



810 Invoice

X12/V5010/810 : 810 Invoice

Company:	KeHE Distributors
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810**Invoice****Functional Group=IN**

Purpose: 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.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
0100	ST	Transaction Set Header	M	1			Must use
0200	BIG	Beginning Segment for Invoice	M	1			Must use
0300	NTE	Note/Special Instruction	O	100			Used
0500	REF	Reference Information	O	12			Used
LOOP ID - N1					200		
0700	N1	Party Identification	O	1			Must use
0900	N3	Party Location	O	2			Must use
1000	N4	Geographic Location	O	1			Must use
1300	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Must use
1400	DTM	Date/Time Reference	O	10			Must use
1500	FOB	F.O.B. Related Instructions	O	1			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - IT1					200000		
0100	IT1	Baseline Item Data (Invoice)	O	1			Must use
0300	IT3	Additional Item Data	O	5			Used
0500	CTP	Pricing Information	O	25			Used
LOOP ID - PID					1000		
0600	PID	Product/Item Description	O	1			Must use
1000	PO4	Item Physical Details	O	1			Used
LOOP ID - SAC					1		
1800	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
0100	TDS	Total Monetary Value Summary	M	1			Must use
0300	CAD	Carrier Details	O	1			Used
LOOP ID - SAC					>1		
0400	SAC	Service, Promotion, Allowance, or Charge Information	O	>1			Must use
LOOP ID - ISS					1		
0600	ISS	Invoice Shipment Summary	O	1			Must use
0700	CTT	Transaction Totals	O	1		N3/0700	Must use
0800	SE	Transaction Set Trailer	M	1			Must use

Notes:

3/0700 Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used CTT02 is the hash total of the quantities invoiced (IT102) for each IT1 segment.

ST Transaction Set Header

Pos: 0100	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To indicate the start of a transaction set and to assign a control number

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use
Description: Code uniquely identifying a Transaction Set						
Code List Summary (Total Codes: 318, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		810		Invoice		
ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set						

Semantics:

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).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

BIG Beginning Segment for Invoice

Pos: 0200	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Must use

Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIG01	373	Date	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				
BIG02	76	Invoice Number	M	AN	1/22	Must use
		Description: Identifying number assigned by issuer				
BIG03	373	Date	O	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				
BIG04	324	Purchase Order Number	O	AN	1/22	Must use
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser				

Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.
3. BIG10 is the consolidated invoice number associated with the invoice identified in BIG02. When BIG07 contains code CI (Consolidated Invoice), BIG02 will contain the consolidated invoice number and BIG10 is not used.

Comments:

1. BIG07 is used only to further define the type of invoice when needed.

NTE Note/Special Instruction

Pos: 0300	Max: 100
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
NTE01	363	Note Reference Code	O	ID	3/3	Used

Description: Code identifying the functional area or purpose for which the note applies

Code List Summary (Total Codes: 348, Included: 1)

<u>Code</u>	<u>Name</u>
INV	Invoice Instruction

NTE02	352	Description	M	AN	1/80	Must use
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Description: A free-form description to clarify the related data elements and their content

Comments:

1. The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processible. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

REF Reference Information

Pos: 0500	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

Code List Summary (Total Codes: 1731, Included: 1)

<u>Code</u>	<u>Name</u>
BM	Bill of Lading Number

REF02	127	Reference Identification	X	AN	1/50	Used
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

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

Loop Party Identification

Pos: 0700	Repeat: 200
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and code

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0700	N1	Party Identification	O	1		Must use
0900	N3	Party Location	O	2		Must use
1000	N4	Geographic Location	O	1		Must use

N1 Party Identification

Pos: 0700	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	Entity Identifier Code	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code List Summary (Total Codes: 1500, Included: 6)

Code	Name
BT	Bill-to-Party
	User Note 1:
	<i>Required on all invoices</i>
PE	Payee
	User Note 1:
	<i>Optionally Accepted Code</i>
RI	Remit To
	User Note 1:
	<i>Required on all invoices</i>
SF	Ship From
	User Note 1:
	<i>Optionally Accepted Code</i>
ST	Ship To
	User Note 1:
	<i>Required on all invoices</i>
	<i>Used to identify the designated KeHE Distribution Center</i>
VN	Vendor
	User Note 1:
	<i>Optionally Accepted Code</i>

N102	93	Name	X	AN	1/60	Must use
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Description: Free-form name

N103	66	Identification Code Qualifier	X	ID	1/2	Must use
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Description: Code designating the system/method of code structure used for Identification Code (67)

Code List Summary (Total Codes: 241, Included: 4)

Code	Name
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix
91	Assigned by Seller or Seller's Agent
92	Assigned by Buyer or Buyer's Agent
ZZ	Mutually Defined

N104	67	Identification Code	X	AN	2/80	Must use
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Description: Code identifying a party or other code

User Note 1:

*Code Identifying the KeHE DC must be included in N1*ST
KEHE DC Duns + 4*

0569813430001 - Elkton, FL

0569813430012 - Aurora, CO
0569813430015 - Lehigh Valley, PA
0569813430016 - Bloomington, IN
0569813430018 - Romeoville, IL
0569813430022 - Dallas, TX
0569813430025 - Portland, OR
0569813430027 - North East, MD
0569813430031 - Ft. Lauderdale, FL
0569813430033 - Stockton, CA
0569813430037 - Chino 'B', CA
0569813430041 - Chino, CA
0569813430042 - Flower Mound, TX
0569813430055 - Douglasville, GA

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

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.

N3 Party Location

Pos: 0900	Max: 2
Heading - Optional	
Loop: N1	Elements: 1

User Option (Usage): Must use

Purpose: To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Must use

Description: Address information

User Note 1:

Required when N101 = ST, BT, or RI

N4 Geographic Location

Pos: 1000	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Must use

Purpose: To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name	O	AN	2/30	Must use
Description: Free-form text for city name User Note 1: <i>Required when N101 = ST , BT or RI</i>						
N402	156	State or Province Code	X	ID	2/2	Must use
Description: Code (Standard State/Province) as defined by appropriate government agency User Note 1: <i>Required when N101 = ST , BT or RI</i>						
N403	116	Postal Code	O	ID	3/15	Must use
Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States) User Note 1: <i>Required when N101 = ST , BT or RI</i>						
N404	26	Country Code	X	ID	2/3	Used
Description: Code identifying the country						

Syntax Rules:

1. E0207 - Only one of N402 or N407 may be present.
2. C0605 - If N406 is present, then N405 is required.
3. C0704 - If N407 is present, then N404 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

ITD

Terms of Sale/Deferred Terms of Sale

Pos: 1300	Max: >1
Heading - Optional	
Loop: N/A	Elements: 5

User Option (Usage): Must use
Purpose: To specify terms of sale

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD01	336	Terms Type Code	O	ID	2/2	Must use
Description: Code identifying type of payment terms						
Code List Summary (Total Codes: 77, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		01		Basic		
ITD02	333	Terms Basis Date Code	O	ID	1/2	Must use
Description: Code identifying the beginning of the terms period						
Code List Summary (Total Codes: 17, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		2		Delivery Date		
ITD06	446	Terms Net Due Date	O	DT	8/8	Must use
Description: Date when total invoice amount becomes due expressed in format CCYYMMDD where CC represents the first two digits of the calendar year						
ITD07	386	Terms Net Days	O	N0	1/3	Must use
Description: Number of days until total invoice amount is due (discount not applicable)						
ITD12	352	Description	O	AN	1/80	Must use
Description: A free-form description to clarify the related data elements and their content						

Syntax Rules:

1. L03040513 - If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
2. L08040513 - If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. L091011 - If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantics:

1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

1. If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

DTM Date/Time Reference

Pos: 1400	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time

Code List Summary (Total Codes: 1280, Included: 1)

<u>Code</u>	<u>Name</u>
011	Shipped

DTM02	373	Date	X	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

FOB F.O.B. Related Instructions

Pos: 1500	Max: 1
Heading - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Used

Purpose: To specify transportation instructions relating to shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FOB01	146	Shipment Method of Payment	M	ID	2/2	Must use

Description: Code identifying payment terms for transportation charges

Code List Summary (Total Codes: 31, Included: 1)

<u>Code</u>	<u>Name</u>
PP	Prepaid (by Seller)

Syntax Rules:

1. C0302 - If FOB03 is present, then FOB02 is required.
2. C0405 - If FOB04 is present, then FOB05 is required.
3. C0706 - If FOB07 is present, then FOB06 is required.
4. C0809 - If FOB08 is present, then FOB09 is required.

Semantics:

1. FOB01 indicates which party will pay the carrier.
2. FOB02 is the code specifying transportation responsibility location.
3. FOB06 is the code specifying the title passage location.
4. FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

Loop Baseline Item Data (Invoice)

Pos: 0100	Repeat: 200000
Optional	
Loop: IT1	Elements: N/A

User Option (Usage): Must use

Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	IT1	Baseline Item Data (Invoice)	O	1		Must use
0300	IT3	Additional Item Data	O	5		Used
0500	CTP	Pricing Information	O	25		Used
0600		Loop PID	O		1000	Must use
1000	PO4	Item Physical Details	O	1		Used
1800		Loop SAC	O		1	Used

IT1**Baseline Item Data (Invoice)**

Pos: 0100	Max: 1
Detail - Optional	
Loop: IT1	Elements: 7

User Option (Usage): Must use**Purpose:** To specify the basic and most frequently used line item data for the invoice and related transactions**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
IT102	358	Quantity Invoiced	X	R	1/15	Must use	
Description: Number of units invoiced (supplier units)							
IT103	355	Unit or Basis for Measurement Code	X	ID	2/2	Must use	
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken							
Code List Summary (Total Codes: 844, Included: 1)							
		<u>Code</u>	<u>Name</u>				
		CA	Case				
IT104	212	Unit Price	X	R	1/17	Must use	
Description: Price per unit of product, service, commodity, etc.							
IT106	235	Product/Service ID Qualifier	X	ID	2/2	Must use	
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
Code List Summary (Total Codes: 519, Included: 1)							
		<u>Code</u>	<u>Name</u>				
		UP	UCC - 12				
IT107	234	Product/Service ID	X	AN	1/48	Must use	
Description: Identifying number for a product or service							
IT108	235	Product/Service ID Qualifier	X	ID	2/2	Must use	
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
Code List Summary (Total Codes: 519, Included: 4)							
		<u>Code</u>	<u>Name</u>				
		IN	Buyer's Item Number				
		User Note 1:					
		Kehe Item number, Length: 8 digits with leading zeros (can be different by DC)					
		UA	U.P.C./EAN Case Code (2-5-5)				
		UK	GTIN 14-digit Data Structure				
		VN	Vendor's (Seller's) Item Number				
IT109	234	Product/Service ID	X	AN	1/48	Must use	
Description: Identifying number for a product or service							

Syntax Rules:

1. P020304 - If either IT102, IT103 or IT104 are present, then the others are required.
2. P0607 - If either IT106 or IT107 is present, then the other is required.
3. P0809 - If either IT108 or IT109 is present, then the other is required.
4. P1011 - If either IT110 or IT111 is present, then the other is required.
5. P1213 - If either IT112 or IT113 is present, then the other is required.
6. P1415 - If either IT114 or IT115 is present, then the other is required.

7. P1617 - If either IT116 or IT117 is present, then the other is required.
8. P1819 - If either IT118 or IT119 is present, then the other is required.
9. P2021 - If either IT120 or IT121 is present, then the other is required.
10. P2223 - If either IT122 or IT123 is present, then the other is required.
11. P2425 - If either IT124 or IT125 is present, then the other is required.

Semantics:

1. IT101 is the 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.

IT3**Additional Item Data**

Pos: 0300	Max: 5
Detail - Optional	
Loop: IT1	Elements: 2

User Option (Usage): Used**Purpose:** To specify additional item details relating to variations between ordered and shipped quantities, or to specify alternate units of measures and quantities**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IT301	382	Number of Units Shipped	X	R	1/10	Used
Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set						
IT302	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
Code List Summary (Total Codes: 844, Included: 1)						
		<u>Code</u>	<u>Name</u>			
		LB	Pound			

Syntax Rules:

1. P0102 - If either IT301 or IT302 is present, then the other is required.
2. R01030405 - At least one of IT301, IT303, IT304 or IT305 is required.

User Note 1:

IT3 segment should ONLY be sent if the shipped quantity changes from the ordered quantity for catch weight items or items that are weighed.

CTP Pricing Information

Pos: 0500	Max: 25
Detail - Optional	
Loop: IT1	Elements: 2

User Option (Usage): Used

Purpose: To specify pricing information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTP02	236	Price Identifier Code	X	ID	3/3	Used

Description: Code identifying pricing specification

Code List Summary (Total Codes: 168, Included: 2)

Code	Name
ALT	Alternate Price
PRP	Promotional price

CTP03	212	Unit Price	X	R	1/17	Used
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Description: Price per unit of product, service, commodity, etc.

Syntax Rules:

1. P0405 - If either CTP04 or CTP05 is present, then the other is required.
2. C0607 - If CTP06 is present, then CTP07 is required.
3. C0902 - If CTP09 is present, then CTP02 is required.
4. C1002 - If CTP10 is present, then CTP02 is required.
5. C1103 - If CTP11 is present, then CTP03 is required.

Semantics:

1. CTP07 is a multiplier factor to arrive at a final discounted price. A multiplier of .90 would be the factor if a 10% discount is given.
2. CTP08 is the rebate amount.

Comments:

1. See Figures Appendix for an example detailing the use of CTP03 and CTP04.
2. See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07.

User Note 1:

The CTP segment should ONLY be sent if the pricing is being adjusted for catch weight items or items that are weighed.

Loop Product/Item Description

Pos: 0600	Repeat: 1000
Optional	
Loop: PID	Elements: N/A

User Option (Usage): Must use

Purpose: To describe a product or process in coded or free-form format

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0600	PID	Product/Item Description	O	1		Must use

PID Product/Item Description

Pos: 0600	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

User Option (Usage): Must use

Purpose: To describe a product or process in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	Item Description Type	M	ID	1/1	Must use

Description: Code indicating the format of a description

Code List Summary (Total Codes: 3, Included: 1)

Code	Name
F	Free-form

PID05	352	Description	X	AN	1/80	Must use
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Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required.
2. R0405 - At least one of PID04 or PID05 is required.
3. C0703 - If PID07 is present, then PID03 is required.
4. C0804 - If PID08 is present, then PID04 is required.
5. C0905 - If PID09 is present, then PID05 is required.

Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

PO4 Item Physical Details

Pos: 1000	Max: 1
Detail - Optional	
Loop: IT1	Elements: 1

User Option (Usage): Used

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO401	356	Pack	O	N0	1/6	Used

Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container

Syntax Rules:

1. P0203 - If either PO402 or PO403 is present, then the other is required.
2. C0506 - If PO405 is present, then PO406 is required.
3. P0607 - If either PO406 or PO407 is present, then the other is required.
4. P0809 - If either PO408 or PO409 is present, then the other is required.
5. C1013 - If PO410 is present, then PO413 is required.
6. C1113 - If PO411 is present, then PO413 is required.
7. C1213 - If PO412 is present, then PO413 is required.
8. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
9. C1716 - If PO417 is present, then PO416 is required.
10. C1804 - If PO418 is present, then PO404 is required.

Semantics:

1. PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
2. PO416 is the package identifier or the beginning package identifier in a range of identifiers.
3. PO417 is the ending package identifier in a range of identifiers.
4. PO418 is the number of packages in this layer.

Comments:

1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the unit of measure of the "Size" identified in the PO402. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
2. PO413 defines the unit of measure for PO410, PO411, and PO412.

Loop Service, Promotion, Allowance, or Charge Information

Pos: 1800	Repeat: 1
Optional	
Loop: SAC	Elements: N/A

User Option (Usage): Used

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
1800	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 1800 Max: 1
Detail - Optional
Loop: SAC Elements: 5

User Option (Usage): Used

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Must use

Description: Code which indicates an allowance or charge for the service specified

Code List Summary (Total Codes: 7, Included: 1)

<u>Code</u>	<u>Name</u>
A	Allowance

SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Must use
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Description: Code identifying the service, promotion, allowance, or charge

User Note 1:

Either one these codes need to be returned for each item on the Purchase Order where the C350 was sent for item level discounts.

Code List Summary (Total Codes: 1090, Included: 2)

<u>Code</u>	<u>Name</u>
C310	Discount
F800	Promotional Allowance

SAC05	610	Amount	O	N2	1/15	Must use
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Description: Monetary amount

SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2	Must use
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Description: Code indicating method of handling for an allowance or charge

Code List Summary (Total Codes: 22, Included: 1)

<u>Code</u>	<u>Name</u>
02	Off Invoice

SAC15	352	Description	X	AN	1/80	Must use
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Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. C1413 - If SAC14 is present, then SAC13 is required.
7. C1615 - If SAC16 is present, then SAC15 is required.

Semantics:

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.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. 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 with SAC03 to further define 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.

User Note 1:

Must use detail SAC segment when discounts are applied to an Item

TDS Total Monetary Value Summary

Pos: 0100	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Must use

Purpose: To specify the total invoice discounts and amounts

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	Amount	M	N2	1/15	Must use
		Description: Monetary amount				
TDS02	610	Amount	O	N2	1/15	Used
		Description: Monetary amount				
TDS03	610	Amount	O	N2	1/15	Used
		Description: Monetary amount				
TDS04	610	Amount	O	N2	1/15	Used
		Description: Monetary amount				

Semantics:

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.

CAD Carrier Details

Pos: 0300	Max: 1
Summary - Optional	
Loop: N/A	Elements: 5

User Option (Usage): Used

Purpose: To specify transportation details for the transaction

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CAD01	91	Transportation Method/Type Code	M	ID	1/2	Used
Description: Code specifying the method or type of transportation for the shipment						
Code List Summary (Total Codes: 80, Included: 2)						
		<u>Code</u>		<u>Name</u>		
		H		Customer Pickup		
		M		Motor (Common Carrier)		
CAD02	206	Equipment Initial	O	AN	1/4	Used
Description: Prefix or alphabetic part of an equipment unit's identifying number						
CAD03	207	Equipment Number	O	AN	1/15	Used
Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)						
CAD04	140	Standard Carrier Alpha Code	X	ID	2/4	Used
Description: Standard Carrier Alpha Code						
CAD05	387	Routing	X	AN	1/35	Used
Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity						

Syntax Rules:

1. R0504 - At least one of CAD05 or CAD04 is required.
2. C0708 - If CAD07 is present, then CAD08 is required.

Loop Service, Promotion, Allowance, or Charge Information

Pos: 0400 Repeat: >1
Optional
Loop: SAC Elements: N/A

User Option (Usage): Used

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0400	SAC	Service, Promotion, Allowance, or Charge Information	O	>1		Must use

User Note 1:

Acceptable Codes when SAC = A:

- . C000 Defective Allowance
- . G860 Spoilage /Shrink Allowance
- . H560 Swell Allowance
- . I410 Unsaleable Merchandise Allowance
- . C290 Freight Allowance/ Discount – Service Option (Pickup)
- . D240 Freight
- . B720 Cooperative Advertising/Merchandising Allowance
- . C350 Distributor Discount/Marketing Allowance
- . F670 Price and Marketing Allowance

Acceptable Codes when SAC = C:

- . B570 Container Deposits
- . F170 Pallet Charge
- . F180 Pallet
- . I020 Third Party Pallets

Acceptable Codes when SAC = A or C:

- . H920 Miscellaneous (Charges or Allowances)

SAC Service, Promotion, Allowance, or Charge Information

Pos: 0400 Max: >1
Summary - Optional
Loop: SAC Elements: 5

User Option (Usage): Must use

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Must use

Description: Code which indicates an allowance or charge for the service specified

Code List Summary (Total Codes: 7, Included: 2)

Code	Name
A	Allowance
C	Charge

SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Must use
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Description: Code identifying the service, promotion, allowance, or charge

Code List Summary (Total Codes: 1090, Included: 14)

Code	Name
B570	Container Deposits
	User Note 1: <i>Code to Container/Bottle Deposit Charge</i>
B720	Cooperative Advertising/Merchandising Allowance (Performance)
	User Note 1: <i>Code to indicate The Marketing Allowances as sent on the Purchase Order</i>
C000	Defective Allowance
	User Note 1: <i>Code to indicate Spoilage/Defective Allowance</i>
C290	Discount - Service Option (Pickup)
	User Note 1: <i>Code to indicate any Freight/Pick up Allowance</i>
C350	Distributor Discount/Allowance
	User Note 1: <i>Code to indicate The Marketing Allowances as sent on the Purchase Order</i>
D240	Freight
	User Note 1: <i>Code to indicate any Freight/Pick up Allowance</i>
F170	Pallet Exchange Charge
F180	Pallet
F670	Price and Marketing Allowance
	User Note 1: <i>Code to indicate The Marketing Allowances as sent on the Purchase Order</i>
G860	Shrink Allowance
	User Note 1: <i>Code to indicate Spoilage/Defective Allowance</i>
H560	Swell
	User Note 1:

		<i>Code to indicate Spoilage/Defective Allowance</i>				
	H920	Miscellaneous (Charges or Allowances)				
		User Note 1:				
		<i>Code to indicate any other Allowances or Charges not previously defined</i>				
	I020	Third Party Pallets				
	I410	Unsaleable Merchandise Allowance				
		User Note 1:				
		<i>Code to indicate Spoilage/Defective Allowance</i>				
SAC05	610	Amount	O	N2	1/15	Must use
Description: Monetary amount						
SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2	Must use
Description: Code indicating method of handling for an allowance or charge						
Code List Summary (Total Codes: 22, Included: 2)						
		Code	Name			
		02	Off Invoice			
		06	Charge to be Paid by Customer			
SAC15	352	Description	X	AN	1/80	Must use
Description: A free-form description to clarify the related data elements and their content						

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. C1413 - If SAC14 is present, then SAC13 is required.
7. C1615 - If SAC16 is present, then SAC15 is required.

Semantics:

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.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. 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 with SAC03 to further define 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.

User Note 1:

Allowance and/or charges are applied to an Invoice

Loop Invoice Shipment Summary

Pos: 0600	Repeat: 1
Optional	
Loop: ISS	Elements: N/A

User Option (Usage): Must use

Purpose: To specify summary details of total items shipped in terms of quantity, weight, and volume

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0600	ISS	Invoice Shipment Summary	O	1		Must use

ISS**Invoice Shipment Summary**

Pos: 0600	Max: 1
Summary - Optional	
Loop: ISS	Elements: 4

User Option (Usage): Must use**Purpose:** To specify summary details of total items shipped in terms of quantity, weight, and volume**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISS01	382	Number of Units Shipped	X	R	1/10	Must use
Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set						
ISS02	355	Unit or Basis for Measurement Code	X	ID	2/2	Must use
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
Code List Summary (Total Codes: 844, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		CA		Case		
ISS03	81	Weight	X	R	1/10	Must use
Description: Numeric value of weight						
ISS04	355	Unit or Basis for Measurement Code	X	ID	2/2	Must use
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
Code List Summary (Total Codes: 844, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		LB		Pound		

Syntax Rules:

1. R010305 - At least one of ISS01, ISS03 or ISS05 is required.
2. P0102 - If either ISS01 or ISS02 is present, then the other is required.
3. P0304 - If either ISS03 or ISS04 is present, then the other is required.
4. P0506 - If either ISS05 or ISS06 is present, then the other is required.

Semantics:

1. ISS07 is the quantity of third party pallets.
2. ISS08 is the gross weight of third party pallets in pounds.

CTT Transaction Totals

Pos: 0700	Max: 1
Summary - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To transmit a hash total for a specific element in the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Must use

Description: Total number of line items in the transaction set

CTT02	347	Hash Total	O	R	1/10	Must use
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Description: Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. 18E2 Fifth occurrence of value being hashed. ----- 1873 Hash Total

Syntax Rules:

1. P0304 - If either CTT03 or CTT04 is present, then the other is required.
2. P0506 - If either CTT05 or CTT06 is present, then the other is required.

Comments:

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

SE Transaction Set Trailer

Pos: 0800	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	NO	1/10	Must use
Description: Total number of segments included in a transaction set including ST and SE segments						
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set						

Comments:

1. SE is the last segment of each transaction set.