



Benteler
**Electronic Data Interchange
Specifications
Transaction 856**



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

<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	BSN	Beginning Segment for Ship Notice	M	1		
040	DTM	Date/time reference	M	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 - 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:

<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		
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
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 GS06 in this header must be identical to the same data element in the associated functional group trailer
Example: **GS~SH~112836044~115310336~20021105~0832~159~X~004010**

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
GS01	479	Functional Identifier Code Use "PS" for Planning 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
Comments:
Example: ST~856~0001

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</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: **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

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

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

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

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
TD102	80	Lading Quantity Number of units (pieces) of the lading commodity	M NO 1/7



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

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>	
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 Code Qualifier)	M	ID 1/2
TD503	67	Identification Code Code identifying a party or the 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 values 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

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
TD301	40	Equipment Description Code Code identifying type of equipment used for shipment Any valid X12 code values 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:
Comment: 1 Ship to N1 Segment MUST be the first N1 segment in the 856
Example: N1~ST~Windsor Plant~98~0470

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
N101	98	Entity Identifier Code Use "ST" For Ship To	M ID 2/3
N102	93	Name Free-form name	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, Dined 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 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 the N1 Loop



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

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
N101	98	Entity Identifier Code Use "SU" (Supplier)	M ID 2/3
N103	66	Identification Code Qualifier	M ID 2/2
N104	67	Identification Code The supplier DUNS number	M AN 2/17

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~2~1~1

Data Element Summary

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

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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
SN102	382	Number of Units Shipped Numeric value of units shipped in manufacture'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 Measurement 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

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
CTT01	354	Number of Line Items Total number of line items in the transaction set. (Total number of LIN segments)	M NO 1/6



Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 5
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)
Example: SE~14~0001

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M NO 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

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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 NO 1/6
GE02	28	Group Control Number Assigned number originated and maintained by the sender	M NO 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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>	
<u>Des.</u>	<u>Element</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	A control number assigned by the interchange sender	M	N0 9/9



Sample 856 EDI

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