

SURFACE VEHICLE RECOMMENDED PRACTICE

J1892

JUN2014

Issued 1988-05
Cancelled 2014-06

Superseding J1892 SEP1998

Recommended Practice for Bar-coded Vehicle Emission Configuration Label

RATIONALE

After reviewing J1892 and determining that the origin sprang from legislated requirements, the committee inquired with CARB and EPA about the current relevance of the standard. CARB stated that it was not used except through reference to EPA legislation. EPA provided a written comment that I've attached below. Based on this information, the committee recommends retiring the standard as it is no longer used.

Memo from EPA regarding J1892 (4/07/2010)

The SAE labeling standards are incorporated by reference in 86.095-35 (h) notification of nonconformance penalties. This labeling must be started within 10 days of production compliance auditing. We no longer perform production compliance audits. Basically, the reference in 86.095-35 (h) is obsolete, not enforced, and abandoned with the introduction of subpart S and CAP 2000. Subpart S for 40 CFR Part 86 (light duty vehicle, light duty truck, and heavy duty chassis testing) does not have provisions for introducing any non-conforming vehicles into commerce. At least for light duty, we have no issues with cancelling SAE J1892. Its reference is no longer applicable.

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Documents

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Foreword—This Document has also changed to comply with the new SAE Technical Standards Board format.

1. Scope—This SAE Recommended Practice describes the basic content requirements, bar-code specifications, and functional test specifications of a vehicle emission configuration (VEC) label. On the vehicle, the VEC label is to be mounted under the hood in a readily accessible location for use of a bar-code scanning device.

1.1 Purpose—This document specifies a permanent vehicle emission configuration label that can be automatically identified through a bar-coded format.

2. References

2.1 Applicable Publications—The following publications form a part of this specification to the extent specified herein.

2.1.1 AIAG PUBLICATIONS—Available from Automotive Industry Action Group, 26200 Lahser Road, Suite 200, Southfield, MI 48034.

AIAG B-1—Bar Code Symbology

AIAG B-7—Vehicle Emission Configuration

3. Definitions

3.1 Vehicle Emission Configuration (VEC)—The VEC identifies selected emission controls on a vehicle as well as partially identifying the engine family designation.

3.2 Engine Displacement—The engine displacement signifies the engine size as expressed in liters. Two characters on the VEC label indicate the engine displacement; the decimal point is deleted.

3.3 Emission Control System (ECS) Combination Code—A coded letter or single-digit number in the VEC that designates the combination of selected major emission controls that are installed on the vehicle by the vehicle manufacturer. The frequency of engine ignition is included in this code combination.

- 3.4 Label (Reference AIAG B-7—Appendix A)**—The surface containing the VEC information in bar-coded and human-readable formats.
- 3.5 Bar-Code Reader (Reference AIAG B-7—Appendix A)**—A device for machine reading of bar codes, which typically consists of a noncontact scanner, a decoder, and a data communications device.
- 3.6 Permanent Label**—A permanent label shall be intended to provide a scannable life that approximates the life of the vehicle as simulated by the test specifications in Section 7.
- 3.7 Verification**—A procedure to compare dimensional and optical characteristics of a bar code to specified tolerances using mechanical or manual processes.
- 3.8 Measurement or Analysis**—The process to arrive at actual dimensions, which are used for comparison to specifications.

4. Label Specifications

- 4.1 Vehicle Emission Configuration Label Content**—The VEC bar code shall consist of eight characters preceded by the data identifier "3T." The eight characters are defined in the following paragraphs. The bar code also contains a start and stop character. The label will also contain a title, VEC, unless the bar code is part of the Vehicle Emission Control Information Label.

- 4.1.1 ENGINE DISPLACEMENT**—The VEC label shall first contain two characters for engine displacement specified in liters.

For engine displacements less than 10 L, the displacement shall be expressed to the nearest one-tenth of a liter, and then multiplied by 10 on the VEC label. For displacements 10 L and over (rare), the displacement shall be expressed to the nearest liter. (This procedure allows the elimination of the decimal point from the VEC label.) See Table 1.

TABLE 1—VEC LABEL CONTENT CHARACTERS 1 AND 2: ENGINE DISPLACEMENT

Label Character No.	Designation
1,2	Engine displacement in liters (Example: 11 would be 1.1 L, or 11 L in rare cases)

4.1.2 VEHICLE CLASS—The VEC label's third character shall contain information to describe the vehicle class.

TABLE 2—VEC LABEL CONTENT CHARACTER 3: VEHICLE CLASS

TABLE 2A—1998 AND LATER MY FEDERAL AND CALIFORNIA LIGHT-DUTY

Code	Fuel	Description GVWR (lbs)	Description ALVW (lbs)	Description LVW (lbs)	Tier 1
V	Any		LDV or CARB PC		LDV
1	Any	0-6000	Any	0-3750	LDT1
2	Any	0-6000	Any	3751-5750	LDT2
3	Any	>6000	3751-5750	0-3750	LDT3 ⁽¹⁾
4	Any	>6000	≥5751	0-3750	LDT4 ⁽¹⁾
5	Any	>6000	3751-5750	≥3751	LDT5 ⁽¹⁾
6	Any	>6000	≥5751	≥3751	LDT6 ⁽¹⁾

1. Federal Only

TABLE 2B—1998 AND LATER MY CALIFORNIA MEDIUM-DUTY

Code	Designation	GVWR	ALVW
G	MDV-1	>6000	0-3750
H	MDV-2	>6000	3751-5750
J	MDV-3	>6000	5751-8500
K	MDV-4	>6000	8501-10000
L	MDV-5	>6000	10001-14000
W	MDV OPT	8501-14000	Incomplete Vehicle

TABLE 2C—1998 AND LATER MY HEAVY-DUTY OR CFV HEAVY-DUTY

Code	Useful Life	Standard	Description
A	LHDE	Light-Duty	Option for <10 000 GVWR
B	LHDE	<14K GVWR ⁽¹⁾	Typically GVWR <19.5K, HP 70-170
C	LHDE	>14K GVWR ⁽²⁾	Typically GVWR <19.5K, HP 70-170
D	MHDE	>14K GVWR	Typically GVWR 19.5K-33K, HP 170-250
E	HHDE	>14K GVWR	Typically GVWR >33K, HP >250
F	HHDE	URBAN BUS	HHDE Bus

1. Also use this code for families containing both <14K and >14K GVWR, if all vehicles are intended to comply with <14K standards.
2. Use this code for families containing both <14K and >14K GVWR.

**TABLE 2D—1998 AND LATER MY 50 STATE TRUCK (6000—14 000 GVWR)
FEDERAL HEAVY LIGHT-DUTY TRUCK AND CALIFORNIA MEDIUM-DUTY TRUCK**

Code	EPA LDT Vehicle Class ⁽¹⁾ (6000–8500 GVWR)	California MDT Vehicle Class ⁽²⁾ (6000–14 000 GVWR)
M	3	H
N	4	J
P	5	H
R	6	J

1. Codes from Table 2A: 1998 and Later MY Federal and California Light-Duty
2. Codes from Table 2B: 1998 and Later MY California Medium-Duty

**TABLE 2E—1998 AND LATER MY 50 STATE TRUCK (6000—14 000 GVWR)
FEDERAL HEAVY-DUTY TRUCK AND CALIFORNIA MEDIUM-DUTY TRUCK**

Code	EPA HDT Vehicle Class ⁽¹⁾ (>8500 GVWR)	California MDT Vehicle Class ⁽²⁾ (6000–14 000 GVWR)
S	A	K
T	B	W

1. Codes from Table 2C: 1998 and Later MY Heavy-Duty or CFV Heavy-Duty
2. Codes from Table 2B: 1998 and Later MY California Medium-Duty

NOTE—Characters 7, 8, 9, 0, U, X, Y, and Z are reserved.

EXAMPLES OF FEDERAL, CALIFORNIA, AND 50-STATE VEHICLE CLASS

Example 1: A federal-only engine family is certified in the LDT5 vehicle class. Character 3 of the VEC bar code for this engine family should be 5.

Example 2: A California-only engine family is certified in the MDV-2 vehicle class. Character 3 of the VEC bar code for this engine family should be H.

Example 3: A 50-state engine family is certified in the federal LDT5 vehicle class and the California MDV-2 vehicle class. Character 3 of the VECI bar code for this family should be P.

- 4.1.3 WILD CARD—The fourth character of the VEC label shall be a wild card. An alphanumeric character may be used (A, B, C...X, Y, Z or 0, 1, 2, 3...7,8,9), but the wild card must ensure that every vehicle engine family will have an original VEC bar code.