1205 Kimball Blvd
Jasper, IN 47546
812-634-4000

Invoice Message

EDI Transaction 810
Specifications X12
Standard 004010
Inbound to Kimball

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Version 00
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Table of Contents

1   Schema structure

Name	Level	Max Occ.	Content
ISA	1	1	Interchange Control Header
GS	2	-1	Functional Group Header
ST	3	-1	Transaction Set Header
BIG_CN_CR	4	1	Beginning Segment for Invoice
CUR_BY	4	1	Currency
REF_PK_IV_BM_VN	4	12	Reference Identification
PER_BD_RE_IC	4	3	Administrative Communications Contact
N1_BY_SF_CA_BT	4	200	Name
N1	5	1	Name
N1_RI	4	200	Name
N1	5	1	Name
N1_ST	4	200	Name
N1	5	1	Name
N3	6	2	Address Information
N4	6	1	Geographic Location
ITD_01	4	-1	Terms of Sale/Deferred Terms of Sale
DTM_011	4	10	Date/Time Reference
IT1_BP_MG_MF_VP	4	200000	Baseline Item Data (Invoice)
IT1	5	1	Baseline Item Data (Invoice)
TXI	6	10	Tax Information
CTP	6	25	Pricing Information
REF	6	-1	Reference Identification
L7	6	-1	Tariff Reference
TDS_01_02	4	1	Total Monetary Value Summary
TXI_01	4	10	Tax Information
SAC_01	4	25	Service, Promotion, Allowance, or Charge
SAC	5	1	Service, Promotion, Allowance, or Charge
CTT	4	1	Transaction Totals
SE	4	1	Transaction Set Trailer
GE	3	1	Functional Group Trailer
IEA	2	1	Interchange Control Trailer

2   Header Segments

2.1   ISA (Interchange Control Header)

Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

This segment is mandatory here.
Max. occurrences is 1.

Label	Name	Standard		Impl		Comment
I01	Authorization Information Qualifier	M	ID2/2	M	ID2/2	Description: Code to identify the type of information in the Authorization Information Standard codelist for I01 is supported.
I02	Authorization Information	O	AN10/10	O	AN10/10	Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)
I03	Security Information Qualifier	M	ID2/2	M	ID2/2	Description: Code to identify the type of information in the Security Information Standard codelist for I03 is supported.
I04	Security Information	O	AN10/10	O	AN10/10	Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)
I05	Interchange ID Qualifier	M	ID2/2	M	ID2/2	Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified ZZ **Mutually Defined**
I06	Interchange Sender ID	M	AN15/15	M	AN15/15	Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element
I05	Interchange ID Qualifier	M	ID2/2	M	ID2/2	Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified ZZ **Mutually Defined**
I07	Interchange Receiver ID	M	AN15/15	M	AN15/15	Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them
I08	Interchange Date	M	DT6/6	M	DT6/6	Description: Date of the interchange

Label	Name	Standard		Impl		Comment
I09	Interchange Time	M	TM4/4	M	TM4/4	Description: Time of the interchange
I10	Interchange Control Standards Identifier	M	ID1/1	M	ID1/1	Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer **Code** **Description** U
I11	Interchange Control Version Number	M	ID5/5	M	ID5/5	Description: Code specifying the version number of the interchange control segments **Code** **Description** 00401
I12	Interchange Control Number	M	N9/9	M	N9/9	Description: A control number assigned by the interchange sender
I13	Acknowledgment Requested	M	ID1/1	M	ID1/1	Description: Code sent by the sender to request an interchange acknowledgment (TA1) Standard codelist for I13 is supported.
I14	Usage Indicator	M	ID1/1	M	ID1/1	Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information Standard codelist for I14 is supported.
I15	Component Element Separator	M	AN1/1	M	AN1/1	Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator

2.2   GS (Functional Group Header)

Purpose: To indicate the beginning of a functional group and to provide control information
Semantics: GS04 is the group date.
 GS05 is the group time.
 The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02. Comments: A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

This segment is mandatory here.
Max. occurrences is "unbound".

Label	Name	Standard		Impl	Comment
479	Functional Identifier Code	M ID2/2	M ID2/2		Description: Code identifying a group of application related transaction sets IN **Invoice information**
142	Application Sender's Code	M AN2/15	M AN2/15		Description: Code identifying party sending transmission; codes agreed to by trading partners
124	Application Receiver's Code	M AN2/15	M AN2/15		Description: Code identifying party receiving transmission; codes agreed to by trading partners
373	Date	M DT8/8	M DT8/8		Description: Date expressed as CCYYMMDD
337	Time	M TM4/8	M TM4/8		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)
28	Group Control Number	M N0/9	M N0/9		Description: Assigned number originated and maintained by the sender
455	Responsible Agency Code	M ID1/2	M ID1/2		Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480 X **Accredited Standards Committee X12**
480	Version / Release / Industry Identifier Code	M AN1/12	M AN1/12		Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed **Code Description** 004010

2.3 ST (Transaction Set Header)

Purpose: To indicate the start of a transaction set and to assign a control number
Semantics: The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

This segment is mandatory here.
Max. occurrences is "unbound".

Label	Name	Standard		Impl		Comment
143	Transaction Set Identifier Code	M	ID3/3	M	ID3/3	Description: Code uniquely identifying a Transaction Set Standard codelist for _143 is supported.
329	Transaction Set Control Number	M	AN4/9	M	AN4/9	**Code** **Description** 810 **Invoice**

3 Invoice Segments

3.1 BIG_CN_CR (Beginning Segment for Invoice)

Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates Semantics: BIG01 is the invoice issue date.
 BIG03 is the date assigned by the purchaser to purchase order.
 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.
 Comments: BIG07 is used only to further define the type of invoice when needed.

This segment is mandatory here.
Max. occurrences is 1.

Label	Name	Standard		Impl	Comment
373	Date	M DT8/8	M	DT8/8	Description: Date expressed as CCYYMMDD
76	Invoice Number	M AN1/22	M	AN1/22	Description: Identifying number assigned by issuer
373	Date	O DT8/8	M	DT8/8	Description: Date expressed as CCYYMMDD
324	Purchase Order Number	O AN1/22	M	AN1/22	Description: Identifying number for Purchase Order assigned by the orderer/purchaser
328	Release Number	O AN1/30	O	AN1/30	Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction
327	Change Order Sequence Number	O AN1/8	O	AN1/8	Description: Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set
640	Transaction Type Code	O ID2/2	M	ID2/2	Description: Code specifying the type of transaction **Code** **Description** CR **Credit Memo** CN **Credit Invoice** DI **Debit Invoice**

3.2   CUR_BY (Currency)

Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction
Comments: See Figures Appendix for examples detailing the use of the CUR segment.
 ' Syntax Rules: C0807 : If CUR08 is present, then CUR07 is required. C0907 : If CUR09 is present, then CUR07 is required. L101112 : If CUR10 is present, then at least one of CUR11 or CUR12 is required. C1110 : If CUR11 is present, then CUR10 is required. C1210 : If CUR12 is present, then CUR10 is required. L131415 : If CUR13 is present, then at least one of CUR14 or CUR15 is required. C1413 : If CUR14 is present, then CUR13 is required. C1513 : If CUR15 is present, then CUR13 is required. L161718 : If CUR16 is present, then at least one of CUR17 or CUR18 is required. C1716 : If CUR17 is present, then CUR16 is required. C1816 : If CUR18 is present, then CUR16 is required. L192021 : If CUR19 is present, then at least one of CUR20 or CUR21 is required. C2019 : If CUR20 is present, then CUR19 is required. C2119 : If CUR21 is present, then CUR19 is required.

This segment is mandatory here.
Max. occurrences is 1.

Label	Name	Standard	Impl	Comment
98	Entity Identifier Code	M ID2/3	M ID2/3	Description: Code identifying an organizational entity, a physical location, property or an individual **Code**　　　　**Description** BY　　　　**Buying Party (Purchaser)**
100	Currency Code	M ID3/3	M ID3/3	Description: Code (Standard ISO) for country in whose currency the charges are specified

3.3   REF_PK_IV_BM_VN (Reference Identification)

Purpose: To specify identifying information Semantics: REF04 contains data relating to the value cited in REF02.
' Syntax Rules: R0203 : At least one of REF02 or REF03 is required.
This segment is mandatory here.
Kimball usage: Codes PK and IV mandatory.
Max. occurrences is 12.

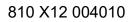| Label	Name	Standard		Impl	Comment
128	Reference Identification Qualifier	M ID2/3	M ID2/3		Description: Code qualifying the Reference Identification
					Code **Description**
					VN **Vendor Order Number**
					PK **Packing List Number**
					IV **Seller's Invoice Number**
					BM **Bill of Lading Number**
					Kimball usage: Freight Tracking Number
127	Reference Identification	O AN1/30	M AN1/30		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier
352	Description	O AN1/80	O AN1/80		Description: A free-form description to clarify the related data elements and their content

3.4 PER_BD_RE_IC (Administrative Communications Contact)

Purpose: To identify a person or office to whom administrative communications should be directed' Syntax Rules: P0304 : If either PER03 or PER04 is present, then the other is required. P0506 : If either PER05 or PER06 is present, then the other is required. P0708 : If either PER07 or PER08 is present, then the other is required.

This segment is optional here.
Max. occurrences is 3.

Label	Name	Standard	Impl	Comment
366	Contact Function Code	M ID2/2	M ID2/2	Description: Code identifying the major duty or responsibility of the person or group named **Code** **Description** RE **Receiving Contact** BD **Buyer Name or Department** IC **Information Contact**
365	Communication Number Qualifier	O ID2/2	M ID2/2	Description: Code identifying the type of communication number **Code** **Description** TE **Telephone** FX **Facsimile**
365	Communication Number Qualifier	O ID2/2	M ID2/2	Description: Code identifying the type of communication number **Code** **Description** FX **Facsimile** TE **Telephone**
365	Communication Number	O ID2/2	M ID2/2	Description: Code identifying the type of communication number

Label	Name	Standard		Impl	Comment
	Qualifier				**Code** **Description**
					FX **Facsimile**
					TE **Telephone**

3.5 N1_BY_SF_CA_BT (Name)

N	Level	a	Max Occ.	m	Content	e	
N1	5		1		N	a	m

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

This segment group is mandatory here.
Max. occurrences is 200.

3.5.1 N1 (Name)

Purpose: To identify a party by type of organization, name, and code Comments: 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.
 N105 and N106 further define the type of entity in N101.
 ' Syntax Rules: R0203 : At least one of N102 or N103 is required. P0304 : If either N103 or N104 is present, then the other is required.

This segment is mandatory here.
Max. occurrences is 1.

Label	Name	Standard		Impl		Comment
98	Entity Identifier Code	M	ID2/3	M	ID2/3	Description: Code identifying an organizational entity, a physical location, property or an individual
						Code **Description**
						SF **Ship From**
						CA **Carrier**
						BY **Buying Party (Purchaser)**
						BT **Bill-to-Party**
66	Identification Code Qualifier	O	ID1/2	M	ID1/2	Description: Code designating the system/method of code structure used for Identification Code (67)
						Code **Description**
						92 **Assigned by Buyer or Buyer's Agent**
67	Identification Code	O	AN2/80	M	AN2/80	Description: Code identifying a party or other code

3.6 N1_RI (Name)

N	Level	a	Max Occ.	m	Content	e		m
N1	5		1		N		a	m

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

This segment group is optional here.
Max. occurrences is 200.

3.6.1 N1 (Name)

Purpose: To identify a party by type of organization, name, and code Comments: 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.
 N105 and N106 further define the type of entity in N101.
 ' Syntax Rules: R0203 : At least one of N102 or N103 is required. P0304 : If either N103 or N104 is present, then the other is required.

This segment is mandatory here.
Max. occurrences is 1.

Label	Name	Standard		Impl		Comment
98	Entity Identifier Code	M	ID2/3	M	ID2/3	Description: Code identifying an organizational entity, a physical location, property or an individual **Code** **Description** RI **Remit To**
93	Name	O	AN1/60	M	AN1/60	Description: Free-form name
66	Identification Code Qualifier	O	ID1/2	M	ID1/2	Description: Code designating the system/method of code structure used for Identification Code (67) **Code** **Description** 31 **Bank Identification Code**
67	Identification Code	O	AN2/80	M	AN2/80	Description: Code identifying a party or other code

3.7 N1_ST (Name)

N	a L m e	M v e	e a C l x o	n O t c e
N	1 5	1	N a m	e
N	3 6	2	A d d r	e
N	4 6	1	G e o g	r

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

This segment group is mandatory here.
Max. occurrences is 200.

3.7.1 N1 (Name)

Purpose: To identify a party by type of organization, name, and code Comments: 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.
 N105 and N106 further define the type of entity in N101.
 ' Syntax Rules: R0203 : At least one of N102 or N103 is required. P0304 : If either N103 or N104 is present, then the other is required.

This segment is mandatory here.
Max. occurrences is 1.

Label	Name	Standard		Impl		Comment
98	Entity Identifier Code	M	ID2/3	M	ID2/3	Description: Code identifying an organizational entity, a physical location, property or an individual **Code** **Description** ST **Ship To**
93	Name	O	AN1/60	M	AN1/60	Description: Free-form name
66	Identification Code Qualifier	O	ID1/2	M	ID1/2	Description: Code designating the system/method of code structure used for Identification Code (67) **Code** **Description** 92 **Assigned by Buyer or Buyer's Agent**
67	Identification Code	O	AN2/80	M	AN2/80	Description: Code identifying a party or other code
N3	Address Information	O		O		Purpose: To specify the location of the named party Max. occurrences is 2.
N4	Geographic Location	O		O		Purpose: To specify the geographic place of the named party Comments: A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location. N402 is required only if city name (N401) is in the U.S. or Canada. ' Syntax Rules: C0605 : If N406 is present, then N405 is required. Max. occurrences is 1.

3.7.1.1 N3 (Address Information)

Purpose: To specify the location of the named party

This segment is optional here.
Max. occurrences is 2.

Label	Name	Standard		Impl		Comment
166	Address Information	M	AN1/55	M	AN1/55	Description: Address information

3.7.1.2 N4 (Geographic Location)

Purpose: To specify the geographic place of the named party Comments: A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 N402 is required only if city name (N401) is in the U.S. or Canada.
 ' Syntax Rules: C0605 : If N406 is present, then N405 is required.

This segment is optional here.
Max. occurrences is 1.

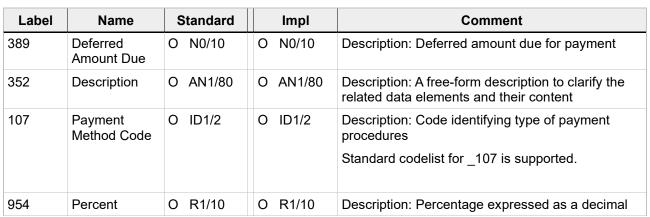| Label	Name	Standard		Impl	Comment
19	City Name	O AN2/30	M	AN2/30	Description: Free-form text for city name
156	State or Province Code	O ID2/2	M	ID2/2	Description: Code (Standard State/Province) as defined by appropriate government agency
116	Postal Code	O ID3/15	M	ID3/15	Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)
26	Country Code	O ID2/3	M	ID2/3	Description: Code identifying the country

3.8   ITD_01 (Terms of Sale/Deferred Terms of Sale)

Purpose: To specify terms of sale Semantics: ITD15 is the percentage applied to a base amount used to determine a late payment charge.
Comments: 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.
' Syntax Rules: L03040513 : If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required. L08040513 : If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required. L091011 : If ITD09 is present, then at least one of ITD10 or ITD11 is required.

This segment is mandatory here.
Max. occurrences is "unbound".

Label	Name	Standard		Impl		Comment
336	Terms Type Code	O	ID2/2	M	ID2/2	Description: Code identifying type of payment terms **Code** **Description** 01 **Basic**
333	Terms Basis Date Code	O	ID1/2	M	ID1/2	Description: Code identifying the beginning of the terms period **Code** **Description** 3 **Invoice Date**
338	Terms Discount Percent	O	R1/6	O	R1/6	Description: Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date
370	Terms Discount Due Date	O	DT8/8	O	DT8/8	Description: Date payment is due if discount is to be earned expressed in format CCYYMMDD
351	Terms Discount Days Due	O	N0/3	O	N0/3	Description: Number of days in the terms discount period by which payment is due if terms discount is earned
446	Terms Net Due Date	O	DT8/8	O	DT8/8	Description: Date when total invoice amount becomes due expressed in format CCYYMMDD
386	Terms Net Days	O	N0/3	O	N0/3	Description: Number of days until total invoice amount is due (discount not applicable)
362	Terms Discount Amount	O	N0/10	O	N0/10	Description: Total amount of terms discount
388	Terms Deferred Due Date	O	DT8/8	O	DT8/8	Description: Date deferred payment or percent of invoice payable is due expressed in format CCYYMMDD

Label	Name	Standard		Impl		Comment
389	Deferred Amount Due	O	N0/10	O	N0/10	Description: Deferred amount due for payment
352	Description	O	AN1/80	O	AN1/80	Description: A free-form description to clarify the related data elements and their content
107	Payment Method Code	O	ID1/2	O	ID1/2	Description: Code identifying type of payment procedures Standard codelist for _107 is supported.
954	Percent	O	R1/10	O	R1/10	Description: Percentage expressed as a decimal

3.9   DTM_011 (Date/Time Reference)

Purpose: To specify pertinent dates and times' Syntax Rules: R020305 : At least one of DTM02, DTM03 or DTM05 is required. C0403 : If DTM04 is present, then DTM03 is required. P0506 : If either DTM05 or DTM06 is present, then the other is required.

This segment is optional here.
Max. occurrences is 10.

Label	Name	Standard		Impl		Comment
374	Date/Time Qualifier	M	ID3/3	M	ID3/3	Description: Code specifying type of date or time, or both date and time
						Code **Description**
						011 **Shipped**
373	Date	O	DT8/8	M	DT8/8	Description: Date expressed as CCYYMMDD

3.10 IT1_BP_MG_MF_VP (Baseline Item Data (Invoice))

Name	Level	Max.Use	Content
IT1	1	5	1	Baseline
TXI	6	10	Tax Info
CTP	6	25	Pricing Ir
REF	6	-1	Referenc
L7	6	-1	Tariff Re

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

This segment group is mandatory here.
Max. occurrences is 200,000.

3.10.1 IT1 (Baseline Item Data (Invoice))

Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions Semantics: IT101 is the purchase order line item identification.
 Comments: Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
 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.
 ' Syntax Rules: P020304 : If either IT102, IT103 or IT104 is present, then the other is required. P0607 : If either IT106 or IT107 is present, then the other is required. P0809 : If either IT108 or IT109 is present, then the other is required. P1011 : If either IT110 or IT111 is present, then the other is required. P1213 : If either IT112 or IT113 is present, then the other is required. P1415 : If either IT114 or IT115 is present, then the other is required. P1617 : If either IT116 or IT117 is present, then the other is required. P1819 : If either IT118 or IT119 is present, then the other is required. P2021 : If either IT120 or IT121 is present, then the other is required. P2223 : If either IT122 or IT123 is present, then the other is required. P2425 : If either IT124 or IT125 is present, then the other is required.

This segment is optional here.
Max. occurrences is 1.

Label	Name	Standard		Impl	Comment
350	Assigned Identification	O AN1/20	M	AN1/20	Description: Alphanumeric characters assigned for differentiation within a transaction set
358	Quantity Invoiced	O R1/10	M	R1/10	Description: Number of units invoiced (supplier units)
355	Unit or Basis for Measurement Code	O ID2/2	M	ID2/2	Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Standard codelist for _355 is supported.
212	Unit Price Extended	O R1/17	M	R1/17	Description: Extended Price of product, service, commodity, etc.
639	Basis of Unit Price Code	O ID2/2	M	ID2/2	Description: Code identifying the type of unit price for an item **Code** **Description** PE **Extended Price Per Line Item**
235	Product/Service ID Qualifier	O ID2/2	M	ID2/2	Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) **Code** **Description** BP **Buyer's Part Number**

Label	Name	Standard		Impl		Comment
234	Product/Service ID	O	AN1/48	M	AN1/48	Description: Identifying number for a product or service
235	Product/Service ID Qualifier	O	ID2/2	M	ID2/2	Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) **Code** **Description** MG **Manufacturer's Part Number**
235	Product/Service ID Qualifier	O	ID2/2	M	ID2/2	Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) **Code** **Description** MF **Manufacturer**
235	Product/Service ID Qualifier	O	ID2/2	M	ID2/2	Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) **Code** **Description** CH **Country of Origin Code**
234	Product/Service ID	O	AN1/48	O	AN1/48	Description: Identifying number for a product or service
235	Product/Service ID Qualifier	O	ID2/2	M	ID2/2	Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) **Code** **Description** VP **Vendor's (Seller's) Part Number**
234	Product/Service ID	O	AN1/48	O	AN1/48	Description: Identifying number for a product or service
235	Product/Service ID Qualifier	O	ID2/2	M	ID2/2	Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) **Code** **Description** PD **Part Number Description**

Label	Name	Standard		Impl	Comment
TXI	Tax Information	O		O	Purpose: To specify tax information Semantics: TXI02 is the monetary amount of the tax. TXI03 is the tax percent expressed as a decimal. TXI07 is a code indicating the relationship of the price or amount to the associated segment. ' Syntax Rules: R020306 : At least one of TXI02, TXI03 or TXI06 is required. P0405 : If either TXI04 or TXI05 is present, then the other is required. C0803 : If TXI08 is present, then TXI03 is required. Max. occurrences is 10.
CTP	Pricing Information	O		O	Purpose: To specify pricing information Semantics: 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. CTP08 is the rebate amount. Comments: See Figures Appendix for an example detailing the use of CTP03 and CTP04. See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07. ' Syntax Rules: P0405 : If either CTP04 or CTP05 is present, then the other is required. C0607 : If CTP06 is present, then CTP07 is required. C0902 : If CTP09 is present, then CTP02 is required. C1002 : If CTP10 is present, then CTP02 is required. C1103 : If CTP11 is present, then CTP03 is required. Max. occurrences is 25.
REF	Reference Identification	O		O	Purpose: To specify identifying information Semantics: REF04 contains data relating to the value cited in REF02. ' Syntax Rules: R0203 : At least one of REF02 or REF03 is required. Max. occurrences is "unbound".
L7	Tariff Reference	O		O	Purpose: To reference details of the tariff used to arrive at applicable rates or charge Semantics: L710 is the effective date. In L715 and L716, "City" and "State" are used for rate combination city and state. Max. occurrences is "unbound".

3.10.1.1 TXI (Tax Information)

Purpose: To specify tax information Semantics: TXI02 is the monetary amount of the tax.
 TXI03 is the tax percent expressed as a decimal.
 TXI07 is a code indicating the relationship of the price or amount to the associated segment.
 ' Syntax Rules: R020306 : At least one of TXI02, TXI03 or TXI06 is required. P0405 : If either TXI04 or TXI05 is present, then the other is required. C0803 : If TXI08 is present, then TXI03 is required.

This segment is optional here.
Max. occurrences is 10.

Label	Name	Standard	Impl	Comment
963	Tax Type Code	M ID2/2	M ID2/2	Description: Code specifying the type of tax **Code** **Description** ZZ **Mutually Defined** **Tariff Tax Amount**
782	Monetary Amount	O R1/18	M R1/18	Description: Monetary amount

3.10.1.2 CTP (Pricing Information)

Purpose: To specify pricing information Semantics: 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. CTP08 is the rebate amount.
Comments: See Figures Appendix for an example detailing the use of CTP03 and CTP04.
See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07.
' Syntax Rules: P0405 : If either CTP04 or CTP05 is present, then the other is required. C0607 : If CTP06 is present, then CTP07 is required. C0902 : If CTP09 is present, then CTP02 is required. C1002 : If CTP10 is present, then CTP02 is required. C1103 : If CTP11 is present, then CTP03 is required.

This segment is optional here.
Max. occurrences is 25.

Label	Name	Standard		Impl	Comment
236	Price Identifier Code	O ID3/3		M ID3/3	Description: Code identifying pricing specification **Code** **Description** INV **Invoice Billing Unit Price**
212	Unit Price	O R1/17		M R1/17	Description: Price per unit of product, service, commodity, etc.

3.10.1.3   REF (Reference Identification)

Purpose: To specify identifying information Semantics: REF04 contains data relating to the value cited in REF02.
 ' Syntax Rules: R0203 : At least one of REF02 or REF03 is required.

This segment is optional here.
Max. occurrences is "unbound".

Label	Name	Standard		Impl		Comment
128	Reference Identification Qualifier	M	ID2/3	M	ID2/3	Description: Code qualifying the Reference Identification
						Code **Description**
						VN **Vendor Order Number**
127	Reference Identification	O	AN1/30	M	AN1/30	Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

3.10.1.4   L7 (Tariff Reference)

Purpose: To reference details of the tariff used to arrive at applicable rates or charge
Semantics: L710 is the effective date.
 In L715 and L716, "City" and "State" are used for rate combination city and state.

This segment is optional here.
Max. occurrences is "unbound".

Label	Name	Standard	Impl	Comment
169	Tariff Item Number	O AN1/16	M AN1/16	Description: Number assigned in the tariff to specific rate or group of rates that applies to one or more items in the shipment

3.11   TDS_01_02 (Total Monetary Value Summary)

Purpose: To specify the total invoice discounts and amounts Semantics: TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
 TDS02 indicates the amount upon which the terms discount amount is calculated.
 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
 TDS04 indicates the total amount of terms discount.
 Comments: TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

This segment is mandatory here.
Max. occurrences is 1.

Label	Name	Standard	Impl	Comment
610	Amount	M N0/15	M N0/15	Description: Monetary amount **Kimball usage: Gross Invoice Amount**
610	Amount	O N0/15	O N0/15	Description: Monetary amount **Kimball usage: Net Invoice Amount (Prior to Freight, Tariff, and taxes, etc.)**

3.12   TXI_01 (Tax Information)

Purpose: To specify tax information Semantics: TXI02 is the monetary amount of the tax.
 TXI03 is the tax percent expressed as a decimal.
 TXI07 is a code indicating the relationship of the price or amount to the associated segment.
 ' Syntax Rules: R020306 : At least one of TXI02, TXI03 or TXI06 is required. P0405 : If either TXI04 or TXI05 is present, then the other is required. C0803 : If TXI08 is present, then TXI03 is required.

This segment is optional here.
Max. occurrences is 10.

Label	Name	Standard	Impl	Comment
963	Tax Type Code	M ID2/2	M ID2/2	Description: Code specifying the type of tax

	Code	Description
	SP	**State/Provincial Tax**
	SL	**State and Local Tax**
	SE	**State Excise Tax**
	FT	**Federal Excise Tax**
	CT	**County Tax**
	CS	**City Sales Tax**
	VA	**Value Added Tax**
	CP	**County/Parish Sales Tax**
	CA	**City Tax**

Label	Name	Standard		Impl	Comment
					ZZ **Mutually Defined**
782	Monetary Amount	O R1/18		M R1/18	Description: Monetary amount
954	Percent	O R1/10		M R1/10	Description: Percentage expressed as a decimal

3.13 SAC_01 (Service, Promotion, Allowance, or Charge Information)

N	Level	a	Max Occ.	m	Content	e
SAC	5		1		Service, Promotion, Allowance, or Charge Information	

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

This segment group is optional here.
Max. occurrences is 25.

3.13.1 SAC (Service, Promotion, Allowance, or Charge Information)

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge Semantics: If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
 SAC05 is the total amount for the service, promotion, allowance, or charge.
 If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
 SAC08 is the allowance or charge rate per unit.
 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.
 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
 SAC16 is used to identify the language being used in SAC15.
 Comments: 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.
 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.
 ' Syntax Rules: R0203 : At least one of SAC02 or SAC03 is required. P0304 : If either SAC03 or SAC04 is present, then the other is required. P0607 : If either SAC06 or SAC07 is present, then the other is required. P0910 : If either SAC09 or SAC10 is present, then the other is required. C1110 : If SAC11 is present, then SAC10 is required. L130204 : If SAC13 is present, then at least one of SAC02 or SAC04 is required. C1413 : If SAC14 is present, then SAC13 is required. C1615 : If SAC16 is present, then SAC15 is required.

This segment is optional here.
Max. occurrences is 1.

Label	Name	Standard		Impl		Comment
248	Allowance or Charge Indicator	M	ID1/1	M	ID1/1	Description: Code which indicates an allowance or charge for the service specified Standard codelist for _248 is supported. A = Freight Allowance (Credit) C = Freight Charges
1300	Service, Promotion, Allowance, or Charge Code	O	ID4/4	O	ID4/4	Description: Code identifying the service, promotion, allowance, or charge Standard codelist for _1300 is supported. Freight Code = D240

Label	Name	Standard		Impl		Comment
610	Amount	O	ID5/5	O	ID5/5	Freight Amount
352	Description	O	ID15/15	O	ID15/15	Description

3.14 CTT (Transaction Totals)

Purpose: To transmit a hash total for a specific element in the 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. Comments: This segment is intended to provide hash totals to validate transaction completeness and correctness.
' Syntax Rules: P0304 : If either CTT03 or CTT04 is present, then the other is required. P0506 : If either CTT05 or CTT06 is present, then the other is required.

This segment is optional here.
Max. occurrences is 1.

Label	Name	Standard	Impl	Comment
354	Number of Line Items	M N0/6	M N0/6	Description: Total number of line items in the transaction set
347	Hash Total	O R1/10	O R1/10	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. --------- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.
81	Weight	O R1/10	O R1/10	Description: Numeric value of weight
355	Unit or Basis for Measurement Code	O ID2/2	O ID2/2	Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Standard codelist for _355 is supported.
183	Volume	O R1/8	O R1/8	Description: Value of volumetric measure
355	Unit or Basis for Measurement Code	O ID2/2	O ID2/2	Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Standard codelist for _355 is supported.
352	Description	O AN1/80	O AN1/80	Description: A free-form description to clarify the related data elements and their content

4   Trailer Segments

4.1   SE (Transaction Set Trailer)

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

This segment is mandatory here.
Max. occurrences is 1.

Label	Name	Standard		Impl		Comment
96	Number of Included Segments	M	N0/10	M	N0/10	Description: Total number of segments included in a transaction set including ST and SE segments
329	Transaction Set Control Number	M	AN4/9	M	AN4/9	Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

4.2 GE (Functional Group Trailer)

Purpose: To indicate the end of a functional group and to provide control information
Semantics: The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06. Comments: The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

This segment is mandatory here.
Max. occurrences is 1.

Label	Name	Standard		Impl		Comment
97	Number of Transaction Sets Included	M	N0/6	M	N0/6	Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element
28	Group Control Number	M	N0/9	M	N0/9	Description: Assigned number originated and maintained by the sender

4.3 IEA (Interchange Control Trailer)

Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments

This segment is mandatory here.
Max. occurrences is 1.

Label	Name	Standard	Impl	Comment
I16	Number of Included Functional Groups	M N0/5	M N0/5	Description: A count of the number of functional groups included in an interchange
I12	Interchange Control Number	M N9/9	M N9/9	Description: A control number assigned by the interchange sender