SPECTRA PREMIUM

**X12 Implementation Guidelines
For**

**Inbound Advance Shipment Notice (856)
004010**

Introduction :

This Standard 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, 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.

Usage	Pos. No.	Seg. ID	Name	Max. Use
Mandatory	10	ST	Transaction Set Header	1
Mandatory	20	BSN	Beginning Segment for Ship Notice	1
Optional	30	DTM	Date/Time Reference	>1

Usage	Pos. No.	Seg. ID	Name	Max. Use
LOOP ID - HL				
Optional	40	HL	Hierarchical Level	
Optional	50	TD1	Carrier Details (Quantity and Weight)	>1
Optional	60	TD5	Carrier Details (Routing Sequence/Transit Time)	>1
Optional	70	TD3	Carrier Details (Equipment)	>1
Optional	80	REF	Reference Identification	>1
LOOP ID - N1				
Optional	100	N1	Name	>1

Usage	Pos. No.	Seg. ID	Name	Max. Use
LOOP ID - HL				
Optional	130	HL	Hierarchical Level	
Optional	140	PRF	Purchase Order Reference	>1

Usage	Pos. No.	Seg. ID	Name	Max. Use
LOOP ID - HL				
Optional	150	HL	Hierarchical Level	
Optional	160	LIN	Line Identification	>1
Optional	170	SN1	Item Details (Shipment)	>1

Usage	Pos. No.	Seg. ID	Name	Max. Use
Optional	180	CTT	Transaction Totals	1
Mandatory	190	SE	Transaction Set Trailer	1

SEGMENT: **ST** **– Transaction Set Header**

Loop: 856.ST
Usage: Mandatory

To indicate the start of a transaction set and to assign a control number. The transaction
Purpose : set control number (ST02) in this header must match the transaction set control number
(SE02) in the transaction set trailer (SE).

Notes : ST*856*0079

Data Element Summary

Usage	Ref. Des.	Name	Attributes
Mandatory	ST01	143 - Transaction Set Identifier Code	ID 3/3
		Code uniquely identifying a Transaction Set	
		856 Advance Shipment Notice	
Mandatory	ST02	329 - Transaction Set Control Number	AN 4/9
		Identifying control number that must be unique within the transaction set	
		functional group assigned by the originator for a transaction set	

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SEGMENT: **BSN** **- Beginning Segment for Ship Notice**

Loop: 856.BSN
Usage: Mandatory
Purpose : To transmit identifying numbers, dates, and other basic data relating to the transaction set.

Notes : BSN*00*180834*20091110*111100

Data Element Summary

Usage	Ref. Des.	Name	Attributes
Mandatory	BSN01	353 - Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original 01 Cancellation	ID 2/2
Mandatory	BSN02	396 - Shipment Identification A unique control number assigned by the original shipper to identify a specific shipment	AN 2/30
Mandatory	BSN03	373 – Date Date (YYYYMMDD) Date of ASN creation	DT 8/8
Mandatory	BSN04	337 – Time Time expressed in 24-hour clock time (HHMM) (Time range: 0000 though 2359). Time of ASN creation	TM 4/6

SEGMENT: DTM - Date/Time Reference

Loop: 856.DTM
Usage: Optional
Purpose : To specify pertinent dates and times

Notes : DTM*011*20091110*1100

Data Element Summary

Usage	Ref. Des.	Name	Attributes
Mandatory	DTM01	374 - Date/Time Qualifier Code specifying type of date or time, or both date and time 011 Shipped 017 Estimated Delivery	ID 3/3
Optional	DTM02	373 – Date Date (CCYYMMDD)	DT 8/8
Optional	DTM03	337 – Time Time expressed in 24-hour clock time (HHMM) (Time range: 0000 though 2359).	TM 4/8

SEGMENT: HL - **Hierarchical Level**

Loop: 856.HL
Usage: Optional
Purpose : To identify dependencies among and the content of hierarchically related groups of data segments

Notes : HL*1*0*S*1

Data Element Summary

Usage	Ref. Des.	Name	Attributes
Mandatory	HL01	628 – Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	AN 1/12
Optional	HL02	734 – Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	AN 1/12
Mandatory	HL03	735 – Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure S Shipment	ID ½
Optional	HL04	736 – Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	ID 1/1

SEGMENT : TD1 – Carrier Details (Quantity and Weight)

Loop : 856.HL.TD1
Usage : Optional
Purpose : To specify the transportation details relative to commodity, weight, and quantity

Notes : TD1*PLT*1

Data Element Summary

Usage	Ref. Des.	Name	Attributes
Mandatory	TD101	103 - Packaging Code	IAN 3/5
		Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	
		90 Standard	
		94 Wood	
		CNT Container	
		PLT Pallet	
		UNT Unit	
Mandatory	TD102	80 - Lading Quantity	N 1/7
		Number of units (pieces) of the lading commodity	

SEGMENT: TD5 - **Carrier Details (Routing Sequence/Transit Time)**

Loop: 856.HL.TD5
Usage: Optional
Purpose : To specify the carrier and sequence of routing and provide transit time information

Notes : TD5*B*2*SCAC*M

Data Element Summary

Usage	Ref. Des.	Name	Attributes
Optional	TD501	133 – Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement B Origin/Delivery Carrier (Any Mode)	IID 1/2
Mandatory	TD502	66 – Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 2 Standard Carrier Alpha Code (SCAC)	ID 1/2
Mandatory	TD503	67 - Identification Code Code identifying a party or other code Carriers SCAC code.	AN 2/80
Optional	TD504	91 - Transportation Method/Type Code Code specifying the method or type of transportation for the shipment A Air M Motor (Common Carrier) R Rail	ID 1/2

SEGMENT: **TD3** **- Carrier Details (Equipment)**

Loop: 856.HL.TD3
Usage: Optional
Purpose : To specify transportation details relating to the equipment used by the carrier

Notes : TD3****G*2220*LB

Data Element Summary

Usage	Ref. Des.	Name	Attributes
Optional	TD304	187 – Weight Qualifier Code defining the type of weight G Gross Weight	IID 1/2
Mandatory	TD305	81 – Weight Numeric value of weight	R 1/10
Mandatory	TD306	355 - Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken LB Pound	ID 1/2

SEGMENT: **REF** **- Reference Identification**

Loop: 856.HL.REF
Usage: Optional
Purpose : To specify identifying informations

Notes : REF*PK*7497514
REF*BM*4340640

Data Element Summary

Usage	Ref. Des.	Name	Attributes
Mandatory	REF01	128 - Reference Identification Qualifier	ID 2/3
		Code qualifying the Reference Identification	
		BM Bill of Lading Number	
		PK Packing List Number	
		SI Shipper's Identifying Number for Shipment (SID)	
Optional	REF02	127 - Reference Identification	AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Comments:

1. You must supply at least BM or PK information.

SEGMENT: **N1** - Name

Loop: 856.HL.N1
Usage: Optional
Purpose : To identify a party by type of organization, name, and code

Notes : N1*SF*Supplier Name*92*Supplier#
N1*ST*Ship To Name*92*0001

Data Element Summary

Usage	Ref. Des.	Name	Attributes
Mandatory	N101	98 - Entity Identifier Code	ID 2/3
		To identify a party by type of organization, name, and code	
		SF Ship From	
		ST Ship To	
		SU Supplier/Manufacturer	
Optional	N102	93 – Name	AN 1/60
		Free-form name	
Optional	N103	66 - Identification Code Qualifier	ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		92 Assigned by Buyer	
Optional	N104	67 - Identification Code	AN 2/80
		Code identifying a party or other code	
		If N101 - "ST", receiving plant.	
		If N101 - "SF", ship-from location.	
		If N101 - "SU", Supplier/Manufacturer	

SEGMENT: **HL** **- Hierarchical Level**

Loop: 856.HL
Usage: Optional
Purpose : To identify dependencies among and the content of hierarchically related groups of data segments

Notes : HL*2*1*O*1

Data Element Summary

Usage	Ref. Des.	Name	Attributes
Mandatory	HL01	628 - Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	AN 1/12
Optional	HL02	734 - Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	AN 1/12
Mandatory	HL03	735 - Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure O Order	ID 1/2
Optional	HL04	736 - Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	ID 1/1

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SEGMENT: PRF - **Purchase Order Reference**

Loop: 856.HL.PRF
Usage: Optional
Purpose : To provide reference to a specific purchase order

Notes : PRF*123456*001

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Data Element Summary

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Usage	Ref. Des.	Name	Attributes
Mandatory	PRF01	324 – Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser	AN 1/22
Optional	PRF02	328 – Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	AN 1/30

SEGMENT : # HL **– Hierarchical Level**

Loop : 856.HL
Usage : Optional
Purpose : To identify dependencies among and the content of hierarchically related groups of data segments

Notes : HL*3*2*I*0

Data Element Summary

Usage	Ref. Des.	Name	Attributes
Mandatory	HL01	628 - Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	AN 1/12
Optional	HL02	734 - Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	AN 1/12
Mandatory	HL03	735 - Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure I Item	ID 1/2
Optional	HL04	736 - Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	ID 1/1

SEGMENT: **LIN** - **Item Identification**

Loop: 856.HL.LIN
Usage: Optional
Purpose : To specify basic item identification data

Notes : LIN**BP*PART001*VP*VENDOR PART

Data Element Summary

Usage	Ref. Des.	Name	Attributes
Mandatory	LIN02	235 - Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) BP Buyer's Part Number	ID 2/2
Mandatory	LIN03	234 - Product/Service ID Identifying number for a product or service	AN 1/48
Optional	LIN04	235 - Product/Service ID Qualifier Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) VP Vendor's Part Number	ID 2/2
Optional	LIN05	234 - Product/Service ID Identifying number for a product or service	AN 1/48

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SEGMENT : **SN1** – Item Detail (Shipment)

Loop : 856.HL.SN1
Usage : Optional
Purpose : To specify line-item detail relative to shipment

Notes : SN1**6*EA*36

Data Element Summary

Usage	Ref. Des.	Name	Attributes
Mandatory	SN102	382 – Number of Units Shipped	R 1/10
		Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	
Mandatory	SN103	355 – Unit or Basis for Measurement Code	ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		EA Each	
Optional	SN104	646 – Quantity Shipped to Date	R 1/15
		Number of units shipped to date	

SEGMENT :CTT – Transaction Totals
Loop :   856.CTT
Usage :   Optional
Purpose :   To transmit a hash total for a specific element in the transaction set

Notes :   CTT*4

Data Element Summary

Usage	Ref. Des.	Name	Attributes
Mandatory	CTT01	354 – Number of Line Items	N0 1/6
		Total number of line items in the transaction set	

SEGMENT : SE – Transaction Set Trailer

Loop : 856.SE
Usage : Mandatory
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).

Notes : SE*63*0079

Data Element Summary

Usage	Ref. Des.	Name	Attributes
Mandatory	SE01	96 – Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	IN0 1/10
Mandatory	SE02	329 - Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	AN 4/9

Ship To Codes

Location 0001
Spectra Premium Industries
1431 Ampère St.
Boucherville, QC
Canada J4B 5Z5
(450)641-3090

SAMPLE

ST*856*0079
BSN*00*180834*20091110*111100
DTM*011*20091110
HL*1*0*S*1
TD1*PLT*1
TD5*B*2*SCAC*M
TD3****G*2220*LB
REF*PK*7497514
REF*BM*4340640
N1*SF*Supplier Name*92*Supplier#
N1*ST*Ship To Name*92*0001
HL*2*1*O*1
PRF*123456OB*001
HL*3*2*I*0
LIN**BP*PART001*VP*VENDOR PART
SN1**6*EA*36
CTT*4
SE*63*0079