

VOLVO

866 Production Sequence

Functional Group ID=**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.

	<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>
M	010	ST	Transaction Set Header	M	1		
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.

VOLVO

Segment: **ST** Transaction Set Header

Position: 010

Loop:

Level:

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:

Notes:

EXAMPLE :
ST*866*1234562@

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	ST01	143 Transaction Set Identifier Code Code uniquely identifying a Transaction Set	M ID 3/3
		866 Production Sequence	
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: **BSS** Beginning Segment for Shipping Schedule/Production Sequence

Position: 020

Loop:

Level:

Usage: Mandatory

Max Use: 1

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).

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

Comments:

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

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</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	M N 6/6
			OEM assigned identification number RJ/Zero filled	
			PARMA (PARTner MAster identification)	
M	BSS03	373	Date	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 shipping or delivery time in a schedule or forecast	
			<u>JS</u> 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: 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:

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EXAMPLE :
N1*ST**92*4287@
N1*SF**92*23346@
```

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		SF Ship From	
		ST Ship To	
	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)	
		92 Assigned by Buyer or Buyer's Agent	
	N104	67 Identification Code	X AN 2/80
		Code identifying a party or other code	
		"SF" VOLVO OR MACK ASSIGNED SUPPLIER CODE.	
		"ST" VOLVO OR MACK ASSIGNED PLANT CODE.	



Segment: **DTM** Date/Time Reference

Position: 110

Loop: DTM Mandatory

Level:

Usage: Mandatory

Max Use: 1

Purpose: To specify pertinent dates and times

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

2 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**JS*H090310001*CF*007679*ON*053113***BP*20992162@
QTY*01*10@
LIN**JS*H090310002*CF*005038*ON*052761***BP*20992162@
QTY*01*10@
DTM*002*20090311@
LIN**JS*H090311001*CF*007919*ON*053328***BP*20357238@
QTY*01*8@
LIN**JS*H090311002*CF*007919*ON*053328***BP*20992162@
QTY*01*2@
DTM*002*20090312@
LIN**JS*H090312001*CF*010260*ON*053556***BP*20446232@
QTY*01*8@
LIN**JS*H090312002*CF*051267*ON*056880***BP*23488871@
QTY*01*3@
```

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
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 line-sequence order.

VOLVO

Segment: **LIN** Item Identification
Position: 150
Loop: LIN Mandatory
Level:
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
 1 If either LIN04 or LIN05 is present, then the other is required.
 2 If either LIN06 or LIN07 is present, then the other is required.
 3 If either LIN08 or LIN09 is present, then the other is required.
 4 If either LIN10 or LIN11 is present, then the other is required.
 5 If either LIN12 or LIN13 is present, then the other is required.
 6 If either LIN14 or LIN15 is present, then the other is required.
 7 If either LIN16 or LIN17 is present, then the other is required.
 8 If either LIN18 or LIN19 is present, then the other is required.
 9 If either LIN20 or LIN21 is present, then the other is required.
 10 If either LIN22 or LIN23 is present, then the other is required.
 11 If either LIN24 or LIN25 is present, then the other is required.
 12 If either LIN26 or LIN27 is present, then the other is required.
 13 If either LIN28 or LIN29 is present, then the other is required.
 14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:
 1 LIN01 is the line item identification
Comments:
 1 See the Data Dictionary for a complete list of IDs.
 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example:
 Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

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EXAMPLE:                MACK:
LIN**JS*W090107004*CF*229934*ON*056880*AB*4210*BP
(MACK) *3180936*PO*M41139-567*BO*MACK RED 1109*PS*LEFT
SIDE*A3*D26014*TP*35@

VOLVO:
(VOLVO) LIN**JS*V090603035*CF*289151*ON*006138*AB*4318*BP
*20511826*PO*M284408***PS*RH 15 GALLONS
  
```

Data Element Summary

Ref.	Des.	Data Element	Name	Attributes
M	LIN02	235	Product/Service ID Qualifier	M ID 2/2
Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
M	LIN03	234	<u>JS</u> Job Sequence Number Product/Service ID	M AN 10/10
Identifying number for a product or service				
FORMAT IS: XYYMDDNNN				
X = PLANT-LINE INDICATOR CODE				
YYMDD = YEAR, MONTH AND DAY				
NNN = LINE SEQUENCE NUMBER				
LIN04		235	Product/Service ID Qualifier	X ID 2/2
Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
LIN05		234	<u>CF</u> Chassis Serial Number Product/Service ID	X AN 6/6 Left zero filled
Identifying number for a product or service				
CHASSIS NUMBER				



LIN06	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		(MACK) ON		
		(VOLVO) General Service Order (GSO)		
		Rotation Number		
LIN07	234	Product/Service ID	X	AN 6/6 Left zero filled
		Identifying number for a product or service		
		GSO or Rotation Number		
LIN08	235	Product/Service ID Qualifier	X	ID 2/2
(VOLVO ONLY)		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		AB		
		Assembly		
LIN09	234	Product/Service ID	X	AN 4/4
(VOLVO ONLY)		Identifying number for a product or service		
		ASSEMBLY POINT (VOLVO ONLY)		
LIN10	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		BP		
		Buyer's Part Number		
LIN11	234	Product/Service ID	X	AN 1/17
		Identifying number for a product or service		
		BUYER ' S PART NUMBER		
LIN12	235	Product/Service ID Qualifier	X	ID 2/2
(VOLVO ONLY)		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		PO		
		Purchase Order Number		
LIN13	234	Product/Service ID	X	AN 1/10
(VOLVO ONLY)		Identifying number for a product or service		
		PURCHASE ORDER NUMBER (VOLVO ONLY)		
LIN14	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		BO		
		Buyers Color		
LIN15	234	Product/Service ID	X	AN 1/40
		Identifying number for a product or service		
		BUYER ' S COLOR		
LIN16	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		PS		
		Position		
		NOTE: Only used for parts that may need positioning clarification.		
LIN17	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		

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LIN18 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.

LIN19 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,O,N & D)
DD = DAY OF MONTH
01 = LITERAL
N = NUMBER OF DAYS FOR OFFSET

LIN20 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)

TP Product Type Code

LIN21 234 **Product/Service ID** X AN 1/3
(Tire vendor only) Identifying number for a product or service

TIRE PRESSURE



Segment: **QTY** Quantity

Position: 170

Loop: LIN Mandatory

Level:

Usage: Optional

Max Use: 1

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@
```

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	QTY01	673 Quantity Qualifier Code specifying the type of quantity	M ID 2/2
		<u>01</u> Discrete Quantity	
	QTY02	380 Quantity Numeric value of quantity	X R 1/15
	QTY03	C001 Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	
M	C00101	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
		<u>EA</u> Each	



Segment: CTT Transaction Totals

Position: 195

Loop:

Level:

Usage: Mandatory

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.

Notes: **EXAMPLE :**

CTT*25@

Data Element Summary

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

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Segment: **SE** Transaction Set Trailer

Position: 200

Loop:

Level:

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.

Notes:

EXAMPLE:

SE*30*747682@

Data Element Summary

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