



SPECIFICATION AND BUSINESS
PROCESS DOCUMENT

Gentex Corporation

Inbound Advanced Ship Notice
(EDI 856/DESADV)

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31-May-12	1.3	Updated Comments for MEA04 (UOM) to reference 850 spec, corrected comments for N101 segment - SF should be SU for Supplier Ship From
8-May-14	1.4	Updated Coments for DTM01 - Ship Date ('011' qualifier) is required

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Introduction

The purpose of this document is to provide the details on policies and procedures for Advance Ship Notice (ASN) 856 transaction to satisfy Gentex's requirements.

Any questions or concerns regarding EDI 856/ASN's at Gentex can be addressed directly by contacting us at edi@gentex.com.

Business Rules and Requirements

- Gentex requires the EDI 856 Advance Ship Notification (ASN) transmission be sent immediately after the release of the shipment to the carrier.
- The ASN Number and the Supplier Packing Slip Number should be identical and Supplier should send only one ASN per packing slip.
- Suppliers should ensure that the Supplier Site information (stored in Gentex internal System) communicated via the 850 document is part of the returned ASN as per the specs detailed in this document.
- Suppliers must be ASN label compliant before they begin transmitting the 856 documents – label compliance will be confirmed by the EBS Procurement Functional Lead or Purchasing Super User at Gentex.
- Suppliers can transmit ASN at anytime including holidays and weekends unless otherwise communicated by Gentex.
- If there is a disruption of the normal EDI ASN service from vendors, they are required to communicate it to the Gentex EDI contacts listed in the previous section of this document .
- The same Shipment Number (ASN/Packing Slip Number) cannot be transmitted more than once within a year.
- Trading Partners who send ASN's in error, due to a change in shipment or other information, must have approval before retransmitting. An email (or telephone call) must be sent to the above mentioned Gentex EDI Contacts. This communication should include ASN number, Purchase Order number, Purchase Order Line number, Waybill number (if applicable), Bill of Lading number (if applicable), and details of the incorrect information on the ASN already sent. Gentex will review this and upon approval will cancel the previous ASN in its EBS system. Once this completed, Gentex will confirm back to the supplier if the updated ASN is to be re-transmitted or not.
- If an ASN needs to be retransmitted, as communicated by Gentex, the supplier can retransmit the ASN with the corrections made.
- If the material has already arrived at Gentex and has been received into Gentex's EBS system prior to ASN being received from the supplier, the ASN will error out when transmitted as the shipment is no longer open in Gentex's system. It is imperative the ASN is received and processed by Gentex prior to material physically arriving on our dock.

Processing Standard

For inbound ASNI (856) Documents Gentex uses ANSI X12 Version 004010.

Processing Times

ASN's must be transmitted within **15 minutes** for *short leadtime* suppliers*, and within **30 minutes** for *all other suppliers* upon release of the shipment to the carrier.

**Short leadtime suppliers are suppliers with a transit time to Gentex of less than 2 hours*

ASN's should not be transmitted prior to actual shipment to allow for possible corrections to actual shipments.

Gentex will collect inbound ASN files and Process them every **10 Minutes**.

Gentex will send out 997 acknowledgements immediately upon collection of ASN files from the inbox.

ASN files received and processed by Gentran (in the process of changing to Radley) at Gentex will **immediately** be processed by Gentex Oracle Ebusiness Suite Applications (EBS).

824 or Application Advice Files will be sent **within 15 minutes of any file errors detected in the EBS transaction system**.

Accuracy and Reliability of Data

Suppliers should take all care to ensure that the data transmitted is accurate. Gentex uses the ASN information in its planning process and wrong information on an ASN will affect planning processes at Gentex.

Shipping Label

Refer to the Gentex label compliance requirements (as detailed in the *Packaging, Labeling, and Shipping Manual* under the Supplier Information section of our website - www.gentex.com) for details on label requirements. ASN suppliers must be able to comply with the ASN label requirements. Sample labels will be evaluated and approved by Gentex before suppliers can begin transmitting ASN data.

EDI levels and Segments

Note: Please ensure you are referring to the latest version of this Guide from our supplier website <http://www.gentex.com> > Corporate > Supplier Information.

This document provides the standard format and established data contents of the ship notice/manifest transaction set (856). An 856 comprises of a shipment's contents and information relating to shipment and items contained therein. It enables the sender to describe a shipment's contents and configuration in varying levels of detail, while providing an ordered flexibility of data conveyed.

All information in this document is subject to change at the discretion of Gentex Corporation. The users of this document are advised to verify that they have the latest copy of this document from the Gentex Supplier website (as indicated above).

Seg. ID	Name	Req Des.	MaxUse	Loop Repeat
Header Level				
ST	Transaction Set Header	M	1	
BSN	Beginning Segment for Ship Notice	M	1	
DTM	Date/Time Reference	M	2	
Detail Shipment Level				
HL	Hierarchical Level	M	1	
MEA	Measurements	N	2	
REF	Reference Numbers	M	5	
N1	Name	M	2	N1/2
Detail Item Level				
HL	Hierarchical Level	M	1	HL/200000
LIN	Item Identification	M	2	
SN1	Item Detail (Shipment)	M	1	
PRF	Purchase Order Reference	M	1	
Summary Segments				
CTT	Transaction Totals	M	1	
SE	Transaction Set Trailer	M	1	

GLOSSARY:

Abbreviation	Meaning	Comment
C	Conditional	The presence of this is dependent on the presence of another item
M	Mandatory	This data segment should be included in all transactions. If this data segment is missing, a 997 will be sent indicating the document as rejected. Note some data segments may be marked as mandatory in the loop of data segments that are optional. If you choose to provide these optional segments, the mandatory segments associated with them must also be provided.
N	Not Used	This field is not mapped at Gentex currently. We do not have the capability to process this data currently and will not look at this data at this point in time. Suppliers can, however, send this data - it will just be ignored.
O	Optional	This data is completely optional. If you send it we can process and look at this data.

Segments/Elements Usage

Segment: **ST** Transaction set Header
Level: Header
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set.
Syntax:
Example: ST*856*0001

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	ST01	143	Transaction Set ID	M ID 3/3	Indicate as '856'
Required	ST02	329	Transaction set Control Num	M AN 4/9	This is a unique number assigned to each transaction set within a functional group

Segment: **BSN** Beginning Segment for Ship Notice
Level: Header
Loop: N/A
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates and other basic data relating to the transaction set.
Syntax: If BSN07 is present, BSN06 is required.
Comment: 1) BSN03 is the date the shipment transaction set is created.
 2) BSN04 is the time the shipment transaction set is created.

Note **Currently we do not permit cancellation of an ASN via EDI.** Please refer to guidelines under the “**Business Rules and Requirements**” section of this document in the event that incorrect information is transmitted and an ASN needs to be re-transmitted.

Example: BSN*00*900008*20110606*1126

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	BSN01	353	Transaction set purpose	M ID 2/2	00 for Original - We do not accept any replacements or cancellations through EDI
Required	BSN02	396	Shipment Identifier	M AN 2/30	ASN number. Unique number that should not be repeated within the next one year and also should be the same as the packing slip number (therefore if you have to create packing slip grouping rules to manage this it has to be done)
Required	BSN03	373	Date	M DT 8/8	Date of ASN creation Format : YYYYMMDD
Required	BSN04	337	Time	M TM 4/8	Time of ASN creation Format : HHMMSS

Segment: **DTM** Date/Time Reference
Level: Header
Loop: N/A
Usage: Mandatory
Max Use: 2
Purpose: To specify pertinent dates and times.
Syntax: DTM02 is required.
Example: DTM*017*20040619*0230*ET

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	DTM01	374	Date/Time Qualifier	M ID 3/3	'017' which is indicating the date and time of the expected arrival at Gentex. '011' which is indicating the date and time of the material leaving the Supplier shipping dock.
Required	DTM02	373	Date	MC DT 8/8	Date Format : CCYYMMDD
Optional	DTM03	337	Time	O TM 4/8	Format HHMM

Segment: **HL Hierarchical Level**
Level: Detail
Loop: HL - **Shipment**
Usage: Optional
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments.
Comments: The HL Segment is used to identify levels of detail information using a Hierarchical Structure, such as relating line item data to shipment data, and packaging data to line item data.
Example: HL*1**S

ARM Req	ELEM ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	HL01	628	Heirarchical ID Number	M N0 1/12	1 incremented with 1 within the same transaction set
Not Used	HL02	734	Heirarchichal Parent ID number	N N0 1/12	Not Used for this occurrence of the HL segment
Required	HL03	735	Heirarchical Level Code	M ID 1/12	S' for Shipment

Segment: **MEA** Measurements
Level: Detail
Loop: HL - **Shipment**
Usage: Optional
Max Use: 2
Purpose: To specify physical measurements of weights to Gentex
Syntax:
Examples: MEA*PD*G*1000*LB
 MEA*PD*N*970*LB

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Optional	MEA01	737	Measurement Reference ID	O ID 2/2	'PD' - Physical Dimentions
Optional	MEA02	738	Measurement Qualifier	O ID 1/3	'G' - Gross Weight 'N' - Net Weight
Conditional	MEA03	739	Measurement Value	C R 1/20	Value of Weight
Conditional	MEA04	355	Unit Of Measure Code	C ID 2/2	Please reference 850 specification document for a complete list of UOM Codes and their meaning/name

Segment: **REF Reference Numbers**
Level: Detail
Loop: HL - **Shipment**
Usage: Mandatory
Max Use: > 1
Purpose: To specify identifying numbers.
Syntax: While REF02 is required, REF03 is optional
Comments: At Gentex we are specific that the packing slip number needs to be communicated. Bill of Lading and Waybill numbers can be communicated if available. We will fail an ASN if 'PK' is missing, but will not fail if 'BM' is not available.
Examples : REF*PK*12345
REF*BM*56234

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	REF01	128	Reference Number Qualifier	M ID 2/3	'PK' - Packing slip (This should be sent else 856 will be rejected) 'BM' - Bill of Lading (this is optional)
Conditional	REF02	127	Reference Number	C AN 1/30	Value based of REF01 value

Segment: N1 Name
Level: Detail
Loop: N1 - HL Shipment
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name and code
Syntax: 1) At least one of N102 or N103 is required.
 2) If either N103 or N104 is present, then the other is required.
Comments: ST and SU entity codes are mandatory and ST & SU identification codes are provided to the supplier using our 850 document ST & SU codes
Examples: N1*ST**92*STA
 N1*SU**92*13791-MAIN

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	N101	98	Entity ID Code	M IS 2/3	ST - Ship To: This is the Gentex location as communicated on our 850 SU - Ship From: This is the supplier code + site as defined in Gentex EBS system which is also commincated in our 850 Both are mandatory
Required	N103	66	Identification Code Qualifier	C ID 1/2	'92' for Buyer assigned only
Required	N104	67	Identification Code	C AN 2/80	Identifier for '92'

Segment: **HL Hierarchical Level**

Level: Detail

Loop: HL - Item

Usage: Mandatory

Max Use: 1

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments.

Comments:

- 1) The HL Segment is used to identify levels of detail information using a Hierarchical Structure, such as relating line item data to shipment data, and packaging data to line item data
- 2) HL01 shall contain a unique number for each occurrence of the HL segment in the transaction set. For example HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment, and would be incremented by one in each subsequent HL segment within the transaction.
- 3) HL02 identifies the Hierarchical ID Number of the HL segment to which the current HL segment is subordinate.
- 4) HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order or item level information.

Examples : HL*2*1*I

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	HL01	628	Heirarchical ID	M N0 1/12	Start with 1 incremented with 1 within the same transaction set
Required	HL02	734	Heirarchical Parent ID	M N0 1/12	The ID number of the parent HL segment
Required	HL03	735	Heirarchical Level Code	M ID 1/2	'I' for Item

Segment: **LIN** Item Identification
Level: Detail
Loop: HL - Item
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data.
Syntax:
Comments:
Example: LIN**BP*ABC-1234-123*EC*BAB

ARM Req	ELEM ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Conditional	LIN02	235	Product / Service ID Qualifier	C ID 2/2	'BP' - For Buyer Part Number If Gentex has communicated 'BP' on the the 850 in the PO108 segment, this is Mandatory.
Conditional	LIN03	234	Product / Service ID	C AN 1/25	If LIN02 is populated, then LIN03 is mandatory and vice versa. This must be the exact value on the LIN03 segment of the Gentex 850.
Conditional	LIN04	235	Product / Service ID Qualifier	C ID 2/2	'EC' - Engineering Change Level - This means Gentex 'Revision' Level. If the value of 'DR' is transmitted in the PO110 segment of the Gentex 850, this is mandatory.
Conditional	LIN05	234	Product / Service ID	C AN 1/25	Revision Number (can be alpha or numeric depending on what Gentex has ordered). This should be the exact value transmitted in the PO111 segment (corresponding to the PO110 value of 'DR') on the Gentex 850.

Segment: **SN1** Item Detail (Shipment)
Level: Detail
Loop: HL
Usage: Mandatory
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Comments: Quantity Shipped to date is not mandatory
Examples: SN1**12*EA*5638
 SN1**436*EA

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	SN102	382	Number Of Units Shipped	M R 1/10	Count
Required	SN103	355	Unit Of Measure Code	M ID 2/2	As transmitted in the SCH02 or PO103 (both should be identical) segment of the Gentex EDI 850.
Optional	SN104	646	Quantity Shipped To Date	O R 1/5	Cumulative Quantity Shipped to date including this ASN. This is not currently used by Gentex.

Segment: **PRF** Purchase Order Reference
Level: Detail
Loop: HL Mandatory
Usage: Mandatory
Max Use: 1
Purpose: To provide reference to a specific purchase order.
Comments: PRF04 is the date assigned by the purchaser to purchase order.
Examples: PRF*1234567*0***1

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	PRF01	324	Purchase Order Number	M AN 1/10	Standard Purchase Order Number as sent in PO
Optional	PRF02	328	Release Number Note: This field will be used to populate the Release number for Blanket releases and as Revision Numbers for Standard or stand alone purchase orders	O AN 1/10	If the 850 BEG02 segment is transmitted as 'SA', this indicates the Revision Number of the stand alone order or standard Purchase Order (this will be 0 for all Gentex 850 documents and 1,2,3, etc for 860 Change Orders). If the 850 BEG02 is indicated as 'RL' this will indicate the Release Number.
Not Used	PRF03	327	Change Order Sequence Number	N AN 1/8	Not used by Gentex at this time.
Not Used	PRF04	373	Purchase Order Date Format CCYMMDD	N AN 8/8	Not used by Gentex at this time.
Required	PRF05	350	Assigned Identification	M AN 1/20	PO Line Number as sent in the PO101 Segment of the Gentex EDI 850.

Segment: **CTT** Transaction Totals
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit total for a specific element in the transaction set
Comments: This segment is intended to provide hash totals to validate transaction completeness and correctness.
Examples: CTT*7*700

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	CTT01	354	Number Of Line Items	M N0 1/6	Total number of HL segments
Optional	CTT02	347	Quantity Hash Total	O R 1/10	Grand total of all quantities shipped from all SN102 segments

Segment: **SE** Transaction Set Trailer
Level: Summary
Loop:
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].
Examples: SE*250*0001

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	SE01	96	Number of Included Segments	M N0 1/10	
			Transaction set Control		
Required	SE02	329	Number	M AN 4/9	Same as ST02 value

Appendix: Sample ASN

ISA*00* *00* *01*XXXXXXXX *01*065855363 *120517*0956*U*04010*000004012*0*P*~!
GS*SH*ICN4248*065855363A*20120517*0956*4012*X*004010!
ST*856*0001!
BSN*00*72052*20120517*0956!
DTM*011*20120517*0956!
DTM*017*20120518*1130!
HL*1**S!
MEA*PD*G*100*LB!
MEA*PD*N*99*LB!
REF*PK*72052!
REF*BM*117981!
N1*ST**92*CEN!
N1*SU**92*14302-DIRECT!
HL*2*1*!!
LIN**BP*345-0880-000*EC*BAC!
SN1**288*EA!
PRF*1332538****1!
CTT*1*288!
SE*16*0001!
GE*1*4012!
IEA*1*000004012!