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## ANSI X12 810 Invoice Specifications

The American National Standards Institute (ANSI) and the Accredited Standards Committee (ASC) define this transaction as follows: “The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.” The 810 Invoice is used to ensure effective billing and invoice matching and payment.

This document lists the accepted ANSI X12 810 Invoice layout used by Medtronic. The ANSI X12 version of the Invoice transaction is **4010**. The 810 Invoice is an inbound transaction that allows Medtronic users to automatically reconcile supplier invoices against their purchase and receipt information.

The following is an example of the typical format used when communicating the ANSI X12 810 transaction set. It is important to note that multiple 810 transaction sets may be contained within each valid X12 file.

### **Header:**

ISA - Interchange Control Header

GS - Functional Group Header

ST - Transaction Set Header

BIG - Beginning Segment for Invoice

NTE - Note/Special Instructions

N1 - Organization Name

N2 - Additional Name Info

N3 - Street Address

N4 - City, State, Zip

PER - Admin. Comm. Contact

ITD - Terms of Sale

DTM - Date/Time Reference

### **Detail**

IT1 - Baseline Item Data (Invoice)

PID - Product/Item Description

### **Total**

TDS - Total Monetary Value Summary

TXI - Tax Information

SAC - Allowance, Charge or Service

CTT - Transaction Totals

SE - Transaction Set Trailer

GE - Functional Group Trailer

IEA - Interchange Control Trailer

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## 810 Invoice Segment Structure by Group / Loop

### Segment/Element Usage Legend:

M = Mandatory segment or element; required for successful Medtronic system processing.

O = Optional segment or element; may be helpful but not required for successful processing.

X = Conditional element; existence is conditional upon another segment or element.

Transaction Set Header	Segment ID	Name	Usage	Max
	<b>ST</b>	Transaction Set Header	M	1
	<b>BIG</b>	Beginning Segment for Invoice	M	1
	<b>NTE</b>	Note/Special Instructions	O	5
<b>N1 Loop</b>	<b>N1</b>	Name of Organization to be Billed	M	1
	<b>N2</b>	Additional Name Information	O	1
	<b>N3</b>	Additional Address Information	O	2
	<b>N4</b>	Geographic Location	O	1
	<b>PER</b>	Administrative Comm. Contact	O	1
	<b>ITD</b>	Terms of Sale	O	5
	<b>DTM</b>	Date/Time Reference	O	10

Line Item Loop	Segment ID	Name	Usage	Max
May repeat 200,000 times	<b>IT1</b>	Baseline Item Data	M	1
<b>PID Loop</b>	<b>PID</b>	Product/Item Description	O	1

Transaction Set Trailer	Segment ID	Name	Usage	Max
	<b>TDS</b>	Total Monetary Value Summary	M	1
	<b>TXI</b>	Tax Information	O	10
	<b>SAC</b>	Allowance, Charge or Service	O	1
	<b>CTT</b>	Transaction Totals	M	1
	<b>SE</b>	Transaction Set Trailer	M	1

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## Segment / Element Detail Information

### Transaction Set Header

#### ST - Transaction Set Header

Indicates the start of the invoice transaction.

**Example:** ST\*810\*89001

Element	Name	Usage	Min/Max Length	Notes
ST-01	Transaction Set Identifier Code	M	3/3	Accepted code(s): '810' - Invoice Identifier
ST-02	Control Number	M	4/9	Should match SE-02.

#### BIG - Beginning Segment for Invoice

**Example:** BIG\*19950506\*8505426\*19950505\*9316006-SBD\*\*\*DR

Element	Name	Usage	Min/Max Length	Notes
BIG-01	Invoice Date	M	8/8	Date in CCYYMMDD format.
BIG-02	Invoice Number	M	1/22	
BIG-03	Purchase Order Date	O	8/8	Date in CCYYMMDD format.
BIG-04	Purchase Order Number	O	1/22	
BIG-05	Purchase Order Release No.	O	1/30	Not Used
BIG-06	Chg. Order. Seq. No.	O	1/8	Not Used
BIG-07	Transaction Type Code	O	2/2	Accepted code(s): 'DR' – Debit Memo

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## NTE - Note/Special Instruction

The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. NTE segments on the header level correspond to the entire invoice.

**Example:** NTE\*GEN\*BILL OF LADING: 26HG95924

Element	Name	Usage	Min/Max Length	Notes
NTE-01	Note Reference Code	M	3/3	Accepted code(s): 'GEN' - Entire transaction set
NTE-02	Description	M	1/80	

## N1 Loop

### N1 - Name to Identify the Organization Invoiced

**Example:** N1\*BT\*COUNTY GENERAL HOSPITAL\*91\*096301005011  
 N1\*SE\*HOSPITAL SUPPLY CO.\*91\*394572347  
 N1\*ST\*COUNTY GENERAL HOSPITAL\*91\*096301005011

Element	Name	Usage	Min/Max Length	Notes
N1-01	Entity ID Code	M	2/2	Accepted code(s): 'ST' - Ship To Party 'BY' - Buying Party 'SE' - Selling Party 'BT' - Bill To Party 'VN' - Vendor
N1-02	Name	X	1/25	
N1-03	ID Code Qualifier	X	1/2	Accepted code(s): '21' - Health Industry ID Number (HIN) '91' - Assigned by Seller '92' - Assigned by Customer
N1-04	ID Code	X	2/7	Client Account Number

### N2 - Additional Name Information

**Example:** N2\*COUNTY GENERAL HOSPITAL RECVEIVING DOCK

Element	Name	Usage	Min/Max Length	Notes
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<b>N2-01</b>	Name	M	1/35	
<b>N2-02</b>	Name	O	1/35	

## N3 - Address Information

**Example:** N3\*1400 HOSPITAL WAY\*SUITE 200

Element	Name	Usage	Min/Max Length	Notes
<b>N3-01</b>	Address	M	1/35	
<b>N3-02</b>	Address	O	1/35	

## N4 - Geographic Location

**Example:** N4\*ARLINGTON HEIGHTS\*IL\*55432

Element	Name	Usage	Min/Max Length	Notes
<b>N4-01</b>	City Name	X	2/19	
<b>N4-02</b>	State/Province Code	O	2/2	
<b>N4-03</b>	Postal Code	O	4/9	

## PER - Administrative Communications Contact

The PER identifies the person to whom administrative communication should be directed.

**Example:** PER\*CR\*MARTHA WILSON\*TE\*8009550725

Element	Name	Usage	Min/Max Length	Notes
<b>PER-01</b>	Contact Function Code	M	2/2	Accepted code(s): 'CR' - Customer Relations 'AR' - Accounts Receivable Department 'OC' - Order Contact
<b>PER-02</b>	Name	O	1/35	
<b>PER-03</b>	Communication Number Qualifier	X	2/2	Accepted code(s): 'TE' - Telephone
<b>PER-04</b>	Communication Number	X	7/25	

## ITD - Terms of Sale

**Example:** ITD\*01\*3\*\*\*\*\*30

Element	Name	Usage	Min/Max Length	Notes
<b>ITD-01</b>	Terms Type Code	O	2/2	Accepted code(s): '01' - Basic

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				'ZZ' – Mutually Defined '05' – Discount not Applicable
<b>ITD-02</b>	Terms Basis Date Code	O	1/2	Accepted code(s): '3' - Invoice Date
<b>ITD-03</b>	Terms Discount Percentage	O	1/6	
<b>ITD-04</b>	Terms Discount Due Date	X	8/8	Date in CCYYMMDD format.
<b>ITD-05</b>	Terms Discount Days Due	X	1/3	
<b>ITD-06</b>	Terms Net Due Date	O	8/8	Date in CCYYMMDD format.
<b>ITD-07</b>	Terms Net Days	O	1/3	
<b>ITD-08</b>	Terms Discount Amount	O	1/10	

## DTM - Date/Time Reference

**Example:** DTM\*011\*19970506\*1207

Element	Name	Usage	Min/Max Length	Notes
<b>DTM-01</b>	Date/Time Qualifier	M	3/3	Accepted code(s): '011' - Shipped
<b>DTM-02</b>	Date	X	8/8	Date in CCYYMMDD format.
<b>DTM-03</b>	Time	X	4/8	

**Line Item Loop:** May repeat 200,000 times

## IT1 - Baseline Item Data

To specify the basic and most frequently used line item data for the invoice.

**Example:** IT1\*1\*6\*CS\*8.99\*\*VC\*001371390919\*BP\*1062

Element	Name	Usage	Min/Max Length	Notes
<b>IT1-01</b>	Assigned Identifier	O	1/5	Purchase Order Line Number
<b>IT1-02</b>	Quantity Invoiced	M	1/10	
<b>IT1-03</b>	Unit of Measure Code	M	2/2	
<b>IT1-04</b>	Unit Price	M	1/14	
<b>IT1-05</b>	Basis Unit Price Code	O	2/2	Not Used
<b>IT1-06</b>	Product/Service ID Qualifier	O	2/2	*Accepted code(s): 'VC' - Vendor's Catalog Number 'MG' - Manufacturer's

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				Catalog Number
<b>IT1-07</b>	Product/Service ID	X	1/16	If either 06 or 07 is present, the other is required.
<b>IT1-08</b>	Product/Service ID Qualifier	O	2/2	If either 08 or 09 is present, the other is required.
<b>IT1-09</b>	Product/Service ID	X	1/16	
<b>IT1-10</b>	Product/Service ID Qualifier	O	2/2	If either 10 or 11 is present, the other is required.
<b>IT1-11</b>	Product/Service ID	X	1/16	
<b>IT1-12</b>	Product/Service ID Qualifier	O	2/2	If either 12 or 13 is present, the other is required.
<b>IT1-13</b>	Product/Service ID	X	1/16	
<b>IT1-14</b>	Product/Service ID Qualifier	O	2/2	If either 14 or 15 is present, the other is required.
<b>IT1-15</b>	Product/Service ID	X	1/16	
<b>IT1-16</b>	Product/Service ID Qualifier	O	2/2	If either 16 or 17 is present, the other is required.
<b>IT1-17</b>	Product/Service ID	X	1/16	
<b>IT1-18</b>	Product/Service ID Qualifier	O	2/2	If either 18 or 19 is present, the other is required.
<b>IT1-19</b>	Product/Service ID	X	1/16	
<b>IT1-20</b>	Product/Service ID Qualifier	O	2/2	If either 20 or 21 is present, the other is required.
<b>IT1-21</b>	Product/Service ID	X	1/16	

**\*Note:** Medtronic that either the Vendor Catalog number or the Manufacturer's Catalog number be returned.

Qualifier	ANSI Definition	McKessonHBOC Definition	Max. Length
MF	Manufacturer	Manufacturer LIC	4
MG	Manufacturer's Part Number	Manufacturer Catalog Number	16
VC	Vendor's (seller's) Catalog Number	Vendor Catalog Number	16
BP	Buyer's Part Number	Buyer Part (Item Number)	5
IN	Buyer's Item Number	Item Number (Hospital Number)	10
SN	Serial Number	Serial Number	15

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## PID - Product/Item Description

**Example:** PID\*F\*\*\*\*PCD Tachy Generator

Element	Name	Usage	Min/Max Length	Notes
<b>PID-01</b>	Item Description Type	M	1/1	Accepted code(s): 'F' - Free-form
PID-02	Product/Process Char. Code	O	2/3	Not Used
PID-03	Agency Qualifier Code	X	2/2	Not Used
PID-04	Product Description Code	X	1/12	Not Used
<b>PID-05</b>	Description	X	1/80	If PID-01 = F, 05 is required.
PID-06	Surface/Layer/Position Code	O	2/2	Not Used

## Transaction Set Trailer

## TDS - Total Monetary Value Summary

**Example:** TDS\*24336

Element	Name	Usage	Min/Max Length	Notes
<b>TDS-01</b>	Total Invoice Amount	M	1/10	TDS-01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
<b>TDS-02</b>	Amount Subject to Terms Discount	X	1/10	TDS-02 indicates the amount upon which the terms discount amount is calculated. TDS-02 is required if the dollar value subject to discount is not equal to the dollar value of TDS-01.
<b>TDS-03</b>	Discounted Amount Due	O	1/10	
<b>TDS-04</b>	Terms Discount Amount	O	1/10	

## TXI - Tax Information

**Example:** TXI\*LS\*23.41

Element	Name	Usage	Min/Max	Notes
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			Length	
<b>TXI-01</b>	Tax Type Code	M	2/2	Accepted code(s): 'CT' - County Tax 'CS' - City Sales Tax 'FT' - Federal Tax 'LS' - State and Local Sales Tax 'LT' - Local Tax 'ST' -State Sales Tax
<b>TXI-02</b>	Monetary Amount of Tax	X	1/15	If TXI-02 is not used, the application of the percent (TXI-03) is agreed on between trading partners.
TXI-03	Percent (expressed as decimal)	X	1/10	Not Used
TXI-04	Tax Jurisdiction Code Qualifier	X	2/2	Not Used
TXI-05	Tax Jurisdiction Code	X	1/10	Not Used
TXI-06	Tax Exempt Code	X	1/1	Not Used

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## SAC - Allowance, Charge or Service

**Example:** SAC\*C\*D240\*\*\*100

Element	Name	Usage	Min/Max Length	Notes
<b>SAC-01</b>	Allowance/Charge Identifier	M	1/1	Accepted code(s): 'A' - Allowance 'C' - Charge
<b>SAC-02</b>	Service, Promotion, Allowance or Charge Code	X	4/4	Accepted code(s): 'C040' - Delivery 'D240' - Freight 'H850' - Tax All other codes accepted, but are presented to the user as miscellaneous.
<b>SAC-05</b>	Amount (Promotion, Allowance or Charge Total Amount)	O	1/15	SAC-05 is the total amt. for the service, promotion, allowance or charges. If SAC-05 is present with SAC-07 or 08, then SAC-05 takes precedence.
<b>SAC-06</b>	Allowance Charge Percent Qualifier	X	1/1	If SAC-06 or 07 is present, the other is required.

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<b>SAC-07</b>	Allowance or Charge Percentage	X	1/6	
<b>SAC-08</b>	Allowance Charge Rate	O	1/9	SAC-08 is the allowance or charge rate per unit.
<b>SAC-09</b>	Unit of Measurement Code	X	2/2	If SAC-09 or 10 is present, the other is required.
<b>SAC-10</b>	Quantity	X	1/15	SAC-10 and 11 is the quantity basis when the allowance or charge quantity is different from the PO or Invoice quantity.

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## CTT - Transaction Totals

**Example:** CTT\*1\*1000

Element	Name	Usage	Min/Max Length	Notes
<b>CTT-01</b>	Number of Line Items	M	1/6	
<b>CTT-02</b>	Hash Total	O	1/10	

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## SE - Transaction Set Trailer

Example: SE^34^89001

Element	Name	Usage	Min/Max Length	Notes
SE-01	Number of Segments Included	M	1/6	The number of segments between ST and SE inclusive.
SE-02	Transaction Set Control No.	M	4/9	Same as ST-02

### Sample Data:

ISA\*00\* \* 00\* \*ZZ\*5489002 \*01\*197607336 \*980710\*154 9\*U\*00400\*191154908\*0\*P|  
 GS\*PO\*5489002\*197607336\*980710\*1549\*191154909\*X\*004010  
 ST\*810\*89001  
 BIG\*19950506\*8505426\*19950505\*9316006-SBD\*\*\*DR  
 NTE\*GEN\*BILL OF LADING: 26HG95924  
 N1\*BT\*COUNTY GENERAL HOSPITAL\*91\*096301005011  
 N1\*SE\*HOSPITAL SUPPLY CO.\*91\*394572347  
 N1\*ST\*COUNTY GENERAL HOSPITAL\*91\*096301005011  
 N2\*COUNTY GENERAL HOSPITAL RECVEIVING DOCK  
 N3\*1400 HOSPITAL WAY\*SUITE 200  
 N4\*ARLINGTON HEIGHTS\*IL\*60005  
 PER\*CR\*MARTHA WILSON\*TE\*8009550725  
 ITD\*01\*3\*\*\*\*\*30  
 DTM\*011\*19970506\*1207  
 IT1\*1\*6\*CS\*8.99\*\*VC\*001371390919\*BP\*1062  
 PID\*F\*\*\*\*PCD TACHY GENERATOR  
 TDS\*24336  
 TXI\*LS\*23.41  
 SAC\*C\*D240\*\*\*100  
 CTT\*1\*1000  
 SE\*34\*89001  
 GE\*1\*191154909  
 IEA\*1\*191154908