# Sprouts Farmers Market - Indirect Program 850 Purchase Order

**X12/V5010/850: 850 Purchase Order**

**Author:** SPS Commerce

**Company:** Sprouts Farmers Market

**Notes:**

# 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 |
| 0500 | REF | Reference Information | M | 1 | | | Must use |
| 0600 | PER | Administrative Communications Contact | O | 3 | | | Used |
| 1500 | DTM | Date/Time Reference | O | 4 | | | Used |
| **LOOP ID - N9** | | | | | **10** | | |
| 2950 | N9 | Extended Reference Information | M | 1 | | | Must use |
| 3000 | MTX | Text | M | 1 | | | Must use |
| **LOOP ID - N1** | | | | | **4** | | |
| 3100 | N1 | Party Identification | M | 1 | | | Must use |
| 3300 | N3 | Party Location | O | 2 | | | Used |
| 3400 | N4 | Geographic Location | M | 1 | | | Must use |
| 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** | | | | | **5** | | |
| 0500 | PID | Product/Item Description | M | 1 | | | Must use |

## 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 |
| 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.

## General Usage:

**Purchase Orders**– Suppliers will be required to support the receipt of Purchase Order data from Sprouts Farmers Market as part of the process of automating  orders. Order types appear to suppliers as stand alone shipments.

## Change History:

*3/5/2019*
*-Removed REF01 qualifers 'CT' (Contract Number) and 'DP' (Department Number)*

*5/7/2019*
*- Added 'HR' (Hours) as a valid PO103 code*

*8/7/2019*
*- Added N101 qualifier of BT for the Sprouts Bill To address*
*- Added the PER segment to the N1 loop. See segment for additional details.*

# 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

**CodeList Summary** (Total Codes: 318, Included: 1)

| Code | Name |
|---|---|
| 850 | Purchase Order |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| 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

**CodeList Summary** (Total Codes: 66, Included: 2)

| Code | Name |
|---|---|
| 00 | Original |
| 05 | Replace |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| BEG02 | 92 | **Purchase Order Type Code** | M | ID | 2/2 | Must use |

**Description:** Code specifying the type of Purchase Order

**CodeList Summary** (Total Codes: 76, Included: 1)

| Code | Name |
|---|---|
| SA | Stand-alone Order |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| BEG03 | 324 | **Purchase Order Number** | M | AN | 1/22 | Must use |

**Description:** Identifying number for Purchase Order assigned by the orderer/purchaser

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| 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

**User Note 1:** *Purchase Order Date*

## Semantics:

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

# REF   Reference Information

**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

**CodeList Summary** (Total Codes: 1731, Included: 1)

| Code | Name |
|------|------|
| IA | Internal Vendor Number |

**User Note 1:**

*Sprouts assigned vendor ID - Mandatory*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| REF02 | 127 | **Reference Identification** | M | AN | 1/50 | Must use |

**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: 0600        Max: 3**
**Heading - Optional**
**Loop: N/A        Elements: 4**

**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

**CodeList Summary** (Total Codes: 238, Included: 1)

**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

**CodeList Summary** (Total Codes: 42, Included: 1)

**Code  Name**

EM      Electronic Mail

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-----|-----|-----|-----|-----|
| PER04 | 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.

# DTM  Date/Time Reference

**Pos: 1500          Max: 4**
**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

    **CodeList Summary** (Total Codes: 1280, Included: 1)

    **Code  Name**

    002    Delivery Requested

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-----|-----|-----|-----|-----|
| DTM02 | 373 | **Date** | M | DT | 8/8 | Must use |

    **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:

*If no date is provided, it is expected that orders are shipped as soon as possible.*

# 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 | M | 1 | | Must use |
| 3000 | MTX | Text | M | 1 | | Must use |

# N9 Extended Reference Information

**Pos: 2950          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:

| 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

**CodeList Summary** (Total Codes: 1731, Included: 1)

| Code | Name |
|------|-----------------|
| L1 | Letters or Notes |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|-----|--------------------------------|-----|------|---------|----------|
| N902 | 127 | **Reference Identification** | M | AN | 1/50 | Must use |

**Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

**User Note 1:**

*N902 will contain one of the following 3 characters codes to identify the type of note to follow in MTX02.*
   *. 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.

# **MTX**  **Text**

<table>
<tr><td><b>Pos: 3000</b></td><td><b>Max: 1</b></td></tr>
<tr><td colspan="2"><b>Heading - Mandatory</b></td></tr>
<tr><td><b>Loop: N9</b></td><td><b>Elements: 1</b></td></tr>
</table>

**User Option (Usage):** Must use
**Purpose:** To specify textual data

## 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> |
|------|------|-------------|------|------|---------|--------|
| MTX02 | 1551 | **Textual Data** | M | AN | 1/4096 | Must use |

    **Description:** To transmit large volumes of message text

    **User Note 1:**

    *If N902 =*

      *.   GEN - MTX02 is a General Note*

## 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: 4 |
|---|---|
| **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:

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

# N1  Party Identification

| | |
|---|---|
| **Pos: 3100** | **Max: 1** |
| **Heading - Mandatory** | |
| **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

**CodeList Summary** (Total Codes: 1499, Included: 2)

| Code | Name |
|------|------|
| BT | Bill-to-Party |
| ST | Ship To |

> **User Note 1:**
>
> *Mandatory*

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

**Description:** Free-form name

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|-----|-------------------------------|-----|------|---------|----------|
| N103 | 66 | **Identification Code Qualifier** | O | ID | 1/2 | Used |

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

**CodeList Summary** (Total Codes: 241, Included: 1)

| Code | Name |
|------|------|
| 92 | Assigned by Buyer or Buyer's Agent |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|-----|-------------------------------|-----|------|---------|----------|
| N104 | 67 | **Identification Code** | O | AN | 2/80 | Used |

**Description:** Code identifying a party or other code

> **User Note 1:** *If N104 represents the Sprouts Farmers Market store number and the value contains less than 4 digits, the store number will come over with leading zero(s) to populate a 4 digit value.*
>
> *Example: Store 657 will be sent as 0657*

## 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 - Optional** | |
| **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 | | | | |

# N4   Geographic Location

**Pos: 3400          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:

| 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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|------|------------------------|------|------|---------|----------|
| N402 | 156 | **State or Province Code** | O | 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 | Must use |

> **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. 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.

# PER  Administrative Communications Contact

**Pos: 3600          Max: 1**
**Heading - Optional**
**Loop: N1          Elements: 3**

**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

**CodeList Summary** (Total Codes: 238, Included: 1)

**Code  Name**
IC      Information Contact

| 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

**CodeList Summary** (Total Codes: 42, Included: 1)

**Code  Name**
EM      Electronic Mail

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| PER04 | 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

<table>
<tr><td><strong>Pos: 0100</strong></td><td><strong>Repeat: 100000</strong></td></tr>
<tr><td colspan="2"><strong>Mandatory</strong></td></tr>
<tr><td><strong>Loop: PO1</strong></td><td><strong>Elements: N/A</strong></td></tr>
</table>

**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 | | 5 | Must use |

# PO1  **Baseline Item Data**

<table>
<tr><td>Pos: 0100</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Mandatory</td></tr>
<tr><td>Loop: PO1</td><td>Elements: 6</td></tr>
</table>

**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:** *Purchase Order Line Sequence Number must be returned on all return transactions.*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|------------|-----|------|---------|-------|
| PO102 | 380 | **Quantity** | M | R | 1/15 | Must use |

**Description:** Numeric value of quantity

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|------------|-----|------|---------|-------|
| 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

**CodeList Summary** (Total Codes: 844, Included: 33)

| Code | Name |
|------|------|
| BD | Bundle |
| BG | Bag |
| BK | Book |
| BO | Bottle |
| BX | Box |
| CA | Case |
| CG | Card |
| CT | Carton |
| DH | Miles |
| DZ | Dozen |
| EA | Each |
| GS | Gross |
| HR | Hours |
| HU | Hundred |
| HV | Hundred Weight (Short) |
| KT | Kit |
| LF | Linear Foot |
| LO | Lot |
| PA | Pail |
| PD | Pad |
| PH | Pack (PAK) |
| PL | Pallet/Unit Load |
| PR | Pair |
| Q4 | Fifty |
| RL | Roll |
| RM | Ream |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | **Code** **Name** | | | | |
| | | SE | Section | | | |
| | | SH | Sheet | | | |
| | | ST | Set | | | |
| | | TB | Tube | | | |
| | | TC | Truckload | | | |
| | | TH | Thousand | | | |
| | | TY | Tray | | | |
| 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** | 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: 519, Included: 1)

| **Code** | **Name** |
|---|---|
| VN | Vendor's (Seller's) Item Number |

| | | | | | | |
|---|---|---|---|---|---|---|
| PO107 | 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.

## 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: 5 |
|---|---|
| **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 |

### User Note 1:

*The Product Description (PID05, when PID01=F and PID02=08) could repeat (up to 5 iterations) if needed.*

# PID    Product/Item Description

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

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

## Element Summary:

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

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

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

| Code | Name |
|---|---|
| F | Free-form |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PID02 | 750 | **Product/Process Characteristic Code** | M | ID | 2/3 | Must use |

**Description:** Code identifying the general class of a product or process characteristic

**CodeList Summary** (Total Codes: 238, Included: 1)

| Code | Name |
|---|---|
| 08 | Product |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PID05 | 352 | **Description** | M | AN | 1/80 | Must use |

**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 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 |

# CTT  **Transaction Totals**

| Pos: 0100 | Max: 1 |
|---|---|
| **Summary - Optional** | |
| **Loop: CTT** | **Elements: 1** |

**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

## 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

<div style="border:1px solid black">

**Pos: 0300        Max: 1**

**Summary - Mandatory**

**Loop: N/A        Elements: 2**

</div>

**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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------|-----|------|---------|-------|
| 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.