QT: Powertrain Control Module (PCM) Quick Test

QT1 CARRY OUT THE PCM QUICK TEST

Note: If the vehicle was brought in with an emission compliance concern, GO to Pinpoint Test EM .

Note: For applications that use a stand-alone transmission control module (TCM), the PCM does not output TCM related diagnostic trouble codes (DTCs). Refer to the Workshop Manual Section 307-01, Automatic Transaxle/Transmission, diagnostic strategy to continue diagnosis.

Note: If unable to access the PCM DTCs, or a scan tool communication concern exists, GO to Pinpoint Test QA in Section 5. For additional information on retrieving malfunction indicator lamp (MIL) and non-MIL DTCs, refer to Section 2, Quick Test Description for the Continuous Memory Self-Test.

- Complete the preliminary checks looking for obvious concerns that may relate to the symptom. Check for the following items:
    - fuses
    - electrical circuits and connectors
    - vacuum lines (leaks, routing)
    - air intake system (leaks, restrictions)
    - fuel quality (octane, contamination, winter/summer blend)
    - cooling system (engine operating at correct temperature)
- Access any related On-line Automotive Service Information System (OASIS) or Technical Service Bulletin (TSB) information (if available).
- Carry out the PCM self-test to access any DTCs. Record any key on engine off (KOEO), key on engine running (KOER) (if the engine runs) and continuous memory (MIL and non-MIL) DTCs.

Are any DTCs present?

Yes	No
GO to Section 4, Diagnostic Trouble Code (DTC) Charts and Descriptions for direction to repair DTCs after noting the following: DIAGNOSE the DTCs in the following order (begin diagnosis with the first DTC output in that mode and diagnose any circuit related DTCs first). For multiple circuit DTCs that are set as a result of a concern with more than one component, REFER to the Wiring Diagrams Manual Electronic Engine Controls Cell and identify the common cause such as SIGRTN, VREF, or VPWR. CONTINUE DTC diagnosis by referring to the appropriately identified pinpoint test. 1. Any KOEO self-test DTCs 2. Any KOER self-test DTCs 3. Any continuous memory self-test DTCs. Retrieve any available freeze frame data and disregard any identical/related continuous DTCs already repaired.	GO to No Diagnostic Trouble Codes (DTCs) Present Symptom Chart Index for direction to the correct symptom chart in No Diagnostic Trouble Codes (DTCs) Present Symptom Charts . If the symptom is not listed, REFER to the applicable Workshop Manual Section to continue diagnosis.