HLI-856 4010

Ship Notice / Manifest

EDI Specification

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856 (SHIP NOTICE/MANIFEST)

This Hayes Lemmerz ™ standard provides the format and establishes the data contents of the 856 (Ship Notice/Manifest Transaction Set). An 856 comprises a shipment's contents and other information relating to shipment, packaging, marking, and carrier data, as well as the packing configuration of the shipped goods. It enables the sender to describe a shipment's contents and configuration in varying levels of detail, while providing an ordered flexibility of data conveyed.

Segment ID	Name	Req. Des.	Max. Use	Loop Repeat
Data Segment Sequence for the Header Level				
ST	Transaction Set Header	M	1	
BSN	Beg Seg for Ship Notice	M	1	
DTM	Date/Time Reference	M	2	
Data Segment Sequence for the Shipment Level				
HL	Hierarchal Level	M	1	
MEA	Measurement	M	2	
TD1	Carrier Details (Quantity and Weight)	M	1	
TD5	Carrier Details (Routing Seq/Transit) Tm)	M	1	
TD3	Carrier Details (Equipment)	M	1	
REF	Reference Numbers	M	3	
N1	Name	M	2	N1/2
Data Segment Sequence for the Item Level				
HL	Hierarchal Level	M	1	HL/200000
LIN	Item Identification	M	1	
SN1	Item Detail (Shipment)	M	1	
PRF	Purchase Order Reference	M	1	
REF	Reference Numbers	C	1	
CLD	Load Detail	O	200	CLD/200
REF	Reference Numbers	C	200	CLD
Data Segment Sequence for the Trailing Segments				
CTT	Transaction Totals	M	1	
SE	Transaction Set Trailer	M	1	

Transaction Set Header

Segment:	ST - Transaction Set Header
Level:	Heading
Max. Use:	1
Purpose:	To indicate the start of the 856 transaction set and assign a transaction control number.
Comments:	This segment is required. The transaction set control number (data element ST02) in the header must match the transaction set control number in the trailer (data element SE02).
Example:	ST*856*0001

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
ST01	143	Transaction Set ID Code	M ID 3/3	856
ST02	329	Transaction Set Control Number	M AN 4/9	A unique number assigned to each transaction set within a functional group, starting with 0001 and incremented by 1 for each subsequent transaction set.

Beg Segment for Ship Notice

Segment:	BSN - Beginning Segment for Ship Notice
Level:	Heading
Max. Use:	1
Purpose:	To transmit identifying numbers, dates and other basic data relating to the transaction set.
Example:	BSN*00*123456*19990502*0810

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
BSN01	353	Transaction Set Purpose Code	M ID 2/2	00 = Original 05 = Replacement
BSN02	396	Shipment Ident.	M AN 2/30	ASN Number unique supplier assigned number that is not repeated within a one year period. HLI recommends use of the shipment ID number (SID).
BSN03	373	Date	M DT 8/8	Date of ASN Creation Format is YYYYMMDD
BSN04	337	Time	M TM 4/4	Time of ASN Creation Format is HHMM

Date/Time Reference

Segment:	DTM - Date/Time Reference
Level:	Heading
Max. Use:	2
Purpose:	To specify pertinent dates and times.
Example:	DTM*011*880601*1115

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
DTM01	374	Date/Time Qualifier	M ID 3/3	011 = Date and Time Shipment Leaves Supplier 017 = Estimated Date and Time of Arrival
DTM02	373	Date	M DT 8/8	If DTM01 is 011, this will be the shipment date. If DTM is 017, this will be the delivery date. Format is YYYYMMDD
DTM03	337	Time	C TM 4/4	If DTM01 = 011, this will be the shipment time. If DTM = 017, this will be the delivery time. Format is HHMM

Hierarchal Level

Segment:	HL - Hierarchal Level
Level:	Detail - first segment in each HL loop
Max. Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments.
Comments:	The HL segment is used to identify levels of detail information using hierarchical structure, such as relating line item data to shipment data. HLI will only use the shipment and item levels. Cancellation ASNs require only the shipment level.
Example:	HL*1**S (shipment level)

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
HL01	628	Hierarchical ID #	M AN 1/12	1 for the first HL segment, incremented by 1 in each subsequent HL segment within the transaction set.
HL02	734	Hierarchical Parent ID Number	M AN 1/12	Not Used
HL03	735	Hierarchical Level Code	M ID 1/2	S = Shipment
HL04	736	Hierarchical Child Code	N	

Measurement

Segment:	MEA - Measurements
Level:	Detail (shipment level)
Max. Use:	2
Purpose:	To specify physical measurements, including dimensions, tolerances, weights and counts.
Comments:	At shipment hierarchical level: - gross weight of shipment- tare weight of shipment
Example:	MEA*PD*G*1231*LBMEA*PD*T*323*LB

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
MEA01	737	Measurement Ref ID	M ID 2/2	PD for physical dimensions
MEA02	738	Measurement Qualifier	M ID 1/3	G = Gross Weight T = Tare Weight
MEA03	739	Measurement Value	M R 1/10	Weight
MEA04	355	Unit of Measure Code	M ID 2/2	Not Used
MEA05	740	Range Minimum	N	
MEA06	741	Range Maximum	N	
MEA07	935	Meas. Sign Code	N	
MEA08	936	Meas. Attr. Code	N	
MEA09	752	Surf/Layer Pos. Code		

Carrier Details (Quantity and Weight)

Segment:	TD1 - Carrier Details (Qty/Weight)
Level:	Detail
Max. Use:	1
Purpose:	To specify the transportation details relative to commodity, weight and quantity.
Example:	TD1*PLT71*2

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
TD101	103	Packaging Code	M ID 5/5	Any defined code is acceptable, i.e., PLT71 for pallet; BOX34 for cardboard box; SKD90 for skid.
TD102	080	Lading Quantity	M N0 1/7	Number of packages of the type specified in TD101.
TD103	023	Commodity Code Qualifier	N	
TD104	022	Commodity Code	N	
TD105	079	Lading Description	N	
TD106	187	Weight Qualifier	N	
TD107	091	Weight	N	
TD108	355	Unit of Measure Code	N	

Carrier Details (Routing Seq/Transit)

Segment:	TD5 - Carrier Detail (Routing Sequence/Transit Time)
Level:	Detail (shipment hierarchical level only)
Max. Use:	1
Purpose:	To specify the carrier, routing sequence, and provide transit time information.
Comments:	One TD5 is required for each shipment. Do not use more than one TD5.
Example:	TD5*B*92*CNTR*MTD5*B*92*CNTR*A***OR*GRR

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
TD501	133	Routing Sequence Code	M ID 1/2	B = Carrier is Origin/Delivery Carrier
TD502	066	Identification Code Qualifier	M ID 1/2	2 SCAC code 92 assigned by buyer
TD503	067	Identification Code	M AN 2/17	Carrier's SCAC code
TD504	091	Transport. Meth. Mode	M ID 1/2	M = Motor, A = Air, etc. Valid codes are listed below table
TD505	387	Routing	N	
TD506	368	Ship/Order Status Code	N	
TD507	309	Location Qualifier	C	OR for Origin required if TD504 = A or AE
TD508	310	Location Ident	C	Airport Code (e.g., GRR)
TD509	731	Transit Direct. Code	N	
TD510	732	Transit Time Dir. Qual.	N	
TD511	733	Transit Time	N	

Transportation Method Mode

The following are valid codes for segment TD5, element TD504: Transportation Method Mode:

- A - AIR
- AE - AIR EXPRESS
- C - CONSOLIDATION
- LT - LTL TRUCKLOAD
- M - MOTOR (COMMON CARRIER)

Carrier Details (Equipment)

Segment:	TD3 - Carrier Details (Equipment)
Level:	Detail (shipment hierarchal level only)
Max. Use:	1
Purpose:	To specify transportation details relating to the equipment used by the carrier.
Comments:	Only one TD3 segment is used per shipment to identify the conveyance number.
Example:	TD3*TL**5

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
TD301	040	Equipment Desc. Code	M ID 2/2	TL = Trailer AF = Air Freight
TD302	206	Equipment Initial	N	
TD303	207	Equipment Number	M AN 1/10	Conveyance Number (i.e., trailer number or air bill number)
TD304	187	Weight Qualifier	N	
TD305	081	Weight	N	
TD306	355	Unit of Measure Code	N	
TD307	102	Ownership Code	N	

Reference Number

Segment:	REF - Reference Numbers
Level:	Detail (shipment level)
Max. Use:	3
Purpose:	To specify identifying numbers.
Comments:	Used in the shipment level for: Air bill number - required if air shipment, Bill of Lading number - required if ground shipment.
Example:	REF*BM*123456 REF*PK*234567 REF*SI*234567 REF*DK*DK1

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
REF01	128	Reference NBR Qualifier	M ID 2/2	BM = Bill of Lading PK = Packing Slip* SI = Shipper Number* DK = Dock Code
REF02	127	Reference Number	M AN 1/8	
REF03	352	Description	N	

Note: *If not present in the shipment level of the 856, one of these (either PK or SI) must be present in the item level. Which of the two is used is optional, but only one of the two can be used throughout the transmittal.

Name

Segment:	N1 - Name
Level:	Detail (shipment hierarchical level)
Max. Use:	2
Purpose:	To identify a party by type of organization, name and code.
Comments:	The SF ship-from and ST ship-to segments are required.
Example:	N1*SF**01*123456789N1*ST**01*234567890

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
N101	098	Entity ID Code	M ID 2/2	ST = Shipto SF = Shipfrom
M102	093	Name	N	
N103	066	Identification Code Qualifier	M ID 1/2	01 = DUNS Number ZZ = User-assigned 92 = Buyer-assigned Number
N104	067	Identification Code	M AN 2/17	Identifying Number from N103

Hierarchal Level

Segment:	HL - Hierarchal Level
Level:	Detail - first segment in each HL loop (item level)
Max. Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments.
Comments:	The HL segment is used to identify levels of detail information using hierarchical structure, such as relating line item data to shipment data. HLI will only use the shipment and item levels. Cancellation ASNs require only the shipment level.
Example:	HL*2*1*I (item level)

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
HL01	628	Hierarchical ID #	M AN 1/12	1 for the first HL segment, incremented by 1 in each subsequent HL segment within the transaction set.
HL02	734	Hierarchical Parent ID Number	M AN 1/12	The ID number of the parent HL segment. Required for all HL segments at the item level.
HL03	735	Hierarchical Level Code	M ID 1/2	I = Item
HL04	736	Hierarchical Child Code	N	

Item Identification

Segment:	LIN - Item Identification
Level:	Detail (item hierarchical level)
Max. Use:	1
Purpose:	To specify basic item identification data.
Example:	LIN**BP*ABC-12345-123LIN**BP*0123456789

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
LIN01	350	Assigned Ident.	N	
LIN02	235	Product ID Qualifier	M ID 2/2	BP = Buyer's Part Number VP = Vendor's Part Number
LIN03	234	Product ID	M AN 1/20	Part numbers are up to 20 characters in length only

Item Detail (Shipment)

Segment:	SN1 - Item Detail (shipment)
Level:	Detail (item hierarchal level)
Max. Use:	1
Purpose:	To specify line item detail relative to shipment.
Comments:	Used to show the quantity being shipped, the unit of measure, and cumulative year to date shipments.
Example:	SN1**123*EA*1055

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
SN101	350	Assigned Ident.	N	
SN102	382	Number of Units Shipped	M R 1/10	
SN103	355	Unit of Measure Code	M ID 2/2	Must use the unit of measure received on the material release 830.
SN104	646	Quantity Shipped to Date	O R 1/9	Cumulative quantity shipped for this model year, including this ASN.
SN105	330	Quantity Ordered	N	
SN016	355	Unit of Measure Code	N	
SN107	728	Ret Container Load Makeup	N	
SN108	668	Line Item Status Code	N	

Purchase Order Reference

Segment:	PRF - Purchase Order Reference
Level:	Detail (item hierarchical level)
Max. Use:	1
Purpose:	To provide reference to a specific purchase order.
Example:	PRF*PO123***19990501

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
PRF01	324	Purchase Order Number	M AN 1/22	
PRF02	328	Release Number	N	
PRF03	327	Chg. Order Seq. No.	N	
PRF04	323	Purchase Order Date	O DT 8/8	Format is YYYYMMDD
PRF05	350	Assigned Ident.	N	
PRF06	367	Contract Number	N	

Reference Numbers

Segment:	REF - Reference Numbers
Level:	Detail (item hierarchical level)
Max. Use:	1
Purpose:	To specify identifying numbers.
Comments:	If serial numbers are to be sent, then the REF segments are required.
Example:	REF*PK*234567REF*SI*234567

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
REF01	128	Reference NBR Qualifier	M ID 2/2	PK = Packing Slip* SI = Shipper Number*
REF02	127	Reference Number	M AN 1/8	
REF03	352	Description	N	

Note: *If not present in the shipment level of the 856, one of these (either PK or SI) must be present in the item level. Which of the two is used is optional, but only one of the two can be used throughout the transmittal.

Load Detail

Segment:	CLD - Load Detail
Level:	Detail (item hierarchical level)
Max. Use:	200
Purpose:	To specify the number of material loads shipped.
Comments:	A CLD segment is required if serial numbers are to be sent.
Example:	CLD*123*12***EA

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
CLD01	622	No. Cust. Loads	M NO 1/5	Number of Loads Shipped
CLD02	382	No. Units Shipped	M R 1/10	Quantity Shipped per Load
CLD03	103	Packaging Code	N	
CLD04	357	Size	N	
CLD05	355	Unit of Meas. Code	O ID 2/2	Must be the unit of measure code received on the 830

Reference Numbers

Segment:	REF - Reference Numbers
Level:	Detail (item hierarchical level)
Max. Use:	200
Purpose:	To specify identifying numbers.
Comments:	If serial numbers are to be sent, then the REF segments are required.
Example:	REF*SE*12345678

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
REF01	128	Reference NBR Qualifier	M ID 2/2	SE = Serial or Lot Number
REF02	127	Reference Number	M AN 1/9	
REF03	352	Description	N	

Transaction Totals

Segment:	CTT - Transaction Totals
Level:	Summary
Max. Use:	1
Purpose:	To transmit a hash total for a specific element in the transaction set.
Comments:	This segment is intended to provide hash totals to validate transaction completeness and correctness.
Example:	CTT*2*100

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
CTT01	354	Number of Line Items	M N0 1/6	Total Number of HL Segments
CTT02	347	Hash Total	M R 1/10	Required hash total of quantity shipped from all SN102 segments.
CTT03	081	Weight	N	
CTT04	355	Unit of Measure Code	N	
CTT05	183	Volume	N	
CTT06	355	Unit of Measure Code	N	
CTT07	352	Description	N	

Transaction Set Trailer

Segment:	SE - Transaction Set Trailer
Level:	Summary
Max. Use:	1
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).
Comments:	SE*25*00001
Example:	

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
SE01	096	Number of Included Segments	M N0 1/6	
SE02	329	Transaction Set	M AN 4/9	Matches ST02

Character	Represented As
data segment terminating character (a hexadecimal 1C)	a period (.)
data element separating character	an asterisk (*)
data sub-element separating character	a backslash (\ )

The actual characters will be defined in the ISA segment. These characters are being used for display purposes only.

Any valid ASNI X.12 defined will be used for the data segment terminator (i.e., hex 1C).

Any valid ANSI X.12 defined , , or will be used for the data element and subelement separator (i.e., * and \).

Specification Glossary

Abbreviations in the Requirement Description column have the following definitions:

C	Conditional	The presence of this item is dependent on the presence or absence of other items.
F	Floating	This is used only for the NTE segment that may appear anywhere in the transaction set between the transaction set header and the transaction set trailer.
M	Mandatory	This data segment shall be included in the transaction set. Note that though a data segment may be mandatory in a loop of data segments, the loop itself is optional if the beginning segment of the loop is designated as optional.
N	Not Used	HLI does not use this segment at this time.
O	Optional	The presence of this data segment is at the option of the sending party.

Abbreviations in the Segment Type column have the following definitions:

C	Conditional	The presence of this item is dependent on the presence or absence of other items.
M	Mandatory	This data segment shall be included in the transaction set. Note that though a data segment may be mandatory in a loop of data segments, the loop itself is optional if the beginning segment of the loop is designated as optional.

Abbreviations in the Data Type column have the following definitions:

D	Data Element
C	Composite Data Element
S	Sub-Element

Abbreviations in the Format column have the following definitions:

A	Alphabetic Format
N	Numeric Format
X	Alphanumeric Format