EDI Implementation Guide for

SAP ASN

July 2019

TRANSACTION SET

856

Advanced Ship Notice

ANSI X.12
Version 004010

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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 timeliness of the information about in-transit materials (shipment and ASN) 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 for H-D to successfully receive this document, the sender's EDI system must be set up with 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	
TD5	Carrier Details – SCAC	Mandatory	1	
TD4	Carrier Details - Hazardous Materials	Optional	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 Tare/Pallet		Mandatory		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 Item		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 – Schedule Line Number	Mandatory	1	
REF	Reference Identification – Engine Serial Number	Mandatory	1	
CLD	Load Detail	Mandatory	>1	
REF	Reference Identification – Container Serial Number	Optional	>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 Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
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 10 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	10/10
		Field Content: Fill with 10 blank spaces	X12:	M	AN	10/10
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 6 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 **Also known as Hex E4**	X12:	M	ID	1/1
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. Must be a whole number.	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				
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				
		SH Advanced Ship Notice				
GS02	142	Application Sender's Code	HD:	M	AN	2/15
		Field Content: Supplier's EDI ID	X12:	M	AN	2/15
GS03	124	Application Receiver's Code	HD:	M	AN	2/15
		Field Content: 062629324	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. Must be a whole number.	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 Identifier Code	H-D:	M	ID	3/3
		Field Content: 856	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 856. This value must match the value in the SE02.	X12:	M	AN	4/9

Segment: BSN Beginning Segment for Ship Notice

Level: Header

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
BSN01	353	Transaction Set Purpose Code	H-D:	M	ID	2/2
		Field Content: One of the following codes:	X12:	M	ID	2/2
		Code Name **00 Original shipping notice** **05 Replacement of the original ship notice** **Can not be used for SAP H-D sites** • **To send a corrected ASN, supplier must call material planner who will arrange to have the first ASN deleted. Once the ASN is deleted, supplier can send corrected ASN.**				
BSN02	396	Shipment Identification	H-D:	M	AN	1/8
		Field Content: ASN Number / Shipment ID assigned by sender. This value can not be repeated within 24 months. ~~**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.**~~	X12:	M	AN	2/30
BSN03	373	Date Created	H-D:	M	DT	8/8
		Field Content: CCYYMMDD	X12:	M	DT	8/8
BSN04	337	Time Created	H-D:	M	TM	4/4
		Field Content: HHMM	X12:	M	TM	4/8

Segment: DTM Date / Time Reference

Level: Header

Data Element Summary

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

Segment: HL Hierarchical Level

Level: Header

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
HL01	628	Hierarchical ID Number	H-D:	M	AN	1/12
		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, this HL will always be 1.	X12:	M	AN	1/12
HL03	735	Hierarchical Level Code	H-D:	M	ID	1/1
		Field Content: S (Shipment)	X12:	M	ID	1/2

Segment: MEA Measurement
Level: Header

Data Element Summary

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

Segment: TD1 Carrier Details - Packaging
Level: Header

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
TD101	103	Packaging Code	H-D:	M	AN	3/4
		Field Content: Packing Code, See Appendix B, H-D Packaging Codes	X12:	O	AN	3/5
TD102	80	Lading Quantity	H-D:	M	N0	1/4
		Field Content: Quantity of each packaging code Must be a whole number.	X12:	X	N0	1/7

Segment: TD5 Carrier Details - SCAC

Level: Header

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
TD501	133	Routing Sequence Code	H-D:	M	ID	1/1
		Field Content: B (Origin / Delivery Carrier)	X12:	O	ID	1/2
TD502	66	Identification Code Qualifier	H-D:	M	ID	1/2
		Field Content: One of the following codes:	X12:	X	ID	1/2
		Code Name **2 SCAC** **ZZ Other Carrier**				
TD503	67	Identification Code	H-D:	M	AN	2/40
		Field Content: SCAC or code representing carrier. See Appendix C, H-D Standard Carrier Alpha Codes, for valid SCACs. Please reference the requirements document that the shipment is made against for the correct code. Some of the SCAC are non-traditional codes.	X12:	X	AN	2/80
TD504	91	Transportation Method/Type Code	H-D:	M	ID	1/2
		Field Content: Any valid X12 Data Element 91 code specifying the method of transportation.	X12:	X	ID	1/2

Segment: TD4 Carrier Details – Hazardous Material

Level: Header

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
TD401	133	Special Handling Code	H-D:	M	ID	2/3
		Field Content: Any valid X12 Data Element 152 code specifying special transportation handling Instructions for this shipment.	X12:	M	ID	2/3
TD402	66	Hazardous Material Code qualifier	H-D:	X	ID	1/1
		Field Content: D (Hazardous Material)	X12:	X	ID	1/1
TD403	67	Hazardous Material Class Code	H-D:	X	AN	1/4
		Field Content: Any valid X12 Data Element 209 specifying the kind of hazard for the material for this shipment.	X12:	X	AN	1/4

Segment: REF Reference Identification – Bill of Lading

Level: Header

Data Element Summary

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

Segment: REF Reference Identification – Freight Reference

Level: Header

Data Element Summary

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

Segment: N1 Name – Ship Schedule Issuer

Level: Header

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
N101	98	Entity Identifier Code	H-D:	M	ID	2/2
		Field Content: SI (Schedule Issuer)	X12:	M	ID	2/3
N103	66	Identification Code Qualifier	H-D:	M	ID	1/2
		Field Content: One of the following codes:	X12:	X	ID	1/2
		Code Name **1 DUNS code for H-D** **92 Assigned by H-D**				
N104	67	Identification Code	H-D:	M	AN	2/10
		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.	X12:	X	AN	2/80

Segment: N1 Name – Ship To Location

Level: Header

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
N101	98	Entity Identifier Code	H-D:	M	ID	2/2
		Field Content: ST (Ship To)	X12:	M	ID	2/3
N103	66	Identification Code Qualifier	H-D:	M	ID	1/2
		Field Content: One of the following codes:	X12:	X	ID	1/2
		Code Name **1 DUNS code for H-D** **92 Assigned by H-D**				
N104	67	Identification Code	H-D:	M	AN	2/10
		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. ~~**ASNs with the N1 SI 04 equal to 4143434553 (Supplier Direct) will require a dealer number to be entered. Reference the 862's N1 ST 04 for the code.**~~	X12:	X	AN	2/80

Segment: N1 Name – Supplier / Manufacturer

Level: Header

Data Element Summary

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

Segment: REF Reference Identification - Dock

Level: Header

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
REF01	128	Reference ID Qualifier	H-D:	X	ID	2/2
		Field Content: DK (Dock)	X12:	X	AN	2/3
		If the document that triggers the shipment (862 or 850) contains a dock number, then the ASN must have this segment and the value in the 02 must equal the value in the triggering document.				
REF02	127	Reference Identification	H-D:	X	AN	1/4
		Field Content: Dock Number	X12:	X	AN	1/30
		If the document that triggers the shipment (862 or 850) contains a dock number, then the ASN must have this segment and the value in the 02 must equal the value in the triggering document.				

Segment: SAC Service, Allowance, or Charge Information

Level: Header

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
SAC01	248	Allowance or Charge Indicator	H-D:	M	ID	1/1
		Field Content: C (Charge)	X12:	M	ID	1/1
		~~**Mandatory for ASN being sent to Supplier Direct (N1 SI 04 equals 4143434553). Not required for ASNs to other H-D sites.**~~				
SAC02	1300	Service, Allowance or Charge Code	H-D:	M	ID	4/4
		Field Content: One of the following codes:	X12:	X	ID	4/4
		Code Name **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**				
		~~**Mandatory for ASN being sent to Supplier Direct (N1 SI 04 equals 4143434553). Not required for ASNs to other H-D sites.**~~				
SAC05	610	Allowance or Charge Amount	H-D:	M	N2	1/15
		Field Content: Total dollar amount of the charge.	X12:	O	N2	1/15
		~~**Mandatory for ASN being sent to Supplier Direct (N1 SI 04 equals 4143434553). Not required for ASNs to other H-D sites.**~~				

Segment: HL Hierarchical Level - TARE/Pallet

Level: Header

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
HL01	628	Hierarchical ID Number	H-D:	M	AN	1/4
		Field Content: A unique alphanumeric number for each occurrence of the HL segment in the transaction set. **The first HL segment in this transaction is the HL Shipment, which will be a 1. If this is the first HL Tare after the HL Shipment, then this will be 2. All subsequent HL segments will have this value incremented by one.**	X12:	M	AN	1/4

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
HL02		Hierarchical Parent ID Number	H-D:	M	AN	1/4
		Field Content: For the HL Tare segment, this element will have a number 1.	X12:	M	AN	1/4
HL03	735	Hierarchical Level Code	H-D:	M	ID	1/1
		Field Content: T (Tare)	X12:	M	ID	1/1

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

Level: Header

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
REF01	128	Reference ID Qualifier	H-D:	M	ID	2/2
		Field Content: Enter SE (Master Label Serial Number/Handling Unit Number)	X12:	M	AN	2/2
REF02	127	Reference Identification	H-D:	M	N0	15/15
		Field Content: Master Serial Number/Handling Unit Number **A 15 digit Master Label Serial Number (also known a Master Handling Unit (MHU)). Serial number must begin with the supplier's current Supplier ID and be immediately followed by a set of unique numbers. The combination of both will equal 15 digits. This value must also be documented on the Master Label.**	X12:	M	AN	1/20

Ref Des.	Data Element	Element Name	Attributes Req	Type	Min/Max
		Below is an example using an SAP Supplier ID: **Sample Master Label Serial #: 123456000000001** **SAP Supplier ID: 123456** **Unique set of 9 digits: 000000001** **Below is an example using a Legacy Supplier ID:** **Sample Master Label Serial #: A12340000000001** **Legacy Supplier ID: A1234** **Unique set of 10 digits: 0000000001** **Notes:** • **Each bulk container (a container that must be moved by a fork truck) requires a unique Master Serial Number.** • **Each part number shipped on a mixed pallet requires a unique Master Serial Number. If there are three part numbers on the mixed pallet, there will be three Master Labels, each having a unique serial number. Each Master Label will summarize the contents of the multiple boxes on the pallet.** • **All boxes of the same part number shipped via UPS/FedEx/etc. must have a Master Serial Number. The Master Label will summarize the contents of the multiple boxes.** **For information on the Master Serial Number requirements for different shipments, please refer to the Bar Code Label Requirements Document.**			

Segment: PAL - Type & Load Characteristics

Level: Header

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
PAL01	883	Higher Level HU Type Code	H-D:	M	ID	1/2
		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 Handling Unit (i.e a pallet would select Code 6 since it is Wood). For example:	X12:	M	ID	1/2
		Code Name **1 Aluminum** **2 As specified by Department of Transportation** **3 Metal** **4 Standard** **5 Steel** **6 Wood** **7 Slip Sheet**				
PAL05	395	Net Unit Weight	H-D:	M	N	1/7
		Field Content: The total (gross) weight associated with the Tare and Master Serial Number. Value must be a whole number.	X12:	M	N	1/8
PAL06	355	Weight Unit of Measure	H-D:	M	AN	2/2
		Field Content: Enter one of the following codes:	X12:	M	AN	2/2
		Code Name **LB Pounds** **HV Hundred Weight** **GR Gram** **KG Kilogram** **KT Kilotonne** **MG Milligram** **OZ Ounce** **TO Troy Ounce** **51 Actual Tonne** **TN Net Ton (2,000 LB = 1 Net Ton)**				

PAL15	399	Higher Level HU Category	H-D:	M	N0	1/1
		Field Content: Code specifying Higher Level HU exchange instructions	X12:	M	N0	1/1

Code	Name
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

Must be a whole number.

Segment: HL Hierarchical Level - Item

Level: Detail

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
HL01	628	Hierarchical ID Number	H-D:	M	AN	1/12
		Field Content: A unique alphanumeric number for each occurrence of the HL segment in the transaction set. Each subsequent HL segment will have this value incremented by one.	X12:	M	AN	1/12
HL02	734	Hierarchical Parent ID Number	H-D:	M	AN	1/3
		Field Content: Identification number of the higher hierarchical data segment that this data segment is subordinate to.	X12:	O	AN	1/12
HL03	735	Hierarchical Level Code	H-D:	M	ID	1/1
		Field Content: I (Item)	X12:	M	ID	1/2

Segment: LIN Item Identification
Level: Detail

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
LIN02	235	Product ID Qualifier	H-D:	M	ID	2/2
		Field Content: BP (H-D Part Number)	X12:	M	ID	2/2
LIN03	234	Product ID (H-D Part Number)	H-D:	M	AN	1/18
		Field Content: H-D Part Number	X12:	M	AN	1/48
LIN04	235	Product ID Qualifier	H-D:	X	ID	2/2
		Field Content: DR (Drawing Revision)	X12:	X	ID	2/2
LIN05	234	Product ID Level	H-D:	X	AN	1/4
		Field Content: Drawing Revision Level	X12:	X	AN	1/48
LIN06	235	Product ID Qualifier	H-D:	M	ID	2/2
		Field Content: PO (H-D Purchase Order)	X12:	X	ID	2/2
LIN07	234	Product ID (H-D Purchase Order Number)	H-D:	M	AN	1/15
		Field Content: Field must contain one of the following:	X12:	X	AN	1/48

- **H-D Purchase Order Number**
- ~~**If the N1-SI-04 = 4143434553 (Supplier Direct), then this field must contain the 862 picklist number found in the 862's BSS02**~~**.**

Segment: SN1 Item Detail
Level: Detail

Data Element Summary

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

Segment: REF Reference Identification – Line Feed

Level: Detail

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
REF01	128	Reference ID Qualifier	H-D:	X	ID	2/2
		Field Content: LF (Line Feed)	X12:	M	ID	2/3
REF02	127	Reference Identification	H-D:	X	AN	1/30
		Field Content: Code representing the assembly line consuming location. If the document that triggers the shipment (850 or 862) contains a line feed, then the same value that is in the triggering document must be entered in the ASN.	X12:	M	AN	1/30

Segment: REF Reference Identification – Packing List

Level: Detail

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
REF01	128	Reference Number Qualifier	H-D:	X	ID	2/2
		Field Content: PK (Packing List)	X12:	X	ID	2/2
REF02	127	Reference Number	H-D:	X	AN	1/8
		Field Content: Packing List Number **All parts in the ASN must have the same packing list number. If the ASN number equals the packing list number, this segment is not required.**	X12:	X	AN	1/30

Segment: REF Reference Identification – Release ID

Level: Detail

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
REF01	128	Reference ID Qualifier **Field Content: RE (Release Number)**	H-D: X12:	M X	ID ID	2/2 2/3
REF02	127	Reference Identification **Field Content: One of the following values should be entered:** • **If N1 SI 04 equals a manufacturing location, then enter the Release ID from the 862's BSS 02** • ~~**If N1 SI 04 equals 4143438416 (P&A) or 414343713 (GM), then enter the PO Line Item Number from the 850's PO101**~~ • ~~**If N1 SI 04 equals 4143434553 (Supplier Direct), then enter the picklist line item number from the 862's LIN01**~~ • **If ASN is responding to an ~~MRO~~ 850, then enter the PO Line Item Number from the 850's PO101**	H-D: X12:	M X	AN AN	1/8 1/30

Segment: REF Reference Identification – Schedule Line Number

Level: Detail

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
REF01	128	Reference ID Qualifier **Field Content: ZZ (Mutually Defined as the Schedule Line Number)**	H-D: X12:	X X	ID ID	2/2 2/3
REF02	127	Reference Identification **Field Content: If the 862 that triggers the shipment contains a Schedule Delivery Line Number, then the same value that is in the 862 FST09 must be entered in the ASN.**	H-D: X12:	X X	AN AN	9/9 1/30

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

Level: Detail

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
REF01	128	Reference ID Qualifier	H-D:	X	ID	2/2
		Field Content: ZZ (Mutually Defined as the Schedule Line Number)	X12:	X	ID	2/3
REF02	127	Reference Identification	H-D:	X	AN	6/6
		Field Content: SERIAL	X12:	X	AN	1/30
REF03	127	**Reference Identification**	H-D:	X	AN	1/10
		Field Content: Engine Serial Number	X12:	X	AN	1/30

Segment: CLD Load Detail

Level: Detail

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
CLD01	622	Number of Load	H-D:	M	N0	1/5
		Field Content: Number of containers. Must be a whole number.	X12:	M	N0	1/5
		~~**If the N1 SI 04 equals 4143434553 (Supplier Direct), then this segment is optional.**~~				
CLD02	382	Number of Units Shipped	H-D:	M	R	1/10
		Field Content: Quantity per container.	X12:	M	R	1/10
		~~**If the N1 SI 04 equals 4143434553 (Supplier Direct, then this segment is optional.**~~				

Segment: REF Reference Identification – Container Serial Number

Level: Detail

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
REF01	128	Reference ID Qualifier	H-D:	M	ID	2/2
		Field Content: LS (Container Serial Number)	X12:	M	ID	2/3
		~~**Required for ASNs with the N1 SI 04 equal to 414343713 (GM) and 4143438416 (P&A)**~~				
		Optional for ASNs going ~~other~~ to SAP H-D sites.				
REF02	127	Reference Identification	H-D:	M	AN	1/15
		Field Content: Container Serial Number.	X12:	X	AN	1/30
		~~**Required for ASNs with the N1 SI 04 equal to 414343713 (GM) and 4143438416 (P&A)**~~				
		Optional for ASNs going ~~other~~ to SAP H-D sites.				

Segment: CTT Transaction Totals

Level: Summary

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
CTT01	354	Number of Line Items	H-D:	M	N0	1/6
		Field Content: Total number of HL segments in this transaction. Must be a whole number.	X12:	M	N0	1/6

Segment: SE Transaction Set Trailer

Level: Summary

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
SE01	96	Number of Included Segments	H-D:	M	N0	1/10
		Field Content: Total number of segments included in this transaction, including the ST and SE segments. Must be a whole number.	X12:	M	N0	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 856. 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		Attributes Req	Type	Min/Max
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. Must be a whole number.	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. Must be a whole number.	X12:	M	N0	1/9

Segment: IEA Interchange Control Trailer

Level: Interchange Envelope

Data Element Summary

Ref Des.	Data Element	Element Name		Attributes Req	Type	Min/Max
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. Must be a whole number.	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. Must be a whole number.	X12:	M	N0	9/9

Data Example 1 – Current Firm Order, Bulk Shipment: Multiple Pallets Each with a Different Part Number

This scenario would be applicable to other bulk containers (i.e. ropak, pallet box, and etc.). A bulk container is large, must be moved by a fork truck, and contains one part number.

Below is an ASN that reflects three pallets, each pallet having a different part number. Each part number has a different order schedule line number. The shipment will require three Master Label, one for pallet. Each container on the pallet will require a Container Label. Details of the shipment are:

Part Number 24500-05A

- Order Quantity is 750
- Current Firm Order's Schedule Line Number 000100122
- Pallet 1: Master Label with Serial Number 654321000000100, total shipped quantity 750
    - Container 1 with Serial Number 654321000087015, total container quantity 375
    - Container 2 with Serial Number 654321000087016, total container quantity 375

Part Number 24400-05A

- Order Quantity is 500
- Current Order's Schedule Line Number 000100231
- Pallet 2: Master Label with Serial Number 654321000000101, total shipped quantity 500
    - Container 1 with Serial Number 654321000087017, total container quantity 250
    - Container 2 with Serial Number 654321000087018, total container quantity 250

Part Number 24300-05A

- Order Quantity is 500
- Current Order's Schedule Line Number 000100050
- Pallet 3: Master Label with Serial Number 654321000000102, total shipped quantity 500
    - Container 1 with Serial Number 654321000087019, total container quantity 250
    - Container 2 with Serial Number 654321000087020, total container quantity 250

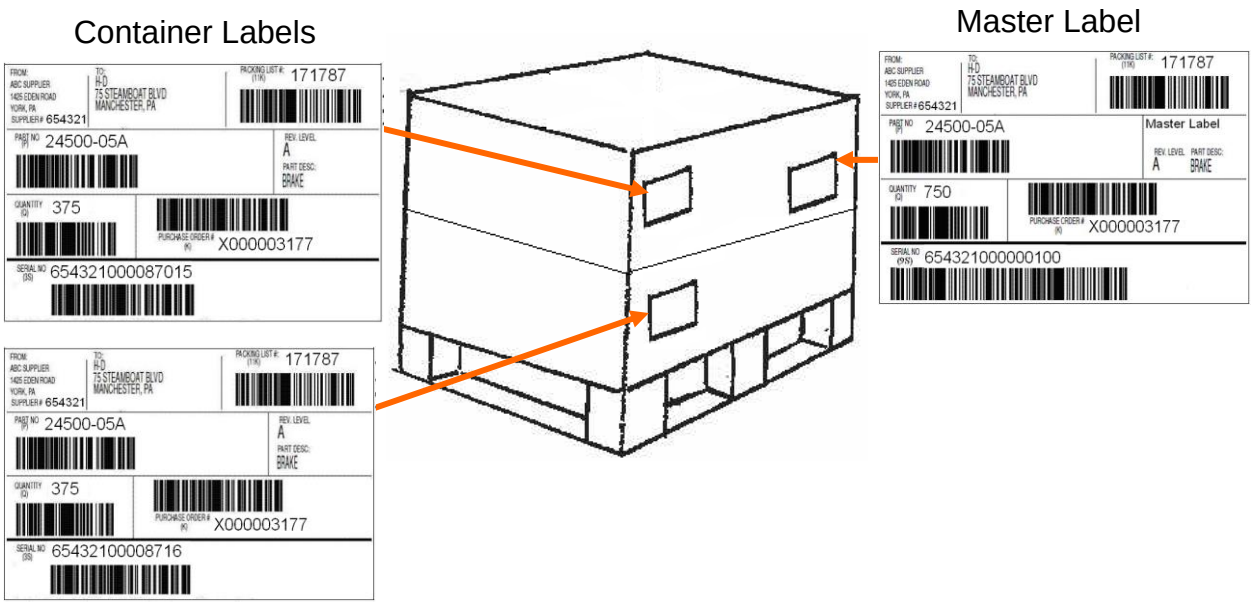
Below is how the ASN is to be set up:

BSN*00*171787*20110823*1352µ	
DTM*011*20110720*1352µ	
HL*1**Sµ	
MEA*PD*G*5221*LBµ	
TD1*PAT*3µ	
TD5*B*2*HECI*Mµ	
TD4¬123¬D¬1234µ	
REF*BM*86NXA8659ZY976µ	
REF*CN*171787µ	
N1*SI**92*1001µ	
N1*ST**92*1001S002µ	
N1*SU**92*654321µ	
REF*DK*P16µ	
SAC¬C¬G830¬240µ	
HL*2*1*Tµ	HL Tare Loop 1
REF*SE*654321000000100µ	Master Serial Number 654321000000100 associated with P/N 24500-05A.
PAL*1****1384*LB*********1µ	
HL*3*2*Iµ	HL Item Loop for P/N 24500-05A
LIN**BP*24500-05A*DR*0*PO*X000003177µ	Part Number 24500-05A
SN1**750*EAµ	Total shipped quantity of 750
REF*LF*210T9 POUµ	
REF*RE*10718146µ	
REF*ZZ*000100122µ	P/N 24500-05 Order Schedule Delivery Line Number 000100122
CLD*2*375µ	Shipped 2 containers with 375 pieces in each
REF*LS*654321000087015µ	2 Container Serial Numbers
REF*LS*654321000087016µ	
HL*4*1*Tµ	HL Tare Loop 2
REF*SE*654321000000101µ	Master Serial Number 654321000000101 associated With P/N 24400-05A.
PAL*1****1922*LB*********1µ	
HL*5*4*Iµ	HL Item Loop for P/N 24400-05A
LIN**BP*24400-05A*DR*0*PO*X000003178µ	Part Number 24400-05A
SN1**500*EAµ	Total shipped quantity 500
REF*LF*210T9 POUµ	
REF*RE*10718146µ	
REF*ZZ*000100231µ	P/N 24400-05A Order Schedule Delivery Line Number 000100231
CLD*2*250µ	Shipped 2 containers with 250 pieces in each
REF*LS*654321000087017µ	2 Container Serial Numbers
REF*LS*654321000087018µ	

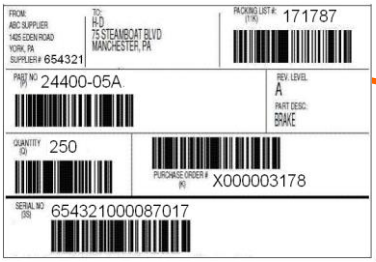
HL*6*1*Tμ	HL Tare Loop 3
REF*SE*654321000000102μ	Master Serial Number 654321000000102
PAL*1****1915*LB*********1μ	
HL*7*6*Iμ	HL Item Loop for P/N 24300-05A
LIN**BP*24300-05A*DR*0*PO*X000003179μ	Part Number 24300-05A
SN1**500*EAμ	Total shipped quantity 500
REF*LF*210T9 POUμ	
REF*RE*10718146μ	
REF*ZZ*000100050μ	P/N 24300-05A Order Schedule Delivery Line Number 000100231
CLD*2*250μ	Shipped 2 containers with 250 pieces in each
REF*LS*654321000087019μ	2 Container Serial Numbers
REF*LS*654321000087020μ	

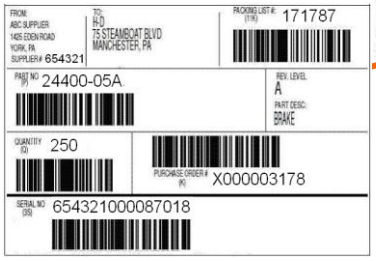
CTT (Segment created by your EDI translator. For additional information please reference Page 25 in this spec.)
SE (Segment created by your EDI translator. For additional information, please reference Page 25 in this spec.)

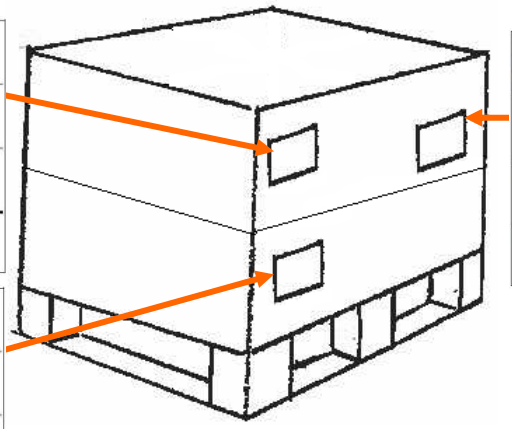
Data Sample 1 – Sample of How to Label Shipment



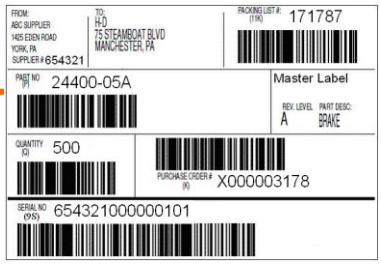
Container Label



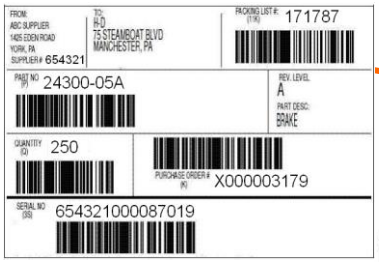


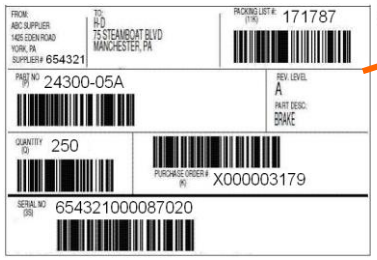


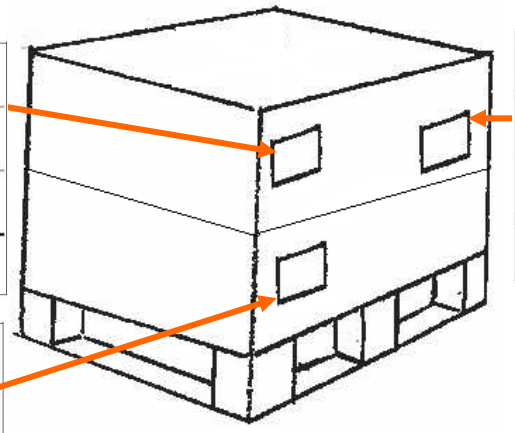
Master Label



Container Labels







Master Label

Data Sample 2 – Current Firm Order, Bulk Shipment: One Part Number Shipped on Two Pallets

This scenario would be applicable to other bulk containers (i.e. ropak, pallet box, and etc.). A bulk container is large, must be moved by a fork truck, and contains one part number.

The below ASN reflects one part number shipped on two pallets. The part number has a unique order schedule line number. The shipment will require two Master Labels, one for each pallet. Details of the shipment are:

Part Number 24500-05A

- Order Quantity is 1500
- Current Firm Order's Schedule Line Number 000100078
- Pallet 1: Master Label with Serial Number 654321000000100, total shipped quantity 750
  - Container 1 with Serial Number 654321000087015, total container quantity 375
  - Container 2 with Serial Number 654321000087016, total container quantity 375
- Pallet 2 has Master Serial Number 654321000000101, total shipped quantity 750
  - Container 3 with Serial Number 654321000087017, total container quantity 375
  - Container 4 with Serial Number 654321000087018, total container quantity 375

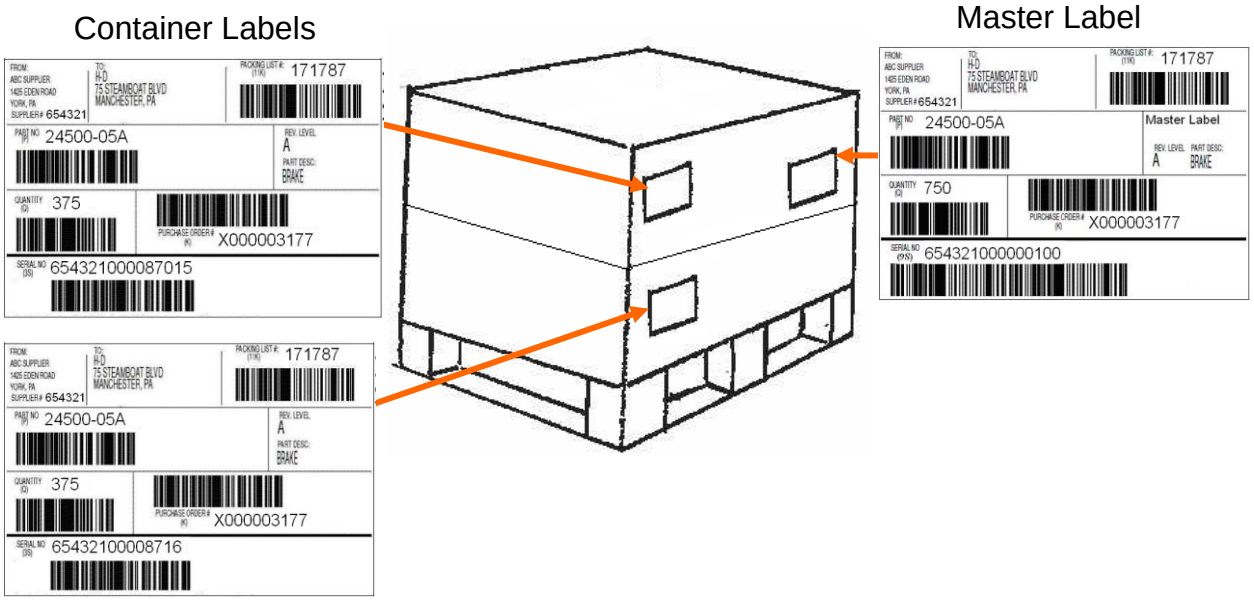
Below is how the ASN is to be set up:

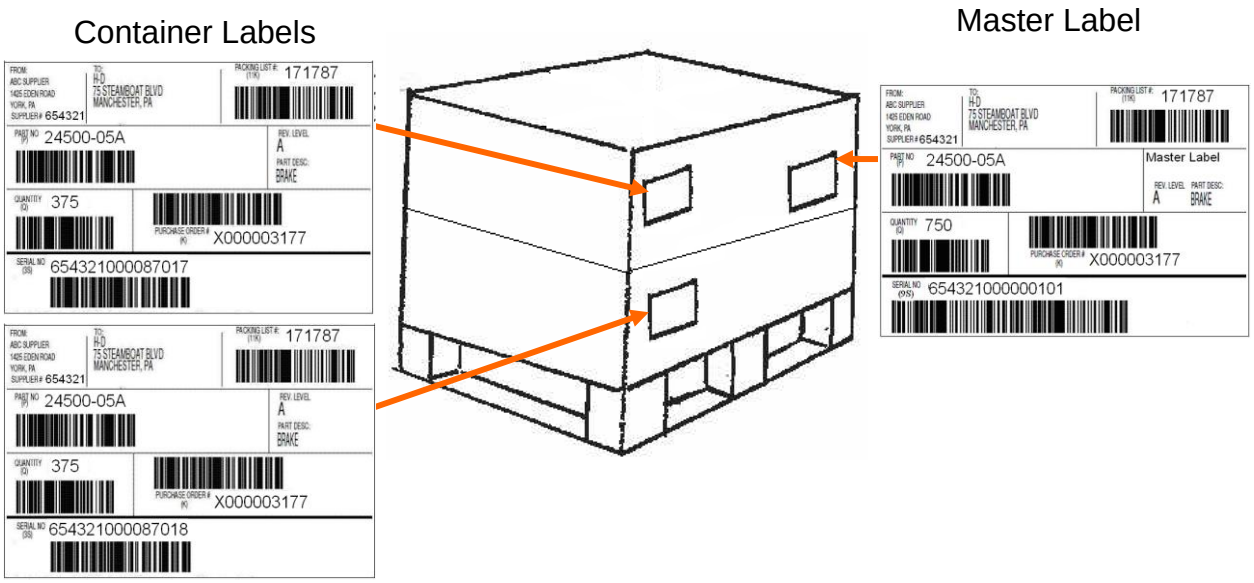
BSN*00*171787*20120827*1822	
DTM*011*20120827*1820	
HL*1**S	
MEA*PD*G*1923*LB	
TD1*PAT*3	
TD5*B*2*PITT*LT	
REF*BM*892488	
REF*CN*23987706	
N1*SI**1*1001	
N1*ST**92*1001SYC1	
N1*SU**92*654321	
REF*DK*SYC	
HL*2*1*Tµ	HL Tare Loop 1
REF*SE*654321000000100µ	Pallet 1: Master Serial Number 654321000000100 associated with P/N 24500-05A.
PAL*1****1384*LB*********1µ	
HL*3*2*Iµ	HL Item Loop for P/N 24500-05A
LIN**BP*24500-05A*DR*0*PO*X000003177µ	Part Number 24500-05A
SN1**750*EAµ	Total shipped quantity of 750
REF*LF*210T9 POUµ	
REF*RE*10718146µ	
REF*ZZ*000100078µ	P/N 24500-05A Order Schedule Delivery Line Number 000100078

CLD*2*375µ	Shipped 2 containers with 375 pieces in each
REF*LS*654321000087015µ	2 Container Serial Numbers
REF*LS*654321000087016µ	
HL*4*1*Tµ	HL Tare Loop 2
REF*SE*654321000000101µ	Pallet 2: Master Serial Number 654321000000101 associated with P/N 24500-05A.
PAL*1****1384*LB*********1µ	
HL*5*4*Iµ	HL Item Loop for P/N 24500-05A
LIN**BP*24500-05A*DR*0*PO*X000003177µ	Part Number 24500-05A
SN1**750*EAµ	Total shipped quantity of 750
REF*LF*210T9 POUµ	
REF*RE*10718146µ	
REF*ZZ*000100078µ	P/N 24500-05A Order Schedule Delivery Line Number 000100078
CLD*2*375µ	Shipped 2 containers with 375 pieces in each
REF*LS*654321000087017µ	2 Container Serial Numbers
REF*LS*654321000087018µ	

CTT (Segment created by your EDI translator. For additional information please reference Page 25 in this spec.)
SE (Segment created by your EDI translator. For additional information, please reference Page 25 in this spec.)

Data Sample 2 – Sample of How to Label Shipment





Data Sample 3 – Current Firm Order, Bulk Shipment: Pallet with Partial Container

This scenario would be applicable to other bulk containers (i.e. ropak, pallet box, and etc.) A bulk container is large, must be moved by a fork truck, and contains one part number.

The below ASN reflects one part number shipped on one pallet with one full container and the other a partial container. The part number has a unique order schedule line number. The shipment will require one Master Label for the pallet. Details of the shipment are:

Part Number 24500-05A

- Order Quantity is 750
- Current Firm Order's Schedule Line Number 000100230
- Supplier unable to fulfill the entire order of 750 and is sending 525, which is available
- Pallet 1: Master Label with Serial Number 654321000000101, total shipped quantity 525
  - Container 1 with Serial Number 654321000087015, total container quantity 375
  - Container 2 with Serial Number 654321000087016, total container quantity 150

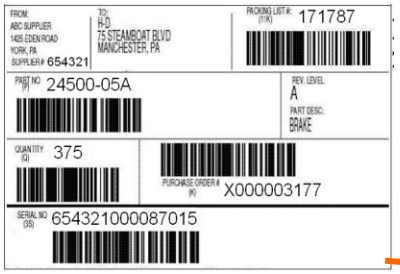
Below is how the ASN is to be set up:

BSN*00*171787*20110823*1352µ	
DTM*011*20110720*1352µ	
HL*1**Sµ	
MEA*PD*G*5221*LBµ	
TD1*PAT*1µ	
TD5*B*2*HECI*Mµ	
TD4¬123¬D¬1234µ	
REF*BM*86NXA8659ZY976µ	
REF*CN*171787µ	
N1*SI**92*1001µ	
N1*ST**92*1001S002µ	
N1*SU**92*654321µ	
REF*DK*P16µ	
SAC¬C¬G830¬240µ	
HL*2*1*Tµ	HL Tare Loop 1
REF*SE*654321000000101µ	Master Serial Number 654321000000101 associated With P/N 24500-05A
PAL*1****1384*LB********1µ	
HL*3*2*Iµ	HL Item Loop
LIN**BP*24500-05A*DR*0*PO*X000003177µ	Part Number 24500-05A
SN1**525*EAµ	Total quantity shipped is 525
REF*LF*210T9 POUµ	
REF*RE*10718146µ	
REF*ZZ*000100230µ	P/N 24500-05A Order Schedule Delivery Line Number 000100230
CLD*1*375µ	Shipped 1 container with 375

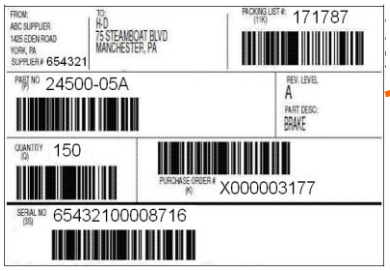
REF*LS*654321000087015µ 1 Container Serial Number
CLD*1*150µ Shipped 1 container with 150
REF*LS*654321000087016µ 1 Container Serial Number
CTT (Segment created by your EDI translator. For additional information please reference Page 25 in this spec.)
SE (Segment created by your EDI translator. For additional information, please reference Page 25 in this spec.)

Data Sample 3 – Sample of How to Label Shipment

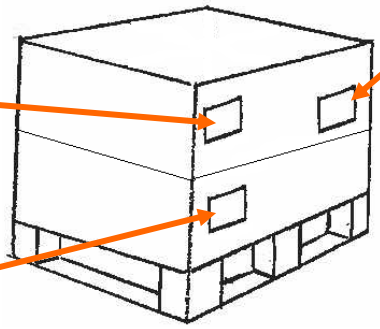
Container Labels



The above label reflects a full container quantity.



The above label reflects a partial container quantity.



Master Label

Data Example 4 – Current Firm Order, Mixed Pallet Shipment: Two Part Numbers Shipped on One Pallet

Below is an ASN that reflects one pallet with two part numbers. Each part number has a different order schedule line number. The shipment will require two Master Label, one for part number in the shipment. Each container on the pallet will require a Container Label. Details of the shipment are:

Part Number 11111-11

- Order Quantity is 120
- Current Order's Schedule Line Number 000100022
- Master Label 1 – Master Serial Number 654321015209528 total shipped quantity 100
  - 12 Container Labels with Serial Numbers 123456000000025 – 123456000000036, each label containing a quantity of 10

Part Number 22222-22

- Order Quantity is 120
- Current Order's Schedule Line Number 000100035
- Master Label 2 – Master Serial Number 654321015209529, total shipped quantity 120
  - 12 Container Labels with Serial Numbers 123456000000037 – 123456000000048, each label containing a quantity of 10

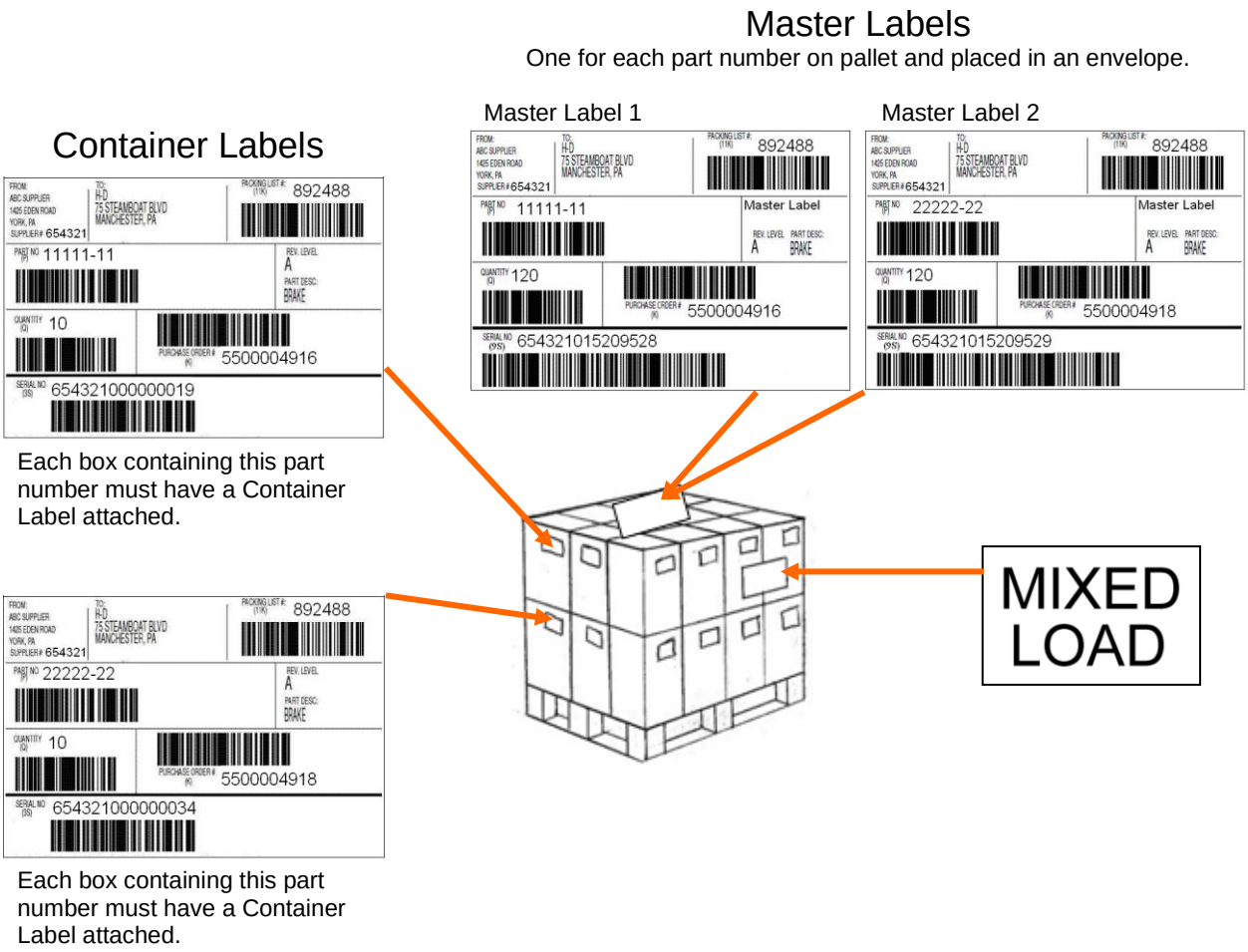
Below is how the ASN is to be set up:

BSN*00*892488*20120827*1822	
DTM*011*20120827*1820	
HL*1**S	
MEA*PD*G*1923*LB	
TD1*PAT*3	
TD5*B*2*PITT*LT	
REF*BM*892488	
REF*CN*23987706	
N1*SI**1*1001	
N1*ST**92*1001SYC1	
N1*SU**92*654321	
REF*DK*SYC	
HL*2*1*T	HL Tare Loop 1
REF*SE*654321015209528	Master Serial Number 654321015209528 associated with P/N 11111-11
PAL*1****548*LB*********1	
HL*3*2*I	Item Loop for P/N 11111-11
LIN**BP*11111-11***PO*5500004916	P/N 11111-11
SN1**120*EA	Total shipped quantity of 120
REF*RE*10	
REF*ZZ*000100022µ	P/N 11111-11 Order Schedule Delivery Line Number 000100022

CLD*12*10	Shipped in 12 containers with 10 pieces in each
REF*LS*123456000000025	12 Container Serial Numbers
REF*LS*123456000000026	
REF*LS*123456000000027	
REF*LS*123456000000028	
REF*LS*123456000000029	
REF*LS*123456000000030	
REF*LS*123456000000031	
REF*LS*123456000000032	
REF*LS*123456000000033	
REF*LS*123456000000034	
REF*LS*123456000000035	
REF*LS*123456000000036	
HL*4*1*T	HL Tare Loop 2
REF*SE*654321015209529	Master Serial Number 654321015209529 associated with P/N 22222-22
PAL*1****548*LB*********1	
HL*5*4*I	Item Loop for P/N 22222-22
LIN**BP*22222-22***PO*5500004918	P/N 22222-22
SN1**120*EA	Total shipped quantity of 120
REF*RE*5	
REF*ZZ*000100035µ	P/N 22222-22 Order Schedule Delivery Line Number 000100035
CLD*12*10	Shipped in 12 containers with 10 pieces in each
REF*LS*123456000000037	12 Container Serial Numbers
REF*LS*123456000000038	
REF*LS*123456000000039	
REF*LS*123456000000040	
REF*LS*123456000000041	
REF*LS*123456000000042	
REF*LS*123456000000043	
REF*LS*123456000000044	
REF*LS*123456000000045	
REF*LS*123456000000046	
REF*LS*123456000000047	
REF*LS*123456000000048	

CTT (Segment created by your EDI translator. For additional information please reference Page 25 in this spec.)
SE (Segment created by your EDI translator. For additional information, please reference Page 25 in this spec.)

Data Sample 4 – Sample of How to Label Shipment



Data Example 5 – Current Firm Order, Mixed Pallet and Bulk Shipment: Three Part Numbers Shipped on Two Pallets

Below is an ASN that reflects two pallets (one mixed pallet and one pallet with one part number), with three part numbers. Each part number has a different order schedule line number. The shipment will require three Master Label, one for part number in the shipment. Each container on the pallet will require a Container Label. Details of the shipment are:

Part Number 12345-67

- Order Quantity is 240
- Current Firm Order's Schedule Line Number 000100100
- Pallet 1: Master Label with Serial Number 654321015209527, total shipped quantity 240
    - 24 Container Labels with Serial Numbers 123456000000001 – 12345600000002, each label containing a quantity of 10

Part Number 11111-11

- Order Quantity is 120
- Current Order's Schedule Line Number 000100022
- Pallet 2: Master Label with Serial Number 654321015209528, total shipped quantity 120
    - 12 Container Labels with Serial Numbers 123456000000025 – 123456000000036, each label containing a quantity of 10

Part Number 22222-22

- Order Quantity is 120
- Current Order's Schedule Line Number 000100035
- Pallet 2: Master Label with Serial Number 654321015209529, total shipped quantity 120
    - 12 Container Labels with Serial Numbers 123456000000037 – 123456000000048, each label containing a quantity of 10

Below is how the ASN is to be set up:

BSN*00*892488*20120827*1822	
DTM*011*20120827*1820	
HL*1**S	
MEA*PD*G*1923*LB	
TD1*PAT*3	
TD5*B*2*PITT*LT	
REF*BM*892488	
REF*CN*23987706	
N1*SI**1*1001	
N1*ST**92*1001SYC1	
N1*SU**92*654321	
REF*DK*SYC	
HL*2*1*T	HL Tare Loop 1
REF*SE*654321015209527	Master Serial Number 123456015209527 associated with P/N 12345-67
PAL*1****576*LB*********1	
HL*3*2*I	Item Loop for P/N 12345-67
LIN**BP*12345-67***PO*5500001234	P/N 12345-67
SN1**240*EA	Total shipped quantity of 240
REF*RE*10	
REF*ZZ*000100100µ	P/N 12345-67 Order Schedule Delivery Line Number *000100100
CLD*24*10	Shipped in 24 containers with 10 pieces in each on a pallet.
REF*LS*123456000000001	24 Container Serial Numbers
REF*LS*123456000000002	
REF*LS*123456000000003	
REF*LS*123456000000004	
REF*LS*123456000000005	
REF*LS*123456000000006	
REF*LS*123456000000007	
REF*LS*123456000000008	
REF*LS*123456000000009	
REF*LS*123456000000010	
REF*LS*123456000000011	
REF*LS*123456000000012	
REF*LS*123456000000013	
REF*LS*123456000000014	
REF*LS*123456000000015	
REF*LS*123456000000016	
REF*LS*123456000000017	
REF*LS*123456000000018	
REF*LS*123456000000019	
REF*LS*123456000000020	
REF*LS*123456000000021	
REF*LS*123456000000022	
REF*LS*123456000000023	
REF*LS*123456000000024	
HL*4*1*T	HL Tare Loop 2
REF*SE*654321015209528	Master Serial Number 654321015209528 associated with P/N 11111-11
PAL*1****548*LB*********1	
HL*5*4*I	Item Loop for P/N 11111-11
LIN**BP*11111-11***PO*5500004916	P/N 11111-11
SN1**120*EA	Total shipped quantity of 120

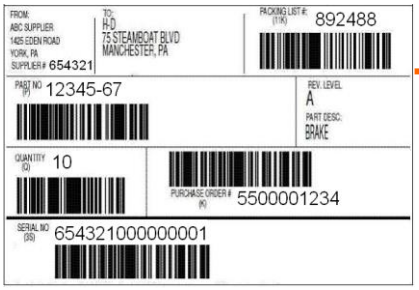
REF*RE*10	
REF*ZZ*000100022µ	P/N 11111-11 Order Schedule Delivery Line Number 000100022
CLD*12*10	Shipped in 12 containers with 10 pieces in each
REF*LS*123456000000025	Unique container serial numbers
REF*LS*123456000000026	
REF*LS*123456000000027	
REF*LS*123456000000028	
REF*LS*123456000000029	
REF*LS*123456000000030	
REF*LS*123456000000031	
REF*LS*123456000000032	
REF*LS*123456000000033	
REF*LS*123456000000034	
REF*LS*123456000000035	
REF*LS*123456000000036	
HL*6*1*T	HL Tare Loop 3
REF*SE*654321015209529	Master Serial Number 654321015209529 associated with P/N 22222-22
PAL*1****548*LB*********1	
HL*7*6*I	Item Loop for P/N 22222-22
LIN**BP*22222-22***PO*5500004918	P/N 22222-22
SN1**120*EA	Total shipped quantity of 120
REF*RE*5	
REF*ZZ*000100035µ	P/N 22222-22 Order Schedule Delivery Line Number 000100035
CLD*12*10	Shipped in 12 containers with 10 pieces in each
REF*LS*123456000000037	Unique container serial numbers
REF*LS*123456000000038	
REF*LS*123456000000039	
REF*LS*123456000000040	
REF*LS*123456000000041	
REF*LS*123456000000042	
REF*LS*123456000000043	
REF*LS*123456000000044	
REF*LS*123456000000045	
REF*LS*123456000000046	
REF*LS*123456000000047	
REF*LS*123456000000048	

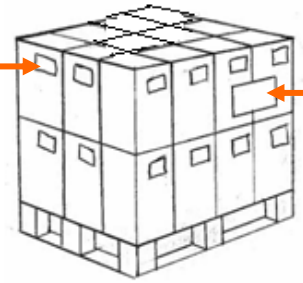
CTT (Segment created by your EDI translator. For additional information please reference Page 25 in this spec.)
SE (Segment created by your EDI translator. For additional information, please reference Page 25 in this spec.)

Data Sample 5 – Sample of How to Label Shipment

Pallet 1

Container Label





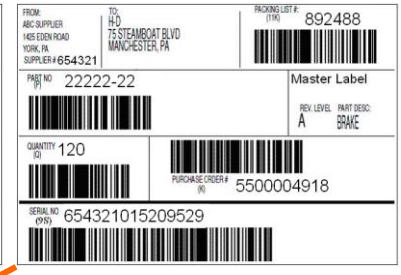
Master Label

Each box on the pallet will must have a Container Label attached.

Pallet 2 – Mixed Pallet

Master Labels

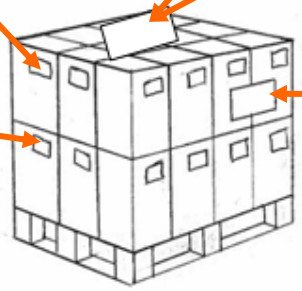
One for each part number on pallet and placed in an envelope.



Container Labels

Each box containing this part number must have a Container Label attached.

Each box containing this part number must have a Container Label attached.



MIXED LOAD

Data Example 6 – Current Firm Order, Loose Containers: Part Number in Loose Containers

The below ASN reflects one part number shipped in three small loose containers via United Parcel Service (or similar carrier). The part number has a unique order schedule line number. The shipment will require one Master Label summarizing the contents in the three loose containers. Details of the shipment are:

Part Number 33333-33

- Order Quantity is 30
- Current Firm Order's Schedule Line Number 000100005
- Container 1: Container Label with Serial Number 654321000000001, container quantity of 10
- Container 2: Container Label with Serial Number 654321000000002, container quantity of 10
- Container 3:
  - Container Label with Serial Number 654321000000003, container quantity of 10
  - Master Label with Serial Number 654321015209527, total shipped quantity of 30

Below is how the ASN is to be set up:

BSN*00*892488*20120827*1822	
DTM*011*20120827*1820	
HL*1**S	
MEA*PD*G*1923*LB	
TD1*PAT*3	
TD5*B*2*PITT*LT	
REF*BM*892488	
REF*CN*23987706	
N1*SI**1*1001	
N1*ST**92*1001SYC1	
N1*SU**92*654321	
REF*DK*SYC	
HL*2*1*T	HL Tare Loop 1
REF*SE*654321015209527	Master Serial Number 654321015209527 associated with P/N 33333-33
PAL*1****576*LB*********1	
HL*3*2*I	Item Loop for P/N 33333-33
LIN**BP*33333-33***PO*5500001234	P/N 33333-33
SN1**30*EA	Total shipped quantity of 30
REF*RE*10	
REF*ZZ*000100005µ	P/N 33333-33 Order Schedule Delivery Line Number 000100005
CLD*3*10	Shipped in 3 containers with 10 pieces in each
REF*LS*654321000000001	3 Container Serial Numbers
REF*LS*654321000000002	
REF*LS*654321000000003	

CTT (Segment created by your EDI translator. For additional information please reference Page 25 in this spec.)
SE (Segment created by your EDI translator. For additional information, please reference Page 25 in this spec.)

Data Sample 6 – Sample of How to Label Shipment

Data Example 7 – Current Firm Order, Loose Containers: Two Part Numbers Shipped in Five Loose Containers

The below ASN reflects two part number shipped in five small loose containers via United Parcel Service (or similar carrier). Each part number has a unique order schedule line number. The shipment will require two Master Label, one for each part number, summarizing the contents in the loose containers. Details of the shipment are:

Part Number 33333-33

- Order Quantity is 30
- Current Firm Order's Schedule Line Number 000100123
- Container 1: Container Label with Serial Number 654321000000001, container quantity of 10
- Container 2: Container Label with Serial Number 654321000000002, container quantity of 10
- Container 3:
  - Container Label with Serial Number 654321000000003, container quantity of 10
  - Master Label with Serial Number 654321015209527, total shipped quantity of 30

Part Number 24300-05A

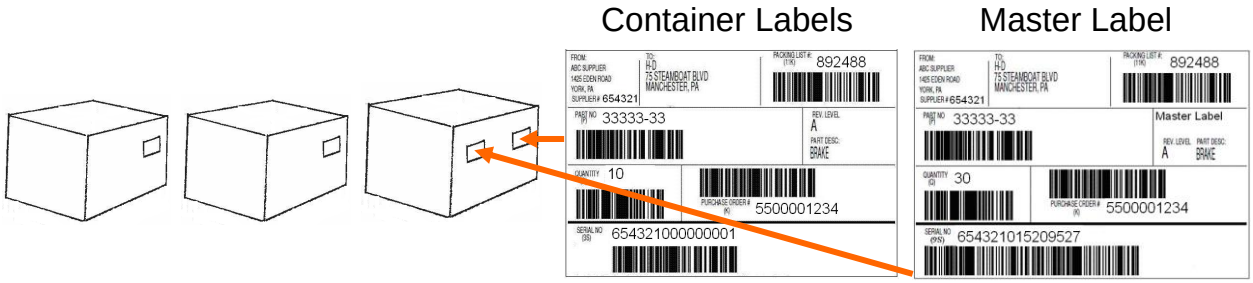
- Order Quantity is 20
- Current Firm Order's Schedule Line Number 000100150
- Container 1: Container Label with Serial Number 654321000000019, container quantity of 10
- Container 2:
  - Container Label with Serial Number 654321000000020, container quantity of 10
  - Master Label with Serial Number 654321100000102, total shipped quantity of 30

Below is how the ASN is to be set up:

BSN*00*892488*20120827*1822	
DTM*011*20120827*1820	
HL*1**S	
MEA*PD*G*1923*LB	
TD1*PAT*3	
TD5*B*2*PITT*LT	
REF*BM*892488	
REF*CN*23987706	
N1*SI**1*1001	
N1*ST**92*1001SYC1	
N1*SU**92*654321	
REF*DK*SYC	
HL*2*1*T	HL Tare Loop 1
REF*SE*654321015209527	Master Serial Number 654321015209527 associated with P/N 33333-33
PAL*1****576*LB*********1	
HL*3*2*I	Item Loop for P/N 33333-33
LIN**BP*33333-33***PO*5500001234	P/N 33333-33
SN1**30*EA	Total shipped quantity of 30
REF*RE*10	
REF*ZZ*000100123µ	P/N 33333-33 Order Schedule Delivery Line Number 000100123
CLD*3*10	Shipped in 3 containers with 10 pieces in each
REF*LS*654321000000001	3 Container Serial Numbers
REF*LS*654321000000002	
REF*LS*654321000000003	
HL*4*1*T	HL Tare Loop 2
REF*SE*654321100000102	Master Serial Number 654321100000102 associated with P/N 24300-05A
PAL*1****548*LB*********1	
HL*5*4*I	Item Loop for P/N 24300-05A
LIN**BP*24300-05A***PO*X000003179	P/N 24300-05A
SN1**20*EA	Total shipped quantity of 20
REF*RE*10	
REF*ZZ*000100150µ	P/N 24300=05A Order Schedule Delivery Line Number 000100150
CLD*2*10	Shipped in 2 containers with 10 pieces in each
REF*LS*654321000087019	2 Container Serial Numbers
REF*LS*654321000087020	

CTT (Segment created by your EDI translator. For additional information please reference Page 25 in this spec.)
SE (Segment created by your EDI translator. For additional information, please reference Page 25 in this spec.)

Data Sample 7 – Sample of How to Label Shipment



Each box containing this part number must have a Container Label attached.

Each box containing this part number must have a Container Label attached.

Data Sample 8 – Two Orders, Bulk Shipment: One Part Number Shipped on Multiple Pallets

The two orders can be:

- a past due order and a current firm order, or
- current firm order and a future firm order

This scenario would be applicable to other bulk containers (i.e. ropak, pallet box, pallet, and etc.). A bulk container is large, must be moved by a fork truck, and contains one part number.

The below ASN reflects one part number shipped on two pallets against a past due order and a current/future firm order. There will be two unique order schedule line numbers since two orders are being shipped. The shipment will require two Master Label, one for each ropak. Details of the shipment are:

Part Number 24500-05A

- Order 1 is 750
- Order 1's Schedule Line Number is 000100125
- Order 2 is 750
- Order 2's Schedule Delivery Line is 000100100
- Pallet 1
  - Order 1's Schedule Line Number 000100125
  - Master Serial Number 65432100000100, total shipped quantity of 750
  - Container Serial Numbers 654321000087015 and 654321000087016, each label containing a quantity of 375
- Pallet 2
  - Order 2's Schedule Line Number 000100100
  - Master Serial Number 654321000000101, total shipped quantity of 750
  - Container Serial Numbers 654321000087017 and 654321000087018, each label containing a quantity of 375

Below is how the ASN is to be set up:

```
BSN*00*892488*20120827*1822
DTM*011*20120827*1820
HL*1**S
MEA*PD*G*1923*LB
TD1*PAT*3
TD5*B*2*PITT*LT
REF*BM*892488
REF*CN*23987706
N1*SI**1*1001
N1*ST**92*1001SYC1
N1*SU**92*654321
REF*DK*SYC
HL*2*1*T                          HL Tare Loop 1 for Pallet 1
REF*SE*654321015209527            Master Serial Number 123456015209527 associated
                                  with P/N 24500-05A
```

PAL*1****576*LB*********1	
HL*3*2*I	Item Loop for P/N 24500-05A
LIN**BP*24500-05A***PO*X000003177	P/N 24500-05A
SN1**750*EA	Total shipped quantity of 750
REF*RE*354	
REF*ZZ*000100125µ	Order 1's Schedule Line Number 000100125
CLD*2*375	Two containers with a quantity of 375 in each
REF*LS*654321000087015µ	2 Container Serial Numbers
REF*LS*654321000087016µ	
HL*4*1*T	HL Tare Loop 3 for Pallet 2
REF*SE*654321000000101	Master Serial Number 654321000000101 associated with P/N 24500-05A
PAL*1****548*LB*********1	
HL*5*4*I	Item Loop for P/N 24500-05A
LIN**BP*24500-05A***PO*X000003177	P/N 24500-05A
SN1**750*EA	Total shipped quantity of 750
REF*RE*10	
REF*ZZ*000100100µ	Order 2's Schedule Line Number 000100100
CLD*2*375	Two containers with a quantity of 375 in each.
REF*LS*654321000087017µ	2 Container Serial Numbers
REF*LS*654321000087018µ	

CTT (Segment created by your EDI translator. For additional information please reference Page 25 in this spec.)
SE (Segment created by your EDI translator. For additional information, please reference Page 25 in this spec.)

Data Sample 8 – Sample of How to Label Shipment

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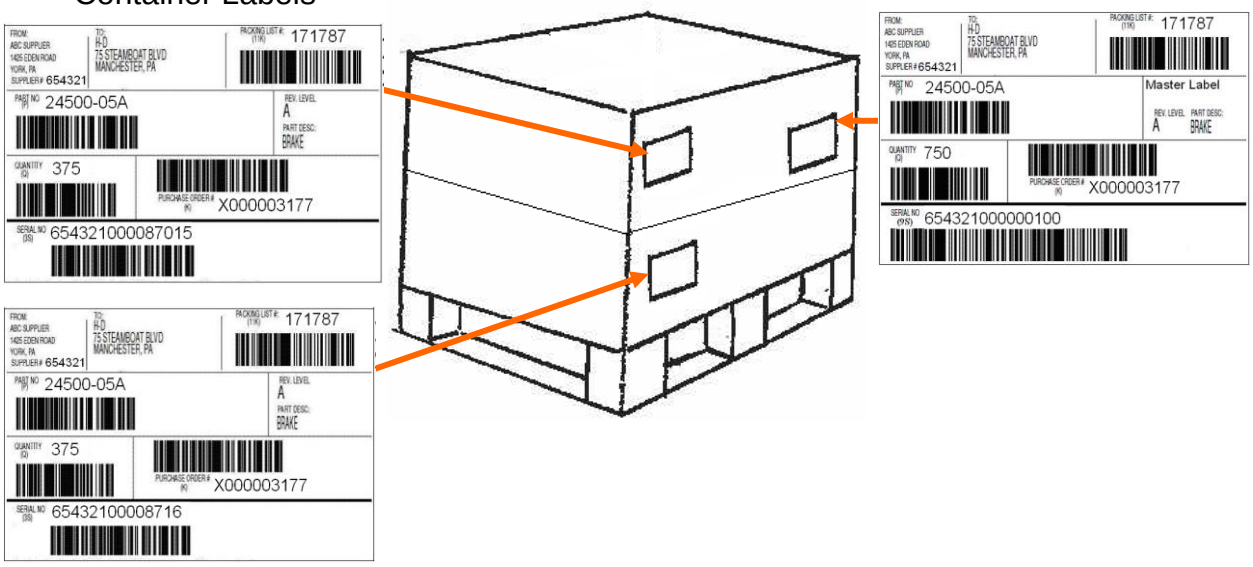
Pallet 1 – Past Due Order

Container Labels

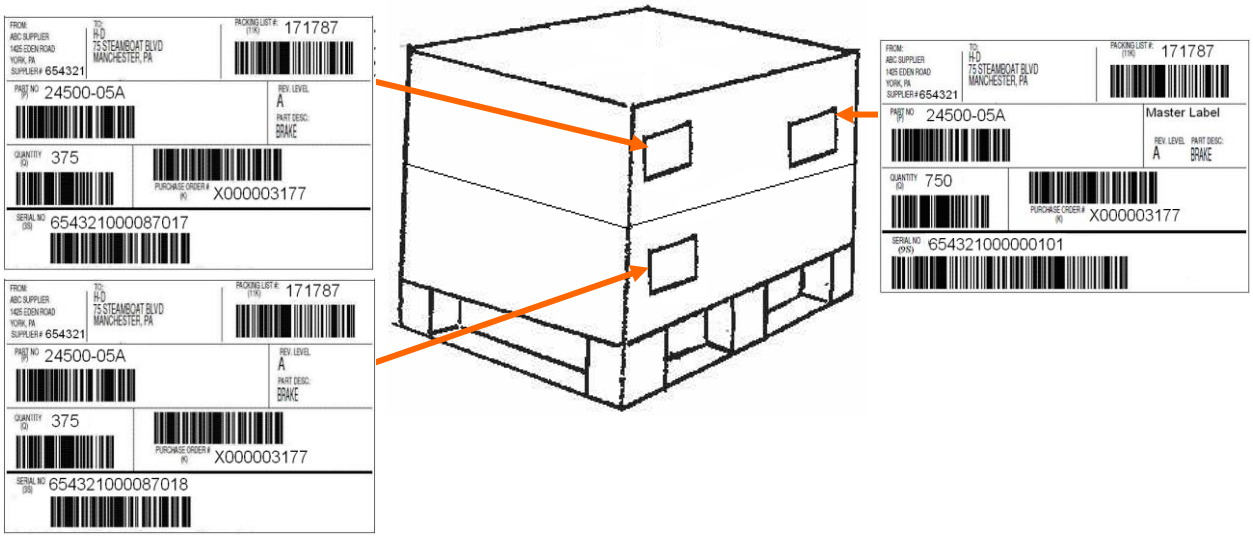
Master Label



Pallet 2 – Current Firm Order

Container Labels

Master Label



Data Sample 9 – Two Orders, Mixed Pallet Shipment: One Part Number, Multiple Orders Shipped on One Pallet

The two orders can be:

- a past due order and a current firm order, or
- current firm order and a future firm order

The below ASN reflects one part number shipped on one pallets against a past due order and a current/future firm order. There will be two unique order schedule line numbers since two orders are being shipped. The shipment will require two Master Labels, one for each part number/schedule delivery line number. Details of the shipment are:

Part Number 11111-11

- Order 1 is 120
- Order 1's Schedule Line Number 000100125
- Order 2 is 120
- Order 2's Schedule Line Number 000100100
  - Master Label 1 – Serial Number 654321015209528, total shipped quantity of 120
    - Order 1's Schedule Line Number 000100125
    - Container Serial Numbers 654321000087001 – 654321000087012, each label containing a quantity of 10
  - Master Label 2 – Serial Number 654321015209529, total shipped quantity of 120
    - Order 2's Schedule Line Number 000100125
    - Container Serial Numbers 654321000087013 – 654321000087024, total shipped quantity of 120

Below is how the ASN is to be set up:

```
BSN*00*892488*20120827*1822
DTM*011*20120827*1820
HL*1**S
MEA*PD*G*1923*LB
TD1*PAT*3
TD5*B*2*PITT*LT
REF*BM*892488
REF*CN*23987706
N1*SI**1*1001
N1*ST**92*1001SYC1
N1*SU**92*654321
REF*DK*SYC
HL*2*1*T                          HL Tare Loop 1 for Master Label 1
REF*SE*654321015209528            Master Serial Number 123456015209528 associated
                                        with P/N 11111-11
PAL*1****576*LB*********1
HL*3*2*I                          Item Loop for P/N 11111-11
```

LIN**BP*11111-11***PO*5500004916	P/N 11111-11
SN1**120*EA	Total shipped quantity of 120
REF*RE*354	
REF*ZZ*000100125µ	Order 1's Schedule Line Number 000100125
CLD*12*10	12 containers with a quantity of 10 in each
REF*LS*654321000087001µ	12 Container Serial Numbers
REF*LS*654321000087002µ	
REF*LS*654321000087003µ	
REF*LS*654321000087004µ	
REF*LS*654321000087005µ	
REF*LS*654321000087006µ	
REF*LS*654321000087007µ	
REF*LS*654321000087008µ	
REF*LS*654321000087009µ	
REF*LS*654321000087010µ	
REF*LS*654321000087011µ	
REF*LS*654321000087012µ	
HL*4*1*T	HL Tare Loop 3 for Master Label 2
REF*SE*654321015209529	Master Serial Number 654321015209529 associated with P/N 11111-11
PAL*1****548*LB*********1	
HL*5*4*I	Item Loop for P/N 11111-11
LIN**BP*11111-11***PO*5500004916	P/N 11111-11
SN1**120*EA	Total shipped quantity of 120
REF*RE*10	
REF*ZZ*000100100µ	Order 2's Schedule Line Number 000100100
CLD*12*10	12 containers with a quantity of 10 in each.
REF*LS*654321000087013µ	12 container serial numbers
REF*LS*654321000087014µ	
REF*LS*654321000087015µ	
REF*LS*654321000087016µ	
REF*LS*654321000087017µ	
REF*LS*654321000087018µ	
REF*LS*654321000087019µ	
REF*LS*654321000087020µ	
REF*LS*654321000087021µ	
REF*LS*654321000087022µ	
REF*LS*654321000087023µ	
REF*LS*654321000087024µ	

CTT (Segment created by your EDI translator. For additional information please reference Page 25 in this spec.)
SE (Segment created by your EDI translator. For additional information, please reference Page 25 in this spec.)

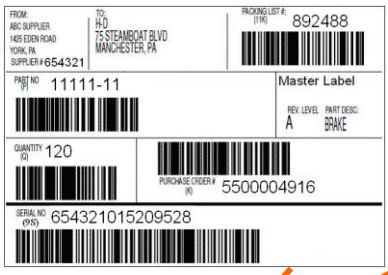
Data Sample 9 – Sample of How to Label Shipment

Mixed Pallet

Master Labels

One for each part number / Schedule Delivery Line combination on pallet and placed in an envelope.

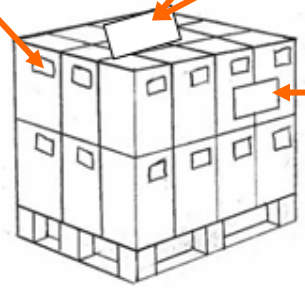
Master Label 1



Master Label 2

Container Labels

Each box on the pallet must have a Container Label attached.



MIXED LOAD

Data Sample 10 – Two Orders, Loose Container Shipment: Part Number in Loose Containers

The two orders can be:

- a past due order and a current firm order, or
- current firm order and a future firm order

The below ASN reflects one part number shipped in several small loose containers via United Parcel Service (or similar carrier). The shipment will include a past due order, current/future firm order and each order having a unique order schedule line number. The shipment will require two Master Label one for each part number / schedule delivery line number combination. Details of the shipment are:

Part Number 33333-33

- Order 1 is 30
- Order 1's Schedule Line Number 000100025
- Order 2 is 30
- Order 2's Schedule Line Number 000100005
- Master Label 1 – Serial Number 654321015209527 with total shipped quantity of 30, which is attached to Container 3 with Container Serial Number 654321000000003
  - Container Serial Numbers 654321000000001 – 654321000000001, each label with a quantity of 10
- Master Label 2 – Serial Number 65432101529528 with total shipped quantity of 30, which is attached to Container 6 with Container Serial Number 654321000000006
  - Container Serial Numbers 654321000000004 – 654321000000006, each label with a quantity of 10

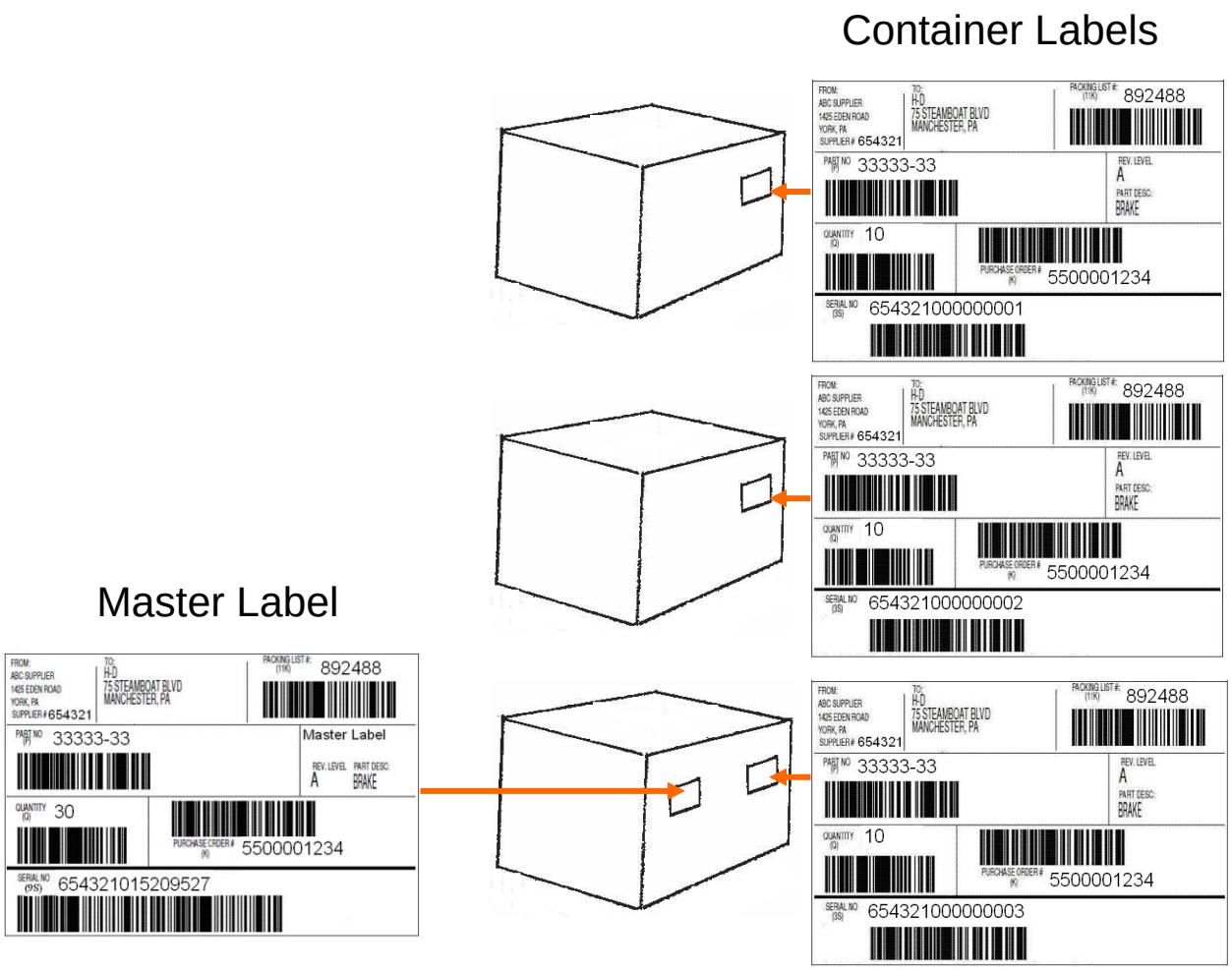
Below is how the ASN is to be set up:

BSN*00*892488*20120827*1822	
DTM*011*20120827*1820	
HL*1**S	
MEA*PD*G*1923*LB	
TD1*PAT*3	
TD5*B*2*PITT*LT	
REF*BM*892488	
REF*CN*23987706	
N1*SI**1*1001	
N1*ST**92*1001SYC1	
N1*SU**92*654321	
REF*DK*SYC	
HL*2*1*T	HL Tare Loop 1
REF*SE*654321015209527	Master Serial Number 654321015209527 associated with P/N 33333-33
PAL*1****576*LB*********1	
HL*3*2*I	Item Loop for P/N 33333-33
LIN**BP*33333-33***PO*5500001234	P/N 33333-33
SN1**30*EA	Total shipped quantity of 30
REF*RE*10	
REF*ZZ*000100005µ	Order 2's Schedule Line Number 000100005
CLD*3*10	Shipped in 3 containers with 10 pieces in it
REF*LS*654321000000001	3 Container Serial Numbers
REF*LS*654321000000002	
REF*LS*654321000000003	
HL*4*1*T	HL Tare Loop 1
REF*SE*654321015209528	Master Serial Number 654321015209528 associated with P/N 33333-33
PAL*1****576*LB*********1	
HL*5*4*I	Item Loop for P/N 33333-33
LIN**BP*33333-33***PO*5500001234	P/N 33333-33
SN1**30*EA	Total shipped quantity of 30
REF*RE*10	
REF*ZZ*000100025µ	Order 1's Schedule Line Number 000100025
CLD*3*10	Shipped in 3 containers with 10 pieces in it
REF*LS*654321000000004	3 Container Serial Numbers
REF*LS*654321000000005	
REF*LS*654321000000006	

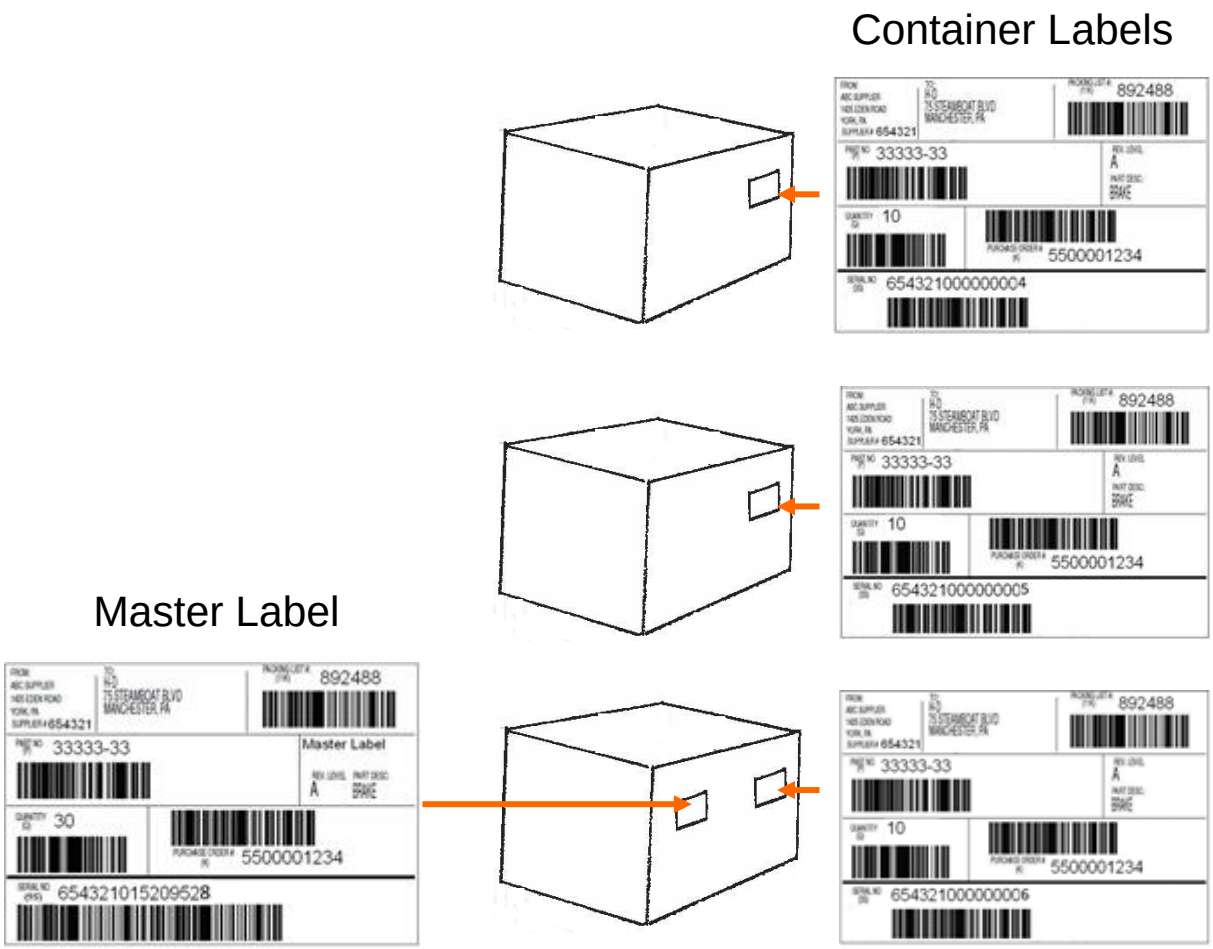
CTT (Segment created by your EDI translator. For additional information please reference Page 25 in this spec.)
SE (Segment created by your EDI translator. For additional information, please reference Page 25 in this spec.)

Data Sample 10 – Sample of How to Label Shipment

Master Label 1 - Current Firm Order



Master Label 2 - Past Due Order



Below are the testing requirements:

- Please contact the Harley-Davidson EDI Department at HD-EDIAdmin@harley-davidson.com for testing.

- Test will require two ASNs with the following information:

    - ASN 1 – bulk containers (a large container that must be moved by a fork truck)
        - Two bulk containers of Part A
        - Mixed pallet with Part B and Part C
        - BSN 02 = TESTBULK
        - N1 SI 04 = 062629324
        - N1 ST 04 = 717852169
        - N1 SU 04 = Your company's H-D Supplier ID
        - ASNs must meet all ANSI X12, 004010 guidelines.

    - ASN 2 – loose boxes
        - Part A, one box
        - Part B, two boxes
        - BSN 02 = TESTLOOS
        - N1 SI 04 = 062629324
        - N1 ST 04 = 717852169
        - N1 SU 04 = Your company's H-D Supplier ID
        - ASNs must meet all ANSI X12, 004010 guidelines.

- If your company does not ship in all three shipping scenarios, then the test will consist of the shipping scenarios that will be used with H-D.

- Please email to me the test ASNs in .edi or .txt format and indicate whether it is test ASN 1 or test ASN 2.

- Container and Master Labels matching the data in the test ASNs must be submitted at the same time as the test ASNs. Labels can be emailed in a .PDF file format.

Documentation Updates

January 2014 Update

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

May 1, 2014

- REF RE 02: Added 414343713 to the statement: If N1 SI 04 equals 4143438416 and 414343713, then enter the PO Line Item Number from the 850's PO101
- PAL 06: Correct the Min/Max from 1/2 to 2/2.
- PAL 15: Corrected the Attributes Req value for the H-D requirements from Optional to Mandatory

December 1, 2014

- Added new REF ZZ (Schedule Line Number) segment in the Detail - Item section.
- Revised Data Sample narratives for Samples 1, 2, 3, 4, 6, and 7, which contain a Current Firm Order
- Added Data Sample 5, which contain a Current Firm Order
- Added Data Samples 8, 9, 11 which contains a Past Due Order and Current Firm Order.

March 11, 2015

- Removed data samples for P&A, General Merchandise, and Supplier Direct because the remaining data samples will apply to their business.
- Deleted the P&A, General Merchandise and Supplier Direct testing requirements as all the H-D businesses can use the same testing requirements

July 2019

- Updated to support PAC/GM/Dealer Direct move to SAP(GT-R4)