



North American Labeling Requirements

TRW Automotive
Livonia, MI

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1. Introduction

The information described in this document contains specifications for bar code labels used on material to be received at TRW facilities from suppliers and inter-company sources. This document was developed in conjunction with, and is an extraction of the following standards, developed by the Automotive Industry Action Group (AIAG) and the American National Standards Institute (ANSI).

Applicable Specifications:

Shipping/Parts Identification Label Standard, AIAG B-3 Version 3.00 Released 7/93

Trading Partner Labels, AIAG B-10 Version 2.00 Released 2/00

Parts Identification and Tracking Standard, AIAG B-4 Version 2.00 Released 2/98

Data Application Identifier Standard ANSI MH10.8.2

Bar Code Print Guideline ANSI X3.182

For further information and publications on AIAG standards contact: Automotive Industry Action Group, 26200 Lahser Road, Suite 200, Southfield, Michigan 48034, Phone (248) 358-3570.

2. Purpose

This labeling specification provides guidelines for the printing and placement of Shipping/Parts Identification Labels. These labels are designed to improve TRW Automotive and trading partner productivity by allowing effective and efficient capture of data for production counts, warehouse input/output, cycle counting, shipper generation, forwarding, freight transfer control, receiving, Electronic Data Interchange (EDI) with Advance Shipment Notice (ASN) and other inventory controls. Adherence to these specifications for labels will reduce labor costs, improve data accuracy, and increase overall systems value.

The TRW Automotive buyer **SHALL** be responsible to notify and enforce these requirements on the suppliers. Deviations from this standard may be used subject to approval by the Materials Manager at the receiving facility **AND** the TRW Automotive buyer. Deviations must be formally submitted to the TRW buyer or receiving facility Materials Manager and approved in writing.

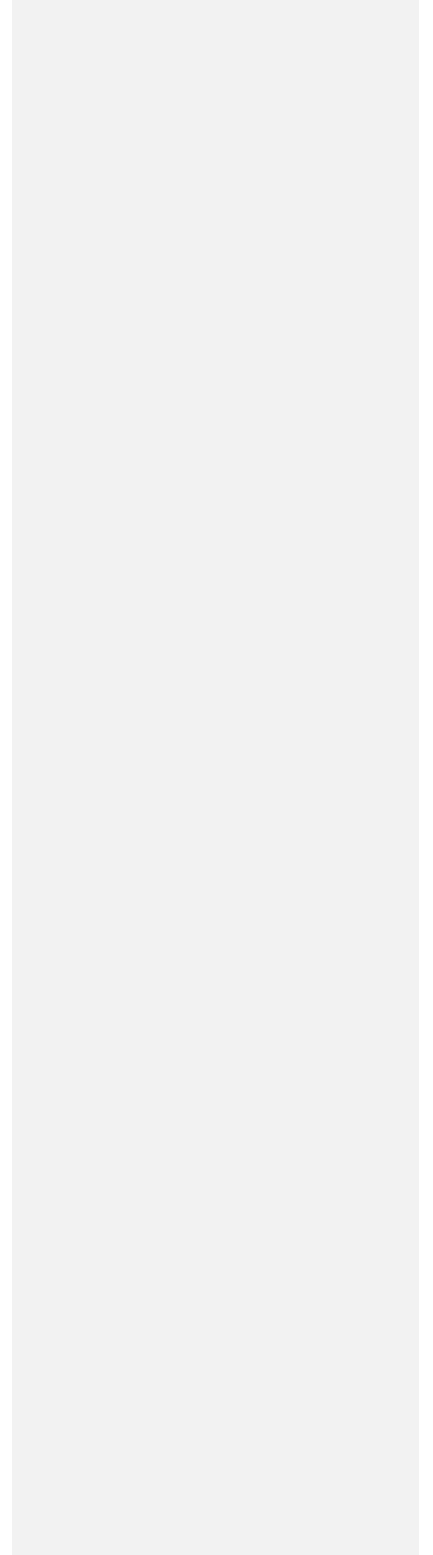
This labeling specification applies to all products being shipped to **ANY** TRW Automotive location in North America, regardless of the suppliers location. Failure to comply with any of these requirements could result in the lowering of the Supplier Quality Rating and/or generate charge backs to supplier for additional handling fees that result from non-conformance to this specification.

All parts shipped after August 1, 2003 must be shipped in accordance with this standard.

Any questions or concerns regarding this specification should be directed to your TRW purchasing representative.

In this document the word **SHALL** indicates a requirement and the word **SHOULD** indicates a recommendation.

| 3.



TYPES OF LABELS AND REQUIRED DATA FIELDS

3.1 Label Types

Four types of labels are defined and required by TRW Automotive, depending on how material is packaged for shipment as described below. (*Exhibits are for reference only, the Supplier **SHOULD** utilize these formats. Actual labels may be different depending up printing capability of the Supplier and Data being supplied.*)

3.2 Single Pack Carton Label (Ref Exhibit A)

SHALL be used to identify a single pack or carton containing the same part number. It is the most commonly used shipping/parts identification label.

3.3 Master Load Pallet Label (Ref Exhibit B)

SHALL be used for containers, pallets, skids, etc., holding more than one single pack of the same part number. The Master Label is used to summarize the total contents of a single load or palletized shipping unit.

3.4 Mixed Load Pallet Label (Ref Exhibit C)

SHALL be used for containers, pallets, skids, etc., holding more than one single pack of different part numbers.

~~3.5~~

~~3.63.5~~ Internal Container Label (Subpack Label) (Ref Exhibit E)

SHALL be used for internal containers when multiple containers or subpacks of the same part number are shipped inside a single pack carton container. This label is used in addition to labels for single or multiple containers.

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~~3.73.6~~ Label application and usage table

The following table (*Figure 1*) will help you determine which type(s) of label(s) to use depending upon how the material is packaged and shipped.

Figure 1 - Label Application and Usage

Packaging Method	Single pack carton Label	Master Load pallet Label	Mixed Load pallet Label	Internal Container Label
Single Container Same Part Number	X	X		
Single Container, Multiple Lot / PO	X	X (For each LOT or PO)		
Multiple Containers same Part Number /single pallet.	X	X		
Multiple Containers different Part Number /single pallet	X	X (For Each Part Number)	X	
Internal pack (sub-pack)	X			X

~~3.8~~

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3.93.7 Bar Code Label Required Data Fields

Depending upon the bar code label type required the following table (*Figure 2*) defines the minimum required Bar Code and Human readable data fields for each label application.

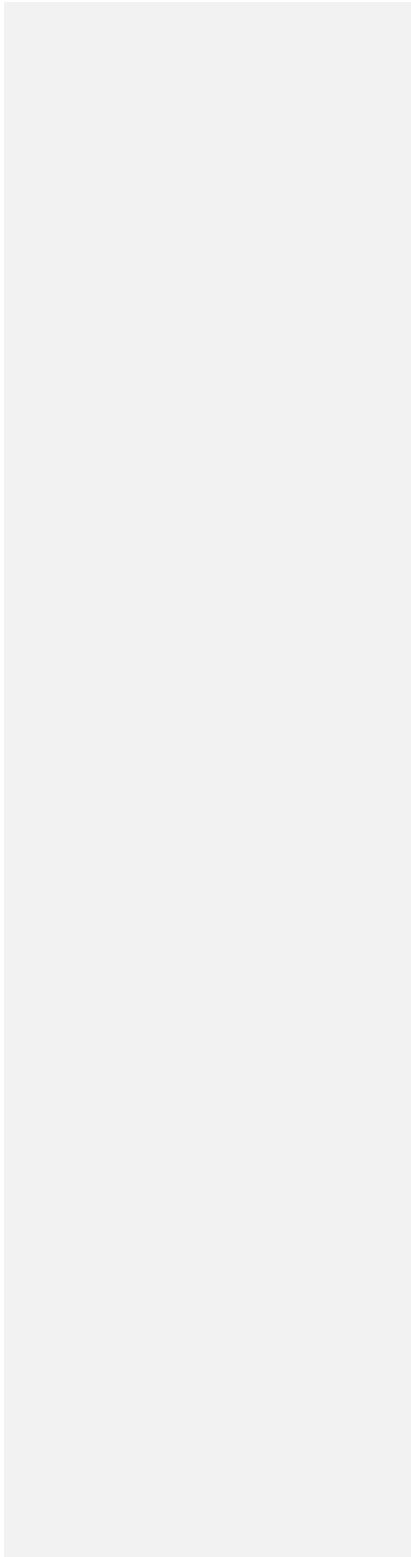


Figure 2 -Description of Data Elements

Description of each Data Element format and the Parts Identification Label in which it is used		Bar Code Symbol	Human Readable Bar code interpretation	Data Identifier (DI)	Data files and data Identifier (DI) text only	Human Readable text	Maximum data length Excluding Data Identifier	Single Pack Carton Label	Master Load Pallet Label	Mixed Load Pallet Label	Internal Container Label (subpack)	Packing Slip /Delivery Note	
Data Field	Description	Data Element Format						Data Field Label Usage Application					
TRW Part Number	Part Number as assigned on the TRW Purchase Order	X	X	P	X		18	X	X		X		
Quantity	Total Quantity of the same Part Number within the same container or master carton	X	X	Q	X		5	X	X		X		
Supplier Number	The Supplier code as assigned to you by TRW	X	X	V	X		7	X	X				
Serial Number - Single Pack	Unique container serial number assigned by the Supplier for a single container or pack of the same part number	X	X	S	X		10	X					
Serial Number - Master Pack	Unique pallet or master container serial number assigned by the supplier for more than one single container of different part numbers	X	X	4S	X		10		X				
Supplier Lot Number	Supplier manufacturing lot code assigned by the supplier for a container or containers	X	X	1T	X		10	X	X		X		
TRW Purchase Order Number	Purchase Order number as assigned by TRW for a given part number(s)	X	X	K	X		10	X	X				
Revision Level	Alpha Character representing the Eng. Revision level corresponding to the material within a single container	X	X	2P	X		3	X	X				
Packing Slip	Shipment Reference number assigned by the supplier	X	X	11K	X		10		X			X	
Date	Date indicating the date of manufacturing, date of packing, or date of shipment				X		N/A	X					
Ship To	Shipping address of the destination plant				X		N/A	X	X	X			
Ship From	Company name, address, and phone number of the Supplier				X		N/A	X	X	X			
Part Description	Part description as stated on the TRW Purchase order				X		N/A	X					
Certification Status	Supplier certification status as determined by TRW Purchasing				X		N/A	X					
Supplier Part Number	Part Number as assigned by the supplier	X	X	1P	X						X		

4. GENERAL LABEL INFORMATION - Format, Size and Material

4.1 Format

Label format is an open architecture structure utilizing modular “building block(s)” as described in the AIAG B-10 specification. Each data area **SHALL** have the Data Title and utilize Data Identifiers as shown in the label exhibits. Recommended label formats are described in exhibits A through E. Refer to AIAG B-10 specification, Version 2.00 released 2/00 for additional label formatting and data specifications not described in this specification. All labeling must conform to the aforementioned AIAG and ANSI specifications identified previously in this specification.

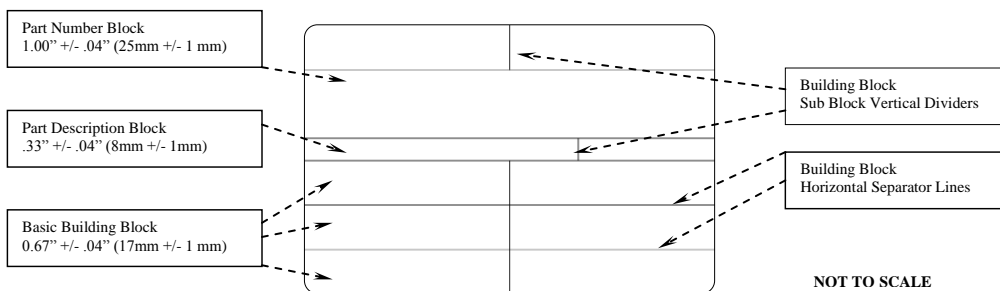
4.2 Building Blocks

Building blocks (*Figure 3*) are a horizontal basic unit structure used to simplify label formatting. The building block format is based on a 0.67” +/- 0.04” (17mm +/-1mm) height horizontal block, which may contain text, graphics or single bar code field containing human readable interpretation. Building blocks **SHOULD** be stacked vertically. A horizontal line extending the entire length of the label **SHALL** separate vertically stacked building blocks.

4.3 Sub Block

A Sub Block is a method of dividing a Building Block into segments to allow additional data fields to be utilized within a horizontal Building Block. Sub Blocks are equivalent to the full Building Block height and **SHALL** be divided by vertical lines. The label **SHALL NOT** contain more than four (4) Sub Blocks within a Building Block. Sub Blocks can be any width. The Width **SHALL** be determined by the data being illustrated within the Sub Block.

Figure 3 - Building Block Format - Carton Label



**Building block height shall be 0.67 inch +/- 0.04 inch (17mm +/- 1mm), unless otherwise noted, and SHALL be separated by a horizontal line.
A vertical line SHALL divide building block or Sub-block segments**

4.4 Label Size

The size of the label is determined by the amount of data required and is the responsibility of the Supplier to choose the proper label size to accommodate the information relative to the data requirements in this specification. The number of building blocks required to illustrate the information on the label **SHALL** determine the label

height. The Supplier **SHALL** determine the label width. Recommended minimum label size is approximately 4"X 6" (100mm X150mm).

4.5 Material and Print Quality

The label paper **SHALL** be white in color with black printing. The printing media **SHALL** be of proper carbon content to insure passing ANSI X3.182 Bar Code Print Quality guideline. The minimum symbol grade **SHALL** be:

- Minimum print quality grade = 1.5 (C)
- Measure aperture = 0.10 " (0.254mm)
- Inspection wavelength =660 nanometers +/- 10 nanometers

Adhesive types can be pressure sensitive or dry gummed as long as adherence to the package substrate is assured and application is wrinkle-free.

~~5.~~
~~6.5.~~ **BAR CODE TEXT and HUMAN READABLE CHARACTERS**

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~~6.1~~
~~6.2~~

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~~6.35.1~~ **Data Titles, Data Identifier Text and Human Readable Interpretation of Code 128**

All Human Readable text must comply with the AIAG B-10 specification version 1.00 5/99
The Characters **SHALL** be clearly legible. A Sans Serif font such as Arial is recommended.

All human readable data **SHALL** be printed in upper case characters.

Human readable interpretation of the Bar Code symbol **SHALL NOT** include start/stop characters or human readable Data Identifier(s).

The following table (*Figure 4*) lists the recommended character text sizes for all labels except the Internal Container Label (sub-pack). Refer to section 7 Sub Pack/Internal Container Labeling for Sub Pack/Internal Container specifications.

Figure 4 - Text Size and Dimensions

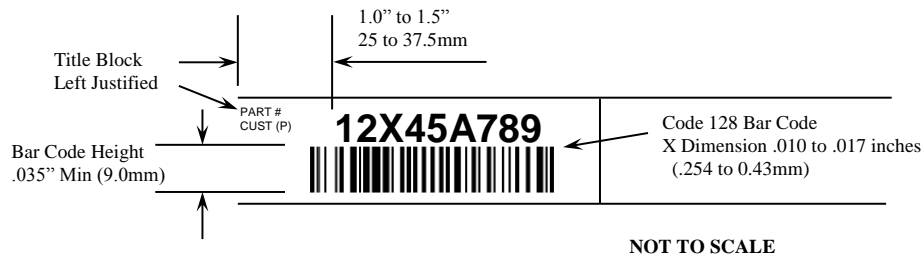
Data Element	Text Size	Notations
Data Titles	6 Point	Two lines maximum, Left Justified
Human Readable Data Identifiers	6 Point	In parenthesis, included in Data Title, or Left Justified directly above the Bar Code
Bar Code Human Readable interpretation	20 Point unless otherwise noted	Positioned directly above the Bar Code
Part Number Human Readable interpretation	32 Point	
Ship to:	12 Point	
Ship From	12 Point	
Manufacturing Date Code	20 Point	
Part Description	20 Point	
Supplier Certification Status	36 Point	
The Words Master Label	36 Point	
The Words Mixed Load	108 Point	

7.6. BAR CODE REQUIREMENTS

7.46.1 Bar Code Block Format

Figure 5 outlines Bar Code Block layout. Except as noted under SubPack/ Internal Container Labeling, Bar Code Building block height is 0.67" +/- 0.04" (17mm +/-1mm) A sub block **SHALL NOT** contain more than one bar code symbol. Figure 5 illustrates use of a building block, Bar Code height, Title Block, Human Readable text alignment, Code 128 Bar Code and X Dimension.

Figure 5 - Bar Code Building Block



7.2

7.36.2 Symbology

Unless otherwise specified (in the Sub-Pack specification) all Bar Codes **SHALL** be AIM Uniform Code 128 symbology.
A leading space character **SHALL NOT** be used.
Code 128 symbology check character option **SHALL NOT** be used.
The four characters %,/, \$,+ **SHALL NOT** be used.

7.4

7.56.3 Narrow Element X Dimension

ALL Bar Codes **SHALL** use a narrow element X dimension of 0.010 inch to 0.017 inch (.254mm to 0.43mm).

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(except Sub/Pack Internal Container Label).

~~7.6~~

7.76.4 Bar Code Height

Each Bar Code symbol **SHALL** be a minimum height of .35 inch (13 mm) except as defined under Subpack/Internal Container Labeling when using code 128 Symbology.

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~~7.8~~

7.96.5 Bar Code Symbol Placement

SHALL be as illustrated in the exhibits relative to the type of label being used.

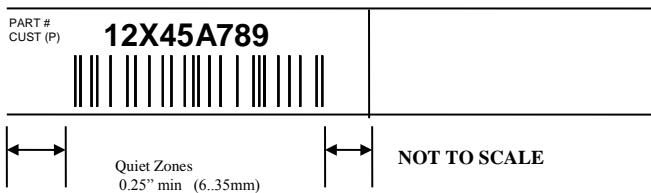
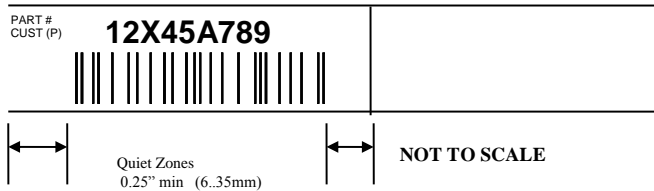
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Using additional bar code symbols on shipping packages is not encouraged but may be appropriate in certain circumstances. Any additional code 128 symbols placed on the label or elsewhere on the container **SHALL** use data identifiers as defined in the American National Standards Institute (ANSI) Data Identifier Standard ANSI MH10.8.2

7.406.6 Quiet Zones

The Bar Code symbol **SHALL** have leading and trailing quiet zones with minimum widths of .25" (6.3mm) (figure 6).

Figure 6 - Quiet Zones



7.416.7 Data Identifiers

7.41.16.7.1 Use of Data Identifiers

A data identifier (sometimes referred to as a DI, or a prefix) is one or more characters that defines a general category type or specific use of bar coded data. Data Identifiers are

used as described in the ANSI MH10.8.2 specification. All Code 39 and 128 symbols **SHALL** contain Data Identifiers and **SHALL** conform to the ANSI MH10.8.2 Data Identifier standard. Data Identifiers are not considered part of the data they precede.

The data identifier(s) (*figure 7*) **SHALL** immediately follow the start character in the bar code symbol and will identify the type of information used in that symbol. **Care must be taken that the bar code data has the proper data identifier.** TRW requires data identifier use as specified in ANSI MH10.8.2 and ISO standards.

~~7.11.26.7.2~~ **Data Identifier Listing**

The data identifiers listed below **SHALL** be used on TRW Automotive labels when these specific data fields are being used.

Figure 7 - Data Identifier Listing

Data Identifier	Data Area
P	Part Number
Q	Quantity
V	Supplier Number – Assigned by TRW
S	Serial Number – Single Pack Label
4S	Serial Number – Master Label
K	Purchase Order Number
11K	Packing Slip
1T	Supplier Lot Number
1P	Supplier Part Number – For use with Internal Carton or Sub Packs
2P	Revision Level

Note: That the serial number data identifiers for the Single Pack and Master Pack labels are different from one another.

8.7. LABEL LOCATION AND PROTECTION

8.47.1 Label Location

Refer to the TRW Purchase Order or Material Release for any special application instructions of labels. Two labels **SHALL** be used for each Single Pack carton, Master or Mixed load container. The labels **SHALL** be on adjacent corners of the container. It is the Supplier's responsibility to adequately design packaging that provides sufficient container surface to insure label adherence and complete readability.

Returnable Containers

In cases where returnable containers are used and the container has label holders on opposite sides the labels may be placed in these holders.

Labels **SHOULD** be located no closer than 1.25 inches (32 mm) from the edge of the container and 1.25 inches (152 cm) from the top of the container.

8.27.2 Label Protection

Label protection **SHALL** be the responsibility of the Supplier to insure readability upon receipt at TRW. Label protection against moisture, weathering, abrasion, etc., is encouraged wherever practical. Laminates, window envelopes, and clear plastic pouches are examples of possible protection methods.

In choosing any protection method, care **SHALL** be taken to assure the protected labels meet reflectivity and contrast requirements and can be scanned with contact and non-contact devices.

8.37.3 Returnable Containers

Returnable containers are reusable containers such as tubs or racks that are mutually designated by TRW Automotive and the supplier to move materials back and forth between the two trading partners.

All shipping/parts identification labels on returnable containers **SHALL** be removed before reuse in order to control movement, maintain cleanliness and assure properly identified contents.

9.8. BAR CODED PACKING SLIP – Optional

Note: A bar coded packing slip may be required by the TRW Automotive location being shipped to. Requests will be made directly to suppliers by those TRW facilities wishing to receive a bar coded packing slip.

9.18.1 Packing Slip/Delivery Note Number

Each shipment **SHALL** have unique supplier shipping reference number called out on the packing slip, manifest or delivery note number. The supplier **SHALL** assign this number. This number links the material(s) being delivered to receiving reference data for shipment traceability and account reconciliation purposes.

9.28.2 Packing Slip Bar Code Guidelines

The Supplier **SHALL** send with each shipment a packing slip, manifest or delivery note that **SHALL** have the packing slip, manifest or delivery note number bar coded to be used in expediting the delivery receipt process (*figure 8*).

The bar code information under this section **SHALL** follow the bar coding guidelines as specified in sections 2, 3 and 4 in this document.

The human readable interpretation of the bar code **SHALL** be between 3 and 5 LPB. The minimum height of the bar code symbol **SHALL** be 0.5 inch (13mm). The human readable data identifier (11K) and Bar Code title block **SHALL** be present.

The maximum length of the packing slip number **SHALL NOT** exceed (16) alphanumeric characters plus the data identifier.

The supplier **SHOULD** make every effort to add the following information in Bar Code including Data Identifiers and human readable format using the specifications in this document.

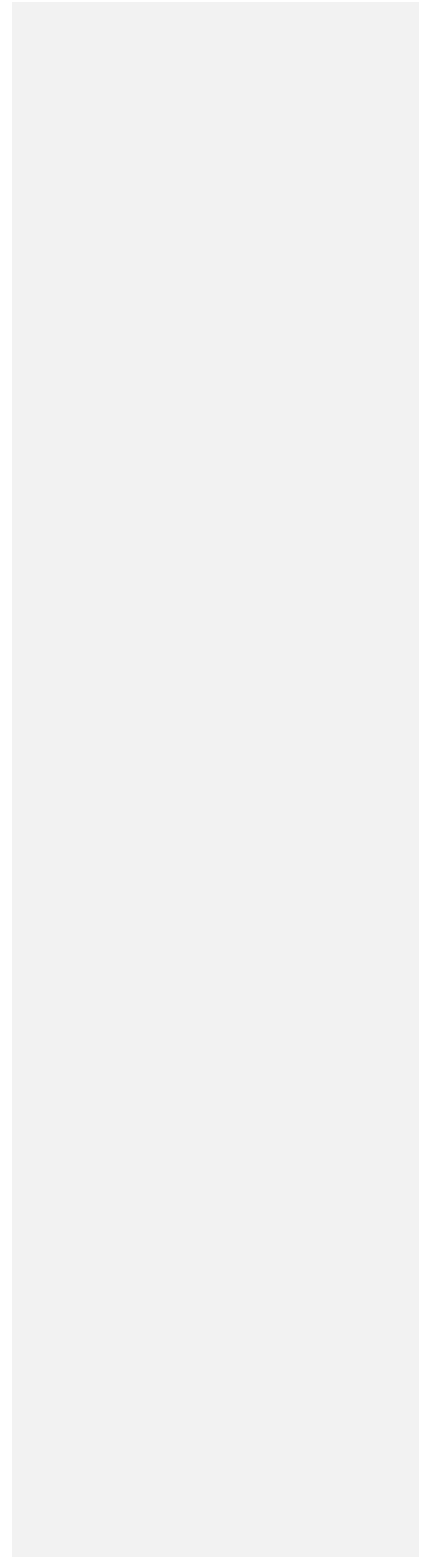
- Purchase Order Number (Option to list the P.O. number on the Bar Code Carton Label or Bar Coded Packing Slip)
- TRW Part Number
- Total Packing Slip Quantity

Figure 8 - Bar Coded Packing Slip



NOT TO SCALE

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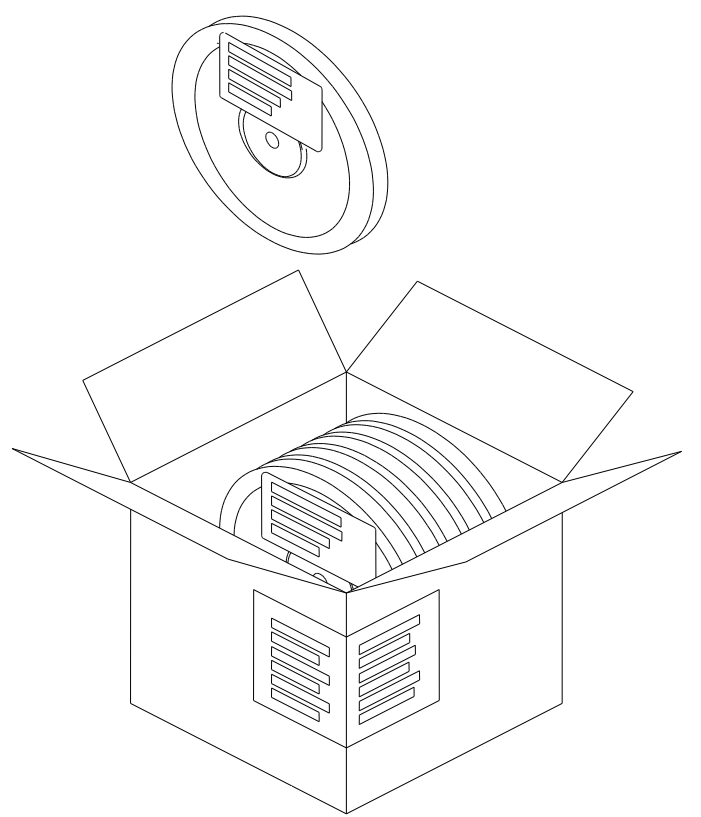
40.9. SUBPACK/INTERNAL CONTAINER LABELING

40.19.1 Data Area Characteristics-Internal Container Label (sub-pack)

The specifications in this section apply to the Internal Container Labeling.

This label application applies when material is packaged in smaller packages (subpacks), within a single pack carton that is intended to be used/consumed within the manufacturing process in the Internal Container (subpack) in which it is packaged. (*figure 9*)

Figure 9 – Electronic Components packaged on reel with multiple reels packaged in one container.



40-29.2 Subpack Bar Code Symbology

The supplier **SHOULD** use code 39 symbology and follow the specifications outlined in sections 2,3 and 4 of this specification. In the event the area on the sub-pack is not large enough to support code 39 then code 128 **SHALL** be used. UCC/EAN Retail Application sub set **SHALL NOT** be used. In either case the data identifiers and human readable interpretation of the bar code **SHALL** follow this specification.

40-39.3 Bar Code and Human Readable Requirements

The supplier **SHALL** provide the following information in bar code and human readable format (figure 10) including Data Identifiers (figure 7).

- TRW Part Number
- Sub-Pack Quantity
- Supplier Lot Identification Number

The Supplier **SHOULD** provide in human readable format the following data fields.

- Part description
- Supplier Code

The maximum length of the Supplier Lot Identification Number **SHALL NOT** exceed (10) alphanumeric characters plus the data identifier.

Depending upon the symbology used Sub-Pack bar code and human readable characters **SHALL** be a minimum height of:
Code 128 .125" (3 mm)

Figure 10 - Internal Container Label



Ship-to Information

Title Block = TO:

Data = Shipping address of destination as defined on the TRW Purchase Order

Text Height = 12 Point

Max Characters = 3 Lines, 28 Characters

Part Number

Title Block = PART NUMBER (P)

Data = Part Number as designated by TRW

Data Identifier (DI) = P

Text Height = 32 Point

Maximum Length = 18 Data + 1 DI

Part Description

Title Block = DESCRIPTION

Data = The official description of this part as defined on the TRW Purchase Order

Text Height = 20 Point

Max Characters = 1 Line, 20 Characters

Quantity of Pieces

Title Block = QUANTITY (Q)

Data = Number of pieces in container

Data Identifier (DI) = Q

Maximum Length = 5 Data + 1 DI

Supplier ID Number

Title Block = SUPPLIER NUMBER (V)

Data = Supplier Code assigned to your location by TRW

Data Identifier (DI) = V

Maximum Length = 7 Data + 1 DI

Exhibit A
Single Carton Label

- All Bar Codes shall be Code 128 Symbology
- All Bar Codes shall be .35" in height
- All Bar Codes shall use a narrow element size as defined in AIAG B-10 rev 2.
- Unless specified otherwise, human readable interpretation of all Bar Codes shall be 20 point font size

NOTE: Illustration is NOT actual size

Supplier Information

Title Block = FROM

Data = Name and Address of supplier

Text Height = 12 Point

Max Characters = 3 lines, 28 Characters

Date

Title Block = DATE (MM-DD-YY)

Data = A Date indicating either the date of manufacture, packing date, or shipping date in the format MM-DD-YY

Text Height = 20 Point

Max Characters = 8 Characters

Purchase Order Number

Title Block = PO NUMBER (K)

Data = P.O. number as defined by TRW

Data Identifier (DI) = K

Maximum Length = 10 Data + 1 DI

Revision Level

Title Block = REVISION (2P)

Data = TRW Revision level the material is manufactured to.

Data Identifier (DI) = 2P

Maximum Length = 3 Data + 2 DI

Supplier Lot Number

Title Block = LOT NUMBER (1T)

Data = Supplier assigned Lot number, unique for the material in this container, traceable back to supplier's MFG lot

Data Identifier (DI) = 1T

Maximum Length = 10 Data + 2 DI

TO: TRW AUTOMOTIVE 800 HEATH ST LAFAYETTE IN 47902		FROM: GROTE INDUSTRIES 2600 LANIER DRIVE MADISON IN 47250	
PART NUMBER (P) 480827			
DESCRIPTION TURN SIGNAL SWITCH		DATE (MM-DD-YY) 10-26-02	
QUANTITY (Q) 50	PO NUMBER (K) 5500012637		
SUPPLIER NUMBER (V) 136305	CERTIFICATION STATUS	REV LEVEL (2P) G	
SERIAL NUMBER (S) 1234598760	LOT NUMBER (1T) 9876501234		

Carton Serial Number

Title Block = SERIAL NUMBER (S)

Data = Supplier assigned control number unique for this carton, not to be repeated within 365 days

Data Identifier (DI) = S

Maximum Length = 10 Data + 1 DI

Supplier Certification Indicator

Title Block = CERTIFICATION STATUS

Data = The letter C for Certified Suppliers.

Text Height = 36 Point

Maximum Characters = 1 Character

Label Purpose/Use: SINGLE CONTAINER LABEL FOR SHIPMENT TO TRW
Single Container Label for shipment to TRW holding one or more parts of a single part number. Questions contact Purchasing.

Any dimensions that are not otherwise specified on this page SHALL be in compliance with AIAG B-10, Version 01.00, 5/95

Exhibit B

Master Load Label

- All Bar Codes shall be Code 128 Symbology
- All Bar Codes shall be .35" in height
- All Bar Codes shall use a narrow element size as defined in AIAG B-10 rev 2.
- Human Readable interpretation of all Bar Codes shall be 20 point font size

NOTE: Illustration is NOT actual size

MASTER LABEL	
TO: TRW AUTOMOTIVE 800 HEATH ST LAFAYETTE IN 47902	FROM: GROTE INDUSTRIES 2600 LANIER DRIVE MADISON IN 47250
PART NUMBER (P) 480827	REVISION (2P) G
QUANTITY (Q) 200	PO NUMBER (K) 5500012637
SUPPLIER NUMBER (V) 136305	PACKING SLIP (11K) 1527018
PKG ID-MASTER (4S) 1123456987	LOT NUMBER (1T) 9987654123

Ship-to Information

Title Block = TO:

Data = Shipping address of destination as defined on the TRW Purchase Order

Text Height = 12 Point

Max Characters = 3 Lines, 28 Characters

Part Number

Title Block = PART NUMBER (P)

Data = Part Number as designated by TRW

Data Identifier (DI) = P

Maximum Length = 18 Data + 1 DI

Quantity of Pieces

Title Block = QUANTITY (Q)

Data = Number of pieces in container

Data Identifier (DI) = Q

Maximum Length = 5 Data + 1 DI

Supplier ID Number

Title Block = SUPPLIER NUMBER (V)

Data = Supplier Code assigned to your location by TRW

Data Identifier (DI) = V

Maximum Length = 7 Data + 1 DI

Master Pack Serial Number

Title Block = PKD ID-MASTER (4S)

Data = Supplier assigned control number unique for this Master Pack, not to be repeated within 365 days

Data Identifier (DI) = 4S

Maximum Length = 10 Data + 2 DI

Supplier Lot Number

Title Block = Lot Number (1T)

Data = Supplier assigned Lot number, unique for the material in this container, traceable back to supplier's MFG lot

Data Identifier (DI) = 1T

Maximum Length = 10 Data + 2 DI

Master Label Indicator

Title Block = none

Data = The words "MASTER LABEL"

Text Height = 36 Point

Supplier Information

Title Block = FROM

Data = Name and Address of supplier

Text Height = 12 Point

Max Characters = 3 lines, 28 Characters

Revision Level

Title Block = REVISION (2P)

Data = TRW Revision level the material is manufactured to.

Data Identifier (DI) = 2P

Maximum Length = 3 Data + 2 DI

Purchase Order Number

Title Block = PO NUMBER (K)

Data = P.O. number as defined by TRW

Data Identifier (DI) = K

Maximum Length = 10 Data + 1 DI

Packing Slip Number

Title Block = PACKING SLIP (11K)

Data = Supplier assigned packing slip number, unique for this shipment.

Data Identifier (DI) = 11K

Maximum Length = 10 Data + 3 DI

Label Purpose/Use: MASTER LABEL FOR SHIPMENT TO TRW
Pallet or Master Load containing more than one single pack of the same part number. The master label is used to summarize the total contents of a single load or palletized shipping unit.

Any dimensions that are not otherwise specified on this page SHALL be in compliance with AIAG B-10, Version 2.00, 2/00

Exhibit C

Mixed Load Label

NOTE: Illustration is NOT actual size

Ship-to Information

Title Block = SHIP TO

Data = Shipping Address of the destination plant as defined on the TRW Purchase Order

Text Height = 12 Point

Max Characters = 3 Lines, 28 Characters

Supplier Information

Title Block = SHIP FROM

DATA = Name and Address of Supplier

Text Height = 12 Point

Max Characters = 3 Lines, 28 Characters

SHIP TO: TRW AUTOMOTIVE LAFAYETTE IN 47902 800 HEATH ST	SHIP FROM: GROTE INDUSTRIES 2600 LANIER DRIVE MADISON IN 47250
MIXED LOAD	

Mixed Load label indicator

Title Block = None

Data = The words "MIXED LOAD"

Text Height = 108 Point

Label Purpose/Use: MIXED LOAD LABEL FOR SHIPMENT TO TRW
Pallet or Master Load containing more than one single pack of different part numbers. The MIXED LOAD label is used to indicate multiple part numbers on a single pallet or load

Any dimensions that are not otherwise specified on this page SHALL be in compliance with AIAG B-10, Version 2.00, 2/00

Exhibit D

Internal Container Label (Subpack Label)

- All Bar Codes shall be Code 128 Symbology
- All Bar Codes shall be .30" in height
- All Bar codes shall use a narrow element size of .010"-.017"
- Unless otherwise specified, human readable interpretation of all Bar Codes shall be 12 point font size

		PLANT 17 24175 Research Drive Farmington Hills, MI 48335	
QUANTITY	654221	CHANGE LETTER	
PART # CUST (P)	201451-01		2
QUANTITY (Q)	99999	PART # SUPP (1P)	Y00D001L1
SUPP LOT NO (1T)	1948M0925	Intentionally left blank. Available for supplier use.	

Part Number
 Title Block = PART #
 CUST (P)
 Data = Part Number as designated by TRW
 Data Identifier (DI) = P
 Maximum Length: Max. Chars = As defined by TRW purchase order + DI

Part Number
 Title Block = PART #
 CUST (P)
 Data = Part number as designated by TRW
 Data Identifier (DI) = P
 Maximum Length = 18 Data + 1 DI

human-readable text only, next to the

Quantity of Pieces
 Title Block = QUANTITY (Q)
 Data = Number of pieces in container
 Data Identifier (DI) = Q
 Maximum Length = 5 Data + 1 DI
 Note: Unit of measure is assumed as EACH. Any other unit of measure must appear in human-readable text only, next to the interpretation of the bar code.

Container Label Serial Number
Supplier Lot Number
 Title Block = LOT NUMBER (1T)
 Data = Supplier assigned Lot number, unique for the material in this container, traceable back to supplier's MFG lot
 Data Identifier (DI) = 1T
 Maximum Length = 10 Data + 2 DI

Highlighting Lines
 Optional - To be used ONLY:
 - Above the Supplier ID and
 - Below the Pkg ID (serial number)
 Data Dividing Lines are Optional.
 10 characters

Ship-to Information
 Title Block = SHIP TO
 Data = Shipping Address of the destination plant as defined on the TRW Purchase Order
 Text Height = 5 LPB for Plant Name, 6 LPB for all other text

Change Letter
 Title Block = CHANGE LETTER

Supplier Part Number
 Title Block = PART #
 SUPP (1P)
 Data = Supplier's Internal Part Number
 Data Identifier (DI) = 1P
 Maximum length = Defined by supplier

Part Name
 Title Block = PART NAME
 Data = The official description of this part as defined on TRW purchase order

Supplier Information
 Title Block = SHIP FROM
 Data = Name and address of Supplier, with a telephone number that can be used in case of problems or questions
 Text Height = 6LPB
 Max. characters = up to 5 lines of text up to 25 char's on a single line

Label Purpose/Use: Internal Container (Subpack) FOR SHIPMENT TO TRW
 Identification label used to indicate the suppliers manufacturing lot number for traceability and traceability within the manufacturing process

Any dimensions that are not otherwise specified on this page SHALL be in compliance with AIAG B-4, Version 2.00, 2/98

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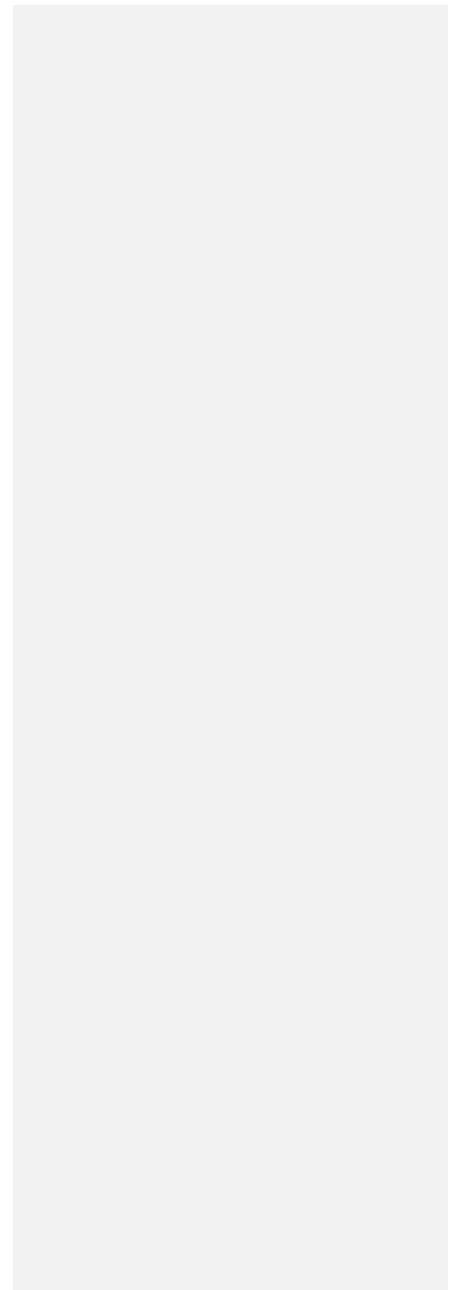


Exhibit C
Mixed Load Pallet Label
 NOTE: Illustration is NOT actual size.

Supplier Information

Title Block = SHIP FROM

Data = Name and address of Supplier, with a telephone number that can be used in case of problems or questions

Text Height = 6LPB

Ship-to Information

Title Block = SHIP TO

Data = Shipping Address of the destination plant as defined on the TRW Purchase Order

Text Height = 5 LPB for Plant Name, 6 LPB for all other text

Supplier ID Number

Title Block = SPLR ID
 CUST ASGN (V)

Data = Supplier Code assigned to your location by TRW

Data Identifier (DI) = V

Maximum Length: Max. Chars = As defined by TRW + DI

SHIP TO TRW, INC PLANT 17 24175 Research Drive Farmington Hills, MI 48335	SHIP FROM ACME IDEAL AUTO PARTS 26 AJO WAY TUCSON, AZ 98279 602-555-1212
MIXED LOAD	
SPLR ID CUST ASGN (V) 982795 [Barcode]	
PKG ID-MIXED (5S) 1948M0925 [Barcode]	

Mixed Load label indicator

Title Block = None

Data = Mixed Load Text Block

Text Height = 1 to 2 LPB

Intentionally left blank.
 Available for supplier use.

Container Label PKG. ID Number

Title Block = PKG ID-MIXED
(5S)

Data = A supplier-assigned control number, unique for this container, not to be repeated within 365 days.

Data Identifier (DI) = 5S

Maximum Length: Max. Chars = 9 data char's + 2 char. DI

Label Purpose/Use: MIXED LOAD LABEL FOR SHIPMENT TO TRW AE: Pallet or Master Load containing more than one single pack of different part numbers. The MIXED LOAD label is used to indicate multiple part numbers on a single pallet or load

Any dimensions that are not otherwise specified on this page SHALL be in compliance with AIAG B-10, Version 01.00, 5/95

Exhibit D
Quick Receive Label
 NOTE: Illustration is NOT actual size.

Supplier ID Number
 Title Block = SPLR ID
 CUST ASGN (V)
 Data = Supplier Code assigned to your location by TRW

 Data Identifier (DI) = V
 Maximum Length: Max. Chars = As defined by TRW + DI

Container Label Serial Number
 Title Block = ASN SHIPMENT ID/
 QUICK RECEIVE
 Data = A supplier-assigned shipment control number, unique for this shipment, Typically the shipment Bill of Lading number.
 Data Identifier (DI) = 2S
 Maximum Length: Max. Chars = 17 data char's + 2 DI

Quick Receive Label Indicator
 Title Block = None
 Data = Quick Receive Text Block
 Text Height = 1 to 2 LPB

<p>Label Purpose/Use: Quick Receive Label FOR SHIPMENT TO TRW AE: Shipment Identification label used to match suppliers incoming shipment with information being sent from the Supplier on the EDI 867 Advance Ship Notice (ASN) transaction.</p>	<p>NOTE: Illustration is NOT actual size. Any dimensions that are not otherwise specified on this page SHALL be in compliance with AIAG B-10, Version 01.00, 5/95</p>
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Exhibit E

Internal Container Label (Subpack Label)

NOTE: Illustration is NOT actual size.

Part Number

Title Block = PART #
CUST (P)

Data = Part Number as designated by TRW

Data Identifier (DI) = P
Maximum Length: Max. Chars = As defined by TRW purchase order + DI

Quantity of pieces

Title Block = QUANTITY
(Q)

Data = Number of pieces in this container

Data Identifier (DI) = Q
Maximum Length: Max. Chars = 6 data char's + DI
Note: Unit of measure is assumed as EACH. Any other unit of measure must appear in human-readable text only, next to the interpretation of the bar code.

Supplier Lot Number

Title Block = SUPP LOT
NO (1T)

Data = Supplier lot or traceability control number, unique for the material in this container. Assigned by Supplier and traceable back to the Suppliers MFG lot


Data Identifier (DI) = 1T
Maximum Length: Max. Chars = 10 data char's

Supplier Part Number

Title Block = PART #
SUPP (1P)

Data = Suppliers internal part number

Data Identifier (DI) = 1P
Maximum Length: Defined by the Supplier

PART # CUST (P)	201451-01	
QUANTITY (Q)	999999	PART # SUPP (1P)
SUPP LOT NO.(1T)	1948M0925	Y00D001L1

Data Dividing Lines are Optional

Intentionally left blank.
Available for supplier use.

Label Purpose/Use: Internal Container (Subpack) FOR SHIPMENT TO TRW
AE: Identification label used to indicate the suppliers manufacturing lot number for tractability and traceability with in the manufacturing process

Any dimensions that are not otherwise specified on this page SHALL be in compliance with AIAG B-4, Version 02.00, 2/98