



**BOOKNET  
CANADA**

**EDI Advanced Shipment Notice  
Adapted for Return Shipping  
856 - 004010**

Revised Dec 2005

Version .91

Prepared by: Booknet Canada

Distribution: Industry-wide



## Table of Contents

Table of Contents .....	1
Change Log .....	2
EDI Requirements and Notes .....	3
ISA Segment .....	5
GS Segment.....	6
ST Segment .....	7
BSN Segment .....	8
<i>DTM Segment</i> .....	9
HL Segment .....	10
TD1 Segment.....	11
TD5 Segment.....	12
REF Segment (Bill of Lading Number).....	13
N1 Segment (Ship To).....	14
N1 Segment (Ship From) .....	15
HL Segment .....	16
REF Segment (Claim ID).....	17
REF Segment (Authorization #).....	18
HL Segment .....	19
MAN Segment.....	20
HL Segment .....	21
LIN Segment .....	22
SN1 Segment.....	24
PID Segment.....	25
REF Segment (Authorization #).....	26
CTT Segment.....	27
SE Segment .....	28
GE Segment.....	29
IEA Segment .....	30
Sample Book ASN for returns.....	31



## **Change Log**

### **October 6, 2005 (Doug Minett):**

Draft for EDI committee.

### **Dec 15, 2005 (Doug Minett):**

PO1: note added for support of 'VN' (vendor number) main identifier.

TD1: mandatory -> optional-required (X12 consistency)

TD5: mandatory -> optional (independents can't comply)

REF (BM): mandatory -> optional (independents can't comply)

### **Dec 31, 2005 (Doug Minett):**

Clarified reference # usage in notes.

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## **EDI Requirements and Notes**

Segments and elements highlighted in bold are mandatory, while segments and elements in italics are optional.

Element Length: ISA segment contains fixed length elements. All other segments may have fixed or variable length elements.

If a segment is (OPTIONAL—REQUIRED) then it may or may not be sent but if sent then consider it a mandatory field as far as processing is concerned. For example if a DTM segment is sent with a cancel date then this segment must be processed.

Notes on document sequence:

Step #1: The retailer generates a 180N (Returns Merchandise Notification request) for items that it wishes to return, or potentially markdown.

Step #2: The supplier processes the request. Considerations during the processing may include: checking whether the items were purchased by the retailer, checking whether the items are still returnable, considering whether to offer markdowns if the items are not returned, considering whether to provide exception notes to retailer to encourage that they continue to hold an item.

Step #3: The supplier generates a 180A (Returns Merchandise Authorization response) which provides a complete response to the 180N. The response may include reasons for rejection, general RMA #, markdown authorization #(s), or exception notes for consideration by the retailer.

Step #4: The retailer does exception processing of the 180A that facilitates further consideration prior to final decisions to return/destroy goods, accept markdown offer(s).

Step #5: The retailer generates 856R (Advanced Ship Notice for returns), quoting necessary authorization numbers for supplier.

Step #6a: Following generation of the 856R and shipment of physical goods, 810DR (Invoice – Debit Memo) is generated, quoting necessary authorization numbers from the supplier.

Step #6b: Where markdown offer(s) are accepted, 810DR (Invoice – Debit Memo) is generated, quoting necessary authorization numbers from the supplier to obtain the offer.

Step #7: The supplier processes the various 810DR documents. This may involve cross-referencing an 810DR with an 856R as well as a previously sent 180A, or merely cross-referencing an 810DR with the previously sent 180A – in the case of markdown offer(s).

Step #8: The supplier generates an 810CR credit memo document in response to the 810DR.

Step #9: The retailer does exception processing that compares the 810CR against the original 810DR.

Note on reference numbers:

- *Transaction reference link* (return request #) between 180N and 180A: The value sent within the 180N BGN02 must be returned within the BGN06 in the 180A.
- *Transaction reference link* (claim ID#) between 856R, 810DR and 810CR: The value sent within REF02 of the 856R REF 'D9' segment must be repeated in the same location in the BIG02 in the 810DR and returned by the supplier in the REF 'D9' in the 810CR.
- *Authority reference for return (RMA#)* (where applicable) link between 180A, 856R, 810DR, and 810CR: The value sent within N902 of the N9 'RZ' segment in the 180A must be returned within the REF02 of the REF 'RZ' segment in the 856R and the 810DR.
- *Authority reference for markdown* (authorization #)(where applicable): The value sent within N902 of the N9 'BB' segment in the 180A must be returned within REF02 of the REF 'BB' segment in the 810DR (in Table 1 (document level) or where Table 1 value is over-ridden, in Table 2 (line level)).

**856 - Version 4010  
Advanced Shipment Notice  
(MANDATORY)**

**ISA Segment**

Example: ISA\*00\*            \*00\*            \*ZZ\*SND MB ID    \*ZZ\*RCV MB ID  
\*000831\*1055\*U\*00401\*000000001\*0\*P\*

Element	Value	Length	Comment
. ISA01	00	2	'00'
. ISA02		10	'        '
. ISA03	00	2	'00'
. ISA04		10	'        '
. ISA05	sender mailbox qualifier	2	'ZZ' Pubnet
. ISA06	sender mailbox ID	15	sender mailbox ID
. ISA07	receiver mailbox qualifier	2	'ZZ' Pubnet
. ISA08	receiver mailbox ID	15	receiver mailbox ID
. ISA09	date	6	yymmdd
. ISA10	time	4	hhmm
. ISA11	U	1	'U' ISA standard ID
. ISA12	00401	5	'00401' ISA version ID
. ISA13	ISA control number	9	
. ISA14	0	1	'0'
. ISA15	P	1	'P' production 'T' test
. ISA16	'	1	'"' sub element separator

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Advanced Shipment Notice  
(MANDATORY)**

**GS Segment**

Example: GS\*SH\*SND MB ID\*RCV MB ID\*20000930\*1105\*1001\*X\*004010

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. GS01	functional identifier code	2	'SH' advanced ship notice
. GS02	sender mailbox ID	2/15	sender mailbox ID
. GS03	receiver mailbox ID	2/15	receiver mailbox ID
. GS04	date	8	ccyymmdd
. GS05	time	4	hhmm
. GS06	GS control number	1/9	
. GS07	X	1	'X' standard
. GS08	004010	1/12	'004010' version

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Advanced Shipment Notice  
(MANDATORY)**

**ST Segment**

Example: ST\*856\*0001

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. ST01	856	3	'856'
. ST02	ST control number	1/9	

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(MANDATORY)**

**BSN Segment**

Purpose: To indicate the beginning of the advanced shipment notice and transmit identifying numbers and dates.

Example: BSN\*00\*1234567\*20000930\*1105\*0001

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. BSN01	00	2	'00' original
. BSN02	ASN ID	2/30	ASN #
. BSN03	ASN date	8	ccyymmdd format
. BSN04	ASN time	4	hhmm format
. BSN05	0001	4	document structure: shipment/order/pack/item
. BSN06	not used		
. BSN07	not used		

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**Advanced Shipment Notice**  
**(OPTIONAL--REQUIRED)**

***DTM Segment***

*Purpose: To indicate the ship date of the advanced shipment notice.*

*Example: DTM\*011\*20000930*

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. <b>DTM01</b>	<b>date qualifier</b>	<b>3</b>	<b>'011' shipped date</b>
. <b>DTM02</b>	<b>shipped date</b>	<b>8</b>	<b>ccyymmdd format</b>
. <b>DTM03</b>	<i>not used</i>		
. <b>DTM04</b>	<i>not used</i>		
. <b>DTM05</b>	<i>not used</i>		
. <b>DTM06</b>	<i>not used</i>		

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(MANDATORY)**

**HL Segment**

Purpose: To indicate the shipment hierarchical level.

Example: HL\*1\*\*S

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. HL01	<b>1</b>	<b>1/12</b>	<b>'1'</b>
. HL02	not used		
. HL03	<b>S</b>	<b>1/2</b>	<b>'S' shipment level</b>
. HL04	not used		



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(OPTIONAL-REQUIRED)**

**TD1 Segment**

Purpose: The TD1 segment is used to specify transportation details of the shipment relative to commodity, quantity, and weight.

Example: TD1\*CNT25\*5\*\*\*\*G\*50\*KG

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. TD101	CNT25	3/5	packaging code 'CNT25'=corrugated or solid carton 'PLT94'=wooden pallet
. TD102	5	1/7	packaging quantity
. TD103	not used		
. TD104	not used		
. TD105	not used		
. TD106	G	1/2	<i>weight type qualifier</i>
. TD107	50	1/10	<i>weight</i>
. TD108	<i>weight measure</i>	2	<i>weight measurement qualifier 'KG' kilograms 'LB' pounds</i>
. TD109	not used.		
. TD110	not used		

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Advanced Shipment Notice  
(OPTIONAL)**

**TD5 Segment**

Purpose: The TD5 segment is used to identify the carrier of the shipment.

Example: TD5\*\*\*\*M\*TRUCKING COMPANY

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. TD501	not used		
. TD502	not used		
. TD503	not used		
. <b>TD504</b>	<b>type of carrier code</b>	<b>1/2</b>	<b>'M' motor common carrier 'A' air 'ZZ' mutually defined</b>
. <b>TD505</b>	<b>carrier name</b>	<b>1/35</b>	
. TD506	not used		
. TD507	not used		
. TD508	not used		
. TD509	not used.		
. TD510	not used		
. TD511	not used		
. TD512	not used		
. TD513	not used		
. TD514	not used		
. TD515	not used.		

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Advanced Shipment Notice  
(OPTIONAL)**

**REF Segment (Bill of Lading Number)**

Purpose: This REF segment is used to indicate the bill of lading number of the shipment.

Example: REF\*BM\*12345678

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. REF01	BM	2	'BM' bill of lading number
. REF02	bill of lading #	1/30	
. REF03	not used		
. REF04	not used		

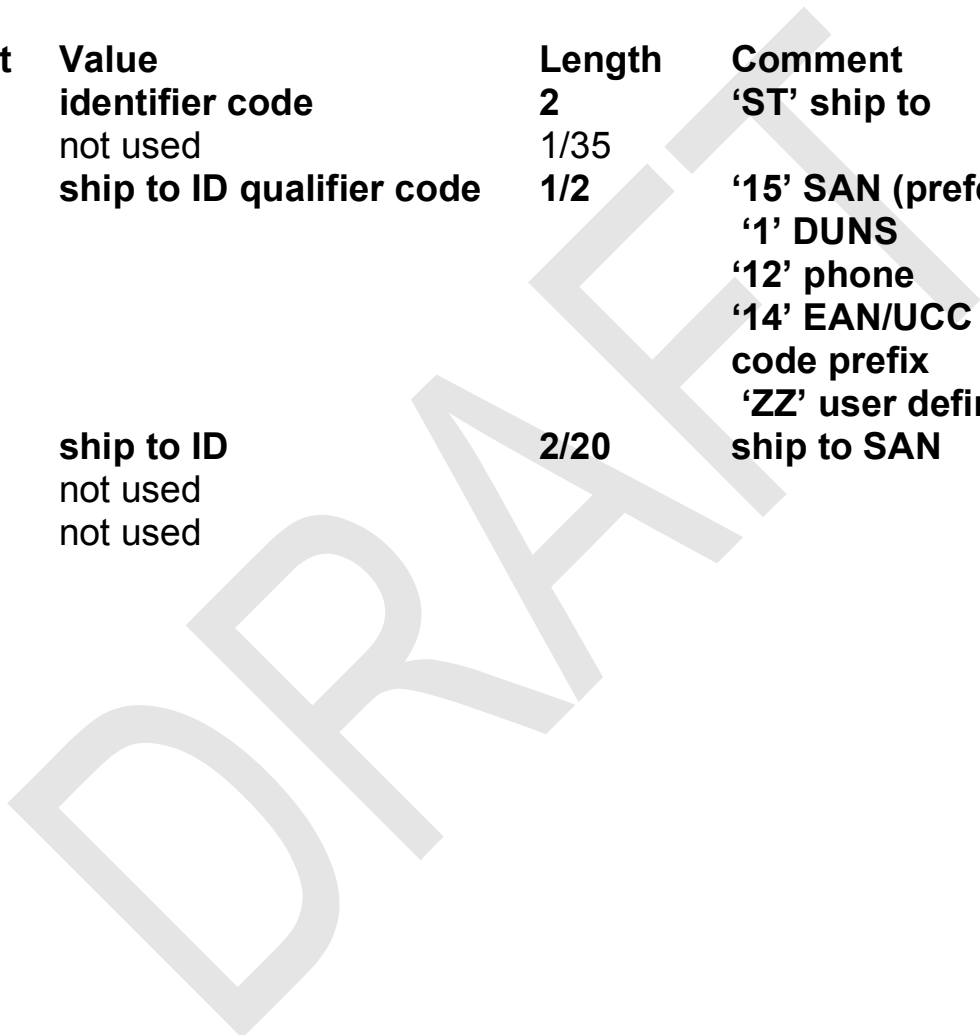


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Advanced Shipment Notice  
(MANDATORY)**

**N1 Segment (Ship To)**

Purpose: The N1 segment will identify the Ship To Location for the order.  
Example: N1\*ST\*\*15\*1186213

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. N101	identifier code	2	'ST' ship to
. N102	not used	1/35	
. N103	ship to ID qualifier code	1/2	'15' SAN (preferred) '1' DUNS '12' phone '14' EAN/UCC location code prefix 'ZZ' user defined ship to SAN
. N104	ship to ID	2/20	
. N105	not used		
. N106	not used		



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Advanced Shipment Notice  
(MANDATORY)**

**N1 Segment (Ship From)**

Purpose: The N1 segment will identify the Ship-From location for the shipment.

Example: N1\*SF\*VENDOR NAME\* 15\*1234567

Element	Value	Length	Comment
. N101	identifier code	2	'SF' ship from
. N102	ship from name	1/35	
. N103	ship from ID qualifier code	1/2	'15' SAN (preferred) '1' DUNS '12' phone '14' EAN/UCC location code prefix 'ZZ' user defined
. N104	ship from ID code	2/20	ship from ID
. N105	not used		
. N106	not used		



**856 - Version 4010  
Advanced Shipment Notice  
(MANDATORY)****HL Segment**

Purpose: To indicate the order hierarchical level. "Order" HL level is not relevant in return process, but is required to satisfy X12 rules. REF segment containing mandatory claim # information will be placed at this level of the document.

Example: HL\*2\*1\*O

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. HL01	hierarchical ID #	1/12	incremented for each new order, carton and item
. HL02	hierarchical parent ID #	1/12	'1'
. HL03	O	1/2	'O' order level
. HL04	not used		

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Advanced Shipment Notice  
(MANDATORY)**

**REF Segment (Claim ID)**

Purpose: This REF segment is used to indicate the shipper's return claim number. *This reference is used for cross-referencing the 856R with the associated 810DR and 810CR.*

Example: REF\*D9\*claim#

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. REF01	D9	2	'D9' claim ID#
. REF02	claim #	1/30	
. REF03	not used		
. REF04	not used		

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Advanced Shipment Notice  
(OPTIONAL - REQUIRED)**

**REF Segment (Authorization #)**

Purpose: This REF segment is used to indicate the supplier's return authorization number (RMA). *This reference is used when required by a supplier.*

Example: REF\*BB\*10112345

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. REF01	RZ	2	'RZ' rma#
. REF02	authorization #	1/30	
. REF03	not used		
. REF04	not used		

**856 - Version 4010  
Advanced Shipment Notice  
(MANDATORY)**

**HL Segment**

Purpose: To indicate the pack or carton hierarchical level.

Example: HL\*3\*2\*P

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. HL01	hierarchical #	1/12	incremented for each new order, carton and item
. HL02	hierarchical parent #	1/12	hierarchical # for order HL which this carton is part of
. HL03	P	1/2	'P' pack level
. HL04	not used		

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Advanced Shipment Notice  
(MANDATORY)**

**MAN Segment**

Purpose: To indicate the pack or carton hierarchical level. Shippers with SSCC number blocks should use them to guarantee carton number uniqueness. Those who do not have such blocks should build a unique numbering scheme utilizing the first 6 digits of their SAN as a prefix.

Example: MAN\*CA\*10112345678901234567

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. MAN01	CA	1/2	'CA' shipper assigned carton number
. MAN02	carton number	1/48	carton number
. MAN03	not used		
. MAN04	not used		
. MAN05	not used		
. MAN06	not used		

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Advanced Shipment Notice  
(MANDATORY)**

**HL Segment**

Purpose: To indicate the item hierarchical level.

Example: HL\*4\*3\*1

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. HL01	hierarchical #	1/12	incremented for each new order, carton and item
. HL02	hierarchical parent #	1/12	hierarchical # for carton HL which contains this item
. HL03	I	1/2	from which this item is for 'I' item level
. HL04	not used		

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Advanced Shipment Notice  
(MANDATORY)**

**LIN Segment**

Purpose: To specify the identifying code of the item (either a UPC # or ISBN #). There will be one occurrence for each line item. If the purchase order for the item is different than the default purchase order number specified in the *order level* PRF, it *must* be specified here.

Example: LIN\*1\*IB\*1020304050\*EN\*9791111111111

**NOTE: Either an ISBN-10 or an ISBN-13/EAN or a EAN/UCC-14 (GTIN-14) or a UPC is usually mandatory. When this is impossible, a trading partner specific vendor number (qualifier = 'VN') may be used as the main identifier. More than one identifier may be sent (eg. ISBN-10 and ISBN-13/EAN), but only one will be used. *It is essential to check with a trading partner whether a particular identifier is supported prior to implementation.***

Element	Value	Length	Comment
. LIN01	Line Number	1/20	
. LIN02	main item ID qualifier	2	mandatory: 'IB' ISBN-10 'EN' ISBN-13/EAN 'UK' EAN/UCC-14 'UP' UPC
. LIN03	main item ID	1/40	main item ID #
. LIN04	alt 1 ID qualifier	2	optional/required: 'IB' ISBN-10 'EN' ISBN-13/EAN 'UK' EAN/UCC-14 'UP' UPC 'VN' Vendor 'MG' Manufacture Code
. LIN05	alt 1 ID	1/40	alternate 1 ID #
. LIN06	alt 2 ID qualifier	2	optional/required: 'IB' ISBN-10 'EN' ISBN-13/EAN 'UK' EAN/UCC-14



			<p><b>'UP' UPC</b>  <b>'VN' Vendor</b>  <b>'MG' Manufacture Code</b>  <b>alternate 2 ID #</b>  <b>optional/required:</b>  <b>'IB' ISBN-10</b>  <b>'EN' ISBN-13/EAN</b>  <b>'UK' EAN/UCC-14</b>  <b>'UP' UPC</b>  <b>'VN' Vendor</b>  <b>'MG' Manufacture Code</b>  <b>alternate 3 ID #</b></p>
. LIN07	alt 2 ID	1/40	
. LIN08	alt 3 ID qualifier	2	
. LIN09	alt 3 ID	1/40	
. LIN10	not used		
. LIN11	not used		
. LIN12	not used		
. LIN13	not used		
. LIN14	not used		
. LIN15	not used		
. LIN16	not used		
. LIN17	not used		
. LIN18	not used		
. LIN19	not used		
. LIN20	not used		
. LIN21	not used		
. LIN22	not used		
. LIN23	not used		
. LIN24	not used		
. LIN25	not used		
. LIN26	not used		
. LIN27	not used		
. LIN28	not used		
. LIN29	not used		
. LIN30	not used		
. LIN31	not used		



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Advanced Shipment Notice  
(MANDATORY)**

**SN1 Segment**

Purpose: To specify the quantity of the item shipped.

Example: SN1\*\*500\*EA

Element	Value	Length	Comment
. SN101	not used		
. <b>SN102</b>	<b>shipped quantity</b>	<b>1/10</b>	
. <b>SN103</b>	<b>unit of measure</b>	<b>2</b>	<b>'UN' unit 'EA' each</b>
. SN104	not used		
. SN105	not used		
. SN106	not used		
. SN107	not used		
. SN108	not used		
. SN109	not used		

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Advanced Shipment Notice  
(MANDATORY)**

**PID Segment**

Purpose: To specify unstructured line item description.

1 occurrence for each line item.

Example: PID\*F\*\*\*\*BOOK OF THE MONTH

Element	Value	Length	Comment
. <b>PID01</b>	<b>F</b>	<b>1</b>	<b>'F' free form description</b>
. PID02	not used		
. PID03	not used		
. PID04	not used		
. <b>PID05</b>	<b>description</b>	<b>1/80</b>	<b>product description</b>
. PID06	not used		
. PID07	not used		
. PID08	not used		
. PID09	not used		



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Advanced Shipment Notice  
(OPTIONAL - REQUIRED)**

**REF Segment (Authorization #)**

Purpose: This REF segment is used to indicate the supplier's return authorization number. *This reference is used when required by a supplier. Used in the LIN loop this REF segment will override a REF in the Order HL loop for that LIN loop only.*

Example: REF\*BB\*10112345

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. REF01	RZ	2	'RZ' authorization number
. REF02	authorization #	1/30	
. REF03	not used		
. REF04	not used		

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Advanced Shipment Notice  
(MANDATORY)**

**CTT Segment**

Purpose: To provide totals.

Example: CTT\*3\*500

Element	Value	Length	Comment
. CTT01	<b># of HL segments</b>	<b>1/6</b>	<b># of HL segments</b>
. CTT02	<b>hash total</b>	<b>1/10</b>	<b>total of SN1 quantities</b>
. CTT03	not used		
. CTT04	not used		
. CTT05	not used		
. CTT06	not used		
. CTT07	not used		

**856 - Version 4010  
Advanced Shipment Notice  
(MANDATORY)**

**SE Segment**

Example: SE\*17\*0001

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
<b>. SE01</b>	<b>number of segments</b>	<b>1/10</b>	<b>number of segments in document including ST and SE segments</b>
<b>. SE02</b>	<b>SE control number</b>	<b>1/9</b>	<b>must match ST control number</b>



**856 - Version 4010  
Advanced Shipment Notice  
(MANDATORY)**

**GE Segment**

Example: GE\*4\*1001

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
<b>. GE01</b>	<b>number of documents</b>	<b>1/6</b>	<b>number of documents, number of ST/SE pairs</b>
<b>. GE02</b>	<b>GE control number</b>	<b>1/9</b>	<b>must match GS control number</b>

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**856 - Version 4010  
Advanced Shipment Notice  
(MANDATORY)**

**IEA Segment**

Example: IEA\*1\*000000001

<b>Element</b>	<b>Value</b>	<b>Length</b>	<b>Comment</b>
. IEA01	number of envelopes	8	number of GS/GE pairs
. IEA02	IEA control number	9	must match ISA control number

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**856 - Version 4010  
Advanced Shipment Notice**

**Sample Book ASN for returns**

ISA\*00\* \*00\* \*ZZ\*SND MB ID \*ZZ\*RCV MB ID  
\*000930\*1105\*U\*00401\*000000001\*0\*P\*'  
GS\*SH\*SND MB ID\*RCV MB ID\*20000930\*1105\*1001\*X\*004010  
ST\*856\*0001  
BSN\*00\*123456\*20000930\*1105\*0001  
DTM\*011\*20000930  
HL\*1\*\*S  
TD1\*CNT25\*5\*\*\*\*G\*50\*KG  
TD5\*\*\*\*M\*CARRIER ONE  
REF\*BM\*1111111  
N1\*ST\*VENDOR NAME\*15\*1111111  
N1\*Sf\*RETAILER NAME\*15\*1234567  
HL\*2\*1\*O  
REF\*D9\*claim#  
REF\*RZ\*rma#  
HL\*3\*2\*P  
MAN\*CA\*10100001901234567890  
HL\*4\*3\*I  
LIN\*1\*IB\*9876543210  
SN1\*\*500\*EA  
PID\*F\*\*\*\*TEST BOOK 1  
REF\*RZ\*11112  
HL\*5\*3\*I  
LIN\*2\*IB\*9876543211  
SN1\*\*400\*EA  
PID\*F\*\*\*\*TEST BOOK 2  
HL\*6\*2\*P  
MAN\*CA\*10100002  
HL\*7\*6\*I  
LIN\*3\*IB\*9876543213  
SN1\*\*100\*EA





PID\*F\*\*\*\*TEST BOOK 3

HL\*8\*2\*P

MAN\*CA\*10100003

HL\*9\*8\*I

LIN\*4\*IB\*9876543214

SN1\*\*100\*EA

PID\*F\*\*\*\*TEST BOOK 4

CTT\*9\*1100

SE\*37\*0001

GE\*1\*1001

IEA\*1\*000000001

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