MAGNA

ANSI X12 - Version 003060 AIAG

Advanced Shipping Notice / Manifest [856]

IMPLEMENTATION GUIDE

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856 – Advanced Shipping Notice / Manifest

856 Advanced Shipping Notice

Functional Group ID=SH

Introduction:

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.

Overview:

♦ **Header Information**

- One BSN segment is required for each ASN that is transmitted.

  A code of "00" is used in the BSN01 element to indicate an original ASN.

  A code of "01" is used to cancel an ASN and a code of "05" is used to replace an ASN.

- The element DTM01 must be "011" (shipped time and date).

  The time in element DTM01and time zone code in element DTM04 should reflect the local time of the supplier's location.

♦ **Detail Information**

- There must always be one HL segment indicating shipment level.

  The element HL01 will always be "1" at the shipment level.

  The element HL02 is not used at the shipment level.

  The element HL03 will always be "S at the shipment level.

- At least one occurrence of the MEA is required and there must be a "G" in element MEA02 indicting gross weight.

  The element MEA01 will always have a code of "PD" (physical dimension)

- Either "BM" or "PK" must be transmitted in element REF01 at the shipment level.

- The Supplier (SU) or Ship From (SF) entity identifier code must be sent, but only the SU should be transmitted when the SU and SF are the same location. If the SU and SF are different locations then use of both SU and SF are allowed.

- There must be at least one HL segment indicating either order or item level.

- A LIN segment must be used with the "BP" qualifier for each Part/PO combination shipped.

- Element SN03 is the shipping unit of measure provided on the 830 Material Release and/or 862 Shipping Schedule.

- The REF segment included at the Order/Item level should be used for routing information.

- The REF segment included within the CLD loop should be used to transmit bar-coded serial numbers, heat codes, or any other pack-item level product identification number.

See the *Magna RPB: Implementing the EDI 856 Ship Notice / Manifest [856]* **guideline for an in-depth description of each segment / element included in this ASN Guideline.**

Recommended Practices

- Do not pre-assign and never send an ASN before the shipment leaves the dock.

- The ASN should be sent with the departure of the conveyance (as the shipment leaves).

- Suppliers should check 997s and 824s in a timely manner and immediately act on errors.

- Customers should not delay sending 997s or 824s or the supplier will not be able to respond promptly.

- The supplier should automate the ASN creation process to eliminate data entry errors. For example, bar code scanning can be used to create or verify the ASN. Do not manually key the ASN data.

- Do not send more than one LIN segment per part/purchase order/engineering change combination on an ASN.

- Do not confuse ASN generation time (BSN04) and shipment time (DTM03).

- CUMs should be reset annually and it is recommended using January 1 as the after inventory date.

- If cums are used between the trading partners, the 824 Application Advice should be used by the supplier to identify and resolve any cum discrepancies.

- If, upon receipt of the material, there are any discrepancies between the material received and the material referenced by the ASN, the customer should generate an 861 referencing the SID.

- For freight companies, use Standard Carrier Alpha Codes that are contained in the *Directory of Standard Multi-Modal Carriers and Tariff Agents Codes (SCAC-STAC), NMF Series*, available from the National Motor Freight Association Inc. Do not invent codes. If the SCAC is not known, the supplier should contact the customer.

- If a duplicate ASN is received, the customer should not overwrite the original ASN but should reject the ASN and send an 824 with an error code indicating a duplicate ASN.

- To change an ASN that has been accepted by the customer, the supplier must cancel the ASN and then retransmit the ASN with corrections as an original ASN.

Data Segment Sequence Table

Heading:

Magna Usage	Segment ID	Name	AIAG Usage	Max.Use	Loop Repeat
M	ST	Transaction Set Header	M	1	
M	BSN	Beginning Segment for Ship Notice	M	1	
M	DTM	Date/Time Reference	O	10	

Detail:

Magna Usage	Segment ID	Name	AIAG Usage	Max.Use	Loop Repeat
Must Use		LOOP ID – HL Shipment Level			200000
M	HL	Hierarchical Level	M	1	
M	MEA	Measurements	O	40	
M	TD1	Carrier Details (Quantity and Weight)	O	20	
M	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
M	TD3	Carrier Details (Equipment)	O	12	
O	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5	
M	REF	Reference Identification	O	200	
Must Use		LOOP ID - N1			200
M	N1	Name	O	1	
Must Use		LOOP ID - HL Order Level			200000
M	HL	Hierarchical Level	M	1	
M	LIN	Item Identification	O	1	
M	SN1	Item Detail (Shipment)	O	1	
M	PRF	Purchase Order Reference	O	1	
O	REF	Reference Identification	O	200	
Must Use		LOOP ID - HL Item Level			200000
M	HL	Hierarchical Level	M	1	
O	MEA	Measurements	O	40	
O	REF	Reference Identification	O	200	
Must Use		LOOP ID - CLD			200
M	CLD	Load Detail	O	1	
M	REF	Reference Identification	O	200	
O	ETD	Excess Transportation Detail	O	1	

Summary:

Magna Usage	Segment ID	Name	AIAG Usage	Max.Use	Loop Repeat
M	CTT	Transaction Totals	O	1	
M	SE	Transaction Set Trailer	M	1	

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Transaction Set Comments

1. The **AIAG Usage** column reflects the **AIAG Standard** for each segment's Requirement Designator.

2. The **Magna Usage** column reflects **Magna's Implementation** of the AIAG Standard.

3. The HL loop at the Shipment, Order, and Item levels is mandatory.

4. A **Mandatory (M)** segment is one that must be included in every ASN.

An **Optional (O)** segment is one that is allowed in an ASN, but not required in every ASN.

Segment:	**ST** Transaction Set Header	
Loop:	None	
Level:	Header	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the start of a transaction set and to assign a control number	
Syntax Notes:		
Semantic Notes:	**1**	The transaction set identifier (ST01) 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:	**The Transaction Set Control Number (ST02) must match the Transaction Set Control Number (SE02) in the Transaction Set Trailer (SE).**	
Example:	**ST*856*0001**	

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG	Attributes
M	ST01	143	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set	M	ID 3/3
			856 X12.10 Ship Notice / Manifest		
M	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
Loop: None
Level: Header
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes: 1 If BSN07 is present, then BSN06 is required.
Semantic Notes: 1 BSN03 is the date the shipment transaction set is created.
2 BSN04 is the time the shipment transaction set is created.
3 BSN06 is limited to shipment related codes.
Comments: 1 BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Example: BSN*00*123456*961008*1523

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name		AIAG Attributes
M	BSN01	353	**Transaction Set Purpose Code** Code identifying purpose of transaction set	M	ID 2/2
			00 Original 01 Cancellation 05 Replace		
M	BSN02	396	**Shipment Identification** A unique supplier assigned number that is not repeated within a one-year period when BSN01= "00".	M	AN 2/30
M	BSN03	373	**Date** Date (YYMMDD)	M	DT 6/6
M	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 = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M	TM 4/8
N/U	BSN05	1005	**Hierarchical Structure Code** Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set Refer to 003060 Data Element Dictionary for acceptable code values.	O	ID 4/4
N/U	BSN06	640	**Transaction Type Code** Code specifying the type of transaction	X	ID 2/2
N/U	BSN07	641	**Status Reason Code** Code indicating the status reason	O	ID 3/3

Segment: # DTM Date/Time Reference

Loop: None
Level: Header
Usage: Mandatory
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:
1   At least one of DTM02 DTM03 or DTM06 is required.
2   If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:
Comments:

Example: DTM*011*961008*1520*ET*19

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name		Attributes
M	DTM01	374	**Date/Time Qualifier** Code specifying type of date or time, or both date and time	M	ID 3/3
			011 Shipped		
M	DTM02	373	**Date** Date (YYMMDD)	X	DT 6/6
M	DTM03	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 = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X	TM 4/8
O	DTM04	623	**Time Code** Code identifying 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 Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O	ID 2/2
			If not used, the date and time is assumed to be the shipper's local time for "011" Refer to 003060 Data Element Dictionary for acceptable values.		
O	DTM05	624	**Century** The first two characters in the designation of the year (CCYY)	O	N0 2/2
N/U	DTM06	1250	**Date Time Period Format Qualifier** Code indicating the date format, time format, or date and time format	X	ID 2/3
N/U	DTM07	1251	**Date Time Period** Expression of a date, a time, or range of dates, times or dates and times	X	AN 1/35

Segment:	**HL** Hierarchical Level	
Loop:	HL **Repeat:** 200000	
Level:	Detail / Shipment	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments	
Syntax Notes:		
Semantic Notes:		
Comments:	**1**	The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
	2	HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
	3	HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
	4	HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of a HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
	5	HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Example:	**HL*1**S**	

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG	Attributes
M	HL01	628	**Hierarchical ID Number**	M	AN 1/12
			A unique number assigned by the sender to identify a particular data segment in a hierarchical structure		
			Use "1" for this occurrence of the HL at the Shipment Level.		
N/U	HL02	734	**Hierarchical Parent ID Number**	O	AN 1/12
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to		
			Not used for this occurrence of the HL segment		
M	HL03	735	**Hierarchical Level Code**	M	ID 1/2
			Code defining the characteristic of a level in a hierarchical structure		
			S Shipment		
N/U	HL04	736	**Hierarchical Child Code**	O	ID 1/1
			Code indicating if there are hierarchical child data segments subordinate to the level being described		
			Refer to 003060 Data Element Dictionary for acceptable code values.		

Segment: # MEA Measurements

Loop:	HL
Level:	Detail / Shipment
Usage:	Mandatory
Max Use:	40
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

Syntax Notes:
1. At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2. If MEA05 is present, then MEA04 is required.
3. If MEA06 is present, then MEA04 is required.
4. If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5. Only one of MEA08 or MEA03 may be present.

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

Comments:
1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Example: **MEA*PD*G*500*KG**

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG	Attributes
M	MEA01	737	**Measurement Reference ID Code**	O	ID 2/2
			Code identifying the broad category to which a measurement applies		
			PD Physical Dimension		
M	MEA02	738	**Measurement Qualifier**	O	ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies		
			G Gross Weight		
			N Actual Net Weight		
			T Tare Weight		
M	MEA03	739	**Measurement Value**	X	R 1/20
			The value of the measurement		
M	MEA04	C001	**Composite Unit of Measure**	X	ID 2/2
			To identify a composite unit of measure		
			KG Kilogram		
			LB Pound		
N/U	MEA05	740	**Range Minimum**	X	R 1/20
			The value specifying the minimum of the measurement range		
N/U	MEA06	741	**Range Maximum**	X	R 1/20
			The value specifying the maximum of the measurement range		
N/U	MEA07	935	**Measurement Significance Code**	O	ID 2/2
			Code used to benchmark, qualify or further define a measurement value		
N/U	MEA08	936	**Measurement Attribute Code**	X	ID 2/2
			Code used to express an attribute response when a numeric measurement value cannot be determined		
N/U	MEA09	752	**Surface/Layer/Position Code**	O	ID 2/2
			Code indicating the product surface, layer or position that is being described		
N/U	MEA10	1373	**Measurement Method or Device**	O	ID 2/4
			The method or device used to record the measurement		

Segment:		**TD1** Carrier Details (Quantity and Weight)		
Loop:		HL		
Level:		Detail / Shipment		
Usage:		Mandatory		
Max Use:		20		
Purpose:		To specify the transportation details relative to commodity, weight, and quantity		

Syntax Notes:
1 If TD101 is present, then TD102 is required.
2 If TD103 is present, then TD104 is required.
3 If TD106 is present, then TD107 is required.
4 If either TD107 or TD108 is present, then the other is required.
5 If either TD109 or TD110 is present, then the other is required.

Semantic Notes:
Comments:

Example: TD1*CNT71*5

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG	Attributes
M	TD101	103	**Packaging Code**	O	AN 3/5
			Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material Use Packaging Code of the shipping unit (e.g. ten boxes on one pallet is specified as one pallet) Refer to 003060 Data Element Dictionary for acceptable values.		
M	TD102	80	**Lading Quantity**	X	N0 1/7
			Number of packages of the type specified in TD101		
N/U	TD103	23	**Commodity Code Qualifier**	O	ID 1/1
			Code identifying the commodity coding system used for Commodity Code		
N/U	TD104	22	**Commodity Code**	X	AN 1/30
			Code describing a commodity or group of commodities		
N/U	TD105	79	**Lading Description**	O	AN 1/50
			Description of an item as required for rating and billing purposes		
N/U	TD106	187	**Weight Qualifier**	O	ID 1/2
			Code defining the type of weight		
N/U	TD107	81	**Weight**	X	R 1/10
			Numeric value of weight		
N/U	TD108	355	**Unit or Basis for Measurement Code**	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
N/U	TD109	183	**Volume**	X	R 1/8
			Value of volumetric measure		
N/U	TD110	355	**Unit or Basis for Measurement Code**	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		

Segment:	**TD5** Carrier Details (Routing Sequence/Transit Time)	
Loop:	HL	
Level:	Detail / Shipment	
Usage:	Mandatory	
Max Use:	12	
Purpose:	To specify the carrier and sequence of routing and provide transit time information	
Syntax Notes:	1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.	
	2 If TD502 is present, then TD503 is required.	
	3 If TD507 is present, then TD508 is required.	
	4 If TD510 is present, then TD511 is required.	
	5 If TD513 is present, then TD512 is required.	
	6 If TD514 is present, then TD513 is required.	
Semantic Notes:		
Comments:	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.	
Example:	**TD5*B*2*CETR*LT****PP*00135**	

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name		AIAG Attributes
M	TD501	133	**Routing Sequence Code**	O	ID 1/2
			Code describing the relationship of a carrier to a specific shipment movement		
			B Origin / Delivery Carrier (Any Mode)		
M	TD502	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			2 Standard Carrier Alpha Code (SCAC)		
M	TD503	67	**Identification Code**	X	AN 2/20
			Code identifying a party or other code		
M	TD504	91	**Transportation Method/Type Code**	X	ID 1/2
			Code specifying the method or type of transportation for the shipment		
			Refer to 003060 Data Element Dictionary for acceptable values.		
N/U	TD505	387	**Routing**	X	AN 1/35
			Free-form description of the routing or requested routing for shipment, or the originating carrier's identity		
N/U	TD506	368	**Shipment/Order Status Code**	X	ID 2/2
			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		
O	TD507	309	**Location Qualifier**	O	ID 1/2
			Code identifying type of location		
			If TD504= "A", use code value "OR", meaning Origin (Shipping Point).		
			OR Origin (Shipping Point)		
			PP Pool Point		
O	TD508	310	**Location Identifier**	X	AN 1/30
			Code which identifies a specific location		
			Give pool code if TD507 is "PP"; give airport code identifier if TD507 is "OR" for an air shipment (e.g. DTW = Detroit Metro Airport).		
N/U	TD509	731	**Transit Direction Code**	O	ID 2/2
			The point of origin and point of direction		
N/U	TD510	732	**Transit Time Direction Qualifier**	O	ID 2/2
			Code specifying the value of time used to measure the transit time		
N/U	TD511	733	**Transit Time**	X	R 1/4
			The numeric amount of transit time		
N/U	TD512	284	**Service Level Code**	X	ID 2/2
			Code indicating the level of transportation service or the billing service offered by the transportation carrier		
N/U	TD513	284	**Service Level Code**	X	ID 2/2
			Code indicating the level of transportation service or the billing service offered by the transportation carrier		
N/U	TD514	284	**Service Level Code**	O	ID 2/2
			Code indicating the level of transportation service or the billing service offered by the transportation carrier		

Segment: **TD3** Carrier Details (Equipment)
Loop: HL
Level: Detail / Shipment
Usage: Mandatory
Max Use: 1
Purpose: To specify transportation details relating to the equipment used by the carrier
Syntax Notes:
1   If TD302 is present, then TD303 is required.
2   If TD304 is present, then TD305 is required.
3   If either TD305 or TD306 is present, then the other is required.

Semantic Notes:
Comments:

Example: **TD3*TL**654321**

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG	Attributes
M	TD301	40	**Equipment Description Code**	M	ID 2/2
			Code identifying type of equipment used for shipment		
O	TD302	206	**Equipment Initial**	O	AN 1/4
			Prefix or alphabetic part of an equipment unit's identifying number		
			This is the equipment owner's SCAC code and is required for all piggyback and ocean.		
M	TD303	207	**Equipment Number**	X	AN 1/10
			Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)		
N/U	TD304	187	**Weight Qualifier**	O	ID 1/2
			Code defining the type of weight		
N/U	TD305	81	**Weight**	X	R 1/10
			Numeric value of weight		
N/U	TD306	355	**Unit or Basis for Measurement Code**	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
N/U	TD307	102	**Ownership Code**	O	ID 1/1
			Code indicating the relationship of equipment to carrier or ownership of equipment		
N/U	TD308	407	**Seal Status Code**	O	ID 2/2
			Code indicating condition of door seal upon arrival		
N/U	TD309	225	**Seal Number**	O	AN 2/15
			Unique number on seal used to close a shipment		

Segment: # TD4 Carrier Details (Special Handling, or Hazardous Materials, or Both)

Loop: HL
Level: Detail / Shipment
Usage: Optional
Max Use: 5
Purpose: To specify transportation special handling requirements, or hazardous materials information, or both
Syntax Notes: 1 At least one of TD401 TD402 or TD404 is required.
2 If TD402 is present, then TD403 is required.
Semantic Notes: 1 TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A "Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not exist for this product.
Comments:

Example: **TD4*EW*D*NA**Y**

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG	Attributes
M	TD401	152	**Special Handling Code**	X	**ID 2/3**
			Code specifying special transportation handling instructions		
			Refer to 003060 Data Element Dictionary for acceptable code values.		
M	TD402	208	**Hazardous Material Code Qualifier**	X	**ID 1/1**
			Code which qualifies the Hazardous Material Class Code (209)		
			Refer to 003060 Data Element Dictionary for acceptable code values.		
M	TD403	209	**Hazardous Material Class Code**	X	**AN 1/4**
			Code specifying the kind of hazard for a material		
O	TD404	352	**Description**	X	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
O	TD405	1073	**Yes/No Condition or Response Code**	O	**ID 1/1**
			Code indicating a Yes or No condition or response		
			Refer to 003060 Data Element Dictionary for acceptable code values.		

Segment: **REF** Reference Identification

Loop:	HL
Level:	Detail / Shipment
Usage:	Mandatory
Max Use:	200
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	

Example: **REF*PK*123456**

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG Attributes	
M	REF01	128	**Reference Identification Qualifier**	M	**ID 2/3**
			Code qualifying the Reference Identification		
			Either "BM" or "PK" is required to be transmitted.		
			AO Appointment Number		
			AW Air Waybill Number		
			BM Bill of Lading Number		
			JA Beginning Job Sequence Number		
			JE Ending Job Sequence Number		
			MB Master Bill of Lading		
			PK Packing List Number		
M	REF02	127	**Reference Identification**	X	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
N/U	REF03	352	**Description**	X	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
N/U	REF04	C040	**Reference Identifier**	O	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier		

Segment:	**N1** Name		
Loop:	HL / N1	**Repeat:** 200	
Level:	Detail / Shipment		
Usage:	Mandatory		
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.	
	2	N105 and N106 further define the type of entity in N101.	
	3	The Supplier or Ship From entity identifier code must be sent, but only one should be transmitted when the SU and the SF are the same location. If the SU and SF are different locations then the use of both SU and SF is allowed. The use of the SU and SF should be consistent across all transactions sets. The entity identifier code used and cum control should be agreed upon between trading partners.	
Example:	**N1*SU**1*159357333**		

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG	Attributes
M	N101	98	**Entity Identifier Code**	M	ID 2/2
			Code identifying an organizational entity, a physical location, or an individual		
			BT Bill-to-Party		
			CS Consolidator		
			MI Planning Schedule / Material Release Issuer		
			SF Ship From		
			ST Ship To		
			SU Supplier / Manufacturer		
O	N102	93	**Name**	X	AN 1/35
			Free-form name		
M	N103	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			1 D-U-N-S Number, Dun & Bradstreet		
			92 Assigned by Buyer or Buyer's Agent		
M	N104	67	**Identification Code**	X	AN 2/20
			Code identifying a party or other code		
			Suppress internal dashes and spaces		
N/U	N105	706	**Entity Relationship Code**	O	ID 2/2
			Code describing entity relationship		
N/U	N106	98	**Entity Identifier Code**	O	ID 2/2
			Code identifying an organizational entity, a physical location, or an individual		

Segment: **HL** Hierarchical Level

Loop:	HL	**Repeat:** 200000
Level:	Detail / Order	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments	
Syntax Notes:		
Semantic Notes:		
Comments:	**1**	The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
	2	HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
	3	HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
	4	HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of a HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
	5	HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Example: **HL*2*1*O**

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG Attributes	
M	HL01	628	**Hierarchical ID Number**	M	AN 1/12
			A unique number assigned by the sender to identify a particular data segment in a hierarchical structure		
			"1" is used for the shipment level HL segment. Increment by 1 for each subsequent HL segment within the transaction.		
M	HL02	734	**Hierarchical Parent ID Number**	O	AN 1/12
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to		
M	HL03	735	**Hierarchical Level Code**	M	ID 1/2
			Code defining the characteristic of a level in a hierarchical structure		
			O Order		
N/U	HL04	736	**Hierarchical Child Code**	O	ID 1/1
			Code indicating if there are hierarchical child data segments subordinate to the level being described		
			Refer to 003060 Data Element Dictionary for acceptable code values.		

Segment: **LIN** Item Identification
Loop: HL
Level: Detail / Order
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data
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.
4 If either LIN10 or LIN11 is present, then the other is required.
5 If either LIN12 or LIN13 is present, then the other is required.
6 If either LIN14 or LIN15 is present, then the other is required.
7 If either LIN16 or LIN17 is present, then the other is required.
8 If either LIN18 or LIN19 is present, then the other is required.
9 If either LIN20 or LIN21 is present, then the other is required.
10 If either LIN22 or LIN23 is present, then the other is required.
11 If either LIN24 or LIN25 is present, then the other is required.
12 If either LIN26 or LIN27 is present, then the other is required.
13 If either LIN28 or LIN29 is present, then the other is required.
14 If either LIN30 or LIN31 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.

Example: **LIN**BP*753159*EC*B**

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name		AIAG Attributes
N/U	LIN01	350	**Assigned Identification**	O	**AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set		
M	LIN02	235	**Product/Service ID Qualifier**	M	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID Buyer's Part Number (BP) or Returnable Container Identifier (RC) must be used in this element.		

BP	Buyer's Part Number
CH	Country of Origin Code
EC	Engineering Change Level
RC	Returnable Container Number
VO	Vendor's Order Number
VP	Vendor's (Seller's) Part Number

Magna Usage	Reference Designator	Data Element	Name		AIAG Attributes
M	LIN03	234	**Product/Service ID**	M	**AN 1/40**
			Identifying number for a product or service		

LIN04 through LIN31 provides 14 additional pairs of Product/Service ID Qualifier and Product/Service ID.

Segment:	**SN1** Item Detail (Shipment)	
Loop:	HL	
Level:	Detail / Order	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To specify line-item detail relative to shipment	
Syntax Notes:	**1**	If either SN105 or SN106 is present, then the other is required.
Semantic Notes:	**1**	SN101 is the ship notice line-item identification.
Comments:	**1**	SN103 defines the unit of measurement for both SN102 and SN104.

Notes: Used to show the net quantity being shipped, the unit of measure and the cumulative Year-to-Date shipments.

Example: **SN1**250*PC*700**

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG	Attributes
N/U	SN101	350	**Assigned Identification**	O	AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set		
M	SN102	382	**Number of Units Shipped**	M	R 1/10
			Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set		
M	SN103	355	**Unit or Basis for Measurement Code**	M	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			This must be the same Unit of Measure provided on the corresponding releasing document.		
M	SN104	646	**Quantity Shipped to Date**	O	R 1/9
			Number of units shipped to date		
			The exact definition of "Quantity Shipped to Date" may vary between trading partners and their individual locations.		
N/U	SN105	330	**Quantity Ordered**	X	R 1/9
			Quantity ordered		
N/U	SN106	355	**Unit or Basis for Measurement Code**	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			Refer to 003060 Data Element Dictionary for acceptable code values.		
N/U	SN107	728	**Returnable Container Load Make-Up Code**	O	ID 1/2
			Code identifying the load make-up of the returnable containers in the shipment		
			Refer to 003060 Data Element Dictionary for acceptable code values.		
N/U	SN108	668	**Line Item Status Code**	O	ID 2/2
			Code specifying the action taken by the seller on a line item requested by the buyer		
			Refer to 003060 Data Element Dictionary for acceptable code values.		

Segment: **PRF** Purchase Order Reference

Loop: HL
Level: Detail / Order
Usage: Mandatory
Max Use: 1
Purpose: To provide reference to a specific purchase order.
Comments:

Example: **PRF*G5223**

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG	Attributes
M	PRF01	324	**Purchase Order Number**	M	AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser		
N/U	PRF02	328	**Release Number**	O	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
N/U	PRF03	327	**Change Order Sequence Number**	O	AN 1/8
			Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set.		
N/U	PRF04	373	**Date**	O	DT 6/6
			Date assigned by the purchaser to the purchase order. (YYMMDD)		
N/U	PRF05	350	**Assigned Identification**	O	AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set.		
N/U	PRF06	367	**Contract Number**	O	AN 1/30
			Contract Number.		
N/U	PRF07	92	**Purchase Order Type Code**	O	ID 2/2
			Code specifying the type of Purchase Order.		

Segment: **REF** Reference Identification

Loop:	HL
Level:	Detail / Order
Usage:	Optional
Max Use:	200
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	

Example: **REF*DK*AAA**

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG	Attributes
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			DK Dock Code		
			LF Line Feed		
M	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
N/U	REF03	352	**Description**	X	AN 1/80
			A free-form description to clarify the related data elements and their content		
N/U	REF04	C040	**Reference Identifier**	O	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier		

Segment:	**HL** Hierarchical Level
Loop:	HL

Segment: **HL** **Hierarchical Level**
Loop: HL   **Repeat:** 200000
Level: Detail / Item
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
Comments:

1   The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.

2   HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

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

4   HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of a HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

5   HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Example: **HL*3*2*I**

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name		AIAG Attributes
M	HL01	628	**Hierarchical ID Number**	M	AN 1/12
			A unique number assigned by the sender to identify a particular data segment in a hierarchical structure		
			"1" is used for the shipment level HL segment. Increment by 1 for each subsequent HL segment within the transaction.		
M	HL02	734	**Hierarchical Parent ID Number**	O	AN 1/12
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to		
M	HL03	735	**Hierarchical Level Code**	M	ID 1/2
			Code defining the characteristic of a level in a hierarchical structure		
			I Item		
N/U	HL04	736	**Hierarchical Child Code**	O	ID 1/1
			Code indicating if there are hierarchical child data segments subordinate to the level being described		
			Refer to 003060 Data Element Dictionary for acceptable code values.		

MEA Measurements

Segment:	
Loop:	HL
Level:	Detail / Item
Usage:	Optional
Max Use:	40
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

Syntax Notes:
1. At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2. If MEA05 is present, then MEA04 is required.
3. If MEA06 is present, then MEA04 is required.
4. If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5. Only one of MEA08 or MEA03 may be present.

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

Comments:
1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Example: MEA*PD*WD*65.0625*MM

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG Attributes	
M	MEA01	737	**Measurement Reference ID Code**	O	ID 2/2
			Code identifying the broad category to which a measurement applies		
			PD Physical Dimensions		
M	MEA02	738	**Measurement Qualifier**	O	ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies		
			LN Length		
			TH Thickness		
			WD Width		
			WT Weight		
M	MEA03	739	**Measurement Value**	X	R 1/20
			The value of the measurement		
M	MEA04	C001	**Composite Unit of Measure**	X	I 2/2
			To identify a composite unit of measure		
			Refer to 003060 Data Element Dictionary for acceptable values.		
N/U	MEA05	740	**Range Minimum**	X	R 1/20
			The value specifying the minimum of the measurement range		
N/U	MEA06	741	**Range Maximum**	X	R 1/20
			The value specifying the maximum of the measurement range		
N/U	MEA07	935	**Measurement Significance Code**	O	ID 2/2
			Code used to benchmark, qualify or further define a measurement value		
N/U	MEA08	936	**Measurement Attribute Code**	X	ID 2/2
			Code used to express an attribute response when a numeric measurement value cannot be determined		
N/U	MEA09	752	**Surface/Layer/Position Code**	O	ID 2/2
			Code indicating the product surface, layer or position that is being described		
N/U	MEA10	1373	**Measurement Method or Device**	O	ID 2/4
			The method or device used to record the measurement		

Segment: **REF** Reference Identification
Loop: HL
Level: Detail / Item
Usage: Optional
Max Use: 200
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

Example: **REF*DK*BBB**

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG	Attributes
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			DK Dock Code		
			LF Line Feed		
			LS Bar-Coded Serial Number		
			SE Serial Number		
M	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
N/U	REF03	352	**Description**	X	AN 1/80
			A free-form description to clarify the related data elements and their content		
N/U	REF04	C040	**Reference Identifier**	O	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier		

Segment: # CLD **Load Detail**

Loop:	HL /CLD **Repeat:** 200
Level:	Detail / Item
Usage:	Mandatory
Max Use:	1
Purpose:	To specify the number of material loads shipped
Syntax Notes:	
Semantic Notes:	**1** CLD05 is used to dimension the value given in CLD04.
Comments:	**1** The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar coded labels.

Example: **CLD*2*100*CNT71**

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG	Attributes
M	CLD01	622	**Number of Loads**	M	N0 1/5
			Number of customer-defined loads shipped by the supplier		
M	CLD02	382	**Number of Units Shipped**	M	R 1/10
			Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set		
			Total quantity per container		
M	CLD03	103	**Packaging Code**	O	AN 3/5
			Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material		
			It is the customer's responsibility to specify the packaging code(s) the supplier will transmit. Refer to 003060 Data Element Dictionary for acceptable values.		
N/U	CLD04	357	**Size**	O	R 1/8
			Size of supplier units in pack		
N/U	CLD05	355	**Unit or Basis for Measurement Code**	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			Any code except mutually defined		

Segment: **REF** Reference Identification
Loop: HL /CLD
Level: Detail / Item
Usage: Mandatory
Max Use: 200
Purpose: To specify identifying information
Syntax Notes: 1   At least one of REF02 or REF03 is required.
Semantic Notes: 1   REF04 contains data relating to the value cited in REF02.
Comments:

Example: **REF*LS*123657**

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG	Attributes
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			HC Heat Code		
			LS Bar-Coded Serial Number		
			SE Serial Number		
M	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Required		
N/U	REF03	352	**Description**	X	AN 1/80
			A free-form description to clarify the related data elements and their content		
N/U	REF04	C040	**Reference Identifier**	O	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier		

Segment: # ETD Excess Transportation Detail
Loop: HL
Level: Detail / Item
Usage: Optional
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 EDT04.
Comments:

Example: **ETD*ZZ*S*AE*123456**

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG	Attributes
M	ETD01	626	**Excess Transportation Reason Code**	M	ID 1/2
			Code identifying the reason for shipment via premium transportation rather than the normal mode of transportation		
			Refer to 003060 Data Element Dictionary for acceptable values.		
M	ETD02	627	**Excess Transportation Responsibility Code**	M	ID 1/1
			Code identifying the organization responsible for paying the premium transportation costs		
			A Customer Plant (Receiving Location)		
			S Supplier Authority		
			Z Carrier Responsibility		
M	ETD03	128	**Reference Identification Qualifier**	X	ID 2/3
			Code qualifying the Reference Identification		
			AE Authorization for Expense (AFE) Number		
M	ETD04	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
N/U	ETD05	743	**Returnable Container Freight Payment Responsibility Code**	O	ID 1/2
			Code specifying the responsibility for the return freight costs incurred when returnable containers are shipped in a premium transportation		

Segment:	**CTT** Transaction Totals
Loop:	None
Level:	Summary
Usage:	Mandatory
Max Use:	1
Purpose:	To transmit a hash total for a specific element in the transaction set
Syntax Notes:	**1** If either CTT03 or CTT04 is present, then the other is required.
	2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:	
Comments:	**1** This segment is intended to provide hash totals to validate transaction completeness and correctness.
Example:	**CTT*8*550**

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name	AIAG	Attributes
M	CTT01	354	**Number of Line Items** Total number of line items in the transaction set Total number of HL segments	M	N0 1/6
M	CTT02	347	**Hash Total** Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. 18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ------- 1855 Hash total prior to truncation . 855 Hash total after truncation to three-digit field.	O	R 1/10
N/U	CTT03	81	**Weight** Numeric value of weight	X	R 1/10
N/U	CTT04	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	X	ID 2/2
N/U	CTT05	183	**Volume** Value of volumetric measure	X	R 1/8
N/U	CTT06	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	X	ID 2/2
N/U	CTT07	352	**Description** A free-form description to clarify the related data elements and their content	O	AN 1/80

Segment:		**SE** Transaction Set Trailer	
Loop:		None	
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.	
Example:		**SE*39*0001**	

Data Element Summary

Magna Usage	Reference Designator	Data Element	Name		AIAG Attributes
M	SE01	96	**Number of Included Segments**	M	N0 1/10
			Total number of segments included in a transaction set including ST and SE segments		
M	SE02	329	**Transaction Set Control Number**	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
			Same as ST01.		

A1 - EXAMPLE OF AN ADVANCED SHIPPING NOTICE (856)
PIA SHIPMENTS WITH MASTER LABELS

Header
ST*856*0001
BSN*00*123456*961008*1523
DTM*011*961008*1520*ET*19

Shipment Level Detail
HL*1**S
MEA*PD*G*2500*KG
TD1*PLT71*4
TD5*B*2*CETR*LT
TD3*TL**654321
REF*PK*123456
N1*MI**1*159357333
N1*SU**1*198357456
N1*ST**1*159357456

Order Level Detail
HL*2*1*O
LIN**BP*753159
SN1**2200*PC*44000
PRF*G5223
REF*DK*AAA
REF*LF*02

 Item Level Detail
 HL*3*2*I
 REF*LS*PLT001
  CLD*12*100*BOX71
  REF*LS*123654
  REF*LS*123655
  REF*LS*123656
  REF*LS*123657
  REF*LS*123658
  REF*LS*123659
  REF*LS*123660
  REF*LS*123661
  REF*LS*123662
  REF*LS*123663
  REF*LS*123664
  REF*LS*123665

 HL*4*2*I
 REF*LS*PLT002
  CLD*10*100*BOX71
  REF*LS*124664
  REF*LS*124665
  REF*LS*124666
  REF*LS*124667
  REF*LS*124668
  REF*LS*124669
  REF*LS*124670
  REF*LS*124671
  REF*LS*124672
  REF*LS*124673

Continued…

```
HL*5*1*O
LIN**BP*753160
SN1**4000*PC*60000
PRF*G5224
REF*DK*BBB
REF*LF*01

        HL*6*5*I
        REF*LS*PLT003
                CLD*8*250*BOX71
                REF*LS*1256001
                REF*LS*1256002
                REF*LS*1256003
                REF*LS*1256004
                REF*LS*1256005
                REF*LS*1256006
                REF*LS*1256007
                REF*LS*1256008

        HL*7*5*I
        REF*LS*PLT004
                CLD*8*250*BOX71
                REF*LS*1236009
                REF*LS*1256010
                REF*LS*1256011
                REF*LS*1256012
                REF*LS*1256013
                REF*LS*1256014
                REF*LS*1256015
                REF*LS*1256016
```

Summary
```
CTT*7*7200
SE*74*0001
```

Segment	Explanation
ST*856*0001 _{N/L}	856 - Transaction Set Identifier Code 0001 - Transaction Set Control Number
BSN*00*123456*961008*1523 _{N/L}	00 - Original 123456 - Shipment ID (SID) 961008 - ASN Generation Date 1523 - ASN Generation Time
DTM*011*961008*1520*ET*19 _{N/L}	011 - Shipped Time Qualifier 961008 - Shipped Date 1520 - Shipped Time ET - Eastern Standard Time 19 - Century Indicator
HL*1**S _{N/L}	1 - First HL Segment in Transaction Set S - Shipment Level
MEA*PD*G*2500*KG _{N/L}	PD - Physical Dimension Qualifier G - Gross Weight Qualifier 2500 - Weight KG - Kilograms
TD1*PLT71*4 _{N/L}	PLT71 -Pallet 4 - Number of Pallets
TD5*B*2*CETR*LT _{N/L}	B - Origin/Delivery Carrier 2 - Standard Carrier Alpha Code (SCAC) CETR - Central Transport LT - Less than Truck Load
TD3*TL**654321 _{N/L}	TL – Trailer 654321 - Trailer Number
REF*PK*123456 _{N/L}	PK - Packing Slip Qualifier 123456 - Packing Slip Number
N1*MI**1*159357333 _{N/L}	MI - Material Release Issuer 1 - DUNS Number Qualifier 159357333 - DUNS Number of the Material Release Issuer
N1*SU**1*198357456 _{N/L}	SU – Suppler 1 - DUNS Number Qualifier 198357456 - DUNS Number of the Supplier Location
N1*ST**1*159357456 _{N/L}	ST - Ship To 1 - DUNS Number Qualifier 159357456 - DUNS Number of the Ship To Location
HL*2*1*O _{N/L}	2 - Second HL Segment in the Transaction Set 1 - Subordinate to First HL Segment in Transaction Set O - Order Level
LIN**BP*753159_{N/L}	BP - Buyer's Part Number Qualifier 753159 - Buyer's Part Number
SN1**2200*PC*44000 _{N/L}	2200 - Total Quantity Shipped PC - Unit of Measure (Pieces) 44000 - Year to Date Cumulative Quantity Shipped
PRF*G5223	G5223 – Purchase Order Number
REF*DK*AAA _{N/L}	DK - Dock Qualifier AAA – Dock
REF*LF*02 _{N/L}	LF - Line Feed Qualifier 02 - Line Feed Number
HL*3*2*I _{N/L}	3 - Third HL Segment in the Transaction Set 2 - Subordinate to Second HL Segment in Transaction Set I - Item Level
REF*LS*PLT001	LS – Bar Code Package ID Number Qualifier PLT001 – Bar Code Package Id Number
CLD*12*100*BOX71 _{N/L}	12- Number of Containers 100 - Number of Parts in Container BOX71 - Type of Container
REF*LS*123654 _{N/L}	LS - Bar Code Package ID Number Qualifier 123654 - Bar Code Package Id Number
REF*LS*123655 _{N/L}	LS - Bar Code Package ID Number Qualifier 123655 - Bar Code Package Id Number
REF*LS*123656 _{N/L}	LS - Bar Code Package ID Number Qualifier 123656 - Bar Code Package Id Number
Continued…	

Segment	Explanation
REF*LS*123657 N/L	LS - Bar Code Package ID Number Qualifier 123657 - Bar Code Package Id Number
REF*LS*123658 N/L	LS - Bar Code Package ID Number Qualifier 123658 - Bar Code Package Id Number
REF*LS*123659 N/L	LS - Bar Code Package ID Number Qualifier 123659 - Bar Code Package Id Number
REF*LS*123660 N/L	LS - Bar Code Package ID Number Qualifier 123660 - Bar Code Package Id Number
REF*LS*123661 N/L	LS - Bar Code Package ID Number Qualifier 123661 - Bar Code Package Id Number
REF*LS*123662 N/L	LS - Bar Code Package ID Number Qualifier 123662 - Bar Code Package Id Number
REF*LS*123663 N/L	LS - Bar Code Package ID Number Qualifier 123663 - Bar Code Package Id Number
REF*LS*123664 N/L	LS - Bar Code Package ID Number Qualifier 123664 - Bar Code Package Id Number
REF*LS*123665 N/L	LS - Bar Code Package ID Number Qualifier 123665 - Bar Code Package Id Number
HL*4*2*I N/L	4 - Third HL Segment in the Transaction Set 2 - Subordinate to Second HL Segment in Transaction Set I - Item Level
REF*LS*PLT002	LS – Bar Code Package ID Number Qualifier PLT002 – Bar Code Package Id Number
CLD*10*100*BOX71 N/L	10 - Number of Containers 100 - Number of Parts in Container BOX71 - Type of Container
REF*LS*124664 N/L	LS - Bar Code Package ID Number Qualifier 124664 - Bar Code Package Id Number
REF*LS*124665 N/L	LS - Bar Code Package ID Number Qualifier 124665 - Bar Code Package Id Number
REF*LS*124666 N/L	LS - Bar Code Package ID Number Qualifier 124666 - Bar Code Package Id Number
REF*LS*124667 N/L	LS - Bar Code Package ID Number Qualifier 124667 - Bar Code Package Id Number
REF*LS*124668 N/L	LS - Bar Code Package ID Number Qualifier 124668 - Bar Code Package Id Number
REF*LS*124669 N/L	LS - Bar Code Package ID Number Qualifier 124669 - Bar Code Package Id Number
REF*LS*124670 N/L	LS - Bar Code Package ID Number Qualifier 124670 - Bar Code Package Id Number
REF*LS*124671 N/L	LS - Bar Code Package ID Number Qualifier 124671 - Bar Code Package Id Number
REF*LS*124672 N/L	LS - Bar Code Package ID Number Qualifier 124672 - Bar Code Package Id Number
REF*LS*124673 N/L	LS - Bar Code Package ID Number Qualifier 124673 - Bar Code Package Id Number

Above is the explanation for the first Order/Item Level only.
This structure is repeated for each part ordered.

CTT*7*6200 N/L	7- Total Number of HL Segments 6200 - Total Quantity Shipped (SN102)
SE*74*0001 N/L	74 - Total Number of Segments in Transaction Set including ST & SE 0001 – Transaction Set Control Number

A2 - EXAMPLE OF AN ADVANCED SHIPPING NOTICE (856)
PIA SHIPMENTS
CONTAINERS WITH THE SAME PART AND QUANTITY
CONTAINERS WITH THE SAME PART AND MIXED QUANTITY

Header
ST*856*0001
BSN*00*123456*961008*1523
DTM*011*961008*1520*ET*19

Shipment Level Detail
HL*1**S
MEA*PD*G*500*KG
TD1*CNT71*6
TD5*B*2*CETR*LT
TD3*TL**654321
REF*PK*123456
N1*MI**1*159357333
N1*SU**1*198357456
N1*ST**1*159357456

Order Level Detail
HL*2*1*O
LIN**BP*753159
SN1**500*PC*1500
PRF*G5223
REF*DK*AAA
REF*LF*02

 Item Level Detail
 HL*3*2*I
  CLD*2*250*CNT71
  REF*LS*123654
  REF*LS*123655

HL*4*1*O
LIN**BP*753160
SN1**375*PC*900
PRF*G5224
REF*DK*BBB
REF*LF*01

 HL*5*4*I
  CLD*3*100*CNT71
  REF*LS*123656
  REF*LS*123657
  REF*LS*123658

 HL*6*4*I
  CLD*1*75*CNT71
  REF*LS*123659

Summary
CTT*6*875
SE*39*0001

Segment	Explanation
ST*856*0001 N/L	856 - Transaction Set Identifier Code 0001 - Transaction Set Control Number
BSN*00*123456*961008*1523 N/L	00 – Original 123456 - Shipment ID (SID) 961008 - ASN Generation Date 1523 - ASN Generation Time
DTM*011*961008*1520*ET*19 N/L	011 - Shipped Time Qualifier 961008 - Shipped Date 1520 - Shipped Time ET - Eastern Standard Time 19 - Century Indicator
HL*1**S N/L	1 - First HL Segment in Transaction Set S - Shipment Level
MEA*PD*G*500*KG N/L	PD - Physical Dimension Qualifier G - Gross Weight Qualifier 500 – Weight KG – Kilograms
TD1*CNT71*6 N/L	CNT71 – Container 6 - Number of Containers
TD5*B*2*CETR*LT N/L	B - Origin/Delivery Carrier 2 - Standard Carrier Alpha Code (SCAC) CETR - Central Transport LT - Less than Truck Load
TD3*TL**654321 N/L	TL – Trailer 654321 - Trailer Number
REF*PK*123456 N/L	PK - Packing Slip Qualifier 123456 - Packing Slip Number
N1*MI**1*159357333 N/L	MI - Material Release Issuer 1 - DUNS Number Qualifier 159357333 - DUNS Number of the Material Release Issuer
N1*SU**1*198357456 N/L	SU – Suppler 1 - DUNS Number Qualifier 198357456 - DUNS Number of the Supplier Location
N1*ST**1*159357456 N/L	ST - Ship To 1 - DUNS Number Qualifier 159357456 - DUNS Number of the Ship To Location
HL*2*1*O N/L	2 - Second HL Segment in the Transaction Set 1 - Subordinate to First HL Segment in Transaction Set O - Order Level
LIN**BP*753159 N/L	BP - Buyer's Part Number Qualifier 753159 - Buyer's Part Number
SN1**500*PC*`1500 N/L	500 - Total Quantity Shipped PC - Unit of Measure (Pieces) 1500 - Year to Date Cumulative Quantity Shipped
PRF*G5223 N/L	G5223 - Purchase Order Number
REF*DK*AAA N/L	DK - Dock Qualifier AAA – Dock
REF*LF*02 N/L	LF - Line Feed Qualifier 02 - Line Feed Number
HL*3*2*I N/L	3 - Third HL Segment in the Transaction Set 2 - Subordinate to Second HL Segment in Transaction Set I - Item Level
CLD*2*250*CNT71 N/L	2 - Number of Containers 250 - Number of Parts in Container CNT71 - Type of Container
REF*LS*123654 N/L	LS - Bar Code Package ID Number Qualifier 123654 - Bar Code Package Id Number
REF*LS*123655 N/L	LS - Bar Code Package ID Number Qualifier 123655 - Bar Code Package Id Number

Segment	Explanation
HL*4*1*O _{N/L}	4 - Third HL Segment in the Transaction Set 1 - Subordinate to First HL Segment in Transaction Set O - Order Level
LIN**BP*753160 _{N/L}	BP - Buyer's Part Number Qualifier 753160 - Buyer's Part Number
SN1**375*PC*900 _{N/L}	375 - Total Quantity Shipped PC - Unit of Measure (Pieces) 900 - Year to Date Cumulative Quantity Shipped
PRF*G5224 _{N/L}	G5224 – Purchase Order Number
REF*DK*BBB _{N/L}	DK - Dock Qualifier BBB – Dock
REF*LF*01 _{N/L}	LF - Line Feed Qualifier 01 - Line Feed Number
HL*5*4*I _{N/L}	5 - Third HL Segment in the Transaction Set 4 - Subordinate to Second HL Segment in Transaction Set I - Item Level
CLD*3*100*CNT71 _{N/L}	3 - Number of Containers 100 - Number of Parts in Container CNT71 - Type of Container
REF*LS*123656 _{N/L}	LS - Bar Code Package ID Number Qualifier 123656 - Bar Code Package Id Number
REF*LS*123657 _{N/L}	LS - Bar Code Package ID Number Qualifier 123657 - Bar Code Package Id Number
REF*LS*123658 _{N/L}	LS - Bar Code Package ID Number Qualifier 123658 - Bar Code Package Id Number
HL*6*4*I _{N/L}	6 - Third HL Segment in the Transaction Set 4 - Subordinate to Second HL Segment in Transaction Set I - Item Level
CLD*1*75*CNT71 _{N/L}	1 - Number of Containers 75 - Number of Parts in Container CNT71 - Type of Container
REF*LS*123659 _{N/L}	LS - Bar Code Package ID Number Qualifier 123659 - Bar Code Package Id Number
CTT*6*875 _{N/L}	6 - Total Number of HL Segments 875 - Total Quantity Shipped (SN102)
SE*36*0001 _{N/L}	36 - Total Number of Segments in Transaction Set including ST & SE 0001 – Transaction Set Control Number

A3 - EXAMPLE OF AN ADVANCED SHIPPING NOTICE (856)
STEEL SHIPMENTS

Header
ST*856*0001
BSN*00*123456*961008*1523
DTM*011*961008*1520*ET*19

Shipment Level Detail
HL*1**S
MEA*PD*G*3600*KG
TD1*COL71*3
TD5*B*2*CETR*LT
TD3*TL**654321
REF*PK*123456
N1*MI**1*159357333
N1*SU**1*198357456
N1*ST**1*159357456

Order Level Detail
HL*2*1*O
LIN**BP*753159
SN1**2*CX*75000
PRF*G5223
REF*DK*AAA
REF*LF*02

       Item Level Detail
       HL*3*2*I
       MEA*PD*TH*.0325*MM
       MEA*PD*WD*65.0625*MM
       MEA*PD*WT*1300*KG
           CLD*1*1300*COL71
           REF*HC*868887
           REF*LS*123654

       HL*4*2*I
       MEA*PD*TH*.0325*MM
       MEA*PD*WD*65.0625*MM
       MEA*PD*WT*1300*KG
           CLD*1*1300*COL71
           REF*HC*868887
           REF*LS*123655

HL*5*1*O
LIN**BP*753160
SN1**1*CX*900
PRF*G5224
REF*DK*BBB
REF*LF*01

       HL*6*5*I
       MEA*PD*TH*.0325*MM
       MEA*PD*WD*65.0625*MM
       MEA*PD*WT*1000*KG
           CLD*1*1000*COL71
           REF*HC*868886
           REF*LS*123656

Summary
CTT*6*3
SE*45*0001

Segment	Explanation
ST*856*0001 _{N/L}	856 - Transaction Set Identifier Code 0001 - Transaction Set Control Number
BSN*00*123456*961008*1523 _{N/L}	00 – Original 123456 - Shipment ID (SID) 961008 - ASN Generation Date 1523 - ASN Generation Time
DTM*011*961008*1520*ET*19 _{N/L}	011 - Shipped Time Qualifier 961008 - Shipped Date 1520 - Shipped Time ET - Eastern Standard Time 19 - Century Indicator
HL*1**S _{N/L}	1 - First HL Segment in Transaction Set S - Shipment Level
MEA*PD*G*3600*KG _{N/L}	PD - Physical Dimension Qualifier G - Gross Weight Qualifier 3600 – Weight KG – Kilograms
TD1*COL71*3 _{N/L}	COL71 – Container Type 3 - Number of Containers
TD5*B*2*CETR*LT _{N/L}	B - Origin/Delivery Carrier 2 - Standard Carrier Alpha Code (SCAC) CETR - Central Transport LT - Less than Truck Load
TD3*TL**654321 _{N/L}	TL – Trailer 654321 - Trailer Number
REF*PK*123456 _{N/L}	PK - Packing Slip Qualifier 123456 - Packing Slip Number
N1*MI**1*159357333 _{N/L}	MI - Material Release Issuer 1 - DUNS Number Qualifier 159357333 – DUNS Number of the Material Release Issuer
N1*SU**1*198357456 _{N/L}	SU – Suppler 1 - DUNS Number Qualifier 1198357456 - DUNS Number of the Supplier Location
N1*ST**1*159357456 _{N/L}	ST - Ship To 1 - DUNS Number Qualifier 159357456 - DUNS Number of the Ship To Location
HL*2*1*O _{N/L}	2 - Second HL Segment in the Transaction Set 1 - Subordinate to First HL Segment in Transaction Set O - Order Level
LIN**BP*753159 _{N/L}	BP - Buyer's Part Number Qualifier 753159 - Buyer's Part Number
SN1**2*CX*75000 _{N/L}	2 - Total Quantity Shipped CX - Unit of Measure (Hundredth Weight) 75000 - Year to Date Cumulative Quantity Shipped
PRF*G5223	G5223 - Purchase Order Number
REF*DK*AAA _{N/L}	DK - Dock Qualifier AAA – Dock
REF*LF*02 _{N/L}	LF - Line Feed Qualifier 02 - Line Feed Number

Segment	Explanation
HL*3*2*I _{N/L}	3 - Third HL Segment in the Transaction Set 2- Subordinate to Second HL Segment in Transaction Set I - Item Level
MEA*PD*TH*.0325*MM	PD - Physical Dimension Qualifier TH – Thickness Qualifier .0325 – Thickness Measurement MM - Unit of Measure (Millimeters)
MEA*PD*WD*65.0625*MM	PD - Physical Dimension Qualifier WD - Width Qualifier 65.0625 - Width Measurement MM - Unit of Measure
MEA*PD*WT*1300*KG	PD - Physical Dimension Qualifier WT - Weight Qualifier 1300 - Actual Weight Measurement KG - Unit of Measure
CLD*1*1300*COL71 _{N/L}	1 - Number of Coils 1300 - Weight of Coil(s) COL71 - Type of Container (COIL)
REF*HC*868887 _{N/L}	HC - Bar Code Heat Code Number Qualifier 868887 - Bar Code Heat Code Number
REF*LS*123654 _{N/L}	LS - Bar Code Package ID Number Qualifier 123654 - Bar Code Package Id Number
HL*4*2*I _{N/L}	4 - Fourth HL Segment in the Transaction Set 2 - Subordinate to Second HL Segment in Transaction Set I - Item Level
MEA*PD*TH*.0325*MM	PD - Physical Dimension Qualifier TH – Thickness Qualifier .0325 – Thickness Measurement MM - Unit of Measure (Millimeters)
MEA*PD*WD*65.0625*MM	PD - Physical Dimension Qualifier WD - Width Qualifier 65.0625 - Width Measurement MM - Unit of Measure
MEA*PD*WT*1300*KG	PD - Physical Dimension Qualifier WT - Weight Qualifier 1300 - Actual Weight Measurement KG - Unit of Measure
CLD*1*1300*COL71 _{N/L}	1 - Number of Coils 1300 - Weight of Coil(s) COL1 – Type of Container (COIL)
REF*HC*868887 _{N/L}	HC - Bar Code Heat Code Number Qualifier 868887 - Bar Code Heat Code Number
REF*LS*123655 _{N/L}	LS - Bar Code Package ID Number Qualifier 123655 - Bar Code Package Id Number
HL*5*1*O _{N/L}	5 - Fifth HL Segment in the Transaction Set 1 - Subordinate to First HL Segment in Transaction Set O - Order Level
LIN**BP*753160_{N/L}	BP - Buyer's Part Number Qualifier 753160 - Buyer's Part Number
SN1**1*CX*900 _{N/L}	1 - Total Quantity of Coils Shipped CX - Unit of Measure (Hundredth Weight) 900 - Year to Date Cumulative Quantity Shipped
PRF*G5224	G5224 - Purchase Order Number
REF*DK*BBB _{N/L}	DK - Dock Qualifier BBB – Dock
REF*LF*01 _{N/L}	LF - Line Feed Qualifier 01 - Line Feed Number

Segment	Explanation
HL*6*5*I _{N/L}	6 - Sixth HL Segment in the Transaction Set 5 – Subordinate to Fifth HL Segment in Transaction Set I - Item Level
MEA*PD*TH*.0325*MM	PD - Physical Dimension Qualifier TH – Thickness Qualifier .0325 – Thickness Measurement MM - Unit of Measure (Millimeters)
MEA*PD*WD*65.0625*MM	PD - Physical Dimension Qualifier WD - Width Qualifier 65.0625 - Width Measurement MM - Unit of Measure
MEA*PD*WT*1000*KG	PD - Physical Dimension Qualifier WT - Weight Qualifier 1000 - Actual Weight Measurement KG - Unit of Measure
CLD*1*1000*COL71 _{N/L}	1 - Number of Coils 1000 - Weight of Coil(s) COL71 - Type of Container (COIL)
REF*HC*868886 _{N/L}	HC - Bar Code Heat Code Number Qualifier 868886 - Bar Code Heat Code Number
REF*LS*123656 _{N/L}	LS - Bar Code Package ID Number Qualifier 123656 - Bar Code Package Id Number
CTT*6*3 _{N/L}	6 - Total Number of HL Segments 3 - Total Quantity Shipped (SN102)
SE*45*0001 _{N/L}	45 - Total Number of Segments in Transaction Set including ST & SE 0001 - Transaction Set Control Number

A4 - EXAMPLE OF AN ADVANCED SHIPPING NOTICE (856)
MIXED LOAD

Header
ST*856*0001
BSN*00*123456*961008*1523
DTM*011*961008*1520*ET*19

Shipment Level Detail
HL*1**S
MEA*PD*G*3600*KG
TD1*PLT71*1
TD5*B*2*CETR*LT
TD3*TL**654321
REF*PK*123456
N1*MI**1*159357333
N1*SU**1*198357456
N1*ST**1*159357456

Order Level Detail
HL*2*1*O
LIN**BP*753159
SN1**1800*PC*75000
PRF*G5223
REF*DK*AAA
REF*LF*02

 Item Level Detail
 HL*3*2*I
  CLD*1*1800*BOX71
  REF*LS*123654

HL*4*1*O
LIN**BP*753160
SN1**2000*PC*95000
PRF*G5224
REF*DK*BBB
REF*LF*01

 HL*5*4*I
  CLD*4*500*BOX71
  REF*LS*123656
  REF*LS*123657
  REF*LS*123658
  REF*LS*123659

Summary
CTT*5*3
SE*35*0001

Segment	Explanation
ST*856*0001 _{N/L}	856 - Transaction Set Identifier Code 0001 - Transaction Set Control Number
BSN*00*123456*961008*1523 _{N/L}	00 – Original 123456 - Shipment ID (SID) 961008 - ASN Generation Date 1523 - ASN Generation Time
DTM*011*961008*1520*ET*19 _{N/L}	011 - Shipped Time Qualifier 961008 - Shipped Date 1520 - Shipped Time ET - Eastern Standard Time 19 - Century Indicator
HL*1**S _{N/L}	1 - First HL Segment in Transaction Set S - Shipment Level
MEA*PD*G*3600*KG _{N/L}	PD - Physical Dimension Qualifier G - Gross Weight Qualifier 3600 – Weight KG – Kilograms
TD1*PLT71*1 _{N/L}	PLTL71 – Container Type 1- Number of Containers
TD5*B*2*CETR*LT _{N/L}	B - Origin/Delivery Carrier 2 - Standard Carrier Alpha Code (SCAC) CETR - Central Transport LT - Less than Truck Load
TD3*TL**654321 _{N/L}	TL – Trailer 654321 - Trailer Number
REF*PK*123456 _{N/L}	PK - Packing Slip Qualifier 123456 - Packing Slip Number
N1*MI**1*159357333 _{N/L}	MI - Material Release Issuer 1 - DUNS Number Qualifier 159357333 – DUNS Number of the Material Release Issuer
N1*SU**1*198357456 _{N/L}	SU – Suppler 1 - DUNS Number Qualifier 1198357456 - DUNS Number of the Supplier Location
N1*ST**1*159357456 _{N/L}	ST - Ship To 1 - DUNS Number Qualifier 159357456 - DUNS Number of the Ship To Location
HL*2*1*O _{N/L}	2 - Second HL Segment in the Transaction Set 1 - Subordinate to First HL Segment in Transaction Set O - Order Level
LIN**BP*753159_{N/L}	BP - Buyer's Part Number Qualifier 753159 - Buyer's Part Number
SN1**1800*PC*75000 _{N/L}	1800 - Total Quantity Shipped PC - Unit of Measure (Hundredth Weight) 75000 - Year to Date Cumulative Quantity Shipped
PRF*G5223	G5223 - Purchase Order Number
REF*DK*AAA _{N/L}	DK - Dock Qualifier AAA – Dock
REF*LF*02 _{N/L}	LF - Line Feed Qualifier 02 - Line Feed Number
HL*3*2*I _{N/L}	3 - Third HL Segment in the Transaction Set 2- Subordinate to Second HL Segment in Transaction Set I - Item Level
CLD*1*1800*BOX71 _{N/L}	1 - Number of Containers 1800 – Quantity per Container BOX71 - Type of Container
REF*LS*123654 _{N/L}	LS - Bar Code Package ID Number Qualifier 123654 - Bar Code Package Id Number

Continued…

HL*4*1*O _{N/L}	4 - Fourth HL Segment in the Transaction Set
	1 - Subordinate to First HL Segment in Transaction Set
	O - Order Level
LIN**BP*753160_{N/L}	BP - Buyer's Part Number Qualifier
	753160 - Buyer's Part Number
SN1**2000*PC*95000 _{N/L}	2000 - Total Quantity Shipped
	PC - Unit of Measure (Hundredth Weight)
	95000 - Year to Date Cumulative Quantity Shipped
PRF*G5224	G5224 - Purchase Order Number
REF*DK*BBB _{N/L}	DK - Dock Qualifier
	BBB – Dock
REF*LF*01 _{N/L}	LF - Line Feed Qualifier
	01 - Line Feed Number
HL*5*4*I _{N/L}	5 - Fifth HL Segment in the Transaction Set
	4 – Subordinate to Fourth HL Segment in Transaction Set
	I - Item Level
CLD*4*500*BOX71 _{N/L}	4 - Number of Containers
	500 – Quantity per Container
	BOX71 - Type of Container
REF*LS*123656 _{N/L}	LS - Bar Code Package ID Number Qualifier
	123656 - Bar Code Package Id Number
REF*LS*123657 _{N/L}	LS - Bar Code Package ID Number Qualifier
	123657 - Bar Code Package Id Number
REF*LS*123658 _{N/L}	LS - Bar Code Package ID Number Qualifier
	123658 - Bar Code Package Id Number
REF*LS*123659 _{N/L}	LS - Bar Code Package ID Number Qualifier
	123659 - Bar Code Package Id Number
CTT*5*3800 _{N/L}	5 - Total Number of HL Segments
	3800 - Total Quantity Shipped (SN102)
SE*35*0001 _{N/L}	35 - Total Number of Segments in Transaction Set including ST & SE
	0001 - Transaction Set Control Number

Notes:
- The Supplier must clearly mark each mixed load as **MIXED LOAD.**
- The receiver of the material should brake down the mixed load shipment so that each Part/PO combination is received as either a single pack-item, or as a multi-pack/mixed quantity pack-item.
- Mixed loads should be the exception, not the norm, when the Customer orders a Supplier shipment.