



SPECIFICATION AND BUSINESS
PROCESS DOCUMENT

Gentex Corporation

Outbound Planning Schedule
(EDI 830/PS)

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Document Control

Change Record

Date	Version	Change Reference
04-June-12	1.0	Transferred existing document to the standard format.
1-Nov-13	1.1	Updated Address information for Centennial East and West (dock door numbering convention) and added Drop Ship EDI location.
3-Sep-14	1.2	Updated N1 to include Supplier Code + Site
6-Dec-18	1.3	Adding NRB1, NRB10 for Site Locations

Reviewers

Position
Gentex Functional Lead
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Introduction

The purpose of this document is to provide the details on policies and procedures for the outbound EDI process of Planning Schedules (830) as per Gentex's current process.

Any questions or concerns regarding EDI 830s at Gentex can be addressed directly by contacting us at edi@gentex.com.

Business Rules and Requirements

- Gentex will run the supplier scheduling programs that generate the forecasts once a week on Thursday evenings.
- Gentex communicates only forecast numbers via its 830 document. Firm orders are not part of the Gentex 830 document and therefore the supplier is expected to look at the 830 and the 850 together to get a comprehensive demand picture including firm orders and forecast quantities.
- Gentex uses a bucket pattern of 12 weeks followed by 9 months for all suppliers.
- Suppliers should ensure that they respond to our 830 document with a 997 (Functional Acknowledgement) within 5 minutes of receipt of our 830 document.
- If there is a disruption of the normal EDI 830 due to any reason from Gentex then suppliers are advised to use the Gentex Supplier Portal to view the latest forecasts from Gentex to avoid disruption to their planning process. The portal has features that can help you export to excel for easy review of the Gentex weekly forecasts.
- If an 830 file needs to be retransmitted, Gentex can do so at Suppliers request.

Processing Standard

Gentex uses ANSI X12 Version 004010 for the EDI 830.

Communication Information

VAN - Covisint
Production Sender/Receiver ID - 01:065855363SUP

Processing Times

The EDI 830 will be once a week on Thursday evenings.

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 format and establishes the data contents of the Planning Schedule Transaction Set (830) for use within the context of an Electronic Data Interchange (EDI) environment.

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	
BFR	Beginning Segment for Planning Schedule	M	1	
N1	Name	M	1	
Detail Item Level				
LIN	Item Identification	M	1	
UIT	Unit Detail	M	1	
REF	Reference Identification (Part Related Remarks)	M	12	
Detail Shipment Level				
FST	Forecast Schedule	M	200	
Summary Segments				
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: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set.
Syntax:
Example: ST*830*11109~

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	ST01	143	Transaction Set ID	M ID 3/3	
Required	ST02	329	Transaction set Control Number	M AN 4/9	

Segment: **BFR Beginning Segment for Planning Schedule**
Level: Header
Loop: N/A
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates
Syntax:
Comment:
Example: BFR*05*10498**DL*A*20120420*20130430*20120420~

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	BFR01	353	Transaction set purpose <u>Code Name</u> 05 Replace	M ID 2/2	Gentex will always send a replacement purpose code.
Required	BFR02	127	Reference Number	C AN 1/30	Reference number or identification number as defined for a particular transaction set, or as specified by the Reference Number Qualifier.
Required	BFR04	675	Schedule Type Qualifier <u>Code Name</u> DL Delivery Based	M ID 2/2	Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast
Required	BFR05	676	Schedule Quantity Qualifier <u>Code Name</u> A Actual Discrete Quantities	M ID 1/1	Code identifying the type of quantities used when defining a schedule or forecast
Required	BFR06	373	Date Date expressed as CCYYMMDD	M DT 8/8	Earliest due date for all parts (Earliest FST_04 date for all LIN's - Line Items)
Required	BFR07	373	Date Date expressed as CCYYMMDD	O DT 8/8	Latest due date for all parts (Latest FST_04 date for all LIN's - Line Items)
Required	BFR08	373	Date Date expressed as CCYYMMDD	M DT 8/8	Date forecast generated

Segment: N1 Name
Level: Header
Loop: N/A
Usage: Mandatory
Max Use: 2
Purpose: To identify a party by type of organization, name and code
Syntax:
Comments: ST and SU identification codes are provided to the supplier using our 830 document
Examples: N1*ST**92*STA~
 N1*SU**92*13791-MAIN~

ARM Req	ELEM ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	N101	98	Entity Identification Code <u>Code</u> <u>Name</u> ST Ship to Location SU Supplier Code	M ID 2/2	ST - Ship To: This is the Gentex location as communicated on our 830 SU - Ship From: This is the supplier code + site as defined in Gentex EBS system which is also commincated in our 850 '92' for Buyer assigned only
Required	N103	66	Identification Code Qualifier	C ID 2/2	
Required	N104	67	Identification Code	C AN 2/80	Identifier for '92'

N104 Values where N101 = ST		
<u>Location Name</u>	<u>N104 Value</u>	<u>Gentex Physical Address</u>
Fire Protection	CHI	10985 Chicago Drive Zeeland, MI 49464
Centennial West	CENW	600 North Centennial Street Dock Doors 1-4 Zeeland, MI 49464
State Street South	STA	675 North State Street Zeeland, MI 49464
Riley	RIL	58 East Riley Street Zeeland, MI 49464
Centennial East	CENE	600 North Centennial Street Dock Doors 5-11 Zeeland, MI 49464
James	JAM	11768 James Street Holland, MI 49424
Riley Prototype Warehouse	PRO	380 East Riley Street Zeeland, MI 49464
Riley Raw Material Warehouse	DIST	310 East Riley Street Zeeland, MI 49464
Riley 220 (Chemical Synthesis)	CHEM	220 East Riley Street Zeeland, MI 49464
Case Karsten	CKN	790 Case Karsten Drive Zeeland, MI 49464
North Riley Building 1	NRB1	9001 Riley Street Building 1 Zeeland, MI 49464
North Riley Building 10	NRB10	9001 Riley Street Building 10 Zeeland, MI 49464
Drop Ship	DRP	This is a virtual location only used for items drop shipping to our customers. Suppliers will be contacted by Gentex to communicate specific N104 values for each customer along with the corresponding address. Forecast files (830) will be communicated with this location, but 850 files will not.

Segment: **LIN** Item Identification
Level: Detail
Loop: LIN
Usage: Mandatory
Max Use: 100
Purpose: To specify basic and most frequently used line item data.
Syntax:
Comments:

Example: LIN**BP*280-0385-000~

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	LIN01	350	Assigned Identification	O AN 1/11	
Required	LIN02	235	Product/Service ID Qualifier <u>Code Name</u> BP Buyer's Part Number	M AN 2/2	
Required	LIN03	234	Product/Service ID	M AN 1/30	

Segment: **UIT** Unit Detail
Level: Detail
Loop: LIN
Usage: Mandatory
Max Use: 1
Purpose: To specify item unit data
Syntax:
Comments:
Examples: UIT*EA~

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	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 All valid standard codes are used - please reference the Gentex 850 spec for specific values used.

Segment: REF Reference Identification
Level: Detail
Loop: LIN
Usage: Optional
Max Use: 1
Purpose: To specify part related remarks
Syntax:
Comments:
Examples: REF*PO*0~

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	REF01	128	Reference Identification Qualifier <u>Code</u> <u>Name</u> PO Purchase Order Number	M ID 2/2	
Required	REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.	C AN 1/30	This field will always be zero. Gentex does not send the PO number on the forecast document.

Segment: FST Forecast Schedule
Level: Detail
Loop: LIN
Usage: Mandatory
Max Use: 400
Purpose: To specify the forecasted dates and quantities
Syntax:
Comments:
Example:

FST*100*D*A*20120419~
 FST*5000*D*W*20120420~
 FST*6560*D*W*20120423~
 FST*80*D*W*20120430~
 FST*6240*D*W*20120507~

ARM	ELEM				
Req	ID	ELE#	NAME	ATTRIBUTES	COMMENTS
Required	FST01	380	Quantity	M R 1/15	
Required	FST02	680	Forecast Qualifier Code specifying the sender's confidence level of the forecast data or an action associated with a forecast	M ID 1/1	
			<u>Code</u> <u>Name</u> D Planning		
Required	FST03	681	Forecast Timing Qualifier	M ID 1/1	
			<u>Code</u> <u>Name</u> A Partial/buffer week for the last 3 days of the week D Daily Bucket M Monthly Bucket (Calendar Months) W Weekly Buckets (Sunday through Saturday)		
Required	FST04	373	Date	M DT 8/8	CCYYMMDD

Segment: **SE** Transaction Set Trailer
Level: Summary
Loop: NA
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*193*11109~

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 830

ISA*00* *00* *01*065855363SUP *ZZ*123456789 *120530*1057*U*00401*000006473*0*T*<~
GS*PS*065855363SUP*123456789*20120530*1057*252*X*004010~
ST*830*11109~
BFR*05*10499**DL*A*20120420*20130430*20120420~
N1*ST**92*JAM~
N1*SU**92*12345-DIRECT~
LIN**BP*280-0443-000~
UIT*EA~
REF*PO*0~
FST*0*D*A*20120419~
FST*0*D*W*20120420~
FST*12160*D*W*20120423~
FST*80*D*W*20120430~
FST*8800*D*W*20120507~
FST*8880*D*W*20120514~
FST*8960*D*W*20120521~
FST*3520*D*W*20120528~
FST*8640*D*W*20120604~
FST*8560*D*W*20120611~
FST*7600*D*W*20120618~
FST*8640*D*W*20120625~
FST*1280*D*W*20120702~
FST*6560*D*W*20120709~
FST*18880*D*W*20120716~
FST*48640*D*M*20120801~
FST*36240*D*M*20120901~
FST*35520*D*M*20121001~
FST*45040*D*M*20121101~
FST*22400*D*M*20121201~
FST*26880*D*M*20130101~
FST*30480*D*M*20130201~
LIN**BP*280-0503-000~
UIT*EA~
REF*PO*0~
FST*0*D*A*20120419~
FST*0*D*W*20120420~
FST*1680*D*W*20120423~
FST*400*D*W*20120430~
FST*2720*D*W*20120507~
FST*2480*D*W*20120514~
FST*3280*D*W*20120521~
FST*2160*D*W*20120528~
FST*2240*D*W*20120604~
FST*2320*D*W*20120611~
FST*2720*D*W*20120618~
FST*2640*D*W*20120625~
FST*240*D*W*20120702~
FST*400*D*W*20120709~
FST*5760*D*W*20120716~
FST*14720*D*M*20120801~
FST*10320*D*M*20120901~
FST*10480*D*M*20121001~
FST*13920*D*M*20121101~
FST*6560*D*M*20121201~
FST*8240*D*M*20130101~
SE*52*11109~
GE*1*252~
IEA*1*000006473~