

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 independent of other customer locations when planning schedule transactions are issued by a consolidated scheduling organization.

Heading:

<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>
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:

<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>
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:

<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>
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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
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~00~000000000585661~20020913~DL~20020913~20020913~~
000000000585661~~5500000807~A*

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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

<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u> <u>Name</u>	
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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
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

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
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 <i>(Must be returned on 856)</i>	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 Release Number of the Purchasing Document	O ID 2/2
LIN13	234	Product/Service ID Use 'PD' 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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
UIT01	355	Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	

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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
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

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
SE01	96	Number of Included Segments	M N0 1/10
		Total number of segments included in a transaction set including ST and SE segments	
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	

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

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

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

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

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~00~000000000585661~20020913~DL~20020913~20020913~~000000000585661~~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*