Benteler Automotive

Electronic Data Interchange Specifications

Transaction 856

Version 2.1
Feb 1, 2003

BENTELER AUTOMOTIVE
856 Ship Notice/Manifest

Functional Group ID=SH

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Heading:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
010	ST	Transaction Set Header	M	1		
020	BSN	Beginning Segment for Ship Notice	M	1		
040	DTM	Date/Time Reference	M	1		

Detail:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
		LOOP ID - HL (SHIPMENT LEVEL)			1	
010	HL	Hierarchical Level	M	1		
110	TD1	Carrier Details (Quantity and Weight)	M	1		
120	TD5	Carrier Details (Routing Sequence/Transit Time)	M	1		
130	TD3	Carrier Details (Equipment)	M	1		
		LOOP ID - N1			2	
230	N1	Name	M	1		
		LOOP ID - HL (ITEM LEVEL)			200000	
010	HL	Hierarchical Level	M	1		
020	LIN	Item Identification	M	1		
030	SN1	Item Detail (Shipment)	M	1		

Summary:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
010	CTT	Transaction Totals	M	1		
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~SH~112836044~115310336~20021105~0832~159~X~004010**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
GS01	**479**	**Functional Identifier Code** Use "SH" for Advanced Ship Notice	**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).
Example: **ST~856~0001**

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: **BSN** **Beginning Segment for Ship Notice**
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: **BSN~00~123456789~20021113~1245**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
BSN01	**353**	**Transaction Set Purpose Code** Use "00" (Original)	**M**	**ID 2/2**
BSN02	**396**	**Shipment Identification** A unique control number assigned by the original shipper to identify a specific shipment. Must not repeat within 1 year.	**M**	**AN 1/9**
BSN03	**373**	**Date** ASN Creation Date. Format: CCYYMMDD	**M**	**DT 8/8**
BSN04	**337**	**Time** ASN Creation Time. Format: HHMM	**M**	**TM 4/4**

Segment: **DTM** **Date/Time Reference**
Position: 040
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
Semantic Notes:
Example: **DTM~011~20021113~1246**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
DTM01	**374**	**Date/Time Qualifier** Use '011' (Shipped Date)	**M ID 3/3**
DTM02	**373**	**Date** Shipment Date. Format: CCYYMMDD	**M DT 8/8**
DTM03	**337**	**Time** Shipment Time. Format: HHMM	**M TM 4/4**

Segment: **HL** **Hierarchical Level**
Position: 010
Loop: HL Mandatory
Level: Shipment
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
Example: **HL~1~~S**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
HL01	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M AN 1/12**
HL03	**735**	**Hierarchical Level Code** Use S - Shipment Level	**M ID 1/1**

Segment: **TD1** **Carrier Details (Quantity and Weight)**
Position: 110
Loop: HL Mandatory
Level: Shipment
Usage: Mandatory
Max Use: 1
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:

Semantic Notes:
Example: **TD1~~150**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
TD102	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity	**M N0 1/7**

Segment: **TD5** **Carrier Details (Routing Sequence/Transit Time)**
Position: 120
Loop: HL Mandatory
Level: Shipment
Usage: Mandatory
Max Use: 1
Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:
Example: **TD5~B~2~VEND~LT**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
TD501	**133**	**Routing Sequence Code** Use "B" (Origin/Delivery Carrier (Any Mode))	**M**	**ID 1/2**
TD502	**66**	**Identification Code Qualifier** Use "2" (SCAC Code Qualifier)	**M**	**ID 1/2**
TD503	**67**	**Identification Code** Code identifying a party or other code	**M**	**AN 2/80**
TD504	**91**	**Transportation Method/Type Code** Code specifying the method or type of transportation for the shipment Any valid X12 code value except "ZZ" (Mutually Defined)	**M**	**ID 1/2**

Segment: **TD3** **Carrier Details (Equipment)**
Position: 130
Loop: HL Mandatory
Level: Shipment
Usage: Mandatory
Max Use: 1
Purpose: To specify transportation details relating to the equipment used by the carrier
Syntax Notes:
Semantic Notes:
Example: **TD3~TE~~1234567890**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
TD301	**40**	**Equipment Description Code** Code identifying type of equipment used for shipment Any valid X12 code value except "ZZ" (Mutually Defined)	**M**	**ID 2/2**
TD303	**207**	**Equipment Number** Trailer Number`	**M**	**AN 1/10**

Segment: **N1** **Name**
Position: 220
Loop: N1 Mandatory
Level: Shipment
Usage: Mandatory
Max Use: 1
Purpose: To identify the ship to party
Syntax Notes:
Semantic Notes:
Comments: **1** Ship To N1 Segment MUST be the first N1 segment in the 856.
Example: **N1~ST~Windsor Plant~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	**M AN 4/4**

Comment: Should return what was sent in 862 N1 Ship To Information

1st Occurrence of te N1 Loop

Segment: **N1** **Name**
Position: 220
Loop: N1 Mandatory
Level: Shipment
Usage: Mandatory
Max Use: 1
Purpose: To identify supplier/ship from party.
Syntax Notes:
Semantic Notes:
Example: **N1~SU~~16~DUNS Number**

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 2/17**

Comment: Should return what was sent in 862 N1 Supplier Information

2nd Occurrence of the N1 Loop

Segment: **HL** **Hierarchical Level**
Position: 010
Loop: HL Mandatory
Level: Item
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
Example: **HL~2~1~I**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
HL01	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M**	**AN 1/12**
HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	**M**	**AN 1/12**
HL03	**735**	**Hierarchical Level Code** Use "I" (Item Level)	**M**	**ID 1/2**

Segment: **LIN** **Item Identification**
Position: 020
Loop: HL Mandatory
Level: Item
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
Semantic Notes:
Example: **LIN~~BP~20939~EC~A~PL~00070~PO~5500000999~RN~12**

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's Material Number	**M**	**AN 1/18**
LIN04	**235**	**Product/Service ID Qualifier** Use "EC"	**M**	**ID 2/2**
LIN05	**234**	**Product/Service ID** Engineering Change Level	**M**	**AN 1/2**
LIN06	**235**	**Product/Service ID Qualifier** Use "PL" (P.O. Line Item Number)	**M**	**ID 2/2**
LIN07	**234**	**Product/Service ID** Purchase order line number	**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 Purchasing Document.	**M**	**AN 1/10**
LIN10	**235**	**Product/Service ID Qualifier** Use "RN"	**M**	**ID 2/2**
LIN11	**234**	**Product/Service ID** Release Number Of The Purchasing Document.	**M**	**AN 1/9**

Comment: Should return what was sent in 862 LIN Segment

Segment: **SN1** **Item Detail (Shipment)**
Position: 030
Loop: HL Mandatory
Level: Item
Usage: Mandatory
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes:
Semantic Notes:
Example: **SN1~~12000~EA**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
SN102	**382**	**Number of Units Shipped** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	**M R 1/10**
SN103	**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 **This Must Be The Same Unit Of Measure Provided On The Corresponding Releasing Document.**	**M ID 2/2**

Comment: **For the SN103 You Should return the value sent in the 862 UIT Segment**

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~1**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
CTT01	**354**	**Number of Line Items** Total number of line items in the transaction set. (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:
Example: **SE~14~0001**

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**

EXAMPLE 856

ISA~00~ ~00~ ~01~112836044 ~01~115310336 ~021105~0832~U~00400~000000168~0~P~<*
GS~SH~112836044~115310336~20021105~0832~159~X~004010*
ST~856~0001
BSN~00~123456789~20021113~1245
DTM~011~20021113~1246
HL~1~~S
TD1~~150
TD5~B~2~VEND~LT
TD3~TE~~1234567890
N1~ST~Windsor Plant~98~0470
N1~SU~~16~DUNS Number
HL~2~1~I
LIN~~BP~20939-01~EC~A~PL~00070~PO~5500000999~RN~12
SN1~~12000~EA
HL~3~1~I
LIN~~BP~20939-02~EC~A~PL~00080~PO~5500000999~RN~12
SN1~~12000~EA
CTT~2
SE~17~0001
GE~1~159
IEA~1~000000168

CONTACT INFORMATION

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EDI VAN INFORMATION

Transaction Set X.12	Version Number	Transmitted From	Transmitted To	Frequency	Advantis Account and Userid	Benteler ISA/GS DUNS Number
830 – Release	004010	Benteler	Supplier	Weekly		112836044
862 – Ship	004010	Benteler	Supplier	As Needed		112836044
997 - Functional Acknowledgement	004010	Supplier	Benteler	Upon receipt of 830/862	BENT BENT004	112836044
856 – Advance Ship Notice	004010	Supplier	Benteler	Upon Truck Departure	BENT BENT004	112836044
997 Functional Acknowledgement	004010	Benteler	Supplier	Upon receipt of ASN		112836044