

- Make all necessary repairs before continuing with the quick test. For additional information, refer to QUICK TEST DESCRIPTION in this service information.

VEHICLE CHECK AND PREPARATION > VEHICLE PREPARATION

- Carry out all safety steps required to start and run vehicle tests. Apply the parking brake, place the gear selector lever firmly into the PARK position on automatic transmission vehicles or NEUTRAL on manual transmission vehicles, and block the drive wheels.
- Turn off all electrical loads such as radios, lamps, A/C, blower, and fans.
- Start the engine (if the engine runs) and bring it up to the normal operating temperature before running the quick test.

QUICK TEST DESCRIPTION > QUICK TEST

The quick test is divided into 3 specialized tests:

1. Key On Engine Off (KOEO) On Demand Self-Test
2. Key On Engine Running (KOER) On Demand Self-Test
3. Continuous Memory Self-Test

The quick test checks the integrity and function of the electronic engine control (EEC) system and outputs the test results when requested by the scan tool. The quick test also provides a quick check of the powertrain control system, and is usually carried out at the start of each diagnostic procedure with all accessories off. The quick test is also carried out at the end of most pinpoint tests for verification of the repair and to make sure no other concerns are incurred while repairing a previous concern. A system pass is displayed when no diagnostic trouble codes (DTCs) are output and a scan tool communication error does not exist. System pass means that hardware monitored by the PCM is functioning within the normal operating limits. Only a system pass, a DTC, or an incomplete on board diagnostic (OBD) drive cycle is displayed.

For applications that use a stand alone transmission control module (TCM) the PCM does not output TCM DTCs. For TCM self-test and diagnostics, refer to the service information Automatic Transmission.

QUICK TEST DESCRIPTION > KEY ON ENGINE OFF (KOEO) ON DEMAND SELF-TEST

The KOEO on demand self-test is a functional test of the PCM carried out on demand with the ignition ON and the engine OFF. This test carries out checks on certain sensor and actuator circuits. A concern must be present at the time of testing for the KOEO self-test to detect the concern. When a concern is detected, a DTC is output on the data link at the end of the test as requested by the scan tool.

QUICK TEST DESCRIPTION > KEY ON ENGINE RUNNING (KOER) ON DEMAND SELF-TEST