



# 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:

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

### Heading:

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

<b>LOOP ID – HL Shipment (S)</b>			<b>M</b>	<b>&gt;1</b>
110	TD1	Carrier Details (Quantity and Weight)	M	20
120	TD5	Carrier Details (Routing Sequence)	M	12
150	REF	Reference Information	O	>1
200	DTM	Date/Time Reference	M	10
210	FOB	F.O.B. Related Instructions	O	1
<b>LOOP ID - N1</b>			<b>M</b>	<b>200</b>
220	N1	Party Identification	M	1
240	N3	Party Location	O	2
250	N4	Geographic Location	O	1
<b>LOOP ID – HL Order (O)</b>			<b>M</b>	<b>&gt;1</b>
050	PRF	Purchase Order Reference	M	1
150	REF	Reference Information	M	>1



LOOP ID – HL Tare (T)			O	>1
060	PO4	Item Physical Details	O	1
190	MAN	Marks and Number Information	M	>1

  

LOOP ID – HL Pack (P)			M	>1
060	PO4	Item Physical Details	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

**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



GLOBAL  
MERCHANDISE

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**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	'U'
ISA12	I11	Control Version	M	ID	5/5	'00401'
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	'004010'



**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	'PLT' – Pallet 'CTN' – 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

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

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
TD502	66	Identification Code Qualifier	M	ID	1/2	'2' – Standard Carrier Alpha Code
TD503	67	Identification Code	M	AN	2/80	SCAC
TD504	91	Transportation Method/Type Code	M	ID	1/2	'A' – Air 'M' – Motor (Common Carrier) 'O' – Containerized Ocean 'P' – Private Carrier 'R' – Rail LT' – Less Than Trailer Load (LTL)
TD505	387	Routing	M	AN	1/35	



**REF - Reference Information [Shipment]**  
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
REF01	128	Reference Identification Qualifier	M	ID	2/3	'BM' – Bill of Lading Number
REF02	127	Reference Identification	M	AN	1/30	Bill of Lading #
*BOL # is conditionally mandatory for all applicable shipments						
* Max length is 14 characters						

**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 (Optional)
DTM02	373	Date	M	DT	8/8	

**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	Any valid X12 code
FOB04	334	Transportation Terms Qualifier Code	O	ID	2/2	'01' - Incoterms
FOB05	335	Transportation Terms Code	O	ID	3/3	Any valid X12 code
*Should match what was sent on 850						



**N1 - Name [Shipment]**  
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
N101	98	Entity Identifier Code	M	ID	2/3	'VN' – Vendor (Mandatory) 'ST' – Ship To (Mandatory)
N102	93	Name	M	AN	1/60	Name
N103	66	Identification Code Qualifier	O	ID	1/2	'92' – Assigned by Buyer or Buyer's Agent
N104	67	Identification Code	O	AN	2/80	
*N102 optional for N1*VN *N103/04 mandatory for N1*VN *N103/04 only needed for N1*ST when not dropship and should match what was sent on 850						

**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
*Only used for N1*ST						

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

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
N401	19	City Name	O	ID	2/30	City
N402	156	State or Province Code	O	ID	2/2	State or Province Code
N403	116	Postal Code	O	ID	3/15	Zip Code
N404	26	Country Code	O	ID	2/3	Country
*Only used for N1*ST						



**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	O	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	'19' – Legends Company/Division (Mandatory) 'CO' – Customer Order Number (Optional)
REF02	127	Reference Identification	M	AN	1/30	

\*When REF01 = 19, REF02 must match what was sent on 850  
\*REF\*CO conditionally mandatory if sent on 850



**HL - Hierarchical Level**  
Optional 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	'T' - Tare
*This HL loop is optional, but if sent, must send MAN segment						

**PO4 - Item Physical Details [Tare]**  
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
PO406	384	Gross Weight per Pack	M	R	1/9	Pallet Weight
PO407	355	Unit or Basis for Measurement Code	M	ID	2/2	'LB' – Pound

**MAN - Marks and Numbers Information [Tare]**  
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	Pallet 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	'P' - Pack

**PO4 - Item Physical Details [Pack]**  
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
PO406	384	Gross Weight per Pack	M	R	1/9	Pack Weight
PO407	355	Unit or Basis for Measurement Code	M	ID	2/2	'LB' – Pound

**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 #
MAN04	88	Marks and Numbers Qualifier	C	ID	1/2	'CP' – Small Parcel Carton Tracking #
MAN05	87	Marks and Numbers	C	AN	1/48	Small Parcel Carton Tracking #
*MAN04/05 mandatory for small parcel shipments						



**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	M	ID	2/2	'PI' - Buyer Item Number
LIN03	234	Product/Service ID	M	AN	1/48	Buyer's Item #
LIN04	235	Product/Service ID Qualifier	O	ID	2/2	'VN' - Vendor Item Number
LIN05	234	Product/Service ID	O	AN	1/48	Vendor Item #
LIN06	235	Product/Service ID Qualifier	O	ID	2/2	'CH' - Country of Origin
LIN07	234	Product/Service ID	O	AN	1/48	Country of Origin

**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	'EA' - Each



**CTT - Transaction Totals [Summary]**  
Mandatory 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	I16	Number of Functional Groups Included	M	N0	1/5	Number of Functional Groups Included in transmission
IEA02	I12	Interchange Control Number	M	N0	9/9	Sequential Number Assigned by Vendor



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## SEGMENT USAGE EXAMPLES

### 1. SOTPI

```
ISA*00*      *00*      *ZZ*SENDER      *12*RECEIVER      *230517*0814*U*00401*000000001*0*P*>~
GS*SH*SENDER*RECEIVER*20230517*0814*1*X*004010~
ST*856*0001~
BSN*00*ASN123*20230517*0814~
HL*1**S~
TD1*PLT*1****G*100*LB~
TD5**2*SCAC*A*Carrier Name~
REF*BM*1x234569870~
DTM*011*20230518~
DTM*017*20230519~
FOB*DF**01*CAF~
N1*VN*VN Name*92*VN Code~
N1*ST*ST Name*92*ST Code~
N3*ST Address 1*ST Address 2~
N4*ST City*PA*16066*US~
HL*2*1*O~
PRF*PO100***20230516~
REF*19*DIV001~
REF*CO*CUSTORDER123~
HL*3*2*T~
PO4*****100*LB~
MAN*GM*00345678901324567890~
HL*4*3*P~
PO4*****10*LB~
MAN*GM*00123456000000000001~
HL*5*4*I~
LIN*1*PI*111222*VN*333444*CH*USA~
SN1**25*EA~
HL*6*4*I~
LIN*2*PI*555666*VN*777888*CH*ITALY~
SN1**10*EA~
CTT*6~
SE*31*0001~
GE*1*1~
IEA*1*000000001~
```



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## 2. SOPI

ISA\*00\* \*00\* \*ZZ\*SENDER \*12\*RECEIVER \*230517\*0814\*U\*00401\*000000001\*0\*P\*>~  
GS\*SH\*SENDER\*RECEIVER\*20230517\*0814\*1\*X\*004010~  
ST\*856\*0001~  
BSN\*00\*ASN123\*20230517\*0814~  
HL\*1\*\*S~  
TD1\*CTN\*1\*\*\*G\*100\*LB~  
TD5\*\*2\*SCAC\*A\*Carrier Name~  
REF\*BM\*1x234569870~  
DTM\*011\*20230518~  
DTM\*017\*20230519~  
FOB\*DF\*\*\*01\*CAF~  
N1\*VN\*VN Name\*92\*VN Code~  
N1\*ST\*ST Name\*92\*ST Code~  
N3\*ST Address 1\*ST Address 2~  
N4\*ST City\*PA\*16066\*US~  
HL\*2\*1\*O~  
PRF\*PO100\*\*\*20230516~  
REF\*19\*DIV001~  
REF\*CO\*CUSTORDER123~  
HL\*3\*2\*P~  
PO4\*\*\*\*\*10\*LB~  
MAN\*GM\*001234560000000000001\*\*CP\*1234567890~  
HL\*4\*3\*I~  
LIN\*1\*PI\*111222\*VN\*333444\*CH\*USA~  
SN1\*\*25\*EA~  
HL\*5\*3\*I~  
LIN\*2\*PI\*555666\*VN\*777888\*CH\*ITALY~  
SN1\*\*10\*EA~  
CTT\*5~  
SE\*28\*0001~  
GE\*1\*1~  
IEA\*1\*000000001~