



850 Purchase Order

X12/V4010/850 : 850 Purchase Order

Version: 1.2

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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.

Not Defined:

<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>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

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
040	CUR	Currency	M	1			Must use
060	PER	Administrative Communications Contact	M	3			Must use
070	TAX	Tax Reference	O	>1			Used
240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			Used

<u>LOOP ID - N9</u>					<u>1000</u>		
295	N9	Reference Identification	O	1			Used
300	MSG	Message Text	O	1000			Used

<u>LOOP ID - N1</u>					<u>200</u>		
310	N1	Name	M	1			Must use
320	N2	Additional Name Information	M	2			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>
<u>LOOP ID - PO1</u>					<u>100000</u>	<u>N2/010L</u>	
010	PO1	Baseline Item Data	M	1			Must use

<u>LOOP ID - PID</u>					<u>1000</u>		
050	PID	Product/Item Description	O	1			Used
100	REF	Reference Identification	O	>1			Used
170	TAX	Tax Reference	O	>1			Used
289	MSG	Message Text	O	>1			Used

<u>LOOP ID - SCH</u>					<u>200</u>	<u>N2/295L</u>	
295	SCH	Line Item Schedule	O	1			Used

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>
<u>LOOP ID - CTT</u>					<u>1</u>	<u>N3/010L</u>	
010	CTT	Transaction Totals	O	1			Used
030	SE	Transaction Set Trailer	M	1			Must use

Not Defined:

<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>
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

- 2/010L PO102 is required. At least one of PO108/PO109 or PO110/PO111 are mandatory.
- 2/295L 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.
- 3/010L 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.

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	Must use
Description: Code to identify the type of information in the Authorization Information						
Code List Summary (Total Codes: 7, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		00		No Authorization Information Present (No Meaningful Information in I02)		
ISA02	I02	Authorization Information	M	AN	10/10	Must use
Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)						
ISA03	I03	Security Information Qualifier	M	ID	2/2	Must use
Description: Code to identify the type of information in the Security Information						
Code List Summary (Total Codes: 2, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		00		No Security Information Present (No Meaningful Information in I04)		
ISA04	I04	Security Information	M	AN	10/10	Must use
Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)						
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Must use
Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified						
Code List Summary (Total Codes: 38, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		ZZ		Mutually Defined		
ISA06	I06	Interchange Sender ID	M	AN	15/15	Must use
Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element						
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Must use
Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified						
Code List Summary (Total Codes: 38, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		ZZ		Mutually Defined		
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Must use
Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them						

User Note 1:

Test ISA: DKEUST
Production ISA: DKEUS

ISA09	I08	Interchange Date	M	DT	6/6	Must use
		Description: Date of the interchange				
ISA10	I09	Interchange Time	M	TM	4/4	Must use
		Description: Time of the interchange				
ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1	Must use
		Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer				
		All valid standard codes are used. (Total Codes: 1)				
ISA12	I11	Interchange Control Version Number	M	ID	5/5	Must use
		Description: Code specifying the version number of the interchange control segments				
		All valid standard codes are used. (Total Codes: 1)				
ISA13	I12	Interchange Control Number	M	N0	9/9	Must use
		Description: A control number assigned by the interchange sender				
ISA14	I13	Acknowledgment Requested	M	ID	1/1	Must use
		Description: Code sent by the sender to request an interchange acknowledgment (TA1)				
		All valid standard codes are used. (Total Codes: 2)				
ISA15	I14	Usage Indicator	M	ID	1/1	Must use
		Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information				
		Code List Summary (Total Codes: 3, Included: 2)				
		<u>Code</u>	<u>Name</u>			
		P	Production Data			
		T	Test Data			
ISA16	I15	Component Element Separator	M		1/1	Must use
		Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator				

User Note 1:

ISA*00* *00* *ZZ*123456789 *ZZ*DKEUS *210302*1008*U*00401*002615157*0*P*^~

User Note 2:

Preferred element delimiter: | or * Preferred segment delimiter: ~ or }

GS**Functional Group Header**

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use**Purpose:** To indicate the beginning of a functional group and to provide control information**Element Summary:**

Ref	Id	Element Name	Req	Type	Min/Max	Usage				
GS01	479	Functional Identifier Code	M	ID	2/2	Must use				
Description: Code identifying a group of application related transaction sets										
Code List Summary (Total Codes: 240, Included: 1)										
<table><tr><th>Code</th><th>Name</th></tr><tr><td>PO</td><td>Purchase Order (850)</td></tr></table>							Code	Name	PO	Purchase Order (850)
Code	Name									
PO	Purchase Order (850)									
GS02	142	Application Sender's Code	M	AN	2/15	Must use				
Description: Code identifying party sending transmission; codes agreed to by trading partners										
GS03	124	Application Receiver's Code	M	AN	2/15	Must use				
Description: Code identifying party receiving transmission; codes agreed to by trading partners										
User Note 1: Test GS ID: DKEUST Production GS ID: DKEUS										
GS04	373	Date	M	DT	8/8	Must use				
Description: Date expressed as CCYYMMDD										
GS05	337	Time	M	TM	4/8	Must use				
Description: 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)										
GS06	28	Group Control Number	M	NO	1/9	Must use				
Description: Assigned number originated and maintained by the sender										
GS07	455	Responsible Agency Code	M	ID	1/2	Must use				
Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480										
Code List Summary (Total Codes: 2, Included: 1)										
<table><tr><th>Code</th><th>Name</th></tr><tr><td>T</td><td>Transportation Data Coordinating Committee (TDCC)</td></tr></table>							Code	Name	T	Transportation Data Coordinating Committee (TDCC)
Code	Name									
T	Transportation Data Coordinating Committee (TDCC)									
GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12	Must use				
Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed										
Code List Summary (Total Codes: 39, Included: 1)										
<table><tr><th>Code</th><th>Name</th></tr></table>							Code	Name		
Code	Name									

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Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

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						
Code List Summary (Total Codes: 298, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		850		Purchase Order		
ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set						

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

User Note 1:

ST*850*0001~

BEG Beginning Segment for Purchase Order

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 5

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	Transaction Set Purpose Code	M	ID	2/2	Must use
		Description: Code identifying purpose of transaction set				
		Code List Summary (Total Codes: 65, Included: 1)				
		<u>Code</u>		<u>Name</u>		
		00		Original		
BEG02	92	Purchase Order Type Code	M	ID	2/2	Must use
		Description: Code specifying the type of Purchase Order				
		Code List Summary (Total Codes: 69, Included: 1)				
		<u>Code</u>		<u>Name</u>		
		NE		New Order		
BEG03	324	Purchase Order Number	M	AN	1/22	Must use
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser				
BEG04	328	Release Number	O	AN	1/30	Not used
		Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction				
BEG05	373	Date	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				

Semantics:

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

CUR Currency

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

User Option (Usage): Must use

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

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>
CUR01	98	Entity Identifier Code	M	ID	2/3	Must use
Description: Code identifying an organizational entity, a physical location, property or an individual						
Code List Summary (Total Codes: 1312, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		BY		Buying Party (Purchaser)		
CUR02	100	Currency Code	M	ID	3/3	Must use
Description: Code (Standard ISO) for country in whose currency the charges are specified						

User Note 1:

CUR*BY*USD~

PER Administrative Communications Contact

Pos: 060	Max: 3
Heading - Mandatory	
Loop: N/A	Elements: 6

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	Contact Function Code	M	ID	2/2	Must use				
Description: Code identifying the major duty or responsibility of the person or group named										
Code List Summary (Total Codes: 230, Included: 1)										
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>BD</td><td>Buyer Name or Department</td></tr></table>							<u>Code</u>	<u>Name</u>	BD	Buyer Name or Department
<u>Code</u>	<u>Name</u>									
BD	Buyer Name or Department									
PER02	93	Name	M	AN	1/60	Must use				
Description: Free-form name										
PER03	365	Communication Number Qualifier	X	ID	2/2	Used				
Description: Code identifying the type of communication number										
Code List Summary (Total Codes: 40, Included: 1)										
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>EM</td><td>Electronic Mail</td></tr></table>							<u>Code</u>	<u>Name</u>	EM	Electronic Mail
<u>Code</u>	<u>Name</u>									
EM	Electronic Mail									
PER04	364	Communication Number	X	AN	1/80	Used				
Description: Complete communications number including country or area code when applicable										
PER05	365	Communication Number Qualifier	X	ID	2/2	Used				
Description: Code identifying the type of communication number										
Code List Summary (Total Codes: 40, Included: 1)										
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>TE</td><td>Telephone</td></tr></table>							<u>Code</u>	<u>Name</u>	TE	Telephone
<u>Code</u>	<u>Name</u>									
TE	Telephone									
PER06	364	Communication Number	X	AN	1/80	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.

User Note 1:

PER*BD*BUYER NAME*EM*BUYER@YOURCOMPANY.COM*TE*1112223333~

TAX Tax Reference

Pos: 070	Max: >1
Heading - Optional	
Loop: N/A	Elements: 12

User Option (Usage): Used

Purpose: To provide data required for proper notification/determination of applicable taxes applying to the transaction or business described in the transaction

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>
TAX01	325	Tax Identification Number	X	AN	1/20	Not used
		Description: Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number				
TAX02	309	Location Qualifier	X	ID	1/2	Not used
		Description: Code identifying type of location All valid standard codes are used. (Total Codes: 172)				
TAX03	310	Location Identifier	X	AN	1/30	Not used
		Description: Code which identifies a specific location				
TAX04	309	Location Qualifier	X	ID	1/2	Not used
		Description: Code identifying type of location All valid standard codes are used. (Total Codes: 172)				
TAX05	310	Location Identifier	X	AN	1/30	Not used
		Description: Code which identifies a specific location				
TAX06	309	Location Qualifier	X	ID	1/2	Not used
		Description: Code identifying type of location All valid standard codes are used. (Total Codes: 172)				
TAX07	310	Location Identifier	X	AN	1/30	Not used
		Description: Code which identifies a specific location				
TAX08	309	Location Qualifier	X	ID	1/2	Not used
		Description: Code identifying type of location All valid standard codes are used. (Total Codes: 172)				
TAX09	310	Location Identifier	X	AN	1/30	Not used
		Description: Code which identifies a specific location				
TAX10	309	Location Qualifier	X	ID	1/2	Not used
		Description: Code identifying type of location All valid standard codes are used. (Total Codes: 172)				
TAX11	310	Location Identifier	X	AN	1/30	Not used
		Description: Code which identifies a specific location				
TAX12	441	Tax Exempt Code	O	ID	1/1	Used
		Description: Code identifying exemption status from sales and use tax				
		Code List Summary (Total Codes: 34, Included: 2)				
		<u>Code</u>	<u>Name</u>			
		1	Yes (Tax Exempt)			
		2	No (Not Tax Exempt)			

Comments:

1. Tax ID number is, in many instances, referred to as a Tax Exemption Number. The paired (combined) use of data elements 309 and 310 provides for the designation of five taxing jurisdictions.
2. TAX01 is required if tax exemption is being claimed.

User Note 1:

TAX*****N~

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 240	Max: 12
Heading - Optional	
Loop: N/A	Elements: 5

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>
TD501	133	Routing Sequence Code	O	ID	1/2	Not used
		Description: Code describing the relationship of a carrier to a specific shipment movement All valid standard codes are used. (Total Codes: 23)				
TD502	66	Identification Code Qualifier	X	ID	1/2	Not used
		Description: Code designating the system/method of code structure used for Identification Code (67) All valid standard codes are used. (Total Codes: 215)				
TD503	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code User Note 1: <i>Carrier payment account number</i>				
TD504	91	Transportation Method/Type Code	X	ID	1/2	Not used
		Description: Code specifying the method or type of transportation for the shipment All valid standard codes are used. (Total Codes: 71)				
TD505	387	Routing	X	AN	1/35	Used
		Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity User Note 1: <i>Carrier/Ship Method</i>				

Syntax Rules:

1. C0203 - If TD502 is present, then TD503 is required.

User Note 1:

TD5***123456789**FedEx Standard Overnight~

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	O	1		Used
300	MSG	Message Text	O	1000		Used

User Note 1:

*N9*Header~ MSG*Free Form Notes here~*

N9**Reference Identification**

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

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

<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**Code List Summary** (Total Codes: 1503, Included: 1)

<u>Code</u>	<u>Name</u>
ZZ	Mutually Defined

N902	127	Reference Identification	X	AN	1/30	Used
------	-----	--------------------------	---	----	------	------

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

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

User Note 1:

N9*ZZ*Header~

MSG Message Text

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

User Option (Usage): Used

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

User Note 1:

MSG*Free Form Notes here~

Loop Name

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

User Option (Usage): Used

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
320	N2	Additional Name Information	M	2		Must use
330	N3	Address Information	M	2		Must use
340	N4	Geographic Location	M	>1		Must use

User Note 1:

*N1*ST*Sample Company*91*10~ N3*1st Real Way St~ N4*Minneapolis*MN*55401*US~ N1*BT*Sample Company*91*10~ N3*1 Account St~ N4*Minneapolis*MN*55401*US~*

N1**Name**

Pos: 310	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:**

<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	Entity Identifier Code	M	ID	2/3	Must use
Description: Code identifying an organizational entity, a physical location, property or an individual						
Code List Summary (Total Codes: 1312, Included: 2)						
		<u>Code</u>		<u>Name</u>		
		BT		Bill-to-Party		
		ST		Ship To		
N102	93	Name	M	AN	1/60	Must use
Description: Free-form name						
N103	66	Identification Code Qualifier	M	ID	1/2	Must use
Description: Code designating the system/method of code structure used for Identification Code (67)						
Code List Summary (Total Codes: 215, Included: 2)						
		<u>Code</u>		<u>Name</u>		
		91		Assigned by Seller or Seller's Agent		
		92		Assigned by Buyer or Buyer's Agent		
N104	67	Identification Code	M	AN	2/80	Must use
Description: Code identifying a party or other code						

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.

User Note 1:

*N1*ST*Sample Company*91*10~*

N2**Additional Name
Information**

Pos: 320	Max: 2
Heading - Mandatory	
Loop: N1	Elements: 2

User Option (Usage): Must use**Purpose:** To specify additional names or those longer than 35 characters in length**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>
N201	93	Name	M	AN	1/60	Must use
		Description: Free-form name				
N202	93	Name	O	AN	1/60	Used
		Description: Free-form name				

User Note 1:*N2*First Line*Second~*

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
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

User Note 1:*N3*1st Real Way St~*

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	City Name	M	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	M	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	M	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	M	ID	2/3	Used
		Description: Code identifying the country				

Comments:

1. N402 is required only if city name (N401) is in the U.S. or Canada.

User Note 1:

N4*Minneapolis*MN*55401*US~

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	O		1000	Used
100	REF	Reference Identification	O	>1		Used
170	TAX	Tax Reference	O	>1		Used
289	MSG	Message Text	O	>1		Used
295		Loop SCH	O		200	Used

PO1 Baseline Item Data

Pos: 010	Max: 1
Detail - Mandatory	
Loop: PO1	Elements: 13

User Option (Usage): Must use

Purpose: To specify basic and most frequently used line item 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>
PO101	350	Assigned Identification	O	AN	1/20	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
PO102	330	Quantity Ordered	X	R	1/15	Must use
		Description: Quantity ordered				
PO103	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Code List Summary (Total Codes: 794, Included: 2)				
		<u>Code</u>		<u>Name</u>		
		EA		Each		
		PC		Piece		
PO104	212	Unit Price	X	R	1/17	Used
		Description: Price per unit of product, service, commodity, etc.				
PO105	639	Basis of Unit Price Code	O	ID	2/2	Used
		Description: Code identifying the type of unit price for an item				
		Code List Summary (Total Codes: 91, Included: 1)				
		<u>Code</u>		<u>Name</u>		
		PE		Price per Each		
PO106	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code List Summary (Total Codes: 477, Included: 1)				
		<u>Code</u>		<u>Name</u>		
		BP		Buyer's Part Number		
PO107	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO108	235	Product/Service ID Qualifier	X	ID	2/2	Must use
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code List Summary (Total Codes: 477, Included: 1)				
		<u>Code</u>		<u>Name</u>		
		MG		Manufacturer's Part Number		
PO109	234	Product/Service ID	X	AN	1/48	Must use
		Description: Identifying number for a product or service				
PO110	235	Product/Service ID Qualifier	X	ID	2/2	Must use
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				

Code List Summary (Total Codes: 477, Included: 1)

<u>Code</u>	<u>Name</u>
VP	Vendor's (Seller's) Part Number

PO111	234	Product/Service ID	X	AN	1/48	Used
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Description: Identifying number for a product or service

PO112	235	Product/Service ID Qualifier	X	ID	2/2	Used
-------	-----	-------------------------------------	---	----	-----	------

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)**Code List Summary** (Total Codes: 477, Included: 1)

<u>Code</u>	<u>Name</u>
MF	Manufacturer

PO113	234	Product/Service ID	X	AN	1/48	Used
-------	-----	---------------------------	---	----	------	------

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

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

Comments:

1. PO101 is the line item identification.

User Note 1:

*PO1*4*60*EA*9.144*PE*BP*CUSTOMERPART*MG*MFGPART*VP*DIGIKEYPART*MF*MFGNAME~ ****Please note**** MG or VP required.*

Loop Product/Item Description

Pos: 050	Repeat: 1000
	Optional
Loop: PID	Elements: N/A

User Option (Usage): Used

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	O	1		Used

User Note 1:

*PID*F****TRANS NPN DAR 140V 2000MA SOT223~*

PID Product/Item Description

Pos: 050	Max: 1
Detail - Optional	
Loop: PID	Elements: 5

User Option (Usage): Used

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						
Code List Summary (Total Codes: 3, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		F		Free-form		
PID02	750	Product/Process Characteristic Code	O	ID	2/3	Not used
Description: Code identifying the general class of a product or process characteristic						
All valid standard codes are used. (Total Codes: 217)						
PID03	559	Agency Qualifier Code	X	ID	2/2	Not used
Description: Code identifying the agency assigning the code values						
All valid standard codes are used. (Total Codes: 176)						
PID04	751	Product Description Code	X	AN	1/12	Not used
Description: A code from an industry code list which provides specific data about a product characteristic						
PID05	352	Description	X	AN	1/80	Used
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.

Comments:

1. If PID01 equals "F", then PID05 is used.

REF Reference Identification

Pos: 100	Max: >1
Detail - Optional	
Loop: PO1	Elements: 2

User Option (Usage): Used

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						
Code List Summary (Total Codes: 1503, Included: 1)						
		<u>Code</u>	<u>Name</u>			
		PR	Price Quote Number			
REF02	127	Reference Identification	X	AN	1/30	Used
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						

Syntax Rules:

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

Semantics:

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

User Note 1:

Digi-Key quote number REF*PR*13887625~

TAX Tax Reference

Pos: 170	Max: >1
Detail - Optional	
Loop: PO1	Elements: 12

User Option (Usage): Used

Purpose: To provide data required for proper notification/determination of applicable taxes applying to the transaction or business described in the transaction

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>
TAX01	325	Tax Identification Number	X	AN	1/20	Not used
Description: Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number						
TAX02	309	Location Qualifier	X	ID	1/2	Not used
Description: Code identifying type of location All valid standard codes are used. (Total Codes: 172)						
TAX03	310	Location Identifier	X	AN	1/30	Not used
Description: Code which identifies a specific location						
TAX04	309	Location Qualifier	X	ID	1/2	Not used
Description: Code identifying type of location All valid standard codes are used. (Total Codes: 172)						
TAX05	310	Location Identifier	X	AN	1/30	Not used
Description: Code which identifies a specific location						
TAX06	309	Location Qualifier	X	ID	1/2	Not used
Description: Code identifying type of location All valid standard codes are used. (Total Codes: 172)						
TAX07	310	Location Identifier	X	AN	1/30	Not used
Description: Code which identifies a specific location						
TAX08	309	Location Qualifier	X	ID	1/2	Not used
Description: Code identifying type of location All valid standard codes are used. (Total Codes: 172)						
TAX09	310	Location Identifier	X	AN	1/30	Not used
Description: Code which identifies a specific location						
TAX10	309	Location Qualifier	X	ID	1/2	Not used
Description: Code identifying type of location All valid standard codes are used. (Total Codes: 172)						
TAX11	310	Location Identifier	X	AN	1/30	Not used
Description: Code which identifies a specific location						
TAX12	441	Tax Exempt Code	O	ID	1/1	Used
Description: Code identifying exemption status from sales and use tax User Note 1: TAX*****N~						

Code List Summary (Total Codes: 34, Included: 2)

<u>Code</u>	<u>Name</u>
1	Yes (Tax Exempt)
2	No (Not Tax Exempt)

Comments:

1. Tax ID number is, in many instances, referred to as a Tax Exemption Number. The paired (combined) use of data elements 309 and 310 provides for the designation of five taxing jurisdictions.
2. TAX01 is required if tax exemption is being claimed.

MSG Message Text

Pos: 289	Max: >1
Detail - Optional	
Loop: PO1	Elements: 1

User Option (Usage): Used

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.

User Note 1:

*MSG*Detail free form note here~*

Loop Line Item Schedule

Pos: 295	Repeat: 200
Optional	
Loop: SCH	Elements: N/A

User Option (Usage): Used

Purpose: To specify the data for scheduling a specific line-item

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	SCH	Line Item Schedule	O	1		Used

User Note 1:

SCH*60*EA***002*20210401~

SCH Line Item Schedule

Pos: 295	Max: 1
Detail - Optional	
Loop: SCH	Elements: 6

User Option (Usage): Used

Purpose: To specify the data for scheduling a specific line-item

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>
SCH01	380	Quantity	M	R	1/15	Must use
		Description: Numeric value of quantity				
SCH02	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Code List Summary (Total Codes: 794, Included: 2)				
		<u>Code</u>		<u>Name</u>		
		EA		Each		
		PC		Piece		
SCH03	98	Entity Identifier Code	O	ID	2/3	Not used
		Description: Code identifying an organizational entity, a physical location, property or an individual				
		All valid standard codes are used. (Total Codes: 1312)				
SCH04	93	Name	X	AN	1/60	Not used
		Description: Free-form name				
SCH05	374	Date/Time Qualifier	M	ID	3/3	Must use
		Description: Code specifying type of date or time, or both date and time				
		Code List Summary (Total Codes: 1112, Included: 2)				
		<u>Code</u>		<u>Name</u>		
		002		Delivery Requested		
		010		Requested Ship		
SCH06	373	Date	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				

Syntax Rules:

1. C0304 - If SCH03 is present, then SCH04 is required.
2. L080910 - If SCH08 is present, then at least one of SCH09 or SCH10 is required.
3. C0908 - If SCH09 is present, then SCH08 is required.
4. C1008 - If SCH10 is present, then SCH08 is required.

Semantics:

1. SCH12 is the schedule identification.

Comments:

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

Loop Transaction Totals

Pos: 010	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:

<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	O	1		Used

CTT Transaction Totals

Pos: 010	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:

<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

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	Number of Included Segments	M	N0	1/10	Must use
Description: Total number of segments included in a transaction set including ST and SE segments						
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set						

Comments:

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

GE Functional Group Trailer

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

User Option (Usage): Must use

Purpose: To indicate the end of a functional group and to provide control 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>
GE01	97	Number of Transaction Sets Included	M	N0	1/6	Must use
Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element						
GE02	28	Group Control Number	M	N0	1/9	Must use
Description: Assigned number originated and maintained by the sender						

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA**Interchange Control Trailer**

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

User Option (Usage): Must use**Purpose:** To define the end of an interchange of zero or more functional groups and interchange-related control segments**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	Number of Included Functional Groups	M	N0	1/5	Must use
Description: A count of the number of functional groups included in an interchange						
IEA02	I12	Interchange Control Number	M	N0	9/9	Must use
Description: A control number assigned by the interchange sender						

EDI 850 Sample

ISA*00* *00* *ZZ*999999999 *ZZ*DKEUST *210309*1029*U*00401*002632975*0*T*^~
 GS*PO*258135*DKEUST*20210309*1029*2632975*X*004010~
 ST*850*0001~
 BEG*00*NE*166801**20210304~
 CUR*BY*USD~
 PER*BD*KAREN BUYERTON*EM*KAREN.BUYERTON@CUSTOMER.COM*TE*2186811645~
 TD5***6B6Q39**UPS GROUND~
 N9*HEADER NOTE~
 MSG*CONTACT BUYER WITH QUESTIONS~
 N1*ST*COMPANY SHIPTO NAME*91*123456~
 N3*123 SHIPPING ROAD~
 N4*GRAND RAPIDS*MI*56821*US~
 N1*BT*COMPANY BILLING NAME*91*654321~
 N3*123 ACCOUNTING ROAD~
 N4*GRAND RAPIDS*MI*56821*US~
 PO1*1*10000*EA*0.10775*PE*BP*32-68596*MG*NRVTS245ESFT3G*VP*NRVTS245ESFT3-ND*MF*ON SEMI~
 PID*F****LABEL/MARKER-TERMINAL BLOCK, 1~
 MSG*PRICE BREAK IS EACH~
 SCH*10000*EA***002*20210401~
 PO1*1*200*EA*7.448*PE*BP*32-09598*MG*BPA-1523*VP*377-1040-ND*MF*BUD INDUSTRIES~
 PID*F****LABEL/MARKER-TERMINAL BLOCK, 2~
 MSG*PRICE BREAK IS EACH~
 SCH*100*EA***002*20210401~
 SCH*100*EA***002*20210821~
 CTT*5~
 SE*21*0001~
 GE*1*2632975~
 IEA*1*002632975~