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856

SHIP NOTICE/MANIFEST

Functional Group - SH

This X12 Transaction Set 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, 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.

Interchange Header:

Pos	Id	Segment Name	Req	Max Use	Repeat
010	ISA	Interchange Control Header	M	1	
020	GS	Functional Group Header	M	1	

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat
010	ST	Transaction Set Header	M	1	
020	BSN	Beginning Segment for Ship Notice	M	1	

LOOP ID – HL Shipment (S)			M		>1
110	TD1	Carrier Details (Quantity and Weight)	M	20	
120	TD5	Carrier Details (Routing Sequence)	M	12	
130	TD3	Carrier Details (Equipment)	O	12	
150	REF	Reference Information	O	>1	
200	DTM	Date/Time Reference	O	10	
210	FOB	F.O.B. Related Instructions	O	1	
LOOP ID - N1			M		200
220	N1	Party Identification	M	1	
240	N3	Party Location	O	2	
250	N4	Geographic Location	O	1	
LOOP ID – V1			O		>1
360	V1	Vessel Identification	O	>1	



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LOOP ID – HL Order (O)			M	>1
050	PRF	Purchase Order Reference	M	1
150	REF	Reference Information	M	>1
220	N1	Party Identification	M	200

LOOP ID – HL Pack (P)			M	>1
190	MAN	Marks and Number Information	M	>1

LOOP ID – HL Item (I)			M	>1
020	LIN	Item Identification	M	1
030	SN1	Item Detail [Shipment]	M	1
060	PO4	Item Physical Details	O	1
070	PID	Product/Item Description	M	200
150	REF	Reference Information	O	>1
200	DTM	Date/Time Reference	O	10

LOOP ID - N1			M	200
220	N1	Party Identification	M	1
250	N4	Geographic Location	M	1

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>
LOOP ID - CTT			M		1
010	CTT	Transaction Totals	M	1	
030	SE	Transaction Set Trailer	M	1	

Interchange Trailer:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>
010	GE	Functional Group Trailer	M	1	
020	IEA	Interchange Control Trailer	M	1	



Delimiters being used:

- Element: *
- Segment: ~
- Sub-Element/Component: >

Encoding being used:

- UTF-8



ISA - Interchange Control Header
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	'00'
ISA02	I02	Authorization Information	M	AN	10/10	10 Blanks
ISA03	I03	Security Information Qualifier	M	ID	2/2	'00'
ISA04	I04	Security Information	M	AN	10/10	10 Blanks
ISA05	I05	Sender ID Qualifier	M	ID	2/2	Sender ID Qualifier
ISA06	I06	Sender ID	M	AN	15/15	Sender ID
ISA07	I07	Receiver ID Qualifier	M	ID	2/2	Receiver ID Qualifier
ISA08	I08	Receiver ID	M	AN	15/15	Receiver ID
ISA09	I09	Date	M	DT	6/6	YYMMDD Format
ISA10	I10	Time	M	TM	4/4	HHMM Format
ISA11	I65	Control Standard	M		1/1	'^'
ISA12	I11	Control Version	M	ID	5/5	'00501'
ISA13	I12	Interchange Control Number	M	N0	9/9	Sequential number assigned by vendor
ISA14	I13	Acknowledgement Requested	M	ID	1/1	'0' - No '1' - Yes
ISA15	I14	Test Indicator	M	ID	1/1	'T' - Test 'P' - Production
ISA16	I15	Sub-Element	M		1/1	'>'

GS - Functional Group Header
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
GS01	479	Functional ID	M	ID	2/2	SH
GS02	142	Sender ID	M	AN	2/15	Sender ID
GS03	124	Receiver ID	M	AN	2/15	Receiver ID
GS04	373	Date	M	DT	8/8	CCYYMMDD Format
GS05	337	Time	M	TM	4/8	HHMM, HHMMSS, or HHMMSSDD format
GS06	28	Group Control Number	M	N0	1/9	Sequential number assigned by vendor
GS07	455	Agency Code	M	ID	1/1	'X'
GS08	480	Version	M	AN	1/12	'005010'



ST - Transaction Set Header
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
ST01	143	Transaction Set Identifier Code	M	ID	3/3	'856' – Ship Notice/Manifest
ST02	329	Transaction Set Control Number	M	AN	4/9	Assigned by Sender

BSN - Beginning Segment for Ship Notice
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
BSN01	353	Transaction Set Purpose Code	M	ID	2/2	'00' – Original
BSN02	396	Shipment Identification	M	AN	2/30	Shipment ID
BSN03	373	Date	M	DT	8/8	Creation Date
BSN04	337	Time	M	TM	4/8	Creation Time



HL - Hierarchical Level
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
HL01	628	Hierarchical ID Number	M	AN	1/12	1
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	
HL03	735	Hierarchical Level Code	M	ID	1/2	'S' - Shipment

TD1 - Carrier Details (Quantity and Weight) [Shipment]
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
TD101	103	Packaging Code	M	AN	3/5	'PLT94' – Pallet 'CTN25' – Carton
TD102	80	Lading Quantity	M	N0	1/7	Total Qty Shipped based on TD101 value
TD106	187	Weight Qualifier	M	ID	1/2	'G' – Gross Weight
TD107	81	Weight	M	R	1/10	Shipment Gross Weight
TD108	355	Unit or Basis for Measurement Code	M	ID	2/2	'LB' - Pound
TD109	183	Volume	O	R	1/8	
TD110	355	Unit or Basis for Measurement Code	O	ID	2/2	'CF' – Cubic Feet

*If TD109 or TD110 is sent, the other is required

TD5 - Carrier Details (Routing Sequence) [Shipment]
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
TD502	66	Identification Code Qualifier	C	ID	1/2	'2' – Standard Carrier Alpha Code
TD503	67	Identification Code	C	AN	2/80	SCAC
TD505	387	Routing	C	AN	1/35	

*Either TD503 or TD505 is required. If TD503 sent, then TD502 is required



TD3 - Carrier Details (Equipment) [Shipment]
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
TD302	206	Equipment Initial	O	AN	1/4	
TD303	207	Equipment Number	O	AN	1/15	
TD309	225	Seal Number	O	AN	2/15	

REF - Reference Information [Shipment]
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
REF01	128	Reference Identification Qualifier	M	ID	2/3	'2I' – Tracking Number 'BM' – Bill of Lading Number 'CN' – Carrier's Reference Number
REF02	127	Reference Identification	M	AN	1/30	
*One of REF*2I, REF*BM, or REF*CN is required						

DTM - Date/Time Reference [Shipment]
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
DTM01	374	Date/Time Qualifier	M	ID	3/3	'011' – Shipped (Mandatory) '017' – Expected Delivery (Mandatory)
DTM02	373	Date	M	DT	8/8	
DTM03	337	Time	O	TM	4/8	
DTM04	623	Time Code	O	ID	2/2	Any valid X12 code can be used
DTM05	1250	Date Time Period Format Qualifier	O	ID	2/3	Any valid X12 code can be used
DTM06	1251	Date Time Period	O	AN	1/35	



FOB - F.O.B. Related Instructions [Shipment]
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
FOB01	146	Shipment Method of Payment	M	ID	2/2	'CC' – Collect 'DF' – Defined by Buyer and Seller 'PP' – Prepaid (by Seller)
FOB02	309	Location Qualifier	O	ID	1/2	'DE' – Destination (Shipping) 'OR' – Origin (Shipping Point)
FOB03	352	Description	O	AN	1/80	
*If FOB02 or FOB03 is sent, both are required.						

N1 - Name [Shipment]
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
N101	98	Entity Identifier Code	M	ID	2/3	'ST' – Ship To (Mandatory) 'SF' – Ship From (Optional)
N102	93	Name	O	AN	1/60	Name
N103	66	Identification Code Qualifier	M	ID	1/2	'92' – Assigned by Buyer or Buyer's Agent
N104	67	Identification Code	M	AN	2/80	

N3 - Party Location [Shipment/Loop N1]
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
N301	166	Address Information	M	AN	1/55	Address 1
N302	166	Address Information	O	AN	1/55	Address 2



N4 - Geographic Location [Shipment/Loop N1]
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
N401	19	City Name	M	ID	2/30	City
N402	156	State or Province Code	O	ID	2/2	State or Province Code
N403	116	Postal Code	M	ID	3/15	Zip Code
N404	26	Country Code	O	ID	2/3	Country

V1 - Vessel Identification [Shipment]
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
V101	182	Vessel Name	O	AN	2/28	



HL - Hierarchical Level
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
HL01	628	Hierarchical ID Number	M	AN	1/12	
HL02	734	Hierarchical Parent ID Number	M	AN	1/12	
HL03	735	Hierarchical Level Code	M	ID	1/2	'O' - Order

PRF - Purchase Order Reference [Order]
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Values/Comments
PRF01	324	Purchase Order Number	M	AN	1/22	PO #
PRF04	373	Date	M	DT	8/8	PO Date

REF - Reference Information [Order]
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
REF01	128	Reference Identification Qualifier	M	ID	2/3	'IA' – Internal Vendor Number (Mandatory)
REF02	127	Reference Identification	M	AN	1/30	



N1 - Name [Order]
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
N101	98	Entity Identifier Code	M	ID	2/3	'Z7' – Mark For Party
N103	66	Identification Code Qualifier	M	ID	1/2	'92' – Assigned by Buyer or Buyer's Agent
N104	67	Identification Code	M	AN	2/80	



HL - Hierarchical Level
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
HL01	628	Hierarchical ID Number	M	AN	1/12	
HL02	734	Hierarchical Parent ID Number	M	AN	1/12	
HL03	735	Hierarchical Level Code	M	ID	1/ 2	'P' - Pack

MAN - Marks and Numbers Information [Pack]
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Values/Comments
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	'GM' – SSCC-18
MAN02	87	Marks and Numbers	M	AN	1/48	UCC-128 #



HL - Hierarchical Level
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
HL01	628	Hierarchical ID Number	M	AN	1/12	
HL02	734	Hierarchical Parent ID Number	M	AN	1/12	
HL03	735	Hierarchical Level Code	M	ID	1/2	'I' - Item

LIN - Item Identification [Item]
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Values/Comments
LIN01	350	Assigned Identification	M	AN	1/20	Line # *Must match PO101 sent on 850
LIN02	235	Product/Service ID Qualifier	C	ID	2/2	'UP' - UPC or 'VN' - Vendor Item Number
LIN03	234	Product/Service ID	C	AN	1/48	UPC # or Vendor Item #
LIN04	235	Product/Service ID Qualifier	C	ID	2/2	'UP' - UPC or 'VN' - Vendor Item Number
LIN05	234	Product/Service ID	C	AN	1/48	UPC # or Vendor Item #
LIN06	235	Product/Service ID Qualifier	O	ID	2/2	'SK' - Stock Keeping Unit (SKU)
LIN07	234	Product/Service ID	O	AN	1/48	ABC Store's SKU #
*At least one of LIN02/03 or LIN04/05 is required						

SN1 - Item Detail [Item]
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Values/Comments
SN102	382	Number of Units Shipped	M	R	1/10	Quantity Shipped
SN103	355	Unit or Basis for Measurement Code	M	ID	2/2	'CA' - Case 'EA' - Each



PO4 - Item Physical Details [Item]
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Values/Comments
PO401	356	Pack	O	N0	1/6	
PO402	357	Size	O	R	1/8	
PO403	355	Unit or Basis for Measurement Code	O	ID	2/2	'EA' - Each

PID - Product/Item Description [Item]
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Values/Comments
PID01	349	Item Description type	M	ID	1/1	'F' - Free-form
PID02	750	Product/Process Characteristic Code	M	ID	2/3	'08' - Buyer Product Description (Mandatory) '91' - Buyer's Item Size Description (Optional)
PID05	352	Description	M	AN	1/80	Item Description

REF - Reference Information [Item]
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
REF01	128	Reference Identification Qualifier	M	ID	2/3	'LT' - Lot Number 'SE' - Serial Number
REF02	127	Reference Identification	M	AN	1/30	



DTM - Date/Reference Item]
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
DTM01	374	Date/Time Qualifier	M	ID	3/3	'036' – Expiration
DTM02	373	Date	M	DT	8/8	

N1 - Name [Item]
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
N101	98	Entity Identifier Code	M	ID	2/3	'CT' – Country of Origin
N102	93	Name	M	AN	1/60	Name

N4 - Geographic Location [Item/Loop N1]
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
N404	26	Country Code	M	ID	2/3	Country



CTT - Transaction Totals [Summary]
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
CTT01	354	Number of Line Items	M	N0	1/6	Total number of HL segments

SE - Transaction Set Trailer
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
SE01	96	Number of Included Segments	M	N0	1/10	Number of included segments contained in the 856. From and Including ST and SE.
SE02	329	Transaction Set Control Number	M	AN	4/9	Same as ST02

GE - Functional Group Trailer
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
GE01	97	Number of Transaction Sets Included	M	ID	1/6	Number of Transaction Sets Included in the Functional Group
GE02	28	Group Control Number	M	AN	1/9	Sequential Number Assigned by Vendor

IEA - Interchange Control Trailer
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
IEA01	116	Number of Functional Groups Included	M	N0	1/5	Number of Functional Groups Included in transmission
IEA02	112	Interchange Control Number	M	N0	9/9	Sequential Number Assigned by Vendor



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SEGMENT USAGE EXAMPLES

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ISA*00*      *00*      *ZZ*SENDER      *12*RECEIVER      *240408*0814*^*00501*000000001*0*P*>~
GS*SH*SENDER*RECEIVER*20240408*0814*1*X*005010~
ST*856*0001~
BSN*00*ASN123*20240408*0814~
HL*1**S~
TD1*CTN25*2****G*100*LB~
TD5**2*SCAC**Carrier Name~
TD3**EQ*EQUIP1*****SEAL1~
REF*BM*1x234569870~
DTM*011*20240408~
DTM*017*20240410~
FOB*CC*OR*FOB Description~
N1*ST*ST Name*92*ST Code~
N3*ST Address 1*ST Address 2~
N4*ST City*PA*16066*US~
N1*SF Name*92*SF Code~
N3*SF Address 1*SF Address 2~
N4*SF City*PA*16066*US~
V1**VESSEL1~
HL*2*1*O~
PRF*PO100***20240404~
REF*IA*VENDNUM~
N1*Z7**92*Z7 Code~
HL*3*2*P~
MAN*GM*00123456000000000001~
HL*4*3*I~
LIN*1*VN*111222*UP*123456789012*SK*333444~
SN1**1*CA~
PO4*20*1*EA~
PID*F*08***Item Description 1~
PID*F*91***Size 1~
REF*LT*LOT1~
DTM*036*20240430~
N1*CT*United States~
N4****US~
HL*5*2*P~
MAN*GM*00123456000000000002~
HL*6*5*I~
LIN*2*VN*555666*UP*345678901234*SK*777888~
SN1**1*CA~
PO4*10*2*EA~
PID*F*08***Item Description 2~
PID*F*74***Size 2~
REF*LT*LOT2~
DTM*036*20240501~
N1*CT*China~
N4****CN~
CTT*5~
SE*47*0001~
GE*1*1~
IEA*1*000000001~

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