

# 810 Invoice

Functional Group ID=**IN**

## Introduction:

This Draft Standard for Trial Use 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.

## Notes:

**THIS TRANSACTION SET WILL BE UTILIZED FOR NON-PRODUCTION (MRO) PARTS, AFTERMARKET (PDC) PARTS, AND SHIP DIRECT (SSM PROGRAM) PARTS, AS WELL AS, PRODUCTION PARTS THAT ARE NOT INCLUDED IN THE ERS PROCESS.**

## Heading:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
2	010	ST	Transaction Set Header	M	1		
3	020	BIG	Beginning Segment for Invoice	M	1		
LOOP ID - N1						200	
4	070	N1	Name	M	1		
5	110	REF	Reference Identification	M	12		
6	140	DTM	Date/Time Reference	O	10		

## Detail:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - IT1						200000	
7	010	IT1	Baseline Item Data (Invoice)	M	1		
LOOP ID - SAC						25	
8	180	SAC	Service, Promotion, Allowance, or Charge Information	O	1		

## Summary:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
10	010	TDS	Total Monetary Value Summary	M	1		
11	070	CTT	Transaction Totals	M	1		n1
12	080	SE	Transaction Set Trailer	M	1		

## Transaction Set Notes

- Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Syntax Notes:**  
**Semantic Notes:** 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set <i>810 Invoice</i>	M ID 3/3
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

**Segment:** **BIG** Beginning Segment for Invoice  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

**Syntax Notes:**

- Semantic Notes:**
- 1 BIG01 is the invoice issue date.
  - 2 BIG03 is the date assigned by the purchaser to purchase order.
  - 3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

- Comments:**
- 1 BIG07 is used only to further define the type of invoice when needed.

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BIG01	373	Date Date expressed as CCYYMMDD	M DT 8/8
M	BIG02	76	Invoice Number Identifying number assigned by issuer	M AN 1/12
M	BIG04	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser	M AN 9/9
R	BIG05	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O AN 1/9
			<b>MANDATORY FOR SHIP-DIRECT ORDERS ONLY. SHOULD REPRESENT THE DEALER PURCHASE ORDER NUMBER THAT IS RECEIVED EITHER VERBALLY OR VIA FAX AS PART OF THE SHIP-DIRECT PROGRAM WHERE THE PRODUCT IS ORDERED DIRECTLY BY THE DEALER AND SHIPPED DIRECTLY TO THE DEALER. [SHIP-DIRECT ORDERS have a po# prefix of SM, SE, SP or SS]</b>	
	BIG07	640	Transaction Type Code Code specifying the type of transaction <i>CI Consolidated Invoice</i>	O ID 2/2

**Segment:** **N1** Name  
**Position:** 070  
**Loop:** N1 Mandatory  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.  
 2 N105 and N106 further define the type of entity in N101.

**Data Element Summary**

Ref.	Data Element	Name	Attributes
M	N101	Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		<b>TO IDENTIFY THE SUPPLIER ONE OF THE FOLLOWING IS ACCEPTABLE</b>	
		<i>SF</i> Ship From	
		<i>ST</i> Ship To	
N102	93	Name	X AN 1/35
		Free-form name	
N103	66	Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		92 Assigned by Buyer or Buyer's Agent	
N104	67	Identification Code	X AN 2/9
		Code identifying a party or other code	
		<b>'ST' WILL ASSUME THE MACK PLANT LOCATION CODE OR DISTRIBUTOR /DEALER CODE</b>	
		<b>'SF' WILL ASSUME THE SUPPLIER NINE DIGIT SUPPLIER CODE</b>	

**Segment:** **REF** Reference Identification  
**Position:** 110  
**Loop:** N1 Mandatory  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 12  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 REF04 contains data relating to the value cited in REF02.

**Comments:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	REF01 128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
		<b>MACK REQUIRES THAT EVERY ELECTRONIC INVOICE            HAVE A PACKING LIST/SHIPMENT ID NUMBER. (SEE 'PK'            REF IDENTIFIER BELOW)</b>	
		<i>BM</i> Bill of Lading Number	
		<i>PD</i> Promotion/Deal Number	
		<b>TO BE USED BY TRADING PARTNER            AGREEMENT WHEN DETERMINING PRICING            LEVELS RELATED TO THE SALES            MERCHANDISER (SSM) PROGRAM</b>	
		<i>PK</i> Packing List Number	
		<b>FOR INVOICE MATCHING PURPOSES, MACK            REQUIRES THAT THE PACKING NUMBER BE            INCLUDED ON EVERY INVOICE TRANSACTION</b>	
	REF02 127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

**Segment:** **DTM** Date/Time Reference  
**Position:** 140  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
		006	<i>Sold</i>	
			<b>TO BE USED SPECIFICALLY FOR THE SALES MERCHANDISER (SSM) PROGRAM WHEN DETERMINED AND REQUIRED BY TRADING PARTNER AGREEMENT</b>	
		008	<i>Purchase Order Received</i>	
			<b>TO BE USED SPECIFICALLY FOR THE SALES MERCHANDISER (SSM) PROGRAM WEN DETERMINED AND REQUIRED BY TRADING PARTNER AGREEMENT</b>	
		011	<i>Shipped</i>	
		016	<i>Promotion End</i>	
			<b>TO BE USED SPECIFICALLY FOR THE SALES MERCHANDISER (SSM) PROGRAM WHEN DETERMINED AND REQUIRED BY TRADING PARTNER AGREEMENT</b>	
	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

**Segment:** **IT1** **Baseline Item Data (Invoice)**  
**Position:** 010  
**Loop:** IT1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify the basic and most frequently used line item data for the invoice and related transactions

- Syntax Notes:**
- 1 If any of IT102 IT103 or IT104 is present, then all are required.
  - 2 If either IT106 or IT107 is present, then the other is required.
  - 3 If either IT108 or IT109 is present, then the other is required.
  - 4 If either IT110 or IT111 is present, then the other is required.
  - 5 If either IT112 or IT113 is present, then the other is required.
  - 6 If either IT114 or IT115 is present, then the other is required.
  - 7 If either IT116 or IT117 is present, then the other is required.
  - 8 If either IT118 or IT119 is present, then the other is required.
  - 9 If either IT120 or IT121 is present, then the other is required.
  - 10 If either IT122 or IT123 is present, then the other is required.
  - 11 If either IT124 or IT125 is present, then the other is required.

- Semantic Notes:**
- 1 IT101 is the purchase order line item identification.
- Comments:**
- 1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
  - 2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

#### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
IT102	358	<b>Quantity Invoiced</b> Number of units invoiced (supplier units)	X R 1/10
IT103	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <i>EA</i> <i>Each</i>	X ID 2/2
IT104	212	<b>Unit Price</b> Price per unit of product, service, commodity, etc.	X R 1/11
IT105	639	<b>Basis of Unit Price Code</b> Code identifying the type of unit price for an item <i>CT</i> <i>Contract</i>	O ID 2/2
IT106	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <i>BP</i> <i>Buyer's Part Number</i>	X ID 2/2
IT107	234	<b>Product/Service ID</b> Identifying number for a product or service <b>Mack part number.</b>	X AN 1/25

**Segment:** SAC Service, Promotion, Allowance, or Charge Information  
**Position:** 180  
**Loop:** SAC Optional (Recommended)  
**Level:** Detail  
**Usage:** Optional (Recommended)  
**Max Use:** 1  
**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

- Syntax Notes:**
- 1 At least one of SAC02 or SAC03 is required.
  - 2 If either SAC03 or SAC04 is present, then the other is required.
  - 3 If either SAC06 or SAC07 is present, then the other is required.
  - 4 If either SAC09 or SAC10 is present, then the other is required.
  - 5 If SAC11 is present, then SAC10 is required.
  - 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
  - 7 If SAC14 is present, then SAC13 is required.
  - 8 If SAC16 is present, then SAC15 is required.

- Semantic Notes:**
- 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
  - 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
  - 3 SAC08 is the allowance or charge rate per unit.
  - 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
  - 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
  - 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
  - 7 SAC16 is used to identify the language being used in SAC15.

- Comments:**
- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
  - 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	SAC01	248 Allowance or Charge Indicator	M ID 1/1
		Code which indicates an allowance or charge for the service specified	
		<i>C Charge</i>	
	SAC02	1300 Service, Promotion, Allowance, or Charge Code	X ID 4/4
		Code identifying the service, promotion, allowance, or charge	
		<i>A010 Absolute Minimum Charge</i>	
		<i>B750 Core Charge</i>	
		<i>C040 Delivery</i>	
		<i>D230 Freight Surcharge</i>	
		<i>D240 Freight</i>	
		<i>D340 Goods and Services Charge</i>	
		<i>D760 Income Freight (Manufacturing to Shipping Point)</i>	
		<i>E820 Non-returnable Containers</i>	
		<i>F150 Packaging Service</i>	
		<i>F155 Packaging</i>	
		<i>G510 Returnable Container</i>	



<i>H090</i>	<i>Special Handling</i>
<i>H110</i>	<i>Special Packaging</i>
<i>H550</i>	<i>Surcharge</i>
<i>H680</i>	<i>Tax - Governmental</i>
<i>H750</i>	<i>Tax - Sales Tax (State and Local)</i>
<i>H770</i>	<i>Tax - State Tax</i>
<i>H790</i>	<i>Tax - Use Tax</i>
<i>H850</i>	<i>Tax</i>
<i>I090</i>	<i>Tool Charge</i>

**Segment:** **TDS** Total Monetary Value Summary  
**Position:** 010  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify the total invoice discounts and amounts  
**Syntax Notes:**  
**Semantic Notes:**

- 1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
- 2 TDS02 indicates the amount upon which the terms discount amount is calculated.
- 3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
- 4 TDS04 indicates the total amount of terms discount.

**Comments:**

- 1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	TDS01	610	Amount	M N2 1/15
			Monetary amount	
			<b>2 positions for decimal assumed (do not include decimal.)</b>	

**Segment:** **CTT** Transaction Totals  
**Position:** 070  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit a hash total for a specific element in the transaction set  
**Syntax Notes:**

- 1 If either CTT03 or CTT04 is present, then the other is required.
- 2 If either CTT05 or CTT06 is present, then the other is required.

**Semantic Notes:**  
**Comments:**

- 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354 Number of Line Items	M N0 1/6
		Total number of line items in the transaction set	

**Segment:** **SE** Transaction Set Trailer  
**Position:** 080  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:**

**Semantic Notes:**

**Comments:** 1 SE is the last segment of each transaction set.

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9