380	**Quantity** Numeric value of quantity	X R 1/15	12	Allowance or Charge Quantity
SAC11	380	**Quantity** Numeric value of quantity	O R 1/15	12	Quantity

SAC12	331	**Allowance or Charge Method of Handling Code** Code indicating method of handling for an allowance or charge Refer to 004010 Data Element Dictionary for acceptable code values.	**O ID 2/2**	**2**	Allowance/C hrg Method of Handling Code
SAC15	352	**Description** A free-form description to clarify the related data elements and their content	**X AN 1/80**	**78**	Free-Form Description

	Segment:	**CTT** Transaction Totals
	Position:	010
	Loop:	
	Level:	Summary
	Usage:	Manditory (ASC)
	Max Use:	1
	Purpose:	To transmit a hash total for a specific element in the transaction set
Syntax Notes:		.

Semantic Notes:
Comments: 1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	**CTT01**	**354**	**Number of Line Items** Total number of line items in the transaction set	**M N0 1/6**	**6**	Total LIN Segments sent in this transmission

	Segment:	**SE** **Transaction Set Trailer**
	Position:	020
	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)
	Syntax Notes:	
	Semantic Notes:	
	Comments:	1. SE is the last segment of each transaction set.

Data Element Summary

	Ref Des.	Data Element	ANSI Name	Attributes	ASC Field Size	Data Element Value/ Description
>>	SE01	96	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	M N0 1/10	6	
>>	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	9	