EDI Implementation Guidelines

ANSI X12 Version / Release 3020 856 Ship Notice / Manifest





856 Ship Notice/Manifest

Functional Group ID=SH

Introduction:

This standard provides the standardized format and establishes the data contents of a ship notice/manifest transaction set. A ship notice/manifest lists the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Heading:

	Pos. <u>No.</u>	Seg. <u>ID</u>	Name	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u>	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BSN	Beginning Segment for Ship Notice	М	1		
Not Used	030	NTE	Note/Special Instruction	F	100		
	040	DTM	Date/Time/Period	0	10		

Detail:

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u>	Notes and Comments
			LOOP ID - HL			200000	
M	010	HL	Hierarchical Level	М	1		c1
Not Used	020	LIN	Item Identification	0	1		
Not Used	030	SN1	Item Detail (Shipment)	0	1		
Not Used	040	SLN	Subline Item Detail	0	100		
Not Used	050	PRF	Purchase Order Reference	0	1		
Not Used	060	PO4	Item Physical Details	0	1		

EDI Implementation Guidelines ANSI X.12 856 V 3020

Page 2 of 49



Not Used	070	PID	Product/Item Description	0	200		
M	080	MEA	Measurements	M	40		
Not Used	090	PWK	Paperwork	0	25		
Not Used	100	PKG	Marking, Packaging, Loading	0	25		
M	110	TD1	Carrier Details (Quantity and Weight)	M	20		
M	120	TD5	Carrier Details (Routing Sequence /Transit	M	12		
M	130	TD3	Carrier Details (Equipment)	M	12		
	4.40	TD4	Carrier Details (Special Handling, or	_	_		
	140	TD4	Hazardous Materials, or Both)	0	5		
М	150	REF	Reference Numbers	М	200		
M	150	REF	Reference Numbers	M	200		
Not Used	160	PER	Administrative Communications Contact	0	3		
			LOOP ID - CLD			200	
Not Used	170	CLD	Load Detail	0	1		
Not Used	180	REF	Reference Numbers	0	200		
Not Used	190	MAN	Marks and Numbers	0	10		
Not Used	200	DTM	Date/Time/Period	0	10		
Not Used	210	FOB	F.O.B. Related Instructions	0	1		
			LOOP ID - N1			200	
M	220	N1	Name	М	1		
	230	N2	Additional Name Information	0	2		
Not Used	240	N3	Address Information	0	2		
Not Used	250	N4	Geographic Location	0	1		
Not Used	260	REF	Reference Numbers	0	12		
Not Used	270	PER	Administrative Communications Contact	0	3		
Not Used		FOB	F.O.B. Related Instructions	0	1		
Not Used	290	SDQ	Destination Quantity	0	50		
Not Used	300	ETD	Excess Transportation Detail	0	1		
Not Used	310	CUR	Currency	0	1		
Not Used	320	ITA	Allowance, Charge or Service	0	10		
			LOOP ID - HL			200000	
	010	HL	Hierarchical Level	0	1	С	2
M	020	LIN	Item Identification	M	1		
M	030	SN1	Item Detail (Shipment)	M	1		
Not Used	040	SLN	Subline Item Detail	0	100		
M	050	PRF	Purchase Order Reference	M	1		
Not Used	060	PO4	Item Physical Details	0	1		
Not Used	070	PID	Product/Item Description	0	200		
Not Used	080	MEA	Measurements	0	40		
Not Used	090	PWK	Paperwork	0	25		
Not Used	100	PKG	Marking, Packaging, Loading	0	25		



Not Used	110	TD1	Carrier Details (Quantity and Weight)	0	20		
			Carrier Details (Routing Sequence/Transit	_			
Not Used	120	TD5	Time)	0	12		
Not Used	130	TD3	Carrier Details (Equipment)	0	12		
Not Used	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	0	5		
Not Used	150	REF	Reference Numbers	0	200		
Not Used	160	PER	Administrative Communications Contact	0	3		
			LOOP ID - CLD			200	
	170	CLD	Load Detail	0	1		
Not Used	180	REF	Reference Numbers	0	200		
Not Used	190	MAN	Marks and Numbers	0	10		
Not Used	200	DTM	Date/Time/Period	0	10		
Not Used	210	FOB	F.O.B. Related Instructions	0	1		
			LOOP ID - N1			200	
Not Used	220	N1	Name	0	1		
Not Used	230	N2	Additional Name Information	0	2		
Not Used	240	N3	Address Information	0	2		
Not Used	250	N4	Geographic Location	0	1		
Not Used	260	REF	Reference Numbers	0	12		
Not Used	270	PER	Administrative Communications Contact	0	3		
Not Used	280	FOB	F.O.B. Related Instructions	0	1		
Not Used	290	SDQ	Destination Quantity	0	50		
Not Used	300	ETD	Excess Transportation Detail	0	1		
Not Used	310	CUR	Currency	0	1		
Not Used	320	ITA	Allowance, Charge or Service	0	10		
			LOOP ID - HL			200000	
M	010	HL	Hierarchical Level	М	1		с3
M	020	LIN	Item Identification	M	1		
M	030	SN1	Item Detail (Shipment)	М	1		
Not Used	040	SLN	Subline Item Detail	0	100		
M	050	PRF	Purchase Order Reference	М	1		
Not Used	060	PO4	Item Physical Details	0	1		
Not Used	070	PID	Product/Item Description	0	200		
	080	MEA	Measurements	0	40		
Not Used	090	PWK	Paperwork	0	25		
Not Used	100	PKG	Marking, Packaging, Loading	0	25		
Not Used	110	TD1	Carrier Details (Quantity and Weight)	0	20		
Not Used	120	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12		
Not Used	130	TD3	Carrier Details (Equipment)	0	12		



Not Used	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	0	5	
	150	REF	Reference Numbers	0	200	
	150	REF	Reference Numbers	0	200	
Not Used	160	PER	Administrative Communications Contact	0	3	
			LOOP ID - CLD			200
	170	CLD	Load Detail	0	1	
	180	REF	Reference Numbers	0	200	
Not Used	190	MAN	Marks and Numbers	0	10	
Not Used	200	DTM	Date/Time/Period	0	10	
Not Used	210	FOB	F.O.B. Related Instructions	0	1	
			LOOP ID - N1			200
Not Used	220	N1	Name	0	1	
Not Used	230	N2	Additional Name Information	0	2	
Not Used	240	N3	Address Information	0	2	
Not Used	250	N4	Geographic Location	0	1	
Not Used	260	REF	Reference Numbers	0	12	
Not Used	270	PER	Administrative Communications Contact	0	3	
Not Used	280	FOB	F.O.B. Related Instructions	0	1	
Not Used	290	SDQ	Destination Quantity	0	50	
Not Used	300	ETD	Excess Transportation Detail	0	1	
Not Used	310	CUR	Currency	0	1	
Not Used	320	ITA	Allowance, Charge or Service	0	10	

Summary:

	Pos.	Seg.		Req.	Req.		Notes and	
	No.	ID	Name	Des.	Max.Use	Repeat	Comments	
М	10	CTT	Transaction Totals	М	1		n1	
M	20	SE	Transaction Set Trailer	М	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 HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
- 2. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
- **3.** The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.



ST

Segment: Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

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

Syntax Notes: Semantic Notes:

Comments: 1 The transaction set identifier (ST01) is intended for use by the translation

routines of the interchange partners to select the appropriate transaction set

definition (e.g., 810 selects the invoice transaction set).

	Ref.	Data			
	Des.	Element	Name	Att	ributes
M	ST01	143	Transaction Set Identifier Code	M	ID 3/3
			Code uniquely identifying a Transaction Set 856 X12.10 Ship Notice/Manifest		
М	ST02	329	Transaction Set Control Number Identifying control number assigned by the originator for a transaction set.	М	AN 4/9



BSN

Segment: Beginning Segment for Ship Notice

Position: 020

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

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

transaction set

Syntax Notes:

Semantic Notes:

Comments: 1 BSN03 is the date the shipment transaction set is created.

2 BSN04 is the time the shipment transaction set is created.

	Ref.	Data			
	Des.	Element	<u>Name</u>	Att	ributes
M	BSN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original	M	ID 2/2
M	BSN02	396	Shipment Identification A unique control number assigned by the original shipper to identify a specific shipment ASN number. Unique supplier assigned number that is not repeated within one year. Adient recomends using the packing slip number. ASN Number shouldnt start with characters like "C", "I" or "S".	M	AN 2/30
M	BSN03	373	Date	М	DT 6/6
			Date (YYMMDD)		
			Date ASN was created. YYMMDD		
M	BSN04	337	Time	М	TM 4/6
			Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)		
			Time ASN was created. HHMM		
X	BSN05	1005	Hierarchical Structure Code	0	ID 4/4
			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 003020 Data Element Dictionary for acceptable code values		



DTM

Segment: Date/Time/Period

Position: 040

Loop:

Level: Heading Usage: Optional Max Use: 10

Purpose: To specify pertinent dates and times

Syntax Notes: 1 At least one of DTM02 or DTM03 is required.

Semantic Notes: Comments:

	Ref.	Data			
	Des.	Element	<u>Name</u>	Att	ributes
M	DTM01	374	Date/Time Qualifier	M	ID 3/3
			Code specifying type of date or time, or both date and time		
			011 Shipped		
			017 Estimated Delivery		
	DTM02	373	Date	X	DT 6/6
			Date (YYMMDD)		
			YYMMDD		
	DTM03	337	Time	X	TM 4/6
			Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000		
			through 235959)		
			ННММ		
X	DTM04	623	Time Code	0	ID 2/2
			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		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
X	DTM05	624	Century	0	N0 2/2
			The first two characters in the designation of the year (CCYY)		



HL

Segment: Hierarchical Level

Position: 010

Loop: HL Mandatory

Level: Detail
Usage: Mandatory

Max Use:

Purpose: To identify dependencies among and the content of hierarchically

related groups of data segments

Syntax Notes:

Semantic Notes: Comments:

1 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, HL 03 is used to indicate the subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- **5** HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: Shipment Level

	Ref.	Data			
	Des.	Element	<u>Name</u>	<u>Att</u>	<u>ributes</u>
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		
	HL02	734	Hierarchical Parent ID Number	0	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		
			S Shipment		



HL04 736 Hierarchical Child Code

O ID 1/1

Code indicating whether if there are hierarchical child data segments subordinate to the level being described.

Refer to 003020 Data Element Dictionary for acceptable code values.



MEA

Segment: Measurements

Position: 080
Loop: HL
Level: Detail
Usage: Mandatory

Max Use: 40

Purpose: To specify physical measurements, including dimension tolerances, weights and

counts.

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

2 If MEA03 is present, then MEA04 is required
3 If MEA05 is present, then MEA04 is required.
4 If MEA06 is present, then MEA04 is required.

5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

6 Only one of MEA08 or MEA03 may be present.

Semantic Notes:

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

Ref.	Data		
Des.	Element	<u>Name</u>	<u>Attributes</u>
MEA01	737	Measurement Reference ID Code	O ID 2/2
		Code specifying the application of physical measurement cited.	
		PD Physical Dimensions	
MEA02	738	Measurement Qualifier	O ID 1/3
		Code identifying the type of measurement.	
		G Gross Weight	
		N Actual Net Weight	
MEA03	739	Measurement Value	X R 1/10
		The value of the measurement	
MEA04	355	Unit or Basis for Measurement Code	X ID 2/2
		Code identifying the basic unit of measurement.	
		LB Pound, KG Kilogram,	
MEA05	740	Range Minimum	X R 1/10
		The value specifying the minimum of the measurement range	



MEA06	741	Range Maximum	X	R 1/10
		The value specifying the maximum of the measurement range		
MEA07	935	Measurement Significance Code	0	ID 2/2
		Code used to benchmark, qualify or further define a measurement value		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
MEA08	936	Measurement Attribute Code	X	ID 2/2
		Code used to express an attribute response when a numeric measurement		
		value cannot be determined		
		Refer to 003020 Data Element Dictionary for acceptable code values		
MEA09	752	Surface/Layer/Position Code	0	ID 2/2
		Code indicating the product surface, layer or position that is being		
		described		
		Refer to 003020 Data Element Dictionary for acceptable code values		



Segment: Carrier Details (Quantity and Weight)

Position: 110

Loop: Mandatory
Level: Detail
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.

Semantic Notes: Comments:

Ref.	Data			
Des.	Element	<u>Name</u>	<u>At</u>	tributes
TD101	103	Packaging Code	0	AN 5/5
		Code identifying the type of packaging; Part 1: Packaging Form, Part 2:		
		Packaging Material		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
TD102	80	Lading Quantity	X	N0 1/7
		Number of units (pieces) of the lading commodity		
TD103	23	Commodity Code Qualifier	0	ID 1/1
		Code identifying the commodity coding system used for Commodity Code		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
TD104	22	Commodity Code	X	AN 1/16
		Code describing a commodity or group of commodities		
TD105	79	Lading Description	0	AN 1/50
		Description of an item as required for rating and billing purposes		
TD106	187	Weight Qualifier	0	ID 1/2
		Code defining the type of weight		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
TD107	81	Weight	X	R 1/8
		Numeric value of weight		
	Des. TD101 TD102 TD103 TD104 TD105 TD106	TD101 103 TD102 80 TD103 23 TD104 22 TD105 79 TD106 187	TD101 103 Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material Refer to 003020 Data Element Dictionary for acceptable code values. TD102 80 Lading Quantity Number of units (pieces) of the lading commodity TD103 23 Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code Refer to 003020 Data Element Dictionary for acceptable code values. TD104 22 Commodity Code Code describing a commodity or group of commodities TD105 79 Lading Description Description of an item as required for rating and billing purposes TD106 187 Weight Qualifier Code defining the type of weight Refer to 003020 Data Element Dictionary for acceptable code values. TD107 81 Weight	TD101 103 Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material Refer to 003020 Data Element Dictionary for acceptable code values. TD102 80 Lading Quantity Number of units (pieces) of the lading commodity TD103 23 Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code Refer to 003020 Data Element Dictionary for acceptable code values. TD104 22 Commodity Code Refer to 003020 Data Element Dictionary for acceptable code values. TD105 79 Lading Description Description Description of an item as required for rating and billing purposes TD106 187 Weight Qualifier Ocde defining the type of weight Refer to 003020 Data Element Dictionary for acceptable code values.



X TD108 355 Unit or Basis for Measurement Code

O ID 2/2

Code identifying the basic unit of measurement.

Refer to 003020 Data Element Dictionary for acceptable code values



Segment: Carrier Details (Routing Sequence/Transit Time)

Position: 120
Loop: HL
Level: Detail
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 or TD505 is required.

2 If TD502 is present, then TD503 is required
3 If TD507 is present, then TD508 is required.
4 If TD510 is present, then TD511 is required.

Semantic Notes:

Comments:

1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502

Ref.	Data		
Des.	Element	Name	<u>Attributes</u>
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)	
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)	
TD503	67	Identification Code	X AN 2/17
		Code identifying a party.	
TD504	91	Transportation Method/Type Code	X ID 1/2
		Code specifying the method or type of transportation for the shipment	
		A Air	
		C Consolidation	
		M Motor (Common Carrier)	
		R Rail	



	TD505	387	Routing	X	AN 1/35
			Free-form description of the routing or requested routing for shipment, or		
			the originating carrier's identity		
	TD506	368	Shipment/Order Status Code	0	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 Refer to 003020 Data Element Dictionary for acceptable code value	ıes	
X	TD507	309	Location Qualifier	0	ID 1/2
			Code identifying type of location		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
X	TD508	310	Location Identifier	X	AN 1/25
			Code which identifies a specific location		
	TD509	731	Transit Direction Code	0	ID 2/2
			The point of origin and point of direction		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
	TD510	732	Transit Time Direction Qualifier	0	ID 2/2
			Code specifying the value of time used to measure the transit time		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
	TD511	733	Transit Time	X	R 1/4
			The numeric amount of transit time		



Segment: Carrier Details (Equipment)

Position: 130

Loop: HL Mandatory

Level: Detail
Usage: Mandatory

Max Use: 12

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

Syntax Notes: 1 If TD302 is present, then TD303 is required.

2 If TD304 is present, then both TD305 and TD306 are required

Semantic Notes: Comments:

Data Element Summary

	Ref.	Data			
	Des.	Element	<u>Name</u>		<u>tributes</u>
М	TD301	40	Equipment Description Code	М	ID 2/2
			Code identifying type of equipment used for shipment		
			TL Trailer (not otherwise specified)		
X	TD302	206	Equipment Initial	0	AN 1/4
			Prefix or alphabetic part of an equipment unit's identifying number		
	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)		
	TD304	187	Weight Qualifier	0	ID 1/2
			Code defining the type of weight		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
	TD305	81	Weight	X	R 1/8
			Numeric value of weight		
	TD306	355	Unit or Basis for Measurement Code	X	ID 2/2
			Code identifying the basic unit of measurement.		
			Refer to 003020 Data Element Dictionary for acceptable code values		
	TD307	102	Ownership Code	0	ID 1/1
			Code indicating the relationship of equipment to carrier.		

Refer to 003020 Data Element Dictionary for acceptable code values



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

Position: 140

Loop: HL Mandatory

Level: Detail Usage: Optional

Max Use: 5

To specify transportation special handling requirements, or hazardous materials

Purpose: 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: Comments:

Ref.	Data		
Des.	Element	Name	<u>Attributes</u>
TD401	152	Special Handling Code	X ID 2/3
		Code specifying special transportation handling instructions	
		Refer to 003020 Data Element Dictionary for acceptable code values.	
TD402	208	Hazardous Material Code Qualifier	X ID 1/1
		Code which qualifies the Hazardous Material Class Code (209)	
		Refer to 003020 Data Element Dictionary for acceptable code values.	
TD403	209	Hazardous Material Class Code	X AN 2/4
		Code specifying the kind of hazard for a material	
TD404	352	Description	X AN 1/80
		A free-form description to clarify the related data elements and their	
		content	



REF

Segment: Reference Numbers

Position: 150

Loop: HL Mandatory

Level: Detail

Usage: Mandatory

Max Use: 200

Purpose: To specify identifying numbers.

Syntax Notes: 1 At least one of REF02 or REF03 is required.

Semantic Notes: Comments:

	Ref.	Data			
	Des.	Element	<u>Name</u>	<u>At</u>	<u>tributes</u>
М	REF01	128	Reference Number Qualifier	М	ID 2/2
			Code qualifying the Reference Number.		
			BM Bill of Lading Number		
			PK Packing List Number		
	REF02	127	Reference Number	X	AN 1/30
			Reference number or identification number as defined for a particular		
			Transaction Set, or as specified by the Reference Number Qualifier.		
	REF03	352	Description	X	AN 1/80
			A free-form description to clarify the related data elements and their content		



N1

Segment: Name Position: 220

Loop: N1 Mandatory

Level: Detail
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.

	Ref.	Data			
	Des.	Element	nent Name		ributes
М	N101	98	Entity Identifier Code	М	ID 2/2
			Code identifying an organizational entity or a physical location.		
			SF Ship From		
			ST Ship To		
X	N102	93	Name	X	AN 1/35
			Free-form name		
	N103	66	Identification Code Qualifier	X	ID 1/2
			Code designating the system/method of code structure used for		
			Identification Code (67)		
			Dun and Bradstreet (Credit Reporting) (DUNS)		
	N104	67	Identification Code	X	AN 2/17
			Code identifying a party.		
			DUNS Number		



N2

Segment: Additional Name Information

Position: 230
Loop: N1
Level: Detail
Usage: Optional

Max Use: 2

Purpose:

To specify additional names or those longer than 35 characters in length

Syntax Notes: Semantic Notes: Comments:

	Ref.	Data		
	Des.	Element	<u>Name</u>	<u>Attributes</u>
M	N201	93	Name	M AN 1/35
			Free-form name	
	N202	93	Name	O AN 1/35
			Free-form name	



HL

Segment: Hierarchical Level

Position: 010

Loop: HL Optional

Level: Detail Usage: Optional

Max Use:

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

of data segments

Syntax Notes:

Semantic Notes:

Comments:

- 1 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.
- **5** HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: Order Level - Primary Metals ONLY

	Ref.	Data			
	Des.	Element	Name	At	ributes
M	HL01	628	Hierarchical ID Number	М	AN 1/12
			A unique number assigned by the sender to identify a particular data		
			segment in a hierarchical structure		
	HL02	734	Hierarchical Parent ID Number	0	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	М	ID 1/2
			Code defining the characteristic of a level in a hierarchical structure		
			O Order		



HL04 736 Hierarchical Child Code

O ID 1/1

Code indicating whether if there are hierarchical child data segments subordinate to the level being described.

Refer to 003020 Data Element Dictionary for acceptable code values



LIN

Segment: Item Identification

Position: 020

Loop: HL Optional

Level: Detail Usage: Mandatory

Max Use:

Purpose: To specify basic item identification data

Syntax Notes: 1 If LIN04 is present, then LIN05 is required.

2 If LIN06 is present, then LIN07 is required.3 If LIN08 is present, then LIN09 is required.

4 If LIN10 is present, then LIN11 is required.
5 If LIN12 is present, then LIN13 is required.
6 If LIN14 is present, then LIN15 is required.

7 If LIN16 is present, then LIN17 is required.

8 If LIN18 is present, then LIN19 is required.9 If LIN20 is present, then LIN21 is required.

10 If LIN22 is present, then LIN23 is required.

11 If LIN24 is present, then LIN25 is required.12 If LIN26 is present, then LIN27 is required.

13 If LIN28 is present, then LIN29 is required.

14 If LIN30 is present, then LIN31 is required.

Semantic Notes:

Comments:

- 1 See the Data Dictionary for a complete list of ID's.
- 2 LIN01 is the line item identification
- 3 LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

	Ref.	Data						
	Des.	Element	Name		At	tributes		
X	LIN01	350	Assigned Id	lentification	0	AN 1/11		
			Alphanumeri	c characters assigned for differentiation within a transaction se	t			
M	LIN02	235	Product/Ser	Product/Service ID Qualifier				
			Code identify	ring the type/source of the descriptive number used in				
			Product/Serv	Product/Service ID (234)				
			BP	Buyer's Part Number				



М	LIN03	234	Product/Service ID	M	AN 1/20
			Identifying number for a product or service		
	LIN04	235	Product/Service ID Qualifier	0	ID 2/2
			Code identifying the type/source of the descriptive number used in		
			Product/Service ID (234)		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
	LIN05	234	Product/Service ID	X	AN 1/30
			Identifying number for a product or service		
	LIN06	235	Product/Service ID Qualifier	0	ID 2/2
			Code identifying the type/source of the descriptive number used in		
			Product/Service ID (234)		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
	LIN07	234	Product/Service ID	X	AN 1/30
			Identifying number for a product or service		
	LIN08	235	Product/Service ID Qualifier	0	ID 2/2
			Code identifying the type/source of the descriptive number used in		
			Product/Service ID (234)		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
	LIN09	234	Product/Service ID	X	AN 1/30
			Identifying number for a product or service		
	LIN10	235	Product/Service ID Qualifier	0	ID 2/2
			Code identifying the type/source of the descriptive number used in		
			Product/Service ID (234)		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
	LIN11	234	Product/Service ID	X	AN 1/30
			Identifying number for a product or service		
	LIN12	235	Product/Service ID Qualifier	0	ID 2/2
			Code identifying the type/source of the descriptive number used in		
			Product/Service ID (234)		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
	LIN13	234	Product/Service ID	X	AN 1/30
			Identifying number for a product or service		
	LIN14	235	Product/Service ID Qualifier	0	ID 2/2
			Code identifying the type/source of the descriptive number used in		
			Product/Service ID (234)		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
	LIN15	234	Product/Service ID	X	AN 1/30
			Identifying number for a product or service		



LIN16	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
LIN17	234	Product/Service ID	X	AN 1/30
		Identifying number for a product or service		
LIN18	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
LIN19	234	Product/Service ID	X	AN 1/30
		Identifying number for a product or service		
LIN20	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
LIN21	234	Product/Service ID	X	AN 1/30
		Identifying number for a product or service		
LIN22	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
LIN23	234	Product/Service ID	X	AN 1/30
		Identifying number for a product or service		
LIN24	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
LIN25	234	Product/Service ID	X	AN 1/30
		Identifying number for a product or service		
LIN26	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
LIN27	234	Product/Service ID	X	AN 1/30
		Identifying number for a product or service		
LIN28	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		



LIN29	234	Product/Service ID	х	AN 1/30
		Identifying number for a product or service		
LIN30	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
LIN31	234	Product/Service ID	X	AN 1/30
		Identifying number for a product or service		



SN₁

Segment: Item Detail (Shipment)

Position: 030

Loop: HL Optional

Level: Detail
Usage: Mandatory

Max Use: 1

Purpose: To specify line-item detail relative to shipmentSyntax Notes: 1 If SN105 is present, then SN106 is required.

Semantic Notes:

Comments: 1 SN101 is the ship notice line item identification.

2 SN103 defines the unit of measurement for both SN102 and SN104

	Ref.	Data			
	Des.	Element	<u>Name</u>	<u>At</u>	tributes
X	SN101	350	Assigned Identification	0	AN 1/11
			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 identifying the basic unit of measurement.		
			24 Theoretical Pounds		
	SN104	646	Quantity Shipped to Date	0	R 1/9
			Number of units shipped to date		
X	SN105	330	Quantity Ordered	0	R 1/9
			Quantity ordered		
X	SN106	355	Unit or Basis for Measurement Code	X	ID 2/2
			Code identifying the basic unit of measurement.		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
	SN107	728	Returnable Container Load Make-Up Code	0	ID 1/2
			Code identifying the load make-up of the returnable containers in the shipment		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
	SN108	668	Line Item Status Code	0	ID 2/2
			Code specifying the action taken by the seller on a line item requested by the buyer		
			Refer to 003020 Data Element Dictionary for acceptable code values.		



PRF

Segment: Purchase Order Reference

Position: 050

Loop: HL Optional

Level: Detail
Usage: Mandatory

Max Use: 1

Purpose: To provide reference to a specific purchase order

Syntax Notes: Semantic Notes: Comments:

	Ref.	Data			
	Des.	Element	<u>Name</u>	Att	ributes
М	PRF01	324	Purchase Order Number	М	AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser		
X	PRF02	328	Release Number	0	AN 1/30
			Number identifying a release against a Purchase Order previously placed		
			by the parties involved in the transaction		
X	PRF03	327	Change Order Sequence Number	0	AN 1/8
			Number assigned by the orderer identifying a specific change or revision		
			to a previously transmitted transaction set		
X	PRF04	323	Purchase Order Date	0	DT 6/6
			Date assigned by the purchaser to Purchase Order		
X	PRF05	350	Assigned Identification	0	AN 1/11
			Alphanumeric characters assigned for differentiation within a transaction set		
X	PRF06	367	Contract Number	0	AN 1/30
			Contract number		



CLD

Segment: Load Detail

Position: 170

Loop: CLD Optional

Level: Detail
Usage: Optional

Max Use: 1

Purpose: To specify the number of material loads shipped

Syntax Notes: Semantic Notes:

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.

2 CLD05, "Unit of Measure Code," is used to dimension the value given in

CLD04, "Size."

	Ref.	Data				
	Des.	Element	ame		<u>Attributes</u>	
М	CLD01	622	Number of Loads	М	N0 1/5	
			Number of customer-defined loads shipped by the supplier			
M	CLD02	382	Number of Units Shipped	М	R 1/10	
			Numeric value of units shipped in manufacturer's shipping units for a line			
			item or transaction set			
	CLD03	103	Packaging Code	0	AN 5/5	
			Code identifying the type of packaging; Part 1: Packaging Form, Part 2:			
			Packaging Material			
			Refer to 003020 Data Element Dictionary for acceptable code values.			
	CLD04	357	Size	0	R 1/8	
			Size of supplier units in pack			
	CLD05	355	Unit or Basis for Measurement Code	0	ID 2/2	
			Code identifying the basic unit of measurement.			
			Refer to 003020 Data Element Dictionary for acceptable code values.			



HL

Segment: Hierarchical Level

Position: 010

Loop: HL Mandatory

Level: Detail Usage: Mandatory

Max Use: 1

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

data segments

Syntax Notes: Semantic Notes:

Comments:

- 1 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
- **5** HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment

Notes: Item Level

	Ref. Des.	Data Element	Namo	Λ+-	ributes
	Des.	Clement	<u> </u>	Au	noutes
M	HL01	628	Hierarchical ID Number	М	AN 1/12
			A unique number assigned by the sender to identify a particular data		
			segment in a hierarchical structure		
	HL02	734	Hierarchical Parent ID Number	0	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	М	ID 1/2
			Code defining the characteristic of a level in a hierarchical structure		
			l Item		
	HL04	736	Hierarchical Child Code	0	ID 1/1
			Code indicating whether if there are hierarchical child data segments		
			subordinate to the level being described.		
			Refer to 003020 Data Element Dictionary for acceptable code values.		



LIN

Segment: Item Identification

Position: 020

Loop: HL Optional

Level: Detail Usage: Mandatory

Max Use: 1

Purpose: To specify basic item identification dataSyntax Notes: 1 If LIN04 is present, then LIN05 is required.

2 If LIN06 is present, then LIN07 is required.

3 If LIN08 is present, then LIN09 is required.

4 If LIN10 is present, then LIN11 is required.

5 If LIN12 is present, then LIN13 is required.

6 If LIN14 is present, then LIN15 is required.

7 If LIN16 is present, then LIN17 is required.

8 If LIN18 is present, then LIN19 is required.

9 If LIN20 is present, then LIN21 is required.

10 If LIN22 is present, then LIN23 is required.

11 If LIN24 is present, then LIN25 is required.

12 If LIN26 is present, then LIN27 is required.

13 If LIN28 is present, then LIN29 is required.

ii Enveo is present, then Enves is required.

14 If LIN30 is present, then LIN31 is required.

Semantic Notes:

Comments:

- 1 See the Data Dictionary for a complete list of ID's.
- 2 LIN01 is the line item identification
- 3 LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

	Rei.	Data				
	Des.	Element	Name		<u>At</u>	<u>tributes</u>
X	LIN01	350	Assigne	ed Identification	0	AN 1/11
			Alphanu	meric characters assigned for differentiation within a transaction		
			set			
M	LIN02	235	Product	/Service ID Qualifier	M	ID 2/2
			Code ide	entifying the type/source of the descriptive number used in		
			Product/	Service ID (234)		
			BP	Buyer's Part Number		



М	LIN03	234	Product/Service ID	М	AN 1/20
			Identifying number for a product or service		
	LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in		ID 2/2
			Product/Service ID (234)		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
	LIN05	234	Product/Service ID	X	AN 1/30
			Identifying number for a product or service		
	LIN06	235	Product/Service ID Qualifier	0	ID 2/2
			Code identifying the type/source of the descriptive number used in		
			Product/Service ID (234)		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
	LIN07	234	Product/Service ID	X	AN 1/30
			Identifying number for a product or service		
	LIN08	235	Product/Service ID Qualifier	0	ID 2/2
			Code identifying the type/source of the descriptive number used in		
			Product/Service ID (234)		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
	LIN09	234	Product/Service ID	X	AN 1/30
			Identifying number for a product or service		
	LIN10	235	Product/Service ID Qualifier	0	ID 2/2
			Code identifying the type/source of the descriptive number used in		
			Product/Service ID (234)		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
	LIN11	234	Product/Service ID	Х	AN 1/30
			Identifying number for a product or service		
	LIN12	235	Product/Service ID Qualifier	0	ID 2/2
			Code identifying the type/source of the descriptive number used in		
			Product/Service ID (234)		
			Refer to 003020 Data Element Dictionary for acceptable code values.		411.4/00
	LIN13	234	Product/Service ID	Х	AN 1/30
	1.1514.4	225	Identifying number for a product or service	_	ID 0/0
	LIN14	235	Product/Service ID Qualifier	O	ID 2/2
			Code identifying the type/source of the descriptive number used in		
			Product/Service ID (234)		
	1 IN45	224	Refer to 003020 Data Element Dictionary for acceptable code values. Product/Service ID	v	A NI 4/20
	LIN15	234		X	AN 1/30
			Identifying number for a product or service		



LIN16	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
LIN17	234	Product/Service ID	Х	AN 1/30
		Identifying number for a product or service		
LIN18	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
LIN19	234	Product/Service ID	Х	AN 1/30
		Identifying number for a product or service		
LIN20	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
LIN21	234	Product/Service ID	Х	AN 1/30
		Identifying number for a product or service		
LIN22	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
LIN23	234	Product/Service ID	X	AN 1/30
		Identifying number for a product or service		
LIN24	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
LIN25	234	Product/Service ID	Х	AN 1/30
		Identifying number for a product or service		
LIN26	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
LIN27	234	Product/Service ID	Х	AN 1/30
		Identifying number for a product or service		
LIN28	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		



LIN29	234	Product/Service ID	х	AN 1/30
		Identifying number for a product or service		
LIN30	235	Product/Service ID Qualifier	0	ID 2/2
		Code identifying the type/source of the descriptive number used in		
		Product/Service ID (234)		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
LIN31	234	Product/Service ID	X	AN 1/30
		Identifying number for a product or service		



SN₁

Segment: Item Detail (Shipment)

Position: 030

Loop: HL Optional

Level: Detail Usage: Mandatory

Max Use: 1

Purpose: To specify line-item detail relative to shipmentSyntax Notes: 1 If SN105 is present, then SN106 is required.

Semantic Notes:

Comments: 1 SN101 is the ship notice line item identification.

2 SN103 defines the unit of measurement for both SN102 and SN104

Ref.	Data			
Des.	Element	<u>Name</u>	<u>At</u>	tributes
SN101	350	Assigned Identification	0	AN 1/11
		Alphanumeric characters assigned for differentiation within a transaction set		
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		
SN103	355	Unit or Basis for Measurement Code	M	ID 2/2
		Code identifying the basic unit of measurement.		
		CO for primary metals		
SN104	646	Quantity Shipped to Date	0	R 1/9
		Number of units shipped to date		
		CUM quantity shipped for this model year, including this ASN		
SN105	330	Quantity Ordered	0	R 1/9
		Quantity ordered		
SN106	355	Unit or Basis for Measurement Code	X	ID 2/2
		Code identifying the basic unit of measurement.		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
SN107	728	Returnable Container Load Make-Up Code	0	ID 1/2
		Code identifying the load make-up of the returnable containers in the shipment		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
SN108	668	Line Item Status Code	0	ID 2/2
		Code specifying the action taken by the seller on a line item requested by the buyer		
		Refer to 003020 Data Element Dictionary for acceptable code values.		
	Des. SN101 SN102 SN103 SN104 SN105 SN106	Des. Element SN101 350 SN102 382 SN103 355 SN104 646 SN105 330 SN106 355 SN107 728	SN101 SN101 SN102 SN103 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	Des. Element Name



PRF

Segment: Purchase Order Reference

Position: 050

Loop: HL Optional

Level: Detail
Usage: Mandatory

Max Use:

Purpose: To provide reference to a specific purchase order

Syntax Notes: Semantic Notes: Comments:

	Ref.	Data			
	Des.	Element	<u>Name</u>	At	tributes
M	PRF01	324	Purchase Order Number	М	AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser		
X	PRF02	328	Release Number	0	AN 1/30
			Number identifying a release against a Purchase Order previously placed		
			by the parties involved in the transaction		
X	PRF03	327	Change Order Sequence Number	0	AN 1/8
			Number assigned by the orderer identifying a specific change or revision		
			to a previously transmitted transaction set		
X	PRF04	323	Purchase Order Date	0	DT 6/6
			Date assigned by the purchaser to Purchase Order		
X	PRF05	350	Assigned Identification	0	AN 1/11
			Alphanumeric characters assigned for differentiation within a transaction set		
X	PRF06	367	Contract Number	0	AN 1/30
			Contract number		



MEA

Segment: Measurements

Position: 80
Loop: HL
Level: Detail
Usage: Mandatory

Max Use: 40

To specify physical measurements, including dimension tolerances, weights

Purpose: and counts.

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

2 If MEA03 is present, then MEA04 is required
3 If MEA05 is present, then MEA04 is required.
4 If MEA06 is present, then MEA04 is required.

5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

6 Only one of MEA08 or MEA03 may be present.

Semantic Notes:

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

Notes: Primary Metals ONLY

MEA*PD*WT*1231*01

Data Element Summary

Ref.	Data		
Des.	Element	<u>Name</u>	<u>Attributes</u>
MEA01	737	Measurement Reference ID Code	O ID 2/2
		Code specifying the application of physical measurement cited.	
		PD Physical Dimensions	
MEA02	738	Measurement Qualifier	O ID 1/3
		Code identifying the type of measurement.	
		G Gross Weight	
		N Actual Net Weight	
MEA03	739	Measurement Value	X R 1/10
		The value of the measurement	
MEA04	355	Unit or Basis for Measurement Code	X ID 2/2
		Code identifying the basic unit of measurement.	
		LB Pound, KG Kilogram	
MEA05	740	Range Minimum	X R 1/10
		The value specifying the minimum of the measurement range	

Χ



X	MEA06	741	Range Maximum	Х	R 1/10
			The value specifying the maximum of the measurement range		
X	MEA07	935	Measurement Significance Code	0	ID 2/2
			Code used to benchmark, qualify or further define a measurement value		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
X	MEA08	936	Measurement Attribute Code	X	ID 2/2
			Code used to express an attribute response when a numeric measurement		
			value cannot be determined		
			Refer to 003020 Data Element Dictionary for acceptable code values		
X	MEA09	752	Surface/Layer/Position Code	0	ID 2/2
			Code indicating the product surface, layer or position that is being		
			described		
			Refer to 003020 Data Element Dictionary for acceptable code values		



REF

Segment: Reference Numbers

Position: 150

Loop: HL Mandatory

Level: Detail

Usage: Mandatory

Max Use: 200

Purpose: To specify identifying numbers.

Syntax Notes: 1 At least one of REF02 or REF03 is required.

Semantic Notes:

Comments: Primary Metals ONLY

	Ref.	Data				
	Des.	Element	Name		<u>Att</u>	ributes
М	REF01	128	Reference	e Number Qualifier	М	ID 2/2
			Code qual	ifying the Reference Number.		
			HC	Heat Code		
			LS	Bar-Coded Serial Number		
	REF02	127	Reference	e Number	Х	AN 1/30
			Reference	number or identification number as defined for a particular		
			Transaction	on Set, or as specified by the Reference Number Qualifier.		
X	REF03	352	Description	on	Х	AN 1/80
			A free-form	n description to clarify the related data elements and their		
			content			



CLD

Segment: Load Detail

Position: 170

Loop: CLD Optional

Level: Detail Usage: Optional

Max Use: 1

Purpose: To specify the number of material loads shipped

Syntax Notes: Semantic Notes:

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.

2 CLD05, "Unit of Measure Code," is used to dimension the value given in

CLD04, "Size."

	Ref.	Data			
	Des.	Element	<u>Name</u>	<u>At</u>	tributes
М	CLD01	622	Number of Loads	М	N0 1/5
			Number of customer-defined loads shipped by the supplier		
М	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		
	CLD03	103	Packaging Code	0	AN 5/5
			Code identifying the type of packaging; Part 1: Packaging Form, Part 2:		
			Packaging Material		
			Refer to 003020 Data Element Dictionary for acceptable code values.		
X	CLD04	357	Size	0	R 1/8
			Size of supplier units in pack		
X	CLD05	355	Unit or Basis for Measurement Code	0	ID 2/2
			Code identifying the basic unit of measurement.		
			Refer to 003020 Data Element Dictionary for acceptable code values.		



REF

Segment: Reference Numbers

Position: 150

Loop: HL Mandatory

Level: Detail

Usage: Mandatory

Max Use: 200

Purpose: To specify identifying numbers.

Syntax Notes: 1 At least one of REF02 or REF03 is required.

Semantic Notes:

Comments: Primary Metals ONLY

	Ref.	Data				
	Des.	Element	<u>Name</u>		<u>At</u>	<u>tributes</u>
M	REF01	128	Reference Nu	ımber Qualifier	М	ID 2/2
			Code qualifyin	g the Reference Number.		
			LS	Bar-Coded Serial Number		
	REF02	127	Reference Nu	mber	X	AN 1/30
			Reference nur	mber or identification number as defined for a particular		
			Transaction S	et, or as specified by the Reference Number Qualifier.		
	REF03	352	Description		X	AN 1/80
			A free-form de	scription to clarify the related data elements and their		
			content			



CTT

Segment: Transaction Totals

Position: 010

Loop:

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 CTT03 is present, then CTT04 is required.

2 If CTT05 is present, then CTT06 is required

Semantic Notes:

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

completeness and correctness.

	Ref.	Data				
	Des.	Element	<u>Name</u>	Att	ributes	
M	CTT01	354	Number of Line Items	M	N0 1/6	
			Total number of line items in the transaction set			
	CTT02	347	Hash Total	0	R 1/10	
			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 hashed18 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.			
	CTT03	81	Weight	0	R 1/8	
			Numeric value of weight			
	CTT04	355	Unit or Basis for Measurement Code	X	ID 2/2	
			Code identifying the basic unit of measurement.			
			Refer to 003020 Data Element Dictionary for acceptable code values.			
	CTT05	183	Volume	0	R 1/8	
			Value of volumetric measure			



CTT06	355	Unit or Basis for Measurement Code			
		Code identifying the basic unit of measurement.			
		Refer to 003020 Data Element Dictionary for acceptable code values.			
CTT07	352	Description	O AN 1/80		
		A free-form description to clarify the related data elements and their			
		content			



SE

Segment: 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.

	Ref. <u>Des.</u>	Data Element	<u>Name</u>	Atı	tributes
M	SE01	96	Number of Included Segments	М	N0 1/6
			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 assigned by the originator for a transaction set.		



Example:

ISA*00* *00* *01*03350 *01*000290 *090226*0914*U*00200*00000160*0*P*\ GS*SH*03350*000290*090226*0914*160*X*003020 ST*856*30288802 BSN*00*30288802*090226*0914 DTM*011*090226*1630 HL*1**S MEA*PD*N*409*LB MEA*PD*G*409*LB TD1*PCS90*0 TD5*B*02*UNPC*LT TD3*TL**CH1J0H1755 REF*BM*30288802 REF*PK*30288802 N1*SF**01*03350 N1*ST**92*000290 HL*2*1*I LIN**BP*616108-167A SN1**600*EA*600 PRF*55025112 HL*3*1*I LIN**BP*3451R167ABAS SN1**30*EA*30 PRF*55025112 HL*4*1*I LIN**BP*1901348-167A SN1**150*EA*150 PRF*55025112 HL*5*1*I LIN**BP*1701087 SN1**60*EA*60 PRF*55025112 CTT*5*840 SE*31*30288802 GE*1*160 IEA*1*00000160



Document Revision

Version	Date	Description	Author
1.0	2009-02-10	Creation	Hans-Ulrich Berger
1.5	2009-09-18	Enhancement	Hans-Ulrich Berger
2.0	2016-Aug-10	Modified JCI or Johnson Controls references to be Adient. Removed JCI logo and added Adient logo.	Hemant Bhardwaj
2.1	2022-Mar-22	Modified Shipper number pattern	Gomichan Paul George
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