**Flxible**

The Flxible Corporation

ORIGINAL

January 6, 1986

01-22-N11B-2216

Administrator
National Highway Traffic Safety Administration
400 Seventh Street, S.W.
Washington, D.C.   20590

ATTN: VIN COORDINATOR
REF:   49CFR571.115 VEHICLE IDENTIFICATION NUMBER

Dear Sir;

The Flxible Corporation has added an additional engine code to the seventh character of our seventeen character VIN number as shown below:

> Added code "D" Detroit Diesel 6V-92TA, 6 cylinders, 552 cubic in., 294 bhp at 2100 rpm, 49 State Federal Engine, electronically controlled engine (DDEC).
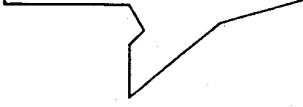
If you have any questions, please call.

Sincerely,

James R. Mitzenberg

THE FLXIBLE CORPORATION
James R. Mitzenberg,
Product Safety Engineer

CC:  J. Bolton
     L. Musser
     L. Watt

JM/ck

| PREPARED BY | | |
|---|---|---|
| C. Sidner *col.* | *2/28/80* | |

**APPROVALS**

| | |
|---|---|
| *[signature]* | *2/28/0* |
| *[signature]* | *3/7/80* |
| *[signature]* | *3.7.80* |
| | |

**GRUMMAN FLXIBLE** DELAWARE, OHIO 43015

# SPECIFICATION

**NUMBER** 95-0010

**TITLE**
VEHICLE IDENTIFICATION NUMBER
(VIN) CODES

**TYPE** Product

**DATE** 2/20/80

**PAGE** 1 of 8

## REVISIONS

| REV | | DATE | BY | APPR |
|---|---|---|---|---|
| A | Added Code "E" to Section 3.2.2.3 – Added Codes "6", "7" & "8" to Section 3.2.2.4   PCR 02693-400 | 6/3/81 | RDF | 6/15 |
| B | Section 3.2.2.1 Added Code "5" Per PCR 04875-400 | 11-8-82 | TRM | *[signature]* 11/8 |
| C | Section 3.2.2.3 Added Code "F" & "G"  Per PCR 05096-400 | 1-31-83 | D.P. | |
| D | Sections 1.0, 3.2.1.2, 3.2.4.2 – Changed Grumman Flxible Corp to The Flxible Corporation – Per PCR 5663-400 | 10-7-83 | DP? | |
| E | Section 3.2.2.4 – Added Code "9" – Per PCR 05984-*400* | 12/22/83 | | *GEF 122383* |
| F | Section 3.2.2.2 – Added Code "E" Section 3.2.2.3 – Added Code "H" per PCR 05823-220 | 9/25/84 | | *GEF 92584* |
| G | Section 3.2.2.4 – Added Code "A" per PCR 06603-400 | 9/5/84 | *[signature]* | *GEF 90584* |
| H | Section 3.2.2.3 – Added Code  "J" per PCR 6722-200 | 3/27/85 | *[signature]* | *GEF 32785* |
| J | Section 3.2.2.3 – Code "J" was two (2) now one (1) per PCR 06757-400 | 5/6/85 | *[signature]* | *GEF 50685* |
| K | Section 3.2.2.4 – Added Code "B" and page 6 per PCR 6697-220 | 6/17/85 | *[signature]* | |
| L | Section 3.2.2.4 – Added Code "C" Per PCR 6818-331 | 9/26/85 | *[signature]* | *9/26/85 [signature]* |
| M | Section 3.2.2.4 – Added Code "D" Per PCR 6950-220 | 12/13/85 | *[signature]* | *12/13/85 GEF 121685* |

1.0    SCOPE

This specification describes and establishes the codes that shall be used by The Flxible Corporation for the seventeen (17) characters of the vehicle Identification Number (VIN).

2.0    APPLICABLE DOCUMENTS

2.1    Federal Motor Vehicle Safety Standard (FMVSS) #115 as amended March 22, 1979.

2.2    Federal Regulation 49CFR567, Certification Regulation of NHTSA.

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3.0      REQUIREMENTS

3.1      <u>General</u>

The VIN shall be structured in accordance with FMVSS #115. It shall be a seventeen character display which is composed of three (3) sections and a check digit as follows:

(a)   Section I - Maker Identifier
This section includes the first three (3) characters (first through the third digit).

(b)   Section II - Vehicle Attributes
This section relates to the next five characters (fourth through the eighth digits).

(c)   Check Digit
This is a single character (the ninth digit).

(d)   Section III - Vehicle Identifier
This section is composed of eight characters (tenth through the seventeenth digits).

3.2      <u>Codes</u>

The following codes shall be used as applicable for the listed digits. For each digit a description is given and the applicable codes are defined.

3.2.1    Section I

These codes are approved by the federal government and no change may be made without prior approval by the government.

3.2.1.1  First Character:

      Country            – The country in which manufacture occurs.

      Code: "1"         – United States

3.2.1.2  Second Character:

      Manufacturer     – The entity responsible for affixing the vehicle certification label required by 49CFR567.

      Code: "G"         – The Flxible Corporation
                          970 Pittsburgh Drive
                          Delaware, Ohio 43015
                          (614) 369-7671

3.2.1.3  Third Character

      Make and Type    – A name which a manufacturer applies to a group of vehicles distinguished by common traits, including design and purpose.

      Code: "F"         – Flxible transit coaches (bus).

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3.2.2     Section II

These codes are established by the manufacturer, but must be submitted to the federal government for information sixty (60) days prior to usage.

3.2.2.1     Fourth Character:

Line        — A name which is applied to a family of vehicles within a make which have a degree of commonality in construction such as body, chassis or cab type.

Code: "4"     — Advance Design Transit Coach manufactured to the UMTA Baseline Specification; GFC Model 870.

Code: "5"     — Advance Design Transit; METRO $^{TM}$

3.2.2.2     Fifth Character:

Series     — A noun applied to a subdivision of a "line" denoting price, size or weight identification and which is utilized by the manufacturer for marketing purposes.

Codes: "A"    — 40 x 102 (40 feet long, 102 inches wide)
        "B"    — 40 x 96 (40 feet long, 96 inches wide)
        "C"    — 35 x 102 (35 feet long, 102 inches wide)
        "D"    — 35 x 96 (35 feet long, 96 inches wide)
        "E"    — 30 x 96 (30 feet long, 96 inches wide)

Notes:     (1)    The above lengths and widths are nominal overall body dimensions exclusive of exterior mirrors, side marker and signal lamps, flexible portions of bumpers, rubrails, and flexible fender skirts.

                 (2)    The code is not related to number of passengers as this is an option of the customer within any of the above given sizes and is not used within Flxible to denote series.

3.2.2.3   Sixth Character:

Body Type — The general configuration or shape of a vehicle distinguished by such characteristics as the number of doors or windows, cargo - carrying features and roof lines.

Code: "A" — City transit coach 2 doors, automatic environmental control, transverse and longitudinal seating.

Code: "B" — City transit coach 2 door, automatic environmental control, wheelchair occupant space, wheelchair lift equipped, transverse & longitudinal seating.

Code: "C" — City transit coach 2 door, automatic environmental control, wheelchair lift equipped, two (2) wheelchair occupant spaces, transverse and longitudinal seating.

Code: "D" — City transit coach 2 door, automatic environmental control, perimeter seating.

Code: "E" — City transit coach, 2 door, no air conditioner, wheelchair occupant space, wheelchair equipped, transverse and longitudinal seating.

Code: "F" — City transit coach 2 door, manual air conditioner transverse and longitudinal seating.

Code: "G" — City transit coach 2 door, no A/C transverse and longitudinal seating.

Code: "H" — City transit coach 1 door, automatic environmental control, wheelchair occupant space, wheelchair lift equipped, transverse and longitudinal seating.

Code: "J" — City transit coach 1 door, automatic environmental control, one (1) wheelchair occupant spaces, transverse and longitudinal seating.

3.2.2.4   Seventh Character:

Engine Type — Identifies the power source with specifically defined characteristics such as fuel utilized, number of cylinders, displacement, manufacturer and horsepower.

Code: "1" — Detroit Diesel 8V-71, 8 cylinders, 568 cubic inch, 262 bhp at 2100 rpm.

Code: "2" — Detroit Diesel 6V-71, 6 cylinders, 426 cubic inch, 183 bhp at 2100 rpm.

Code: "3" — Detroit Diesel 8V-71 TAE, 8 cylinders, 568 cubic inch, 262 bhp at 2100 rpm. (TAE indicates turbocharged aftercooled emissions) meets California EPA requirements.

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3.2.2.4   Seventh Character: (Continued)

Code: "4"          – Cummins Diesel VTB-903, 8 cylinders, 903 cubic inch, 275 bhp at 2100 rpm.  (Turbocharged) meets current California EPA requirements.

Code: "5"          – Detroit Diesel 6V-92 TAC, 6 cylinders, 552 cubic inch, 224 bhp at 2100 RPM TAC indicates turbo charged, after cooled meets current California EPA requirements.

Code: "6"          – Detroit Diesel 6V-92TA, 6 cylinders, 552 cubic inches, 294 bhp at 2100 rpm, 49 State Federal engine.

Code: "7"          – Detroit Diesel 6V-71TA, 6 cylinders, 426 cubic in., 225 bhp at 2100 rpm, 49 State Federal engine.

Code: "8"          – Detroit Diesel 6V-92TAC, 6 cylinders, 552 cubic in., 260 bhp at 2100 rpm, 1980 California engine.

Code: "9"          – Detroit Diesel 6V-92TAC, 6 cylinder 552 cubic in., 260 bhp at 2100 rpm, 1984 California engine.

Code: "A"          – Detroit Diesel 6V-92TA, 6 cylinders, 552 cubic in., 294 bhp at 2100 rpm, 49 State Federal engine, 1985 Federal certification.

Code: "B"          – Detroit Diesel 6V-92TAC, 6 cylinder 552 cubic in., 260 bhp at 2100 rpm, 1985 California engine.

Code "C"          – Cummins Engine Co. LTA10-B240, 6 cylingers, 10 liters (611 cubic inch) displacement, 240 BHP at 2100 RPM, meets California EPA requirements.

Code: D          – Detroit Diesel 6V-92TA, 6 cylinders, 552 cubic in., 294 bhp at 2100 rpm, 49 State Federal engine, electronically controlled engine (DDEC).

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3.2.2.5   Eighth Character:

Brake System — Identifies braking system with specifically de-
fined characteristic such as method of force
application (i.e., air, hydraulic, electric, etc.),
disc or drum type, anti-lock installation and
type of park brake.

Code: "K" — Compressed air, drum type, no anti-lock devices
installed, rear axle spring parking brake.

Code: "L" — Compressed air, drum type, anti-lock device
installed in rear axle only, rear axle spring
parking brake.

Code: "M" — Compressed air, drum type, anti-lock devices
installed in both axles, rear axle spring park-
ing brake.

Code: "N" — Compressed air, drum type, no anti-lock devices
installed, drive shaft spring parking brake.

Code: "P" — Compressed air, drum type, anti-lock device
installed in rear axle only, drive shaft spring
parking brake.

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3.2.2.5    Eighth Character: (Continued)

        Code: "R"          –  Compressed air, drum type, anti-lock devices in-
                                            stalled in both axles, drive shaft spring park-
                                            ing brake.

3.2.3    Check Digit

This single digit shall be left blank on all drawings assigning codes to
specific configurations. The check digit shall be calculated by computer
in accordance with FMVSS #115, amended, and shall be included in all VIN
printouts, listings and other references to, or usage of, the VIN.

3.2.4    Section III

These codes are established by the manufacturer. Codes for the first digit
of this section shall be in accordance with FMVSS #115, the second digit of
this section must be submitted to the federal government for information
sixty (60) days prior to usage. The format, not the specific numbers, of
the remaining digits must also be submitted for information.

3.2.4.1    First Character:

        Vehicle           –  This character is controlled by the application
        Model Year            of Table II as found in the amended FMVSS 115.

        Code:              –  Refer to Table II, FMVSS 115, duplicated on pg. 7
                                   of this specification.

3.2.4.2    Second Character:

        Plant of           –  This character code identifies the location of
        Manufacturer         the plant in which the vehicle was manufactured.

        Code: "D"          –  The Flxible Corporation
                                     Delaware Plant
                                     Delaware, Ohio   43015

3.2.4.3    Third Through Eighth Characters:

        Production         –  These characters (must be numerics) represent
        Sequence Number      the number sequentially assigned by the manu-
                                       facturer in the production process.

        Code:              –  Per continuing applicable current series of
                                     serial numbers. (Example: Prototype II – 090007)

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DUPLICATION OF

TABLE II

OF FMVSS #115

| YEAR | CODE |
| --- | --- |
| 1980 | A |
| 1981 | B |
| 1982 | C |
| 1983 | D |
| 1984 | E |
| 1985 | F |
| 1986 | G |
| 1987 | H |
| 1988 | J |
| 1989 | K |
| 1990 | L |
| 1991 | M |
| 1992 | N |
| 1993 | P |
| 1994 | R |
| 1995 | S |
| 1996 | T |
| 1997 | V |
| 1998 | W |
| 1999 | X |
| 2000 | Y |
| 2001 | 1 |
| 2002 | 2 |
| 2003 | 3 |
| 2004 | 4 |
| 2005 | 5 |
| 2006 | 6 |
| 2007 | 7 |
| 2008 | 8 |
| 2009 | 9 |
| 2010 | A |
| 2011 | B |
| 2012 | C |

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