March 13, 2007

830 – Planning Schedule with Release Capability

ANSI X.12
Version 004010

Usage Convention

The Planning Schedule with Release Capability transaction set (830) provides for a more efficient means to communicate forecasting/material release information. This transaction replaces the weekly paper schedule requirements. This version is century compliant and is a common version for all Harley-Davidson sites. In addition, both the ANSI X.12 (X12) standard and the Harley-Davidson (H-D) standard are shown for all attributes. These standards consider the AIAG guidelines.

The following Interchange ID and Qualifier must be set up to receive the Planning Schedule with Release Capability transaction set from Harley-Davidson.

Interchange ID Qualifier (ISA07):	01
Interchange Receiver ID (ISA08):	062629324
Application Sender's Code (GS02):	062629324

Since the Planning Schedule with Release Capability transaction set is common among all Harley-Davidson plants, it is extremely important to be able to associate the Scheduler Issuer (N1 SI) and the Ship To Location (N1 ST) segment codes to the correct plant and location. These codes must be included in the Ship Notice/Manifest (856) transaction set. For a list of valid codes and to determine the correct data combination for the Scheduler Issuer and Ship To Location, refer to Appendix A "Plant / Ship To Location Codes".

It is expected that all **production** parts suppliers would receive parts requirements electronically on a weekly basis. For suppliers that **receive only the 830 schedule** (without 862) this electronic schedule is **both a planning document and a ship schedule**. For suppliers that receive **both the 830 and 862, this schedule represents only a planning document**. Shipments must be made from the 862 requirement.

Parts & Accessory suppliers should use this transaction as a **planning/forecast schedule**. The 850 is the transaction that triggers material to ship.

Seg	Ref Des	Data Element	Name	Attributes	Description
Header					
ST	**Transaction Set Header – Software Translator will Provide – (M)**				
	ST01	143	Transaction Set Identifier Code	H-D M ID 3 X12 M ID 3/3	'830' Code that defines this transaction set at the Planning Schedule with Release
	ST02	329	Transaction Set Control Number	H-D M AN 4/9 X12 M AN 4/9	Sequential Number assigned by the translator. This must match the control number in the transaction set trailer (SE segment).
BFR	**Beginning Segment for Planning Schedule – (M)**				
	BFR01	353	Transaction Set Purpose Code	H-D M ID 2 X12 M ID 2/2	One of the following identifying codes will populate this element: '00' Original '05' Replacement of the original material release
	BFR03	328	Release Number	H-D M AN 8 X12 X AN 1/30	A sequential assigned release number by planner for this EDI transmission. If shipping against this transaction, this data must be entered in the REF RE (REF02) segment in the ASN (856 transaction).
	BFR04	675	Schedule Type Qualifier	H-D M ID 2 X12 M AN 2/2	One of the following identifying codes will populate this element: 'DL' Delivery 'SH' Shipment based material release
	BFR05	676	Schedule Quantity Qualifier	H-D M ID 1 X12 M ID 1/1	'A' Identifies **actual** discrete quantity requirements expected on the delivery or shipment
	BFR06	373	Horizon Start Date	H-D M DT 8 X12 M DT 8/8	CCYYMMDD. The beginning date including the century of the period covered in this material release.

	BFR07	373	Horizon End Date	H-D M DT 8 X12 M DT 8/8	CCYYMMDD. The ending date including the century of the period covered in this material release.
	BFR08	373	Release Date	H-D M DT 8 X12 M DT 8/8	CCYYMMDD. The current issue date including the century of this material release.
N1	**Name Material Release Issuer – (M)**				
	N101	98	Entity Identifier Code	H-D M ID 2 X12 M ID 2/3	'MI' Code identifying the planning schedule/material release issuer
	N103	66	Identification Code Qualifier	H-D M ID1/2 X12 X ID 1/2	One of the following identifying codes will populate this element: '1' The Duns code for H-D '92' Assigned by buyer See Appendix A, Plant / Ship To Location, for the correct Identification Code Qualifier.
	N104	67	Identification Code	H-D M AN 2/10 X12 X AN 2/80	See Appendix A, Plant / Ship To Location, for valid codes.
N1	**Name Ship To Location – (O)**				
	N101	98	Entity Identifier Code	H-D M ID 2 X12 M ID 2/3	'ST' Code identifying the ship to location
	N103	66	Identification Code Qualifier	H-D M ID 1/2 X12 X ID 1/2	One of the following identifying codes will populate this element: '1' The Duns code for H-D '92' Assigned by buyer See Appendix A, Plant / Ship To Location Codes, for the correct Identification Code Qualifier.
	N104	67	Identification Code	H-D M AN 2/10 X12 X AN 2/80	See Appendix A, Plant / Ship To Location Codes, for valid codes.

N1	**Name – The Supplier/Manufacturer – (M)**				
	N101	98	Entity Identifier Code	H-D M ID 2 X12 M ID 2/3	'SU' Identifies the supplier / manufacturer of the material
	N103	66	Identification Code Qualifier	H-D M ID 2 X12 X ID 1/2	'92' Assigned by purchaser or buyer
	N104	67	Identification Code	H-D M AN 2/13 X12 X AN 2/80	Supplier code assigned by the PO issuer, Harley-Davidson

Detail

LIN	**Item Identification – P&A 830 will not contain elements 06 and 07 – (M)**				
	LIN02	235	Product ID Qualifier	H-D M ID 2 X12 M ID 2/2	'BP' Code to identify buyer's part number, as authorized by Harley-Davidson
	LIN03	234	H-D Part Number	H-D M AN 1/18 X12 M AN 1/48	Buyers part number of Harley-Davidson
	LIN04	235	Product ID Qualifier	H-D X ID 2 X12 X ID 2/2	'DR' Code identifying the drawing revision
	LIN05	234	Drawing Revision Level	H-D X AN 1/4 X12 XAN 1/48	The alpha numeric code indication drawing revision level
	LIN06	235	Product ID Qualifier	H-D M ID 2 X12 X ID 2/2	'PO' Code identifying the buyer's PO, as authorized by Harley-Davidson. **P&A 830s do not include this segment.**
	LIN07	234	Purchase Order Number	H-D M AN 1/15 X12 X AN 1/48	Purchase Order number of buyer, Harley-Davidson. **P&A 830s do not include this segment.**
UIT	**Unit Detail – (M)**				
	UIT01	355	Unit of Measurement Code	H-D M ID 2 X12 M ID 2/2	Code identifying the basic unit of measurement. See Appendix D, Unit of Measure Codes, for valid codes.
REF	**Delivery Location Information – one (1) occurrence – (O)**				
	REF01	128	Reference ID Qualifier	H-D M ID 2 X12 M ID 2/3	'DK' Code identifying the dock location
	REF02	127	Reference Identification	H-D M AN 1/3 X12 X AN 1/30	The deliver to receiving dock number at Harley Davidson. This location should be identified in

					the ASN (856).
REF	**Delivery Location Information – one (1) occurrence – (O)**				
	REF01	128	Reference ID Qualifier	H-D M ID 2 X12 M ID 2/3	'LF' Code identifying the assembly line consuming location
	REF02	127	Reference Identification	H-D M AN 1/12 X12 X AN 1/30	The deliver to location on the assembly line, the consuming location at Harley-Davidson. This location should be identified in the ASN (856) and the supplier's shipping label.
PER	**Administrative Communication Contract – (M)**				
	PER01	366	Contact Function Code	H-D M ID 2 X12 M ID 2/2	'EX' Code identifying the planner/scheduler/expeditor
	PER02	93	Planner Name	H-D M AN 1/30 X12 O AN 1/60	The name of the planner/scheduler/expeditor
ATH	**Resource Authorization – This may not be used by the Powertrain Operation – (O)**				
	ATH01	672	Resources Authorization Code	H-D M ID 2 X12 M ID 2/2	'PQ' Cumulative quantity release code
	ATH03	380	Quantity	H-D M R 1/15 X12 X R 1/15	Cumulative quantity release from all prior releases against this PO.
	ATH05	373	Date (Prior Release Date)	H-D M DT 8 X12 X DT 8/8	CCYYMMDD. The last Friday of the firm period including the century from the prior release
FST	**Forecast Schedule Past Due Quantity One (1) Occurrence – OE will send this segment. Parts &Accessories will not send this segment. – (O)**				
	FST01	380	Quantity	H-D M R 1/7 X12 M R 1/15	Numeric quantity past due.
	FST02	680	Forecast Qualifier	H-D M ID 1 X12 M ID 1/1	'A' Requirement on past due is immediate
	FST03	681	Forecast Timing Qualifier	H-D M ID 1 X12 M ID 1/1	'D' Code identifying discrete calculated past due
	FST04	373	Delivery Date (Start of Interval)	H-D M DT 8 X12 M DT 8/8	CCYYMMDD. Date including the century when the past due was calculated.

FST	**Forecast Schedule Weekly Schedules up to Fifty-Two (52) Occurrences – (M)**				
	FST01	380	Quantity	H-D M R 1/7 X12 M R 1/15	Quantity required by week. Quantity will be equal to or greater than zero (0).
	FST02	680	Forecast Qualifier	H-D M ID 1 X12 M ID 1/1	'D' The planned material requirements per time period
	FST03	681	Forecast Timing Qualifier	H-D M ID 1 X12 M ID 1/1	'W' Weekly material requirements
	FST04	373	Delivery Date (Start of Week)	H-D M DT 8 X12 M DT 8/8	CCYYMMDD. The delivery due date including the century at the start of the week.
FST	**Forecast Schedule 16 Week Requirement Total – One (1) Occurrence – (O)**				
	FST01	380	Quantity	H-D M R 1/7 X12 M R 1/15	Total quantity requirements for 16 weeks as defined by the following dates.
	FST02	680	Forecast Qualifier	H-D M ID 1 X12 M ID 1/1	'D' Planning schedule for the initial 16 week total
	FST03	681	Forecast Timing Qualifier	H-D M ID 1 X12 M ID 1/1	'F' Total of the 16 week period
	FST04	373	Delivery Date (Start of Interval)	H-D M DT 8 X12 M DT 8/8	CCYYMMDD. The start of the forecast for the weekly new schedule. For York and Kansas City, the 52-week period total starts beyond the current week and next week. For Powertrain, the 16-week period total starts with the current week to equal a 16-week horizon.
	FST05	373	Delivery Date (End of Interval)	H-D M DT 8 X12 M DT 8/8	CCYYMMDD. The last Monday including the century of the 16-week forecast.

FST	**Forecast Schedule 52 Week Planning Requirement Total – One (1) Occurrence – (O)**				
	FST01	380	Quantity	H-D M R 1/9 X12 M R 1/15	Total quantity of 52-week material requirements.
	FST02	680	Forecast Qualifier	H-D M ID 1 X12 M ID 1/1	'D' 52-week planning schedule
	FST03	681	Forecast Timing Qualifier	H-D M ID 1 X12 M ID 1/1	'F' The interval from start to ending date
	FST04	373	Delivery Date (Start of Interval)	H-D M DT 8 X12 M DT 8/8	CCYYMMDD. Beginning date including the century of the 52-week schedule.
	FST05	373	Delivery Date (Start of Interval)	H-D M DT 8 X12 M DT 8/8	CCYYMMDD. Last Monday date including the century of the 52-week schedule.
FST	**Forecast Schedule Daily Delivery Requirements – Up to 15 Occurrences for a range of no more than 15 working days. Parts & Accessories will not send this segment. – (O)**				
	FST01	380	Quantity	H-D M R 1/7 X12 M R 1/15	Numeric value of quantity. This FST segment will be sent only when quantity is equal to or greater than one (1).
	FST02	680	Forecast Qualifier	H-D M ID 1 X12 M ID 1/1	'C' Firm schedule as identified by day. This is a plan if shipment is not made against the 830.
	FST03	681	Forecast Timing Qualifier	H-D M ID 1 X12 M ID 1/1	'C' Specific requirements by day
	FST04	373	Delivery Date (Required Delivery Date)	H-D M DT 8 X12 M DT 8/8	CCYYMMDD. The delivery date for the daily quantity. Breaks down weekly schedule into daily requirements.

SHP	**Shipped/Received Information – Up to Two (2) Occurrences – (O)**				
	SHP01	673	Quantity Qualifier	H-D M ID 2 X12 O ID 2/2	'01' Code identifying the specific discrete quantity
	SHP02	380	Quantity (Last Received)	H-D M R 1/9 X12 X R 1/15	The quantity received per defined date.
	SHP03	374	Date/Time Qualifier	H-D M ID 3 X12 X ID 3/3	'050' Code identifying the receiving date
	SHP04	373	Date (Received)	H-D M DT 8 X12 X DT 8/8	CCYYMMDD. The date including the century of the last receipt(s) at the customer's location or Harley-Davidson plant.
REF	**Reference Numbers – (O)**				
	REF01	128	Reference ID Qualifier	H-D M ID 2 X12 M ID 2/3	'SI' Shippers identifying number, ASN (856) number from the supplier. This same ASN number must show on the packing list.
	REF02	127	Reference Identification	H-D M AN 1/8 X12 X AN 1/30	The ASN number for suppliers sending 856s. This number, generated by suppliers, would show on the packing list.
SHP	**Shipped/Received Information – (O)**				
	SHP01	673	Quantity Qualifier	H-D M ID 2 X12 O ID 2/2	'02' Code specifying cumulative quantity
	SHP02	380	Quantity	H-D M R 1/15 X12 X R 1/15	Cumulative quantity received through last reported receipt for this PO.
	SHP03	374	Date/Time Qualifier	H-D M ID 3 X12 X ID 3/3	'051' Code identifying the cumulative start date
	SHP04	373	Date (Cum Start)	H-D M DT 8 X12 X DT 8/8	CCYYMMDD. The start date including the century of the cumulative received quantity from the initiation of the purchase order.
	SHP06	373	Date (Cum End)	H-D M DT 8 X12 X DT 8/8	CCYYMMDD. The end date including the century of the cumulative received quantity from the initiation of the purchase order.

Summary

CTT	**Transaction Total – Accumulated by the EDI Software – (M)**				
	CTT01	354	Number of Line Items	H-D M N0 1/6 X12 M N0 1/6	Total number of line items in the transaction.
	CTT02	347	Hash Total	H-D M R 1/10 X12 O R 1/10	Sum of all FST quantity fields as defined in the software criteria.
SE	**Transaction Set Trailer – Software Translator Will Provide – (M)**				
	SE01	96	Number of Included Segments	H-D M NO 1/10 X12 M NO 1/10	Total number of segments included in a transaction set including ST and SE segments.
	SE02	329	Transaction Set Control Number	H-D M AN 4/9 X12 M AN 4/9	Identifying control number assigned by the originator for a transaction set. This must match the transaction set header.

830 Loop Structure

Segment	Description	Max. Usage Segment*
Header		
BFR	Beginning Segment for Planning Schedule	1
N1	MI – Material Release Issuer	1
N1	ST – Ship To	1
N1	SU – H-D Supplier ID representing company	1
Detail		
LIN	Item Identification (part/PO data)	1
UIT	Unit of Measurement Code	1
REF	DK – Dock Location	1
REF	LF – Assembly Line Consuming Location	1
PER	Code of the Planner/Scheduler	1
ATH	Cumulative Quantity Release	1
FST	A – Past Due Quantity	1
FST	D – Weekly Quantity	52
FST	D – 16 Week Quantity	1
FST	D – 52 Week Quantity	1
FST	C – Firm Schedule by Day	15
SHP	Discrete Quantity	2
REF	SI – Shippers Identifying Number	1
SHP	Cumulative Quantity	1
Summary		
CTT	Transaction Totals	1

Notes:

- Shows the maximum number of times the segment can repeat according to the Harley-Davidson specifications.

Loop that repeats multiple times.

Raw Data Example of OE 830

ISA¬00¬ ¬00¬ ¬01¬062629324
¬ZZ¬AR0000006870 ¬050815¬
1824¬U¬00401¬000008736¬0¬P¬>µ
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Raw Data Example of Parts & Accessories 830

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