



**Trading Partner Labels  
Using Linear and 2D Symbols  
SPEC: AIAG B-10  
Version: (06/04)**

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# Document Control

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<b>Rev</b>	<b>Date</b>	<b>Author</b>	<b>Purpose for Change</b>
1.0	August 18, 2010	S. Nagarajan	Creation of Implementation Guide
1.1	March 1, 2011	R. Heether	Added text, formatting/modification, and label examples.
1.2	March 9, 2011	R. Heether	Updated terminology, added text, moved placement of Packing List on the illustrations, described scenario for multiple P.O.s with same part number, added certification process instructions.
1.3	March 9, 2011	S. Nagarajan	Updated Pictures and graphics
1.4	March 14, 2011	S. Nagarajan	Updated text to make it clear

# Transport Handling Unit Labels

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CNH has aligned its barcode label standard with the Automotive Industry Action Group (AIAG) B-10 barcode label, which utilizes Code 128 Symbology. All suppliers are required to apply these labels to all Transport Handling Units (THU) that are shipped to CNH facilities.

By following the steps outlined in this guideline, we can jointly implement this program, and derive the following benefits for our companies:

- Allows material to be quickly and accurately received
- Facilitates real-time reporting of material movement and usage
- Reduces invoice discrepancies by improving CNH's receiving process

Every transport handling unit must contain the following:

Destination Label

Master Label

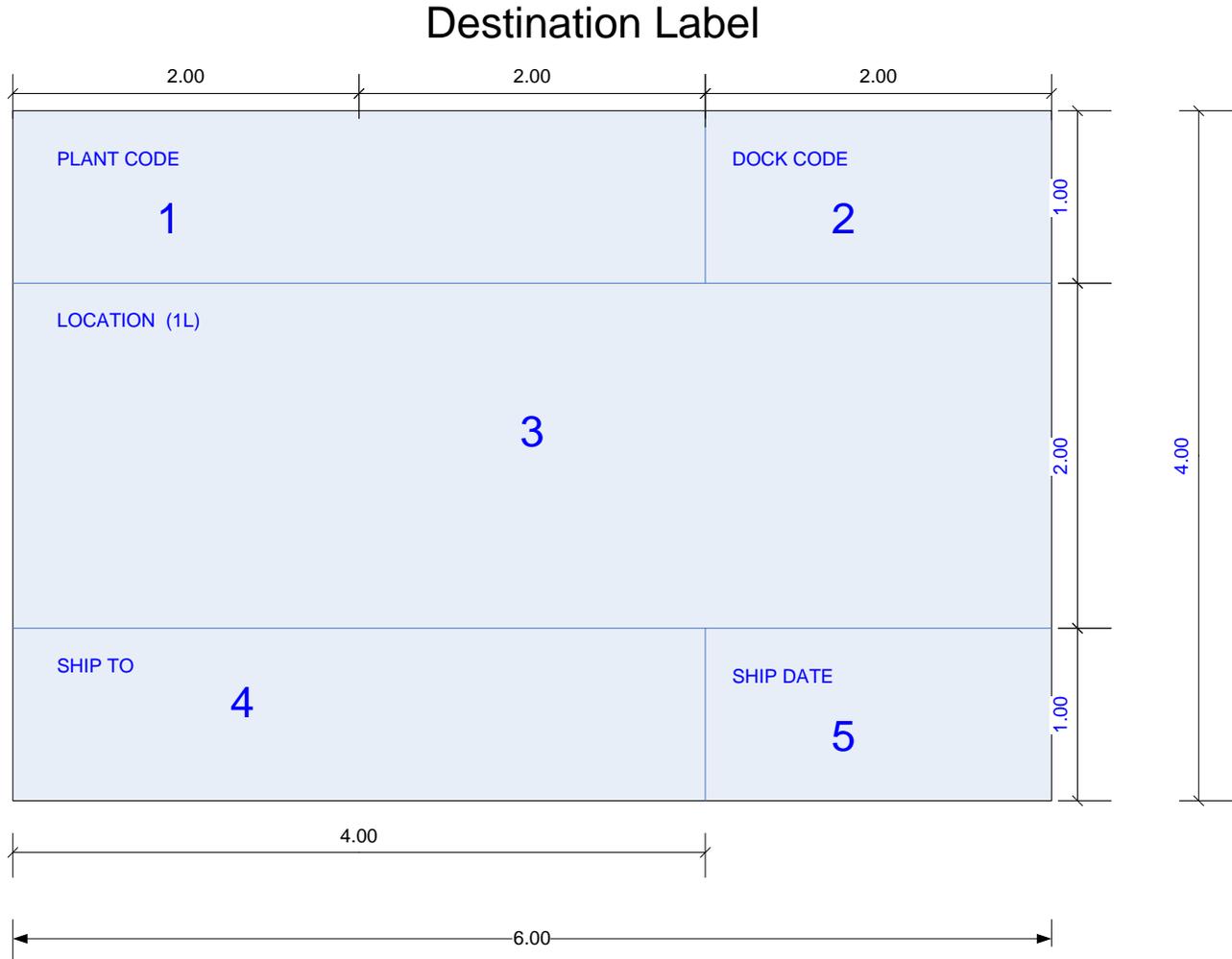
Mixed Master Label and Mixed Load Label (if needed)

Packing List

Following are examples of the CNH Standard Barcode Labels, along with a description of each field. Also included is the corresponding EDI field that contains the data to be provided on the barcode label.

# Destination Label (Size: 4 x 6)

## Destination Label (Size: 4 x 6)



### Field Descriptions:

#### Block 1: Plant Name

Block Title = PLANT NAME

Data = CNH Destination Plant Name

Maximum Length = 1 lines of text (2 LPB = 0.40"= 11 mm)

Data Source:

CSCN Delivery Schedules Plant Name

EDI 830 – Buying Party N1\*02 with Qualifier BY

# Destination Label (Size: 4 x 6)

## Field Descriptions:

### Block 2: Dock Code/Ship To Code

Block Title = DOCK CODE

Data = CNH Ship To Code

Maximum Length = 1 lines of text (2 LPB = 0.40"= 11 mm)

Data Source:

CSCN Delivery Schedules Ship-To Code

EDI 830 – Ship-To N1\*04 with Qualifier ST

### Block 3: Location

Block Title = LOCATION/PLANT CODE

Data = CNH Destination Plant Code

Double Block

Maximum Length = 1 lines of text (4 LPB = 0.20"= 5 mm)

Data Source:

CSCN Delivery Schedules Plant Code

EDI 830 – Buying Party N1\*04 with Qualifier BY

### Block 4: Ship-To Address

Block Title = SHIP TO

Data = CNH Destination Plant Name and Address

Maximum Length = 1 lines of text (2 LPB = 0.40"= 11 mm)

Data Source:

CSCN Delivery Schedules Ship To Address

EDI 830 – Ship-To N1\*02 with Qualifier ST and N3 and N4

### Block 5: Ship Date

Block Title = SHIP DATE

Data = SHIP DATE

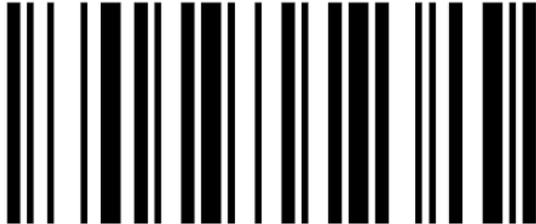
Maximum Length = 1 lines of text (2 LPB = 0.40"= 11 mm)

Data Source:

CSCN Planned Shipment – Ship Date

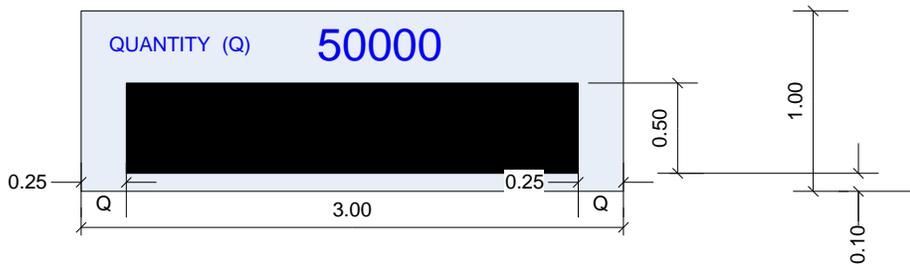
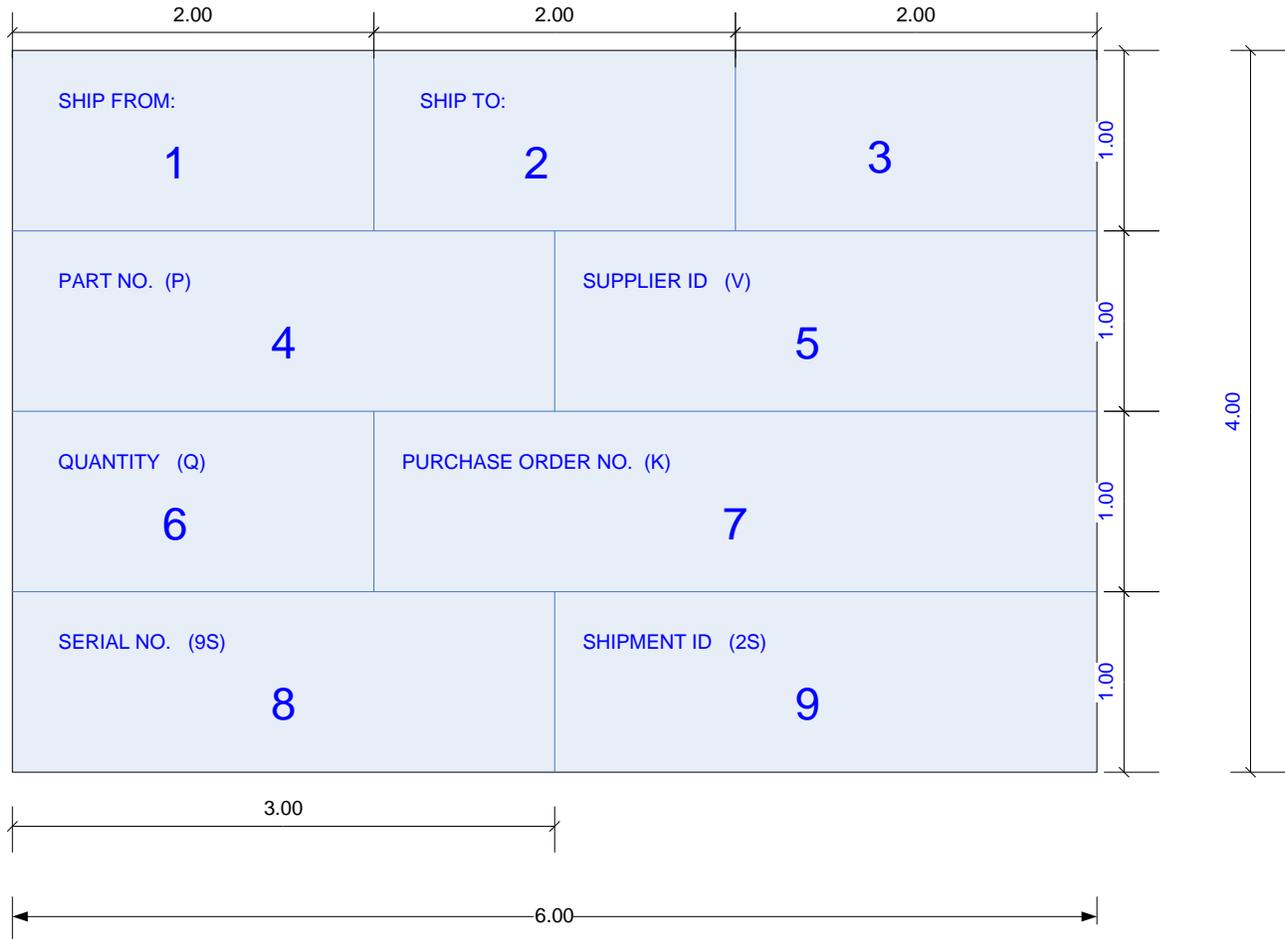
EDI 856 – DTM\*02 with Qualifier 011

# Sample Destination Label

PLANT NAME  <b>RACINE, WI USA</b>	DOCK CODE  <b>CLS9</b>
LOCATION (1L) <b>CL</b>  	
SHIP TO      Location: CL <b>CNH AMERICA LLC C/O OAKLAND LOGISTICS 7100 DURAND AVENUE SUITE 300 STURTEVANT, WI 53177 US</b>	SHIP DATE  <b>2011/03/09</b>

# Master/Mixed Master Label (Size: 4 x 6)

## Master/Mixed Master Label Layout



# Master/Mixed Master Label (Size: 4 x 6)

## Field Descriptions:

### Block1: Ship From

Block Title = SHIP FROM:

Data = Supplier's ship from address

Maximum Length = 5 lines of text (5 LPB = 0.15"= 4mm)

Data Source:

WPS Ship-Point Address

EDI 830 – Supplier N1\*02 with Qualifier SU and N3 and N4

### Block 2: Ship To

Block Title = SHIP TO:

Data = CNH Ship-To address

Maximum Length = 5 lines of text (5 LPB = 0.15"= 4mm)

Data Source:

Delivery Schedules Ship-To Address

EDI 830 – CNH Ship-To, N1\*02 with Qualifier ST and N3 and N4

### Block 3: Label Type

Block Title = Label Identifier

Data = Master or Mixed Master Label

Maximum Length = 2 Lines of text (2 LPB = 0.40" = 11 mm)

Data Source:

Master Load Label: To be used on a single pallet containing one or more boxes of the same part number.

The Master Label **SHOULD** be easily identified with human readable text. The text in this block should read "MASTER LABEL".

Mixed Load Label: To be used on a single pallet containing multiple part numbers. Each Part Number/PO Number combination must have a Mixed Master label. The text in this block should read "MIXED MASTER".

# Master/Mixed Master Label (Size: 4 x 6)

## Field Descriptions:

### Block 4: Part Number

Block Title = PART NO. (P)  
Data = CNH assigned part number  
Symbology = Code 128 (Provide Reference)  
Data Identifier (DI) = P  
Maximum Length = 16: Max Data Chars = 15  
DI Chars = 1

Data Source:  
Delivery Schedules: CNH Part Number (040-016)  
EDI 830 – LIN\*03

### Block 5: Supplier ID

Block Title = SUPPLIER ID (V)  
Data = CNH assigned Supplier ID  
Symbology = Code 128 (Provide Reference)  
Data Identifier (DI) = V  
Maximum Length = 9: Max Data Chars = 8  
DI Chars = 1

Data Source:  
Delivery Schedules: Supplier Code (040-002)  
EDI 830 – Supplier N1\*04 with Qualifier SU

### Block 6: Quantity

Block Title = QUANTITY (Q)  
Data = The amount of parts being shipped.  
Symbology = Code 128 (Provide Reference)  
Data Identifier (DI) = Q  
Maximum Length = 6: Max Data Chars = 5  
DI Chars = 1

Data Source:  
Pre-ASN: Qty for specific Part/PO combination  
EDI 856 – SN1\*02 - This must match what you show as shipped in the 856.

# Master/Mixed Master Label (Size: 4 x 6)

## Field Descriptions:

### Block 7: Purchase Order Number

Block Title = PURCHASE ORDER NO. (K)

Data = CNH purchase order number

Symbology = Code 128 (Provide Reference)

Data Identifier (DI) = K

Maximum Length = 15: Max Data Chars = 14

DI Chars = 1

Data Source:

Delivery Schedules: Purchase Order (040-013 if present or 010-005)

EDI 830 – BFR11 or LIN13

If you are shipping a part number that is associated with multiple P.O. numbers on the same Transport Handling Unit, you need to provide a label for each P.O. Number. You should also treat this as a Mixed Load in your system.

### Block 8: Serial Number

Block Title = SERIAL NO. (9S)

Data = Supplier generated serial number for PALLET/Transport Handling Unit.

Symbology = Code 128 (Provide Reference)

Data Identifier (DI) = 9S

Maximum Length = 11: Max Data Chars = 9 ; DI Chars = 2

Data Source:

CSCN Generated sequential number not to be repeated.

EDI 856 – REF\*LS - The Serial Number SHALL NOT be repeated for a twelve (12) month period.

### Block 9: Shipment ID (SID)

Block Title = SHIPMENT ID (2S)

Data = Shipment ID generated by CNH's 4PL in the Pickup Confirmation

Symbology = Code 128 (Provide Reference)

Data Identifier (DI) = 2S

Maximum Length = 11: Max Data Chars = 9; DI Chars = 2

Data Source:

CNH's 4PL generated load number not to be repeated.

EDI 856 and 810 – The Shipment ID (SID) SHALL NOT be repeated for a twelve (12) month period and must match the BSN\*02 of your 856 and REF\*SI\*02 of your 810 (mandatory).

# Sample Master Label

SHIP FROM TEST SUPPLIER 122 ANY STREET, MILWAUKEE, WI 53433		SHIP TO CNH AMERICA LLC C/O OAKLAND LOGISTICS 7100 DURAND AVENUE STURTEVANT, WI 53177 USA		<h2>MASTER LABEL</h2>	
PART NO. (P) <b>417770A5</b> 			SUPPLIER ID (V) <b>FT725</b> 		
QUANTITY (Q) <b>18</b> 		PURCHASE ORDER # (K) <b>L02414001</b> 			
SERIAL NO. (9S) <b>821</b> 			SHIPMENT ID (2S) <b>8434724</b> 		

# Sample Mixed Master Label

SHIP FROM TEST SUPPLIER 122 ANY STREET, MILWAUKEE, WI 53433		SHIP TO CNH AMERICA LLC C/O OAKLAND LOGISTICS 7100 DURAND AVENUE STURTEVANT, WI 53177 USA		<b>MIXED MASTER</b>	
PART NO. (P) <b>84122739</b> 			SUPPLIER ID (V) <b>FT725</b> 		
QUANTITY (Q) <b>3</b> 		PURCHASE ORDER # (K) <b>L02414001</b> 			
SERIAL NO. (9S) <b>829</b> 			SHIPMENT ID (2S) <b>8434724</b> 		

# Labeling Instructions

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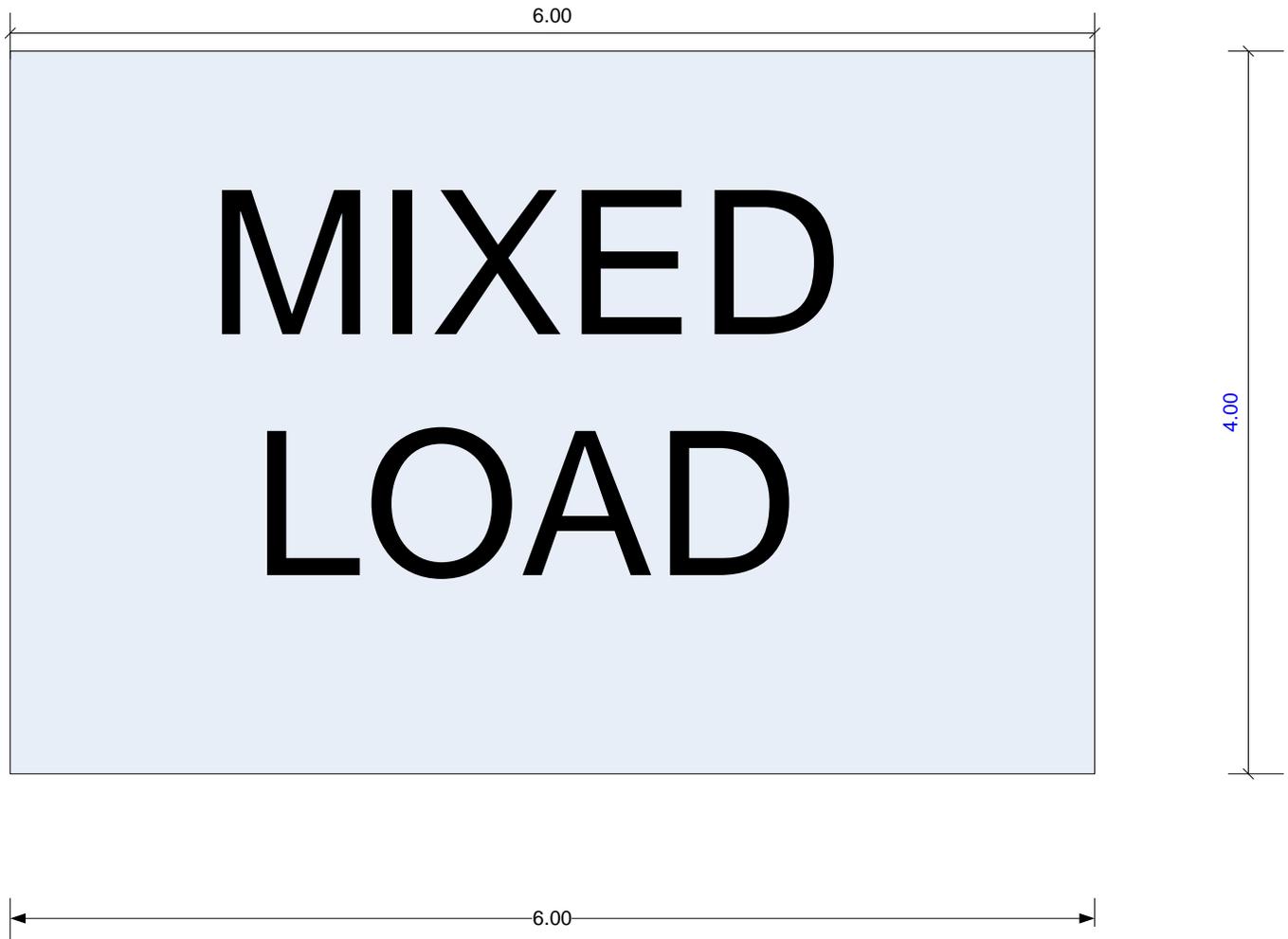
1. Prepare Transport Handling Units, print labels, and print Packing List. The labels and Packing List need to be affixed to the pallet or returnable containers according to the instructions in *Illustrations 1, 2 & 3*).
2. Submit an ASN and Invoice once the product has been shipped. The Shipment ID on the Label, Packing List, ASN, and Invoice **MUST be the same number for CNH to process your payments.**

# Special Instructions for Mixed Load Labels

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Definition: To be used on a single pallet containing multiple part numbers. Each Part Number/PO Number combination must have a Mixed Master label. Also, the pallet must have a mixed load label affixed to the load.

## Mixed Load Label



Label Dimensions: 4" X 6"

Block: Mixed Load

Data = Mixed Load

Maximum Length = 2 lines of text to fill the label

# Sample Mixed Load Label



**MIXED  
LOAD**

# Standard Packing List

A Packing List must be attached to the load that indicates the part numbers shipped and how many containers are associated with each part number with the Shipment ID as a machine readable barcode with a Human Readable Interpretation. (See Ref. 1).

Ref. 1

		 a global communication tool... CNH SUPPLIER COMMUNICATIONS NETWORK		
<small>Verify signatures added to this document</small>				
<b>PACKING LIST</b>				
SHIPMENT ID (2S) <b>8434724</b>				
SHIPMENT ID	SHIP FROM	SHIP TO	DATE SHIPPED	GROSS WEIGHT
8434724	FT725 TEST SUPPLIER 122 ANY STREET, MILWAUKEE, WI 53433	<b>CLS9</b> CNH AMERICA LLC C/O OAKLAND LOGISTICS 7100 DURAND AVENUE, SUITE 300 STURTEVANT, WI 53177 US	MAR 9, 2011	1432.88 LB
CNH PART NUMBER	PO NUMBER	QTY SHIPPED	UOM	
417770A5	L02414001	18	EA	
441554A2	L02414001	18	EA	
445094A5	L02414001	18	EA	
84122739	L02414001	3	EA	
84203780	L02414001	6	EA	
84226324	L02414001	41	EA	
84226325	L02414001	41	EA	

# Bar Code Implementation Checklist

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**IMPORTANT:** Before sending labels to CNH, suppliers should go through their Software Setup and Printer Setup check lists to ensure that bar codes are accurate and in compliance with AIAG standards. (**Refer to AIAG B-10 spec. for more details**).

**Please check that the following elements of each bar code label are compliant:**

**Bar Code Height:** Each machine readable bar code symbol must be 1/2'' (13mm) in height.

**Narrow Element:** Each code 128 data character consists of a 1X, 2X, 3X and 4X width element.

For each code 128 symbol, the average width of the 1X narrow element shall be within the range of 0.013 inch (0.33 mm) to 0.017 inch (0.43 mm). All bar codes on the label must have the same X dimension.

**Quiet Zone:** There must be a minimum of 0.25'' (6.4mm) leading and trailing quiet zone (blank space) for optimum scanning.

**Data Identifiers:** Each Bar Code field requires a leading data identifier. For example, the data identifier for Part Number is "P". This data identifier must be bar code scannable as well as human readable.

**Decodability:** The pattern of the bar code needs to be recognizable (thin lines versus thick lines).

**Modulation:** The black lines and white spaces should be equal in size; i.e., the thin black lines should be the same width as the thin white spaces. The same applies to the thick black lines and the thick white spaces.

**Average Bar Error:** Compare each thin line to all other thin lines and each thick line to all other thick lines. All thin lines need to match each other; all thick lines need to match each other.

**Global Thresh:** The edge of the black lines should be crisp and should not smear into the white space.

**Printer Label Stock:** The recommended dimensions for CNH bar code labels are a height of 4'' (102mm) and a width of 6.0'' (152 mm). If you use Thermal Direct print technology, then you must use infrared scannable stock.

# Label Certification

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Please scan one of your production-ready labels on your label printer, and e-mail it to [ww.edi@cnh.com](mailto:ww.edi@cnh.com)

We will validate your label sample to ensure it complies with CNH's label specification.

Also, please provide the name, e-mail address, and phone number of your contact person so that we may provide feedback on your label sample, and advise when you can begin using the labels on your shipments.

# Label Placement on Transport Handling Unit

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## **Pallet Box – Identical Parts on a Returnable Pallet Box**

Identical Master Labels and Destination Labels shall be located on two adjacent sides. The Packing List should be placed in an envelope and attached to the pallet.

*Illustration 1: 1 Pallet with 150 pieces of one part number.*



**Cartons on Pallet – Identical Parts on Standard Pallet in Corrugated or Expendable Cartons**

Identical Master Labels and Destination Labels shall be located on two adjacent sides. The Packing List should be placed in an envelope and attached to the pallet.

*Illustration 2: 1 Pallet with 24 boxes of one part number.*

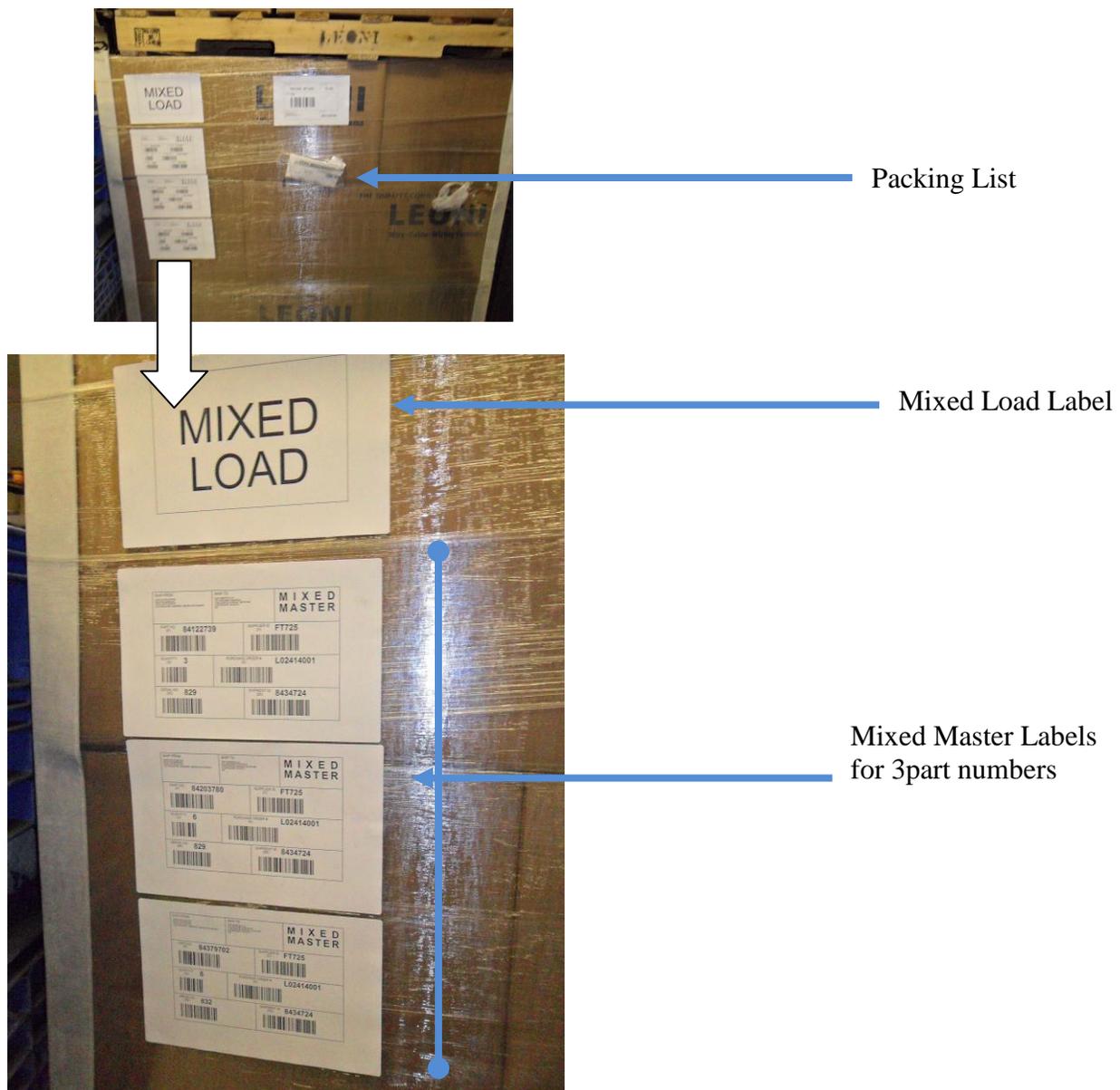


### Mixed Pallets or Boxes

All pallets or skids that have non-identical containers of parts require a Mixed Master Label located on two adjacent sides. Each Part Number/Purchase Order Number combination must have a Mixed Master Label.

The pallet or box should also be clearly identified with a Mixed Load Label. Packing List should be placed in an envelope and attached to the pallet. Each pallet or box should be identified with a Destination Label located on 2 adjacent sides.

*Illustration 3: 1 Pallet with 3 different parts.*



## Additional Resources for Transportation Labels

1. Primer on Label Printers: [http://en.wikipedia.org/wiki/Label\\_printer](http://en.wikipedia.org/wiki/Label_printer)
2. [Avery Label AVE 5126](#): Avery® White Shipping Labels for Laser Printers 5126, 5-1/2" x 8-1/2", Box of 200
3. [Staples](#): Avery® 5126 White Laser Internet Shipping Labels with TrueBlock™, 5-1/2" x 8-1/2", 200/Box
4. Zebra Printers and accessories: [Miles Data Technologies](#), Phone: +1 (262) 522-6700
5. [Zebra S4M](#) - Label printer - B/W - direct thermal - Roll (4.5 in) - 203 dpi - up to 359.1 inch/min - capacity: 1 rolls - Parallel, Serial, USB
6. AIAG B-10 - Trading Partner Labels Implementation Guidelines (<Http://www.aiag.org>)