



EDI Implementation Guide

January 2013

TRANSACTION SET

866

KanBan JIT

ANSI X.12

Version 004010

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Usage Convention

This transaction set can be used to provide for the receiver of goods to request the order in which shipments of goods arrive at one or more locations, or to specify the order in which goods are to be unloaded from the conveyance method , or both. This specifies the sequence in which the goods are to enter the materials handling process, or are to be consumed in the production process, or both. This transaction set shall not be used to authorize labor, materials, or other resources. This transaction set shall not be used to revise any product characteristics specification.

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 so to receive the Sequenced JIT transaction set from H-D.

Interchange ID Qualifier (ISA07):	01
Interchange Receiver ID (ISA08):	062629324
Application Sender's Code (GS03):	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

866 Sequenced JIT

Functional Group ID = **SQ**

DATA SEGMENT SEQUENCE

Interchange Envelope

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
ISA	Interchange Control Header	HD: Mandatory X12:Mandatory	1	

Functional Group Envelope

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
GS	Functional Group Header	HD: Mandatory X12:Mandatory	1	

Header

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
ST	Transaction Set Header	HD: Mandatory X12:Mandatory	1	
BSS	Beginning Segment for Shipping Schedule/JIT Sequence	HD: Mandatory X12:Mandatory	1	

Detail N1

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
Loop ID – N1				Multiple Times
N1	Name	HD: Mandatory X12:Mandatory	>1	
End of Loop ID – N1				

Detail DTM

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
Loop ID – DTM				Up to 100 times
DTM	Date/Time/Period	HD:Mandatory X12:Mandatoty	1	
UIT	Unit Detail	HD:Mandatory X12:Optional	1	
QTY	Quantity	HD:Mandatory X12: Optional	1	
REF	Reference Numbers	HD: Optional X12:Optional	>1	

Detail Item

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
Loop ID – LIN				Multiple Times
LIN	Item Identification	HD:Mandatory X12:Optional	1	
End of Loop ID – LIN				
End of Loop ID - DTM				

Summary

Seg ID.	Name	Req. Des.	Max Usage Segment	Loop Repeat
CTT	Transaction Total	HD: Mandatory X12:Mandatory	1	
SE	Transaction Set Trailer	HD: Mandatory X12:Mandatory	1	

Functional Group Envelope

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
GE	Functional Group Trailer	HD:Mandatory X12:Mandatory	1	

Interchange Envelope

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
IEA	Interchange Control Trailer	HD:Mandatory X12:Mandatory	1	

Segment: ISA Interchange Control Header
Level: Interchange Envelope Mandatory

Data Element Summary

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

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
		<u>Code</u> <u>Name</u>				
		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 Mandatory

Data Element Summary

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
GS01	479	Functional Identifier Code	HD:	M	ID 2/2
		Field Content:	X12:	M	ID 2/2
		<u>Code</u> <u>Name</u>			
		OW KanBan 866			
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
		<u>Code</u> <u>Name</u>			
		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 Mandatory

Data Element Summary

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
ST01	143	Transaction Set Identifier Code	H-D:	M	ID 3/3
		Field Content: 866	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 866. This value must match the value in the SE02.	X12:	M	AN 4/9

**Segment: BSS Beginning Segment for Shipping
Schedule/Kanban JIT**

Level: Header(M)

Data Element Summary

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
BSS01	353	Transaction Set Purpose Code Field Content: One of the following codes: <u>Code</u> <u>Name</u> 00 Original shipping notice	H-D: M X12: M	ID ID	2/2 2/2
BSS02	396	Reference Number Kanban JIT Call Number	H-D: M X12: M	AN AN	10/10 1/30
BSS03	373	Date Field Content: CCYYMMDD Schedule issue date	H-D: M X12: M	DT DT	8/8 8/8
BSS04	675	Schedule Type Qualifier Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast BB - Customer Production (Consumption) Based	H-D: M X12: M	ID ID	2/2 2/2
BSS05	373	Date Field Content: CCYYMMDD First Day of Schedule	H-D: M X12: M	DT DT	8/8 8/8
BSS06	373	Date Field Content: CCYYMMDD Last Day of Schedule	H-D: M X12: M	DT DT	8/8 8/8
BSS08	396	Reference Number Kanban JIT Call Number	H-D: M X12: M	AN AN	10/10 1/30
BSS11	676	Schedule Quantity Qualifier Code identifying the type of quantities used when defining a schedule or forecast. <u>Code</u> <u>Name</u> A Actual Quantities	H-D: M X12: O	ID ID	1/1 1/1

Segment: N1 Name
Level: Header(M)

Data Element Summary

Ref	Data		Attributes		
Des.	Element	Element Name	Req	Type	Min/Max
N101	98	Entity Identifier Code Code identifying an organizational entity or a physical location. <u>Code</u> <u>Name</u> SF Ship From ST Ship To	H-D: M X12: M	ID ID	2/2 2/3
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for identification code 92 - Assigned by Buyer or Buyer's Agent	H-D: X X12: X	ID ID	1/2 1/2
N104	67	Identification Code Code identifying a party. This is will the code assigned by Harley-Davidson	H-D: X X12: X	AN AN	2/10 2/80

Segment: DTM Date/Time/Period
Level: Header(M)

Data Element Summary

Ref	Data		Attributes		
Des.	Element	Element Name	Req	Type	Min/Max
DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time	H-D: M X12: M	ID ID	3/3 3/3
DTM02	373	Date Planned Requirements Date (CCYYMMDD) The date the material is need for assembly	H-D: X X12: X	DT DT	8/8 8/8
DTM03	337	Time Planned Requirements time expressed in 24 hour clock (HHMMSS) The time the material is need for assembly	H-D: X X12: X	TM TM	6/6 4/8

Segment: UIT Unit Detail
Level: Header(M)

Data Element Summary

Ref	Data		Attributes		
Des.	Element	Element Name	Req	Type	Min/Max
UIT01	355	Unit or Basis for Measurement Code	H-D: M X12: M	ID ID	2/2 2/2

Segment: QTY Quantity
Level: Header(M)

Data Element Summary

Ref	Data		Attributes			
	Des.	Element	Element Name	Req	Type	Min/Max
QTY01	673	Quantity Qualifier Code identifying the type of quantities. 01 - is for actual quantities 02 - is for cumulative quantities	H-D:	M	ID	2/2
			X12:	M	ID	2/2
QTY02	380	Quantity Numeric value of quantity	H-D:	X	R	1/15
			X12:	X	R	1/15

Segment: REF Reference Numbers
Level: Header(M)

Data Element Summary

Ref	Data		Attributes			
	Des.	Element	Element Name	Req	Type	Min/Max
REF01	128	Reference Number Qualifier Code qualifying the Reference Number. LF - Assembly Line Feed Location	H-D:	M	ID	2/3
			X12:	M	ID	2/3
REF02	127	Reference Number Reference number or identification number as defined for a particular transaction Set, or as specified by the Reference Number Qualifier.	H-D:	X	AN	1/30
			X12:	X	ANT	1/30

Segment: LIN Line Detail
Level: Header(M)

Data Element Summary

Ref	Data		Attributes			
	Des.	Element	Element Name	Req	Type	Min/Max
LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) BP - Buyer's Part Number	H-D:	M	ID	2/2
			X12:	M	ID	2/2
LIN03	234	Product/Service ID Identifying number for a product or service. Harley-Davidson's Part number	H-D:	M	AN	1/48
			X12:	M	AN	1/48
LIN06	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive	H-D:	X	ID	2/2
			X12:	X	ID	2/2

Ref Des.	Data Element	Element Name number used in Product/Service ID (234) <u>Code</u> <u>Name</u> OM Scheduling Agreement Number	Attributes			
			Req	Type	Min/Max	
LIN07	234	Product/Service ID Scheduling Agreement Number	H-D: X	AN	1/48	
			X12: X	AN	1/48	

Segment: CTT Transaction Totals
Level: Summary(M)

Data Element Summary

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
CTT01	354	Number of Line Items	H-D: M	N0	1/6
		Field Content: Total number of DTM segments in this transaction	X12: M	N0	1/6
CTT02	347	Hash Total	H-D: M	R	1/10
		Field Content: Sum of all QTY quantity fields	X12: M	R	1/10

Segment: SE Transaction Set Trailer
Level: Summary(M)

Data Element Summary

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
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(M)

Data Element Summary

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

Segment: IEA Interchange Control Trailer
Level: Interchange Envelope(M)

Data Element Summary

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

Data Samples

866

ISA+00+ +00+ +ZZ+062629324HDT +ZZ+062629324HDT
+120514+1528+U+00401+000000910+0+T+> '
GS+OW+ZZ+062629324HDT+20120514+1528+910+X+004010 '
ST+866+000000228 '
BSS+00+0000000125+20120514+BB+20120514+20120514++0000000125+++A '
N1+SF++92+0000213963 '
N1+ST++92+1001 '
DTM+002+20120516+000000 '
UIT+EA '
QTY+01+300 '
REF+LF+FFND '
LIN++BP+37469ZZ+++ON+5500005579 '
CTT+1 '
SE+11+000000228 '
GE+1+910 '
IEA+1+000000910 '

Documentation Updates

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