

VOLVO Dealer Programs 850 Purchase Order EDI Guidelines

Applications of ASC 12

Version: 0108-6

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 to transmit purchase orders for Volvo's Dealerships. The transaction identifies the part number ordered, required shipped date, Volvo's purchase order number, Dealer's purchase order number, Program number, along with the ship to address of the order. Volvo will always use the Volvo part number unless one has not been established for the Supplier's part number otherwise Volvo will use the Supplier part number for those exceptions.

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 the Dealer per the order. This transaction will be used in conjunction with the Ship Direct and Direct Ship programs.



VOLVO Dealer Programs

850 Purchase Order

EDI Guidelines

Applications of ASC 12

Version: 0108-6

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.



VOLVO Dealer Programs
850 Purchase Order
EDI Guidelines

Applications of ASC 12

Version: 0108-6

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	M	1	
050	REF	Reference Identification	M	>1	
LOOP ID-N1					4
310	N1	Name	M	1	
330	N3	Address	M	1	
340	N4	Geographic Location	M	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	
210	DTM	Date/Time Reference	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	



VOLVO Dealer Programs

850 Purchase Order

EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: ST Transaction Set Header Segment for Purchase Order

Loop: Header

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.



VOLVO Dealer Programs

850 Purchase Order

EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: BEG Beginning Segment for Purchase Order

Loop: Header

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. Valid Codes: 00 Original 01 Cancellation	M ID 2/2
BEG02	92	Purchase Order Type Code Valid Codes: SA Stand Alone	M ID 2/2
BEG03	324	Purchase Order Number Note: Volvo's Purchase Order Number	M AN 1/22
BEG05	373	Date Note: Date expressed as CCYYMMDD	M DT 8/8

EXAMPLE: BEG*00*SA*V123456**20010605.



VOLVO Dealer Programs

850 Purchase Order
EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: CUR Currency Segment for Product Service Claim
Loop: Header
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 Valid Code: BY Buying Party (Purchaser)	M ID 2/3
CUR02	100	Currency Code Note: Standard Alpha ISO Codes	M ID 3/3

EXAMPLE: CUR*BY*USD.



VOLVO Dealer Programs

850 Purchase Order

EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment:	REF	Reference Numbers Segment for Purchase Order
Loop:	Header	Repeats: >1
Usage:	Mandatory	
Purpose:	To specify identifying information.	

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
REF01	128	Reference Number Qualifier	M ID 2/3

Valid codes:

CR	Customer Reference Number
DC	Dealer Purchase Order Number
PD	Promotion/Deal Number

REF02	127	Reference Number	M AN 1/30
-------	-----	------------------	-----------

Note:

If REF01 = CR, Order Class is given:

- 1 - unit down
- 2 - emergency
- 3 - stock

If REF01 = DC use Volvo's Dealer Purchase Order Number

If REF01 = PD use Volvo's Program Number

REF03	352	Description	X AN 1/80
-------	-----	-------------	-----------

Note:

If REF02 = class 1 or 2, Dealer shipping instructions, plus dealer's freight acct.no. will be given or special instruction regarding shipment

Example: REF*DC*A12345.

REF*PD*100.

REF*CR*1*SHIP FEDEX OVERNIGHT.



VOLVO Dealer Programs

850 Purchase Order
EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: N1 Name Segment for Purchase Order
 Loop: N1 Repeats: 4
 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	M ID 2/2
		Valid codes	
		BY Buying Party (Purchaser)	
		SO Sold To	
		ST Ship To	
		SF Ship From	
N102	93	Name Free form name of the party	C AN 1/35
N103	66	Identification Code Qualifier Code identifying responsible party for coding	M ID 2/2
		Valid codes:	
		92 Assigned by Buyer	
N104	67	Identification Code	M AN 2/20
		Note:	
		If N101 = BY, Volvo location buying the goods	
		If N101 = SO, Volvo's assigned Dealer Acct.	
		If N101 = ST, Volvo's assigned Dealer Acct.	
		If N101 = SF, Volvo's assigned Supplier No.	

EXAMPLE: N1*BY*VOLVO TRUCKS NORTH AMERICA*92*4173.
 N1*SO*VOLVO TRUCKS OF MICHIGAN*92*5201D.
 N1*Sf*REB MANUFACTURING*92*63635.
 N1*ST*CBA VOLVO*92*5201D12.



VOLVO Dealer Programs

850 Purchase Order

EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment:	N3	Address Information Segment for Purchase Order
Loop:	N1	
Usage:	Mandatory	
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*7181 INDUSTRIAL BLVD.



VOLVO Dealer Programs

850 Purchase Order

EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment:	N4	Geographic Location Segment for Purchase Order
Loop:	N1	
Usage:	Mandatory	
Purpose:	To specify the geographic place of the named party.	

Data Element Summary

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

EXAMPLE: N4*BELLEVIEW*MI*48178*US.



VOLVO Dealer Programs

850 Purchase Order

EDI Guidelines

Applications of ASC 12

Version: 0108-6

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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
PO101	350	Assigned Identification	M AN 1/20
PO102	330	Quantity Ordered	M R 1/15
PO103	355	Unit or Basis for Measurement Code	M ID 2/2

Valid codes

EA	Each
FT	Foot
HU	100 Pieces
GA	Gallon
GR	Gram
KG	Kilogram
LB	Pound
LT	Liter
MR	Meter
OU	Ounce
PK	Package
T3	1000 Pieces

Note: Default value is EA

PO104	212	Unit Price	M R 1/17
-------	-----	------------	----------



VOLVO Dealer Programs

850 Purchase Order

EDI Guidelines

Applications of ASC 12

Version: 0108-6

PO106	235	Product/Service ID Qualifier	M	ID	2/2
		Valid Qualifier :			
		BP Buyer's Part Number			
PO107	234	Product/Service ID Volvo Part number	M	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*10*EA*12.5*TE*BP*V123564*VP*435612*PD*GASKET.



VOLVO Dealer Programs

850 Purchase Order
EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: DTM Date/Time Reference Segment for Purchase Order
Loop: PO1
Usage: Optional
Purpose: Code specifying type of date or time, or both date and time

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
DTM01	374	Date/Time Qualifier	M ID 2/2
		Valid Qualifier	
		011 Shipped	
		001 Cancelled	
DTM02	373	Date	M DT 8/8
		Note: Date express as CCYYMMDD	

EXAMPLE: DTM*011*20010724.



VOLVO Dealer Programs
850 Purchase Order
EDI Guidelines

Applications of ASC 12

Version: 0108-6

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.



VOLVO Dealer Programs

850 Purchase Order

EDI Guidelines

Applications of ASC 12

Version: 0108-6

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. Des.</u>	<u>Data 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.



VOLVO Dealer Programs
850 Purchase Order
EDI Guidelines

Applications of ASC 12

Version: 0108-6

1.1 Example 1

Volvo Trucks North America

This is a purchase order for Volvo Dealership, 5201D. The dealer has order part 123564 to be shipped directly to one of the dealer's ship to. The cost of the part is \$12.50 per piece and the order is for a quantity of 10. The dealer has required the supplier to ship the part on July 24, 2001.

ST*850*12345682.
BEG*00*SA*5376D-1093220010605.**
CUR*BY*USD.
REF*DC*REB123456.
REF*PD*100.
N1*BY*VOLVO TRUCKS NORTH AMERICA*92*4173.
N1*SO*VOLVO TRUCKS OF MICHIGAN*92*5201D.
N1*SF*REB MANUFACTURING*92*63635.
N1*ST*CBA VOLVO*92*5201D12.
N3*7181 INDUSTRIAL BLVD.
N4*BELLEVIEW*MI*48178*US.
PO1*00001*10*EA*12.5*TE*BP*123564*VP*435612*PD*GASKET.
DTM*011*20010724.
CTT*1*10.
SE*15*12345682.



VOLVO Dealer Programs
850 Purchase Order
EDI Guidelines

Applications of ASC 12

Version: 0108-6

1.1 Example 2

Volvo Trucks North America

This is an emergency/unit down order for Volvo Dealership, 5201D. The dealer has order part 342543 to be shipped overnight to the dealership. The cost of the part is \$4550.50. The dealer has required the part be shipped FedEx and the dealer's account for FedEx is FD987456321.

**ST*850*12345682.
BEG*00*SA*5376D-10932**20030723.
CUR*BY*USD.
REF*DC*REB123456.
REF*PD*100.
REF*CR*1*SHIP FEDEX OVERNIGHT-ACCT NO FD987456321.
N1*BY*VOLVO TRUCKS NORTH AMERICA*92*4173.
N1*SO*VOLVO TRUCKS OF MICHIGAN*92*5201D.
N1*SF*KCAS MANUFACTURING*92*53314.
N1*ST*CBA VOLVO*92*5201D12.
N3*7181 INDUSTRIAL BLVD.
N4*BELLEVIEW*MI*48178*US.
PO1*00001*1*EA*4550.55*TE*BP*342543*VP*231232*PD*ENGINE.
DTM*011*20030724.
CTT*1*10.
SE*15*12345682.**