EDI Implementation Guide

September 2024

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Usage Convention

A Functional Acknowledgement transaction set (997) is required by ANSI rules for data interchange. The receiver issues the 997 to the original sender of the EDI transaction to indicate the status of a transmission with respect to standards adherence. It provides a positive indication that all transactions transmitted were received and if errors exist, to identify the segment and rejected elements and state the reason for error. The H-D standard is highlighted when it differs from the ANSI standard.

Harley-Davidson requires a 997 to be sent whenever a supplier receives material requirements (i.e. 830, 850, or 862). H-D will not send a 997 to acknowledge receipt of a 997.

When Harley-Davidson receives an ASN (856), a 997 will be immediately sent to the supplier. The 997 indicates that the ASN was received into the Harley-Davidson EDI system—it is not a guarantee that the ASN meets the content standards and processes through to the other H-D systems.

After an acknowledgement is sent, the ASN data is validated for accuracy. If during the validation process, data is identified as incorrect, the ASN will be rejected and will not be forwarded to the intended Harley-Davidson site. The supplier will be notified of the ASN rejection via an ASN Edit Report email that is sent to individuals set up as ASN contacts in H-DSN. For additional information regarding the ASN Edit Report email, please reference the ASN Errors Troubleshooting Guide that is posted on H-DSN's Electronic Commerce web page.

When an ASN is rejected during the data validation process, the Harley-Davidson purchasing representative and receiving has no visibility to it and it appears as if no ASN was sent. In order for the supplier to be given credit for sending an ASN, all errors must be corrected on the ASN and it must be resent to H-D. Please reference the ASN Errors Troubleshooting guide for assistance in correcting ASN errors.

ANSI X.12 Version

H-D will only accept ANSI X.12, Version 004010. No other versions of the ANSI X.12 will be accepted.

H-D EDI Qualifier and ID

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

Interchange ID Qualifier (ISA05):	01
Interchange Receiver ID (ISA06):	062629324
Application Sender's Code (GS02):	062629324

Transaction Delimiters

Repetition Separator (ISA11) = "U"
Component Element Separator (ISA16) = ">"
Data Element Separator = ¬ or Hex 5F
Segment Terminator = " " or Hex 15

Attributes

Data Element Table

The values in this table may appear in the Attributes Req column in the standard.

Abbreviation	Name	Description
M	Mandatory	Data element must be used if the segment is used.
O	Optional	Data element may be used at the discretion of the sending party.
X	Relational	Data element has a relationship with another data element within the segment. If one data element is used, then the other data element must also be used.

Element Type Table

The values in this table may appear in the Attributes Type column in the following standard.

Abbreviation	Name	Description
ID	Identifier	The value that is placed in this element is selected from a predefined list that is created and maintained by the ASC X12 Committee.
AN	String	A sequence of any letters, digits, spaces, and/or special characters
DT	Date	CCYYMMDD
TM	Time	HHMMSSDD in a 24 hour clock
Nn	Numeric	The numeric value is an implied decimal format where "n" indicates the number of places to the right of the decimal point. The decimal point is not transmitted. For negative values, a leading minus sign is used. For example: N2 is the value of - 12.54 and it will be transmitted at "-1254".
R	Decimal	The decimal point of a numeric value is optional for integer values, but required for fractional values. For negative values, a leading minus sign is used. For example: A format of R for the value of -12.54 will be transmitted as "-12.54".

Minimum / Maximum

The following standard will display values in the Attributes Min/Max column. The value before the slash (/) represents the minimum characters for the data element. The value after the slash (/) represents the maximum characters for the data element. For example:

- 2/2 represents a fixed length of 2 characters
- 4/9 represents a minimum length of 4 characters and a maximum length of 9

The following standard documents the H-D attributes as well as the ANSI X12 attributes. In order to successfully receive this document, the receiver's EDI system must be set up to receive the H-D attributes.

997   Functional Acknowledgement

Functional Group ID = **FA**

DATA SEGMENT SEQUENCE

Interchange Envelope

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
ISA	Interchange Control Header	Mandatory	1	

Functional Group Envelope

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
GS	Functional Group Header	Mandatory	1	

Header

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
AK1	Functional Group Response Header	Mandatory	1	

Detail

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
Loop ID – AK2				Multiple Times
AK2	Transaction Set Response Header	Mandatory	1	
AK5	Transaction Set Response Trailer	Mandatory	1	
End of Loop ID – AK2				

Summa

Seg ID.	Name	Req. Des.	Max Usage Segment	Loop Repeat
AK9	Functional Group Response Trailer	Mandatory	1	
SE	Transaction Set Trailer	Mandatory	1	

Functional Group Envelope

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
GE	Functional Group Trailer	Mandatory	1	

Interchange Envelope

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
IEA	Interchange Control Trailer	Mandatory	1	

Segment: ISA   Interchange Control Header

Level: Interchange Envelope

Data Element Summary

Ref Des.	Data Element	Element Name		Req	Type	Min/Max
				Attributes		
ISA01	101	Authorization Information Qualifier	H-D:	M	ID	2/2
		Field Content:	X12:	M	ID	2/2
		Code Name				
		00 No Authorization Information Present				
ISA02	102	Authorization Information	HD:	M	AN	10/10
		Field Content: Fill with blank spaces	X12:	M	AN	10/10
ISA03	103	Security Information Qualifier	HD:	M	ID	2/2
		Field Content:	X12:	M	ID	2/2
		Code Name				
		00 No Authorization Information Present				
ISA04	104	Security Information	HD:	M	AN	10/110
		Field Content: Fill with 10 blank spaces	X12:	M	AN	10/110
ISA05	105	Interchange ID Qualifier	HD:	M	ID	2/2
		Field Content: 01	X12:	M	ID	2/2
ISA06	106	Interchange Sender ID	HD:	M	AN	15/15
		Field Content: 062629324 plus blank spaces	X12:	M	AN	15/15
ISA07	105	Interchange ID Qualifier	HD:	M	ID	2/2
		Field Content: Supplier's ID Qualifier	X12:	M	ID	2/2
ISA08	107	Interchange Receiver ID	HD:	M	AN	15/15
		Field Content: Supplier's EDI ID	X12:	M	AN	15/15
ISA09	108	Interchange Date	HD:	M	DT	6/6
		Field Content: YYMMDD	X12:	M	DT	6/6
ISA10	109	Interchange Time	HD:	M	TM	4/4
		Field Content: HHMM	X12:	M	TM	4/4
ISA11	165	Repetition Separator	HD:	M	ID	1/1
		Field Content: U	X12:	M	ID	1/1
		Also known as Hex E4				
ISA12	I11	Interchange Control Version Number	HD:	M	ID	5/5
		Field Content: 00401	X12:	M	ID	5/5
ISA13	I12	Interchange Control Number	HD:	M	N0	9/99
		Field Content: A control number assigned by the H-D translator, which matches to the IEA02	X12:	M	N0	9/99
ISA14	I13	Acknowledgment Requested	HD:	M	ID	1/1
		Field Content:	X12:	M	ID	1/1
		Code Name				
		0 No Acknowledgment Requested				

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
ISA15	I14	Usage Indicator	HD:	M	ID	1/1
		Field Content:	X12:	M	ID	1/1
		Code Name				
		P Production Data				
ISA16	I15	Component Element Separator	HD:	M	ID	1/1
		Field Content: >	X12:	M	ID	1/1

Segment: GS   Functional Group Header

Level: Functional Envelope

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
GS01	479	Functional Identifier Code	HD:	M	ID	2/2
		Field Content:	X12:	M	ID	2/2
		Code Name				
		AK Functional Acknowledgement				
GS02	142	Application Sender's Code	HD:	M	AN	2/15
		Field Content: 062629324	X12:	M	AN	2/15
GS03	124	Application Receiver's Code	HD:	M	AN	2/15
		Field Content: Supplier's EDI ID	X12:	M	AN	2/15
GS04	373	Date	HD:	M	DT	8/8
		Field Content: CCYYMMDD	X12:	M	DT	8/8
GS05	337	Time	HD:	M	TM	4/8
		Field Content: 24-hour clock, HHMM	X12:	M	TM	4/8
GS06	28	Group Control Number	HD:	M	N0	1/9
		Field Content: A group control number assigned by the H-D translator, which matches to the GE02	X12:	M	N0	1/9
GS07	455	Responsible Agency Code	HD:	M	ID	1/2
		Field Content:	X12:	M	ID	1/2
		Code Name				
		X Accredited Standards Committee X12				
GS08	480	Version / Release / Industry Identifier Code	HD:	M	AN	1/12
		Field Content: 004010	X12:	M	AN	1/12

Segment: ST   Transaction Set Header

Level: Header

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
ST01	143	Transaction Set Identification Code	H-D:	M	ID	3/3
		Field Content: 997	X12:	M	ID	3/3
ST02	329	Transaction Set Control Number	H-D:	M	AN	4/9
		Field Content: Identifying control number assigned by the H-D translator for the 997. This value must match the value in the SE02	X12:	M	AN	4/9

Segment: AK1   Functional Group Response Header

Level: Header

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
AK101	479	Functional ID Code	H-D:	M	ID	2/2
		Field Content: Must match function group identifier GS01 of the group being acknowledged.	X12:	M	ID	2/2
AK102	28	Data Interchange Control Number	H-D:	M	N	1/9
		Field Content: Must match GS06 of group being acknowledged.	X-12:	M	N	1/9

Segment: AK2   Transaction Set Response Header

Level: Detail

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
AK201	143	Transaction Set ID	H-D:	M	ID	3/3
		Field Content: Must match ST01 of transaction being acknowledged.	X-12:	M	ID	3/3
AK202	329	Transaction Set Control Number	H-D:	M	N	1/9
		Field Content: Must match ST02 of transaction being acknowledged.	X-12:	M	N	1/9

Segment: **AK5** **Transaction Set Response Trailer**

Level: Detail

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
AK501	717	Set Acknowledgement Code	H-D:	M	ID	1/1
		Field Content:	X-12:	M	ID	1/1

Code Name

A	Accepted
E	Errors
R	Rejected

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
AK502	718	Transaction Set Note	H-D:	O	ID	1/3
		Field Content:	X-12:	O	ID	1/3

Code Name

1	Transaction set type is not supported
2	Transaction set trailer is missing
3	Transaction set control number in the header and trailer do not match
4	The number of included segments does not match the actual count
5	One or more segments are in error

Segment: **AK9** **Functional Group Response Trailer**

Level: Summary

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
AK901	715	Group Acknowledgement Code	H-D:	M	ID	1/1
		Field Content:	X-12:	M	ID	1/1

Code Name

A	Accepted
E	Errors
R	Rejected

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
AK902	97	Number of Included Sets	H-D:	M	N	1/6
		Field Content: Value equal to the number of included sets.	X-12:	M	N	1/6
AK903	123	Number of Received Sets	H-D:	M	N	1/6
		Field Content: Value equal to the number of received sets.	X-12:	M	N	1/6
AK904	2	Number of Accepted Sets	H-D:	M	N	1/6
		Field Content: Value equal to the number of accepted sets.	X-12:	M	N	1/6

Segment: SE Transaction Set Trailer

Level: Summary

Data Element Summary

Ref Des.	Data Element	Element Name		Req	Type	Min/Max
					Attributes	
SE01	96	Number of Included Segments	H-D:	M	NO	1/10
		Field Content: Total number of segments included in this transaction, including the ST and SE segments.	X12:	M	NO	1/10
SE02	329	Transaction Set Control Number	H-D:	M	AN	4/9
		Field Content: Identifying control number assigned by the H-D translator for the 862. This value must match the value in the ST02	X12:	M	AN	4/9

Segment: GE Functional Group Trailer

Level: Functional Envelope

Data Element Summary

Ref Des.	Data Element	Element Name		Req	Type	Min/Max
					Attributes	
GE01	97	Number of Transaction Sets Included	HD:	M	N0	1/6
		Field Content: The total number of transaction sets included in the functional group	X12:	M	N0	1/6
GE02	28	Group Control Number	HD:	M	N0	1/9
		Field Content: A group control number assigned by the H-D translator, which matches to the GS06	X12:	M	N0	1/9

Segment: IEA Interchange Control Trailer

Level: Interchange Envelope

Data Element Summary

Ref Des.	Data Element	Element Name		Req	Type	Min/Max
					Attributes	
IEA01	I16	Number of Included Functional Groups	H-D:	M	N0	1/5
		Field Content: A count of the number of functional groups included in an interchange	X12:	M	N0	1/5
IEA02	I12	Interchange Control Number	HD:	M	N0	9/9
		Field Content: A control number assigned by the H-D translator, which matches to the ISA13	X12:	M	N0	9/9

Raw Data Example with AK2 Loop

ISA¬00¬ ¬00¬ ¬01¬89362760 ¬01¬062629324 ¬100416¬
1250¬U¬00401¬000018767¬0¬P¬>µ
GS¬FA¬89362760¬062629324¬20100416¬1250¬19142¬X¬004010µ
ST¬997¬4887µ
AK1¬SS¬13418µ
AK2¬862¬000101112µ
AK5¬Aµ
AK2¬862¬000101113µ
AK5¬Aµ
AK9¬A¬2¬2¬2µ
SE¬8¬4887µ
GE¬1¬19142µ
IEA¬1¬000018767µ

Raw Data Example without AK2 Loop

ISA¬00¬ ¬00¬ ¬01¬89362760 ¬01¬062629324 ¬100416¬
1136¬U¬00401¬000018766¬0¬P¬>µ
GS¬FA¬89362760¬062629324¬20100416¬1136¬19141¬X¬004010µ
ST¬997¬4886µ
AK1¬SS¬13417µ
AK2¬862¬000101111µ
AK5¬Aµ
AK9¬A¬1¬1¬1µ
SE¬6¬4886µ
GE¬1¬19141µ
IEA¬1¬000018766µ

Document Update

January 2011 Update

No changes were made to the standard. Republished document to indicate this is the current standard.

September 2024 Update

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