

**Environmental Protection Agency**

**§ 86.000-2**

Document No. and name	40 CFR part 86 reference
SAE J1939-71, Vehicle Application Layer—J1939-71 (through 1999). (Revised, August 2002).	86.005-17; 86.1806-04; 86.1806-05
SAE J1939-73, Application Layer-Diagnostics. (Revised, June 2001) .....	86.005-17; 86.1806-04; 86.1806-05
SAE J1939-81, Recommended Practice for Serial Control and Communications Vehicle Network Part 81—Network Management. (July 1997).	86.005-17; 86.1806-04; —86.1806-05
SAE J1962, Diagnostic Connector—Equivalent to ISO/DIS 15031-3:December 14, 2001. (Revised, April 2002).	86.005-17;86.1806-04; 86.1806-05
SAE J1978, OBD II Scan Tool—Equivalent to ISO/DIS 15031-4; December 14, 2001. (Revised, April 2002).	86.005-17;86.1806-04; 86.1806-05
SAE J1979, E/E Diagnostic Test Modes—Equivalent to ISO/DIS 15031-5: April 30, 2002. (Revised, April 2002).	86.099-17;86.005-17; 86.1806-01; 86.1806-04; 86.1806-05
SAE J2012, Diagnostic Trouble Code Definitions—Equivalent to ISO/DIS 15031-6: April 30, 2002. (Revised, April 2002.).	86.005-17; 86.1806-04; 86.1806-05

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(5) \* \* \*

Document No. and name	40 CFR part 86 reference
ISO 9141-2, February 1, 1994, Road vehicles—Diagnostic systems—Part 2: CARB requirements for interchange of digital information.	86.099-17; 86.1806-01; 86.1806-04; 86.005-17; 86.1806-05
ISO 14230-4:2000(E) "Road vehicles—Diagnostic systems—KWP 2000 requirements for Emission-related systems", (June 1, 2000).	86.099-17; 86.1806-01; 86.1806-04; 86.005-17; 86.1806-05
ISO 15765-4.3:2001, December 14, 2001, Road Vehicles—Diagnostics on Controller Area Network (CAN)—Part 4: Requirements for emission-related systems.	86.005-17; 86.1806-04; 86.1806-05

2. At 68 FR 38448, June 27, 2003, §86.1 was amended by adding four entries to the table in paragraph (b)(1) effective August 26, 2003. For the convenience of the user, the added text appears as follows:

**§ 86.1 Reference materials.**

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(b) \* \* \*

(2) \* \* \*

Document No. and name	40 CFR part 86 reference
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SAE Recommended Practice J1930 (Revised, May, 1998), Electrical/ Electronic Systems Diagnostic Terms, Definitions, Abbreviations, and Acronyms.	86.096-38; 86.004-38; 86.007-38; 86.1808-01; 86.1808-07.
SAE Recommended Practice J1979 (Revised, September, 1997), E/E Diagnostic Test Modes.	86.096-38; 86.004-38; 86.007-38; 86.1808-01; 86.1808-07.
SAE Recommended Practice J2284-3 (May, 2001), High Speed CAN (HSC) for Vehicle Applications at 500 KBPS.	86.096-38; 86.004-38; 86.007-38; 86.1808-01; 86.1808-07.
SAE Recommended Practice J2534 (February, 2002), Recommended Practice for Pass-Thru Vehicle Programming.	86.096-38;86.004-38; 86.007-38; 86.1808-01; 86.1808-07.

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**Subpart A—General Provisions for Emission Regulations for 1977 and Later Model Year New Light-Duty Vehicles, Light-Duty Trucks and Heavy-Duty Engines, and for 1985 and Later Model Year New Gasoline Fueled, Natural Gas-Fueled, Liquefied Petroleum Gas-Fueled and Methanol-Fueled Heavy-Duty Vehicles**

SOURCE: 42 FR 32907, June 28, 1977, unless otherwise noted.

**§ 86.000-2 Definitions.**

The definitions of §86.098-2 continue to apply to 1998 and later model year vehicles. The definitions listed in this section apply beginning with the 2000 model year.

ACI means a test procedure as described in §86.162-00 which simulates testing with air conditioning operating in an environmental test cell by adding the air conditioning compressor load to the normal dynamometer forces.

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*AC2* means a test procedure as described in §86.162-00 which simulates testing with air conditioning operating in an environmental test cell by adding a heat load to the passenger compartment.

*Alternative fuels* means any fuel other than gasoline and diesel fuels, such as methanol, ethanol, and gaseous fuels.

*866 Cycle* means the test cycle that consists of the last 866 seconds (seconds 505 to 1372) of the EPA Urban Dynamometer Driving Schedule, described in §86.115-00 and listed in appendix I, paragraph (a), of this part.

*Environmental test cell* means a test cell capable of wind-speed, solar thermal load, ambient temperature, and humidity control or simulation which meets the requirements of §86.161-00 for running emission tests with the air conditioning operating.

*Federal Test Procedure, or FTP* means the test procedure as described in §86.130-00 (a) through (d) and (f) which is designed to measure urban driving tail pipe exhaust emissions and evaporative emissions over the Urban Dynamometer Driving Schedule as described in appendix I to this part.

*505 Cycle* means the test cycle that consists of the first 505 seconds (seconds 1 to 505) of the EPA Urban Dynamometer Driving Schedule, described in §86.115-00 and listed in appendix I, paragraph (a), of this part.

*SC03* means the test cycle, described in §86.160-00 and listed in appendix I, paragraph (h), of this part, which is designed to represent driving immediately following startup.

*Supplemental FTP, or SFTP* means the additional test procedures designed to measure emissions during aggressive and microtransient driving, as described in §86.159-00 over the US06 cycle, and also the test procedure designed to measure urban driving emissions while the vehicle's air conditioning system is operating, as described in §86.160-00 over the SC03 cycle.

*US06* means the test cycle, described in §86.159-00 and listed in appendix I, paragraph (g), of this part, which is designed to evaluate emissions during aggressive and microtransient driving.

[61 FR 54878, Oct. 22, 1996]

### § 86.000-3 Abbreviations.

The abbreviations in §86.098-3 continue to apply to 1998 and later model year vehicles. The abbreviations in this section apply beginning with the 2000 model year:

A/C—Air conditioning  
FTP—Federal Test Procedure  
SFTP—Supplemental Federal Test Procedure  
WOT—Wide Open Throttle

[61 FR 54878, Oct. 22, 1996]

### § 86.000-7 Maintenance of records; submittal of information; right of entry.

Section 86.000-7 includes text that specifies requirements that differ from §86.091-7, §86.094-7 or §86.096-7. Where a paragraph in §86.091-7, §86.094-7 or §86.096-7 is identical and applicable to §86.000-7, this may be indicated by specifying the corresponding paragraph and the statement “[Reserved]. For guidance see §86.091-7.” or “[Reserved]. For guidance see §86.094-7.” or “[Reserved]. For guidance see §86.096-7.”

(a) introductory text through (a)(2) [Reserved]. For guidance see §86.091-7.

(a)(3) [Reserved]. For guidance see §86.094-7.

(b) through (c)(2) [Reserved]. For guidance see §86.091-7.

(c)(3) [Reserved]. For guidance see §86.094-7.

(c)(4) through (d)(1)(v) [Reserved]. For guidance see §86.091-7.

(d)(1)(vi) through (d)(2)(iv) [Reserved]. For guidance see §86.094-7.

(d)(3) through (g) [Reserved]. For guidance see §86.091-7.

(h)(1) The manufacturer (or contractor for the manufacturer, if applicable) of any model year 2000 through 2002 light-duty vehicle or light light-duty truck or model year 2002 through 2004 heavy light-duty truck that is certified shall establish, maintain, and retain the following adequately organized and indexed records for each such vehicle:

- (i) EPA engine family;
- (ii) Vehicle identification number;
- (iii) Model year and production date;
- (iv) Shipment date;
- (v) Purchaser; and
- (vi) Purchase contract.

(h)(2) through (h)(5) [Reserved]. For guidance see §86.094-7.