

Electronic Data Interchange



810 Invoice ANSI 4010 Implementation Guide

1 Introduction

The mission of Home Hardware Stores Limited, as a dealer-owned company, is to supply our members with quality products and services, assist them with programs to operate effective and efficient stores at a profitable level, allowing them to serve the customer with competitive prices and superior service.

In Order to achieve this mission, we must lower the costs and shorten the time of the supply chain.

To be competitive in the today's retail world requires that a business not only improve its own operating performance but all partners in the supply chain improve their performance. It is the belief of Home Hardware Stores Limited that this can be achieved through improved communications with our business partners.

Home Hardware Stores Limited is committed to the fact that Electronic Data Interchange and other electronic methods can assist in improving these communications.

The next phase for Home Hardware to improve efficiencies is going to be receiving the EDI Invoice (810) with suppliers. Home Hardware is committed to working with you, our suppliers, in developing our relationship to support the electronic Invoice.

This guide should provide you with the information you need to begin the implementation of the 810 with Home Hardware Stores Limited. (Please make sure to send all invoices via EDI including warehouse, direct to store and tag orders.)

Please also see Home Hardware's supplier guide at: <https://www.homehardware.ca/supplier-guide>

2 Implementation with Home Hardware

For any new EDI Trading Partner, the following steps should be done to complete your EDI implementation with Home Hardware Stores Limited.

1. Complete the EDI Supplier Questionnaire (see: section 6) and return to the attention of the EDI Coordinator.
2. Home Hardware's EDI Coordinator will contact you when Home Hardware is prepared to begin the implementation of our EDI trading partner relationship.
3. Meet with or telephone the EDI Coordinator to:
 - Confirm that the Supplier Questionnaire information is still current.
 - Validate that our record of UPC codes for your products is correct (if required).
 - Confirm the EDI format and the content of the business data for the transaction sets being sent or received.
 - Develop contingency plan to send/receive documents in the event of some failure in the system.

2 Implementation with Home Hardware (cont.)

4. Communicate EDI transactions in test mode:
 - Data that is exchanged will have the same format as a "live" EDI transaction, except the ISA15 will contain a "T".
 - Ensure that the receiver, other than to return a Functional Acknowledgement (997) and confirm that the EDI transaction can be received and processed correctly, does not act upon the EDI data.
 - The process will be repeated until both parties are satisfied that the EDI transaction was received, acknowledged and processed successfully.

5. Communicate EDI transactions in parallel mode (if required):
 - The business document is exchanged in both a "live" EDI transaction and through the existing communication method. The ISA15 becomes a "P".
 - The receiver receives, acknowledges and processes the EDI transaction, then compares the results with the existing business document.
 - The process is repeated until both parties are satisfied that the EDI system is operating correctly.

6. EDI transactions are communicated through EDI only
 - The existing method of communicating the business document is discontinued.
 - EDI transactions are exchanged using EDI exclusively.
 - All Functional Acknowledgements should be returned within 1 business day.

Please note that the direct to store and tag for POs will not be transmitted via EDI but the EDI 810 invoice is required.

2 Implementation with Home Hardware (cont.)

For any existing EDI Trading Partner, the following steps should be done to complete your implementation upgrade.

1. Review the following mapping specifications document for version 4010.
2. Communicate EDI transactions in test mode:
 - Data that is exchanged will have the same format as a "live" EDI transaction, except the ISA15 will contain a "T".
 - Ensure that the receiver, other than to return a Functional Acknowledgement (997) and confirm that the EDI transaction can be received and processed correctly, does not act upon the EDI data.
 - The process will be repeated until both parties are satisfied that the EDI transaction was received, acknowledged and processed successfully.
3. EDI transactions are communicated through EDI only
 - EDI transactions are exchanged using EDI exclusively.
 - All Functional Acknowledgements should be returned within 1 business day.
4. **Paper copies of business documents will only be sent if requested by one of the Trading Partners.**

Please note that the direct to store and tag for POs will not be transmitted via EDI but the EDI 810 invoice is required.

3 Invoice Mapping

BIG Segment

(mandatory)

BIG01	Invoice Date	(YYYYMMDD)
BIG02	Invoice Number	Vendor Invoice #
BIG03	Purchase Order Date	(YYYYMMDD)
BIG04	Purchase Order Number	Maximum 22 characters Warehouse Orders- PO# Assigned by Home Hardware Stores Limited. PO#'s will be a maximum of 12 characters, ie: A111A1111AA. If this is too long for your application field, the single alpha character and the ending two alpha characters may be removed, ie: 111A1111. These 9 digits must exist. Direct Orders – PO# assigned by the Home Hardware member store. Should appear exactly as specified by member.
BIG07	Transaction Type Code	DI for Debit Invoice CN for Credit Invoice

Note - **** Invoice #'s should be formatted exactly as they appear on your paper invoices. This will avoid any potential problems with duplicate billings or payments.**

NTE Segment

(optional)

NTE01	Note Reference Code	INV
NTE02	Description	Comments pertaining to entire Invoice. One NTE segment will be accepted for 80 characters.

CUR Segment

(conditional)

CUR01	Currency Qualifier	BY or ZZ
CUR02	Currency Code	USD = US Dollars

Note - **** Optional: Currency Segment is only used when the Currency is not Canadian.**

REF Segment – Credit Invoice Reference

(conditional)

REF01	Reference Qualifier	OI = Original Invoice Number
REF02	Reference Identification	Original Invoice Number this Credit pertains to.

Note - ** **This segment is mandatory if you are sending Credit Invoices electronically.**

REF Segment – Carrier Pro Number

(if available)

REF01	Reference Qualifier	CN = Carrier Pro Number
REF02	Reference Identification	Invoice # Assigned by the Carrier Max. 20 Characters.

REF Segment – Vendor Number

(required)

REF01	Reference Qualifier	IA = Internal Home Hardware Vendor #
REF02	Reference Identification	Vendor # assigned by Home Hardware as it appears in the 850 PO (V#####). Max. 20 Characters.

REF Segment – Packing List Number

(required)

REF01	Reference Qualifier	PK = Packing List Number
REF02	Reference Identification	Packing List # assigned by supplier. Max. 20 Characters.

REF Segment – Return Authorization Number

(conditional)

REF01	Reference Qualifier	RZ = Return Goods Authorization Number
REF02	Reference Identification	RGA # assigned by Home Hardware or the Supplier. Max. 20 Characters.

Note - ** **Only required for Warehouse Credit Invoices if available.**

N1 Segment – Store/Warehouse Location

(mandatory)

N101	Entity Identifier Code	SN = Store Number or Warehouse ID
N103	Identification Qualifier	92 = Assigned by Home Hardware
N104	Identification Code	Store Number or Warehouse Identifier. Please refer to Page 12 for valid ID's.

Note - Store Number listings are available if approved by your Merchandise Manager

N4 Segment – Postal Code Identification

(mandatory)

N403	Postal Code	Store Postal Code. Alpha 6 (A1A1B1) No spaces.
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Note - This will be used to validate the Store # sent in the N104 element above.

N1 Segment – Remit to Identifier

(mandatory)

N101	Entity Identifier Code	RI = Remit To
N103	Identification Qualifier	92 = Assigned by Home Hardware (Vendor# if not otherwise specified)
N104	Identification Code	Code to identify the remittance location.

Note - ** The N104 code will be agreed upon between Home Hardware and the Supplier before sending **any** electronic invoices. This code cannot be changed without notifying Home Hardware or it may result in payments being delayed because of improper supplier identification.

N1 Segment – Ship To Location

(conditional)

N101	Entity Identifier Code	ST = Ship To Location
N103	Identification Qualifier	93 = Assigned by Supplier
N104	Identification Code	Code Assigned by buyer to identify the shipping location. Please refer to Page 12 for valid Ship To ID's.

Note - ** **This segment should only be used when the Ship To Location is different than the Store/Warehouse location.** This segment is only mandatory when you are shipping product to one of the Home Hardware Dealer Support Centres (ordered by a store).

N2 Segment – Ship To Name

(optional)

N201	Name	Ship To Name Information Max. 30 characters.
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N3 Segment – Ship to Address

(optional)

N301	Address	Ship To Address information Max. 35 characters
N302	Address	Ship To Address information Max. 35 characters

N4 Segment – Ship To City, Prov., Postal Code

(optional)

N401	City Name	Ship To City Name
N402	State/Province Code	Ship To Province
N403	Postal Code	Ship To Postal Code

ITD Segment

(mandatory)

ITD01	Terms Type Code	14 = Previously Agreed Upon
ITD03	Terms Discount Percent	Percentage Discount allowed when payed on or before the terms due date or days. Please only show decimals when necessary.
ITD04	Terms Discount Due Date	Date Terms expire (YYYYMMDD)
ITD05	Terms Discount Days Due	Number of Days before Discount Terms expire.
ITD06	Terms Net Due Date	Net Due Date of Invoice (YYYYMMDD).
ITD07	Terms Net Days	Net Days of Invoice.
ITD012	Terms Description	Terms Description. Max. 80 characters.

Note - ** Condition: **If ITD03 is present, then one of ITD04 or ITD05 is required.**

DTM Segment

(mandatory)

DTM01	Date/Time Qualifier	011 = Shipped Date
DTM02	Date	Date product was shipped (YYYYMMDD)

IT1 Segment – Baseline Item Data

(mandatory)

IT102	Quantity Invoiced	Invoice quantity can be up to 99999.9999 with a max. of 4 decimal places.
IT103	Unit Of Measure	Code based on valid X12 values.
IT104	Unit Price	Invoice price can be up to 17 characters with a maximum of 6 decimal places.
IT106	Product ID Qualifier	UP = UPC Item Code
IT107	Product ID	UPC-A Code
IT108	Product ID Qualifier	VN = Supplier's Item Number
IT109	Product ID	Supplier's Item/Catalogue Number Max. of 20 characters.
IT110	Product ID Qualifier	CB = Home Hardware Item Number
IT111	Product ID	Home Hardware's SKU Number Max. of 9 characters.

CTP Segment

(optional)

CTP02	Price Qualifier Code	ALT = Alternate
CTP03	Unit Price	Alternate Unit Price up to 6 decimals.
CTP04	Quantity	Alternate Invoiced Quantity
CTP05	Composite Unit of Measure	Alternate Unit of Measure Code, max. of 2 characters.
CTP06	Price Multiple Qualifier	DIS = Discount Multiplier
CTP07	Multiplier	Multiplier applied to IT1 price Example 65. = 65% of the price in IT104 Ex if IT104 = 15.00 the reduced price = 9.75
CTP08	Monetary Amount	Total Discount Amount for the line.

Note - ** If CTP06 is used, you must send the CTP07. CTP07 and CTP08 will calculate a different line item total which will be shown on the members invoice. Otherwise this segment will be for informational purposes only.

PID Segment

(DC-optional, Tag For & Direct to Store=Mandatory)

PID01	Item Description Type	F = Free Form Description
PID05	Description	Product Description

Note - ** Multiple PID Segments will be handled as additional description. Maximum of 5.
** Mandatory for 'Direct to Store' and 'Tag For' invoices

TDS Segment

(mandatory)

TDS01	Total Invoice Amount	Invoice amount including charges, less allowances, before terms discount.
TDS04	Terms Discount Amount	Amount deductible for Terms discount.

TXI Segment – GST/HST

(conditional)

TXI01	Tax Type Code	GS = GST Tax
TXI02	Monetary Amount	GST/HST Tax Amount
TXI03	Tax Percent	GST/HST Tax Percent
TXI09	Tax Identification Number	GST/HST Registration Number

TXI Segment – QST

(conditional)

TXI01	Tax Type Code	SP or PG = Provincial Tax
TXI02	Monetary Amount	QST Tax Amount
TXI03	Tax Percent	QST Tax Percent
TXI09	Tax Identification Number	QST Registration Number

CAD Segment – Carrier Detail

(mandatory)

CAD01	Transportation Method	H = Customer Pickup, K = Backhaul M = Motor, U = Private Parcel Service
CAD04	SCAC Code	Standard Carrier Alpha Code if available
CAD05	Routing	Originating Carriers Name (35 characters)

** At least one of CAD04 or CAD05 is required.

SAC Segment – Invoice Allowance or Charge

(optional)

SAC01	Allowance/Charge Indicator	A = Allowance, C = Charge
SAC02	Allowance/Charge Code	ZZZZ or any other value.
SAC05	Amount	Amount up to 2 decimal places
SAC15	Description	Free form Description

** The SAC segment is optional. It should only be used for Allowances or Charges that apply to the entire invoice.

CTT Segment

(mandatory)

CTT01	Number of Line Items	Total number of line items on the invoice.
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Warehouse Location Identifiers

Central Dealer Support Centre

Home Hardware Stores Limited
34 Henry Street West
St. Jacobs, Ontario
N0B 2N0

The two valid ID's for St. Jacobs are **2014817930001** or **0001**. These are to be used in the N104 field of either the Ship To or the Sold To Location segments.

Eastern Dealer Support Centre

Home Hardware Stores Limited
Air Industrial Park
336 Lancaster Crescent
Debert, Nova Scotia
B0M 1G0

The two valid ID's for Debert are **2014817930002** or **0002**. These are to be used in the N104 field of either the Ship To or the Sold To Location segments.

Western Dealer Support Centre

Home Hardware Stores Limited
6410-36th Street
Wetaskiwin, Alberta
T9A 3B6

The two valid ID's for Wetaskiwin are **2014817930004** or **0004**. These are to be used in the N104 field of either the Ship To or the Sold To Location segments

4 Invoice Samples

DC Invoice

BIG*20010305*1213456789*20010302*Z103S01234PR***DI~
NTE*INV*Debit Invoice~
CUR**USD~
REF*CN*987654321~
REF*IA*V1234~
REF*PK*123456789~
REF*RZ*987654~
N1*SN**92*2014817930001~
N4***NOB 2N0~
N1*RI**92*V1234~
N1*ST**93*2014817930001~
ITD*14**2*20010415**20010430*****2% 15th month following, net April 30th~
DTM*011*20010305~
IT1**10*EA*1.99**UP*0123456789012*VN*524MK33*CB*001234567~
CTP**ALT*9.99*1*CS~
PID*F****Item Description~
PKG*F*Item Description~
TDS*2343***44~
TXI*GS*1.53*7*****123456789~
CAD*M****Home Truck – St. Jacobs~
SAC*C*ZZZZ***200*****Delivery Charge~
CTT*1~

TAG For Invoice (no EDI PO850)

BIG*20010305*1213456789*20010302*J509-91044W***DI~
NTE*INV*Debit Invoice~
CUR**USD~
REF*CN*987654321~
REF*IA*V1234~
REF*PK*123456789~
REF*RZ*987654~
N1*SN92*1578-8~**
N4***NOB 2N0~
N1*RI**92*V1234~
N1*ST93*2014817930001~**
ITD*14**2*20010415**20010430*****2% 15th month following, net April 30th~
DTM*011*20010305~
IT1**10*EA*1.99**UP*0123456789012*VN*524MK33*CB*001234567~
CTP**ALT*1.29*1*CS*DIS*65~
PID*F****Item Description~
TDS*1598***30~
TXI*GS*1.05*7*****123456789~
CAD*M****Home Truck – St. Jacobs~
SAC*C*ZZZZ***200*****Delivery Charge~
CTT*1~

Direct to Store Credit (No EDI PO850)

BIG*20010305*1213456789*20010302*21-185335***CN~
 NTE*INV*Credit Invoice~
 REF*OI*123456~
 REF*IA*V1234~
 REF*RZ*987654~
 N1*SN**92*1578-8~
 N4***NOB 2N0~
 N1*RI**92*V1234~
 ITD*14**2*20010415**20010430*****2% 15th month following, net April 30th~
 DTM*011*20010305~
 IT1**-10*EA*1.99**UP*0123456789012*VN*524MK33*CB*001234567~
 PID*F****Item Description~
 TDS*-2343***-44~
 TXI*GS*-1.53*7*****123456789~
 SAC*C*ZZZZ***-200*****Delivery Charge~
 CTT*1~

VERIFICATION LIST

Please verify the following before transmitting the invoice tests

- Ensure it passes the X12 standards
- Ensure the store number is present and corresponds to the table below (N1*SN)
- Ensure the remit to ID is present (N1*RI)
- Ensure the vendor number is present (REF*IA)
- If US account ensure the currency is present and is 'USD' (CUR)
- Ensure the terms of payment data corresponds to the invoice date and reflects the one on the PO (ITD)
- If the terms discount percent is present ensure the number of days or date is present (ITD)
- Verify HH's item number, prices and UPCs are present on DSC invoices and correspond to the PO (LIN)
- Ensure tax rates and amounts are present and correspond to the DSC location when tax is required (TXI)
- Ensure the tax registration number is present when tax is required (TXI)
- Ensure the invoice total amount balances with accumulated line subtotals and tax amounts (TDS)
- Ensure the discount amount is present (TDS04)
- Ensure the item description is present for 'Direct to Store' and 'Tag For' invoices (PID)
- Ensure the DSC ID is used as the ship to ID for 'Tag For' orders (N1*ST)

	N1*SN - Store Number	N1*ST – Ship To
Direct to Store ex:18-686069, A410-92826X	Store #	Absent or the Store #
Tag For ex: a206-92876W	Store # or DSC ID	DSC ID
DSC Invoices ex:Z410S08185MK, T408S08973	DSC ID	Absent or the DSC ID

TAX Rates:

St. Jacobs @ 13%
 Debert @ 15%
 Wetaskiwin @ 5%

5 Home Hardware Technical Information

EDI Business and Technical Contact

Home Hardware Stores Limited
34 Henry Street West
St. Jacobs, Ontario
N0B 2N0
Phone: 519-664-4997
Fax: 519-664-3717
E-Mail: hhedi@homehardware.ca

EDI Sender ID: 201481793

Qualifier: 01

Authorization Qualifier: 00

Authorization Information: (blank)

Security Qualifier: 00

Security Information: (blank)

Segment Terminator: 7E (~)

Element Separator: 2A (*)

Sub-Element Separator: 3E (>)

(**Unless otherwise specified**)

Value Added Network: Commport Communications

6 EDI Questionnaire

Company	
Address	
EDI Business Contact	
Phone	
Fax	
E-Mail	
EDI Technical Contact	
Phone	
Fax	
E-Mail	
EDI ID	
Qualifier	
Authorization Qualifier	
Authorization Information	
Security Qualifier	
Security Information	
Segment Terminator	
Element Separator	
Sub-Element Separator	
Value Added Network(s)	
What other EDI documents do you support?	

Please return to: Home Hardware Stores Limited
 Fax: 519-664-3717
 E-Mail: hhedi@homehardware.ca