Ford

Package Material Specifications   Page 1 of 4   Service Parts Unit Package
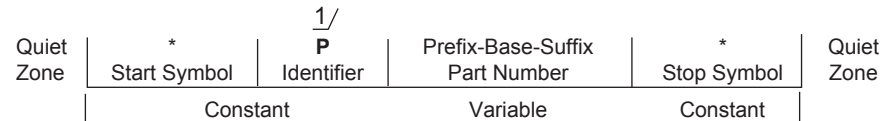AIAG Bar Code 39, B-1 and B-4   No. _____ L1569

SCOPE:

This packaging instruction describes and establishes Automotive Industry Action Group (AIAG) Bar Code 39 B-1 and B-4 scannable linear bar code symbol techniques that the Ford Customer Service Division requires on service parts unit identification. The bar code symbol should be incorporated into the existing part nomenclature label whenever possible, or as a separate label applied to the unit container or as an integral part of the package graphics on selected part commodities. Labels may be purchased preprinted or plain for use on automatic printing equipment. Purchaser must specify any special requirements (roll, fan-fold, layout, spacing, etc.). All AIAG Code 39 B-1 and B-4 bar code symbols must be machine scannable and in accordance with the latest edition Bar Code 39 B-1 and B-4 specifications published by:

Automotive Industry Action Group (AIAG), 26200 Lasher Road, Suite 200, Southfield, Michigan 48034, Phone: 248-358-3570, Fax: 248-358-3253

DESCRIPTION:

The linear bar code symbol consists of alphanumeric encodation of the Ford service part number in the form of a series of parallel light and dark bars of different widths.
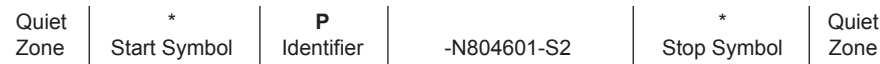
ENCODATION AND FORMAT FORD SERVICE PART FOR NUMBERS *UNIT PACKAGING*:

Human Readable Interpretation (HRI) is not due to space restrictions. The service part number nomenclature identification will serve the purpose for the HRI on unit packages Symbology must comply with publication AIAG B-1 and B-4. Leading and trailing quiet zone 1/4″ minimum space. Start and stop symbols represented by an asterisk (*). The letter **"P"** is the data identifier assigned to indicate a part number is encoded. Dashes separating part number prefix-base-suffix must be encoded.

1/

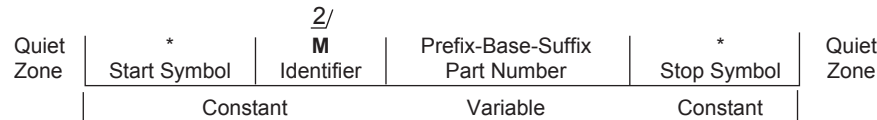| Quiet Zone	* Start Symbol	**P** Identifier	Prefix-Base-Suffix Part Number	* Stop Symbol	Quiet Zone
	Constant		Variable	Constant	

No Spaces

Part numbers without prefixes, such as standard parts (nuts, bolts), etc., must encode a dash in the lead prefix-base position. This enables our scanning system to properly format the part number. The bar code symbol shall be displayed in a single line and does not incorporate any spaces. An example of a standard part number N804601-S2 follows:

Quiet Zone	* Start Symbol	**P** Identifier	-N804601-S2	* Stop Symbol	Quiet Zone

No Spaces

ENCODATION AND FORMAT FORD SERVICE PART FOR NUMBERS *MASTERPACK*:

Human Readable Interpretation (HRI) is not due to space restrictions. The service part number nomenclature identification will serve the purpose for the HRI on unit packages Symbology must comply with publication AIAG B-1 and B-4. Leading and trailing quiet zone 1/4″ minimum space. Start and stop symbols represented by an asterisk (*). The letter **"M"** is the data identifier assigned to indicate a part number is encoded. Dashes separating part number prefix-base-suffix must be encoded.
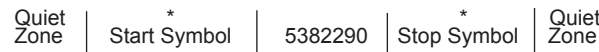
2/

Quiet Zone	* Start Symbol	**M** Identifier	Prefix-Base-Suffix Part Number	* Stop Symbol	Quiet Zone
	Constant		Variable	Constant	

No Spaces

ENCODATION AND FORMAT FOR *FINIS NUMBER*:

Construction of the bar code for the European FINIS part number is exactly the same as the Ford Service part number explained above with the following exceptions:
• DO NOT print the "P" or "M" identifier 1/ 2/
• FINIS numbers are always 7 digits and do not have a prefix-base-suffix and therefore no dashes are included in the bar code
• Example of the FINIS part bar code:

Quiet Zone	* Start Symbol	5382290	* Stop Symbol	Quiet Zone

No Spaces

FORD MOTOR COMPANY, PACKAGING ENGINEERING, FORD CUSTOMER SERVICE DIVISION, 28301 SCHOOLCRAFT ROAD, BUILDING 300, LIVONIA, MI 48150

Designed	Approved	Date	Revised
JS	T.A. Kasper	12-15-16	3-17-20

Ford

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AIAG Bar Code 39, B-1 and B-4   No. _____ L1569

| DIMENSIONS AND DENSITY: | The minimum bar height for **service part number barcodes** shall be 0.25". The average width of bar code narrow elements shall be within the range of .0050″ to .0100″ (+6% -0%). The ratio of the average width of the wide elements to the average width of the narrow elements shall be either 3:1 with a measured ratio between 2.8:1 and 3.2:1, or 2:1 with a measured ration between 1.8:1 and 2.2:1. The widths of the various elements and the ratio shall not change within the same symbol. |

FINIS number barcode height shall be 1/8".

To meet space limitations on some packaging materials, due to varying service part number lengths, within the above ranges the following options should be followed when choosing the bar code dimensions and density:

Bar Code Options	Width of bar code narrow elements	Width ratio of wide to narrow elements	Bar code density examples of an 18 character (maximum size) part number with dashes, including the "P" identifier and the start and stop symbols are shown below for part number XW135-400034BD-KKYDR
Option 1: This option **must** be used whenever space permits, and must always be used on any imprinted poly bags because the flexible nature of that packaging material prohibits a good scan if either options 2 or 3 are used. However, labeled bags may use options 2 or 3 provided there is not enough space on the label to fit option 1. **Non-compliance with this requirement will result in the issuance of Quality Control rejects.**	.0100	3:1	(Actual sizes shown) **Service Part Number** **FINIS Number**
Option 2: Use this option only when limited space prevents use of Option 1.	.0100	2:1	(Actual size shown)
Option 3: Use this option only when limited space prevents use of Option 2.	.0050	3:1	(Actual size shown)

| REFLECTIVITY AND CONTRAST: | The printed bar code symbols must meet the reflectivity and contrast requirements specified in AIAG-B-1 and B-4, at all electromagnetic wave lengths from B633 (±5%) to B900 (±10%) nanometers. |

| QUALITY ASSURANCE REQUIREMENTS: | **It is the responsibility of the service parts packager to assure:**
• The correct data is encoded and verified.
• The bar code labels meet all requirements of this specification.
• The bar code symbol can be readily and correctly scanned and verified even after prolonged storage. |

| APPLICATION: | Refer to Material Specification PRINT for bar code placement. Refer to pages 3 and 4 for bar code sizing requirements. |

3-17-20   (OVB)   Added FINIS number barcode height requirement.
11-16-18   (OVB)   Added Masterpack endcodation and formatting.
9-14-18   (OVB)   Removed the word "NEW" from material specs that are refrenced in table. Remove prior material numbers from table on pages 3 and 4.
6-28-17   (OVB)   Added endocation for FINIS part number on page 1.
12-15-16   (OVB)   Obsoleted FSB0013U and FSB0021U cartons.

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New Material #	New Container Label #	Label Application	3:1 (prefix-base-suffix) Character qty. includes dashes	2:1 (prefix-base-suffix) Character qty. includes dashes	3:1 (0.005) (prefix-base-suffix) Character qty. includes dashes	Barcode Height
FSB0001U	LSJ0002	Wrap around	1-10	11-12	13-20	0.25"
FSB0002U	LSJ0005	Wrap around	Always	Never	Never	0.25"
FSB0003U	LSJ0003	Wrap around	1-10	11-13	14-20	0.25"
FSB0004U	LSJ0002	Wrap around	1-7	8-9	10-20	0.25"
FSB0005U	LSJ0002	Wrap around	1-12	13-19	20	0.25"
FSB0006U	LSJ0004	Wrap around	1-12	13-19	20	0.25"
FSB0008U	LSJ0006	Wrap around	Always	Never	Never	0.25"
FSB0009U	LSJ0004	Wrap around	1-12	13-19	20	0.25"
FSB0010U	LSJ0004	Wrap around	1-12	13-19	20	0.25"
FSB0011U	LSJ0004	Wrap around	1-12	13-19	20	0.25"
FSB0012U	LSJ0004	Wrap around	1-19	20	Never	0.25"
FSB0014U	LSJ0004	Wrap around	1-8	9-10	11-20	0.25"
FSB0015U	LSJ0006	Wrap around	Always	Never	Never	0.25"
FSB0016U	LSJ0006	Wrap around	Always	Never	Never	0.25"
FSB0017U	LSJ0005	Wrap around	1-16	17-20	Never	0.25"
FSB0018U	LSJ0005	Wrap around	1-13	14-17	18-20	0.25"
FSB0019U	LSJ0001	End Flap	1-12	13-16	17-20	0.25"
FSB0020U	LSJ0001	End Flap	1-12	13-16	17-20	0.25"
FSB0022U	LSJ0005	Wrap around	1-12	13-16	17-20	0.25"
FSB0023U	LSJ0001	End Flap	1-12	13-16	17-20	0.25"
FSB0024U	LSJ0002	End Flap	1-16	17-20	Never	0.25"
FSB0025U	LSJ0005	Wrap around	1-11	12-14	15-20	0.25"
FSB0027U	LSJ0001	End Flap	1-12	13-16	17-20	0.25"
FSB0028U	LSJ0002	End Flap	1-16	17-20	Never	0.25"
FSB0029U	LSJ0002	Wrap around	1-12	13-16	17-20	0.25"
FSB0031U	LSJ0004	End Flap	1-19	20	Never	0.25"
FSB0032U	LSJ0004	End Flap	1-19	20	Never	0.25"
—	LSJ0009	Various	1-12	13-19	20	0.25"
—	LSJ0010	Various	1-12	13-19	20	0.25"
—	LSJ0011	Various	1-12	13-19	20	0.25"

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New Material #	New Container Label #	Prior Container Label #	Label Application	3:1 (prefix-base-suffix) Character qty. includes dashes	2:1 (prefix-base-suffix) Character qty. includes dashes	3:1 (0.005) (prefix-base-suffix) Character qty. includes dashes	Barcode Height
LSB0001U	NA	NA	NA	1-19	20	Never	0.25"
—	NA	NA	NA	1-15	16-20	Never	0.25"
—	NA	NA	NA	Always	Never	Never	0.25"
—	NA	NA	NA	Always	Never	Never	0.25"
—	NA	NA	NA	Always	Never	Never	0.25"
—	NA	NA	NA	Always	Never	Never	0.25"
—	Various	Various	Wrap Around	1-12	13-19	20	0.25"
LSB0002U	NA	NA	NA	1-19	20	Never	0.25"
LSB0003U	NA	NA	NA	1-19	20	Never	0.25"
LSB0004U	NA	NA	NA	1-19	20	Never	0.25"
LSB0005U	NA	NA	NA	1-19	20	Never	0.25"
LSB0006U	NA	NA	NA	1-19	20	Never	0.25"
BSB0001U	NA	NA	NA	1-16	17-20	Never	0.25"
BSB0002U	NA	NA	NA	Always	Never	Never	0.25"
BSB0003U	NA	NA	NA	1-16	17-20	Never	0.25"
BSB0004U	NA	NA	NA	Always	Never	Never	0.25"
BSB0005U	NA	NA	NA	Always	Never	Never	0.25"
BSB0006U	NA	NA	NA	Always	Never	Never	0.25"
BSB0007U	NA	NA	NA	Always	Never	Never	0.25"
BSB0008U	NA	NA	NA	Always	Never	Never	0.25"
BSB0009U	NA	NA	NA	Always	Never	Never	0.25"
BSB0010U	NA	NA	NA	Always	Never	Never	0.25"
BSB0001U	LSJ0002	L2	Front	1-16	17-20	Never	0.25"
BSB0002U	LSJ0002	L2	Front	1-16	17-20	Never	0.25"
BSB0003U	LSJ0002	L2	Front	1-16	17-20	Never	0.25"
BSB0004U	LSJ0004	L4	Front	1-19	20	Never	0.25"
BSB0005U	LSJ0004	L4	Front	1-19	20	Never	0.25"
BSB0006U	LSJ0004	L4	Front	1-19	20	Never	0.25"
BSB0007U	LSJ0004	L4	Front	1-19	20	Never	0.25"
BSB0008U	LSJ0004	L4	Front	1-19	20	Never	0.25"
BSB0009U	LSJ0004	L4	Front	1-19	20	Never	0.25"
BSB0010U	LSJ0004	L4	Front	1-19	20	Never	0.25"

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