Benteler Automotive

Electronic Data Interchange Specifications

Transaction 862

Version 3.1

March 19, 2009

Changes from Version 3.0 – 3.1

1. Added element 12 and 13 to the LIN segment

2. Updated the example

3. Removed Contact and VAN information

4. Add Benteler Mexico Plant codes

Changes from Version 2.1 - 3.0

1. Added SHP Loop

2. Added the SHP Segment - Page 15

3. Added the REF Segment - Page 16

4. Added the SHP Loop to Page 2

Benteler Automotive
862 Shipping Schedule

Functional Group ID=SS

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Shipping Schedule Transaction Set (862) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by a customer to convey precise shipping schedule requirements to a supplier, and is intended to supplement the planning schedule transaction set (830). The shipping schedule transaction set will supersede certain shipping and delivery information transmitted in a previous planning schedule transaction, but it does not replace the 830 transaction set. The shipping schedule transaction set shall not be used to authorize labor, materials or other resources. The use of this transaction set will facilitate the practice of Just-In-Time (JIT) manufacturing by providing the customer with a mechanism to issue precise shipping schedule requirements on a more frequent basis than with the issuance of a planning schedule transaction, e.g., daily shipping schedules versus weekly planning schedules. The shipping schedule transaction also provides the ability for a customer location to issue shipping requirements independe of other customer locations when planning schedule transactions are issued by a consolidated scheduling organization.

Heading:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
010	ST	Transaction Set Header	M	1		
020	BSS	Beginning Segment for Shipping Schedule/Production Sequence	M	1		
		LOOP ID - N1			200	
050	N1	Name	M	1		
070	N3	Address Information	O	2		
080	N4	Geographic Location	O	1		

Detail:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
		LOOP ID - LIN			10000	
010	LIN	Item Identification	M	1		
020	UIT	Unit Detail	M	1		
		LOOP ID - FST			100	
080	FST	Forecast Schedule	M	1		
		LOOP ID - SHP			25	
470	SHP	Shipped/Received Information	M	1		
480	REF	Reference Identification	O	5		

Summary:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
010	CTT	Transaction Totals	M	1		n1
020	SE	Transaction Set Trailer	M	1		

Segment: **ISA** **Interchange Control Header**
Position: 005
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments
Syntax Notes:
Semantic Notes:
Example: **ISA~00~ ~00~ ~01~112836044 ~01~115310336 ~021105~0832~U~ 00400~000000168~0~P~<***

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ISA01	**I01**	**Authorization Information Qualifier** Use "00"	**M ID 2/2**
ISA02	**I02**	**Authorization Information** Use Ten Spaces	**M AN 10/10**
ISA03	**I03**	**Security Information Qualifier** Use "00"	**M ID 2/2**
ISA04	**I04**	**Security Information** Use Ten Spaces	**M AN 10/10**
ISA05	**I05**	**Interchange ID Qualifier** Use "01" or other applicable codes	**M ID 2/2**
ISA06	**I06**	**Interchange Sender ID** DUNS Number. Left Justify, Space Fill	**M AN 15/15**
ISA07	**I05**	**Interchange ID Qualifier** Use "01" or other applicable codes	**M ID 2/2**
ISA08	**I07**	**Interchange Receiver ID** DUNS Number. Left Justify, Space Fill	**M AN 15/15**
ISA09	**I08**	**Interchange Date** Date of Creation	**M DT 6/6**
ISA10	**I09**	**Interchange Time** Time Of Creation	**M TM 4/4**
ISA11	**I10**	**Interchange Control Standards Identifier** Use "U" for U.S.	**M ID 1/1**
ISA12	**I11**	**Interchange Control Version Number** Use "00401"	**M ID 5/5**
ISA13	**I12**	**Interchange Control Number** A control number assigned by the interchange sender	**M N0 9/9**
ISA14	**I13**	**Acknowledgment Requested** Use "0" for no Ack. Req., Use "1" for Ack. Req	**M ID 1/1**
ISA15	**I14**	**Usage Indicator** Use "T" For Test or "P" For Production Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 1/1**
ISA16	**I15**	**Component Element Separator** Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	**M AN 1/1**

Segment: **GS** **Functional Group Header**
Position: 007
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a functional group and to provide control information
Syntax Notes:
Semantic Notes:
1 GS04 is the group date.
2 GS05 is the group time.
3 The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.
Example: **GS~SS~112836044~115310336~20021105~0832~159~X~004010***

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GS01	**479**	**Functional Identifier Code** Use "SS" for Shipping Schedule	**M ID 2/2**
GS02	**142**	**Application Sender's Code** Use Duns Number	**M AN 2/15**
GS03	**124**	**Application Receiver's Code** Use Duns Number	**M AN 2/15**
GS04	**373**	**Date** Creation Date	**M DT 8/8**
GS05	**337**	**Time** Creation Time	**M TM 4/8**
GS06	**28**	**Group Control Number** Start with 1 and increment by 1 for each subsequent GS Segment	**M N0 1/9**
GS07	**455**	**Responsible Agency Code** Use "X"	**M ID 1/2**
GS08	**480**	**Version / Release / Industry Identifier Code** Use "004010"	**M AN 6/6**

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
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:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ST01	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	**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 a transaction set	**M AN 4/9**

Segment: **BSS** **Beginning Segment for Shipping Schedule/Production Sequence**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes:
Semantic Notes:
Example: **BSS~00~0000000000585661~20020913~DL~20020913~20020913~~ 0000000000585661~~5500000807~A***

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
BSS01	**353**	**Transaction Set Purpose Code** Use "00" For Original	**M ID 2/2**
BSS02	**127**	**Reference Identification** Reference information	**O AN 1/30**
BSS03	**373**	**Date** Date expressed as CCYYMMDD	**M DT 8/8**
BSS04	**675**	**Schedule Type Qualifier** Benteler uses Ship Dates Refer to FST04	**M ID 2/2**
BSS05	**373**	**Date** Date expressed as CCYYMMDD	**O DT 8/8**
BSS06	**373**	**Date** Date expressed as CCYYMMDD	**O DT 8/8**
BSS08	**127**	**Reference Identification** Reference information	**O AN 1/30**
BSS10	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser	**M AN 10/10**
BSS11	**676**	**Schedule Quantity Qualifier** Use "A" for Actual Discrete Quantities	**M ID 1/1**

Segment: **N1** **Name**
Position: 050
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify the Ship To Party
Syntax Notes:
Example: **N1~ST~Windsor~98~0470***

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N101	**98**	**Entity Identifier Code** Use "ST" (Ship To)	**M ID 2/3**
N102	**93**	**Name** Name of Benteler plant to which material is to be shipped	**M AN 1/60**
N103	**66**	**Identification Code Qualifier** Use "98" (Benteler Plant Code)	**M ID 2/2**
N104	**67**	**Identification Code** The Benteler Plant Code, Defined as Follows 0440 - Corporate 0442 - Hall Street Plant 0443 - Hagen Drive Plant 0444 - Clay Avenue Plant 0445 - Kalamazoo Plant 0446 - Goshen Plant 0447 - Fort Wayne Operations 0449 - Opelika Plant 0470 - Windsor Plant 0471 - Brampton Plant 0585 - Hermosillo 0586 - Puebla 0587 - Saltillo	**M AN 4/4**

1st Occurrence of the N1 Loop

Segment: **N3** **Address Information**
Position: 070
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the location of the Benteler Plant
Syntax Notes:
Semantic Notes:
Example: **N3~3721 Kalamazoo***

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N301	**166**	**Address Information** Address information	**M AN 1/55**
N302	**166**	**Address Information** Address information	**O AN 1/55**

Segment: **N4** **Geographic Location**
Position: 080
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes:
Semantic Notes:
Example: **N4~Windor~ON~49548~US***

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N401	**19**	**City Name** City name of Benteler ship-to plant	**M AN 2/30**
N402	**156**	**State or Province Code** State code for Benteler ship-to plant	**M ID 2/2**
N403	**116**	**Postal Code** Postal code of Benteler ship-to plant	**M ID 3/15**
N404	**26**	**Country Code** Country code of Benteler ship-to plant	**M ID 2/3**

Segment: **N1** **Name**
Position: 050
Loop: N1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
Semantic Notes:
Example: **N1~SU~~16~256873100***

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N101	**98**	**Entity Identifier Code** Use "SU" (Supplier)	**M ID 2/3**
N103	**66**	**Identification Code Qualifier** Use "16" (DUNS Number)	**M ID 2/2**
N104	**67**	**Identification Code** The Supplier DUNS number.	**M AN 2/80**

2nd Occurrence of the N1 Loop

Segment: **LIN** **Item Identification**
Position: 010
Loop: LIN Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
Semantic Notes:
Example: **LIN~~BP~28041-01~EC~---~PL~10~PO~5500000807~RN~48~PD~60758-AD GM-15874928***

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
LIN02	**235**	**Product/Service ID Qualifier** Use "BP" (Buyer's Part Number)	**M ID 2/2**
LIN03	**234**	**Product/Service ID** Benteler Material Number	**M AN 1/18**
LIN04	**235**	**Product/Service ID Qualifier** Use "EC" (Engineering Change Level)	**M ID 2/2**
LIN05	**234**	**Product/Service ID** Benteler Engineering Change Level	**M AN 1/2**
LIN06	**235**	**Product/Service ID Qualifier** Use "PL" (Purchase Order Line Number)	**M ID 2/2**
LIN07	**234**	**Product/Service ID** Purchase Order Line Number ***(Must be returned on 856)***	**M AN 1/5**
LIN08	**235**	**Product/Service ID Qualifier** Use "PO" (Purchase Order Number)	**M ID 2/2**
LIN09	**234**	**Product/Service ID** Number used to uniquely identify the Benteler Purchasing Document	**M AN 1/10**
LIN10	**235**	**Product/Service ID Qualifier** Use "RN" (Release Number)	**M ID 2/2**
LIN11	**234**	**Product/Service ID** Release Number of the Purchasing Document	**M ID 1/9**
LIN12	**235**	**Product/Service ID Qualifier** Use 'PD' Part Description	**O ID 2/2**
LIN13	**234**	**Product/Service ID** Additional Part description	**O AN 1/22**

Segment: **UIT** **Unit Detail**
Position: 020
Loop: LIN Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify item unit data
Syntax Notes:
Semantic Notes:
Example: **UIT~PC***

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
UIT01	**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**

Segment: **FST** **Forecast Schedule**
Position: 080
Loop: FST Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify the forecasted dates and quantities
Syntax Notes:
Semantic Notes:
Example: **FST~10~C~D~20020924~~002~1830***

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
FST01	**380**	**Quantity** Numeric value of quantity	**M**	**R 1/15**
FST02	**680**	**Forecast Qualifier** Code specifying the sender's confidence level of the forecast data or an action associated with a forecast C - Firm D - Planning	**M**	**ID 1/1**
FST03	**681**	**Forecast Timing Qualifier** Code specifying interval grouping of the forecast D - Discrete W - Weekly Bucket	**M**	**ID 1/1**
FST04	**373**	**Date** Date expressed as CCYYMMDD (Ship Date)	**M**	**DT 8/8**
FST06	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time	**O**	**ID 3/3**
FST07	**337**	**Time** Time expressed as HHMM (Ship Time)	**O**	**TM 4/8**

Segment: **SHP** **Shipped/Received Information**
Position: 470
Loop: SHP Optional
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify shipment and/or receipt information
Comments: **1** The SHP segment is used to communicate shipment, delivery, or receipt information and may include discrete or cumulative quantities, dates, and times.
Example: **SHP~01~5400~050~20021104***

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
SHP01	**673**	**Quantity Qualifier** Code specifying the type of quantity 01 - Discrete Quantity 02 - Cumulative Quantity	**M ID 2/2**
SHP02	**380**	**Quantity** Numeric value of quantity	**M R 1/15**
SHP03	**374**	**Date/Time Qualifier** Use " 050" Receipt	**M ID 3/3**
SHP04	**373**	**Date** Date Received/Cumulative Start Date Format: CCYYMMDD	**M DT 8/8**

Segment: **REF** **Reference Identification**
Position: 480
Loop: SHP Optional
Level: Detail
Usage: Mandatory
Max Use: 5
Purpose: To specify identifying information
Comments:
Example: **REF~SI~V7054944***

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
REF01	**128**	**Reference Identification Qualifier** Use "SI" For Shipper Number	**M ID 2/3**
REF02	**127**	**Reference Identification** Shipper Number	**M AN 1/30**

Segment: **CTT** **Transaction Totals**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes:
Semantic Notes:
Example: **CTT~4***

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
CTT01	**354**	**Number of Line Items** Total number of LIN segments	**M N0 1/6**

Segment: **SE** **Transaction Set Trailer**
Position: 020
Loop:
Level: Summary
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.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
SE01	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**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 a transaction set	**M AN 4/9**

Segment: **GE** **Functional Group Trailer**
Position: 030
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To indicate the end of a functional group and to provide control information
Syntax Notes:
Semantic Notes: **1** The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.
Example: **GE~1~159***

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GE01	**97**	**Number of Transaction Sets Included** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	**M N0 1/6**
GE02	**28**	**Group Control Number** Assigned number originated and maintained by the sender	**M N0 1/9**

Segment: **IEA** **Interchange Control Trailer**
Position: 040
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments
Syntax Notes:
Semantic Notes:
Example: **IEA~1~000000168***

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
IEA01	**I16**	**Number of Included Functional Groups** A count of the number of functional groups included in an interchange	**M N0 1/5**
IEA02	**I12**	**Interchange Control Number** A control number assigned by the interchange sender	**M N0 9/9**

Sample 862 EDI

ISA~00~ ~00~ ~01~112836044 ~01~115310336 ~021105~0832~U~00400~000000168~0~P~<*
GS~SS~112836044~115310336~20021105~0832~159~X~004010*
ST~862~0001*
BSS~00~0000000000585661~20020913~DL~20020913~20020913~~0000000000585661~~5500000807~A*
N1~ST~Windsor~98~0470*
N3~3721 kalamazoo*
N4~Windor~ON~49548~US*
N1~SU~~16~256873100*
LIN~~BP~28041-01~EC~---~PL~10~PO~5500000807~RN~48~PD~60758-AD GM-15874928*
UIT~PC*
FST~10~C~D~20020924~~002~1830*
FST~10~C~D~20020925~~002~1800*
FST~10~C~D~20020926~~002~1830*
FST~10~C~D~20020927~~002~1830*
SHP~01~5400~050~20021104*
REF~SI~V7054944*
SHP~02~631800~050~20021104*
LIN~~BP~28041-02~EC~ND~PL~20~PO~5500000807~RN~48~PD~60758-AD GM-15874929*
UIT~PC*
FST~10~C~D~20020924~~002~1830*
FST~10~C~D~20020925~~002~1800*
FST~10~C~D~20020926~~002~1830*
FST~10~C~D~20020927~~002~1830*
SHP~01~5400~050~20021104*
REF~SI~V7054944*
SHP~02~631800~050~20021104*
LIN~~BP~28042-01~EC~---~PL~30~PO~5500000807~RN~49~PD~60758-AD GM-15874930*
UIT~PC*
FST~10~C~D~20020924~~002~1830*
FST~10~C~D~20020925~~002~1800*
FST~10~C~D~20020926~~002~1830*
FST~10~C~D~20020927~~002~1830*
SHP~01~5400~050~20021104*
REF~SI~V7054944*
SHP~02~631800~050~20021104*
LIN~~BP~28042-02~EC~---~PL~40~PO~5500000807~RN~49*
UIT~PC*
FST~10~C~D~20020924~~002~1830*
FST~10~C~D~20020925~~002~1800*
FST~10~C~D~20020926~~002~1830*
FST~10~C~D~20020927~~002~1830*
SHP~01~5400~050~20021104*
REF~SI~V7054944*
SHP~02~631800~050~20021104*
CTT~4*
SE~44~0001*
GE~1~159*
IEA~1~000000168*