

850 Purchase Order

Functional Group ID=**PO**

Introduction:

This guideline provides a description and technical lay-out of the data segments recommended for use when creating EDI purchase orders (ASC X12 transaction set 850) for 3M. 3M can accept many valid ASC X12 data segments and elements; however, this guideline includes only those that are most commonly required. If you have data requirements that are not covered in this document, please consult your 3M EDI contact. The ASC X12 version presented in this guideline is 004010. If you cannot generate purchase orders in 004010, please consult your 3M EDI contact for information on the other ASC X12 versions accepted by 3M.

Some general recommendations are:

1. Send only the data that is required to process the purchase order. Not all segments or data elements defined in this guideline need to be sent. For example, do not send terms or freight carrier information if this is standard information that is mutually understood and applies to all orders. However, if there are special terms or carrier information which must be communicated, send this data in the appropriate segment (i.e., ITD and TD5 respectively).
2. Whenever possible, do not send miscellaneous text data. Such data is usually not machine processable and diminishes the advantage and efficiency of EDI.
3. 3M recommends the use of the Uniform Product Code (UPC) for product identification. In addition, you may send in a part or catalog number. Item description is not needed unless a UPC or part number that uniquely defines the product is not available.
4. Use location numbers for ship-to and charge-to addresses. This allows for the efficient lookup of address information. Examples of paper copy purchase orders and their ASC X12 interpretation can be found at the back of this guideline.

Note: For illustration purposes only, all examples use an close curly brace (}) as the data element separator and a tilde (~) as the segment terminator. In actual practice, values must be chosen that do not conflict with the data.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BEG	Beginning Segment for Purchase Order	M	1		
	050	REF	Reference Identification	O	>1		
	060	PER	Administrative Communications Contact	O	3		
	080	FOB	F.O.B. Related Instructions	O	>1		
LOOP ID - SAC						25	
	120	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	150	DTM	Date/Time Reference	O	10		
	240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
LOOP ID - N1						200	
	310	N1	Name	O	1		
	320	N2	Additional Name Information	O	2		
	330	N3	Address Information	O	2		
	340	N4	Geographic Location	O	>1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - PO1						100000	
M	010	PO1	Baseline Item Data	M	1		n1
LOOP ID - PID						1000	
	050	PID	Product/Item Description	O	1		
	100	REF	Reference Identification	O	>1		
	210	DTM	Date/Time Reference	O	10		
LOOP ID - SCH						200	
	295	SCH	Line Item Schedule	O	1		n2

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - CTT						1	
	010	CTT	Transaction Totals	O	1		n3
	020	AMT	Monetary Amount	O	1		n4
M	030	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. PO102 is required.
2. The SCH segment is used to specify various quantities of items ordered that are to be scheduled. When this segment is used the unit of measurement code (SCH02) should always be identical to the unit of measurement code in the associated PO1 segment (PO103) and the sum of values of quantity (SCH01) should always equal the quantity ordered (PO102) in the PO1 segment.
3. 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.
4. If AMT is used in the summary area, then AMT01 will = TT and AMT02 will indicate total transaction amount as calculated by the sender.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 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).
Comments:
Business Rules: Variable Name: STST
Notes: **Example**
 ST}850}0008~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	ST01	143 Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	
M	ST02	329 Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

Segment: **BEG** Beginning Segment for Purchase Order
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Purchase Order Transaction Set and transmit identifying numbers and dates

Syntax Notes:
Semantic Notes: 1 BEG05 is the date assigned by the purchaser to purchase order.

Comments:
Notes:

Example

BEG}00}NE}4511798331}}20190108}81643974~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BEG01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original 04 Change 06 Confirmation	M ID 2/2
M	BEG02	92	Purchase Order Type Code Code specifying the type of Purchase Order DS Dropship NE New Order PR Promotion RO Rush Order SA Stand-alone Order	M ID 2/2
M	BEG03	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser	M AN 1/22
	BEG04	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O AN 1/30
M	BEG05	373	Date Date expressed as CCYYMMDD	M DT 8/8
	BEG06	367	Contract Number Contract number	O AN 1/30

Segment: **REF** Reference Identification
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:
Notes:

Example
REF}CR}0000267807~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			CR Customer Reference Number	
			CT Contract Number	
			DP Department Number	
			IA Internal Vendor Number	
			PD Promotion/Deal Number	
	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **PER** Administrative Communications Contact
Position: 060
Loop:
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:

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

Semantic Notes:

Comments:

Notes:

Example

PER}BD}Amy Henderson }TE}419-248-6391~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	PER01	366 Contact Function Code	M ID 2/2
		Code identifying the major duty or responsibility of the person or group named	
		BD Buyer Name or Department	
		CW Confirmed With	
		OC Order Contact	
		RE Receiving Contact	
	PER02	93 Name	O AN 1/60
		Free-form name	
	PER03	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number	
		EM Electronic Mail	
		TE Telephone	
	PER04	364 Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable	

Segment: **FOB** F.O.B. Related Instructions
Position: 080
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify transportation instructions relating to shipment
Syntax Notes:

- 1 If FOB03 is present, then FOB02 is required.
- 2 If FOB04 is present, then FOB05 is required.
- 3 If FOB07 is present, then FOB06 is required.
- 4 If FOB08 is present, then FOB09 is required.

Semantic Notes:

- 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.

Comments:
Notes: **Example**
 FOB}CC}DE}12345~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	FOB01	146	Shipment Method of Payment	M ID 2/2
			Code identifying payment terms for transportation charges	
			CC Collect	
			CF Collect, Freight Credited Back to Customer	
			PC Prepaid but Charged to Customer	
			PP Prepaid (by Seller)	
			PU Pickup	
	FOB02	309	Location Qualifier	X ID 1/2
			Code identifying type of location	
			DE Destination (Shipping)	
			OR Origin (Shipping Point)	
	FOB03	352	Description	O AN 1/80
			A free-form description to clarify the related data elements and their content	

Segment: SAC Service, Promotion, Allowance, or Charge Information
Position: 120
Loop: SAC Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

- Syntax Notes:**
- 1 At least one of SAC02 or SAC03 is required.
 - 2 If either SAC03 or SAC04 is present, then the other is required.
 - 3 If either SAC06 or SAC07 is present, then the other is required.
 - 4 If either SAC09 or SAC10 is present, then the other is required.
 - 5 If SAC11 is present, then SAC10 is required.
 - 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
 - 7 If SAC14 is present, then SAC13 is required.
 - 8 If SAC16 is present, then SAC15 is required.

- Semantic Notes:**
- 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
 - 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
 - 3 SAC08 is the allowance or charge rate per unit.
 - 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
 - 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
 - 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
 - 7 SAC16 is used to identify the language being used in SAC15.

- Comments:**
- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
 - 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes: Example

SAC*A* H850***32*6*.25*****Tax~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	SAC01	248 Allowance or Charge Indicator	M ID 1/1
		Code which indicates an allowance or charge for the service specified	
		A Allowance	
		C Charge	
		P Promotion	
	SAC02	1300 Service, Promotion, Allowance, or Charge Code	X ID 4/4
		Code identifying the service, promotion, allowance, or charge	
		C000 Defective Allowance	
		C310 Discount	
		D240 Freight	
		E740 New Store Allowance	
		E750 New Store Discount	
		F050 Other (See related description)	
		F800 Promotional Allowance	
		H000 Special Allowance	

		H850	Tax		
		ZZZZ	Mutually Defined		
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code		X	AN 1/10
		Agency maintained code identifying the service, promotion, allowance, or charge			
SAC05	610	Amount		O	N2 1/15
		Monetary amount			
SAC06	378	Allowance/Charge Percent Qualifier		X	ID 1/1
		Code indicating on what basis allowance or charge percent is calculated			
		3	Discount/Gross		
		4	Discount/Net		
		6	Base Price Amount		
SAC07	332	Percent		X	R 1/6
		Percent expressed as a percent			
SAC15	352	Description		X	AN 1/80
		A free-form description to clarify the related data elements and their content			

Segment: **DTM** Date/Time Reference
Position: 150
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

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

Semantic Notes:

Comments:

Notes:

Example

DTM}002}20190120~

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
		001	Cancel After	
		002	Delivery Requested	
		074	Requested for Delivery (Prior to and Including)	
	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

Segment: **TD5** Carrier Details (Routing Sequence/Transit Time)
Position: 240
Loop:
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:

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

Semantic Notes:
Comments:

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

Notes: **Example**
TD5}O}2}UPSN}D}UNITED PARCEL SERVICE~

Data Element Summary

Ref. <u>Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
TD501	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement O Origin Carrier (Air, Motor, or Ocean)	O ID 1/2
TD502	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 2 Standard Carrier Alpha Code (SCAC)	X ID 1/2
TD503	67	Identification Code Code identifying a party or other code	X AN 2/80
TD504	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment A Air AE Air Express D Parcel Post U Private Parcel Service	X ID 1/2
TD505	387	Routing Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	X AN 1/35

Segment: **N1** Name
Position: 310
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
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.
Notes: **Example**
 N1}BT}Corner Sales}92}08923235 ~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		BS Bill and Ship To	
		BT Bill-to-Party	
		ST Ship To	
	N102	93 Name	X AN 1/60
		Free-form name	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		1 D-U-N-S Number, Dun & Bradstreet	
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
		91 Assigned by Seller or Seller's Agent	
		92 Assigned by Buyer or Buyer's Agent	
	N104	67 Identification Code	X AN 2/80
		Code identifying a party or other code	

Segment: N2 Additional Name Information
Position: 320
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes:

Example

N2}Corner Sales INC~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N201	93	Name Free-form name	M AN 1/60

Segment: N3 Address Information
Position: 330
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes:

Example
N3}PO BOX 23507~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information	M AN 1/55
	N302	166	Address Information Address information	O AN 1/55

Segment: **N4 Geographic Location**
Position: 340
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
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.
Notes: **Example**
N4} HARTFORD}NC}11238~

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
N401	19	City Name	O AN 2/30
		Free-form text for city name	
N402	156	State or Province Code	O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
N403	116	Postal Code	O ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	
N404	26	Country Code	O ID 2/3
		Code identifying the country	

Segment: **PO1** **Baseline Item Data**

Position: 010

Loop: PO1 Mandatory

Level: Detail

Usage: Mandatory

Max Use: 1

Purpose: To specify basic and most frequently used line item data

Syntax Notes:

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

Semantic Notes:

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.

Notes: **Example**

```
PO1}001}12}EA}5.29}PE}IN}05113139040}VN}05113139040}UI}00051131390409~
```

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
PO101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
PO102	330	Quantity Ordered Quantity ordered	X R 1/15
PO103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
		BB Base Box	
		CA Case	
		CT Carton	
		EA Each	
		FT Foot	
		IB Inches Per Second (Vibration Velocity) Measure of vibration velocity	
		PH Pack (PAK)	
		PK Package	
		RL Roll	
PO104	212	Unit Price Price per unit of product, service, commodity, etc.	X R 1/17
PO105	639	Basis of Unit Price Code Code identifying the type of unit price for an item	O ID 2/2
		HP Price per Hundred	
		PE Price per Each	
		PP Price per Pound	
		PT Price per Ton	

		TP	Price per Thousand		
PO106	235	Product/Service ID Qualifier		X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		IN	Buyer's Item Number		
		SK	Stock Keeping Unit (SKU)		
		UI	U.P.C. Consumer Package Code (1-5-5)		
		UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)		
			A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the final digit is the check digit		
		UP	U.P.C. Consumer Package Code (1-5-5-1)		
		VN	Vendor's (Seller's) Item Number		
PO107	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
PO108	235	Product/Service ID Qualifier		X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		IN	Buyer's Item Number		
		SK	Stock Keeping Unit (SKU)		
		UI	U.P.C. Consumer Package Code (1-5-5)		
		UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)		
		UP	U.P.C. Consumer Package Code (1-5-5-1)		
		VN	Vendor's (Seller's) Item Number		
PO109	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
PO110	235	Product/Service ID Qualifier		X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		IN	Buyer's Item Number		
		SK	Stock Keeping Unit (SKU)		
		UI	U.P.C. Consumer Package Code (1-5-5)		
		UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)		
		UP	U.P.C. Consumer Package Code (1-5-5-1)		
		VN	Vendor's (Seller's) Item Number		
PO111	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
PO112	235	Product/Service ID Qualifier		X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		IN	Buyer's Item Number		
		SK	Stock Keeping Unit (SKU)		
		UI	U.P.C. Consumer Package Code (1-5-5)		
		UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)		
		UP	U.P.C. Consumer Package Code (1-5-5-1)		
		VN	Vendor's (Seller's) Item Number		
PO113	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			

Segment: **PID** Product/Item Description

Position: 050

Loop: PID Optional

Level: Detail

Usage: Optional

Max Use: 1

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

Syntax Notes:

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

Semantic Notes:

- 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.

Notes: **Example**

PID}F}}}}39040 3M LEATHER - VINYL RESTORE 16~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PID01	349	Item Description Type Code indicating the format of a description F Free-form	M ID 1/1
	PID05	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80

Segment: **REF** Reference Identification
Position: 100
Loop: PO1 Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:
Notes:

Example
REF}CT}2967231~

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
M	REF01	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		CR Customer Reference Number	
		CT Contract Number	
		PD Promotion/Deal Number	
	REF02	127 Reference Identification	X AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **DTM** **Date/Time Reference**
Position: 210
Loop: PO1 Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

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

Semantic Notes:

Comments:

Notes:

Example

DTM}002}20190120~

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
		001	Cancel After	
		002	Delivery Requested	
		074	Requested for Delivery (Prior to and Including)	
	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

Segment: SCH Line Item Schedule
Position: 295
Loop: SCH Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the data for scheduling a specific line-item
Syntax Notes:

- 1 If SCH03 is present, then SCH04 is required.
- 2 If SCH08 is present, then at least one of SCH09 or SCH10 is required.
- 3 If SCH09 is present, then SCH08 is required.
- 4 If SCH10 is present, then SCH08 is required.

Semantic Notes:

- 1 SCH12 is the schedule identification.

Comments:

- 1 SCH05 specifies the interpretation to be used for SCH06 and SCH07.

Notes:

Example
SCH}12}EA}}002}20190111~

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	SCH01	380 Quantity Numeric value of quantity	M R 1/15
M	SCH02	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each LB Pound	M ID 2/2
M	SCH05	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 001 Cancel After 002 Delivery Requested 074 Requested for Delivery (Prior to and Including)	M ID 3/3
M	SCH06	373 Date Date expressed as CCYYMMDD	M DT 8/8
	SCH07	337 Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	O TM 4/8
	SCH08	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 001 Cancel After 002 Delivery Requested 074 Requested for Delivery (Prior to and Including)	X ID 3/3
	SCH09	373 Date Date expressed as CCYYMMDD	X DT 8/8
	SCH10	337 Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X TM 4/8

Segment: **CTT** Transaction Totals
Position: 010
Loop: CTT Optional
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
 2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes: **Example**
 CTT}1}12~

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items Total number of line items in the transaction set
	CTT02	347	Hash Total Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.

Example:

- .0018 First occurrence of value being hashed.
- .18 Second occurrence of value being hashed.
- 1.8 Third occurrence of value being hashed.
- 18.01 Fourth occurrence of value being hashed.
-
- 1855 Hash total prior to truncation.
- 855 Hash total after truncation to three-digit field.

Segment: **AMT** Monetary Amount
Position: 020
Loop: CTT Optional
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes:

Example
 AMT}TT}63.57~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	AMT01	522	Amount Qualifier Code Code to qualify amount TT Total Transaction Amount	M ID 1/3
M	AMT02	782	Monetary Amount Monetary amount	M R 1/18

Segment: **SE** Transaction Set Trailer
Position: 030
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
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)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

Notes: **Example**

SE}34}0008~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
M	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

Example:

ISA}00} }00} }01}001317452TS }01}006173082T
{190108}0935}U}00400}000027415}0}P}{~
GS}PO}001317452TS}006173082T}20190108}0935}27415}X}004010~
ST}850}0008~
BEG}00}NE}4511798331}}20190108}81643974~
REF}CR}0000267807~
PER}BD}Amy Henderson }TE}419-248-6391~
FOB}CC}DE}12345~
SAC*A* H850***32*6*.25*****Tax~
DTM}002}20190120~
TD5}O}2}UPSN}D}UNITED PARCEL SERVICE~
N1}BT}Corner Sales}92}08923235 ~
N3}PO BOX 23507~
N4} HARTFORD}NC}11238~
N1}ST} Corner Sales Plant}92}08923233~
N3}4520 Freddy Rd. ~
N4}Atlanta}GA}39184}}US~
PO1}001}12}EA}5.29}PE}IN}05113139040}VN}05113139040}UI}00051131390409~
PID}F}}}}39040 3M LEATHER - VINYL RESTORE 16~
REF}CT}2967231~
DTM}002}20190120~
CTT}1}12~
AMT}TT}63.57~
SE}21}0008~
GE}9}27415~
IEA}1}000027415~