



The Store  
With Aloha®  
HAWAII • GUAM • SAIPAN • LAS VEGAS



# 810

## INVOICE

### Functional Group - IN

This X12 Transaction Set contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. 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.

### Interchange Header:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>
010	ISA	Interchange Control Header	M	1	
020	GS	Functional Group Header	M	1	

### Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>
010	ST	Transaction Set Header	M	1	
020	BIG	Beginning Segment for Invoice	M	1	
040	CUR	Currency	O	1	
050	REF	Reference Identification	M	12	

LOOP ID - N1			200		
070	N1	Party Identification	M	1	
090	N3	Party Location	O	2	
100	N4	Geographic Location	O	1	
130	ITD	Terms of Sale	M	>1	
140	DTM	Date/Time Reference	O	10	

### Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>
LOOP ID - IT1			200000		
010	IT1	Baseline Item Data (Invoice)	M	1	
040	TXI	Tax Information	O	>1	
060	PID	Product/Item Description	M	1000	
120	REF	Reference Information	O	>1	
180	SAC	Allowance or Charge Information	O	>1	



*The Store  
With Aloha*  
HAWAII • GUAM • SAIPAN • LAS VEGAS



### ***Summary:***

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>
010	TDS	Total Monetary Value Summary	M	1	
020	TXI	Tax Information	O	>1	
040	SAC	Allowance and Charge Information	O	>1	
070	CTT	Transaction Totals	O	1	

### ***Interchange Trailer:***

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>
010	GE	Functional Group Trailer	M	1	
020	IEA	Interchange Control Trailer	M	1	



Delimiters being used:

- Element: \*
- Segment: ~
- Sub-Element/Component: >

Encoding being used:

- UTF-8



The Store  
With  
*Aloha*  
HAWAII • GUAM • SAIPAN • LAS VEGAS



## ISA - Interchange Control Header Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
ISA01	101	Authorization Information Qualifier	M	ID	2/2	'00'
ISA02	102	Authorization Information	M	AN	10/10	10 Blanks
ISA03	103	Security Information Qualifier	M	ID	2/2	'00'
ISA04	104	Security Information	M	AN	10/10	10 Blanks
ISA05	105	Sender ID Qualifier	M	ID	2/2	Sender ID Qualifier
ISA06	106	Sender ID	M	AN	15/15	Sender ID
ISA07	107	Receiver ID Qualifier	M	ID	2/2	Receiver ID Qualifier
ISA08	108	Receiver ID	M	AN	15/15	Receiver ID
ISA09	109	Date	M	DT	6/6	YYMMDD Format
ISA10	110	Time	M	TM	4/4	HHMM Format
ISA11	165	Control Standard	M		1/1	'^'
ISA12	111	Control Version	M	ID	5/5	'00501'
ISA13	112	Interchange Control Number	M	N0	9/9	Sequential number assigned by vendor
ISA14	113	Acknowledgement Requested	M	ID	1/1	'0' - No '1' - Yes
ISA15	114	Test Indicator	M	ID	1/1	'T' - Test 'P' - Production
ISA16	115	Sub-Element	M		1/1	'>'

## GS - Functional Group Header Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
GS01	479	Functional ID	M	ID	2/2	IN
GS02	142	Sender ID	M	AN	2/15	Sender ID
GS03	124	Receiver ID	M	AN	2/15	Receiver ID
GS04	373	Date	M	DT	8/8	CCYYMMDD Format
GS05	337	Time	M	TM	4/8	HHMM, HHMMSS, or HHMMSSDD format
GS06	28	Group Control Number	M	N0	1/9	Sequential number assigned by vendor
GS07	455	Agency Code	M	ID	1/1	'X'
GS08	480	Version	M	AN	1/12	'005010'



**ST - Transaction Set Header**  
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
ST01	143	Transaction Set Identifier Code	M	ID	3/3	'810' – Invoice
ST02	329	Transaction Set Control Number	M	AN	4/9	Assigned by Sender

**BIG - Beginning Segment for Invoice**  
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
BIG01	373	Date	M	DT	8/8	Invoice Date
BIG02	76	Invoice Number	M	AN	1/22	Invoice #
BIG03	373	Date	C	DT	8/8	PO Date
BIG04	324	Purchase Order Number	C	AN	1/22	PO #

\*BIG03 and BIG04 are required when there is an originating PO from ABC Stores

**CUR - Currency**  
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
CUR01	98	Entity Identifier Code	M	ID	2/3	'BY' – Buying Party
CUR02	100	Currency Code	M	ID	3/3	Any valid X12 code



**REF - Reference Information**  
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
REF01	128	Reference Identification Qualifier	M	ID	2/3	'2I' – Tracking Number (Optional) 'BM' – Bill of Lading Number (Optional) 'CN' – Carrier's Reference Number (Optional) 'IA' – Internal Vendor Number (Mandatory)
REF02	127	Reference Identification	M	AN	1/30	

**N1 - Party Identification**  
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
N101	98	Entity Identifier Code	M	ID	2/3	'ST' – Ship To (Mandatory) 'BT' – Bill To (Mandatory) 'RI' – Remit To (Optional)
N102	93	Name	M	AN	1/60	*Not used for N1*BT
N103	66	Identification Code Qualifier	C	ID	1/2	'92' – Assigned by Buyer or Buyer's Agent
N104	67	Identification Code	C	AN	2/80	
*N103/04 mandatory for N1*ST						

**N3 - Address Information (Loop N1)**  
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
N301	166	Address Information	M	AN	1/55	Address 1
N302	166	Address Information	O	AN	1/55	Address 2



*The Store With Aloha*  
HAWAII • GUAM • SAIPAN • LAS VEGAS



**N4 - Geographic Location (Loop N1)**  
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
N401	19	City Name	M	AN	2/30	City Name
N402	156	State or Province Code	O	ID	2/2	State or Province Code
N403	116	Postal Code	M	ID	3/15	Zip Code
N404	26	Country Code	O	ID	2/3	Country

**ITD - Terms of Sale**  
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
ITD03	338	Terms Discount Percent	M	R	1/6	
ITD05	351	Terms Discount Days Due	M	N0	1/3	
ITD07	386	Terms Net Days	M	N0	1/3	
ITD12	352	Description	O	AN	1/80	Terms Description

**DTM - Date/Time Reference**  
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
DTM01	374	Date/Time Qualifier	M	ID	3/3	'011' - Ship Date '035' - Delivered
DTM02	373	Date	M	DT	8/8	Ship Date



The Store  
With Aloha®  
HAWAII • GUAM • SAIPAN • LAS VEGAS



**IT1 - Baseline Item Data (Invoice)**  
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
IT101	350	Assigned Identification	M	AN	1/20	Line #  *Must match value sent on 850 in PO101
IT102	358	Quantity Invoiced	M	R	1/15	Quantity Invoiced
IT103	355	Unit or Basis for Measurement Code	M	ID	2/2	'CA' – Case 'EA' – Each 'LB' – Pound 'PK' – Package
IT104	212	Unit Price	M	R	1/17	Unit Price
IT106	235	Product/Service ID Qualifier	C	ID	2/2	'UP' – UPC or 'VN' – Vendor Item Number
IT107	234	Product/Service ID	C	AN	1/48	UPC # or Vendor Item #
IT108	235	Product/Service ID Qualifier	C	ID	2/2	'UP' – UPC or 'VN' – Vendor Item Number
IT109	234	Product/Service ID	C	AN	1/48	UPC # or Vendor Item #
IT110	235	Product/Service ID Qualifier	O	ID	2/2	'SK' – Stock Keeping Unit (SKU)
IT111	234	Product/Service ID	O	AN	1/48	ABC Store's SKU #
*At least one of IT106/07 or IT108/09 is required						

**TXI - Tax Information (Loop IT1)**  
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Values/Comments
TXI01	963	Tax Type Code	M	ID	2/2	'CP' – County/Parish Sales Tax 'GS' – Goods and Services Tax (Used for County Excise Tax) 'SE' – State Excise Tax
TXI02	782	Monetary Amount	M	R	1/18	



The Store  
With Aloha®  
HAWAII • GUAM • SAIPAN • LAS VEGAS



**PID - Product/Item Description (Loop IT1)**  
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Values/Comments
PID01	349	Item Description type	M	ID	1/1	'F' – Free-form
PID02	750	Product/Process Characteristic Code	M	ID	2/3	'08' – Buyer Product Description (Mandatory) '91' – Buyer's Item Size Description (Optional)
PID05	352	Description	M	AN	1/80	Item Description

**REF - Reference Information (Loop IT1)**  
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
REF01	128	Reference Identification Qualifier	M	ID	2/3	'CT' – Contract Number 'Q1' – Quote Number 'SE' – Serial Number
REF02	127	Reference Identification	M	AN	1/30	

**SAC - Allowance or Charge Information (Loop IT1)**  
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	'A' - Allowance 'C' – Charge
SAC02	1300	Allowance or Charge Code	M	ID	4/4	'B570' – Container Deposits 'C110' – Deposit 'C310' - Discount
SAC05	610	Amount	M	N2	1/15	
SAC15	352	Description	M	AN	1/80	



**TDS - Total Monetary Value Summary (Summary)**  
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
TDS01	610	Amount	M	N2	1/15	Invoice total +/- allowances, charges, and taxes
TDS02	610	Amount	M	N2	1/15	Merchandise Total upon which terms discount applied
TDS03	610	Amount	O	N2	1/15	Amount due with terms discount applied if paid by terms discount date
TDS04	610	Amount	O	N2	1/15	Total terms discount

**TXI - Tax Information**  
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
TXI01	963	Tax Type Code	M	ID	2/2	'CP' – County/Parish Sales Tax 'GS' – Goods and Services Tax (Used for County Excise Tax) 'SE' – State Excise Tax
TXI02	782	Monetary Amount	M	R	1/18	



*The Store  
With Aloha*  
HAWAII • GUAM • SAIPAN • LAS VEGAS



**SAC - Allowance or Charge Information (Summary)**  
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	'A' - Allowance 'C' - Charge
SAC02	1300	Allowance or Charge Code	M	ID	4/4	'B570' - Container Deposits 'B950' - Damaged Merchandise 'C110' - Deposit 'C310' - Discount 'C680' - Environmental Protection Services 'D240' - Freight 'D260' - Fuel Charge 'D500' - Handling 'F800' - Promotional Allowance
SAC05	610	Amount	M	N2	1/15	
SAC15	352	Description	O	AN	1/80	



**CTT - Transaction Totals (Summary)**  
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
CTT01	354	Number of Line Items	M	N0	1/6	Total number of IT1 segments

**SE - Transaction Set Trailer**  
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
SE01	96	Number of Included Segments	M	N0	1/10	Number of included segments contained on 810. From and Including ST and SE.
SE02	329	Transaction Set Control Number	M	AN	4/9	Same as ST02

**GE - Functional Group Trailer**  
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
GE01	97	Number of Transaction Sets Included	M	ID	1/6	Number of Transaction Sets Included in the Functional Group
GE02	28	Group Control Number	M	AN	1/9	Sequential Number Assigned by Vendor

**IEA - Interchange Control Trailer**  
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
IEA01	116	Number of Functional Groups Included	M	N0	1/5	Number of Functional Groups Included in transmission
IEA02	112	Interchange Control Number	M	N0	9/9	Sequential Number Assigned by Vendor



The Store  
With Aloha®  
HAWAII • GUAM • SAIPAN • LAS VEGAS



### SEGMENT USAGE EXAMPLES

```

ISA*00*      *00*      *ZZ*SENDER      *12*RECEIVER      *240405*0955**A*00501*000000001*0*P*>~
GS*IN*SENDER*RECEIVER*20240405*0955*1*X*005010~
ST*810*0001~
BIG*20240405*INV001*20240404*PO100~
CUR*BY*USD~
REF*BM*1X234567890~
REF*IA*VENDNUM~
N1*ST*ST Name*92*ST Code~
N3*ST Address1*ST Address 2~
N4*ST City*PA*16066*US~
N1*BT*BT Name*92*BT Code~
N3*BT Address 1*BT Address2~
N4*BT City*PA*16007*US~
N1*RI*RI Name*92*RI Code~
N3*RI Address 1*RI Address 2~
N4*RI City*PA*15678*US~
ITD***2**10**30****2% 10 Net 30~
DTM*011*20240408~
DTM*035*20240410~
IT1*1*50*CA*5.97**VN*111222*UP*123456789012*SK*333444~
TXI*GS*1.25~
PID*F*08***Item Description 1~
PID*F*91***Size 1~
REF*CT*CONTRACT1~
REF*Q1*QUOTE1~
REF*SE*SERIAL1~
SAC*A*C310***345~
IT1*2*5*CA*1.97**VN*555666*UP*345678901234*SK*777888~
TXI*GS*3.45~
PID*F*08***Item Description 2~
PID*F*74***Size 2~
REF*CT*CONTRACT2~
REF*Q1*QUOTE2~
REF*SE*SERIAL2~
TDS*33787*12345*10034*2389~
TXI*ZZ*6.89~
SAC*C*D240***1500~
CTT*2~
SE*37*0001~
GE*1*1~
IEA*1*000000001~

```