

850 Purchase Order

General

This document describes Volvo's application of the ANSI X12 transaction set 850 Purchase Order

In the following description the general notation PO is used for Purchase Order. The basis for this application is the AIAG implementation guideline version 004 release 010

The specification offers a detailed description of those data elements which will be used.

The purpose and basic function of the message

The 850 transaction is used by Volvo Motor Graders to transmit a stand alone purchase orders, new blanket purchase order and updates a blanket purchase orders. The transaction identifies the Volvo's part number, supplier's part number and purchase order number.

Creation of a Purchase Order

A creation of the Purchase Order transaction will be authorization between Volvo and their Suppliers to create a shipment to Volvo Motor Graders.

Structure and basis of the Purchase Order

Initial and closing service segments shall be included in the data file which gives our Purchase Order.

Within Volvo we have the following segment structure and detailed description of those data elements which will be used.



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Applications of ASC 12

Version: 031030-1

Volvo subset of ANSI standard transaction set 850

Header:

<u>Pos. No</u>	<u>Seg. ID</u>	<u>Req Name</u>	<u>Req Des.</u>	<u>Volvo Max.</u>	<u>Loop Repeat</u>
010	ST	Transaction Set Header	M	1	
020	BEG	Beginning Segment for Purchase Order	M	1	
040	CUR	Currency	O	1	
LOOP ID-N1					2
310	N1	Name	M	1	
330	N3	Address	O	1	
340	N4	Geographic Location	O	1	

Detail giving item information.

<u>Pos. No</u>	<u>Seg. ID</u>	<u>Req Name</u>	<u>Req Des.</u>	<u>Volvo Max.</u>	<u>Loop Repeat</u>
LOOP ID-PO1					100000
010	PO1	Baseline Item Data	M	1	
170	TAX	Tax	O	2	
295	SCH	Line Item Schedule	O	1	

Summary:

<u>Pos. No</u>	<u>Seg. ID</u>	<u>Req Name</u>	<u>Req Des.</u>	<u>Volvo Max.</u>	<u>Loop Repeat</u>
LOOP ID-CTT					1
010	CTT	Transaction Totals	M	1	
020	SE	Transaction Set Trailer	M	1	



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Segment: ST Transaction Set Header Segment for Purchase Order

Loop:

Option: Mandatory

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

Data Element Summary

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

EXAMPLE: ST*850*12345682.



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Segment: BEG Beginning Segment for Purchase Order

Loop:

Usage: Mandatory

Purpose: To indicate the beginning of a Purchase Order transaction set.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
BEG01	353	Transaction Set Purpose Code Code identifying purpose of transaction set.	M ID 2/2
		Valid Codes: 00 Original	
BEG02	92	Purchase Order Type Code	M ID 2/2
		Valid Codes: BE Blanket Order – Estimated Quantities/ Not Firm Commitment BK Blanket Order – Firm Quantity SA Stand Alone	
BEG03	324	Purchase Order Number	M AN 1/2
		Note: Volvo's Purchase Order Number	
BEG05	373	Date	M DT 8/8
		Note: Date expressed as CCYYMMDD	

EXAMPLE: BEG*00*BK*45123652**20031105.



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Segment: CUR Currency Segment for Product Service Claim

Loop:

Max Use: 1

Option: Manadorty

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

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
CUR01	98	Entity Identifier	M ID 2/3
		Valid Code: BY Buying Party (Purchaser)	
CUR02	100	Currency Code	M ID 3/3
		Note: Standard Alpha ISO Codes	

EXAMPLE: CUR*BY*USD.



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Version: 031030-1

Segment: N1 Name Segment for Purchase Order
 Loop: N1 Repeats: 3
 Usage: Mandatory
 Purpose: To identify parties selling, and buying of items.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
N101	98	Entity Identifier Code Code identifying type of party Valid codes ST Ship To SF Ship From	M ID 2/2
N102	93	Name Free form name of the party	C AN 1/35
N103	66	Identification Code Qualifier Code identifying responsible party for coding Valid codes: 92 Assigned by Buyer	M ID 2/2
N104	67	Identification Code Note: If N101 = ST, use Volvo Motor Graders' assigned code, 10789. If N101 = SF, use Volvo Motor Graders' assigned supplier number	M AN 2/20

EXAMPLE: N1*SF*CBA MFG*92*3120.
 N1*ST*VOLVO MOTOR GRADERS*92*10789.



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Segment:	N3	Address Information Segment for Purchase Order
Loop:	N1	
Usage:	Optional	
Purpose:	To specify the location of the named party.	

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N301	166	Address Information	M AN 1/55

Note:

Street address of the ship to destination

EXAMPLE: N3*160 MAITLAND ROAD.



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Segment: N4 Geographic Location Segment for Purchase Order

Loop: N1

Usage: Optional

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

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
N401	19	City Name	O AN 2/30
		Note: City name of the ship to destination	
N402	156	State or Province	O ID 2/2
		Note: State of the ship to destination	
N403	116	Postal Code	O ID 3/15
		Note: Zip code of the ship to destination	
N404	26	Country Code	M AN 2/20
		Note: Country code of the ship to destination	

EXAMPLE: N4*GODERICH*ON*N7A 3Y6*CA.



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Segment:	PO1	Baseline Item Data Segment for Purchase Order	
Loop:	PO1	Repeats: 100000	
Usage:	Mandatory		
Purpose:	To specify basic and most frequently used line item data.		

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
PO101	350	Assigned Identification	O AN 1/20
		Note: Purchase Order line number	
PO102	330	Quantity Ordered	X R 1/15
PO103	355	Unit or Basis for Measurement Code	O ID 2/2
		Note: Any valid X12 code value except mutually define; 'ZZ'	
PO104	212	Unit Price	X R 1/17
PO105	639	Basis of Unit Price code	O ID 2/2
		Valid codes	
		TC Contract Price per Hundred	
		TE Contract Price per Each	
		TM Contract Price per Thousand	



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PO106	235	Product/Service ID Qualifier	X	ID	2/2
		Valid Qualifier :			
		BP Buyer's Part Number			
PO107	234	Product/Service ID Volvo Part number	X	AN	1/48
PO108	235	Product/Service ID Qualifier	X	ID	2/2
		Valid Qualifier :			
		VP Vendor's Part Number			
PO109	234	Product/Service ID Vendor's Part number	X	AN	1/48
PO110	235	Product/Service ID Qualifier	X	ID	2/2
		Valid Qualifier			
		PD Part Description			
PO111	234	Product/Service ID Volvo Part Description	X	AN	1/48

EXAMPLE: PO1*00006*65*EA*300.57*TE*BP*123564*VP*435612*PD*BUCKET.



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Version: 031030-1

Segment: TAX Tax Reference Segment for Purchase Order
Loop: TAX
Usage: Optional
Purpose: To provide data required for proper notification/determination of applicable taxes applying to the transaction or business described in the transaction.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
TAX02	309	Location Qualifier	X ID 2/2
		Valid Code: SP State/Province	
TAX03	310	Location Identifier	X AN 1/30
		Note: GS Goods and Services Tax ON Ontario Tax	

EXAMPLE: TAX**SP*GS TAX.



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Version: 031030-1

Segment: SCH Line Item Schedule for Purchase Order
Loop: PO1/SCH Repeats: 200
Usage: Optional
Purpose: To specify data for scheduling a specific line item.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
SCH01	380	Quantity	M R 1/15
SCH02	355	Unit or Basis for Measurement Code	M ID 2/2
		Note: Any valid X12 code value except mutually define; 'ZZ'	
SCH05	374	Date/Time Qualifier	M ID 3/3
		Valid Codes: 002 Delivery Requested	
SCH06	373	Date	M DT 8/8
		Note: Delivery Date	

EXAMPLE: SCH*15*EA***002*20030124.
SCH*30*EA***002*20040204.
SCH*20*EA***002*20040405.



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Version: 031030-1

Segment: CTT Transaction Totals Segment for Purchase Order
Loop: CTT
Usage: Mandatory
Purpose: To transmit a hash total for a specific element in the transaction set.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
CTT01	354	Number of Line Items	M NO 1/6
		Note: Total number of PO1 segments	
CTT02	347	Hash Total	O R 1/10
		Note: Total of all quantities in the PO102	

EXAMPLE: CTT*1*10.



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Version: 031030-1

Segment: SE Transaction Set Trailer Segment for Ship Notice.

Loop:

Option: Mandatory

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.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
SE01	96	Number of Included Segments Total number of segments included in a transaction set including the ST and SE	M NO 1/10
SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for the transaction set	M AN 4/9

EXAMPLE: SE*30*747682.



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1.1 Example 1

Volvo Motor Graders

This is a stand alone purchase order for Volvo Motor Graders(VMG). The cost of the part is \$300.57 per piece and the order is for a quantity of 65. There are three delivery dates for this part, with three different quantities to be shipped.

ST*850*12345682.

BEG*00*SA*4512365220031105.**

CUR*BY*USD.

N1*SF*REB MANUFACTURING*92*3120.

N1*ST*VOLVO MOTOR GRADERS*92*10789.

N3*160 MAITLAND ROAD.

N4*GODERICH*ON*N7A 3Y6*CA.

PO1*00006*65*EA*300.57*TE*BP*123564*VP*435612*PD*BUCKET.

SCH*15*EA*002*20030124.**

SCH*30*EA*002*20040204.**

SCH*20*EA*002*20040405.**

CTT*1*10.

SE*13*12345682.

