

**DTC TROUBLESHOOTING: P2A00, P...****2010 ELEMENT - - DTC Troubleshooting: P2A00, P2A00****DTC P2A00:** A/F Sensor (Sensor 1) Circuit Range/Performance Problem

NOTE: Before you troubleshoot, record all freeze data and any on-board snapshot, and [review the general troubleshooting information](#).

1. Turn the ignition switch to ON (II).
2. Clear the DTC with the HDS.
3. Start the engine. Hold the engine speed at 3,000 rpm without load (A/T in P or N, M/T in neutral) until the radiator fan comes on, then let it idle.
4. Test-drive under these conditions:
  - Engine coolant temperature (ECT SENSOR 1) above 158 °F (70 °C)
  - A/T in D, M/T in 3rd
  - Vehicle speed between 25 - 55 mph (40 - 88 km/h) for 5 minutes
  - Drive at a steady speed between 55 - 75 mph (88 - 120 km/h) for 10 seconds, then decelerate (with the throttle fully closed) for 5 seconds
5. Monitor the OBD STATUS for DTC P2A00 in the DTCs MENU with the HDS.

Does the screen indicate FAILED?

YES — Go to step [6](#).

NO — If the screen indicates PASSED, intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the A/F sensor (Sensor 1) and the ECM/PCM. If the screen indicates EXECUTING, keep driving until a result comes on. If the screen indicates OUT OF CONDITION, go to step [3](#) and recheck.

6. Turn the ignition switch to LOCK (0).
7. [Replace the A/F sensor \(Sensor 1\)](#).
8. Turn the ignition switch to ON (II).
9. Reset the ECM/PCM with the HDS.
10. [Do the ECM/PCM idle learn procedure](#).
11. Start the engine. Hold the engine speed at 3,000 rpm without load (A/T in P or N, M/T in neutral) until the radiator fan comes on, then let it idle.
12. Test-drive under these conditions:
  - Engine coolant temperature (ECT SENSOR 1) above 158 °F (70 °C)
  - A/T in D, M/T in 3rd
  - Vehicle speed between 25 - 55 mph (40 - 88 km/h) for 5 minutes
  - Drive at a steady speed between 55 - 75 mph (88 - 120 km/h) for 10 seconds, then decelerate (with the throttle fully closed) for 5 seconds
13. Check for Pending or Confirmed DTCs with the HDS.

Is DTC P2A00 indicated?

YES — Check for poor connections or loose terminals at the A/F sensor (Sensor 1) and the ECM/PCM, then go to step [1](#).

NO — Go to step [14](#).

14. Monitor the OBD STATUS for DTC [P2A00](#) in the DTCs MENU with the HDS.

Does the screen indicate PASSED?

YES — Troubleshooting is complete. If any other Pending or Confirmed DTCs were indicated in step [13](#), go to the indicated DTC's troubleshooting.■

NO — If the screen indicates FAILED, check for poor connections or loose terminals at the A/F sensor (Sensor 1) and the ECM/PCM, then go to step [1](#). If the screen indicates EXECUTING, keep driving until a result comes on. If the screen indicates OUT OF CONDITION, go to step [11](#).

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