



# EDI Implementation Guide for SAP ASN

September 2011, Revision 1

TRANSACTION SET

# 856

Advanced Ship Notice

ANSI X.12

Version 004010

## Table of Contents

Usage Convention.....	1
ANSI X.12 Version.....	2
H-D EDI Qualifier and ID .....	2
Attributes.....	3
Data Element Table.....	3
Element Type Table .....	3
Minimum / Maximum.....	4
856 Advanced Ship Notice .....	5
Data Example 1 – Two Pallets Same P/N, One Pallet Mixed P/Ns.....	24
Data Example 2 – Three Pallets Each With One P/N.....	25
Data Example 3 – Loose Boxes .....	26
Data Sample 4 – ASN with Job Number from EDI 866.....	27
Testing Requirements .....	27
Document Updates.....	28

## Usage Convention

A Ship Notice/Manifest transaction set (856), also known as an Advance Ship Notice (ASN), lists the contents of a shipment of goods as well as additional information relating to the shipment. The information enables a more timely, accurate, and efficient business process in support of our Just-In-Time (JIT) manufacturing strategy. **The H-D standard is highlighted when it differs from the ANSI standard.** These standards consider the AIAG guidelines.

When H-D receives the ASN, the Scheduler Issuer (N1 SI) and the Ship To Location (N1 ST) segments are read to determine the plant and location within the Harley-Davidson Corporation that the ASN applies to. For a list of valid codes refer to Appendix A “Plant / Ship To Locations Codes”.

**The ASN number (BSN02 segment) used in this transaction must correspond to the number assigned to the packing list and invoices.** This is the “license plate” that ties these documents together to ensure timely payment to suppliers.

This electronic transaction set should be sent within established time frames. Preference is that when the purchased material leaves the shippers dock this document would be sent. The established time frames are as followed:

- Local or same day delivery –sent immediately when material is shipped from supplier dock.
- Transit time of one day – within 30 minutes of shipment departure.
- Transit time of two or more days – within 2 hours of shipment departure.

The timelines of the information about in-transit materials becomes more important as inventories are reduced to achieve Just-In-Time (JIT) goals. Any deviation from these required times must be approved in advance by the appropriate buyer.

Each shipment must be accompanied by a separate ASN. Therefore, the HL at the shipment level will always be 1.

## **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 that H-D will receive the Advanced Ship Notice transaction set from the supplier.

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

## 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

# 856 Advanced Ship Notice

Functional Group ID = SH

## 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
ST	Transaction Set Header	Mandatory	1	
BSN	Beginning Segment for Ship Notice	Mandatory	1	
DTM	Date/Time Reference	Mandatory	1	
HL	Hierarchical Level	Mandatory	1	
MEA	Measurement	Mandatory	1	
TD1	Carrier Detail - Packaging	Mandatory	20	
TD4	Carrier Details - Hazardous Materials	Optional	1	
TD5	Carrier Details – SCAC	Mandatory	1	
REF	Reference Identification – Bill Of Lading	Mandatory	>1	
REF	Reference Identification – Freight Reference Number	Mandatory	>1	
N1	Name – Shipping Schedule / Material Release Issuer	Mandatory	1	
N1	Name – Ship To Location	Mandatory	1	
N1	Name – Supplier / Manufacturer	Mandatory	1	
REF	Reference Identification – Dock	Optional	1	
SAC	Service, Allowance, or Charge Information	Optional	1	

### Detail - TARE/Pallet

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
Loop ID – HL		Optional		Multiple Times
HL	Hierarchical Level – TARE/Pallet	Mandatory	1	
REF	Reference Identification – Master Serial Number/Handling Unit Number (Higher Level HU)	Mandatory	1	
PAL	PAL - Type & Load Characteristics (Higher Level HU)	Mandatory	1	

### Detail - Item

Seg ID.	Name	Req. Des.	Max Use	Loop Repeat
Loop ID – HL		Mandatory		Multiple Times
HL	Hierarchical Level - Item	Mandatory	1	
LIN	Item Identification	Mandatory	1	
SN1	Item Detail	Mandatory	1	
REF	Reference Identification – Line Feed	Optional	1	
REF	Reference Identification – Packing List	Optional	1	
REF	Reference Identification – Release ID	Mandatory	1	
REF	Reference Identification – Job Number	Optional	1	
CLD	Load Detail	Mandatory	>1	
REF	Reference Identification – Container Serial Number	Mandatory	1	
End of Loop ID – HL-Item				
End of Loop ID – HL-TARE/Pallet				

### Summary

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

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

**Segment:**            **GS**            **Functional Group Header**  
**Level:**                Functional Envelope

### Data Element Summary

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

**Segment: ST Transaction Set Header**  
Level: Header

**Data Element Summary**

Ref	Data		Attributes		
Des.	Element	Element Name	Req	Type	Min/Max
ST01	143	Transaction Set Identifier Code <b>Field Content: 856</b>	H-D: M X12: M	ID ID	3/3 3/3
ST02	329	Transaction Set Control Number <b>Field Content: Identifying control number assigned by the H-D translator for the 850. This value must match the value in the SE02.</b>	H-D: M X12: M	AN AN	4/9 4/9

**Segment: BSN Beginning Segment for Ship Notice**  
Level: Header

**Data Element Summary**

Ref	Data		Attributes		
Des.	Element	Element Name	Req	Type	Min/Max
BSN01	353	Transaction Set Purpose Code <b>Field Content: One of the following codes:</b> <b>Code Name</b> <b>00 Original shipping notice</b> <b>05 Replacement of the original ship notice</b>	H-D: M X12: M	ID ID	2/2 2/2
BSN02	396	Shipment Identification <b>Field Content: ASN Number / Shipment ID assigned by sender. This value can not be repeated within 24 months.</b>  <b>Note: ASNs to Supplier Direct (N1 SI 04 equals 4143434553) must have an ASN number equal to the picklist being shipped against. The ASN's BSN 02 must equal the value in the 862's BSS 02.</b>	H-D: M X12: M	AN AN	1/8 2/30
BSN03	373	Date Created <b>Field Content: CCYYMMDD</b>	H-D: M X12: M	DT DT	8/8 8/8
BSN04	337	Time Created <b>Field Content: HHMM</b>	H-D: M X12: M	TM TM	4/4 4/8

**Segment: DTM Date / Time Reference**  
Level: Header

**Data Element Summary**

Ref	Data		Attributes		
Des.	Element	Element Name	Req	Type	Min/Max
DTM01	374	Date/Time Qualifier <b>Field Content: 011 (Date / Time of Shipment)</b>	H-D: M X12: M	ID ID	3/3 3/3
DTM02	373	Date Shipped <b>Field Content: CCYYMMDD</b>	H-D: M X12: X	DT DT	8/8 8/8
DTM03	337	Time Shipped <b>Field Content: HHMM</b>	H-D: M X12: X	TM TM	4/4 4/8

**Segment: HL Hierarchical Level**  
Level: Header

**Data Element Summary**

Ref	Data		Attributes		
Des.	Element	Element Name	Req	Type	Min/Max
HL01	628	Hierarchical ID Number <b>Field Content: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure. Use 1 at the shipment level. Each shipment must be accompanied by a separate ASN. Therefore, the HL will always be 1.</b>	H-D: M X12: M	AN AN	1/12 1/12
HL03	735	Hierarchical Level Code <b>Field Content: S (Shipment)</b>	H-D: M X12: M	ID ID	1/1 1/2

**Segment: MEA Measurement**  
Level: Header

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
MEA01	737	Measurement Ref. ID Code <b>Field Content: PD (Physical Dimensions)</b>	H-D: M X12: O	ID ID	2/2 2/2
MEA02	738	Measurement Qualifier <b>Field Content: G (Gross Weight)</b>	H-D: M X12: O	ID ID	1/2 1/3
MEA03	739	Measurement Value <b>Field Content: Gross weight in whole number—no decimal.</b>	H-D: M X12: X	R R	1/6 1/20
MEA04	355	Unit of Measure <b>Field Content: LB (Pounds)</b>	H-D: M X12: X	ID ID	2/2 2/2

**Segment: TD1 Carrier Details - Packaging**  
Level: Header

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
TD101	103	Packaging Code <b>Field Content: Packing Code, See Appendix B, H-D Packaging Codes</b>	H-D: M X12: O	AN AN	3/5 3/5
TD102	80	Lading Quantity <b>Field Content: Quantity of each packaging code</b>	H-D: M X12: X	N0 N0	1/7 1/7

**Segment: TD4 Carrier Details – Hazardous Material**  
Level: Header

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
TD401	133	Special Handling Code <b>Field Content: 152 element specifying special transportation handling instructions. Use X12 standard code that applies.</b>	H-D: M X12: M	ID ID	2/3 2/3
TD402	66	Hazardous Material Code qualifier <b>Field Content: D (Hazardous Material)</b>	H-D: X X12: X	ID ID	1/1 1/1
TD403	67	Hazardous Material Class Code <b>Field Content: 209 element specifying the kind of hazard for the material. Use 209 element that applies</b>	H-D: X X12: X	AN AN	1/4 1/4

**Segment: TD5 Carrier Details - SCAC**  
Level: Header

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
TD501	133	Routing Sequence Code <b>Field Content: B (Origin / Delivery Carrier)</b>	H-D: M X12: O	ID ID	1/1 1/2
TD502	66	Identification Code Qualifier <b>Field Content: One of the following codes:</b> <u>Code</u> <u>Name</u> 2        SCAC ZZ       Other Carrier	H-D: M X12: X	ID ID	1/2 1/2
TD503	67	Identification Code <b>Field Content: SCAC or code representing carrier. See Appendix C, H-D Standard Carrier Alpha Codes, for valid SCACs.</b>	H-D: M X12: X	AN AN	2/40 2/80
TD504	91	Transportation Method/Type Code <b>Field Content: Any valid X12 data element 91 code specifying the method of transportation.</b>	H-D: M X12: X	ID ID	1/2 1/2

**Segment: REF Reference Identification – Bill of Lading**  
Level: Header

**Data Element Summary**

Ref	Data		Attributes		
Des.	Element	Element Name	Req	Type	Min/Max
REF01	128	Reference ID Qualifier <b>Field Content: BM (Bill of Lading Number)</b>	H-D: M X12: M	ID ID	2/3 2/3
REF02	127	Reference Identification (Freight Reference) <b>Field Content: Bill of Lading Number</b>	H-D: M X12: M	AN AN	1/30 1/30

**Segment: REF Reference Identification – Freight Reference**

Level: Header

**Data Element Summary**

Ref	Data		Attributes		
Des.	Element	Element Name	Req	Type	Min/Max
REF01	128	Reference ID Qualifier <b>Field Content: One of the following codes:</b> <b>Code Name</b> CN Pro invoice number / Freight Invoice Number AW Airway invoice number	H-D: M X12: M	ID ID	2/2 2/3
REF02	127	Reference Identification (Freight Reference) <b>Field Content: Freight Reference Number. If the shipment is sent on the supplier's truck, enter ZZZZ.</b>	H-D: M X12: X	AN AN	1/18 1/30

**Segment: N1 Name – Ship Schedule Issuer**  
Level: Header

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
N101	98	Entity Identifier Code <b>Field Content: SI (Schedule Issuer)</b>	H-D: M X12: M	ID	2/2 2/3
N103	66	Identification Code Qualifier <b>Field Content: One of the following codes:</b> <u>Code</u> <u>Name</u> 1 DUNS code for H-D 92 Assigned by H-D	H-D: M X12: X	ID	2/2 1/2
N104	67	Identification Code <b>Field Content: A specific code representing the plant that ordered the material (reference the 862, N1 SI 04 for this code). See Appendix A, Plant / Ship To Location, for valid codes.</b>	H-D: M X12: X	AN	2/10 2/80

**Segment: N1 Name – Ship To Location**  
Level: Header

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
N101	98	Entity Identifier Code <b>Field Content: ST (Ship To)</b>	H-D: M X12: M	ID	2/2 2/3
N103	66	Identification Code Qualifier <b>Field Content: One of the following codes:</b> <u>Code</u> <u>Name</u> 1 DUNS code for H-D 92 Assigned by H-D	H-D: M X12: X	ID	1/2 1/2
N104	67	Identification Code <b>Field Content: A specific code representing the ship to location requiring the ordered material (reference the 862, N1 ST 04 for this code). See Appendix A, Plant / Ship To Location, for valid codes.</b>	H-D: M X12: X	AN	2/10 2/80



**Segment: N1 Name – Supplier / Manufacturer**  
Level: Header

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
N101	98	Entity Identifier Code <b>Field Content: SU (Supplier ID)</b>	H-D: M X12: M	ID ID	2/2 2/3
N103	66	Identification Code Qualifier <b>Field Content: 92 (Assigned by H-D)</b>	H-D: M X12: X	ID ID	2/2 1/2
N104	67	H-D Supplier Code <b>Field Content: H-D Supplier ID</b>	H-D: M X12: X	AN AN	2/13 2/80

**Segment: REF Reference Identification - Dock**  
Level: Header

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
REF01	128	Reference ID Qualifier <b>Field Content: DK (Dock)</b>	H-D: X X12: X	ID AN	2/2 2/3
REF02	127	Reference Identification <b>Field Content: Dock Number</b>	H-D: X X12: X	AN AN	1/3 1/30

**Segment: SAC Service, Allowance, or Charge Information**  
Level: Header

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
SAC01	248	Allowance or Charge Indicator <b>Field Content: C (Charge)</b>	H-D: M X12: M	ID ID	1/1 1/1
SAC02	1300	Service, Allowance or Charge Code <b>Field Content: One of the following codes:</b> <b>Code Name</b> A880 Cancellation Charge C850 Expedited Service Charge D200 Freight Charge to Destination G470 Restocking Charge G760 Set-up Charge G830 Shipping & Handling ZZZZ Mutually Defined	H-D: M X12: X	ID ID	4/4 4/4
SAC05	610	Allowance or Charge Amount <b>Field Content: Total dollar amount of the charge.</b>	H-D: M X12: O	N2 N2	1/15 1/15

**Segment: HL Hierarchical Level - TARE/Pallet**  
Level: Header

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
HL01	628	Hierarchical ID Number <b>Field Content: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure. Use 1 at the TARE level. Each pallet must be accompanied by a new Tare segment.</b>	H-D: M X12: M	AN	1/4 1/4
<p>If this segment is sent in the ASN, then the ASN must also include the REF SE and PAL segments.</p> <p>If a pallet is not included in the shipment, the HL Tare/Pallet, REF SE and PAL segments are not required in the ASN.</p>					
HL02		Hierarchical Parent ID Number <b>Field Content: This number points to the number on the corresponding shipment segment.</b>	H-D: M X12: M	AN	1/4 1/4
HL03	735	Hierarchical Level Code <b>Field Content: T (Tare)</b>	H-D: M X12: M	ID	1/1 1/1

**Segment: REF Reference Identification – Master Serial Number/Handling Unit Number**  
Level: Header

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
REF01	128	Reference ID Qualifier <b>Field Content: If containers (lower level handling units) are shipped on a pallet, or in/on another large container, then this segment is required. Enter SE (Master Label Serial Number/Handling Unit Number)</b>	H-D: X X12: M	ID	2/2 2/2
REF02	127	Reference Identification <b>Field Content: Master Label Serial Number/Handling Unit Number. This number must begin with the supplier's current Supplier ID.</b>	H-D: X X12: M	AN	1/15 1/20
<p>Sample: 12345600000001 Supplier ID is 123456 and the unique number for the Handling Unit is 00000001.</p>					

**Segment: PAL - Type & Load Characteristics**  
Level: Header

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
PAL01	883	Higher Level HU Type Code <b>Field Content: If the ASN contains the REF SE segment (Master Serial Number/Handling Unit Number), then enter a two digit alphanumeric code identifying the type of Higher Level H (i.e a pallet would select Code 1 since it is Hardwood). For example:</b> <u>Code</u> <u>Name</u> 1        Hardwood 7        Slip Sheet 10       Red Plastic  <b>If the ASN does not contain the REF SE segment, then the ASN should not contain the PAL segment.</b>	H-D: X X12: M	AN AN	2/2 2/2
PAL05	395	Net Unit Weight <b>Field Content: The total (gross) weight of the fully loaded Higher Level HU</b>	H-D: X X12: M	NO NO	17 17
PAL06	355	Weight Unit of Measure <b>Field Content: LB (Pounds)</b>	H-D: X X12: M	AN AN	1/3 1/3
PAL15	399	Higher Level HU Category <b>Field Content: Code specifying Higher Level HU exchange instructions</b> <u>Code</u> <u>Name</u> 1        No Exchange/No Return 2        Exchange Higher Level HUs 3        Returnable Higher Level HUs 4        Higher Level HUs to be purchased by customer 5        3rd party Higher Level HU exchange	H-D: X X12: M	NO NO	1/1 1/1

**Segment: HL Hierarchical Level - Item**  
Level: Detail

**Data Element Summary**

Ref	Data		Attributes			
	Des.	Element	Element Name	Req	Type	Min/Max
HL01	628	Hierarchical ID Number	Hierarchical ID Number <b>Field Content: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure starting at 2 and going higher.</b>	H-D: M X12: M	AN	1/12 1/12
HL02	734	Hierarchical Parent ID Number	Hierarchical Parent ID Number <b>Field Content: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.</b>	H-D: M X12: O	AN	1/3 1/12
HL03	735	Hierarchical Level Code	Hierarchical Level Code <b>Field Content: I (Characteristic of a level in a hierarchical structure)</b>	H-D: M X12: M	ID	1/1 1/2

**Segment: LIN Item Identification**  
Level: Detail

**Data Element Summary**

Ref	Data		Attributes			
	Des.	Element	Element Name	Req	Type	Min/Max
LIN02	235	Product ID Qualifier	Product ID Qualifier <b>Field Content: BP (H-D Part Number)</b>	H-D: M X12: M	ID	2/2 2/2
LIN03	234	Product ID (H-D Part Number)	Product ID (H-D Part Number) <b>Field Content: H-D Part Number</b>	H-D: M X12: M	AN	1/18 1/48
LIN04	235	Product ID Qualifier	Product ID Qualifier <b>Field Content: DR (Drawing Revision)</b>	H-D: X X12: X	ID	2/2 2/2
LIN05	234	Product ID Level	Product ID Level <b>Field Content: Drawing Revision Level</b>	H-D: X X12: X	AN	1/4 1/48
LIN06	235	Product ID Qualifier	Product ID Qualifier <b>Field Content: PO (H-D Purchase Order)</b>	H-D: M X12: X	ID	2/2 2/2
LIN07	234	Product ID (H-D Purchase Order Number)	Product ID (H-D Purchase Order Number) <b>Field Content: Field must contain one of the following:</b> <ul style="list-style-type: none"> <li>• H-D Purchase Order Number</li> <li>• If the N1 SI 04 = 4143434553, then this field must contain the 862 picklist number found in the 862's BSS02.</li> </ul>	H-D: M X12: X	AN	1/15 1/48

**Segment:** SN1      **Item Detail**  
**Level:** Detail

**Data Element Summary**

Ref	Data		Attributes			
	Des.	Element	Element Name	Req	Type	Min/Max
SN102	382		Number of Units Shipped	H-D:	M	R 1/10
			<b>Field Content: Total quantity of part number being shipped</b>	X12:	M	R 1/10
SN103	355		Unit of Measure Code	H-D:	M	ID 2/2
			<b>Field Content: Unit of Measure</b> See Appendix D, Unit of Measure, valid codes.	X12:	M	ID 2/2

**Segment:** REF      **Reference Identification – Line Feed**  
**Level:** Detail

**Data Element Summary**

Ref	Data		Attributes			
	Des.	Element	Element Name	Req	Type	Min/Max
REF01	128		Reference ID Qualifier	H-D:	X	ID 2/2
			<b>Field Content: LF (Line Feed)</b>	X12:	M	ID 2/3
REF02	127		Reference Identification	H-D:	X	AN 1/30
			<b>Field Content: Code representing the assembly line consuming location</b>	X12:	M	AN 1/30

**Segment:** REF      **Reference Identification – Packing List**  
**Level:** Detail

**Data Element Summary**

Ref	Data		Attributes			
	Des.	Element	Element Name	Req	Type	Min/Max
REF01	128		Reference Number Qualifier	H-D:	X	ID 2/2
			<b>Field Content: PK (Packing List)</b>	X12:	X	ID 2/2
REF02	127		Reference Number	H-D:	X	AN 8/8
			<b>Field Content: Packing List Number</b>	X12:	X	AN 1/30

**Segment: REF Reference Identification – Release ID**  
Level: Detail

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
REF01	128	Reference ID Qualifier Field Content: RE (Release Number)	H-D: M X12: X	ID ID	2/2 2/3
REF02	127	Reference Identification Field Content: One of the following values should be entered: <ul style="list-style-type: none"> <li>If N1 SI 04 = a manufacturing location, then entered the Release ID from the 862, BSS 02</li> <li>If N1 SI 04 = 4143438416, then enter the PO Line Item Number from the 850, PO101</li> <li>If N1 SI 04 = 4143434553, then enter the picklist line item number from the 862, LIN01</li> <li>If ASN is responding to an MRO 850, then enter the PO Line Item Number from the 850, PO101</li> </ul>	H-D: M X12: X	AN AN	8/8 1/30

**Segment: REF Reference Identification – Job Number**  
Level: Detail

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
REF01	128	Reference ID Qualifier Field Content: JN (Job Number) Used in sequencing (aka Internal Vehicle Number, Batch Number, Security Number, External Call Number)	H-D: X X12: O	ID ID	2/2 2/3
REF02	127	Reference Identification Field Content: Used in sequencing (aka Internal Vehicle Number, Batch Number, Security Number, External Call Number) and will be sent in the EDI 866 transaction. If your company does not receive the EDI 866 transaction, this segment will not be sent in the ASN.	H-D: X X12: O	AN AN	1/6 1/6

**Segment:** CLD      **Load Detail**  
**Level:** Detail

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
CLD01	622	Number of Load <b>Field Content: Number of containers</b> <b>If the N1 SI 04 = 4143434553, then this segment is optional.</b>	H-D: M X12: M	N0	1/5 1/5
CLD02	382	Number of Units Shipped <b>Field Content: Quantity per container. This value must be a whole number and match to the value sent in the 862, TD1 02.</b>	H-D: M X12: M	R	1/10 1/10

**Segment:** REF      **Reference Identification – Container Serial Number**

**Level:** Detail

**Data Element Summary**

Ref	Data	Element Name	Attributes		
			Req	Type	Min/Max
REF01	128	Reference ID Qualifier <b>Field Content: LS (Container Serial Number)</b> <b>If the N1 SI 04 = 414343713 or 4143438416, then this segment is Required. Otherwise, this is an optional segment.</b>	H-D: M X12: M	ID	2/2 2/3
REF02	127	Reference Identification <b>Field Content: Container Serial Number. Label Serial Number/Handling Unit Number. This number must begin with the supplier's current Supplier ID.</b>  <b>Sample: 12345600000001</b> <b>Supplier ID is 123456 and the unique number for the Handling Unit is 00000001.</b>	H-D: M X12: X	AN	1/15 1/30

**Segment: CTT Transaction Totals**  
Level: Summary

**Data Element Summary**

Ref	Data	Element Name	Attributes		
Des.	Element		Req	Type	Min/Max
CTT01	354	Number of Line Items	H-D: M	NO	1/6
		<b>Field Content: Total number of HL segments in this transaction</b>	X12: M	NO	1/6

**Segment: SE Transaction Set Trailer**  
Level: Summary

**Data Element Summary**

Ref	Data	Element Name	Attributes		
Des.	Element		Req	Type	Min/Max
SE01	96	Number of Included Segments	H-D: M	NO	1/10
		<b>Field Content: Total number of segments included in this transaction, including the ST and SE segments.</b>	X12: M	NO	1/10
SE02	329	Transaction Set Control Number	H-D: M	AN	4/9
		<b>Field Content: Identifying control number assigned by the H-D translator for the 856. This value must match the value in the ST02.</b>	X12: M	AN	4/9



**Segment: GE Functional Group Trailer**  
Level: Functional Envelope

**Data Element Summary**

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

**Segment: IEA Interchange Control Trailer**  
Level: Interchange Envelope

**Data Element Summary**

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

## Data Example 1 – Two Pallets Same P/N, One Pallet Mixed P/Ns

Below is a sample ASN that contains two pallets with the same part number (243242-05A) and one pallet with mixed parts (24330-05A, 24400-05A, and 24500-05A).

<p>ST*856*70001μ          BSN*00*171787*20110823*1352μ          DTM*011*20110720*1352μ          HL*1**Sμ          MEA*PD*G*5221*LBμ          TD1*CNT*1μ          TD4~123~D~1234μ          TD5*B*2*HECI*Mμ          REF*CN*171787μ          N1*SI**1*4145028600μ          N1*ST**1*4145028600μ          N1*SU**92*TESTμ          REF*DK*P16μ          SAC~C~G830~240μ          HL*2*1*Tμ          REF*SE*224601000000100μ          PAL*1****1384*LB*****1μ          HL*3*2*Iμ          LIN**BP*24342-05A*DR*0*PO*X000003177μ          SN1**750*EAμ          REF*LF*210T9 POUμ          REF*RE*10718146μ          CLD*2*375μ          REF*LS*224601000087015μ          REF*LS*224601000087016μ          HL*4*1*Tμ          REF*SE*224601000000101μ          PAL*1****1922*LB*****1μ          HL*5*4*Iμ          LIN**BP*24342-05A*DR*0*PO*X000003177μ          SN1**750*EAμ          REF*LF*210T9 POUμ          REF*RE*10718146μ          CLD*2*250μ          REF*LS*224601000087017μ          REF*LS*224601000087018μ</p>	<p>HL*6*1*Tμ          REF*SE*224601000000102μ          PAL*1****1915*LB*****1μ          HL*7*6*Iμ          LIN**BP*24330-05A*DR*0*PO*X000003177μ          SN1**500*EAμ          REF*LF*210T9 POUμ          REF*RE*10718146μ          CLD*2*250μ          REF*LS*224601000087019μ          REF*LS*224601000087020μ          HL*8*6*Iμ          LIN**BP*24400-05A*DR*0*PO*X000003177μ          SN1**200*EAμ          REF*LF*210T9 POUμ          REF*RE*10718146μ          CLD*1*200μ          REF*LS*224601000087021μ          REF*LS*224601000087022μ          HL*9*6*Iμ          LIN**BP*24500-05A*DR*0*PO*X000003177μ          SN1**1000*EAμ          REF*LF*210T9 POUμ          REF*RE*10718146μ          CLD*10*100μ          REF*LS*224601000087022μ          REF*LS*224601000087023μ          REF*LS*224601000087024μ          REF*LS*224601000087025μ          REF*LS*224601000087026μ          REF*LS*224601000087027μ          REF*LS*224601000087028μ          REF*LS*224601000087029μ          REF*LS*224601000087030μ          REF*LS*224601000087031μ          CTT*9μ          SE*78*70001μ</p>
--	---

## Data Example 2 – Three Pallets Each With One P/N

Below is an ASN that contains three pallets and each pallet has one part number.

ST*856*70001μ BSN*00*171787*20110823*1352μ DTM*011*20110720*1352μ HL*1**Sμ MEA*PD*G*5221*LBμ TD1*CNT*1μ TD4~123~D~1234μ TD5*B*2*HECI*Mμ REF*CN*171787μ N1*SI**1*4145028600μ N1*ST**1*4145028600μ N1*SU**92*TESTμ REF*DK*P16μ SAC~C~G830~240μ HL*2*1*Tμ REF*SE*224601000000100μ PAL*1****1384*LB*****1μ HL*3*2*Iμ LIN**BP*24342-05A*DR*0*PO*X000003177μ SN1**750*EAμ REF*LF*210T9 POUμ REF*RE*10718146μ CLD*2*375μ REF*LS*224601000087015μ REF*LS*224601000087016μ HL*4*1*Tμ REF*SE*224601000000101μ PAL*1****1922*LB*****1μ HL*5*4*Iμ	LIN**BP*24330-05A*DR*0*PO*X000003177μ SN1**500*EAμ REF*LF*210T9 POUμ REF*RE*10718146μ CLD*2*250μ REF*LS*224601000087017μ REF*LS*224601000087018μ HL*6*1*Tμ REF*SE*224601000000102μ PAL*1****1915*LB*****1μ HL*7*6*Iμ LIN**BP*24330-05A*DR*0*PO*X000003177μ SN1**500*EAμ REF*LF*210T9 POUμ REF*RE*10718146μ CLD*2*250μ REF*LS*224601000087019μ REF*LS*224601000087020μ CTT*7μ SE*52*70001μ
---	--

### Data Example 3 – Loose Boxes

Below is an ASN that contains three loose boxes, which were shipped via UPS.

```
ST*856*70001μ
BSN*00*171787*20110823*1352μ
DTM*011*20110720*1352μ
HL*1**Sμ
MEA*PD*G*5221*LBμ
TD1*CNT*1μ
TD4~123~D~1234μ
TD5*B*2*UPSN*Mμ
REF*CN*XYZ12398769μ
REF*CN*XYZ12398770μ
N1*SI**1*062629324μ
N1*ST**1*062629324μ
N1*SU**92*TESTμ
REF*DK*P16μ
SAC~C~G830~240μ
HL*2*1*Iμ
LIN**BP*87650-00*DR*0*PO*X009856913μ
SN1**1000*EAμ
REF*LF*210T9 POUμ
REF*RE*10718789μ
CLD*1*1000μ
REF*LS*224601000087899μ
HL*3*2*Iμ
LIN**BP*87655-00*DR*0*PO*X009856913μ
SN1**500*EAμ
REF*LF*210T9 POUμ
REF*RE*10718146μ
CLD*1*500μ
REF*LS*224601000087900μ
CTT*3μ
SE*31*70001μ
```

## Data Sample 4 – ASN with Job Number from EDI 866

Below is a sample ASN that contains two pallets with the same part number (243242-05A) and one pallet with mixed parts (24330-05A, 24400-05A, and 24500-05A) and Job Numbers. Please note that Job Numbers are obtained from the EDI 866 transaction. If the supplier does not receive an EDI 866, then the Job Number segment is not required in the ASN.

ST*856*70001μ BSN*00*171787*20110823*1352μ DTM*011*20110720*1352μ HL*1**Sμ MEA*PD*G*5221*LBμ TD1*CNT*1μ TD4~123~D~1234μ TD5*B*2*HECI*Mμ REF*CN*171787μ N1*SI**1*4145028600μ N1*ST**1*4145028600μ N1*SU**92*TESTμ REF*DK*P16μ SAC~C~G830~240μ HL*2*1*Tμ REF*SE*22460100000100μ PAL*1****1384*LB*****1μ HL*3*2*Iμ LIN**BP*24342-05A*DR*0*PO*X000003177μ SN1**750*EAμ REF*LF*210T9 POUμ REF*RE*10718146μ REF*JN*123456μ CLD*2*375μ REF*LS*224601000087015μ REF*LS*224601000087016μ HL*4*1*Tμ REF*SE*22460100000101μ PAL*1****1922*LB*****1μ HL*5*4*Iμ LIN**BP*24342-05A*DR*0*PO*X000003177μ SN1**750*EAμ REF*LF*210T9 POUμ REF*RE*10718146μ REF*JN*123456μ CLD*2*250μ REF*LS*224601000087017μ REF*LS*224601000087018μ	HL*6*1*Tμ REF*SE*22460100000102μ PAL*1****1915*LB*****1μ HL*7*6*Iμ LIN**BP*24330-05A*DR*0*PO*X000003177μ SN1**500*EAμ REF*LF*210T9 POUμ REF*RE*10718146μ REF*JN*123456μ CLD*2*250μ REF*LS*224601000087019μ REF*LS*224601000087020μ HL*8*6*Iμ LIN**BP*24400-05A*DR*0*PO*X000003177μ SN1**200*EAμ REF*LF*210T9 POUμ REF*RE*10718146μ REF*JN*123456μ CLD*1*200μ REF*LS*224601000087021μ REF*LS*224601000087022μ HL*9*6*Iμ LIN**BP*24500-05A*DR*0*PO*X000003177μ SN1**1000*EAμ REF*LF*210T9 POUμ REF*RE*10718146μ REF*JN*123456μ CLD*10*100μ REF*LS*224601000087022μ REF*LS*224601000087023μ REF*LS*224601000087024μ REF*LS*224601000087025μ REF*LS*224601000087026μ REF*LS*224601000087027μ REF*LS*224601000087028μ REF*LS*224601000087029μ REF*LS*224601000087030μ REF*LS*224601000087031μ CTT*9μ SE*78*70001μ
---	---

## **Testing Requirements**

To obtain certification from our business partner Sterling Commerce, the submitted ASN must meet all ANSI X.12, 004010 guidelines and contain sample data that includes two pallets of the same part number and one pallet of mixed parts. A test ASN of this type will demonstrate that the supplier's EDI system is capable of sending an ASN that represents both types of shipments.

## Documentation Updates

### August 26, 2011, Document Dated August 2011, Revision 1

The following updates were made to this document:

- Moved the REF JN segment to follow REF RE segment
- Updated the Data Example

### September 13, 2011, Document Dated September 2011

The following updates were made to this document:

- In the Data Segment Sequence section, indicated that the HL Tare/Pallet loop is Optional. If a pallet is shipped, then the HL Tare/Pallet, REF SE and PAL segments must be included in the ASN. If no pallets are shipped, then the HL Tare/Pallet, REF SE and PAL segment are not required in the ASN.
- In the Data Segment Sequence section, indicated that the HL Item loop is Mandatory.
- Add the following information to the HL Tare/Pallet segment:

**“If this segment is sent in the ASN, then the ASN must also include the REF SE and PAL segments.**

**If a pallet is not included in the shipment, the HL Tare/Pallet, REF SE and PAL segments are not required in the ASN.”**

- Added the following information to the REF JN 02:

**“and will be sent in the EDI 866 transaction. If your company does not receive the EDI 866 transaction, this segment will not be sent in the ASN.”**

**September 16, 2011, Document Dated September 2011, Revision 1**

The following updates were made to this document:

- Removed the Data Example section from this document.
- Added the following sections to this document:
  - Data Example 1 – Two Pallets Same P/N, One Pallet Mixed P/Ns
  - Data Example 2 – Three Pallets Each With One P/N
  - Data Example 3 – Loose Boxes
  - Data Sample 4 – ASN with Job Number from EDI 866
  - Testing Requirements