State of California
AIR RESOURCES BOARD

CALIFORNIA ASSEMBLY-LINE TEST PROCEDURES FOR 2001 AND SUBSEQUENT MODEL-YEAR PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

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CALIFORNIA ASSEMBLY-LINE TEST PROCEDURES FOR 2001 AND SUBSEQUENT MODEL-YEAR PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

A. GENERAL PROVISIONS

1. APPLICABILITY

These test procedures, adopted pursuant to Section 43210 of the California Health and Safety Code, are applicable to all new 2001 and subsequent model-year passenger cars, light-duty trucks, and medium-duty vehicles subject to certification and manufactured for sale in California, except for zero-emission vehicles and medium-duty vehicles certified according to the standards and test procedures of section 1956.8, Title 13, California Code of Regulations (CCR). A vehicle is in compliance with these assembly-line test procedures when that vehicle is in compliance with the inspection test requirements. These test procedures also apply to any 2000 model-year vehicle that a manufacturer elects to make subject to 40 CFR, part 86, subpart S in lieu of subpart A.

2. ACCESS

Air Resources Board (ARB) personnel and mobile laboratories shall have access to vehicle assembly plants, distribution facilities, and test facilities for the purpose of vehicle selection, testing, and observation. Scheduling of access shall be arranged with the designated manufacturer's representative and shall not unreasonably disturb normal operations.

3. VARIATIONS AND EXEMPTIONS

Variations from these procedures which produce substantially equivalent results may be authorized by the Executive Officer. In extraordinary circumstances where compliance with these procedures is not possible or practicable, a manufacturer may appeal to the Air Resources Board for a temporary exemption.

4. COMMUNICATIONS

All reports required by these procedures shall be sent to:

Chief, Mobile Source Operations Division
California Air Resources Board
9528 Telstar Avenue
El Monte, CA 91731

5. REPORTING

Each vehicle manufacturer shall submit a quarterly report to the ARB within 45 calendar days after the end of each calendar quarter and 45 calendar days after the end of the production year. More frequent reports may be required if the Executive Officer invokes Title 13 CCR Section 2109. The quarterly report shall include the total test group quarterly production of vehicles produced and delivered for sale in California for the quarter, reported by vehicle class, the standards to which the test group is certified, the production start date, and for the final quarter, the final production date.

B. INSPECTION TEST PROCEDURES

1. TEST PROCEDURES

The inspection test is a functional test of the emission control components and systems used on the vehicle to determine whether the emission control system is operating properly. It shall be performed on all passenger cars, light-duty trucks and medium-duty vehicles subject to these assembly-line test procedures, in accordance with a plan approved by the Executive Officer. At least 90 days prior to the start of production, the manufacturer shall submit to the Executive Officer a plan for functional testing which lists the emission control components and systems to be tested and specifies the testing procedures to be used. This plan shall include, but not be limited to, the list of components and systems contained in Appendix A, which sets forth typical types of components and systems. If an on-board emission control diagnostic system of any type, either completely self-contained or requiring external peripheral equipment, is installed on a vehicle, it must be included in the components to be functionally tested and the on-board diagnostic system must be used to the fullest extent practical in functionally testing the vehicle emission control system. In appropriate instances, functional tests may be conducted during the vehicle assembly process before the end of the assembly line. For components that cannot practically be functionally checked on every vehicle, a statistically valid sampling test may be used as the functional tests. The Executive Officer shall approve the plan unless he or she determines that the tests are not designated for the appropriate control components and systems or that the tests will be inadequate to reasonably assure that the components and systems are correctly installed and are functioning properly. Approval of the test plan applies to subsequent model years until changes are made to the emission control components or systems being used, or to the approved test plan. The manufacturer may at any time submit proposed changes to the plan for functional testing. An update to an approved plan or resubmittal of a new plan is required when changes are made to the emission control components or systems necessitating a change in the functional tests, or changes are proposed to the test plan.

2. EVALUATION

Only vehicles that pass every test sequence in the approved functional test plan will be considered to be in compliance with the inspection test requirements. In order for a vehicle to satisfy the inspection test requirements, each of the emission control components and systems identified in the approved plan for testing must be correctly installed and functioning properly pursuant to the specified approved test.

3. REPORTING

Each manufacturer shall submit quarterly a statement that the functional tests included in the approved test plan have been conducted on all vehicles produced for sale in California. The statement shall be signed by an official of the manufacturer who has verified the accuracy of the statement and shall accompany the quarterly audit test report.

APPENDIX A

EMISSION CONTROL COMPONENTS AND SYSTEMS

Air Diverter Valve
Air/Fuel Control System
Air Injection Control Valves
Air Injection Pump
Camshaft Position Sensor
Canister Purge Valve
Carburetor or Fuel Injection System
Catalyst
Choke
Controlled Air Intake System
Coolant Temperature Sensor
Crankshaft Position Sensor
Diesel Particulate Control System
Distributor
EGR Control System Components
Electronic (Computer) Control System
Emissions Related Hoses, Tubing, Clamps, Belts, Fittings, Wiring, Connectors, Sensors and Switches.
Evaporative System
Exhaust Gas Recirculation (EGR)
Ignition Coil & Wires
Ignition Control Module
Intake Air Temperature Sensor
Malfunction Indicator Light (MIL)
Mass Air Flow Sensor
Misfire Detection System
On-Board Diagnostic System
Oxygen Sensor
Positive Crankcase Ventilation
Power Train Control Module (Built-in test, BIT)
Throttle Position Sensor
Vacuum Hose Connections