



PRODUCTION LINE-SEQUENCE

Volvo's Implementation Guidelines 866 PRODUCTION SEQUENCE Version 201410-13; Revision 03



866 Production Sequence

Functional Group ID= \mathbf{SQ}

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Production Sequence Transaction Set (866) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for the receiver of goods to request the order in which shipments of goods arrive at one or more locations, or to specify the order in which the goods are to be unloaded from the conveyance method, or both. This specifies the sequence in which the goods are to enter the materials handling process, or are to be consumed in the production process, or both. This transaction set shall not be used to authorize labor, materials, or other resources. This transaction set shall not be used to revise any product characteristic specification.

Notes:

This transaction set is utilized by both the Mack and Volvo brand truck groups to communicate line-sequenced part information. These transactions are transmitted on a daily basis by plant and build date.

M	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	<u>Name</u> Transaction Set Header	Req. Des. M	Max.Use	Loop <u>Repeat</u>	Notes and Comments
M	020	BSS	Beginning Segment for Shipping Schedule/Production Sequence	M	1		
			LOOP ID - N1			>1	
M	040	N1	Name	M	1		
			LOOP ID - DTM			100	
M	110	DTM	Date/Time Reference	M	1		
			LOOP ID - LIN			>1	
M	150	LIN	Item Identification	M	1		
	170	QTY	Quantity	O	1		
M	195	CTT	Transaction Totals	M	1		n1
M	200	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The number of line items (CTT01) is the accumulation of the number of DTM segments. If used, hash total (CTT02) is the sum of the value of quantity (QTY02) for each QTY segment.

V086610 (004010) 2 October 13, 2014



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Segment: ST Transaction Set Header

Position: 010

Loop: Level:

Usage: Mandatory

Max Use:

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).

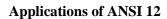
Comments:

Notes:

EXAMPLE:

ST*866*1234562@

M	Ref. Des. ST01	Data Element 143	Name Transaction Set Identifier Code	Attr M	ributes ID 3/3
			Code uniquely identifying a Transaction Set 866 Production Sequence		
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transfunctional group assigned by the originator for a transaction s		AN 4/9 ion set



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Segment: BSS Beginning Segment for Shipping Schedule/Production Sequence

Position: 0

Loop: Level:

Usage: Mandatory

Max Use:

Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set

Syntax Notes: 1 At least one of BSS07 or BSS08 is required.

Semantic Notes: 1 Use BSS02 to indicate a document number.

2 Use BSS03 to indicate the date of this document.

3 Use BSS05 to indicate the schedule horizon start date (the date when the schedule begins).

4 Use BSS06 to indicate the schedule horizon end date (the date when the schedule ends).

BSS08 is the identifying number for a forecast assigned by the orderer/purchaser.

Comments:

Notes: BSS*05*123456*20100107*DL*20100108*20100127@

	Ref.	Data	Duca Bioliticité Sullimary		
	Des.	Element	<u>Name</u>	Attı	<u>ributes</u>
M	BSS01	353	Transaction Set Purpose Code	M	ID 2/2
			Code identifying purpose of transaction set		
			<u>05</u> Replace		
M	BSS02	127	Reference Identification	\mathbf{M}	N 6/6
			OEM assigned identification number RJ/Zero filled		
			PARMA (PARtner MAster identification)		
M	BSS03	373	Date	\mathbf{M}	DT 8/8
			Date expressed as CCYYMMDD		
			EDI TRANSACITON DATE		
M	BSS04	675	Schedule Type Qualifier	M	ID 2/2
			Code identifying the type of dates used when defining a shipp time in a schedule or forecast	oing o	or delivery
			JS Buyer Production Sequence Schedule		
M	BSS05	373	Date	M	DT 8/8
			Date expressed as CCYYMMDD		
			SCHEDULE BEGIN DATE.		
M	BSS06	373	Date	M	DT 8/8
			Date expressed as CCYYMMDD		
			SCHEDULE END DATE.		



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Segment: N1 Name

Position: 040

Loop: N1 Mandatory

Level:

Usage: Mandatory

Max Use:

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.

N105 and N106 further define the type of entity in N101.

Notes: **EXAMPLE**:

N1*ST**92*4287@ N1*SF**92*23346@

			2 4144 2141		
	Ref.	Data			
	Des.	Element	<u>Name</u>		<u>Attributes</u>
M	N101	98	Entity Identifier	Code	M ID 2/3
			Code identifying a individual	n organizational entity, a physical location,	property or an
			SF	Ship From	
			ST	Ship To	
	N102	93	Name		X AN 1/60
			Free-form name		
	N103	66	Identification Co	de Qualifier	X ID 1/2
			Code designating to Code (67)	he system/method of code structure used for	or Identification
			92	Assigned by Buyer or Buyer's Agent	
	N104	67	Identification Co	de	X AN 2/80
			Code identifying a	party or other code	
			"SF" VOLVO	OR MACK ASSIGNED SUPPLIE	ER CODE.
			"ST" VOLVO	OR MACK ASSIGNED PLANT	CODE.

Segment: DTM Date/Time Reference

Position: 110

Loop: DTM Mandatory

Level:

Usage: Mandatory

Max Use:

Purpose: To specify pertinent dates and times

Syntax Notes: 1 At least one of DTM02 DTM03 or DTM05 is required.

If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes: Comments:

Notes: **EXAMPLE**:

DTM*002*20090310@

LIN**LS*001*JS*H090310001*CF*007679*ON*053113***BP*20992162@

QTY*01*10@

LIN**LS*002*JS*H090310002*CF*005038*ON*052761***BP*20992162@

QTY*01*10@

DTM*002*20090311@

LIN**LS*001*JS*H090311001*CF*007919*ON*053328***BP*20357238@

OTY*01*8@

LIN**LS*002*JS*H090311002*CF*007919*ON*053328***BP*20992162@

QTY*01*2@

DTM*002*20090312@

LIN**LS*001*JS*H090312001*CF*010260*ON*053556***BP*20446232@

QTY*01*8@

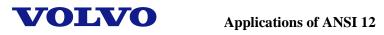
LIN**LS*002*JS*H090312002*CF*051267*ON*056880***BP*23488871@

QTY*01*3@

Data Element Summary

Ref. Data Des. Element Name **Attributes** M **DTM01** 374 **Date/Time Qualifier** M ID 3/3 Code specifying type of date or time, or both date and time 002 Delivery Requested DTM02 373 Date X DT 8/8 Date expressed as CCYYMMDD

> NOTE: This element is repeated for each date change in linesequence order.



 \mathbf{M}

 \mathbf{M}

 \mathbf{M}

M

Segment:		Item Identification		
Position:	150			
Loop:		Mandatory		
Level:		·		
Usage:	Mandato	ory		
Max Use:	1			
Purpose:	-	fy basic item identification data		
Syntax Notes:		ther LIN04 or LIN05 is present, then the other is required.		
		ther LIN06 or LIN07 is present, then the other is required.		
		ther LIN08 or LIN09 is present, then the other is required. ther LIN10 or LIN11 is present, then the other is required.		
		ther LIN12 or LIN13 is present, then the other is required.		
		ther LIN14 or LIN15 is present, then the other is required.		
		ther LIN16 or LIN17 is present, then the other is required.		
		ther LIN18 or LIN19 is present, then the other is required.		
		ther LIN20 or LIN21 is present, then the other is required. ther LIN22 or LIN23 is present, then the other is required.		
		ther LIN24 or LIN25 is present, then the other is required.		
		ther LIN26 or LIN27 is present, then the other is required.		
Semantic Notes:		01 is the line item identification		
Comments:		the Data Dictionary for a complete list of IDs.		
		02 through LIN31 provide for fifteen different product/service		
Notes:		example: Case, Color, Drawing No., U.P.C. No., ISBN No.,	Model N	No., or SKU.
Notes:	EXAMP		L 3 D ± 4	010455
(MACE)		JS*W090107 <mark>004</mark> *CF*229934*0N*056880*		
(MACK)		936*PO*M41139-567*BO*MACK RED 1109	9*PS*	TEE.L.
	SIDE*	A3*D26014*TP*35@		
		VOLVO:		
(VOLVO)		LS*001*JS*V090603 <mark>035</mark> *CF*289151*ON		
	4318*	BP*20511826*PO*M284408***PS*RH 15	CAT.T.	∩NTC
			GALL	ONS
		Data Element Summary	САПП	ONS
Ref.	Data			
<u>Des.</u>	Element	<u>Name</u>	<u>Attr</u> i	<u>ibutes</u>
		Name Product/Service ID Qualifier	<u>Attri</u> M	
<u>Des.</u>	Element	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number	<u>Attri</u> M	<u>ibutes</u>
<u>Des.</u> LIN02	Element 235	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234)	<u>Attri</u> M	<u>ibutes</u>
Des. LIN02 (VOLV	Element 235 O ONLY	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Load Sequence Number	Attri M used in	ibutes ID 2/2
<u>Des.</u> LIN02	Element 235	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Load Sequence Number Product/Service ID	Attri M used in	<u>ibutes</u>
Des. LIN02 (VOLV	Element 235 O ONLY	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Load Sequence Number Product/Service ID Identifying number for a product or service	Attri M used in	ibutes ID 2/2
Des. LIN02 (VOLV	Element 235 O ONLY	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Load Sequence Number Product/Service ID Identifying number for a product or service VOLVO LINE SEQUENCE NUMBER.	Attri M used in	ibutes ID 2/2
Des. LIN02 (VOLV LIN03	Element 235 70 ONLY 234	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) T) LS Load Sequence Number Product/Service ID Identifying number for a product or service VOLVO LINE SEQUENCE NUMBER. LS = 001, 002, 003, 004, ETC.	Attri M used in M	ibutes ID 2/2 AN 10/10
Des. LIN02 (VOLV	Element 235 O ONLY	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Load Sequence Number Product/Service ID Identifying number for a product or service VOLVO LINE SEQUENCE NUMBER. LS = 001, 002, 003, 004, ETC. Product/Service ID Qualifier	Attri M used in M	ibutes ID 2/2
Des. LIN02 (VOLV LIN03	Element 235 70 ONLY 234	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Load Sequence Number Product/Service ID Identifying number for a product or service VOLVO LINE SEQUENCE NUMBER. LS = 001, 002, 003, 004, ETC. Product/Service ID Qualifier Code identifying the type/source of the descriptive number	Attri M used in M	ibutes ID 2/2 AN 10/10
Des. LIN02 (VOLV LIN03	Element 235 70 ONLY 234	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) T) LS Load Sequence Number Product/Service ID Identifying number for a product or service VOLVO LINE SEQUENCE NUMBER. LS = 001, 002, 003, 004, ETC. Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234)	Attri M used in M	ibutes ID 2/2 AN 10/10
Des. LIN02 (VOLV LIN03 LIN04	Element 235 O ONLY 234 235	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) T) LS Load Sequence Number Product/Service ID Identifying number for a product or service VOLVO LINE SEQUENCE NUMBER. LS = 001, 002, 003, 004, ETC. Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) JS Job Sequence Number	Attri M used in M M used in	ibutes ID 2/2 AN 10/10 ID 2/2
Des. LIN02 (VOLV LIN03	Element 235 70 ONLY 234	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) LS Load Sequence Number Product/Service ID Identifying number for a product or service VOLVO LINE SEQUENCE NUMBER. LS = 001, 002, 003, 004, ETC. Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) JS Job Sequence Number Product/Service ID	Attri M used in M M used in	ibutes ID 2/2 AN 10/10
Des. LIN02 (VOLV LIN03 LIN04	Element 235 O ONLY 234 235	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) T) LS Load Sequence Number Product/Service ID Identifying number for a product or service VOLVO LINE SEQUENCE NUMBER. LS = 001, 002, 003, 004, ETC. Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) JS Job Sequence Number Product/Service ID Identifying number for a product or service	Attri M used in M M used in	ibutes ID 2/2 AN 10/10 ID 2/2
Des. LIN02 (VOLV LIN03 LIN04	Element 235 O ONLY 234 235	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) T) LS Load Sequence Number Product/Service ID Identifying number for a product or service VOLVO LINE SEQUENCE NUMBER. LS = 001, 002, 003, 004, ETC. Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) JS Job Sequence Number Product/Service ID Identifying number for a product or service FORMAT IS: XYYMMDDNNN	Attri M used in M wed in	ibutes ID 2/2 AN 10/10 ID 2/2
Des. LIN02 (VOLV LIN03 LIN04	Element 235 O ONLY 234 235	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Load Sequence Number Product/Service ID Identifying number for a product or service VOLVO LINE SEQUENCE NUMBER. LS = 001, 002, 003, 004, ETC. Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) JS Job Sequence Number Product/Service ID Identifying number for a product or service FORMAT IS: XYYMMDDNNN X = PLANT-LINE INDICATOR	Attri M used in M wed in	ibutes ID 2/2 AN 10/10 ID 2/2
Des. LIN02 (VOLV LIN03 LIN04	Element 235 O ONLY 234 235	Name Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) T) LS Load Sequence Number Product/Service ID Identifying number for a product or service VOLVO LINE SEQUENCE NUMBER. LS = 001, 002, 003, 004, ETC. Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) JS Job Sequence Number Product/Service ID Identifying number for a product or service FORMAT IS: XYYMMDDNNN	Attri M used in M wed in	ibutes ID 2/2 AN 10/10 ID 2/2



LIN06	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number use	ed in	
		Product/Service ID (234)		
T TN10=	22.4	Chassis Serial Number	T 7	A 3.7 C/C
LIN07	234	Product/Service ID	X	AN 6/6 Left zero filled
		Identifying number for a product or service		
		CHASSIS NUMBER		
LIN08	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number use Product/Service ID (234)	d in	
	(MACK			
	(VOLVO			
LIN09	234	Product/Service ID	X	AN 6/6 Left zero filled
		Identifying number for a product or service		Lett zero fined
		GSO or Rotation Number		
LIN10	235	Product/Service ID Qualifier	X	ID 2/2
(VOLVO	ONLY)	Code identifying the type/source of the descriptive number use	ed in	
		Product/Service ID (234)		
		AB Assembly		
LIN11	234	Product/Service ID	X	AN 4/4
(AOTAO	ONLY)	Identifying number for a product or service		
		ASSEMBLY POINT (VOLVO ONLY)		
LIN12	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number use Product/Service ID (234)	d in	
		BP Buyer's Part Number		
LIN13	234	Product/Service ID	X	AN 1/17
		Identifying number for a product or service		
		BUYER'S PART NUMBER		
LIN14	235	Product/Service ID Qualifier	X	ID 2/2
(AOTAO	ONLY)	Code identifying the type/source of the descriptive number use	d in	
		Product/Service ID (234)		
T TN11.5	224	Purchase Order Number	T 7	A NI 1/10
LIN15	234	Product/Service ID	X	AN 1/10
(AOTAO	ONLY)	Identifying number for a product or service		
LIN16	235	PUCHASE ORDER NUMBER (VOLVO ONLY) Product/Sorvice ID Qualifier	X	ID 2/2
LIMIO	233	Product/Service ID Qualifier Code identifying the type/source of the descriptive number use		
		Product/Service ID (234)	zu III	
		BO Buyers Color		
LIN17	234	Product/Service ID	X	AN 1/40
		Identifying number for a product or service		
		BUYER'S COLOR		
LIN18	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number use	d in	



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Product/Service ID (234)

PS Position

NOTE: Only used for parts that may need positioning clarification.

LIN19 234 Product/Service ID X AN 1/20

POSITION OF PART EXAMPLES:

LH

LH 30 GALLONS

LEFT SIDE

BS

BOTH SIDES

SECOND INTERMED AXLE

FRONT AXLE

LIN20 235 Product/Service ID Qualifier

X ID 2/2

(MACK ONLY) Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

A3 Locally Assigned Control Number

See format below.

LIN21 234 Product/Service ID

X AN 6/6

(MACK ONLY) Identifying number for a product or service

A3 QUALIFIER FORMAT FOR PAINT OFF-SET =

MDD01N

M = 1 CHARACTER MONTH (1-9,0,N & D)

DD = DAY OF MONTH

01 = LITERAL

N = NUMBER OF DAYS FOR OFFSET

LIN22 235 Product/Service ID Qualifier X ID 2/2

(Tire vendor only)

Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

<u>**TP**</u> Product Type Code

LIN23 234 Product/Service ID X AN 1/3

(Tire vendor only) Identifying number for a product or service

TIRE PRESSURE



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Segment: QTY Quantity

Position: 170

Loop: LIN Mandatory

Level:

Usage: Optional

Max Use:

Purpose: To specify quantity information

Syntax Notes: 1 At least one of QTY02 or QTY04 is required.

2 Only one of QTY02 or QTY04 may be present.

Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.

Comments:

Notes: **EXAMPLE**:

QTY*01*1*EA@

M	Ref. <u>Des.</u> QTY01	Data Element 673	Name Quantity Qualifier Code specifying the type of quantity	Attributes M ID 2/2
			01 Discrete Quantity	
	QTY02	380	Quantity	X R 1/15
			Numeric value of quantity	
	QTY03	C001	Composite Unit of Measure	
			To identify a composite unit of measure (See Figures App of use)	pendix for examples
M	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being express which a measurement has been taken <u>EA</u> <u>Each</u>	sed, or manner in



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Segment: CTT Transaction Totals

Position: 195

Loop:

Level:

Usage: Mandatory

Max Use:

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.

If either CTT05 or CTT06 is present, then the other is required.

Semantic Notes:

Comments:

This segment is intended to provide hash totals to validate transaction completeness and correctness.

Notes: **EXAMPLE**:

CTT*25@

M	Ref. <u>Des.</u> CTT01	Data Element 354	Name Number of Line Items Total number of line items in the transaction set	Attı M	ributes N0 1/6
	CTT02	347	Hash Total Sum of values of the specified data element. All values in the summed without regard to decimal points (explicit or im Truncation will occur on the left most digits if the sum is gramaximum size of the hash total of the data element. Example occurrence of value being hashed. 18 Second occurrence of hashed. 1.8 Third occurrence of value being hashed. 18.01 left value being hashed.	plicit) reater the:00 f value Fourth	or signs. han the 118 First being occurrence
			Truncation will occur on the left most digits if the sum is gramaximum size of the hash total of the data element. Examp occurrence of value being hashed18 Second occurrence of	reater the:00 f value	han the 18 Firs being occurre



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Segment: **SE** Transaction Set Trailer

Position: 200

Loop:

Level:

Usage: Mandatory

Max 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)

Syntax Notes:

Semantic Notes:

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

Notes: **EXAMPLE**:

SE*30*747682@

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