



SPECIFICATION AND BUSINESS
PROCESS DOCUMENT

Gentex Corporation

Inbound Purchase Order
Acknowledgement
(POA/855)

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Reviewers

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Introduction

The purpose of this document is to provide the details on policies and procedures for Purchase Order Acknowledgements (POA) 855 transactions specific to the requirements of Gentex Corporation.

Any questions or concerns regarding EDI 855/POA's at Gentex can be addressed directly by contacting us at edi@gentex.com.

Business Rules and Requirements

- For North American (US, Canada and Mexico) suppliers**, Gentex requires the EDI 855 Purchase Order Acknowledgement (POA) transmission be sent within 12 hours of receipt of the Gentex 850 Purchase order EDI document by the supplier. For suppliers outside North America, Gentex requires the EDI 855 be sent within 24 hours of receipt of the 850.

*** For short lead time suppliers (suppliers with a lead time to Gentex of less than 24 hours), PO's/855's must be sent within 60 minutes of receipt of the 850. If leadtime to Gentex is less than 60 minutes, the 855's must be sent before actual shipment and subsequent ASN (856) generation to Gentex. Please conduct a feasibility study with the Gentex Procurement Functional Lead before implementing 855 transactions with short lead time suppliers.*

- The supplier 855 document should reciprocate to the Gentex 850 document.
- Suppliers should ensure that the Supplier Site information (stored in Gentex internal System) communicated via the 850 document is part of the returned 855 as per the specs detailed in this document – this is detailed under the N1/Name section of this document.
- Suppliers can transmit the 855 at anytime including holidays and weekends.
- If there is a disruption of the normal EDI 855 service from vendors, they are required to communicate it to the Gentex EDI contacts listed in this document (above).
- Suppliers must not resend a change to an earlier 855, but instead should contact the Gentex Planner directly if the supplier must change their original commitment.

Processing Standard

For inbound 855 Documents, Gentex uses ANSI X12 Version 004010. Version 004010 is century compliant.

Communication Information

VAN: Covisint

Production Qualifier /ID: 01:065855363SUP

Processing Times

POA's/855's must be transmitted within **60 minutes** for Short Leadtime Suppliers,** within **12 hours** for North American Suppliers, and within **24 hours** for Suppliers Outside North America upon receipt of the Gentex 850 (Purchase Order) document.

***Short leadtime suppliers are suppliers with a lead time to Gentex of less than 24 hours. If the leadtime between 850/PO receipt and supplier shipment is less than 60 minutes, POA's/855's must be transmitted prior to actual shipment and subsequent 856 (ASN).*

Gentex will collect inbound 855 files and process them every **10 Minutes**.

Gentex will send out 997 acknowledgements immediately upon RECEIPT of 855 files from the inbox. This is not an indication that the Gentex ERP system has processed the file successfully, only that it hit our inbox.

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

Accuracy and Reliability of Data

Suppliers should take care to ensure that the dates transmitted are accurate to the best of their knowledge. Gentex uses the POA information in its planning and manufacturing line scheduling process and wrong information on an 855 will impact Gentex and our ability to deliver to our customers.

EDI levels and Segments

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

This Standard contains the format and establishes the data contents of the Gentex Corporation Purchase Order Acknowledgement (855) Transaction Set for use within the context of an Electronic Data Interchange (EDI) environment. Please refer to your copy of the official *EDI Services Guide* for additional information.

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	
BAK	Beginning Segment for Purchase Order Acknowledgement	M	1	
LOOP ID N1				
N1	Beginning Segment for Purchase Order Acknowledgement	M	1	N1/2
Detail Level				
PO1	Measurements	N	2	
ACK	Reference Numbers	M	5	
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 and to assign a control number.
Semantics: The transaction set identifier (ST01) 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*855*37499

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	ST01	143	Transaction Set ID Code: Code uniquely identifying a transaction set Code Name 855 Purchase Order Acknowledgement	M ID 3/3	Indicate as '855'
Required	ST02	329	Transaction Set Control Num: 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	This is a unique number assigned to each transaction set within a functional group

Segment: **BAK Beginning Segment for Purchase Order Acknowledgement**
Level: Header
Loop: N/A
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Purchase Order Acknowledgement Set and transmit identifying numbers and dates.
Syntax:
Comment:
Example: BAK*00*AD*1159471*20120425*99**1159471*SMRSO100002345*20120425!

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	BAK01	353	Transaction set purpose code	M ID 2/2	00 for Original
Required	BAK02	587	Acknowledgement type code name	M ID 2/30	Indicate as 'AD'
Required	BAK03	324	Purchase Order Number	M AN 1/22	This number is communicated on the Gentex 850 as the BEG03 segment value.
Required	BAK04	373	Date	M DT 8/8	Date of PO as per original 850 sent by Gentex in segment BEG05. Format : CCYYMMDD
Required	BAK05		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	M DT 8/8	If the 850 BEG02 segment is transmitted as 'SA', this indicates the Revision Number of the stand alone order or standard Purchase Order. If the 850 BEG02 is indicated as 'RL' this will indicate the Release Number.
Not Used	BAK06		Request Reference Number	N DT 8/8	Not used by Gentex at this time
Not Used	BAK07		Contract Number	N AN 4/8	Not used by Gentex at this time
Optional	BAK08		Sellers Order Number	O AN 4/8	Optional
Required	BAK09		Acknowledgement Date	M DT 8/8	Date on which the acknowledgement is created. Format : CCYYMMDD

Segment: N1 Name
Level: Detail
Loop: N1
Usage: Mandatory
Max Use: 1
Purpose: To identify the Supplier Site 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: SU identification code is provided to the supplier using our 850 document. N1 segment, as shown in the below example, is always mandatory for every new header.

Examples: N1*SU**92*17995-DIRECT!

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	N101	98	Entity ID Code	M ID 2/3	SU - This is the supplier code + site as defined in Gentex EBS system which is communicated in our 850 N101 segment
			Code Meaning		
			SU Supplier Ship From		
Not used	N102		Name	M AN 1/60	Not used by Gentex at this time
Required	N103	66	Identification Code Qualifier	C ID 2/2	Use '92' only
			Code Meaning		
			92 Assigned by purchaser (buyer)		
Required	N104	67	Identification Code	C AN 2/80	This is the N104 segment transmitted on the Gentex 850.

Segment: PO1 **Baseline Item Data**
Level: Detail
Loop: PO1
Usage: Mandatory
Max Use: 1
Purpose: To provide reference to a specific purchase order.
Comments:
Examples: PO1*7*1000*EA*****BP*345-0720-000!

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	PO101	350	Assigned Identification: At Gentex we communicate this identifier as the PO line	M AN 1/10	PO Line Number as sent on the 850 PO101 segment.
Required	PO102	330	Total Quantity Ordered	M R 1/15	Total Quantity on the PO102 segment of the 850 from Gentex.
Required	PO103	355	Unit or Basis for measurement code	M ID 2/2	As communicated on the 850 PO103.
Not Used	PO104	212	Unit Price	N R 1/17	Not used by Gentex at this time
Not Used	PO105	639	Basis of Unit Price Code	N ID 2/2	Not used by Gentex at this time
Optional	PO106	235	Product / Service ID Qualifier Code Meaning MG Manufacturers Part #	O ID 2/2	This is optional. The supplier can choose to send their internal part numbers. If PO107 is entered, this is Mandatory and vice versa. <i>**Please note there is no validation done on this field or the PO107 field, so if the manufacturer's part number is in any way different from what we transmit, please contact the Gentex Planner for reconciliation.</i>
Optional	PO107	234	Product / Service ID	O AN 1/48	Supplier internal part number. If PO106 is entered, this is Mandatory and vice versa.
Conditional	PO108	235	Product / Service ID Qualifier Code Meaning BP Buyers Part #	C ID 2/2	If Gentex has communicated 'BP' on the the 850 in the PO108 segment, this is Mandatory.
Conditional	PO109	234	Product / Service ID	C AN 1/48	If PO108 is populated, then PO109 is mandatory and vice versa. If the exact value on the LIN03 segment of the 850 is not returned in PO109 of the 855, Gentex will reject the acknowledgement.

Segment: **ACK** Line Item Acknowledgement
Level: Detail - Mandatory
Loop: ACK
Usage: Mandatory even if there are no changes
Max Use: 100
Purpose: To acknowledge the ordered quantities and specify the ready date for a specific line item.
Comments:
Examples: ACK*IA*1000*EA*017*20120501**SI*1!

ARM Req	ELEM ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	ACK01	668	Line Item Status Code Code Meaning IA Item Accepted DR Date Rescheduled	M ID 2/2	Gentex does not process any files where price change/quantity change/item substitution, etc. is/are done. <i>If there are quantity changes, please call the Gentex Planner directly.</i>
Required	ACK02	380	Quantity	M R 1/15	This should be the same as on the SCH01 segment of the Gentex 850.
Required	ACK03	355	Unit or Basis of Measure Code	M ID 2/2	This should be the same as on the SCH02 segment of the Gentex 850.
Required	ACK04	374	Date/Time Qualifier Code Meaning 017 Estimated Delivery	M ID 3/3	Please provide Gentex with estimated delivery only. Transportation leadtimes should be considered by the supplier while generating the date in ACK05.
Required	ACK05	373	Date	M DT 8/8	Format is CCYYMMDD
Required	ACK07	235	Product/ Service ID Qualifier	M ID 2/2	Return the value as 'SI' only.
Required	ACK08	234	Code Meaning SI Shipment Identifier Product/ Service ID	M AN 1/48	Return the value indicated on the 850 document in the SCH12 segment.

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* 2 !

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	CTT01	354	Number Of Line Items	M N0 1/6	Total number of PO1 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*10*37499!

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

Appendix: Sample 855

ISA*00* *00* *01*XXXXXXXX *01*065855363
*20120425*1246*U*00200*000003150*0*P*
GS*PR*SMR*065855363*20120425*1246*5331*X*004010!
ST*855*37499!
BAK*00*AD*1159471*20120425*99**1159471*SMRSO100002345*20120425!
N1*SU**01*17995-DIRECT!
PO1*7*1000*EA****BP*345-0720-000!
ACK*IA*1000*EA*017*20120501**SI*1!
PO1*6*1000*EA***MG*353061*BP*345-0717-000!
ACK*DR*250*EA*017*20120506**SI*1!
ACK*DR*750*EA*017*20120522**SI*2!
CTT*2!
SE*10*37499!
GE*1*5331!
IEA*1*000003150!