

850 Purchase Order

Functional Group ID=**PO**

Introduction:

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.

Notes:

850 Business process narrative - John Deere as the customer

This transaction is used to communicate the procurement of production, indirect materials, or services. The 850 Purchase Order transaction set is a stand-alone document that is used when there is not a blanket order relationship. This transaction communicates the part numbers, prices, due or ship dates, item description information and associated quantities needed by the customer location. Also included are Ship To locations, Bill To information, and any other information required for delivery. This transaction does not allow forecast data. All dates and quantities are firm and should be delivered based on the agreed window around the due or ship date.

Heading:

<u>Page No.</u>	<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>
3	010	ST	Transaction Set Header	M	1		
4	020	BEG	Beginning Segment for Purchase Order	M	1		
5	050	REF	Reference Identification	O	>1		
6	060	PER	Administrative Communications Contact	O	3		
7	070	TAX	Tax Reference	O	>1		
8	080	FOB	F.O.B. Related Instructions	O	>1		
LOOP ID - N1						200	
9	310	N1	Name	O	1		
10	320	N2	Additional Name Information	O	2		
11	330	N3	Address Information	O	2		
12	340	N4	Geographic Location	O	>1		
13	360	PER	Administrative Communications Contact	O	>1		
14	390	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
15	400	TD3	Carrier Details (Equipment)	O	12		

Detail:

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LOOP ID - PO1						100000	
16	010	PO1	Baseline Item Data	M	1		n1
20	020	CUR	Currency	O	1		
21	030	PO3	Additional Item Detail	O	25		
LOOP ID - PID						1000	

22	050	PID	Product/Item Description	O	1	
23	100	REF	Reference Identification	O	>1	
			LOOP ID - SAC		25	
24	130	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
25	170	TAX	Tax Reference	O	>1	
26	291	TXI	Tax Information	O	>1	
			LOOP ID - SCH		200	
27	295	SCH	Line Item Schedule	O	1	n2

Summary:

<u>Page No.</u>	<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	
28	010	CTT	Transaction Totals	O	1		n3
29	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.

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:

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 850 Purchase Order	M ID 3/3
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

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:

The segment indicates whether the order is an Original, Cancellation, Add (to add an item), or Replacement for the material on this purchase order number.

A code other than 'SA' in the type of P.O. indicates special handling. Supplier should contact their John Deere buyer if they are not aware of what special needs pertain to this order.

The Invoice type code specifies whether John Deere requires an invoice.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BEG01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original 01 Cancellation 02 Add 05 Replace	M ID 2/2
M	BEG02	92	Purchase Order Type Code Code specifying the type of Purchase Order CF Confirmation NP New Product Introduction RO Rush Order Used with John Deere Parts emergency or "machine-down" orders. RR Repair and Return SA Stand-alone Order SW Stop Work Used with John Deere inter-factory flash orders.	M ID 2/2
M	BEG03	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser This is the purchase order date.	M AN 1/22
M	BEG05	373	Date Date expressed as CCYYMMDD This is the purchase order date.	M DT 8/8
	BEG08	1019	Invoice Type Code Code defining the method by which invoices are to be processed IEL Invoice Electronically INR Invoice Not Required (Such As Evaluated Receipts Settlements)	O ID 3/3

Segment:	REF Reference Identification
Position:	050
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	This segment may be used by the John Deere units to indicate reference information for a delivery/shipment.

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			AEM Distribution Center Number	
			DD Document Identification Code	
			Specifies John Deere Parts order type.	
			KK Delivery Reference	
			ON Dealer Order Number	
			VI Pool 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:	This segment may have multiple occurrences identifying a contact within John Deere.

Data Element Summary				
Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
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		
		EX Expeditor		
		IC Information 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		
	PER05	365 Communication Number Qualifier	X	ID 2/2
		Code identifying the type of communication number		
		EM Electronic Mail		
		TE Telephone		
	PER06	364 Communication Number	X	AN 1/80
		Complete communications number including country or area code when applicable		

Segment: **TAX** Tax Reference

Position: 070

Loop:

Level: Heading

Usage: Optional

Max Use: >1

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

- Syntax Notes:**
- 1 At least one of TAX01 or TAX03 is required.
 - 2 If either TAX02 or TAX03 is present, then the other is required.
 - 3 If either TAX04 or TAX05 is present, then the other is required.
 - 4 If either TAX06 or TAX07 is present, then the other is required.
 - 5 If either TAX08 or TAX09 is present, then the other is required.
 - 6 If either TAX10 or TAX11 is present, then the other is required.

Semantic Notes:

- 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.

Notes: John Deere will send a tax exemption identification number in this segment when applicable. The State or Province code will be shown with its 2-digit state abbreviation. The tax I.D. applies to the total purchase order.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
TAX01	325	Tax Identification Number	X AN 1/20
		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
		Code identifying type of location	
		SP State/Province	
TAX03	310	Location Identifier	X AN 1/30
		Code which identifies a specific location	

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:	This segment will identify if payment terms for transportation are Collect or Prepaid. The location qualifier identifies if the shipment is covered through destination or origin.	

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	FOB01	146	Shipment Method of Payment	M ID 2/2
			Code identifying payment terms for transportation charges	
			CC Collect	
			PP Prepaid (by Seller)	
	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:	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:	<p>Name Loop (N1-N4) can have multiple occurrences. At least one N1 segment will always contain an indicator ("ST") for the ship to location.</p> <p>There will be an associated DUNS number or another John Deere unique number to cross reference all the address information. If the code "92" is used to indicate a John Deere unique number, the supplier must be sure there is associated address information in the supplier data base or in the 850 data being transmitted.</p> <p>In John Deere Parts business, the ordering dealer information will be transmitted in one of two N1 loop structures.</p> <ul style="list-style-type: none"> - On Standard orders, the N1 qualified by "ST" will contain dealer information - Orders with alternate locations will use an N1 containing a "DL" qualifier for dealer identification. <p>BPN: Information related to the N1 - N4 (naming) segments</p> <p>At least one N1 segment will always contain an indicator ("ST") for the ship to location. There will be an associated DUNS number or another Deere unique number to cross reference the address information. If the code "92" is used to indicate a Deere unique number, the supplier must be sure there is associated address information in the supplier's internal data base or in this transaction.</p>

Data Element Summary

Ref.	Data		
Des.	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	
		BT Bill-to-Party	
		MA Party for whom Item is Ultimately Intended	
		ST Ship To	
		SU Supplier/Manufacturer	
	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	
		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:

Data Element Summary				
	Ref.	Data		
	<u>Des.</u>	<u>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:

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>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: The optional data contained in N405/N406 is the John Deere unloading (possibly receiving gate and dept) storage location. This information is required on the material's shipping documents to insure delivery at the intended location.

Data Element Summary			
Ref. Des.	Data Element	Name	Attributes
N401	19	City Name Free-form text for city name	O AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
N404	26	Country Code Code identifying the country	O ID 2/3
N405	309	Location Qualifier Code identifying type of location DE Destination (Shipping)	X ID 1/2
N406	310	Location Identifier Code which identifies a specific location	O AN 1/30

Segment:	PER Administrative Communications Contact
Position:	360
Loop:	N1 Optional
Level:	Heading
Usage:	Optional
Max Use:	>1
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:	This segment may have multiple occurrences identifying contacts within the organization specified in the previous N1 segment.

Data Element Summary				
Ref.	Data	Name	Attributes	
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	PER01	366 Contact Function Code	M	ID 2/2
		Code identifying the major duty or responsibility of the person or group named		
		RP Responsible Person		
	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		
		FX Facsimile		
		TE Telephone		
	PER04	364 Communication Number	X	AN 1/80
		Complete communications number including country or area code when applicable		

Segment:	TD5	Carrier Details (Routing Sequence/Transit Time)
Position:	390	
Loop:	N1	Optional
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:	1 TD515 is the country where the service is to be performed.	
Comments:	1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.	
Notes:	This segment will have multiple occurrences to specify free form description of shipment routing. It may also contain the name of the carrier that John Deere has contracted.	

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
TD501	133	Routing Sequence Code	O ID 1/2
		Code describing the relationship of a carrier to a specific shipment movement	
		B Origin/Delivery Carrier (Any Mode)	
TD504	91	Transportation Method/Type Code	X ID 1/2
		Code specifying the method or type of transportation for the shipment	
		A Air	
		M Motor (Common Carrier)	
		R Rail	
		S Ocean	
TD505	387	Routing	X AN 1/35
		Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	
TD512	284	Service Level Code	X ID 2/2
		Code indicating the level of transportation service or the billing service offered by the transportation carrier	
		AM A.M.	
		ND Next Day Air	
		Delivery during business day hours of next business day	
		SC Second Day Air	
		Delivery during business day hours no later than second business day	
		SD Saturday	
		SE Second Day	
		SG Standard Ground	
		ZZ Mutually Defined	
		The "ZZ" code will be used for Will-Call types.	

Segment:	TD3	Carrier Details (Equipment)
Position:	400	
Loop:	N1	Optional
Level:	Heading	
Usage:	Optional	
Max Use:	12	
Purpose:	To specify transportation details relating to the equipment used by the carrier	
Syntax Notes:	1 Only one of TD301 or TD310 may be present. 2 If TD302 is present, then TD303 is required. 3 If TD304 is present, then TD305 is required. 4 If either TD305 or TD306 is present, then the other is required.	
Semantic Notes:		
Comments:		
Notes:	Deere will utilize this segment when predetermined trailer numbers exist. (e.g. bulk oil orders to petroleum suppliers)	

Data Element Summary			
<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
TD301	40	Equipment Description Code	X ID 2/2
		Code identifying type of equipment used for shipment	
		TL Trailer (not otherwise specified)	
TD302	206	Equipment Initial	O AN 1/4
		Prefix or alphabetic part of an equipment unit's identifying number	
TD303	207	Equipment Number	X AN 1/10
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	

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:	This segment contains the John Deere part number, supplier's part number, part description being ordered, and pricing configurations, and other information related to the part. The customer order number will also be included in this segment, when the business process requires this data.	

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
PO101	350	Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
PO102	330	Quantity Ordered	X R 1/15
		Quantity ordered	
PO103	355	Unit or Basis for Measurement Code	O ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
PO104	212	Unit Price	X R 1/17
		Price per unit of product, service, commodity, etc.	
PO105	639	Basis of Unit Price Code	O ID 2/2
		Code identifying the type of unit price for an item	
		NC No Charge	
		NQ No Quote	
		TC Contract Price per Hundred	
		TE Contract Price per Each	
		TM Contract 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)	
		NOTE: Paired Data Elements PO106/PO107 code values will apply to PO108 through PO121 as dictated by the indicated code list.	
		BP Buyer's Part Number	
		PL Purchaser's Order Line 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)		
		DG Discount Grouping		
		EC Engineering Change Level		
		HD International Harmonized Commodity Code		
		For customs authority purposes, the class and description of a subject part or material item per harmonized agreements on tariff commodity codes		
		MF Manufacturer		
		MG Manufacturer's Part Number		
		ON Customer Order Number		
		PD Part Number Description		
		PL Purchaser's Order Line Number		
		RC Returnable Container Number		
		TW Program Code		
		VP Vendor's (Seller's) Part Number		
PO109	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
		Paired elements PO108/PO109 thru PO120/PO121 will be sent based on the dynamic existence of data. The qualifier must be used in identifying the business relevance of the value.		
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)		
		DG Discount Grouping		
		EC Engineering Change Level		
		HD International Harmonized Commodity Code		
		For customs authority purposes, the class and description of a subject part or material item per harmonized agreements on tariff commodity codes		
		MF Manufacturer		
		MG Manufacturer's Part Number		
		ON Customer Order Number		
		PD Part Number Description		
		PL Purchaser's Order Line Number		
		RC Returnable Container Number		
		TW Program Code		
		VP Vendor's (Seller's) Part Number		
PO111	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
		Paired elements PO108/PO109 thru PO120/PO121 will be sent based on the dynamic existence of data. The qualifier must be used in identifying the business relevance of the value.		
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)		
		DG Discount Grouping		
		EC Engineering Change Level		
		HD International Harmonized Commodity Code		
		For customs authority purposes, the class and description of a subject part or material item per harmonized		

		MF	agreements on tariff commodity codes Manufacturer		
		MG	Manufacturer's Part Number		
		ON	Customer Order Number		
		PD	Part Number Description		
		PL	Purchaser's Order Line Number		
		RC	Returnable Container Number		
		TW	Program Code		
		VP	Vendor's (Seller's) Part Number		
PO113	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
		Paired elements PO108/PO109 thru PO120/PO121 will be sent based on the dynamic existence of data. The qualifier must be used in identifying the business relevance of the value.			
PO114	235	Product/Service ID Qualifier		X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		DG	Discount Grouping		
		EC	Engineering Change Level		
		HD	International Harmonized Commodity Code		
			For customs authority purposes, the class and description of a subject part or material item per harmonized agreements on tariff commodity codes		
		MF	Manufacturer		
		MG	Manufacturer's Part Number		
		ON	Customer Order Number		
		PD	Part Number Description		
		PL	Purchaser's Order Line Number		
		RC	Returnable Container Number		
		TW	Program Code		
		VP	Vendor's (Seller's) Part Number		
PO115	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
		Paired elements PO108/PO109 thru PO120/PO121 will be sent based on the dynamic existence of data. The qualifier must be used in identifying the business relevance of the value.			
PO116	235	Product/Service ID Qualifier		X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		DG	Discount Grouping		
		EC	Engineering Change Level		
		HD	International Harmonized Commodity Code		
			For customs authority purposes, the class and description of a subject part or material item per harmonized agreements on tariff commodity codes		
		MF	Manufacturer		
		MG	Manufacturer's Part Number		
		ON	Customer Order Number		
		PD	Part Number Description		
		PL	Purchaser's Order Line Number		
		RC	Returnable Container Number		
		TW	Program Code		
		VP	Vendor's (Seller's) Part Number		
PO117	234	Product/Service ID		X	AN 1/48

		Identifying number for a product or service	
		Paired elements PO108/PO109 thru PO120/PO121 will be sent based on the dynamic existence of data. The qualifier must be used in identifying the business relevance of the value.	
PO118	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		DG	Discount Grouping
		EC	Engineering Change Level
		HD	International Harmonized Commodity Code
			For customs authority purposes, the class and description of a subject part or material item per harmonized agreements on tariff commodity codes
		MF	Manufacturer
		MG	Manufacturer's Part Number
		ON	Customer Order Number
		PD	Part Number Description
		PL	Purchaser's Order Line Number
		RC	Returnable Container Number
		TW	Program Code
		VP	Vendor's (Seller's) Part Number
PO119	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
		Paired elements PO108/PO109 thru PO120/PO121 will be sent based on the dynamic existence of data. The qualifier must be used in identifying the business relevance of the value.	
PO120	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		DG	Discount Grouping
		EC	Engineering Change Level
		HD	International Harmonized Commodity Code
			For customs authority purposes, the class and description of a subject part or material item per harmonized agreements on tariff commodity codes
		MF	Manufacturer
		MG	Manufacturer's Part Number
		ON	Customer Order Number
		PD	Part Number Description
		PL	Purchaser's Order Line Number
		RC	Returnable Container Number
		TW	Program Code
		VP	Vendor's (Seller's) Part Number
PO121	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
		Paired elements PO108/PO109 thru PO120/PO121 will be sent based on the dynamic existence of data. The qualifier must be used in identifying the business relevance of the value.	

Segment: **CUR** Currency
Position: 020
Loop: PO1 Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction
Syntax Notes:

- 1 If CUR08 is present, then CUR07 is required.
- 2 If CUR09 is present, then CUR07 is required.
- 3 If CUR10 is present, then at least one of CUR11 or CUR12 is required.
- 4 If CUR11 is present, then CUR10 is required.
- 5 If CUR12 is present, then CUR10 is required.
- 6 If CUR13 is present, then at least one of CUR14 or CUR15 is required.
- 7 If CUR14 is present, then CUR13 is required.
- 8 If CUR15 is present, then CUR13 is required.
- 9 If CUR16 is present, then at least one of CUR17 or CUR18 is required.
- 10 If CUR17 is present, then CUR16 is required.
- 11 If CUR18 is present, then CUR16 is required.
- 12 If CUR19 is present, then at least one of CUR20 or CUR21 is required.
- 13 If CUR20 is present, then CUR19 is required.
- 14 If CUR21 is present, then CUR19 is required.

Semantic Notes:
Comments:

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

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	CUR01	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
M	CUR02	100	Currency Code Code (Standard ISO) for country in whose currency the charges are specified	M ID 3/3

Segment:	PO3	Additional Item Detail
Position:	030	
Loop:	PO1	Mandatory
Level:	Detail	
Usage:	Optional	
Max Use:	25	
Purpose:	To specify additional item-related data involving variations in normal price/quantity structure	
Syntax Notes:	1 If PO304 is present, then at least one of PO303 or PO305 is required.	
Semantic Notes:		
Comments:	1 Some examples of price/quantity variations are: price in different units from the PO1 segment, price changes by date, or price changes by quantity (break and level). 2 PO307 defines the unit of measure for PO306.	
Notes:	This is an optional segment that will be used by John Deere to send alternative quantity and unit of measures for raw material orders.	

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PO301	371	Change Reason Code Code specifying the reason for price or quantity change AQ Alternate Quantity and Unit of Measure	M ID 2/2
M	PO306	380	Quantity Numeric value of quantity	M R 1/15
M	PO307	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	M ID 2/2

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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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:	This segment may be used for free-form description.

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

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:	This segment may be included to provide additional delivery location information. The "DK" qualifier indicates a particular factory location beyond the receiving gate which the receiving customer would expect to be attached to the shipping information, so that material can be routed to the correct internal location.	

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 DK Dock 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	
			This defines a more specific delivery location than defined in N4 segment, element 06, at the header level.	

Segment: **SAC** Service, Promotion, Allowance, or Charge Information

Position: 130

Loop: SAC Optional

Level: Detail

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: Optional segment will be used to communicate special "set-up" charges in addition to material price in the PO1 segment.

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	SAC01	248 Allowance or Charge Indicator	M ID 1/1
		Code which indicates an allowance or charge for the service specified	
		C Charge	
	SAC02	1300 Service, Promotion, Allowance, or Charge Code	X ID 4/4
		Code identifying the service, promotion, allowance, or charge	
		G760 Set-up	
	SAC05	610 Amount	O N2 1/15
		Monetary amount	
	SAC12	331 Allowance or Charge Method of Handling Code	O ID 2/2
		Code indicating method of handling for an allowance or charge	
		06 Charge to be Paid by Customer	
	SAC15	352 Description	X AN 1/80
		A free-form description to clarify the related data elements and their content	

Segment: **TAX** Tax Reference

Position: 170

Loop: PO1 Mandatory

Level: Detail

Usage: Optional

Max Use: >1

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

- Syntax Notes:**
- 1 At least one of TAX01 or TAX03 is required.
 - 2 If either TAX02 or TAX03 is present, then the other is required.
 - 3 If either TAX04 or TAX05 is present, then the other is required.
 - 4 If either TAX06 or TAX07 is present, then the other is required.
 - 5 If either TAX08 or TAX09 is present, then the other is required.
 - 6 If either TAX10 or TAX11 is present, then the other is required.

Semantic Notes:

- 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.

Notes: Optional segment, John Deere will send a tax exemption number in this segment when applicable. The State or Province code will be shown with its 2-digit state abbreviation.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
TAX01	325	Tax Identification Number Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number	X AN 1/20
TAX02	309	Location Qualifier Code identifying type of location SP State/Province	X ID 1/2
TAX03	310	Location Identifier Code which identifies a specific location	X AN 1/30

Segment:	TXI Tax Information
Position:	291
Loop:	PO1 Mandatory
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify tax information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of TXI02 TXI03 or TXI06 is required. 2 If either TXI04 or TXI05 is present, then the other is required. 3 If TXI08 is present, then TXI03 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 TXI02 is the monetary amount of the tax. 2 TXI03 is the tax percent expressed as a decimal. 3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.
Comments:	
Notes:	Required on orders outside the United States.

Data Element Summary				
Ref.	Data	Name	Attributes	
Des.	Element			
M	TXI01	963 Tax Type Code	M	ID 2/2
		Code specifying the type of tax		
		GS Goods and Services Tax		
		Canadian value-added tax		
		PG State or Provincial Tax on Goods		
		PS State or Provincial Tax on Services		
	TXI03	954 Percent	X	R 1/10
		Percentage expressed as a decimal		
	TXI06	441 Tax Exempt Code	X	ID 1/1
		Code identifying exemption status from sales and use tax		
		F Exempt (Goods and Services Tax)		
		G Exempt (Provincial Sales Tax)		
		T Totally Exempt		
		X Exempt - Letter on file		
	TXI09	325 Tax Identification Number	O	AN 1/20
		Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number		

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:	This segment will contain the requirement details (dates and quantities).

Data Element Summary				
	Ref.	Data		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SCH01	380	Quantity	M R 1/15
			Numeric value of quantity	
M	SCH02	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
M	SCH05	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			002 Delivery Requested	
			010 Requested Ship	
M	SCH06	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	

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.

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items	M N0 1/6
			Total number of line items in the transaction set	
	CTT02	347	Hash Total	O R 1/10
			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: **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.

Data Element Summary

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

ISA*00* *00* *01*149825353 *01*137461604

*141018*0009*U*00401*000055182*0*P*>

GS*PO*149825353*137461604*20141018*0009*55236*X*004010

ST*850*552360001

BEG*00*SA*4506930920**20141016***IEL

PER*BD*Not Purchased

FOB*PP*DE*Des Moines, IA

N1*BT*John Deere U.S. Ag, Deere & Company

N2*C/O Accts. Payable Shared Services

N3*PO BOX 8808

N4*MOLINE*IL*612668808*US

N1*ST*John Deere Des Moines Works*1*069621423

N3*602 SW STATE ST*Dept. 002 Building 27

N4*ANKENY*IA*500239231*US

TD5*B***M*MOTOR

PO1*00010*4*PC*1*TE*BP*QKK23694A*EC*A

CUR*BY*USD

PID*F****angle

PID*F****10/16/2014 19 39 40 LEVEL A - No documented inspection required.

PID*F****Supplier remains responsible for providing parts that meet all

PID*F****dimensions, tolerances and features indicated on the print.

PID*F****External Notes

PID*F****This reorder was written to purchase this part from Quality

PID*F****Manufacturing since Scott Greenwood has indicated that he does not

PID*F****have

PID*F****the tooling. Please furnish complete and paint per print if required.

SCH*4*PC***010*20141023

CTT*1*4

SE*26*552360001

GE*1*55236

IEA*1*000055182