



**BOOKNET
CANADA**

**EDI Invoice
Adapted for return debit memo
810 – Version 004010**

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Version .91

Prepared by: Booknet Canada

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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.

REF ('D9' Debit Memo #): deleted (data redundant with BIG02)

ITD: deleted (apply immediately is assumed)

Dec 31, 2005 (Doug Minett):

Clarified reference # usage in notes.

SAC: added SAC06/07 dependency requirement & notes.

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.

All totals pertaining to the debit memo must be sent: invoice total (TDS) as it would appear on a vendor statement, GST/HST total (TXI), PST total (TXI) if it exists, shipping & handling total (SAC) if it exists.

All line level data must be sent: item quantity (IT1), item ID (IT1), item list price (CTP), and item discount (CTP).

Invoice (Debit Memo) will be tested as follows for validity: Invoice (Debit Memo) total (TDS) must reconcile with the sum of the net line totals within .01/line (rounding error) + sum of taxes (TXI) + shipping (SAC). Invoices that fail this test will be considered invalid.

The transaction type code for a debit memo (sent in BIG07) can be *any one of the following*. Although X12 allows for a code value of 'DR' (Debit Memo) in this data element, the Booknet Canada specification requires one of the following code values to indicate the specific debit memo type within the document. *Mixed purpose debit memos are prohibited.*

- '60' – material in transit (used for actual return)
- 'BB' – bill back (used for markdown in place)
- 'UP' – un-saleable product (used for destroy in place)

All values should be sent as positive values. The sender of the document will expect that the supplier will return an 810CR with BIG07 containing 'CR' (credit memo).

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)).



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Invoice (Debit Memo)
(MANDATORY)**

ISA Segment

Example: ISA*00* *00* *ZZ*SND MB ID *ZZ*RCV MB ID
*000930*1105*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

**810 - Version 4010
Invoice (Debit Memo)
(MANDATORY)**

GS Segment

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

Element	Value	Length	Comment
. GS01	functional identifier code	2	'IN' invoice
. 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



**810 - Version 4010
Invoice (Debit Memo)
(MANDATORY)**

ST Segment

Example: ST*810*0001

Element	Value	Length	Comment
. ST01	810	3	'810'
. ST02	ST control number	1/9	

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**810 - Version 4010
Invoice (Debit Memo)
(MANDATORY)**

BIG Segment

Purpose: To indicate the beginning of the debit memo and transmit debit memo number.

Example: BIG*20000930*1234567*****DR*60

Element	Value	Length	Comment
. BIG01	debit memo date	8	ccyymmdd format
. BIG02	debit memo number	1/22	(claim ID#)
. BIG03	not used		
. BIG04	not used		
. BIG05	not used		
. BIG06	not used		
. BIG07	transaction set purpose	2	'60' material in transit 'BB' bill back (used for markdown in place) 'UP' un-saleable product (used for destroy in place)
. BIG08	not used		
. BIG09	not used		
. BIG10	not used		

**810 - Version 4010
Invoice (Debit Memo)
(MANDATORY)**

CUR Segment

Purpose: To indicate the currency used for the prices in the invoice (Debit Memo).

Example: CUR*SE*USD

Element	Value	Length	Comment
. CUR01	SE	2	'BY'=Buyer 'SE'=Seller
. CUR02	currency	3	
. CUR03	not used		
. CUR04	not used		
. CUR05	not used		
. CUR06	not used		
. CUR07	not used		
. CUR08	not used		
. CUR09	not used.		
. CUR10	not used.		
. CUR11	not used.		
. CUR12	not used.		
. CUR13	not used		
. CUR14	not used		
. CUR15	not used		
. CUR16	not used		
. CUR17	not used		
. CUR18	not used		
. CUR19	not used.		
. CUR20	not used.		
. CUR21	not used.		

**810 - Version 4010
Invoice (Debit Memo)
(OPTIONAL - REQUIRED)**

REF Segment (Authorization #)

Purpose: This REF segment is used to indicate the supplier's return authorization number. *This reference is used when a blanket authorization # is required by a supplier for material returns or when a blanket authorization number is provided for markdown in place or destroy in place.*

Example: REF*RZ*rma#

Element	Value	Length	Comment
. REF01	reference identifier qualifier 2		'BB' authorization number 'RZ' returns material authorization number
. REF02	authorization #	1/30	
. REF03	not used		
. REF04	not used		

**810 - Version 4010
Invoice (Debit Memo)
(OPTIONAL)**

REF Segment (Billing Account Number)

Purpose: This REF segment is used to indicate the account number under which the invoice (Debit Memo) is rendered.

*Example: REF*12*12345678*

Element	Value	Length	Comment
. REF01	12	2	'12' account #
. REF02	account #	1/30	
. REF03	not used		
. REF04	not used		

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Invoice (Debit Memo)
(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*

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

**810 - Version 4010
Invoice (Debit Memo)
(MANDATORY)**

N1 Segment (Bill To)

Purpose: The N1 segment will identify the Bill-To location for the order.

Example: N1*BT**15*1436008

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

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Invoice (Debit Memo)
(MANDATORY)**

N1 Segment (Ship To)

Purpose: The N1 segment will identify the Ship To Location for the order.

Example: N1*ST**15*1186213

Element	Value	Length	Comment
. 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
. N104	ship to ID	2/20	ship to SAN
. N105	not used		
. N106	not used		

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Invoice (Debit Memo)
(MANDATORY)**

N1 Segment (Vendor)

Purpose: The N1 segment will identify the Vendor for the order.

Example: N1*VN**15*1234567

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

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Invoice (Debit Memo)
(OPTIONAL)

DTM Segment

Purpose: To indicate the ship date of the shipment covered by this debit memo.

*Example: DTM*011*20000930*

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

**810 - Version 4010
Invoice (Debit Memo)
(MANDATORY)**

IT1 Segment

Purpose: To specify the basic invoice (Debit Memo) line item data. *Separate IT1 loops should be sent where multiple invoice numbers apply.*

Example: IT1*1*25*EA*10.36*NT*IB*1020304050

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
. IT101	line number	1/20	
. IT102	debit memo quantity	1/10	
. IT103	unit of measure	2	'UN' unit 'EA' each
. IT104	unit price	1/17	unit price
. IT105	unit price qualifier	2	'NT' net price
. IT106	main item ID qualifier	2	mandatory: 'IB' ISBN-10 'EN' ISBN-13/EAN 'UK' EAN/UCC-14 'UP' UPC
. IT107	main item ID	1/40	main ID #
. IT108	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
. IT109	alt 1 ID	1/40	alternate 1 ID #



. IT110	alt 2 ID qualifier	2	optional/required: 'IB' ISBN-10 'EN' ISBN-13/EAN 'UK' EAN/UCC-14 'UP' UPC 'VN' Vendor 'MG' Manufacture Code alternate 2 ID #
. IT111	alt 2 ID	1/40	optional/required: 'IB' ISBN-10 'EN' ISBN-13/EAN 'UK' EAN/UCC-14 'UP' UPC 'VN' Vendor 'MG' Manufacture Code alternate 3 ID #
. IT112	alt 3 ID qualifier	2	
. IT113	alt 3 ID	1/40	
. IT114	not used		
. IT115	not used		
. IT116	not used		
. IT117	not used		
. IT118	not used		
. IT119	not used		
. IT120	not used		
. IT121	not used		
. IT122	not used		
. IT123	not used		
. IT124	not used		
. IT125	not used		

**810 - Version 4010
Invoice (Debit Memo)
(MANDATORY)**

CTP Segment

Purpose: The CTP segment will specify invoice (Debit Memo) price and discount.

Example: CTP**SLP*12.95***DIS*.8

Element	Value	Length	Comment
. CTP01	not used		
. CTP02	unit price qualifier	3	'SLP' suggested list
. CTP03	unit price	1/17	unit price
. CTP04	not used		
. CTP05	not used		
. CTP06	price multiplier qualifier	3	'DIS' discount multiplier
. CTP07	multiplier	1/10	multiplier of .8 indicates 20% discount, .6 indicates 40%
. CTP08	not used		
. CTP09	not used		
. CTP10	not used		
. CTP11	not used		

**810 - Version 4010
Invoice (Debit Memo)
(OPTIONAL)**

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
. PID01	F	1	'F' free form description
. PID02	not used		
. PID03	not used		
. PID04	not used		
. PID05	description	1/80	product description
. PID06	not used		
. PID07	not used		
. PID08	not used		
. PID09	not used		

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Invoice (Debit Memo)
(OPTIONAL - REQUIRED)

SAC Segment (allowance)

Purpose: To indicate an invoice (Debit Memo) markdown percentage or amount. *This should not be used when physically returning goods. Either SAC07 or SAC08 should be sent, not both.* When SAC08 is sent, the value refers to the amount per unit quantity indicated in IT102. When SAC07 is sent, SAC06 must also be sent and the percentage is applied against the net value of the extended IT1 loop amount. *A valid authorization # provided by the supplier is required when sending an SAC in the IT1 loop.*

Example: SAC*R*E800****2*.5*****05

Element	Value	Length	Comment
. SAC01	allowance or charge	1	'R' allowance request
. SAC02	service/allowance code	4	'E800' no return credit allowance 'H000' special allowance
. SAC03	not used		
. SAC04	not used		
. SAC05	not used		
. SAC06	allowance charge percent qualifier 1		'2' item net cost
. SAC07	allowance percentage	1/6	SAC07/06 dependency both required if either present
. SAC08	allowance rate per unit	1/9	
. SAC09	not used.		
. SAC10	not used.		
. SAC11	not used.		
. SAC12	method of handling	2	'05' paid by vendor
. SAC13	not used		
. SAC14	not used		
. SAC15	not used.		



**810 - Version 4010
Invoice (Debit Memo)
(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 IT1 loop this REF segment will override a REF 'BB' in Table 1 for that IT1 loop only.*

Example: REF*BB*auth#10112345

Element	Value	Length	Comment
. REF01	BB	2	'BB' authorization number
. REF02	authorization #	1/30	
. REF03	not used		
. REF04	not used		

**810 - Version 4010
Invoice (Debit Memo)
(OPTIONAL - REQUIRED)**

REF Segment (Original Invoice #)

Purpose: This REF segment is used to indicate the supplier's original invoice number(s). *This reference is used when required by a supplier. Separate IT1 loops for the same item ID# should be sent where multiple invoice numbers apply.*

Example: REF*OI*10112345

Element	Value	Length	Comment
. REF01	OI	2	'OI' invoice number
. REF02	invoice #	1/30	
. REF03	not used		
. REF04	not used		

**810 - Version 4010
Invoice (Debit Memo)
(MANDATORY)**

TDS Segment

Purpose: To indicate the invoice (Debit Memo) total amount. Do NOT use decimal. Example amount would indicate 2099.31.

Example: TDS*209931

Element	Value	Length	Comment
. TDS01	debit memo total	1/15	decimal implied <i>only</i>
. TDS02	not used		
. TDS03	not used		
. TDS04	not used		

**810 - Version 4010
Invoice (Debit Memo)
(OPTIONAL - REQUIRED)**

TXI Segment

Purpose: To indicate the total invoice (Debit Memo) amount of GST or HST.
Example: TXI*GS*140.45

Element	Value	Length	Comment
. TXI01	tax type code	2	'GS' GST/HST
. TXI02	total GST amount	1/15	decimal is required
. TXI03	not used		
. TXI04	not used		
. TXI05	not used		
. TXI06	not used		
. TXI07	not used		
. TXI08	not used		
. TXI09	not used		
. TXI10	not used		

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Invoice (Debit Memo)
(OPTIONAL REQUIRED)**

TXI Segment

Purpose: To indicate the total invoice (Debit Memo) amount of PST.

Example: TXI*SP*120.44

Element	Value	Length	Comment
. TXI01	tax type code	2	'SP' state/prov tax
. TXI02	total PST amount	1/15	decimal is required
. TXI03	not used		
. TXI04	not used		
. TXI05	not used		
. TXI06	not used		
. TXI07	not used		
. TXI08	not used		
. TXI09	not used		
. TXI10	not used		

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Invoice (Debit Memo)
(OPTIONAL)**

CAD Segment

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

Example: CAD*M****TRUCKING COMPANY

Element	Value	Length	Comment
. CAD01	type of carrier code	1/2	'M' motor common carrier 'A' air
. CAD02	not used		
. CAD03	not used		
. CAD04	not used		
. CAD05	carrier name	1/35	
. CAD06	not used		
. CAD07	not used		
. CAD08	not used		
. CAD09	not used		

**810 - Version 4010
Invoice (Debit Memo)
(OPTIONAL - REQUIRED)**

SAC Segment (shipping)

Purpose: To indicate an invoice (Debit Memo) shipping amount. Do NOT use decimal. Example amount would indicate 30.99.

Example: SAC*C*G830***3099*****05

Note: When SAC segment is sent, SAC loop TXI segment must also be sent. See below.

Element	Value	Length	Comment
. SAC01	allowance or charge	1	'C' charge
. SAC02	service/allowance code	4	'G830' shipping & handling
. SAC03	not used		
. SAC04	not used		
. SAC05	shipping total amount	1/15	decimal implied only
. SAC06	not used		
. SAC07	not used		
. SAC08	not used		
. SAC09	not used.		
. SAC10	not used.		
. SAC11	not used.		
. SAC12	method of handling	2	'05' paid by vendor
. SAC13	not used		
. SAC14	not used		
. SAC15	not used.		

**810 - Version 4010
Invoice (Debit Memo)
(OPTIONAL - REQUIRED)**

TXI Segment

Purpose: To indicate the total invoice (Debit Memo) amount of GST or HST.

Example: TXI*GS*2.10

Note: This TXI segment is required only when a SAC shipping segment is sent. This segment will contain the GST amount *for shipping only*.

Element	Value	Length	Comment
. TXI01	tax type code	2	'GS' GST/HST
. TXI02	shipping GST amount	1/15	decimal is required
. TXI03	not used		
. TXI04	not used		
. TXI05	not used		
. TXI06	not used		
. TXI07	not used		
. TXI08	not used		
. TXI09	not used		
. TXI10	not used		



**810 - Version 4010
Invoice (Debit Memo)
(OPTIONAL)**

ISS Segment

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

Example: ISS*5*CT*50*KG

Element	Value	Length	Comment
. ISS01	quantity	1/10	quantity
. ISS02	quantity qualifier	2	quantity qualifier 'CT' carton 'PL' pallet
. ISS03	weight	1/10	weight
. ISS04	weight qualifier	2	weight qualifier 'KG' kilograms 'LB' pounds
. ISS05	not used		
. ISS06	not used		
. ISS07	not used		
. ISS08	not used		

**810 - Version 4010
Invoice (Debit Memo)
(MANDATORY)**

CTT Segment

Purpose: To provide totals.

Example: CTT*3*500

Element	Value	Length	Comment
. CTT01	# of line items	1/6	# of IT1 segments
. CTT02	hash total	1/10	total of IT1 quantities
. CTT03	not used		
. CTT04	not used		
. CTT05	not used		
. CTT06	not used		
. CTT07	not used		

**810 - Version 4010
Invoice (Debit Memo)
(MANDATORY)**

SE Segment

Example: SE*17*0001

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



**810 - Version 4010
Invoice (Debit Memo)
(MANDATORY)**

GE Segment

Example: GE*4*1001

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

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**810 - Version 4010
Invoice (Debit Memo)
(MANDATORY)**

IEA Segment

Example: IEA*1*000000001

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

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**810 - Version 4010
Invoice (Debit Memo)**

Sample Book Invoice (Debit Memo – return of goods)

ISA*00* *00* *ZZ*SND MB ID *ZZ*RCV MB ID
*000930*1105*U*00401*000000001*0*P*'
GS*IN*SND MB ID*RCV MB ID*20000930*1105*1001*X*004010
ST*810*0001
BIG*20000930*claim#1234567*****60
CUR*SE*USD
REF*RZ*rma#1111
REF*BM*12345678
N1*BT*PURCHASER NAME* 15*1234567
N1*ST**15*1111111
N1*VN*VENDOR NAME* 15*1234567
DTM*011*20000930
IT1*1*25*EA*10.36*NT*IB*1020304050
CTP**SLP*12.95***DIS*.8
PID*F***BOOK OF THE MONTH
TDS*32884
TXI*GS*18.13
TXI*SP*20.72
SAC*C*G830***3099*****06
TXI*GS*2.17
ISS*5*CT*50*KG
CTT*1*25
SE*20*0001
GE*1*1001
IEA*1*000000001



**810 - Version 4010
Invoice (Debit Memo)**

Sample Book Invoice (Debit Memo – markdown in place)

ISA*00* *00* *ZZ*SND MB ID *ZZ*RCV MB ID
*000930*1105*U*00401*000000001*0*P*'
GS*IN*SND MB ID*RCV MB ID*20000930*1105*1001*X*004010
ST*810*0001
BIG*20000930*claim#1234567*****BB
CUR*SE*USD
REF*BB*auth#1111
REF*BM*12345678
N1*BT*PURCHASER NAME* 15*1234567
N1*ST**15*1111111
N1*VN*VENDOR NAME* 15*1234567
IT1*1*25*EA*10.36*NT*IB*1020304050
CTP**SLP*12.95***DIS*.8
PID*F****BOOK OF THE MONTH
SAC*R*E800****2*.5*****05
REF*BB*auth#1112
REF*OI*inv#1234
TDS*138.57
TXI*GS*9.07
ISS*5*CT*50*KG
CTT*1*25
SE*21*0001
GE*1*1001
IEA*1*000000001