Bostwick Braun 850 Purchase Order

X12/V4010: 850 Purchase Order

Author: SPS Commerce
Trading Partner:
Created: 05/04/2011
Modified: 07/21/2011
Notes:

850 Purchase Order

Functional Group=PO

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Transaction Set (850) 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 placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgment information.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Used
020	BEG	Beginning Segment for Purchase Order	M	1			Used
040	CUR	Currency	O	1			Used
050	REF	Reference Identification	O	8			Used
060	PER	Administrative Communications Contact	O	1			Used
080	FOB	F.O.B. Related Instructions	O	1			Used
130	ITD	Terms of Sale/Deferred Terms of Sale	O	1			Used
150	DTM	Date/Time Reference	O	6			Used
240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1			Used
LOOP ID - N9					**1**		
295	N9	Reference Identification	M	1			Must use
300	MSG	Message Text	O	4			Used
LOOP ID - N1					**6**		
310	N1	Name	M	1			Must use
330	N3	Address Information	O	1			Used
340	N4	Geographic Location	O	1			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - PO1					**100000**	**N2/010L**	
010	PO1	Baseline Item Data	M	1		N2/010	Must use
LOOP ID - PID					**3**		
050	PID	Product/Item Description	O	1			Used
100	REF	Reference Identification	O	8			Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - CTT					**1**	**N3/010L**	
010	CTT	Transaction Totals	M	1		N3/010	Must use
030	SE	Transaction Set Trailer	M	1			Used

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

2/010L   PO102 is required.

2/010   PO102 is required.

3/010L   The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.

3/010   The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.

ST   Transaction Set Header

| Pos: 010   Max: 1 |
| Heading - Mandatory |
| Loop: N/A   Elements: 2 |

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	Used

   Description: Code uniquely identifying a Transaction Set

Code	Name
850	Purchase Order

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST02	329	**Transaction Set Control Number**	M	AN	4/9	Used

   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) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BEG   Beginning Segment for Purchase Order

Pos: 020   Max: 1
Heading - Mandatory
Loop: N/A   Elements: 4

User Option (Usage): Used

To indicate the beginning of the Purchase Order Transaction Set and transmit identifying numbers and dates

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BEG01	353	**Transaction Set Purpose Code**	M	ID	2/2	Used

Description: Code identifying purpose of transaction set

Code	Name
00	Original

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BEG02	92	**Purchase Order Type Code**	M	ID	2/2	Used

Description: Code specifying the type of Purchase Order

Code	Name
DR	Direct Ship
NE	New Order

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BEG03	324	**Purchase Order Number**	M	AN	8/13	Used

Description: Identifying number for Purchase Order assigned by the orderer/purchaser
User Note 1: *Purchase Order Number*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BEG05	373	**Purchase Order Date**	M	DT	8/8	Used

Description: Date expressed as CCYYMMDD
User Note 1: *Purchase Order Date*

Semantics:

1. BEG05 is the date assigned by the purchaser to purchase order.

CUR Currency

Pos: 040	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

To specify the currency (dollars, pounds, francs, etc.) used in a transaction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR01	98	**Entity Identifier Code**	M	ID	2/3	Used

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

Code	Name
BY	Buying Party (Purchaser)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR02	100	**Currency Code**	M	ID	3/3	Used

Description: Code (Standard ISO) for country in whose currency the charges are specified

User Note 1: *Buyer's Currency Code*

Syntax Rules:

1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. C1110 - If CUR11 is present, then CUR10 is required.
4. C1210 - If CUR12 is present, then CUR10 is required.
5. C1413 - If CUR14 is present, then CUR13 is required.
6. C1513 - If CUR15 is present, then CUR13 is required.
7. C1716 - If CUR17 is present, then CUR16 is required.
8. C1816 - If CUR18 is present, then CUR16 is required.
9. C2019 - If CUR20 is present, then CUR19 is required.
10. C2119 - If CUR21 is present, then CUR19 is required.
11. L101112 - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
12. L131415 - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
13. L161718 - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
14. L192021 - If CUR19 is present, then at least one of CUR20 or CUR21 is required.

Comments:

1. See Figures Appendix for examples detailing the use of the CUR segment.

REF   Reference Identification

User Option (Usage): Used

To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Used

Description: Code qualifying the Reference Identification

Code	Name
CO	Customer Order Number
CT	Contract Number
DG	Drawing Number
IA	Internal Vendor Number
PD	Promotion/Deal Number
PR	Price Quote Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	X	AN	1/30	Used

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.

PER Administrative Communications Contact

Pos: 060	Max: 1
Heading - Optional	
Loop: N/A	Elements: 8

User Option (Usage): Used

To identify a person or office to whom administrative communications should be directed

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER01	366	**Contact Function Code**	M	ID	2/2	Used

Description: Code identifying the major duty or responsibility of the person or group named

Code	Name
BD	Buyer Name or Department

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER02	93	**Name**	O	AN	1/60	Used

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER03	365	**Communication Number Qualifier**	X	ID	2/2	Used

Description: Code identifying the type of communication number

Code	Name
TE	Telephone

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER04	364	**Communication Number**	X	AN	1/80	Used

Description: Complete communications number including country or area code when applicable

User Note 1: *Phone #*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER05	365	**Communication Number Qualifier**	X	ID	2/2	Used

Description: Code identifying the type of communication number

Code	Name
FX	Facsimile

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER06	364	**Communication Number**	X	AN	1/80	Used

Description: Complete communications number including country or area code when applicable

User Note 1: *Fax #*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER07	365	**Communication Number Qualifier**	X	ID	2/2	Used

Description: Code identifying the type of communication number

Code	Name
EM	Electronic Mail

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER08	364	**Communication Number**	X	AN	1/80	Used

Description: Complete communications number including country or area code when applicable

User Note 1: *Email*

Ref	**Id**	**Element Name**	**Req**	**Type**	**Min/Max**	**Usage**

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.
2. P0506 - If either PER05 or PER06 is present, then the other is required.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

FOB **F.O.B. Related Instructions**

Pos: 080	**Max: 1**
Heading - Optional	
Loop: N/A	**Elements: 3**

User Option (Usage): Used

To specify transportation instructions relating to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB01	146	**Shipment Method of Payment**	M	ID	2/2	Used

Description: Code identifying payment terms for transportation charges

Code	Name
CC	Collect
CF	Collect, Freight Credited Back to Customer
DF	Defined by Buyer and Seller
MX	Mixed
PC	Prepaid but Charged to Customer
PO	Prepaid Only
PP	Prepaid (by Seller)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB02	309	**Location Qualifier**	X	ID	1/2	Used

Description: Code identifying type of location

Code	Name
DE	Destination (Shipping)
OR	Origin (Shipping Point)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB03	352	**Description**	X	AN	1/80	Used

Description: A free-form description to clarify the related data elements and their content

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.

ITD Terms of Sale/Deferred Terms of Sale

Pos: 130	Max: 1
Heading - Optional	
Loop: N/A	Elements: 6

User Option (Usage): Used

To specify terms of sale

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD01	336	**Terms Type Code**	O	ID	2/2	Used

Description: Code identifying type of payment terms

Code	Name
01	Basic
05	Discount Not Applicable
06	Mixed
08	Basic Discount Offered
14	Previously agreed upon

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD02	333	**Terms Basis Date Code**	O	ID	1/2	Used

Description: Code identifying the beginning of the terms period

Code	Name
3	Invoice Date

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD03	338	**Terms Discount Percent**	X	R	1/6	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD05	351	**Terms Discount Days Due**	X	N0	1/3	Used

Description: Number of days in the terms discount period by which payment is due if terms discount is earned

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD07	386	**Terms Net Days**	O	N0	1/3	Used

Description: Number of days until total invoice amount is due (discount not applicable)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD12	352	**Description**	O	AN	1/80	Used

Description: A free-form description to clarify the related data elements and their content

User Note 1: *Terms Description*

Syntax Rules:

1. L091011 - If ITD09 is present, then at least one of ITD10 or ITD11 is required.
2. L03040513 - If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. L08040513 - If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 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: 150	Max: 6
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Used

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

Code	Name
002	Delivery Requested
010	Requested Ship
106	Required By

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM02	373	**Date**	X	DT	8/8	Used

Description: Date expressed as CCYYMMDD

Syntax Rules:

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

TD5   Carrier Details (Routing Sequence/Transit Time)

Pos: 240	**Max: 1**
Heading - Optional	
Loop: N/A	**Elements: 4**

User Option (Usage): Used

To specify the carrier and sequence of routing and provide transit time information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD502	66	**Identification Code Qualifier**	X	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
2	Standard Carrier Alpha Code (SCAC)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD503	67	**Identification Code**	X	AN	2/80	Used

Description: Code identifying a party or other code
User Note 1: *SCAC*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD505	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
User Note 1: *Carrier Name*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD512	284	**Service Level Code**	X	ID	2/2	Used

Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier
User Note 1: *Service Level for Drop Ship orders*

Code	Name
3D	Three Day Service
CX	Express Service
DC	Delivery Confirmation
SA	Same Day
SE	Second Day

Syntax Rules:

1. C0203 - If TD502 is present, then TD503 is required.
2. C0708 - If TD507 is present, then TD508 is required.
3. C1011 - If TD510 is present, then TD511 is required.
4. C1312 - If TD513 is present, then TD512 is required.
5. C1413 - If TD514 is present, then TD513 is required.
6. C1512 - If TD515 is present, then TD512 is required.
7. R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.

Semantics:

1. TD515 is the country where the service is to be performed.

Comments:

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

N9 Reference Identification

<div style="border:1px solid">
Pos: 295   Max: 1

Heading - Mandatory

Loop: N9   Elements: 2
</div>

User Option (Usage): Must use

To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	128	**Reference Identification Qualifier**	M	ID	2/3	Used

Description: Code qualifying the Reference Identification

Code	Name
ZZ	Mutually Defined

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N903	369	**Free-form Description**	X	AN	1/45	Used

Description: Free-form descriptive text

User Note 1: *Notes*

Syntax Rules:

1. C0605 - If N906 is present, then N905 is required.
2. R0203 - At least one of N902 or N903 is required.

Semantics:

1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

MSG Message Text

Pos: 300	**Max: 4**
Heading - Optional	
Loop: N9	**Elements: 1**

User Option (Usage): Used

To provide a free-form format that allows the transmission of text information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MSG01	933	**Free-Form Message Text**	M	AN	1/264	Used
		Description: Free-form message text				

Syntax Rules:

1. C0302 - If MSG03 is present, then MSG02 is required.

Semantics:

1. MSG03 is the number of lines to advance before printing.

Comments:

1. MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.
2. If MSG02 is "AA - Advance the specified number of lines before print" then MSG03 is required.

N1 Name

<table>
<tr><td>Pos: 310</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Mandatory</td></tr>
<tr><td>Loop: N1</td><td>Elements: 4</td></tr>
</table>

User Option (Usage): Must use

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	Used

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

Code	Name
BT	Bill-to-Party
ST	Ship To
VN	Vendor

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	X	AN	1/60	Used

Description: Free-form name

| N103 | 66 | **Identification Code Qualifier** | X | ID | 1/2 | Used |

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
1	D-U-N-S Number, Dun & Bradstreet
92	Assigned by Buyer or Buyer's Agent

| N104 | 67 | **Identification Code** | X | AN | 2/80 | Used |

Description: Code identifying a party or other code

Syntax Rules:

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

Pos: 330	Max: 1
Heading - Optional	
Loop: N1	**Elements: 2**

User Option (Usage): Used

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information**	M	AN	1/55	Used
		Description: Address information				
N302	166	**Address Information**	O	AN	1/55	Used
		Description: Address information				

N4   Geographic Location

Pos: 340	**Max: 1**
Heading - Optional	
Loop: N1	**Elements: 4**

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	M	AN	2/30	Used

Description: Free-form text for city name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N402	156	**State or Province Code**	M	ID	2/2	Used

Description: Code (Standard State/Province) as defined by appropriate government agency

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N403	116	**Postal Code**	M	ID	3/15	Used

Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N404	26	**Country Code**	O	ID	2/3	Used

Description: Code identifying the country

Syntax Rules:

1. C0605 - If N406 is present, then N405 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.

PO1   Baseline Item Data

<table>
<tr><td>Pos: 010</td><td style="text-align:right">Max: 1</td></tr>
<tr><td colspan="2" style="text-align:center">Detail - Mandatory</td></tr>
<tr><td>Loop: PO1</td><td>Elements: 11</td></tr>
</table>

User Option (Usage): Must use

To specify basic and most frequently used line item data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO101	350	**Assigned Identification**	O	AN	1/20	Used

Description: Alphanumeric characters assigned for differentiation within a transaction set

User Note 1: *Line #*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO102	330	**Quantity Ordered**	X	R	1/15	Used

Description: Quantity ordered

User Note 1: *Quantity Ordered*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO103	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	Name
EA	Each

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO104	212	**Unit Price**	X	R	1/17	Used

Description: Price per unit of product, service, commodity, etc.

User Note 1: *Unit Price*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO105	639	**Basis of Unit Price Code**	X	ID	2/2	Used

Description: Code identifying the type of unit price for an item

Code	Name
DI	Distributor

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO106	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code	Name
BP	Buyer's Part Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO107	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

User Note 1: *Buyer's Part #*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO108	235	**Product/Service ID Qualifier**	M	ID	2/2	Must use

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code	Name

Code Name
VP   Vendor's (Seller's) Part Number

PO109	234	**Product/Service ID**	M	AN	1/48	Must use

Description: Identifying number for a product or service

User Note 1: *Vendor's Part #*

PO110	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code Name
UP   U.P.C. Consumer Package Code (1-5-5-1)

PO111	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

User Note 1: *UPC*

Syntax Rules:

1. C0302 - If PO103 is present, then PO102 is required.
2. C0504 - If PO105 is present, then PO104 is required.
3. P0607 - If either PO106 or PO107 is present, then the other is required.
4. P0809 - If either PO108 or PO109 is present, then the other is required.
5. P1011 - If either PO110 or PO111 is present, then the other is required.
6. P1213 - If either PO112 or PO113 is present, then the other is required.
7. P1415 - If either PO114 or PO115 is present, then the other is required.
8. P1617 - If either PO116 or PO117 is present, then the other is required.
9. P1819 - If either PO118 or PO119 is present, then the other is required.
10. P2021 - If either PO120 or PO121 is present, then the other is required.
11. P2223 - If either PO122 or PO123 is present, then the other is required.
12. P2425 - If either PO124 or PO125 is present, then the other is required.

Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. PO101 is the line item identification.
3. PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

PID   Product/Item Description

Pos: 050	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

User Option (Usage): Used

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	Used

   Description: Code indicating the format of a description

Code	Name
F	Free-form

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID05	352	**Description**	X	AN	1/80	Used

   Description: A free-form description to clarify the related data elements and their content

   User Note 1: *Description*

Syntax Rules:

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

REF   Reference Identification

Pos: 100	Max: 8
Detail - Optional	
Loop: PO1	**Elements: 2**

User Option (Usage): Used

To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Used

Description: Code qualifying the Reference Identification

Code	Name
CO	Customer Order Number
CT	Contract Number
DG	Drawing Number
PD	Promotion/Deal Number
PR	Price Quote Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	X	AN	1/30	Used

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.

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Mandatory	
Loop: CTT	Elements: 3

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items**	M	N0	1/6	Used

Description: Total number of line items in the transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT02	347	**Hash Total**	O	R	1/10	Used

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.

User Note 1: *Total Quantity*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT03	81	**Weight**	X	R	1/10	Used

Description: Numeric value of weight

User Note 1: *Total Weight*

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: 030	Max: 1
Summary - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Used

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	**Number of Included Segments**	M	N0	1/10	Used

Description: Total number of segments included in a transaction set including ST and SE segments

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE02	329	**Transaction Set Control Number**	M	AN	4/9	Used

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.

GE   Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

To indicate the end of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included**	M	N0	1/6	Must use

Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element

| GE02 | 28 | **Group Control Number** | M | N0 | 1/9 | Must use |

Description: Assigned number originated and maintained by the sender

Semantics:

1. 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:

1. 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.

IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

To define the end of an interchange of zero or more functional groups and interchange-related control 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>
IEA01	I16	**Number of Included Functional Groups**	M	N0	1/5	Must use
		Description: A count of the number of functional groups included in an interchange				
IEA02	I12	**Interchange Control Number**	M	N0	9/9	Must use
		Description: A control number assigned by the interchange sender				