



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>LP Req</u>	<u>Max Use</u>	<u>Repeat</u>
010	ISA	Interchange Control Header	M	M	1	
020	GS	Functional Group Header	M	M	1	

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>LP Req</u>	<u>Max Use</u>	<u>Repeat</u>
020	BSN	Beginning Segment for Ship Notice	M	M	1	

LOOP ID – HL Shipment (S)						>1
110	TD1	Carrier Details (Quantity and Weight)	M	M	20	
120	TD5	Carrier Details (Routing Sequence/Transit Time)	M	M	12	
150	REF	Reference Information	M	M	200	
151	PER	Administrative Communications Contact	M	M	3	
040	DTM	Date/Time Reference	M	M	10	
LOOP ID - N1						200
310	N1	Party Identification	M	M	1	
330	N3	Party Location	M	M	2	
340	N4	Geographic Location	M	M	>1	
LOOP ID – HL Order (O)						>1
050	PRF	Purchase Order Reference	M	M	1	



LOOP ID – HL Pack (P)						>1
060	PO4	Item Physical Details	O	O	1	
190	MAN	Marks and Numbers Information	M	M	>1	

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

Summary:

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

Interchange Trailer:

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

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'
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	HHMMSSDD Format
GS06	28	Group Control Number	M	N0	1/9	Sequential number assigned
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	
BSN03	373	Date	M	DT	8/8	Creation Date
BSN04	337	Time	M	TM	4/8	Creation Time
BSN05	1005	ASN Type	M	ID	4/4	0001 – Pick and Pack

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	ID	3/5	'CTN' – Carton 'BOX' – Box 'LBS' – Pounds 'EAC' - Each
TD102	80	Lading Quantity	M	N0	1/7	# of Cartons
TD107	81	Weight	M	R	1/10	Shipment Weight
TD108	355	Unit or Basis for Measurement Code	M	ID	2/2	'LB' – Pound

TD5 - Carrier Details (Routing Sequence/Transit Time) (Shipment)
Mandatory segment

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



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	'IA' – Vendor Number (Mandatory) '2I' – Tracking Number (Conditional) 'BM' – Bill of Lading (Conditional) 'CN' – Carrier Pro (Conditional) 'L1' – Note (Optional) 'VR' – Vendor Code (Mandatory) *Either 2I, BM or CN is required
REF02	127	Reference Identification	M	AN	1/80	As described in REF01

PER - Administrative Communications Contact (Shipment)
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
PER01	366	Contact Function Code	M	ID	2/2	'C1' – Carrier Contact
PER02	93	Name	M	ID	1/60	
PER03	365	Communication Number Qualifier	O	ID	2/2	'TE' – Telephone
PER04	364	Communication Number	O	AN	1/256	

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	'010' – Ship Date (Mandatory) '017' – Estimated Delivery (Mandatory) '001' – Cancel Date (Mandatory)
DTM02	373	Date	M	DT	8/8	As described in DTM01



N1 - Name (Shipment)
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
N101	98	Entity Identifier Code	M	ID	2/3	'SF' – Ship From (Optional) 'SU' – Supplier (Optional) 'ST' – Ship To (Mandatory)
N102	93	Name	M	AN	1/60	Name
N103	66	Identification Code Qualifier	M	ID	1/2	'ZZ' –Mutually Defined *Only used for N1*ST
N104	67	Identification Code	M	AN	2/80	Code *Only used for N1*ST

N3 - Party Location (Shipment)
Mandatory 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)
Mandatory 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	M	ID	2/2	State or Province Code
N403	116	Postal Code	M	ID	3/15	Zip Code
N404	26	Country Code	M	ID	2/3	Country Code



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 Number (Order)
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Values/Comments
PRF01	324	Purchase Order Number	M	AN	1/22	

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) Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
PO406	384	Gross Weight Per Pack	O	R	1/9	Pack Weight
PO407	355	Unit or Basis for Measurement Code	O	ID	2/2	'LB' - Pound
PO410	82	Length	O	R	1/8	
PO411	189	Width	O	R	1/8	
PO412	65	Height	O	R	1/8	
PO413	355	Unit or Basis for Measurement Code	O	ID	2/2	Any valid X12 value

MAN - Marks and Numbers Information (Pack) Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	'GM' – EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier
MAN02	87	Marks and Numbers	M	AN	1/48	UCC-128 # (20 digits)



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 PO
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	'IN' - Customer Item Number
LIN03	234	Product/Service ID	M	AN	1/48	Customer Item #
LIN04	235	Product/Service ID Qualifier	M	ID	2/2	'VN' - Supplier's Item Number
LIN05	234	Product/Service ID	M	AN	1/48	Supplier's Item #
LIN06	235	Product/Service ID Qualifier	M	ID	2/2	'UP' - UPC Number
LIN07	234	Product/Service ID	M	AN	1/48	UPC #
LIN08	235	Product/Service ID Qualifier	O	ID	2/2	'LT' - Lot Number
LIN09	234	Product/Service ID	O	AN	1/48	Lot Number

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 'LB' - Pound
SN105	380	Quantity	M	R	1/15	Quantity Ordered
SN106	355	Unit or Basis for Measurement Code	M	ID	2/2	'EA' - Each 'LB' - Pound



PO4 - Item Physical Details (Item)
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Values/Comments
PO401	356	Pack	M	N0	1/6	Pack Size
PO406	384	Gross Weight per Pack	M	R	1/9	Item Weight
PO407	355	Unit or Basis for Measurement Code	M	ID	2/2	'LB' – Pound

PID - Product/Item Description (Item)
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
PID01	349	Item Description Type	M	ID	1/1	'F' – Free form
PID05	352	Description	M	AN	1/120	

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	'2I' – Tracking Number
REF02	127	Reference Identification	M	AN	1/80	

DTM - Date/Time 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 Date
DTM02	373	Date	M	DT	8/8	Lot Expiration Date



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 ASN. 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



SEGMENT USAGE EXAMPLES

Example only contains mandatory fields from above

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ISA*00*      *00*      *XX*XXXXXXXXXXXX *XX*XXXXXXXXXXXX *180130*0814*U*00401*000000006*0*P*>~
GS*SH*XXXXXXXXXX*XXXXXXXXXX*20180130*0814*6*X*004010~
ST*856*1107101~
BSN*00*2628*20180130*0814*0001~
HL*1**S~
TD1*CTN*1*****10*LB~
TD5**2*UPSG**UPS Ground~
REF*IA*Vendor ID~
REF*2I*Tracking Num~
REF*VR*Vendor Code~
PER*C1*Carrier Name~
DTM*010*20180130~
DTM*017*20180202~
DTM*001*20180204~
N1*ST*Ship To Name*ZZ*7894~
N3*Ship To Address 1~
N4*City*PA*16066*USA~
HL*2*1*O~
PRF*100001~
HL*3*2*P~
MAN*GM*00000456000000000012~
HL*4*3*I~
LIN*1*IN*111222*VN*333444*UP*123456789012~
SN1**2*EA**2*EA~
PO4*1*****10*LB~
PID*F****ITEM DESCRIPTION 1~
HL*5*3*I~
LIN*1*IN*555666*VN*777888*UP*987654321012~
SN1**10*EA**10*EA~
PO4*1*****10*LB ~
PID*F****ITEM DESCRIPTION 2~
CTT*5~
SE*31*1107144~
GE*1*6~
IEA*1*000000006~
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