



**2D Label Global Guidelines**  
Container – Bundle – Pizza Box  
Master – Mixed Load Labels



## Label Requirements

Container Load Label

Pizza Box Label

Master Load Label

Mixed Load Label

Additional Requirements Summary

- As part of Lear Corporation's business requirements, 2D codes will need to be displayed on all the new templates for container, bundle, pizza box, master and mixed load labels
  - This transition will be a Lear global standard and create a more effective tool for communicating data in the delivery process
- Label template examples are to follow with the identification of the specific data and placement for each label/code to comply with the newest business requirements at Lear Corporation
  - 1D barcodes will be kept on the labels during the transitional period, but will be removed after two years (Q2 2020)

## Label Dimensions Requirements:

- Container Label dimensions – about 4”(102 mm) high by 6” (152 mm) wide
- Pizza Box Label dimensions – about 2.5” (64 mm) high by 20” (508 mm) wide
- Master Load Label dimensions – about 4”(102 mm) high by 6” (152 mm) wide
- Mixed Load Label dimensions – about 4”(102 mm) high by 6” (152 mm) wide

## Font/Color Requirements:

- Font sizes are specified for readability – Ensure size is readable at arm’s length, one yard/meter
- Labels shall be printed with **BLACK CHARACTERS** on **WHITE BACKGROUND**
  - Any label color other than white is to be determined by the local Lear plant receiving shipments
- Fonts shall be **UPPERCASE BOLD ARIAL NARROW** (used in this document), **HELVETICA CONDENSED** or **EQUIVALENT**
  - Part and serial numbers have a maximum character length of 18 characters

## General Label Requirements:

- Bar code symbologies: Code 128 linear barcode and Data Matrix 2D code
- Date format shall be determined for each region
  - For example, in North America, follow the US format of “MMDDYYYY” (EG: 03082017 = March 8, 2017)
  - For example, in Europe, follow the EU standard of “DDMMYYYY” (EG: 08032017 = March 15, 2017)
- Labels shall be verified as legible by the supplier per AIAG B8, B10, B14, B16, QS9000 and ISO standards (NOTE: bar code must be easily scannable and meet or exceed ANSI print quality “C” at point of receipt)
- Adhesive backing is required for each label
- Labels shall be affixed in accordance with Lear Corporation Supplier Packaging Requirements & Guidelines (V.1.05)
- Any requirements that are not otherwise specified in this document SHALL BE in compliance with AIAG B8, B10, B14, B16, QS9000 and ISO standards
- For numeric data (ie. weight): use “,” for separators and “.” for decimal
- Unit of measure must be as listed on the Lear purchase order and printed in human readable characters only

- Within the 2D code, the data will need to be displayed in a specific sequence
- In the sequence, there will be data identifiers and separators
  - Data identifiers are used to identify each data element
  - Data separators are used to separate different data elements
- 2D code utilizes a data separator to divide data elements
  - Specific data separator is displayed directly below
    - Color used for highlighting purposes
- If there is no data for a data element, there is no placeholder data identifier within the 2D code



- Ship From & Ship To – Alpha Numeric
  - Line 1 – 28 Characters
  - Line 2 – 28 Characters
  - Line 3 – 28 Characters
  - Line 4 – 28 Characters
  - City – 20 Characters
  - State – 4 Characters
  - Postal Code – 10 Characters
- Label can hold a maximum of 30 characters across, so in the City, State, Postal Code line, abbreviations may be required to stay at 30 characters

## 2D Label Data Field Size & Format (Continued)



- Description – Alpha Numeric
  - Line 1 – 24 Characters
  - Line 2 – 24 Characters
- Lot Number – Alpha Numeric – 18 Characters
- Supplier Code – Alpha Numeric – 8 Characters
- Part Number – Alpha Numeric – 15 Characters
- Quantity – Numeric – 8 Characters
- Serial Number – Alpha Numeric – 18 Characters
- Location – Alpha Numeric – 8 Characters
- Supplier Part Number – 15 Characters
- Date – Numeric – 8 Characters
- Engineering Revision – Alpha Numeric – 4 Characters
- License Plate Number – Alpha Numeric – 18 Characters
- Pallet Container Count – Numeric – 2 Characters
- Container Serial Numbers – Alpha Numeric – 18 Characters
- Part Number Containers – Numeric – 2 Characters
- Free Form – Alpha Numeric
  - Line 1 – 40 Characters
  - Line 2 – 40 Characters



- Leading zeros for Serial Numbers and License Plate Numbers are not recommended until after the maximum field lengths have been reached without the use of leading zeros
  - 0000012345 – No
  - 12345 – Yes
  - 0000012345 ≠ 12345
- Serial/License Plate Numbers never repeat; to increase the total amount of numbers that can be used there are options:
  - Alpha Characters – A12, B12, 12A, 12B, 1A2, 1A22
  - Leading Zeros – 012, 0012, 00012 (Second Choice)
- Use of Decimal Points “.” and Commas “,”
  - Decimal Points and Commas are considered a character

Label Requirements

**Container Load Label**

Pizza Box Label

Master Load Label

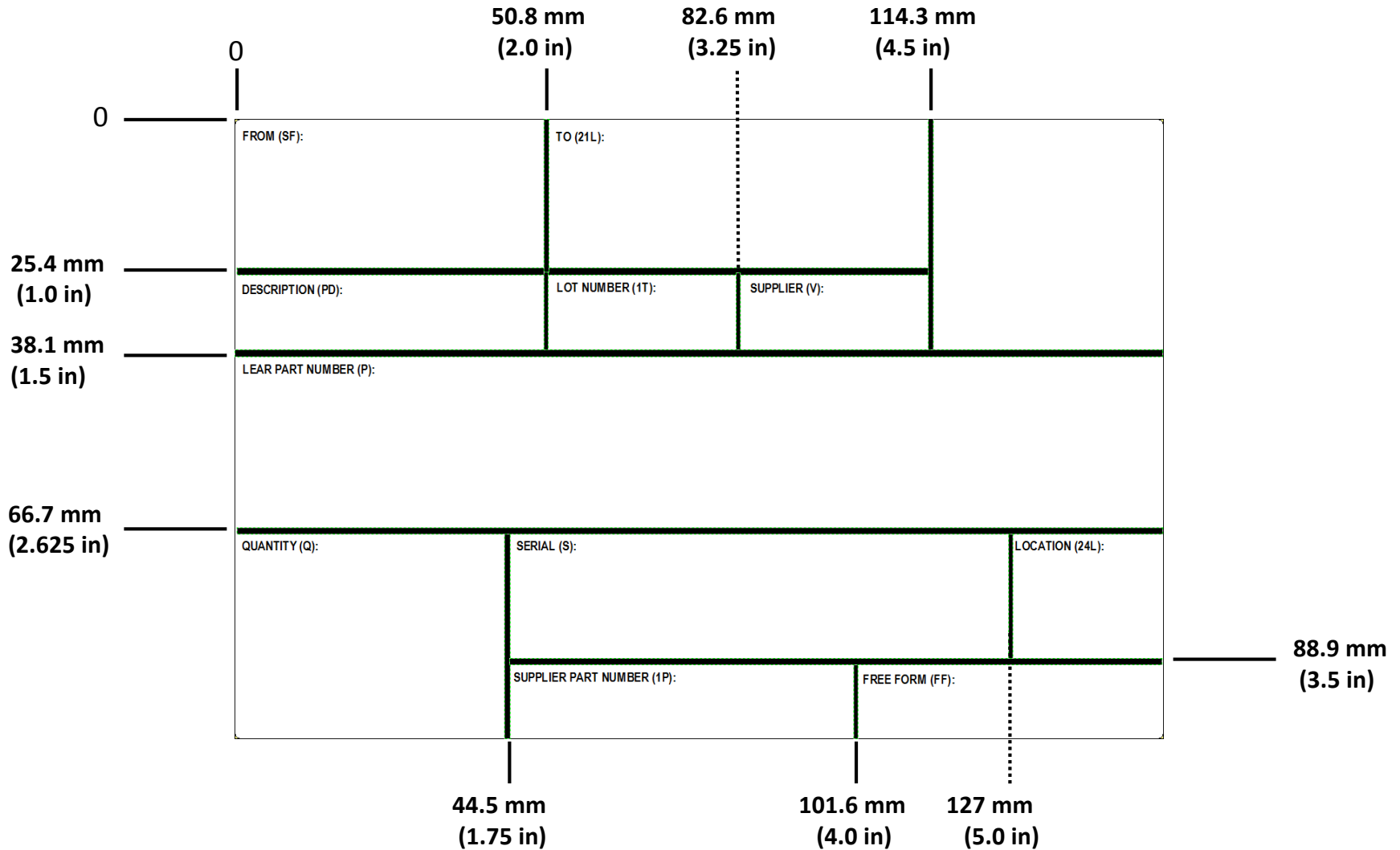
Mixed Load Label

Additional Requirements Summary

# Container/Bundle Label Measurements



Label Dimensions: 4 x 6 in



# Container/Bundle Label Format & Data

**M** = Mandatory

**O** = Optional



**M**  
Block Title = Ship From  
 Data Identifier = SF  
 Font size 6  
**Address 4 lines max**  
 Data = Ship from location  
**Text**  
 Font size 10

**M**  
Block Title = Ship To  
 Data Identifier = 21L  
 Font size 6  
**Address 4 lines max**  
 Font size 10  
**Text**  
*Data Source = EDI(830/862)*  
 Font size 28, 6 Character max

**M**  
2D Barcode: see code in slide 10 for details

**M**  
Block Title = Supplier  
 Data Identifier = V  
 Font size 6  
**Text**  
 Data = Lear Assigned Supplier Code  
 Font size 10  
**Barcode (Include quiet zones)**  
 Code 128  
 Height 0.25", Narrow bar width 2 dot, width 10 mil

**O**  
Block Title = Lot Number  
 Data Identifier = 1T  
 Font size 6  
**Text**  
 Font size 18  
 Data = Lot Number

FROM (SF): FROM ADDRESS LINE 1 FROM ADDRESS LINE 2 FROM ADDRESS LINE 3 FROM ADDRESS LINE 4		TO (21L): TO ADDRESS LINE 1 TO ADDRESS LINE 2 TO ADDRESS LINE 3 TO ADDRESS LINE 4		
		183579		
DESCRIPTION (PD): XXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXX		LOT NUMBER (1T): 92392238	SUPPLIER (V): 10360 	

**M**  
Block Title = Lear Part Number  
 Data Identifier = P  
 Font size 6  
**Text**  
 Font size 36  
**Barcode (Include quiet zones)**  
 Code 128  
 Height 0.449", Narrow bar width 7 dot, width 23 mil  
 Data = Lear Part Number  
*Data Source = EDI(830/862)*  
**COUNTRY OF ORIGIN**  
 Font size 10

**M**  
Block Title = Description  
 Data Identifier = PD  
 Font size 6  
**Text**  
 Data = Part description  
 Font size 12

LEAR PART NUMBER (P):  
**L0087234AA01XXXXXX**  
  
 COUNTRY OF ORIGIN

**O**  
Block Title = Location  
 Data Identifier = 24L  
 Font size 6  
 Data = Customer Storage Location  
*Data Source = EDI(830/862)*

**M**  
Block Title = Quantity  
 Data Identifier = Q  
 Font size 6  
**Barcode (Include quiet zones)**  
 Code 128  
 Height 0.29", Narrow bar width 3 dot, width, 15 mil  
 Data = Number of Units Shipped  
**Text**  
 Font size 36  
**UNIT OF MEASURE**  
 Font size 10

QUANTITY (Q): <b>610</b> 	SERIAL (S): <b>78906ABCD567</b> 	LOCATION (24L):
SUPPLIER PART NUMBER (1P): XXXXXXXXXXXXXXXXXXXX		FREE FORM:

**O**  
Block Title = Free Form Area  
 Font size 6  
 Data = Region or Supplier Information  
**Text**  
 Font size 14  
 2 lines max

**M**  
Block Title = Serial  
 Data Identifier = S  
 Font size 6  
**Barcode (Include quiet zones)**  
 Code 128  
 Height 0.33" Narrow bar width 3 dot, width 15 mil  
 Data = Container Serial Number  
**Text**  
 Font size 28

**M**  
Block Title = Supplier Part Number  
 Data Identifier = 1P  
 Font size 6  
 Data = Supplier Part Number  
**Text**  
 Font size 14

# 2D Code Example Container Label



Format header. Begins 2D code data stream **()>RS06**

Purple fonts are data identifiers (DIs)

```
()>RS06[[V2509GT][PL0290535AF075B8][1P12956X374256][PDDRIVER  
FRONT BACK CLOTH GREY][Q60][S123456789123][1T987654321][  
24LB01M][SFSIERRA PLASTICS 99999 RIGHT WAY UBLY MI 48952][  
21LLEAR MTO RIO BRAVO 1500 DD82 AVENIDA RIO BRAVO NO 1181  
PARQUE IND RIO BRAVO CD. JUAREZ, CHIH. C.P. 32550][7Q10RSEOT
```

[[ is the data element separator to be used between data fields

Format trailer. It SHALL be used only once at the end of the message. **7Q10RSEOT**

## 2D Code Example Bundle Label



[>RS06][V2509GT][PL0290535AF075B8][1P12956X374256][PDDRIVER  
FRONT BACK CLOTH GREY][Q60][S123456789123][1T987654321][  
24LB01M][SFSIERRA PLASTICS 99999 RIGHT WAY UBLY MI 48952][  
21LLEAR MTO RIO BRAVO 1500 DD82 AVENIDA RIO BRAVO NO 1181  
PARQUE IND RIO BRAVO CD. JUAREZ, CHIH. C.P. 32550][7Q10RSEOT

Container and Bundle codes are the same, but used for different purposes.  
Container Labels are attached to a shipping container or roll of material in a shipment.  
Bundle labels are used with bulk shipping identifying the Bundle Labels attached to individual  
Bundles of material within the shipment.

# Data Identifiers Container & Bundle Load Label



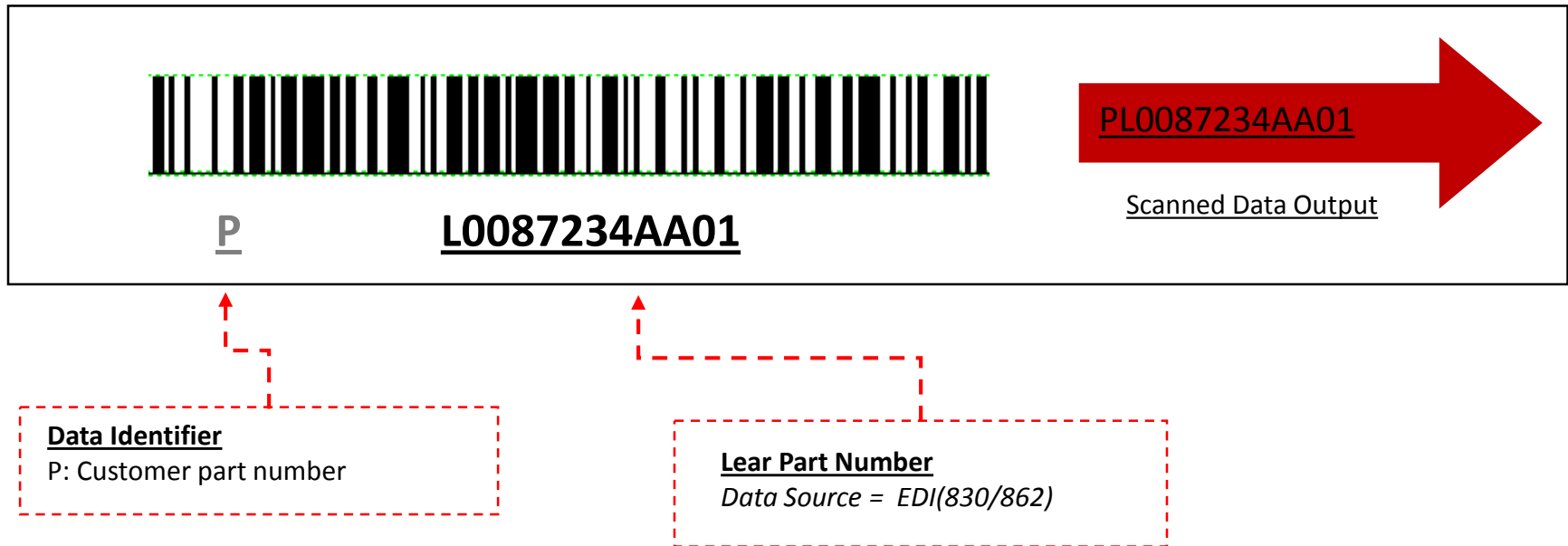
2D CODE DATA & SEQUENCE FOR CONTAINER/ROLL/BUNDLE LABEL			
SEQUENCE	DATA CELL NAME	DESCRIPTION	DATA IDENTIFIER (DI)
1	SUPPLIER	CUSTOMER SUPPLIER CODE	V
2	PART NUMBER	CUSTOMER PART NUMBER	P
3	SUPPLIER PART NUMBER	SUPPLIER PART NUMBER	1P
4	DESCRIPTION	PART DESCRIPTION	PD
5	QUANTITY	QUANTITY PER CONTAINER/ROLL	Q
6	SERIAL NUMBER	CONTAINER/ROLL SERIAL NUMBER	S
7	LOT NUMBER	SUPPLIER LOT NUMBER (IF USED IN MANUFACTURING PROCESS)	1T
8	LOCATION	CUSTOMER STORAGE LOCATION	24L
9	SHIP FROM	SUPPLIER SHIPPING/PLANT ADDRESS	SF
10	SHIP TO	CUSTOMER SHIPPING/PLANT ADDRESS	21L

- Data Identifiers (DIs) define the nature of the data contained within the linear and 2D barcodes
- The table above represent typical DIs used with Lear Corporation North America shipping label templates
- Additional DIs may be used as business processes require and SHALL conform to AIAG B-10, B-14, ANSI, and ISO standards

# Linear/1D/Code 128 Barcode Structure is used in other sections of the label format



## Example



### CODE 128 SPECIFICATION:

- 'X' dimension SHALL be in the range of 0.33 mm (0.013 inch) to 0.43 mm (0.017 inch)
- Quiet zone (area at each end of bar code) SHALL be a minimum of 6.3 mm (0.25 inch)
- Barcode SHALL meet a minimum ANSI quality grade of 'C'
- Specifications are not indicated here SHALL refer to AIAG B-3, B-4, B-10, B-14, B-8, QS9000 and ISO standards



Label Requirements

Container Load Label

**Pizza Box Label**

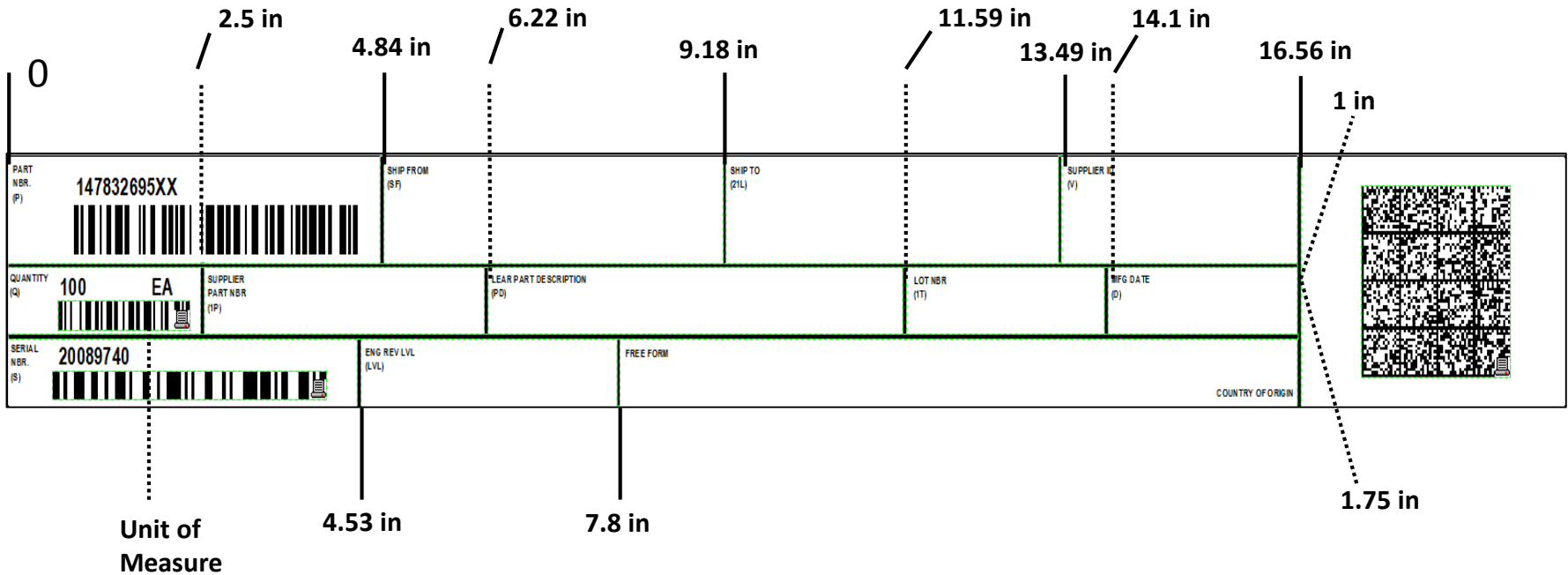
Master Load Label

Mixed Load Label

Additional Requirements Summary

# Pizza Box Label Measurements

Label Dimensions: 2.5 x 20 in



# Pizza Box Label Format & Data

**M** = Mandatory

**O** = Optional



**Block Title = Ship From**  
 Data Identifier = SF  
 Font size 6  
**Address 4 lines max**  
 Data = Ship from location  
**Text**  
 Font size 10

**M**

**Block Title = Ship To**  
 Data Identifier = 21L  
 Font size 6  
**Address 4 lines max**  
 Font size 10  
**Text**  
 Data Source = EDI(830/862)  
 Font size 28, 6 Character max

**M**

**Block Title = Supplier**  
 Data Identifier = V  
 Font size 6  
**Text**  
 Data = Lear Assigned Supplier Code  
 Font size 10  
**Barcode (Include quiet zones)**  
 Code 128  
 Height 0.25", Narrow bar width 2 dot, width 10 mil

**M**

**2D Barcode:** See slide 17 for code details

**M**

**Block Title = Lear Part Number**  
 Data Identifier = P  
 Font size 6  
**Text**  
 Font size 36  
**Barcode (Include quiet zones)**  
 Code 128  
 Height 0.449", Narrow bar width 7 dot, width 23 mil  
 Data = Lear Part Number  
 Data Source = EDI(830/862)

**M**



**Block Title = Description**  
 Data Identifier = PD  
 Font size 6  
**Text**  
 Data = Part description  
 Font size 12

**M**

**Block Title = Lot Number**  
 Data Identifier = 1T  
 Font size 6  
**Text**  
 Font size 18  
 Data = Lot Number

**O**

**Block Title = Quantity**  
 Data Identifier = Q  
 Font size 6  
**Barcode (Include quiet zones)**  
 Code 128  
 Height 0.29", Narrow bar width 3 dot, width, 15 mil  
 Data = Number of Units Shipped  
**Text**  
 Font size 36  
**UNIT OF MEASURE**  
 Font size 10

**M**

**Block Title = Serial**  
 Data Identifier = S  
 Font size 6  
**Barcode (Include quiet zones)**  
 Code 128  
 Height 0.33" Narrow bar width 3 dot, width 15 mil  
 Data = Container Serial Number  
**Text**  
 Font size 28

**M**

**Block Title = Supplier Part Number**  
 Data Identifier = 1P  
 Font size 6  
 Data = Supplier Part Number  
**Text**  
 Font size 14

**M**

**Block Title = MFG Date**  
 Font size 6  
 Data = Date of Manufacturing  
**Text**  
 Font size 14

**O**

**Block Title = Eng Rev Lvl**  
 Data Identifier = LVL  
 Font size 6  
 Data = Part engineering level  
**Text**  
 Font size 14

**O**

**Block Title = Free Form Area**  
 Font size 6  
 Data = Region or Supplier Other Information  
**Text**  
 Font size 14  
**COUNTRY OF ORIGIN**  
 Font size 10

**O**

## 2D Code Example Leather Pizza Box Label



[>RS06][V2510GT][PL0115365986733AA01][1P9874563210][ PDDSB  
GRAPHITE U502][Q30][S2030405060 ][1T101020202][ D10-30-2017][  
LVL03][SFEAGLE OTTAWA BERMUDAS PLANT REFORMA SUR #27  
BERMUDAS PARQUE IND CD JUAREZ, CHIH, C.P. 65709][21LLEAR  
MTO RIO BRAVO AVENIDA RIO BRAVO NO 1181 PARQUE IND RIO  
BRAVO CD JUAREZ, CHIH. C.P. 32550][7Q10RSEOT

# Data Identifiers and Sequence for Pizza Box Label



2D CODE DATA & SEQUENCE FOR LEATHER PIZZA BOX LABEL			
SEQUENCE	DATA CELL NAME	DESCRIPTION	DATA IDENTIFIER (DI)
1	SUPPLIER	CUSTOMER SUPPLIER CODE	V
2	PART NUMBER	CUSTOMER PART NUMBER	P
3	SUPPLIER PART NUMBER	SUPPLIER PART NUMBER	1P
4	DESCRIPTION	PART DESCRIPTION	PD
5	QUANTITY	QUANTITY PER CONTAINER/ROLL	Q
6	SERIAL NUMBER	CONTAINER/ROLL SERIAL NUMBER	S
7	LOT NUMBER	SUPPLIER LOT NUMBER (IF USED IN MANUFACTURING PROCESS)	1T
8	DATE	MANUFACTURING DATE	D
9	ENGINEERING REVISION	PART ENGINEERING LEVEL	LVL
10	SHIP FROM	SUPPLIER SHIPPING/PLANT ADDRESS	SF
11	SHIP TO	CUSTOMER SHIPPING/PLANT ADDRESS	21L

Label Requirements

Container Load Label

Pizza Box Label

**Master Load Label**

Mixed Load Label

Additional Requirements Summary

# Master Label Measurements



Label Dimensions: 4 x 6 in



# Master Label Format & Data

**M** = Mandatory  
**O** = Optional



**Block Title = Ship From**  
 Data Identifier = SF  
 Font size 6  
**Address 4 lines max**  
 Data = Ship from location  
**Text**  
 Font size 10

**M**

**Block Title = Ship To**  
 Data Identifier = 21L  
 Font size 6  
**Address 4 lines max**  
 Font size 10  
**Text**  
 Data Source = EDI(830/862)  
 Font size 28, 6 Character max

**M**

**2D Barcode: See slide 22 for code details**

**M**

**Block Title = Master Label**  
**Text**  
 Font size 22, inverse  
**COUNTRY OF ORIGIN**  
 Font size 10

**M**

**Block Title = Supplier**  
 Data Identifier = V  
 Font size 6  
**Text**  
 Data = Lear Assigned Supplier Code  
 Font size 18  
**Barcode (Include quiet zones)**  
 Code 128  
 Height 0.25", Narrow bar width 3 dot, width 15 mil

**M**

FROM (SF): SIERRA PLASTICS 99999 RIGHT WAY UBLY MI 48952	TO (21L): LEAR MTO RIO BRAVO 1500 DD82 AVENIDA RIO BRAVO NO 1181 PARQUE IND RIO BRAVO CD. JUAREZ, CHIH C.P. 32550	
183579		
DESCRIPTION (PD): DRIVER FRONT BACK K2XXXXX GREY LEATHER	SUPPLIER (V): 2509GT	
LEAR PART NUMBER (P): L1098765AA01		
<b>MASTER LABEL</b>		COUNTRY OF ORIGIN
PALLET QUANTITY (PQ): 5400	SERIAL (1J): 123123123	LOCATION (24L): Z53
(EA)	SUPPLIER PART NUMBER (1P): GS1559678	FREE FORM:

**Block Title = Lear Part Number**  
 Data Identifier = P  
 Font size 6  
**Text**  
 Font size 36  
**Barcode (Include quiet zones)**  
 Code 128  
 Height 0.755", Narrow bar width 7 dot, width 23 mil  
 Data = Lear Part Number  
 Data Source = EDI(830/862)

**M**

**Block Title = Description**  
 Data Identifier = PD  
 Font size 6  
**Text**  
 Data = Part description  
 Font size 12

**M**

**Block Title = Location**  
 Data Identifier = 24L  
 Font size 6  
 Data = Customer Storage Location  
 Data Source = EDI(830/862)  
**Text**  
 Font size 14

**O**

**Block Title = Pallet Quantity**  
 Data Identifier = PQ  
 Font size 6  
**Barcode (Include quiet zones)**  
 Code 128  
 Height 0.4", Narrow bar width 2 dot, width, 10 mil  
 Data = Number of Units Shipped  
**Text**  
 Font size 36  
**UNIT OF MEASURE**  
 Font size 10

**M**

**Block Title = Serial**  
 Data Identifier = 1J  
 Font size 6  
**Barcode (Include quiet zones)**  
 Code 128  
 Height 0.2", Narrow bar width 3 dot, width 15 mil  
 Data = Master Serial Number  
**Text**  
 Font size 14

**M**

**Block Title = Supplier Part Number**  
 Data Identifier = 1P  
 Font size 6  
 Data = Supplier Part Number  
**Text**  
 Font size 14

**M**

**Block Title = Free Form Area**  
 Font size 6  
 Data = Region or Supplier Specific Information  
**Text**  
 Font size 14  
 2 lines max

**O**



# 2D Code Example Master Label

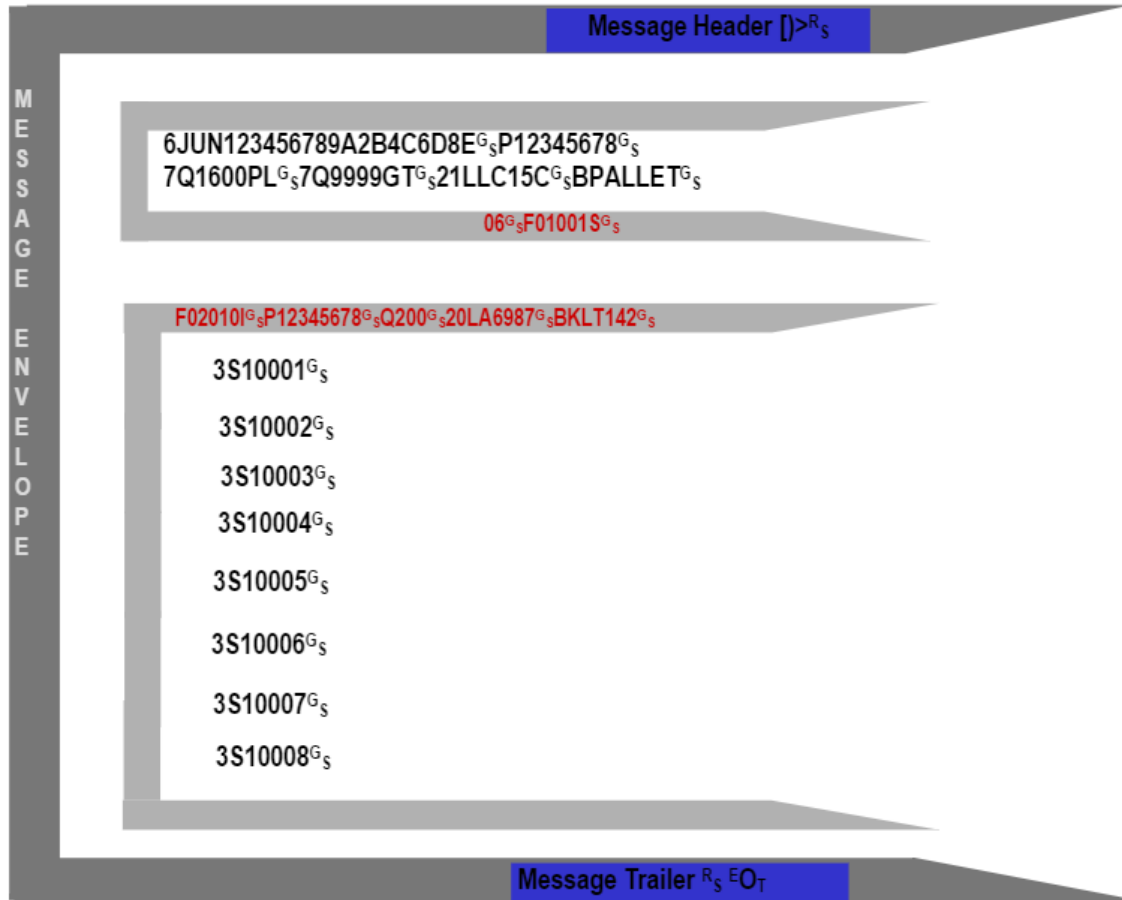


Some identifiers are different for Master Labels than Container Labels, such as Pallet Quantity (PQ) instead of Container Quantity (Q)

[>RS06][V2509GT][ PL1098765AA01][1PGS1559678][PDDRIVER  
FRONT BACK K2XXXXX GREY LEATHER][PQ5400][1J123123123][  
24LZ53][7R18][3S190871][3S190872][3S190873][3S190874][3S190875][3  
S190876][3S190877][3S190878][3S190879][3S190880][3S190881][3S190  
882][3S190883][3S190884][3S190885][3S190886][3S190887][3S190888][  
SFSIERRA PLASTICS 99999 RIGHT WAY UBLY MI 48952][21LLEAR  
MTO RIO BRAVO 1500 DD82 AVENIDA RIO BRAVO NO 1181 PARQUE  
IND RIO BRAVO CD. JUAREZ, CHIH. C.P. 32550][7Q10RSEOT]

In Master Labels, the 2D code will need to take into account individual container serial numbers and loop code explained on slide 26

# Use Looping Data Format for Master Label 2D Code to Reduce Number of Characters of Data



- A loop may be necessary to prevent the code from growing too large to fit in the allotted label space

# Data Identifiers and Sequence for Master Load Label



2D CODE DATA & SEQUENCE FOR MASTER LABEL			
SEQUENCE	DATA CELL NAME	DESCRIPTION	DATA IDENTIFIER (DI)
1	SUPPLIER	CUSTOMER SUPPLIER CODE	V
2	PART NUMBER	CUSTOMER PART NUMBER	P
3	SUPPLIER PART NUMBER	SUPPLIER PART NUMBER	1P
4	DESCRIPTION	PART DESCRIPTION	PD
5	QUANTITY	TOTAL PART QUANTITY	PQ
6	LICENSE PLATE NUMBER	MASTER LABEL SERIAL NUMBER	1J
7	LOCATION	CUSTOMER STORAGE LOCATION	24L
8	PALLET CONTAINER COUNT	NUMBER OF CONTAINERS ON PALLET	7R
9	CONTAINER SERIAL NUMBERS	INDIVIDUAL CONTAINER SERIAL NUMBERS (REPEAT)	3S
10	SHIP FROM	SUPPLIER SHIPPING/PLANT ADDRESS	SF
11	SHIP TO	CUSTOMER SHIPPING/PLANT ADDRESS	21L

Label Requirements

Container Load Label

Pizza Box Label

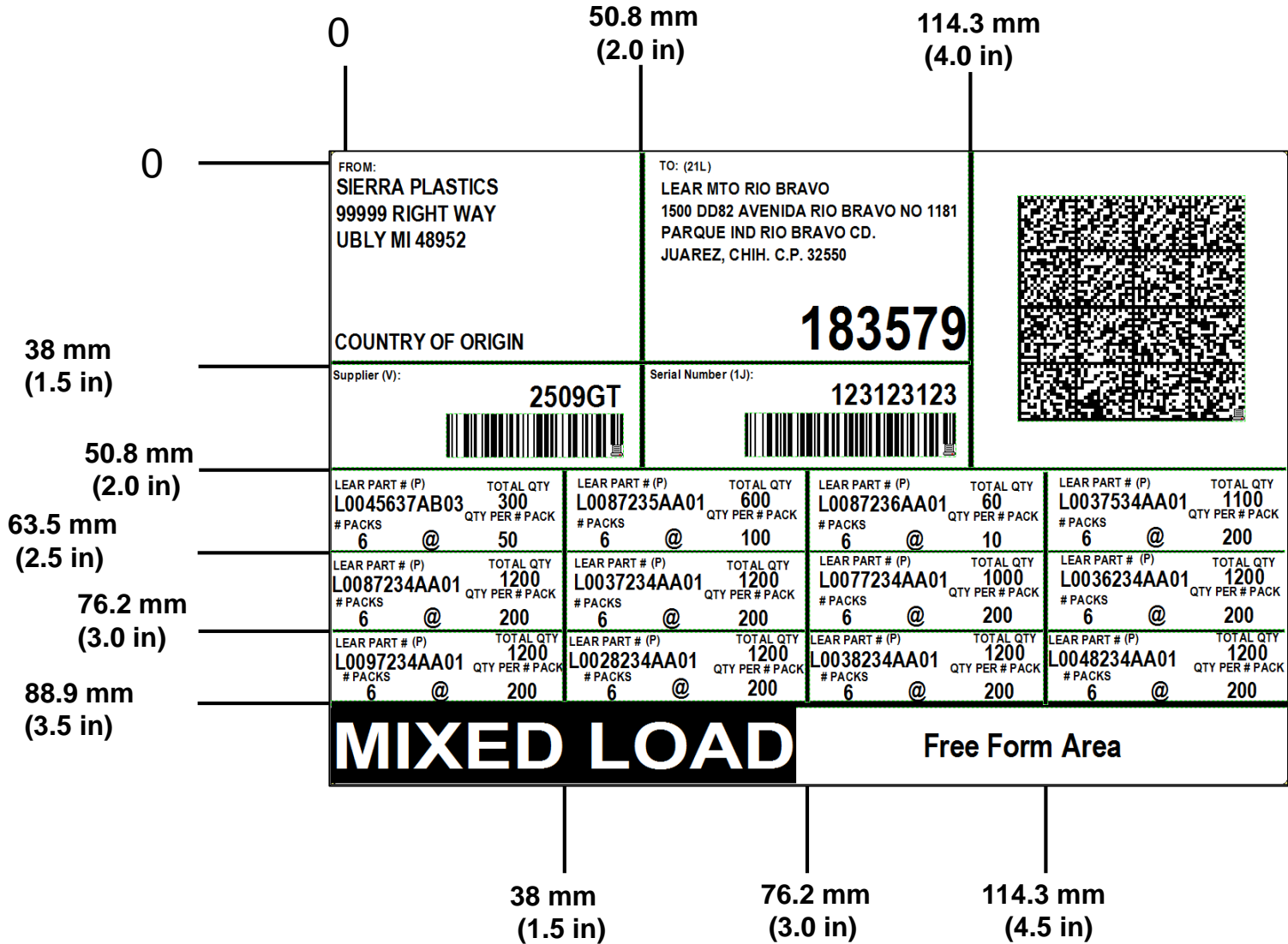
Master Load Label

**Mixed Load Label**

Additional Requirements Summary

# Mixed Load Label Measurements

Label Dimensions: 4 x 6 in



# Mixed Load Label Format & Data

**M**

Block Title = Ship From  
 Data Identifier = SF  
 Font size 6  
**Address 4 lines max**  
 Data = Ship from location  
**Text**  
 Font size 10  
**COUNTRY OF ORIGIN**  
 Font size 10

**M**

Block Title = Ship To  
 Data Identifier = 21L  
 Font size 6  
**Address 4 lines max**  
 Font size 10  
**Text**  
*Data Source = EDI(856) Segment N103 (ST)*  
 Font size 28, 5 Character max

**M**

2D Barcode: see slide 28 for code details

**M**

Block Title = Supplier  
 Data Identifier: V  
 Font size 6  
**Text**  
 Font size 14  
**Barcode (Include quiet zones)**  
 Code 128  
 Data = Lear Assigned Supplier Code

FROM: SIERRA PLASTICS 99999 RIGHT WAY UBL Y MI 48952		TO: (21L) LEAR MTO RIO BRAVO 1500 DD82 AVENIDA RIO BRAVO NO 1181 PARQUE IND RIO BRAVO CD. JUAREZ, CHIH. C.P. 32550	
COUNTRY OF ORIGIN		<b>183579</b>	
Supplier (V): 2509GT		Serial Number (1J): 123123123	



**M**

Block Title = Serial Number  
 Data Identifier = 3S  
 Font size 6  
**Text**  
 Font size 14  
**Barcode (Include quiet zones)**  
 Code 128

**M**

Block Title = Lear Part Number  
 Font size 6  
**Text**  
 Font size 10  
**Barcode (Include quiet zones)**  
 Code 128  
 Data = Lear Part #, Total QTY, # packs and QTY per pack  
*Data Source = EDI(856) Segment LIN03 (BP)*

LEAR PART # (P) L0045637AB03 # PACKS 6 @ 50	TOTAL QTY 300 QTY PER # PACK	LEAR PART # (P) L0087235AA01 # PACKS 6 @ 100	TOTAL QTY 600 QTY PER # PACK	LEAR PART # (P) L0087236AA01 # PACKS 6 @ 10	TOTAL QTY 60 QTY PER # PACK	LEAR PART # (P) L0037534AA01 # PACKS 6 @ 200	TOTAL QTY 1100 QTY PER # PACK
LEAR PART # (P) L0087234AA01 # PACKS 6 @ 200	TOTAL QTY 1200 QTY PER # PACK	LEAR PART # (P) L0037234AA01 # PACKS 6 @ 200	TOTAL QTY 1200 QTY PER # PACK	LEAR PART # (P) L0077234AA01 # PACKS 6 @ 200	TOTAL QTY 1000 QTY PER # PACK	LEAR PART # (P) L0036234AA01 # PACKS 6 @ 200	TOTAL QTY 1200 QTY PER # PACK
LEAR PART # (P) L0097234AA01 # PACKS 6 @ 200	TOTAL QTY 1200 QTY PER # PACK	LEAR PART # (P) L0028234AA01 # PACKS 6 @ 200	TOTAL QTY 1200 QTY PER # PACK	LEAR PART # (P) L0038234AA01 # PACKS 6 @ 200	TOTAL QTY 1200 QTY PER # PACK	LEAR PART # (P) L0048234AA01 # PACKS 6 @ 200	TOTAL QTY 1200 QTY PER # PACK

**MIXED LOAD**      Free Form Area

**M**

Block Title = Mixed Load Label  
**Text**  
 Font size 28, inverse

**O**

Block Title = Free Form Area  
 Font size 6  
 Data = Region or Supplier Specific Information  
**Text**  
 Font size 14  
**4 lines max**

## 2D Code Example – Mixed Load Label



Some identifiers are different for Mixed Labels than Container or Master Labels, such as

- Mixed Serial Number (1J)
- Number of Containers per Pallet (7R)
- Total Containers Per Part Number (7S)
- Individual Container Serial Numbers for Part (3S)

[>RS06][V2509GT][1J123123123][7R18][PL0045637AB03][PQ300][7S6][3S190871][3S190872][3S190873][3S190874][3S190875][3S190876][PL0087235AA01][PQ600][7S6][3S190877][3S190878][3S190879][3S190880][3S190881][3S190882][PL0087236AA01][PQ60][7S6][3S190883][3S190884][3S190885][3S190886][3S190887][3S190888][SFSIERRA PLASTICS 99999 RIGHT WAY UBLY MI 48952][21LLEAR MTO RIO BRAVO 1500 DD82 AVENIDA RIO BRAVO NO 1181 PARQUE IND RIO BRAVO CD. JUAREZ, CHIH. C.P. 32550 ][7Q10RSEOT

# Data Identifiers and Sequence for Mixed Load Label



2D CODE DATA & SEQUENCE FOR MIXED LOAD LABEL			
SEQUENCE	DATA CELL NAME	DESCRIPTION	DATA IDENTIFIER (DI)
1	SUPPLIER	CUSTOMER SUPPLIER CODE	V
2	LICENSE PLATE NUMBER	MIXED LABEL SERIAL NUMBER	1J
3	PALLET CONTAINER COUNT	NUMBER OF CONTAINERS ON PALLET	7R
4	PART NUMBER	CUSTOMER PART NUMBER	P
5	QUANTITY	TOTAL PART QUANTITY	PQ
6	PART NUMBER CONTAINERS	TOTAL CONTAINERS FOR PART NUMBER	7S
7	CONTAINER SERIAL NUMBERS	INDIVIDUAL CONTAINER SERIAL NUMBERS FOR PART (REPEAT)	3S
8	SHIP FROM	SUPPLIER SHIPPING/PLANT ADDRESS	SF
9	SHIP TO	CUSTOMER SHIPPING/PLANT ADDRESS	21L
		REPEAT SEQUENCE 4, 5, 6 FOR EACH PART	
		REPEAT SEQUENCE 7 FOR EACH PART SERIAL NUMBER	



Label Requirements

Container Load Label

Pizza Box Label

Master Load Label

Mixed Load Label

**Additional Requirements Summary**

# Lear 2D Code Label Specifications

EXPLANATION FOR EACH LABEL

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February 1, 2018

## 2D Code Labeling

### 1.0) Scope and Purpose:

This document defines how to use the 2D Code Label. For positioning on a container, roll or pallet, see the Lear website, [www.lear.com](http://www.lear.com) under Suppliers select Logistics Requirements for Suppliers and then Supplier Parts and Packaging Requirements. Also, see Logistics Requirements for Suppliers.

### 2.0) Responsibility:

It is the responsibility of a Lear supplier to adhere to the requirements listed in this document and Lear Corporate purchase order terms and conditions. If an inconsistency between this document and the purchase order terms and conditions exists, the purchase order terms and conditions shall supersede this document.

### 3.0) Definitions:

- 3.1) **2D Code** – A type of two-dimensional (2D) barcode representation of multiple data elements, that can be read with an image reader or a cell phone with a camera.
- 3.2) **1D Barcode** – An optical, machine-readable representation of data.
- 3.3) **Data Matrix** – Code consisting of black and white “cells” or modules arranged in either a square or rectangular pattern, also known as a matrix.
- 3.4) **AIAG** – Automotive Industry Action Group.
- 3.5) **Odette** – Pan European Collaboration and Services.
- 3.6) **Container Label** – A label that is attached to a shipping container returnable or expendable or a roll of material, that identifies the contents of the container or roll.
- 3.7) **Bundle Label** – A label that is attached to a bundle of material that may or may not reside within a shipping container; usually used in Bulk Shipments.
- 3.8) **Pizza Box Label** – A label that is attached to a shipping container that resembles a pizza box shape, and requires the 2D Code label to be attached to the narrow side of the box for accessibility.
- 3.9) **Master Label** – A label that is attached to a pallet of material, that is all the same part number.
- 3.10) **Mixed Load Label** – A label that is attached to a pallet of material, that contains multiple part numbers.
- 3.11) **Data Separator** – A character or characters used to divide data elements within the 2D Code.



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- 3.12) **Data Identifier** – A character or characters, that defines the data element immediately following the Data Identifier.
- 3.13) **Human Readable** – Characters that can be read by a human being.

### 4.0) Container Label:

The Container Label is a label that identifies the material within a container or contained within a roll. Every container within a shipment, must have a container label attached to it as specified by the Lear Supplier Parts and Packaging Requirements. The following data elements are contained within the 2D Code and or the label itself as Human Readable Characters. **All data cell titles and data identifiers as shown in the 2D Barcode Global Guidelines are to be followed.**

- 4.1) **Supplier** – Lear defined supplier code – 2D Code and Human Readable
- 4.2) **Part Number** – Lear defined part number – 2D Code and Human Readable
- 4.3) **Supplier Part Number** – Supplier part number if used – 2D Code and Human Readable
- 4.4) **Description** – Lear defined part description – 2D Code and Human Readable
- 4.5) **Quantity** – Quantity of material contained within the container or roll – 2D Code and Human Readable
- 4.6) **Unit of Measure (UOM)** – Unit of Measure as it appears in the Lear Purchase Order – Human Readable
- 4.7) **Serial Number** – A unique number or alpha numeric identifier that never repeats – 2D Code and Human Readable
- 4.8) **Lot Number** if used in a supplier's manufacturing process – 2D Code and Human Readable
- 4.9) **Location** – Lear Plant defined storage location; can appear in electronic communications such as schedule releases – 2D Code and Human Readable
- 4.10) **Ship From** – Suppliers address for the supplier shipping location – 2D Code and Human Readable
- 4.11) **Ship To** – Lear Plant address that the shipment is destined; can appear in an electronically transmitted schedule – 2D Code and Human Readable
- 4.12) **Free Form** – Any additional data that the supplier or Lear plant deems necessary to help identify the material – Human Readable

### 5.0) Bundle Label:

The Label that is attached to bundles of material, that may or may not be shipped inside a shipping container. Used mainly in bulk shipments. Format and data elements are identical to the Container Label with one exception.

- 5.1) **Serial Number** – The serial number on a bundle label must have a relationship with the Container Label so it is easily connected to the correct

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Container Label. Example: Container Serial Number = 123456 - Bundle Serial Numbers = 123456A - 123456B - etc.

## 6.0) Pizza Box Label:

The Pizza Box Label is a label used on containers that are similar to the pizza box shape, with a narrow side where the label needs to be positioned for visibility and access. This type of container can be used for shipments such as the leather die cut sets. The following data elements are contained within the 2D Code and or the label itself as Human Readable Characters. **All data cell titles and data identifiers as shown in the 2D Barcode Global Guidelines are to be followed.**

- 6.1) **Supplier** – Lear defined supplier code – 2D Code and Human Readable
- 6.2) **Part Number** – Lear defined part number – 2D Code and Human Readable
- 6.3) **Supplier Part Number** – Supplier part number if used – 2D Code and Human Readable
- 6.4) **Description** – Lear defined part description – 2D Code and Human Readable
- 6.5) **Quantity** – Quantity of material contained within the container or roll – 2D Code and Human Readable
- 6.6) **Unit of Measure (UOM)** – Unit of Measure as it appears in the Lear Purchase Order – Human Readable
- 6.7) **Serial Number** – A unique number or alpha numeric identifier that never repeats – 2D Code and Human Readable
- 6.8) **Lot Number** if used in a supplier’s manufacturing process – 2D Code and Human Readable
- 6.9) **Date** – Date the part was manufactured – two data formats available based upon Lear plant discretion, US Format “MM/DD/YYYY” and European Format “DD/MM/YYYY” – 2D Code and Human Readable
- 6.10) **Engineering Revision** – Engineering change revision/level for the material inside the container
- 6.11) **Ship From** – Suppliers address for the supplier shipping location – 2D Code and Human Readable
- 6.12) **Ship To** – Lear Plant address that the shipment is destined; can appear in an electronically transmitted schedule – 2D Code and Human Readable
- 6.13) **Free Form** – Any additional data that the supplier or Lear plant deems necessary to help identify the material – Human Readable

## 7.0) Master Label:

The Master Label is a label attached to the pallet, that identifies the containers within or on the pallet, all containers holding the same part number with container labels

attached to each. For some data elements within the Master Label, there are unique Data Identifiers used. The data identifiers are to define the difference between data on the Master Label and similar data contained on a Container Label that is on the pallet. A maximum of 18 different containers with the same part number can be contained in a Master Label. The reason for this restriction is because the amount of data put into a 2D Code, makes the code larger as data content increases. Elements such as part number digits, serial number digits, and address digits, all impact size of the 2D code. If the data used is small in digit length, there may be an opportunity to have additional containers included in the label, but, the 2D Code must fit within the space provided on the label for the 2D Code. If data elements have a high number of digits, less than 18 containers of the same part number may only fit into the 2D Code. The following data elements are contained within the 2D Code and or the label itself as Human Readable Characters. **All data cell titles and data identifiers as shown in the 2D Barcode Global Guidelines are to be followed.**

- 7.1) **Supplier** – Lear defined supplier code – 2D Code and Human Readable
- 7.2) **Part Number** – Lear defined part number – 2D Code and Human Readable
- 7.3) **Supplier Part Number** – Supplier part number if used – 2D Code and Human Readable
- 7.4) **Description** – Lear defined part description – 2D Code and Human Readable
- 7.5) **Quantity** – Quantity of material contained within the container or roll – 2D Code and Human Readable
- 7.6) **Unit of Measure (UOM)** – Unit of Measure as it appears in the Lear Purchase Order – Human Readable
- 7.7) **License Plate Number** – A unique number or alpha numeric identifier that never repeats – 2D Code and Human Readable
- 7.8) **Location** – Lear Plant defined storage location; can appear in electronic communications such as schedule releases – 2D Code and Human Readable
- 7.9) **Pallet Container Count** – The number of the containers on the pallet with the same part number – 2D Code
- 7.10) **Container Serial Numbers** – All container label serial numbers contained on the pallet for the same part number – 2D Code
- 7.11) **Ship From** – Suppliers address for the supplier shipping location – 2D Code and Human Readable
- 7.12) **Ship To** – Lear Plant address that the shipment is destined; can appear in an electronically transmitted schedule – 2D Code and Human Readable
- 7.13) **Free Form** – Any additional data that the supplier or Lear plant deems necessary to help identify the material – Human Readable

#### 8.0) **Mixed Load Label:**

Mixed Load label is a label that identifies pallets that contain more than one part number. For some data elements within the Mixed Load Label, there are unique

Data Identifiers used. The data identifiers are to define the difference between data on the Mixed Load Label and similar data contained on a Container Label that is on the pallet. A maximum of 12 different part numbers can be contained in a Mixed Load Label. The reason for this restriction is because the amount of data put into a 2D Code, makes the code larger as data content increases. Elements such as part number digits, serial number digits, and address digits, all impact size of the 2D code. A maximum of 32 different part number, serial number combinations can be used in the 2D Code. The following data elements are contained within the 2D Code and or the label itself as Human Readable Characters. **All data cell titles and data identifiers as shown in the 2D Barcode Global Guidelines are to be followed.**

- 8.1) **Supplier** – Lear defined supplier code – 2D Code and Human Readable
- 8.2) **License Plate Number** – A unique number or alpha numeric identifier that never repeats – 2D Code and Human Readable
- 8.3) **Pallet Container Count** – The number of the containers on the pallet.
- 8.4) **Part Number** – Lear defined part number – 2D Code and Human Readable
- 8.5) **Quantity** – Quantity of material contained within the container or roll – 2D Code and Human Readable
- 8.6) **Part Number Container** – The number of the containers on the pallet with the same part number – 2D Code and Human Readable
- 8.7) **Container Serial Numbers** – All container label serial numbers contained on the pallet for the same part number – 2D Code
- 8.8) **Ship From** – Suppliers address for the supplier shipping location – 2D Code and Human Readable
- 8.9) **Ship To** – Lear Plant address that the shipment is destined; can appear in an electronically transmitted schedule – 2D Code and Human Readable
- 8.10) **Free Form** – Any additional data that the supplier or Lear plant deems necessary to help identify the material – Human Readable

## 9.0) Additional Information:

- 9.1) **Label Size** – AIAG or Odette label dimensions are acceptable for the Container, Bundle, Master and Mixed Load labels. Pizza Box label dimensions must be followed as in the 2D Barcode Global Guidelines Container – Bundle – Pizza Box – Master – Mixed Load Labels (2D Barcode Global Guidelines)
- 9.2) **2D Code Data** – Only the data listed in the 2D Barcode Global Guidelines is to be contained in the 2D Code
- 9.3) **2D Code Data Sequence** – Data is to appear in the 2D Code as listed in the 2D Barcode Global Guidelines
- 9.4) **Data Placeholders** – No placeholders are to be used within the 2D Code; if there is no data for that data element nothing appears in the 2D Code





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- 9.5) **Data Separator** – The Data Separator contained within the 2D Code are bracket characters facing away from each other `]]` and this is a Lear symbol for separating data elements
- 9.6) **Data Identifiers** – Data Identifiers listed in the 2D Barcode Global Guidelines is to be used
- 9.7) **Language:** Language used on the labels is controlled by the Lear facility. Any translations must represent what is listed in English.