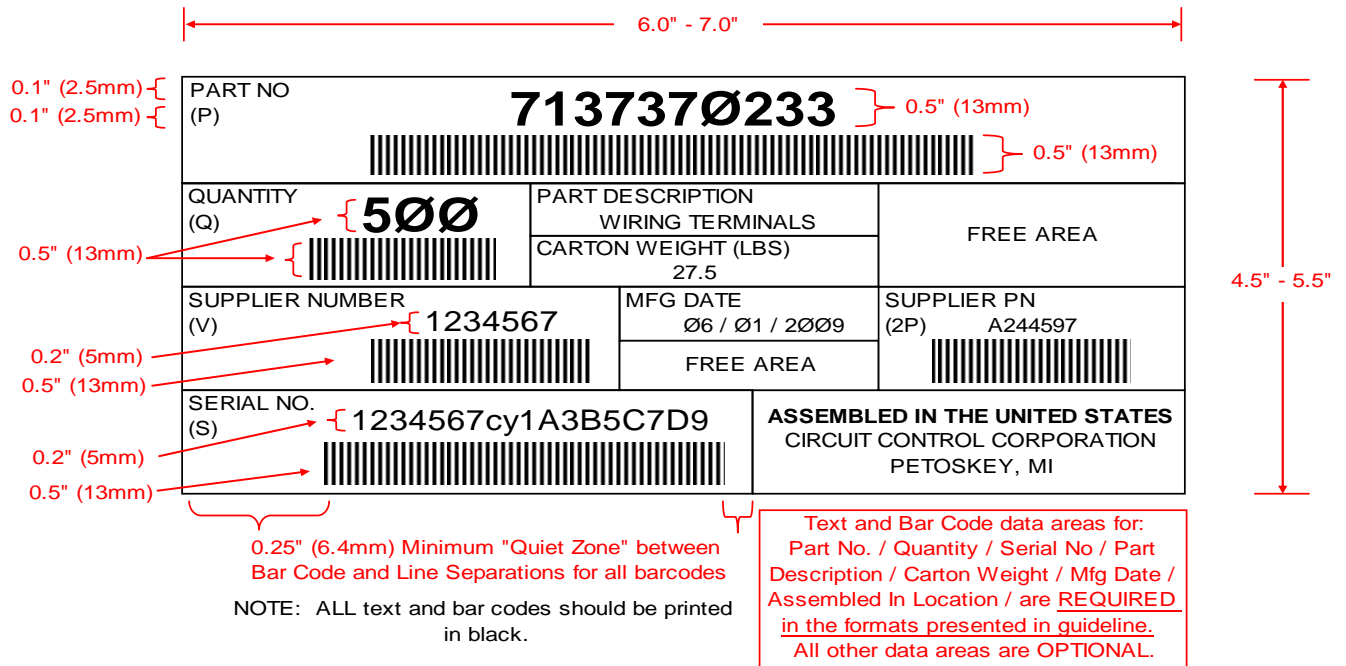
 <b>YAZAKI OPE-IPE GUIDELINES</b>	Rev	3.4
	WI No.: YAOM-PE-S12-014W	
<b>Component Supplier Handling Unit Bar Code Label Guideline</b>	Doc.	YAOM-PE-S12-014W
	Date	6/3/09

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### 1.0 Purpose

- Yazaki North America, Inc. (YNA) is implementing a new material handling system based on SAP warehouse management system (WMS) in all its locations and warehouses receiving components and raw materials. In support of this initiative, all component and raw material suppliers that supply to YNA or any of its affiliate locations shall now be required to provide bar code labels on each container or handling unit of product shipped to YNA. This document outlines the specific requirements that shall be adhered to by the component supplier.




### 2.0 Bar Code Symbology

- The bar code labels shall follow the bar code standard set by AIAG Shipping/ Parts Identification label guideline B-3.

#### 2.1 Code Configuration

- The four symbols (\$, /, +, %) of the Code 39 Symbology shall not be used on the bar code label.

 <b>YAZAKI OPE-IPE GUIDELINES</b>	Rev	3.4
<b>WI No.: YAOM-PE-S12-014W</b>	Doc.	YAOM-PE-S12-014W
<b>Component Supplier Handling Unit Bar Code Label Guideline</b>	Date	6/3/09

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## 2.2 Code Density and Dimension

- All Bar Code heights shall be 0.5 inch (13mm). For each bar code symbol, the average width of the narrow elements shall be within the range of 0.013 to 0.017 inch (0.33-0.43mm). The ratio of the average width of the wide elements of the average width of the narrow elements shall be 3:1, with an allowable range of 2.8:1 to 3.2:1. The leading and trailing edge "quiet zone" should be at least 0.25 inch (6.4mm). Inter-character gap width should be the same as the width of the average narrow elements, plus or minus the element width tolerance.

## 2.3 Reflectivity and Contrast

- Reflectivity and contrast shall be measured at B900 nanometers. Symbol shall comply with all optical specifications of AIAG B-1.
- Resolution (minimum width) of bar code lines must be at least 10 mils (0.010").


## 3.0 Data Areas and Titles

Data areas should be separated by thin horizontal lines and should contain their respective titles in the upper left hand corner. Preferably, thin vertical lines should be used to separate all data areas.

- Titles should be printed in 0.1 inch (2.5mm) high letters.
- Human readable information is recommended to show any zeroes (Ø) with a slash mark (/) through the zero to differentiate from alphabetical letter O's.
- ALL text, bar codes, and data area lines shall be printed in black.

## 3.1 Data Identifiers

- Data identifiers shall be used as defined in the current ANSI FACT-1 Data Identifier Directory Standard. A data identifier immediately follows the start character of the bar code symbol and is used to identify the information to follow. More discussed below.

 <b>YAZAKI OPE-IPE GUIDELINES</b>	Rev	3.4
<b>WI No.: YAOM-PE-S12-014W</b>	Doc.	YAOM-PE-S12-014W
<b>Component Supplier Handling Unit Bar Code Label Guideline</b>	Date	6/3/09

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### 3.2 Part Number Area (P) - (Required: bar code and human readable format)


- Human readable part number characters shall be bold and a minimum of 0.5 inch (13mm) high.
- The bar code symbol shall be directly below the human readable characters, and shall be a minimum of 0.5 inch (13mm) high and shall contain the data identifier (P) in the actual scan.
- **Dashes and spaces should NOT be included in the bar coded form of the part number or in the human readable for of the part number.**
- The actual Part Number printed in human readable format and bar coded format shall be the YNA part number as it appears in the release.

### 3.3 Quantity Area (Q) - (Required: bar code and human readable format)

- Human readable quantity characters shall be bold and a minimum of 0.5 inch (13mm) high.
- The bar code symbol for the quantity shall be directly below the human readable characters, and shall be a 0.5 inch (13mm) high and shall contain the data identifier (Q) in the actual scan.
- Quantity shall be the total number of pieces contained in one Handling Unit.

### 3.4 Supplier Number Area (V) - (Optional: bar code and human readable format)


- Human readable supplier number characters shall be a minimum of 0.2 inch (5mm) high.
- The bar code symbol for the supplier number shall be directly below the human readable characters, and shall be a 0.5 inch (13mm) high and shall contain the data identifier (V) in the actual scan.
- The Supplier Number shall be the 7 digit SAP Supplier Account Number assigned to the Component Supplier. It is the supplier's discretion whether or not they wish to fill in the Supplier Number Data Area.

 <b>YAZAKI OPE-IPE GUIDELINES</b>	Rev	3.4
<b>WI No.: YAOM-PE-S12-014W</b>	Doc.	YAOM-PE-S12-014W
<b>Component Supplier Handling Unit Bar Code Label Guideline</b>	Date	6/3/09

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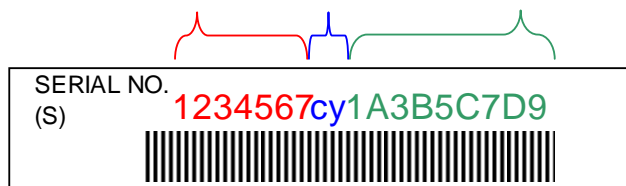
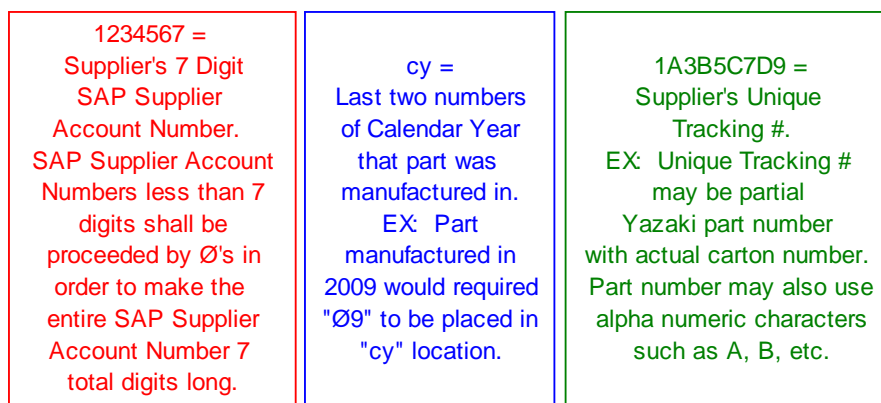
### 3.5 Serial Number Area (S) - ([Required: bar code and human readable format](#))

- The human readable serial number characters shall be a minimum of 0.2 inch (5mm) high.
- The bar code symbol for the serial number shall be directly below the human readable characters, shall be a minimum of 0.5 inch (13mm) high, and shall contain the data identifier (S) in the actual scan.
- A unique 16 to 18 digit numeric or alpha-numeric serial number will be generated and tracked by the component supplier for each handling unit of product shipped to Yazaki. A serial number may not be repeated within a 12-month period.
- All component suppliers are responsible for generating serial numbers that are unique across all of their part numbers.
- Each component supplier's specific (up to 7 digit) numeric SAP Supplier Account Number shall be the prefix/beginning of every serial number. SAP Supplier Account Numbers will be communicated through YNA core purchasing group to all vendors. This 7 digit numeric SAP Supplier Account Number must be specified in the first 7 positions of **every** serial number for every part number & handling unit label.
- SAP Supplier Account Numbers that are less than 7 digits shall be preceded by one or multiple zeroes (Ø's) as necessary to complete the first 7 spaces of the overall Serial Number. Examples for 1 digit, 4 digit, and 7 digit Serial Number Prefixes:
  - 1 is SAP Supplier Account Number - Serial Number always starts as ØØØØØØ1
  - 1234 is SAP Supplier Account Number - Serial Number always starts as ØØØ1234
  - 1234567 is SAP Supplier Account Number - Serial Number always starts as 1234567 without any zeroes preceding the SAP Supplier Account Number.
- The next two digits, as designated by the "cy" in the bar code example, shall be the last two digits of the calendar year that the part is manufactured in. Therefore, if the part is manufactured in 2009 calendar year, the digits "Ø9" shall be the next two digits following the 7 digit SAP Supplier Account Number.


 <b>YAZAKI OPE-IPE GUIDELINES</b>	Rev	3.4
<b>WI No.: YAOM-PE-S12-014W</b>	Doc.	YAOM-PE-S12-014W
<b>Component Supplier Handling Unit Bar Code Label Guideline</b>	Date	6/3/09

This document is "uncontrolled" if printed on paper, unless it is otherwise clearly identified as "controlled". Prior to use of an uncontrolled print-out, the QMS on-line documentation system must be referenced to ensure that the most current revision is utilized.

- The remaining 7-9 digits of the serial number shall be generated by the component supplier. These 7-9 digits may be alpha-numeric as shown in the diagram below. Using the carton number itself is recommended, but not required. If the carton number is selected to be used, and is for example: carton # 143, the remaining portion of the unique serial number should be ØØØØ143, ØØØØØ143, or ØØØØØØ143, or may use any combination of the carton number plus alpha numeric characters.
- The diagram below explains details for the Serial No. area:




- Each Component Supplier will be responsible for tracking the Serial Numbers they generate for each carton shipped to YNA. Any communications to YNA about particular cartons/containers (e.g., for rework or quality issues) must include the serial number that appears on the bar code label. It is essential that the carton serial numbers are supplied in these communications in order for Yazaki to be able to respond in an appropriate and timely manner.
- Following this process will ensure that the wide range of carton serial numbers sent to YNA by each component supplier can not be duplicated by the supplier itself or another component supplier.

 <b>YAZAKI OPE-IPE GUIDELINES</b>	Rev	3.4
WI No.: YAOM-PE-S12-014W	Doc.	YAOM-PE-S12-014W
<b>Component Supplier Handling Unit Bar Code Label Guideline</b>	Date	6/3/09

This document is "uncontrolled" if printed on paper, unless it is otherwise clearly identified as "controlled". Prior to use of an uncontrolled print-out, the QMS on-line documentation system must be referenced to ensure that the most current revision is utilized.

- Each component supplier is responsible for generating serial numbers that are unique across all of their part numbers and handling units.
  - A specific serial number should not be duplicated for the time period of one year.
- 3.6 Part Description - ([Required: human readable format](#))
- Titles should be printed in 0.1 inch (2.5mm) high letters.
  - Description should be printed in 0.1 inch (2.5mm) high letters.
  - Part Description may be full descriptive wording or abbreviation.
- 3.7 Carton Weight - ([Required: human readable format](#))
- Titles should be printed in 0.1 inch (2.5mm) high letters.
  - Weight should be printed in 0.1 inch (2.5mm) high numbers to 0.1 Lbs. accuracy.
  - Shall be shown in the unit of Lbs. to 0.1 accuracy, and is the total weight (carton plus product and any internal packaging dunnage such as cells, dividers, bags, etc.)
- 3.8 MFG Date - ([Required: human readable format](#))
- Titles should be printed in 0.1 inch (2.5mm) high letters.
  - Date should be printed in 0.1 inch (2.5mm) high numbers.
  - Shall be shown in mm/dd/yyyy format.
- 3.9 Free Area - (Optional)
- This area may be used by the component supplier for any data they would like.
  - Title should be printed in 0.1 inch (2.5mm) high letters.
  - Data should be printed in 0.1 inch (2.5mm) high letters or numbers.

 <b>YAZAKI OPE-IPE GUIDELINES</b>	Rev	3.4
WI No.: YAOM-PE-S12-014W	Doc.	YAOM-PE-S12-014W
<b>Component Supplier Handling Unit Bar Code Label Guideline</b>	Date	6/3/09


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3.10 Supplier PN (2P) - (Optional, but if used, bar code and human readable format is preferred)

- The Supplier PN (2P) Area shall contain the component supplier's part number and is for the component supplier's purposes. Bar coding this area is optional for the component supplier.
- Titles should be printed in 0.1 inch (2.5mm) high letters.
- Supplier PN should be printed in 0.2 inch (5.0mm) high numbers.
- Bar code (if used) should be printed to 0.5 inch (16mm) tall.
- The bar code symbol shall be directly below the human readable characters, and shall be a minimum of 0.5 inch (13mm) high and shall contain the data identifier (2P) in the actual scan if this area is to be scanned. This ensures incorrect scans will not occur at Yazaki locations between the Yazaki Part Number (P) and the Supplier Part Number (2P).

3.11 Assembled In / Country of Origin & Component Supplier Name (Required)

- The "Assembled In" or "Country of Origin" location shall be printed at the top of this area.
- The name of the Component Supplier shall be printed following the "Assembled In/Country of Origin" location.
- There is no required font size or style but the printing must be large enough to be human readable.

 <b>YAZAKI OPE-IPE GUIDELINES</b>	Rev	3.4
	<b>WI No.: YAOM-PE-S12-014W</b>	
<b>Component Supplier Handling Unit Bar Code Label Guideline</b>	Doc.	YAOM-PE-S12-014W
	Date	6/3/09


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**4.0 Addendum A - Additional Requirements for Ship To Location & Revision Level**

- Yazaki has added the additional requirements to the label:
  - “Ship To” location (Destination Plant)
  - “Revision Level” of the part (if applicable)
- The “Ship To” location and “Revision Level” may be printed in the “Free Areas” on the label. The “Revision Level” may also be printed as shown in Example A in the following example.
- The “Ship To” location should be printed in human readable format, and is based off of the coded location chart below.

<i>Plant / Ship To Location</i>	<i>Text to be printed on Label in "Ship To" Data Area</i>	<i>Plant / Ship To Location</i>	<i>Text to be printed on Label in "Ship To" Data Area</i>
Yazaki North America - Canton 6250 Haggerty Rd Canton, MI 48187	YNA Canton 6250	BAPSA Chihuahua Chihuahua, Chihuahua Mexico	BAPCHI
COMBUE 18 Leigh Fisher El Paso, TX 79906	COMBUE	YARMEX - PEDSA 1 Juarez, Chihuahua Mexico	PEDSA1
BAPSA Buenaventura Buenaventura, Chihuahua Mexico	BAPSA-B	YARMEX - PEDSA 2 Juarez, Chihuahua Mexico	PEDSA2
BAPSA Ignacio Zaragoza Ignacio Zaragoza Mexico	BAPSA-I	YARMEX - Commercial Vehicle Group Juarez, Chihuahua Mexico	CVG
BAPSA Flores Magon Flores Magon, Chihuahua Mexico	BAPSA-F	YARMEX - ACOSA Plant 1 Obregon, Sonora Mexico	ACOSA1
BAPSA Gomez Farias Gomez Farias, Chihuahua Mexico	BAPSA-G	YARMEX - ACOSA Plant 2 Obregon, Sonora Mexico	ACOSA2
BAPSA Madera Madera, Chihuahua Mexico	BAPS-MD	YARMEX - SECOSA Navojoa, Sonora Mexico	SECOSA
BAPSA Matachic Matachic, Chihuahua Mexico	BAPS-MT	YARMEX - MACSA Colima, Colima Mexico	MACSA

**CHART CONTINUED ON NEXT PAGE**

 <b>YAZAKI OPE-IPE GUIDELINES</b> <b>WI No.: YAOM-PE-S12-014W</b>	Rev	3.4
	Doc.	YAOM-PE-S12-014W
	<b>Component Supplier Handling Unit Bar Code Label Guideline</b>	
	Date	6/3/09

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<i>Plant / Ship To Location</i>	<i>Text to be printed on Label in "Ship To" Data Area</i>	<i>Plant / Ship To Location</i>	<i>Text to be printed on Label in "Ship To" Data Area</i>
AAMSA Ascension Ascension, Chihuahua Mexico	ASCN	Arnecom Component Distribution Saltillo, Nuevo Leon Mexico	ARN-DC
AAMSA Nuevo Casas Grandes Plant 1 Nuevo Casas Grandes, Chihuahua Mexico	AMSNCG1	Arnecom Cables Monterrey, Nuevo Leon Mexico	ARN-CAB
AAMSA Nuevo Casas Grandes Plant 2 Nuevo Casas Grandes, Chihuahua Mexico	AMSNCG2	Arnecom Monterrey Monterrey, Nuevo Leon Mexico	ARN-MO
AAMSA Galeana Galeana, Chihuahua Mexico	AMSGAL	Arnecom Cuatrocieneegas Cuatrocieneegas, Coahuila Mexico	ARN-CC
AAMSA Constitucion Constitucion, Chihuahua Mexico	AMSCON	Arnecom Dr. Arroyo Dr. Arroyo, Nuevo Leon Mexico	ARN-DA
AAMSA Benito Juarez Benito Juarez, Chihuahua Mexico	AMSBJZ	Arnecom Moctezuma Moctezuma, San Luis Potosi Mexico	ARN-MZ
AAMSA Juarez Plant 1 Juarez, Chihuahua Mexico	AMSJ1	Arnecom Concepcion Concepcion del Oro, Zacatecas Mexico	ARN-CO
AAMSA Juarez Plant 2 Juarez, Chihuahua Mexico	AMSJ2	Arnecom Valles cd. Valles, San Luis Potosi Mexico	ARN-VL
AAMSA Durango Durango, Durango Mexico	AMSD	Arnecom Charcas Charcas, San Luis Potosi Mexico	ARN-CH
AAMSA Nuevo Ideal Nuevo Ideal, Durango Mexico	AMSN	Arnecom Venado Venado, San Luis Potosi Mexico	ARN-V
AAMSA El Salto El Salto, Durango Mexico	AMSE	Arnecom Tuxtla Gutierrez Plant 3 Tuxtla Gutierrez, Chiapas Mexico	ARN-TX3
AAMSA Canatlan Canatlan, Durango Mexico	AMSCN	Arnecom Tuxtla Villa Flores Villa Flores, Chiapas Mexico	ARN-VF
Arnecom Tuxtla Gutierrez Plant 1 Tuxtla Gutierrez, Chiapas Mexico	ARN-TX1	ARCIN Monterrey, Nuevo Leon Mexico	ARCIN
Arnecom Tuxtla Ocozocuautila Tuxtla Ocozocuautila, Chiapas Mexico	ARN-O	Arnecom El Sal - Santa Ana Santa Ana El Salvador	ARN-SA
Arnecom Tapachula Tapachula, Chiapas Mexico	ARN-TP	Arnecom Nic - Leon Plant 2 Leon, Leon Nicaragua	ARN-NL2
Arnecom Nic - Leon Plant 1 Leon, Leon Nicaragua	ARN-NL1	Arnecom Nic - Plant 4 Nicaragua	ARN-N4
Arnecom Nic - El Viejo Plant 3 El Viejo, Chinandega Nicaragua	ARN-EV	Auto Conectores de Chihuahua Plant 2 Chihuahua, Chihuahua Mexico	ACC2
Arnecom Nic - Cables Leon, Leon Nicaragua	ARN-NCB	Tecnologia Autoelectronico de Durango Durango, Durango Mexico	TAD
Auto Conectores de Chihuahua Plant 1 Chihuahua, Chihuahua Mexico	ACC1		

<h1 style="margin: 0;">YAZAKI OPE-IPE GUIDELINES</h1>	Rev	3.4
	Doc.	YAOM-PE-S12-014W
<h2 style="margin: 0;">Component Supplier Handling Unit Bar Code Label Guideline</h2>	Date	6/3/09

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- The part number’s “Revision Level” (if applicable) should be printed in human readable format (not bar coded), and may be printed in its own data area to the far right of the actual part number print in the Part Number field (as shown in example A below). The Revision Level shall not be included (not scanned) in the bar code for the Part Number. It may also be printed as shown in any of the “Free Area” data areas along with the “Ship To” location as shown in examples B, C & D.
- If there is no Revision Level to the part number, it is not necessary to create or display a Revision Level data area on the label
- The following are examples of acceptable labels which have the “Ship To” location and “Revision Level (REV LVL)” added (yellow shaded cells for example purposes only):

Example A

PART NO (P)		<b>7137370233</b>		REV LVL	A
QUANTITY (Q)		PART DESCRIPTION		SHIP TO: PEDSA 1	
<b>500</b>		WIRING TERMINALS			
SUPPLIER NUMBER (V)		MFG DATE		FREE AREA	
1234567		06 / 01 / 2009			
SERIAL NO. (S)		SUPPLIER PN (2P)		ASSEMBLED IN THE UNITED STATES CIRCUIT CONTROL CORPORATION PETOSKEY, MI	
1234567cy1A3B5C7D9		A679499			

Example B


PART NO (P)		<b>7137370233</b>		REV LVL: A	
QUANTITY (Q)		PART DESCRIPTION		REV LVL: A	
<b>500</b>		WIRING TERMINALS			
SUPPLIER NUMBER (V)		MFG DATE		SHIP TO: PEDSA 1	
259212		06 / 01 / 2009			
SERIAL NO. (S)		SUPPLIER PN (2P)		ASSEMBLED IN THE UNITED STATES CIRCUIT CONTROL CORPORATION PETOSKEY, MI	
1234567cy1A3B5C7D9		A679499			

Example C

PART NO (P)		<b>7137370233</b>		REV LVL: A	
QUANTITY (Q)		PART DESCRIPTION		SHIP TO: PEDSA 1	
<b>500</b>		WIRING TERMINALS			
SUPPLIER NUMBER (V)		MFG DATE		FREE AREA	
259212		06 / 01 / 2009			
SERIAL NO. (S)		SUPPLIER PN (2P)		ASSEMBLED IN THE UNITED STATES CIRCUIT CONTROL CORPORATION PETOSKEY, MI	
1234567cy1A3B5C7D9		A679499			

Example D

PART NO (P)		<b>7137370233</b>		FREE AREA	
QUANTITY (Q)		PART DESCRIPTION		FREE AREA	
<b>500</b>		WIRING TERMINALS			
SUPPLIER NUMBER (V)		MFG DATE		REV LVL: A SHIP TO: PEDSA 1	
259212		06 / 01 / 2009			
SERIAL NO. (S)		SUPPLIER PN (2P)		ASSEMBLED IN THE UNITED STATES CIRCUIT CONTROL CORPORATION PETOSKEY, MI	
1234567cy1A3B5C7D9		A679499			

 <b>YAZAKI OPE-IPE GUIDELINES</b>	Rev	3.4
<b>WI No.: YAOM-PE-S12-014W</b>	Doc.	YAOM-PE-S12-014W
<b>Component Supplier Handling Unit Bar Code Label Guideline</b>	Date	6/3/09

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## 5.0 Implementation Timing

Project Task	Date
1. YNA Notifies Direct Component Suppliers of Requirements	December 15 <sup>th</sup> , 2008
2. Supplier submits example of label to YNA, to be mailed to: Attn: <b>Steve Giebelhaus</b> Yazaki North America, Inc. Attn: Steve Giebelhaus 6700 Haggerty Rd. Canton, MI 48187	January 30 <sup>th</sup> , 2009
<b>NOTE:</b> In the absence of SAP supplier account number, the label sample can include any "dummy" 7-digit random number. Official number will be assigned and informed during March 2009 time frame, once vendor master data is loaded and system generates supplier account numbers.	
3. YNA Approval Sample Label	February 27 <sup>th</sup> , 2009
4. YNA Notifies Component Supplier of new SAP Supplier Account Number	March 9 <sup>th</sup> , 2009
5. Supplier begins shipping with bar code label using official SAP supplier account number	March 20 <sup>th</sup> , 2009


## 6.0 Contact Information

For any questions or comments regarding this specification, please contact  
Steve Giebelhaus at [steve.giebelhaus@us.yazaki.com](mailto:steve.giebelhaus@us.yazaki.com)  
Derek Andre at [derek.andre@us.yazaki.com](mailto:derek.andre@us.yazaki.com)  
Cesar Quihui at [cesar.quihui@us.yazaki.com](mailto:cesar.quihui@us.yazaki.com)

## 7.0 Approvals

Author	Date
Steve Giebelhaus	10/7/08

Management Approval:	Date
J. Endo	10/8/08

 <b>YAZAKI OPE-IPE GUIDELINES</b>	Rev	3.4
<b>WI No.: YAOM-PE-S12-014W</b>	Doc.	YAOM-PE-S12-014W
<b>Component Supplier Handling Unit Bar Code Label Guideline</b>	Date	6/3/09

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## 8.0 Document History

REV Level	Description of Change(s):	Author(s):	Date:
1.0	Initial Release	Giebelhaus	11/16/07
2.0	Addendum "A" added	Giebelhaus	4/8/08
3.0	Changed from JDE to SAP Supplier Account # (Nozomi)	Giebelhaus	10/7/08
3.1	Changed Supplier Part Number data identifier from P2 to 2P	Giebelhaus	5/4/09
3.2	Revised Serial Number to add alpha numeric characters. Corrected verbiage for 1.0 & 3.11.	Giebelhaus	5/6/09
3.3	Removed Hyphens from PN area. Carton # not required. Part Description is now required.	Giebelhaus	6/1/09
3.4	Changed "optional" to "mandatory" for some data fields.	Giebelhaus	6/5/09