



862 – Shipping Schedule

ANSI X.12
Version 004010

Usage Convention

The Shipping Schedule (862) transaction set, in a real-time environment, will detail to the supplier *actual* shipping requirements forecasted in a previous Planning Schedule (830) transaction set, but does not replace the Planning Schedule transaction set. This version (4010) 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 use of this transaction set will facilitate the practice of Just-In-Time (JIT) manufacturing by providing precise shipping schedule requirements on a more frequent basis than with the issuance of a Planning Schedule transaction set. Generally, this transaction is triggered by the customers' consumption of parts. This then notifies the supplier to replenish those consumed parts immediately.

Using this transaction in a real-time environment allows Harley-Davidson to communicate all schedules and changes immediately to the supplier. This means that Harley-Davidson can send multiple 862 requirements in a single day for a specific part number and for a specific site. The Harley-Davidson rules regarding real-time 862s are as follows:

- Original requirements will be sent as an original 862 with a unique release ID and a purpose code of 00 (Original).
- Replacement requirements will be sent whenever the original 862 requires a decrease in quantity. The replacement requirement will have the original release ID and the purpose code of 05 (Replacement).
- If additional quantities are required after the original 862 is sent, an additional 862 will be issued for the increased quantity and will have a unique release ID and a purpose code of 00 (Original).

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

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

Since the Shipping Schedule 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, refer to and to

determine the correct data combination for the Scheduler Issuer and Ship To Location, refer to Appendix A “Plant / Ship To Locations Codes”.

<u>Seg</u>	<u>Ref</u> <u>Des</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Description</u>
Header					
ST	Transaction Set Header – Software Translator Will Provide – (M)				
	ST01	143	Transaction Set Identification Code	H-D M ID 3 X12 M ID 3/3	‘862’ Code identifying this transaction set as the Shipping Schedule.
	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).
BSS	Beginning Segment for Shipping Schedule – (M)				
	BSS01	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 862
	BSS02	127	Reference Identification	H-D M AN 1/8 X12 M AN 1/30	If this 862 is being sent to an OE supplier, this data is the release number assigned to this schedule. This release number must be entered in the ASN (856 transaction) release field (REF RE, REF02 segment). If this 862 is being sent to a supplier of the Supplier Direct program, this data is the picklist number assigned to this schedule. This picklist number must be entered in the ASN (856 transaction) shipment identification field (BSN02 segment).
	BSS03	373	Schedule Create Date	H-D M DT 8 X12 M DT 8/8	CCYYMMDD – Current date (including the century).
	BSS04	675	Schedule Type Qualifier	H-D M ID 2	‘SH’ Code identifying shipment

			X12 M ID 2/2	based
BSS05	373	Horizon Start Date	H-D M DT 8 X12 M DT 8/8	CCYYMMDD – Earliest requirement date (including the century) on the schedule.
BSS06	373	Horizon End Date	H-D M DT 8 X12 M DT 8/8	CCYYMMDD – Last requirement date (including the century) on the schedule.
BSS07	328	Release Number	H-D M AN 8 X12 X AN 1/30	This element is required by the standard and is always a duplication of the data in BSS02.
BSS11	676	Schedule Quantity Qualifier	H-D M ID 1 X12 O ID 1/1	'A' Code identifying actual discrete quantities
N1	Name – Ship Schedule Issuer – (M)			
N101	98	Entity Identifier Code	H-D M ID 2 X12 M ID 2/3	'SI' Code identifying shipping scheduler issuer.
N103	66	Identification Code Qualifier	H-D M ID 1/2 X12 X ID 1/2	One of the following identifying qualifiers will populate this element: '1' 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. Note: To identify whether an 862 is from the OE or Supplier Direct business, the N104 value must be evaluated. If the N104 equals 4143434553, then the 862 is Supplier Direct. Any other value is equal to OE.
N1	Name – Ship To Location – (M)			
N101	98	Entity Identifier Code	H-D M ID 2 X12 M ID 2/3	'ST' Code identifying ship to location.
N102	93	Name	H-D M AN 1/60 X12 X AN 1/60	The name of the H-D dealer that parts are to be shipped to. Mandatory only for Supplier Direct shipments.

N103	66	Identification Code Qualifier	H-D M ID 1/2 X12 X ID 1/2	One of the following identifying qualifiers will populate this element: '1' 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. If this 862 is being sent to a supplier of the Supplier Direct program, this element will contain the H-D dealer code of where the product is to be shipped.
N3	Address Information – Used only for Supplier Direct shipments – Will be used up to two times – (O)			
N301	166	Address	H-D M AN 1/55 X12 M AN 1/55	The address of the H-D dealer that parts are to be shipped to. Used only for Supplier Direct shipments.
N302	166	Additional Address	H-D O AN 1/55 X12 O AN 1/55	Additional address information of the H-D dealer that parts are to be shipped to. Used only for Supplier Direct Shipments.
N1	Name – Supplier/Manufacturer – (M)			
N101	98	Entity Identifier Code	H-D M ID 2 X12 M ID 2/3	'SU' Code identifying supplier/manufacturer location, the material provider.
N103	66	ID Code Qualifier	H-D M ID 2 X12 X ID 1/2	'92' Code assigned by the H-D purchaser to represent your company.
N104	67	H-D Supplier Code	H-D M AN 2/13 X12 X AN 2/80	H-D supplier code assigned by the H-D purchaser to represent your company.
REF	Reference Identification – Used only for Supplier Direct shipments – (O)			
REF01	128	Reference ID Qualifier	H-D M ID 2 X12 M ID 2/3	'CO' Code identifying Customer Order type assigned by Harley-Davidson. Used only for

Supplier Direct shipments.

REF02	127	Customer Order Type	H-D M AN 2 X12 X AN 1/30	Alpha code identifying the P&A customer order type on supplier direct shipments. Used only for Supplier Direct shipments.
REF03	352	Description	H-D M AN 1/80 X12 X AN 1/80	The description of the P&A order type. Used only for Supplier Direct shipments.
REF	Reference Identification – Used Only for Supplier Direct Shipments – (O)			
REF01	128	Reference ID Qualifier	H-D M ID 3 X12 M ID 2/3	‘SCA’ Code identifying the Standard Carrier Alpha Code (SCAC).
REF02	127	Reference Identification	H-D M AN 4 X12 X AN 1/30	The abbreviated carrier code assigned by Harley-Davidson for the Supplier Direct shipment . This code is to be entered in the 856, REF TD503. Contact the Supplier Direct Coordinator for additional information.

Detail**LIN Line Item Data – (M)**

LIN01	350	Assigned Identification	H-D O AN 1/20 X12 O AN 1/20	Picklist line item number. Used only for Supplier Direct. This is mandatory for Supplier Direct.
LIN02	235	Product ID Qualifier	H-D M ID 2 X12 M ID 2/2	‘BP’ Code identifying the H-D Buyer Part Number
LIN03	234	H-D Part Number	H-D M AN 1/18 X12 M AN 1/48	Harley-Davidson Part Number
LIN04	235	Product ID Qualifier	H-D X ID 2 X12 X ID 2/2	‘DR’ Code identifying the Drawing Revision Number.
LIN05	234	Drawing Revision Level	H-D X AN 1/4 X12 X AN 1/48	Drawing Revision Number.
LIN06	235	Product ID Qualifier	H-D M ID 2 X12 X ID 2/2	‘PO’ Code identifying the H-D buyers PO.
LIN07	234	Purchase Order Number	H-D M AN 1/15 X12 X AN 1/48	Purchase Order Number of the purchaser, Harley-Davidson.

UIT	Unit of Measure – (M)			
UIT01	355	Unit of Measure Code	H-D M ID 2 X12 M ID 2/2	Unit of measure. See Appendix D, Unit of Measure Codes, for valid Harley-Davidson codes.
PKG	Marking, Packaging, Loading – Used only for Supplier Direct shipments – May be used multiple times – (O)			
PKG01	349	Item Description Type	H-D M ID 1/1 X12 X ID 1/1	“F” Code identifying Free Form to describe specific part number instructions. Used only for Supplier Direct shipments.
PKG05	352	Line Item Description	H-D M AN 1/80 X12 X AN 1/80	Part number instructions. Used Only for Supplier Direct shipments.
REF	Delivery Location – (O)			
REF01	128	Reference ID Qualifier	H-D M ID 2 X12 M ID 2/2	‘DK’ Code identifying dock number.
REF02	127	Reference Identification	H-D M AN 1/3 X12 X AN 1/30	The customer dock number as confirmed through release, M.A.N. card, cell or other confirmation.
REF	Delivery Location – (O)			
REF01	128	Reference ID Qualifier	H-D M ID 2 X12 M ID 2/3	‘LF’ Code identifying the assembly line feed location or the deliver to internal stocking location.
REF02	127	Reference Identification	H-D M AN 1/12 X12 X AN 1/30	The assembly line consuming location, also known as internal delivery location and line feed location, as identified by Harley-Davidson. It may be the release, M.A.N. card, cell or other confirmed number.
				This data must also appear on the shipment’s Container and Master (B-10) labels as well as in the EDI 856.

FST	Forecast Schedule – (M)				
FST01	380	Total Part Quantity	H-D M R 1/7 X12 M R 1/15	Total requirements. All JIT requirements must be totaled here.	
FST02	680	Forecast Qualifier	H-D M ID 1 X12 M ID 1/1	‘C’ Code identifying Firm	
FST03	681	Forecast Timing Qualifier	H-D M ID 1 X12 M ID 1/1	‘D’ Code identifying Discrete	
FST04	373	Date	H-D M DT 8 X12 M DT 8/8	Date (including the century) when parts must be shipped.	
JIT	Just-In-Time Schedule – May Be Used – (O)				
JIT01	380	Quantity Required	H-D M R 1/7 X12 M R 1/15	Total of JIT quantities must accumulate to FST segment. This is required for requirements more frequent than daily.	
JIT02	337	Time of Requirement	H-D M TM 4/8 X 12 M TM 4/8	HHMM – 24-hour time clock when parts are required.	
TD1	Carrier Details – (O)				
TD101	103	Packaging Code	H-D M AN 5 X12 O AN 3/5	‘CNT90’ Code identifying the container standard (Standard Pack) or CPQ (Container Package Quantity) as identified by Harley-Davidson.	
TD102	80	Lading Quantity	H-D M NO 1/7 X12 X NO 1/7	The standard pack quantity or CPQ (Container Package Quantity) for each part number as identified by Harley-Davidson.	
TD105	79	Lading Description	H-D M AN 1/50 X12 O AN 1/50	The description of the container standard for the part number assigned by Harley-Davidson for the standard pack quantity or CPQ identified in the TD102.	

Summary**CTT Transaction Totals – (M)**

CTT01	354	Number of Line Items	H-D M NO 1/6 X12 M NO 1/6	Total number of line (LIN segments) items in the transaction set.
CTT02	347	Hash Total	H-D M R 1/10 X12 O R 1/10	Sum of 380 data element FST01. Please note that when the total of all FST01 equal zero (0), this element will not be sent.

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 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 control number in ST02.

862 Loop Structure

<u>Segment</u>	<u>Description</u>	<u>Max. Usage</u> <u>Segment*</u>
Header		
BSS	BEG Segment – Ship Schedule	1
N1	SI – Issuer	1
N1	ST – Ship To	1
N1	SU – Supplier/Manufacturer	1
N3	Address Information	2
REF	CO – Customer Order Type	1
REF	Identification (ONLY Supplier Direct shipments)	1
Detail		
LIN	Line Item	1
UIT	Unit of Measure	1
PKG <input type="checkbox"/>	Marking, Packaging, Loading	>1
REF	DK – Dock Number	1
REF	LF – Assembly Line Location	1
FST	Forecast Schedule	1
JIT <input type="checkbox"/>	Just-In-Time Schedule	1
TD1	Carrier Details	1
Summary		
CTT	Transaction Totals	1

Notes:

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

Loop that repeats multiple times

Raw Data Example of OE 862

ST-862-000022025μ
BSS-00-029812-20031125-SH-20031126-20031126-029812-Aμ
N1-SI-1-062629324μ
N1-ST-92-7178521878μ
N1-SU-92-TESTμ
LIN-BP-61165-89-DR-A-PO-R-0000002961μ
UIT-EAμ
REF-DK-D1μ
REF-LF-Q4 FRB17-31μ
FST-385-C-D-20031126μ
TD1-CNT90-55-RETURNABLEμ
LIN-BP-61166-93A-PO-R-0000002960μ
UIT-EAμ
REF-DK-D1μ
REF-LF-DY FRE14-13μ
FST-200-C-D-20031126μ
TD1-CNT90-100-ROPAKμ
LIN-BP-90817-96A-PO-R-0000005626μ
UIT-EAμ
REF-DK-D1μ
REF-LF-DY COLF13μ
FST-40-C-D-20031126μ
TD1-CNT90-10-RACKμ
CTT-3-625μ
SE-25-000022025μ

Raw Data Example Supplier Direct 862

ST-862-000000356μ
BSS-00-7965959-20031121-SH-20031121-20031121-7965959-AAAμ
N1-SI-92-4143434553μ
N1-ST-PA H-D Dealership-92-0018μ
N3-1425 Eden Road-York, PA 17402μ
N1-SU-92-TESTμ
REF-CO-EP-European - Premiumμ
REF-SCA-UPSSμ
LIN-1-BP-99816-1040μ
UIT-EAμ
PKG-F-Stan's Harley-Davidsonμ
PKG-F-4425 W. Saile Driveμ
PKG-F-Batavia, NY 14020μ
PKG-F-Phone (585) 343-9598μ
PKG-F-Fax (585) 343-5804μ
FST-14-C-D-20031121μ
LIN-2-BP-99816-2050μ
UIT-EAμ
FST-14-C-D-20031121μ
LIN-3-BP-99816-50μ
UIT-EAμ
PKG-F-Down Motorcycleμ
FST-14-C-D-20031121μ
CTT-3-42μ
SE-25-000000356μ