

# **850 Purchase Order**

**X12/V4010/850 : 850 Purchase Order**

**Version: 1.0**

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# 850 Purchase Order

Functional Group=**PO**

**Purpose:** 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:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BEG	Beginning Segment for Purchase Order	M	1			Must use
050	REF	Reference Identification	M	>1			Must use
060	PER	Administrative Communications Contact	M	3			Must use
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	M	10			Must use
240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			Used
<b>LOOP ID - N9</b>					<b>1000</b>		
295	N9	Reference Identification	M	1			Must use
300	MSG	Message Text	M	1000			Must use
<b>LOOP ID - N1</b>					<b>200</b>		
310	N1	Name	M	1			Must use
330	N3	Address Information	M	2			Must use
340	N4	Geographic Location	M	>1			Must use

## Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<b>LOOP ID - PO1</b>					<b>100000</b>	<b>N2/010L</b>	
010	PO1	Baseline Item Data	M	1			Must use
<b>LOOP ID - PID</b>					<b>1000</b>		
050	PID	Product/Item Description	M	1			Must use
<b>LOOP ID - N9</b>					<b>1000</b>		
330	N9	Reference Identification	M	1			Must use
340	MSG	Message Text	M	1000			Must use

## Summary:

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

**Notes:**

2/010L 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.

**Change History:**

*01/31/2023*

*Added UPC as an optional item identifier.*

*04/26/2023*

*Added TD504 and TD512 as optional fields with set lists.*

*Added BC as a qualifier in the PO1 segment.*

*11/3/2023*

*Added FOB01 code PU*

*1/10/2024*

*Added FOB01 codes CC and PP*

# ST Transaction Set Header

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

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use

**Description:** Code uniquely identifying a Transaction Set

**CodeList Summary** (Total Codes: 298, Included: 1)

Code Name

850 Purchase Order

ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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**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):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BEG01	353	<b>Transaction Set Purpose Code</b>	M	ID	2/2	Must use
<b>Description:</b> Code identifying purpose of transaction set						
<b>CodeList Summary</b> (Total Codes: 65, Included: 1)						
<b>Code Name</b>						
00 Original						
BEG02	92	<b>Purchase Order Type Code</b>	M	ID	2/2	Must use
<b>Description:</b> Code specifying the type of Purchase Order						
<b>CodeList Summary</b> (Total Codes: 69, Included: 2)						
<b>Code Name</b>						
DS Dropship						
SA Stand-alone Order						
BEG03	324	<b>Purchase Order Number</b>	M	AN	1/22	Must use
<b>Description:</b> Identifying number for Purchase Order assigned by the orderer/purchaser						
BEG05	373	<b>Date</b>	M	DT	8/8	Must use
<b>Description:</b> Date expressed as CCYYMMDD						

## Semantics:

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

# REF Reference Identification

Pos: 050	Max: >1
Heading - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Must use

**Purpose:** To specify identifying information

## Element Summary:

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

**Description:** Code qualifying the Reference Identification

**CodeList Summary** (Total Codes: 1503, Included: 1)

**Code Name**

IA Internal Vendor Number

REF02	127	Reference Identification	M	AN	1/30	Must use
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**Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

## Syntax Rules:

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

## Semantics:

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

# PER Administrative Communications Contact

Pos: 060	Max: 3
Heading - Mandatory	
Loop: N/A	Elements: 4

**User Option (Usage):** Must use

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

## 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>
PER01	366	<b>Contact Function Code</b>	M	ID	2/2	Must use
<p><b>Description:</b> Code identifying the major duty or responsibility of the person or group named</p> <p><b>CodeList Summary</b> (Total Codes: 230, Included: 1)</p> <p><u>Code</u> <u>Name</u>                      BD Buyer Name or Department</p>						
PER02	93	<b>Name</b>	O	AN	1/60	Used
<p><b>Description:</b> Free-form name</p>						
PER03	365	<b>Communication Number Qualifier</b>	O	ID	2/2	Used
<p><b>Description:</b> Code identifying the type of communication number</p> <p><b>CodeList Summary</b> (Total Codes: 40, Included: 1)</p> <p><u>Code</u> <u>Name</u>                      TE Telephone</p>						
PER04	364	<b>Communication Number</b>	O	AN	1/80	Used
<p><b>Description:</b> Complete communications number including country or area code when applicable</p>						

## 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: 1

**User Option (Usage):** Used

**Purpose:** To specify transportation instructions relating to shipment

## Element Summary:

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

**Description:** Code identifying payment terms for transportation charges

**CodeList Summary** (Total Codes: 28, Included: 5)

<u>Code</u>	<u>Name</u>
CC	Collect
PC	Prepaid but Charged to Customer
PO	Prepaid Only
PP	Prepaid (by Seller)
PU	Pickup

## 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: 3

**User Option (Usage):** Used

**Purpose:** To specify terms of sale

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD03	338	Terms Discount Percent	O	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

ITD05	351	Terms Discount Days Due	X	N0	1/3	Used
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**Description:** Number of days in the terms discount period by which payment is due if terms discount is earned

ITD12	352	Description	O	AN	1/80	Used
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**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: 150	Max: 10
Heading - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Must use

**Purpose:** To specify pertinent dates and times

## Element Summary:

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

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

**CodeList Summary** (Total Codes: 1112, Included: 2)

<u>Code</u>	<u>Name</u>
002	Delivery Requested
010	Requested Ship

DTM02	373	Date	M	DT	8/8	Must use
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**Description:** Date expressed as CCYYMMDD

## 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.

# TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 240	Max: 12
Heading - Optional	
Loop: N/A	Elements: 3

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD504	91	Transportation Method/Type Code	O	ID	1/2	Used

**Description:** Code specifying the method or type of transportation for the shipment

**CodeList Summary** (Total Codes: 71, Included: 2)

**Code Name**

- H Customer Pickup
- LT Less Than Trailer Load (LTL)

TD505	387	Routing	M	AN	1/35	Must use
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**Description:** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

TD512	284	Service Level Code	O	ID	2/2	Used
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**Description:** Code indicating the level of transportation service or the billing service offered by the transportation carrier

**CodeList Summary** (Total Codes: 66, Included: 5)

**Code Name**

- AM A.M.
- G2 Standard Service
- ND Next Day Air
- SC Second Day Air
- SD Saturday

## 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 Reference Identification

Pos: 295	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:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
295	N9	Reference Identification	M	1		Must use
300	MSG	Message Text	M	1000		Must use

# N9 Reference Identification

Pos: 295	Max: 1
Heading - Mandatory	
Loop: N9	Elements: 2

**User Option (Usage):** Must use

**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier

## 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>
N901	128	Reference Identification Qualifier	M	ID	2/3	Must use

**Description:** Code qualifying the Reference Identification

**CodeList Summary** (Total Codes: 1503, Included: 1)

<u>Code</u>	<u>Name</u>
L1	Letters or Notes

N902	127	Reference Identification	M	AN	1/30	Must use
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**Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

**User Note 1:** *This field will define the type of note sent in the MSG01 GEN - General 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.

# MSG Message Text

Pos: 300	Max: 1000
Heading - Mandatory	
Loop: N9	Elements: 1

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MSG01	933	Free-Form Message Text	M	AN	1/264	Must use

**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.

# Loop Name

Pos: 310	Repeat: 200
Mandatory	
Loop: N1	Elements: N/A

**User Option (Usage):** Must use

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
310	N1	Name	M	1		Must use
330	N3	Address Information	M	2		Must use
340	N4	Geographic Location	M	>1		Must use



# N1 Name

<b>Pos: 310</b>	<b>Max: 1</b>
<b>Heading - Mandatory</b>	
<b>Loop: N1</b>	<b>Elements: 4</b>

**User Option (Usage):** Must use

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

## 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>
N101	98	<b>Entity Identifier Code</b>	M	ID	2/3	Must use

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

**CodeList Summary** (Total Codes: 1312, Included: 3)

**Code Name**

BT Bill-to-Party  
 ST Ship To  
 VN Vendor

N102	93	<b>Name</b>	O	AN	1/60	Used
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**Description:** Free-form name

N103	66	<b>Identification Code Qualifier</b>	O	ID	1/2	Used
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**Description:** Code designating the system/method of code structure used for Identification Code (67)

**CodeList Summary** (Total Codes: 215, Included: 1)

**Code Name**

92 Assigned by Buyer or Buyer's Agent

N104	67	<b>Identification Code</b>	O	AN	2/80	Used
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**Description:** Code identifying a party or other code

**User Note 1:** N104 will be sent for the ship to address when shipping to a Baker location.

## 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 Address Information

Pos: 330	Max: 2
Heading - Mandatory	
Loop: N1	Elements: 2

**User Option (Usage):** Must use

**Purpose:** To specify the location of the named party

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Must use
		<b>Description:</b> Address information				
		<b>User Note 1:</b> <i>When N302 is present, then N301 is required.</i>				
N302	166	Address Information	O	AN	1/55	Used
		<b>Description:</b> Address information				

# N4 Geographic Location

Pos: 340	Max: >1
Heading - Mandatory	
Loop: N1	Elements: 4

**User Option (Usage):** Must use

**Purpose:** To specify the geographic place of the named party

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	<b>City Name</b>	M	AN	2/30	Must use
		<b>Description:</b> Free-form text for city name				
N402	156	<b>State or Province Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency				
N403	116	<b>Postal Code</b>	M	ID	3/15	Must use
		<b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	<b>Country Code</b>	O	ID	2/3	Used
		<b>Description:</b> 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.

# Loop Baseline Item Data

Pos: 010	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:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	PO1	Baseline Item Data	M	1		Must use
050		Loop PID	M		1000	Must use
330		Loop N9	O		1000	Used

# PO1 Baseline Item Data

Pos: 010	Max: 1
Detail - Mandatory	
Loop: PO1	Elements: 12

**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:** *This value must match on return documents.*

PO102	330	Quantity Ordered	M	R	1/15	Must use
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**Description:** Quantity ordered

PO103	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
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**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

**CodeList Summary** (Total Codes: 794, Included: 43)

**Code Name**

- BD Bundle
- BG Bag
- BO Bottle
- BX Box
- CA Case
- CH Container
- CL Cylinder
- CN Can
- CP Crate
- CT Carton
- DR Drum
- DZ Dozen
- EA Each
- FT Foot
- GA Gallon
- GS Gross
- HU Hundred
- IN Inch
- JO Joint
- JR Jar
- JU Jug
- KT Kit
- LB Pound
- LF Linear Foot
- LN Length
- OZ Ounce - Av
- PA Pail

<u>Code</u>	<u>Name</u>
PC	Piece
PH	Pack (PAK)
PK	Package
PL	Pallet/Unit Load
PR	Pair
PT	Pint
QT	Quart
RE	Reel
RL	Roll
SF	Square Foot
SH	Sheet
SQ	Square
ST	Set
SV	Skid
TC	Truckload
YD	Yard

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)

**CodeList Summary** (Total Codes: 477, Included: 1)

<u>Code</u>	<u>Name</u>
BP	Buyer's Part 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** O ID 2/2 Used

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

**CodeList Summary** (Total Codes: 477, Included: 4)

<u>Code</u>	<u>Name</u>
BC	Supplier Brand Code
CB	Buyer's Catalog Number
UP	U.P.C. Consumer Package Code (1-5-5-1)
VP	Vendor's (Seller's) Part Number

PO109 234 **Product/Service ID** O AN 1/48 Used

**Description:** Identifying number for a product or service

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

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

**CodeList Summary** (Total Codes: 477, Included: 4)

**Code Name**

- BC Supplier Brand Code
- CB Buyer's Catalog Number
- UP U.P.C. Consumer Package Code (1-5-5-1)
- VP Vendor's (Seller's) Part Number

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

**Description:** Identifying number for a product or service

PO112 235 **Product/Service ID Qualifier** O ID 2/2 Used

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

**CodeList Summary** (Total Codes: 477, Included: 4)

**Code Name**

- BC Supplier Brand Code
- CB Buyer's Catalog Number
- UP U.P.C. Consumer Package Code (1-5-5-1)
- VP Vendor's (Seller's) Part Number

PO113 234 **Product/Service ID** O 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.

**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: 050	Repeat: 1000
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:

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



# PID Product/Item Description

Pos: 050	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:

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

**Description:** Code indicating the format of a description

**CodeList Summary** (Total Codes: 3, Included: 1)

Code Name

F Free-form

PID02	750	Product/Process Characteristic Code	M	ID	2/3	Must use
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**Description:** Code identifying the general class of a product or process characteristic

**CodeList Summary** (Total Codes: 217, Included: 1)

Code Name

08 Product

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

## 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.

# Loop Reference Identification

Pos: 330	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:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
330	N9	Reference Identification	M	1		Must use
340	MSG	Message Text	M	1000		Must use

# N9 Reference Identification

Pos: 330	Max: 1
Detail - Mandatory	
Loop: N9	Elements: 2

**User Option (Usage):** Must use

**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier

## 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>
N901	128	Reference Identification Qualifier	M	ID	2/3	Must use

**Description:** Code qualifying the Reference Identification

**CodeList Summary** (Total Codes: 1503, Included: 1)

<u>Code</u>	<u>Name</u>
L1	Letters or Notes

N902	127	Reference Identification	M	AN	1/30	Must use
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**Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

**User Note 1:** *This field will define the type of note sent in the MSG01 GEN - General 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.

# MSG Message Text

Pos: 340	Max: 1000
Detail - Mandatory	
Loop: N9	Elements: 1

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MSG01	933	Free-Form Message Text	M	AN	1/264	Must use

**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.

# Loop Transaction Totals

Pos: 010	Repeat: 1
Mandatory	
Loop: CTT	Elements: N/A

**User Option (Usage):** Must use

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	CTT	Transaction Totals	M	1		Must use

# CTT Transaction Totals

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

**User Option (Usage):** Must use

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

## Element Summary:

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

**Description:** Total number of line items in the transaction set

## 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):** Must use

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	<b>Number of Included Segments</b>	M	N0	1/10	Must use
		<b>Description:</b> Total number of segments included in a transaction set including ST and SE segments				
SE02	329	<b>Transaction Set Control Number</b>	M	AN	4/9	Must use
		<b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

## Comments:

- SE is the last segment of each transaction set.