

1. 810 INVOICE

General

This document describes Volvo's application of the ANSI X12 transaction set 810 Invoice.

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

The basis for this application is the AIAG implementation guideline version 003 release 50.

The purpose and basic function of the message

The purpose of the invoice is to issue a request for payment concerning executed shipments sent to the consignee, according to the conditions agreed upon.

An invoice must always refer to at least one Dispatch Note/Advance Shipment Notice to be accepted by Volvo.

An Advance Shipment Notice should always correspond to a consignment defined as a certain quantity of goods shipped from a certain consignor to a certain consignee on a certain occasion. For further information please contact Volvo.

1.1 Documentation requirements in connection with electronic invoicing

Obviously there is a need for placing high demands on the internal invoicing systems of both sellers and buyers. The original invoice transactions must be saved and be able to be presented by both parties for a period regulated by national laws. The supplier's EDI system must have the capability to re-transmit an invoice file upon request.

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The information contained within an invoice must correspond with the issuer as well as the receiver. Volvo will **not** accept any errors in the invoice and will **not** change its content in any way.

Volvo has the responsibility of giving “sufficient notification”, to the sender if/when an invalid invoice is received. By either verbal conversation, voice mail, EDI transaction (acknowledgment), or by fax. Either of the aforementioned methods shall be considered “sufficient notification” of invalid invoice transmissions.

It shall be the responsibility of the supplier to “follow-up” with Volvo after notification has been made; identify problems; make corrections, and re-transmit all corrected invoices in a timely manner.

Each individual Volvo company shall notify the supplier when paper invoices should cease to be sent.

Note:

For import and export shipments, paper invoices are required as one of the Transport Documents.

The document must be complete and correct before the payment can be executed.

1.2 Creation and issue of invoice

An invoice is based on an accomplished delivery or dispatch.

The invoice shall contain the same information as a regular invoice document, i.e., both the information for payment and complete specifications over the invoiced items. Within Volvo we have the following segment structure and detailed contents in this segment.

Special Note: Dealer invoices, there can ONLY be one purchase order per invoice.



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1.3 Volvo subset of ANSI standard transaction set 810

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	BIG	Beginning Segment for Invoice	M	1	
040	CUR	Currency	M	1	
050	REF	Reference Numbers	M	3	
LOOP ID-N1					4
070	N1	Name	M	4	
090	N3	Address Information	M	1	
100	N4	Geographic Location	M	1	
110	REF	Reference Numbers	M	1	
130	ITD	Terms of Sale/Deferred Terms of Sale	O	1	
140	DTM	Date/Time reference	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-IT1					200000
010	IT1	Baseline Item Data (Invoice)	M	1	
030	TXI	Tax Information	O	5	
037	REF	Reference Numbers	O	>1	
LOOP ID-IT1/SAC					12
180	SAC	Service, Promotion, Allowance or Charge Information	O	12	
030	TXI	Tax Information	O	5	

SUMMARY:

<u>Pos. No</u>	<u>Seg. ID</u>	<u>Req Name</u>	<u>Ref Des.</u>	<u>Volvo Max</u>	<u>Loop Repeat</u>
010	TDS	Total Monetary Value Summary	M	1	
020	TXI	Tax Information	O	5	
LOOP ID-SAC					12
040	SAC	Service, Promotion, Allowance. Or	O	12	



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Charge Information				
050	TXI	Tax Information	O	5
070	CTT	Transactions Totals	M	1
020	SE	Transaction Set Trailer	M	1



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Segment: ST Transaction Set Header Segment for Invoice.

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 810 Invoice	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*810*747682.



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Segment: BIG Beginning Segment for Invoice.

Loop: Header

Option: Mandatory

Purpose: To indicate the beginning of an invoice transaction set (message), and to transmit identifying numbers and dates.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
BIG01	373	Date The invoice creation date Format: YYMMDD	M DT 6/6
BIG02	76	Invoice Number Unique number for the invoice. It may not be repeated within one year	M AN 1/22
BIG07	640	Transaction Type Code Code identifying a release against a purchase order. Valid Codes: CI Consolidated Invoice	O ID 2/2

EXAMPLE: BIG*030801*123456*****CI.



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Segment: CUR Currency Segment for Invoice.

Loop: Header

Option: Mandatory

Purpose: To specify the currency (US dollars, Swedish krona, etc.) used in a 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 2/2
		Valid Code:	
		II Issue of Invoice	
CUR02	100	Currency Code Standard Alpha ISO Codes	M ID 3/3

EXAMPLE: CUR*II*USD.



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Segment: REF Reference Numbers Segment for Invoice.

Loop: Max Use: 1

Option: Mandatory

Purpose: To specify identifying numbers.

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 2/2
		Valid codes:	
		SI Shipment Identification Number	
REF02	127	Reference Number	M AN 1/30

Note:

SID number must match the ASN's SID no.

EXAMPLE: REF*SI*E23145989.



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Segment: N1 **Name Segment for Invoice Segment for Invoice.**
Loop: N1 **Max Use:** 5
Option: Mandatory
Purpose: To identify a party by type of organization with name and identity code.

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: BY Buying Party (Purchaser) SO Sold To ST Ship To SF Ship From	M ID 2/2
N102	93	Name Free form name of the party	M AN 1/35
N103	66	Identification Code Qualifier Code identifying responsible party for coding 92 Assigned by Buyer or Buyer's agent	M ID 2/2



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N104	67	Identification Code	M AN 2/20
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Code Identifying the party

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*SF*ABC CORPORATION*92*12345.
N1*ST*CB VOLVO OF MICHIGNA*92*5101D.
N1*BY*VOLVO TRUCK NA*92*4173.
N1*SO*ABC CORPORATION*92*56473.



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Segment: N3 **Address Information Segment for Invoice**
Loop: N1
Usage: Mandatory
Purpose: To specify the location 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>
N301	166	Address Information	M AN 1/55

Note:

Street address of the ship to destination

EXAMPLE: N3*7181 INDUSTRIAL BLVD.



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Segment: N4 **Geographic Location Segment for Invoice**
Loop: N1
Usage: Mandatory
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	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 2/20
		Note: Country code of the ship to destination	

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



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Segment: ITD Terms of Sale/Deferred Terms of Sale Segment for Invoice
Loop:
Optional: Optional
Purpose: To specify terms of sale.
Note: The segment is only to be used after special agreement.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
ITD06	446	Terms Net Due Date	C DT 6/6

Format: YYMMDD

EXAMPLE: ITD*****030901.



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Segment: DTM Date/Time Reference Segment for Invoice

Loop: Header

Option: Mandatory

Purpose: To specify shipment date.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
DTM01	374	Date/Time Reference	M ID 3/3
		Valid code: 011 Shipped Date	
DTM02	373	Date Shipment date. Format: YYMMDD	M DT 6/6

EXAMPLE: DTM*011*010731.



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Segment: IT1 Baseline Item Data(Invoice) Segment for Invoice

Loop: IT1 **Max Use:** 200000

Option: Mandatory

Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions.

Special Note: Only ONE Volvo purchase order number per invoice.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
IT101	350	Assigned Identification	O AN 1/11
		Note: Line Number from Purchase Order per Part	
IT102	358	Quantity Invoiced Delivered quantity of the article	M R 1/10
IT103	355	Unit or Basis for Measurement Code	M ID 2/2

Valid codes:

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

Note: Default value is EA (each).



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IT104	212	Unit Price Price per part.	M	R	1/17
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Note:

This value is given with 2 decimals.

IT105	639	Basis of Unit Price Code Price Unit, i.e. the multiple of the presented price.	M	ID	2/2
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Valid codes:

PE price per 1 unit of the part
HP price per 100 units of the part
TP price per 1000 units of the part

IT106	235	Product/Service ID Qualifier	M	ID	2/2
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Valid Qualifier:

BP Buyer's Part Number

IT107	234	Product/Service ID Volvo part number	M	AN	1/40
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IT108	235	Product/Service ID Qualifier	M	ID	2/2
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Valid Qualifier:

PO Purchase Order Number

IT109	234	Product/Service ID Volvo purchase order number	M	AN	1/40
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IT110	235	Product/Service ID Qualifier	O	ID	2/2
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Valid Qualifier:

PD Part Description

IT111	234	Product/Service ID Part description	X	AN	1/40
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IT112	235	Product/Service ID Qualifier	M ID	2/2
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Valid Qualifier:

VP Vendor Part Number

IT113	234	Product/Service ID Vendor part number	M AN	1/40
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EXAMPLE: IT1**15*EA*150.75*PE*BP*80812345*PO*M12345*PD*
AXLE*VP*123456.



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Segment: TXI Tax Information Segment for Invoice

Loop: IT1 **Max Use:** 5

Option: Optional

Purpose: To specify the tax per part.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
TXI01	963	Tax Type Code	M ID 2/2
		Valid codes:	
		LT Local Sales Tax	
		ST State Sales Tax	
		PV Tax for Canada - Provincial Tax	
		QS Tax for Canada - Quebec Tax	
		GS Tax for Canada	
TXI02	782	Monetary Amount Tax amount according to TXI01 code	M R 1/15

EXAMPLE: TXI*LT*75.25.



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Segment: REF Reference Numbers Segment for Invoice

Loop: IT1 Repeats: 2

Option: Mandatory

Purpose: To specify Vehicle number and Serial Number of major components.

Special Note: Only one Program number per invoice.

Only one Dealer Purchase Order number per invoice.

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 2/2
		Valid code:	
		DC Dealer Purchase Order Number	
		PD Promotion/Deal Number	
REF02	127	Reference Number	M AN 1/30

Note:

If REF01 = DC use Dealer Purchase Order

If REF02 = PD use Volvo's Program No.

EXAMPLE: REF*DC*CB200106.
REF*PD*100A.



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Segment: SAC Service, Promotion, Allowance, or Charge Information
Segment for Invoice

Loop: IT1/SAC Max Use: 12

Option: Optional

Purpose: To specify the special charges per part.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
SAC01	248	Allowance or Charge Indicator	M ID 1/1
		Valid codes: A Allowance C Charge	
SAC02	1300	Service, Promotion, Allowance or Charge Code	M ID 4/4
		Valid codes: A320 Air Transportation (Aftermarket Only) B750 Core Charge C310 Discount C830 Expanded Services D240 Freight D900 Installation E820 Non-Returnable Containers E890 Ocean Freight (Aftermarket Only) G510 Returnable Containers G530 Rework G760 Set-up H090 Special Handling H110 Special Packaging I110 Tooling	
SAC05	610	Amount	M N2 1/15



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SAC12 **331** **Allowance or Charge Method of Handling Code** **M ID** **2/2**

Valid codes:

04 Credit Customer Account

06 Charge to be Paid by Customer

SAC15 **352** **Description** **O AN** **1/80**
Description of the SAC 02 code

EXAMPLE: SAC*C*H090***10050*****06***SPECIAL WRAPPING -
PLASTIC.



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Segment: TXI Tax Information Segment for Invoice

Loop: IT1/SAC Max Use: 5

Option: Optional

Purpose: To specify the tax for the special charges per part.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
TXI01	963	Tax Type Code	M ID 2/2
		Valid codes:	
		LT Local Sales Tax	
		ST State Sales Tax	
		PV Tax for Canada - Provincial Tax	
		QS Tax for Canada - Quebec Tax	
		GS Tax for Canada	
TXI02	782	Monetary Amount Tax amount according to TXI01 code	M R 1/15

EXAMPLE: TXI*LT*75.25.



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Segment: TDS Total Monetary Value Summary Segment for Invoice

Loop:

Option: Mandatory

Purpose: To specify the total invoice discounts and amounts.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
TDS01	610	Amount Total Amount of invoice Including tax and allowance/charges	M N2 1/15

EXAMPLE: TDS*1575750.



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Version: 0108-6

Segment: TXI Tax Information Segment for Invoice

Loop: Max Use: 5

Option: Optional

Purpose: To specify the tax per the total invoice.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
TXI01	963	Tax Type Code	M ID 2/2
		Valid codes:	
		LT Local Sales Tax	
		ST State Sales Tax	
		PV Tax for Canada - Provincial Tax	
		QS Tax for Canada - Quebec Tax	
		GS Tax for Canada	
TXI02	782	Monetary Amount Tax amount according to TXI01 code	M R 1/15

EXAMPLE: TXI*LT*75.25.



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Segment: SAC Service, Promotion, Allowance, or Charge Information
Segment for Invoice

Loop: SAC **Max Use:** 12

Option: Optional

Purpose: To specify the special charges per the total invoice.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
SAC01	248	Allowance or Charge Indicator Valid codes: A Allowance C Charge	M ID 1/1
SAC02	1300	Service, Promotion, Allowance or Charge Code Valid codes: A320 Air Transportation (Aftermarket Only) B750 Core Charge C310 Discount C830 Expanded Services D240 Freight D900 Installation E820 Non-Returnable Containers E890 Ocean Freight (Aftermarket Only) G510 Returnable Containers G530 Rework G760 Set-up H090 Special Handling H110 Special Packaging I110 Tooling	M ID 4/4
SAC05	610	Amount	M N2 1/15



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SAC12	331	Allowance or Charge Method of Handling Code	M ID	2/2
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Valid codes:

04	Credit Customer Account
06	Charge to be Paid by Customer

SAC15	352	Description	O AN	1/80
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Description of the SAC 02 code

EXAMPLE: SAC*C*H090***10050*****06***SPECIAL WRAPPING -
PLASTIC.



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Segment: TXI Tax Information Segment for Invoice
Loop: SAC Max Use: 5
Option: Optional
Purpose: To specify the tax on the special charges per invoice.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
TXI01	963	Tax Type Code	M ID 2/2
		Valid codes:	
		LT Local Sales Tax	
		ST State Sales Tax	
		PV Tax for Canada - Provincial Tax	
		QS Tax for Canada - Quebec Tax	
		GS Tax for Canada	
TXI02	782	Monetary Amount Tax amount according to TXI01 code	M R 1/15

EXAMPLE: TXI*LT*75.25.



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Segment: CTT Transaction Totals Segment for Invoice

Loop:

Option: Mandatory

Purpose: To transmit a hash total for a specific element in the transaction set.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
CTT01	354	Number of Line Items Total number of IT1 segments sent	M N0 1/6
CTT02	347	Hash Totals The total amount of the invoice (excluding extra costs and added tax. i.e. the total value of the goods Note: The amount can be specified to a total of two decimal places	M R 1/10

EXAMPLE: CTT*15*1261.25.



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Segment: SE Transaction Set Trailer Segment for Invoice.

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 N0 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*17*747682.



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1.4 Examples of Application for 810 Implementation

The following examples include only mandatory segments and data elements that meet Volvo's requirements.

1.4.1 Example 1

This invoice consists of one part/article number for goods shipped to CB Volvo of Michigan. The price of the part is \$250.75 with a special handling of \$75.00. The quantity shipped is 100 pieces. There is no tax on the invoice.

ST*810*747682.
BIG*030801*123456*****CI.
CUR*II*USD.
REF*SI*E23145989.
N1*BY*VOLVO TRUCKS NORTH AMERICA*91*12345678912345678.
N1*SF*ABC CORPORATION*92*76140.
N1*ST*CBA VOLVO OF MICHIGAN*92*5101D.
N3*7181 INDUSTRIAL BLVD.
N4*BELLEVIEW*MI*48178*US.
ITD*****030901.
DTM*011*030731.
IT1**100*EA*250.75*PE*BP*80812345*PO*5101D-10222*PD*ENGINE
MOUNT*VP*623425.
SAC*C**H090***7500*****06***SPECIAL WRAPPING - PLASTIC.
REF*DC*CB200106.
REF*PD*100A.
TDS*258250.
CTT*1*2507.50.
SE*19*747682.