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- (1) Hydrocarbons: 220 ppm as hexane.
- (2) Carbon monoxide: 1.2%.

[58 FR 58401, Nov. 1, 1993]

§ 85.2204 Short test standards for 1981 and later model year light-duty trucks.

(a) For light-duty trucks for which the test procedures described in § 85.2209, 85.2210, 85.2211, 85.2212, 85.2214, or 85.2216 are used to establish Emissions Performance Warranty eligibility (that is, 1981 and later model year light-duty trucks at low altitude and 1982 and later model year trucks at high altitude to which high altitude certification standards of 2.0 g/mile HC and 26 g/mile CO or less apply), short test emissions may not exceed the standards listed in paragraphs (a)(1) and (2) of this section.

- (1) Hydrocarbons: 220 ppm as hexane.
- (2) Carbon monoxide: 1.2%.

(b) For light-duty trucks for which the test procedure described in § 85.2214 is used to establish Emissions Performance Warranty eligibility (that is, 1981 and later model year light-duty trucks at low altitude and 1982 and later model year trucks at high altitude to which high altitude certification standards of 2.0 g/mile HC and 26 g/mile CO or less apply), the lowest readings from the two idle modes must be used to determine compliance. Short test emissions may not exceed the standards listed in paragraphs (b)(1) and (2) of this section.

- (1) Hydrocarbons: 200 ppm as hexane.
- (2) Carbon monoxide: 1.0%.

(c) For 1981 and later model year gasoline-fueled light-duty trucks for which any of the test procedures described in § 85.2213, 85.2215, 85.2217, 85.2218, 85.2219, or 85.2220 are utilized to establish Emissions Performance Warranty eligibility (that is, 1981 and later model year light-duty trucks at low altitude and 1982 and later model year trucks at high altitude to which high altitude certification standards of 2.0 g/mile HC and 26 g/mile CO or less apply), short test emissions for all tests and test modes may not exceed the standards listed in paragraphs (c)(1) and (2) of this section.

- (1) Hydrocarbons: 220 ppm as hexane.
- (2) Carbon monoxide: 1.2%.

[58 FR 58401, Nov. 1, 1993]

40 CFR Ch. I (7-1-00 Edition)

§§ 85.2205-85.2206 [Reserved]

§ 85.2207 On-board diagnostics test standards.

(a) [Reserved]

(b) A vehicle shall fail the on-board diagnostics test if it is a 1996 or newer vehicle and the vehicle connector is missing, has been tampered with, or is otherwise inoperable.

(c) A vehicle shall fail the on-board diagnostics test if the malfunction indicator light is commanded to be illuminated and it is not visually illuminated according to visual inspection.

(d) A vehicle shall fail the on-board diagnostics test if the malfunction indicator light is commanded to be illuminated and any of the following OBD codes, as defined by SAE J2012 are present (where X refers to any digit). The procedure shall be done in accordance with SAE J2012 Diagnostic Trouble Code Definitions, (MAR92). This incorporation of reference was approved by the Director of the Federal Register in accordance with 5 U.S.C.552(a) and 1 CFR part 51. Copies of SAE J2012 may be obtained from the Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096-0001. Copies may be inspected at the EPA Docket No. A-94-21 at EPA's Air Docket, (LE-131) Room 1500 M, 1st Floor, Waterside Mall, 401 M Street SW, Washington, DC, or at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC.

- (1) Any PX1XX Fuel and Air Metering codes.
- (2) Any PX2XX Fuel and Air Metering codes.
- (3) Any PX3XX Ignition System or Misfire codes.
- (4) Any PX4XX Auxiliary Emission Controls codes.
- (5) P0500 Vehicle Speed Sensor Malfunction.
- (6) P0501 Vehicle Speed Sensor Range/Malfunction.
- (7) P0502 Vehicle Speed Sensor Circuit Low Input.
- (8) P0503 Vehicle Speed Sensor Intermittent/Erratic/High.
- (9) P0505 Idle Control System Malfunction.
- (10) P0506 Idle Control System RPM Lower Than Expected.

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- (11) P0507 Idle Control System RPM Higher Than Expected.
- (12) P0510 Closed Throttle Position Switch Malfunction.
- (13) P0550 Power Steering Pressure Sensor Circuit Malfunction.
- (14) P0551 Power Steering Pressure Sensor Circuit Malfunction.
- (15) P0552 Power Steering Pressure Sensor Circuit Low Input.
- (16) P0553 Power Steering Pressure Sensor Circuit Intermittent.
- (17) P0554 Power Steering Pressure Sensor Circuit Intermittent.
- (18) P0560 System Voltage Malfunction.
- (19) P0561 System Voltage Unstable.
- (20) P0562 System Voltage Low.
- (21) P0563 System Voltage High.
- (22) Any PX6XX Computer and Output Circuits codes.
- (23) P0703 Brake Switch Input Malfunction.
- (24) P0705 Transmission Range Sensor Circuit Malfunction (PRNDL Input).
- (25) P0706 Transmission Range Sensor Circuit Range/Performance.
- (26) P0707 Transmission Range Sensor Circuit Low Input.
- (27) P0708 Transmission Range Sensor Circuit High Input.
- (28) P0709 Transmission Range Sensor Circuit Intermittent.
- (29) P0719 Torque Converter/Brake Switch "B" Circuit Low.
- (30) P0720 Output Speed Sensor Circuit Malfunction.
- (31) P0721 Output Speed Sensor Circuit Range/Performance.
- (32) P0722 Output Speed Sensor Circuit No Signal.
- (33) P0723 Output Speed Sensor Circuit Intermittent.
- (34) P0724 Torque Converter/Brake Switch "B" Circuit High.
- (35) P0725 Engine Speed Input Circuit Malfunction.
- (36) P0726 Engine Speed Input Circuit Range/Performance.
- (37) P0727 Engine Speed Input Circuit No Signal.
- (38) P0728 Engine Speed Input Circuit Intermittent.
- (39) P0740 Torque Converter Clutch System Malfunction.
- (40) P0741 Torque Converter System Performance or Stuck Off.
- (41) P0742 Torque Converter Clutch System Stuck On.

(42) P0743 Torque Converter Clutch System Electrical.

(43) P0744 Torque Converter Clutch Circuit Intermittent.

(e) [Reserved]

[61 FR 40946, Aug. 6, 1996, as amended at 63 FR 24433, May 4, 1998]

§ 85.2208 Alternative standards and procedures.

(a)(1) As a part of the certification process, as set forth in 40 CFR part 86, subparts A and S, a manufacturer may request an alternative short test standard or short test procedure for any vehicle or engine for which the standards or procedures specified in this subpart are not appropriate. The requestor shall supply relevant test data and technical support to substantiate the claim and shall also recommend alternative test procedures and/or standards for the Administrator's consideration. Upon an acceptable showing that the general standards or procedures are not appropriate, the Administrator shall set alternative standards or procedures through rulemaking. The administrative provisions of the certification process (see 40 CFR part 86, subparts A and S), apply to such a request for alternative standards or procedures.

(2) Any such alternative standards or test procedures must be specified on the emission control information label to be effective for that particular vehicle or engine. The Administrator may waive this requirement if it is determined that a given model year of production for which an alternative test procedure is promulgated is too far advanced at the time of promulgation to make such a requirement practical.

(3) Alternative test procedures may be approved if the Administrator finds that:

(i) Such procedures are in accordance with good engineering practice, including errors of commission (at cutpoints corresponding to equivalent emission reductions) no higher than the tests they would replace;

(ii) Such procedures show a correlation with the Federal Test Procedure (with respect to their ability to detect high emitting vehicles and ensure their effective repair) equal to or better than the tests they would replace; and