Garnet Hill 850 Purchase Order

X12/V5010/850: 850 Purchase Order

Author:	**SPS Commerce**
Company:	**Garnet Hill**
Notes:	**These guidelines support Ship To Consumer/Customer (DS), Ship To DC/Store (SA)**

850 Purchase Order

Functional Group=PO

Purpose: This X12 Transaction Set 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
0100	ST	Transaction Set Header	M	1			Must use
0200	BEG	Beginning Segment for Purchase Order	M	1			Must use
0400	CUR	Currency	O	1			Used
0500	REF	Reference Information	M	3			Must use
0600	PER	Administrative Communications Contact	O	2			Used
0800	FOB	F.O.B. Related Instructions	O	1			Used
1100	CSH	Sales Requirements	O	5			Used
1300	ITD	Terms of Sale/Deferred Terms of Sale	O	1			Used
1500	DTM	Date/Time Reference	O	10			Used
2400	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1			Used
LOOP ID - N9					**10**		
2950	N9	Extended Reference Information	O	1			Used
3000	MTX	Text	O	>1			Used
LOOP ID - N1					**5**		
3100	N1	Party Identification	O	1			Must use
3300	N3	Party Location	C	2			Used
3400	N4	Geographic Location	C	1			Used
3600	PER	Administrative Communications Contact	O	>1			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - PO1					**100000**	**N2/0100L**	
0100	PO1	Baseline Item Data	M	1		N2/0100	Must use
LOOP ID - PID					**10**		
0500	PID	Product/Item Description	M	1			Must use
0900	PO4	Item Physical Details	O	1			Used
2100	DTM	Date/Time Reference	C	10			Used
LOOP ID - N9					**1000**		
3300	N9	Extended Reference Information	O	1			Used
3400	MTX	Text	O	>1			Used

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - CTT					**1**	**N3/0100L**	
0100	CTT	Transaction Totals	O	1		N3/0100	Used
0200	AMT	Monetary Amount Information	O	1		N3/0200	Used
0300	SE	Transaction Set Trailer	M	1			Must use

Notes:

2/0100L	PO102 is required.
2/0100	PO102 is required.
3/0100L	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.
3/0100	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.
3/0200	If AMT is used in the summary area, then AMT01 will = TT and AMT02 will indicate total transaction amount as calculated by the sender.

Change History:

10/29/2025:
Added Optional CTT02
Added Optional AMT Segment
Added Optional PER05/06 under the N1 Loop to include Email Address

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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) **Code** **Name** 850 Purchase Order				
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.

BEG Beginning Segment for Purchase Order

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

User Option (Usage): Must use

Purpose: 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	Must use
		Description: Code identifying purpose of transaction set				
		Code List Summary (Total Codes: 66, Included: 1)				
		Code **Name** 00 Original				
BEG02	92	**Purchase Order Type Code**	M	ID	2/2	Must use
		Description: Code specifying the type of Purchase Order				
		Code List Summary (Total Codes: 76, Included: 2)				
		Code **Name** DS Dropship SA Stand-alone Order				
BEG03	324	**Purchase Order Number**	M	AN	1/22	Must use
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser				
BEG05	373	**Date**	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				

Semantics:

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

CUR Currency

Pos: 0400	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: 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	Must use
		Description: Code identifying an organizational entity, a physical location, property or an individual				
		Code List Summary (Total Codes: 1500, Included: 1)				
		Code **Name**				
		BY Buying Party (Purchaser)				
CUR02	100	**Currency Code**	M	ID	3/3	Must use
		Description: Code (Standard ISO) for country in whose currency the charges are specified				

Syntax Rules:

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

Comments:

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

REF Reference Information

Pos: 0500	Max: 3
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use
Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use
		Description: Code qualifying the Reference Identification				
		Code List Summary (Total Codes: 1731, Included: 3)				
		Code **Name** 19 Division Identifier CO Customer Order Number IA Internal Vendor Number				
		User Note 1: *Cornerstone assigned Vendor ID - Mandatory*				
REF02	127	**Reference Identification**	X	AN	1/50	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.

User Note 1:

When REF01 = 19, REF02 will contain one of the following division IDs. The division ID identifies the Cornerstone purchasing division and for drop ship orders what branded packing slip must be used.

Garnet Hill
Frontgate
Ballard Designs
Grandin Road

PER Administrative Communications Contact

Pos: 0600	Max: 2
Heading - Optional	
Loop: N/A	Elements: 6

User Option (Usage): Used

Purpose: 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	Must use
		Description: Code identifying the major duty or responsibility of the person or group named				
		Code List Summary (Total Codes: 238, Included: 1) **Code** **Name** BD Buyer Name or Department				
PER02	93	**Name**	O	AN	1/60	Used
		Description: Free-form name				
PER03	365	**Communication Number Qualifier**	X	ID	2/2	Used
		Description: Code identifying the type of communication number				
		Code List Summary (Total Codes: 42, Included: 1) **Code** **Name** TE Telephone				
PER04	364	**Communication Number**	X	AN	1/256	Used
		Description: Complete communications number including country or area code when applicable				
PER05	365	**Communication Number Qualifier**	X	ID	2/2	Used
		Description: Code identifying the type of communication number				
		Code List Summary (Total Codes: 42, Included: 1) **Code** **Name** EM Electronic Mail				
PER06	364	**Communication Number**	X	AN	1/256	Used
		Description: Complete communications number including country or area code when applicable				

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: 0800	Max: 1
Heading - Optional	
Loop: N/A	Elements: 5

User Option (Usage): Used
Purpose: 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	Must use
		Description: Code identifying payment terms for transportation charges				
		Code List Summary (Total Codes: 31, Included: 1)				
		Code **Name**				
		DF Defined by Buyer and Seller				
FOB02	309	**Location Qualifier**	X	ID	1/2	Used
		Description: Code identifying type of location				
		Code List Summary (Total Codes: 184, Included: 1)				
		Code **Name**				
		OR Origin (Shipping Point)				
FOB03	352	**Description**	O	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content				
FOB04	334	**Transportation Terms Qualifier Code**	O	ID	2/2	Used
		Description: Code identifying the source of the transportation terms				
		Code List Summary (Total Codes: 3, Included: 1)				
		Code **Name**				
		01 Incoterms				
FOB05	335	**Transportation Terms Code**	X	ID	3/3	Used
		Description: Code identifying the trade terms which apply to the shipment transportation responsibility				
		Code List Summary (Total Codes: 24, Included: 1)				
		Code **Name**				
		FOB Free on Board				

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.

CSH Sales Requirements

Pos: 1100	Max: 5
Heading - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Used

Purpose: To specify general conditions or requirements of the sale

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CSH01	563	**Sales Requirement Code**	O	ID	1/2	Used

Description: Code to identify a specific requirement or agreement of sale

Code List Summary (Total Codes: 57, Included: 2)

Code	Name
N	No Back Order
Y	Back Order if Out of Stock

Syntax Rules:

1. C0203 - If CSH02 is present, then CSH03 is required.
2. P0607 - If either CSH06 or CSH07 is present, then the other is required.
3. P0910 - If either CSH09 or CSH10 is present, then the other is required.

Semantics:

1. CSH03 is the maximum monetary amount value which the order must not exceed.
2. CSH04 is the account number to which the purchase amount is charged.
3. CSH05 is the date specified by the sender to be shown on the invoice.
4. CSH06 identifies the source of the code value in CSH07.

ITD Terms of Sale/Deferred Terms of Sale

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

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

Element Summary:

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				

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: 1500	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: 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	Must use
		Description: Code specifying type of date or time, or both date and time				
		Code List Summary (Total Codes: 1280, Included: 1)				
		Code **Name** 010 Requested Ship				
DTM02	373	**Date**	M	DT	8/8	Used
		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.

User Note 1:

One of either header or detail level ship date will always be provided. If both are present the detail level date should take precedence.

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 2400	Max: 1
Heading - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Used

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

Element Summary:

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				

Syntax Rules:

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

Loop Extended Reference Information

Pos: 2950 **Repeat: 10**
Optional
Loop: N9 **Elements: N/A**

User Option (Usage): Used
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
2950	N9	Extended Reference Information	O	1		Used
3000	MTX	Text	O	>1		Used

N9 Extended Reference Information

Pos: 2950	Max: 1
Heading - Optional	
Loop: N9	Elements: 2

User Option (Usage): Used

Purpose: 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	Must use
		Description: Code qualifying the Reference Identification				
		Code List Summary (Total Codes: 1731, Included: 1)				
		Code **Name**				
		L1 Letters or Notes				
N902	127	**Reference Identification**	X	AN	1/50	Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
		User Note 1: *The following codes will be sent in the N902 and will define the type of message in MXT02:*				
		- GEN: General Note				
		- GFT:Gift Note				

Syntax Rules:

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

Semantics:

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

MTX Text

Pos: 3000	Max: >1
Heading - Optional	
Loop: N9	Elements: 1

User Option (Usage): Used
Purpose: To specify textual data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MTX02	1551	**Textual Data**	M	AN	1/4096	Must use
		Description: To transmit large volumes of message text				

Syntax Rules:

1. C0102 - If MTX01 is present, then MTX02 is required.
2. C0302 - If MTX03 is present, then MTX02 is required.
3. C0504 - If MTX05 is present, then MTX04 is required.

Semantics:

1. MTX05 is the number of lines to advance before printing.

Comments:

1. If MTX04 is "AA - Advance the specific number of lines before print", then MTX05 is required.

Loop Party Identification

Pos: 3100 **Repeat: 5**
Optional
Loop: N1 **Elements: N/A**

User Option (Usage): Used
Purpose: To identify a party by type of organization, name, and code

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
3100	N1	Party Identification	O	1		Must use
3300	N3	Party Location	C	2		Used
3400	N4	Geographic Location	C	1		Used
3600	PER	Administrative Communications Contact	O	>1		Used

N1 Party Identification

Pos: 3100	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: 5)				
		Code **Name**				
		AG Agent/Agency				
		BT Bill-to-Party				
		User Note 1:				
		Cornerstone legal entity that needs to be included on the invoice.				
		SO Sold To If Different From Bill To				
		ST Ship To				
		User Note 1:				
		Mandatory				
		VN Vendor				
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 List Summary (Total Codes: 241, Included: 1)				
		Code **Name**				
		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				
		User Note 1: *Used when N101 = ST and this is shipping to a store or DC.*				

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: 3300 **Max: 2**
Heading - Conditional
Loop: N1 **Elements: 2**

User Option (Usage): Used
Purpose: 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	Must use
		Description: Address information				
N302	166	**Address Information**	O	AN	1/55	Used
		Description: Address information				

User Note 1:

Will always be provided when N101 = ST

N4 Geographic Location

Pos: 3400 **Max: 1**
Heading - Conditional
Loop: N1 **Elements: 4**

User Option (Usage): Used
Purpose: 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	Must use
		Description: Free-form text for city name				
N402	156	**State or Province Code**	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
		User Note 1: *Will always be provided for US addresses.*				
N403	116	**Postal Code**	M	ID	3/15	Must use
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	**Country Code**	O	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.

User Note 1:

Will always be provided when N101 = ST

PER Administrative Communications Contact

Pos: 3600	Max: >1
Heading - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

Purpose: 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	Must use
		Description: Code identifying the major duty or responsibility of the person or group named				
		Code List Summary (Total Codes: 238, Included: 1) **Code** **Name** IC Information Contact				
PER02	93	**Name**	O	AN	1/60	Used
		Description: Free-form name				
PER03	365	**Communication Number Qualifier**	X	ID	2/2	Used
		Description: Code identifying the type of communication number				
		Code List Summary (Total Codes: 42, Included: 1) **Code** **Name** TE Telephone				
PER04	364	**Communication Number**	X	AN	1/256	Used
		Description: Complete communications number including country or area code when applicable				
PER05	365	**Communication Number Qualifier**	X	ID	2/2	Used
		Description: Code identifying the type of communication number				
		Code List Summary (Total Codes: 42, Included: 1) **Code** **Name** EM Electronic Mail				
PER06	364	**Communication Number**	X	AN	1/256	Used
		Description: Complete communications number including country or area code when applicable				

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.

Loop Baseline Item Data

Pos: 0100 **Repeat: 100000**
Mandatory
Loop: PO1 **Elements: N/A**

User Option (Usage): Must use
Purpose: To specify basic and most frequently used line item data

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0100	PO1	Baseline Item Data	M	1		Must use
0500		Loop PID	M		10	Must use
0900	PO4	Item Physical Details	O	1		Used
2100	DTM	Date/Time Reference	C	10		Used
3300		Loop N9	O		1000	Used

PO1 Baseline Item Data

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: PO1	Elements: 10

User Option (Usage): Must use

Purpose: 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**	M	AN	1/20	Must use
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
		User Note 1: *The purchase order line sequence number must be returned on return transactions.*				
PO102	380	**Quantity**	M	R	1/15	Must use
		Description: Numeric value of quantity				
PO103	355	**Unit or Basis for Measurement Code**	M	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)				
		Code **Name**				
		EA Each				
PO104	212	**Unit Price**	M	R	1/17	Must use
		Description: Price per unit of product, service, commodity, etc.				
PO106	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 List Summary (Total Codes: 519, Included: 1)				
		Code **Name**				
		SK Stock Keeping Unit (SKU)				
		User Note 1:				
		Cornerstone assigned SKU number				
PO107	234	**Product/Service ID**	M	AN	1/48	Must use
		Description: Identifying number for a product or service				
PO108	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 List Summary (Total Codes: 519, Included: 1)				
		Code **Name**				
		VN Vendor's (Seller's) Item Number				
PO109	234	**Product/Service ID**	X	AN	1/48	Used
		Description: Identifying number for a product or service				

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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 List Summary (Total Codes: 519, Included: 1)				
		Code **Name** UP UCC - 12				
PO111	234	**Product/Service ID**	X	AN	1/48	Used
		Description: Identifying number for a product or service				

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.

Semantics:

1. PO102 is quantity ordered.

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.

Loop Product/Item Description

Pos: 0500 **Repeat: 10**
Mandatory
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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0500	PID	Product/Item Description	M	1		Must use

PID Product/Item Description

Pos: 0500	Max: 1
Detail - Mandatory	
Loop: PID	Elements: 3

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** **Description:** Code indicating the format of a description **Code List Summary** (Total Codes: 3, Included: 1) Code Name F Free-form	M	ID	1/1	Must use
PID02	750	**Product/Process Characteristic Code** **Description:** Code identifying the general class of a product or process characteristic **Code List Summary** (Total Codes: 238, Included: 1) Code Name 08 Product	O	ID	2/3	Used
PID05	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	M	AN	1/80	Must use

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: 0900	Max: 1
Detail - Optional	
Loop: PO1	Elements: 1

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO401	356	**Pack** **Description:** The number of inner containers, or number of eaches if there are no inner containers, per outer container	M	N0	1/6	Must use

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.

DTM Date/Time Reference

Pos: 2100	Max: 10
Detail - Conditional	
Loop: PO1	Elements: 2

User Option (Usage): Used

Purpose: 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	Must use
		Description: Code specifying type of date or time, or both date and time				
		Code List Summary (Total Codes: 1280, Included: 1)				
		Code **Name** 010 Requested Ship				
DTM02	373	**Date**	X	DT	8/8	Used
		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.

User Note 1:

One of either header or detail level ship date will always be provided. If both are present the detail level date should take precedence.

Loop Extended Reference Information

Pos: 3300 **Repeat: 1000**
Optional
Loop: N9 **Elements: N/A**

User Option (Usage): Used
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
3300	N9	Extended Reference Information	O	1		Used
3400	MTX	Text	O	>1		Used

N9 Extended Reference Information

Pos: 3300	Max: 1
Detail - Optional	
Loop: N9	Elements: 2

User Option (Usage): Used

Purpose: 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** **Description:** Code qualifying the Reference Identification **Code List Summary** (Total Codes: 1731, Included: 1) **Code** **Name** L1 Letters or Notes	M	ID	2/3	Must use
N902	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier **User Note 1:** *The following codes will be sent in the N902 and will define the type of message in MXT02:* *- CCG: Customization*	X	AN	1/50	Used

Syntax Rules:

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

Semantics:

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

MTX Text

Pos: 3400	Max: >1
Detail - Optional	
Loop: N9	Elements: 1

User Option (Usage): Used
Purpose: To specify textual data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MTX02	1551	**Textual Data**	X	AN	1/4096	Used
		Description: To transmit large volumes of message text				

Syntax Rules:

1. C0102 - If MTX01 is present, then MTX02 is required.
2. C0302 - If MTX03 is present, then MTX02 is required.
3. C0504 - If MTX05 is present, then MTX04 is required.

Semantics:

1. MTX05 is the number of lines to advance before printing.

Comments:

1. If MTX04 is "AA - Advance the specific number of lines before print", then MTX05 is required.

User Note 1:

If items are being customized (colors, personalization ect) those details will be sent in the MTX02, with N902 = CCG.

Loop Transaction Totals

Pos: 0100 **Repeat: 1**
Optional
Loop: CTT **Elements: N/A**

User Option (Usage): Used
Purpose: To transmit a hash total for a specific element in the transaction set

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0100	CTT	Transaction Totals	O	1		Used
0200	AMT	Monetary Amount Information	O	1		Used

CTT Transaction Totals

Pos: 0100	Max: 1
Summary - Optional	
Loop: CTT	Elements: 2

User Option (Usage): Used

Purpose: 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	Must use
		Description: Total number of line items in the transaction set				
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. 18E2 Fifth occurrence of value being hashed. -------- 1873 Hash Total				
		User Note 1: *Used to communicate a summary quantity 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.

AMT Monetary Amount Information

Pos: 0200 **Max: 1**
Summary - Optional
Loop: CTT **Elements: 2**

User Option (Usage): Used
Purpose: To indicate the total monetary amount

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AMT01	522	**Amount Qualifier Code** **Description:** Code to qualify amount **Code List Summary** (Total Codes: 1765, Included: 1) **Code** **Name** TT Total Transaction Amount **User Note 1:** *Total amount of the transaction. Sum of the item qty * price.*	M	ID	1/3	Must use
AMT02	782	**Monetary Amount** **Description:** Monetary amount	M	R	1/18	Must use

SE Transaction Set Trailer

Pos: 0300	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:

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