



DTC P0341: CMP Sensor A and CKP Sensor Incorrect Phase Detected

NOTE:

- Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see page 11-3).
- If DTC P1009 is stored at the same time as DTC P0341, troubleshoot DTC P1009 first, then recheck for DTC P0341.

1. Turn the ignition switch ON (II).
2. Clear the DTC with the HDS.
3. Test-drive at a steady speed between 19–38 mph (30–60 km/h) for 10 minutes.
4. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P0341 indicated?

YES—Go to step 9.

NO—Go to step 5.

5. Do the VTC TEST in the INSPECTION MENU with the HDS.

Is the result OK?

YES—Go to step 6.

NO—Go to step 9.

6. Test-drive at a steady speed between 19–38 mph (30–60 km/h) for 10 minutes.

7. Check the VTC STATUS in the DATA LIST with the HDS.

Does it indicate ON?

YES—Go to step 8.

NO—Go to step 6 and recheck.

8. Monitor the OBD STATUS for DTC P0341 in the DTCs MENU with the HDS.

Does the screen indicate FAILED?

YES—Go to step 9.

NO—If the screen indicates PASSED, intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the VTC oil control solenoid valve and the ECM/PCM. If the screen indicates NOT COMPLETED, go to step 6 and recheck.

9. Turn the ignition switch OFF.
10. Test the VTC oil control solenoid valve (see page 11-300).

Is the VTC oil control solenoid valve OK?

YES—Go to step 11.

NO—Replace the VTC oil control solenoid valve (see page 11-300), then go to step 14.

11. Check the camshaft timing (see step 1 on page 6-16).

Is the camshaft timing OK?

YES—Go to step 12.

NO—Reset the camshaft timing (see page 6-16), then go to step 14.

12. Check for damage or stretch at the cam chain (see page 6-3).

Is the cam chain damaged or stretched?

YES—Replace the cam chain and tensioner (see page 6-13), then go to step 14.

NO—Go to step 13.

(cont'd)

DTC Troubleshooting (cont'd)

13. Inspect the VTC actuator (see page 6-8).

Is the actuator OK?

YES—Go to step 14.

NO—Replace the VTC actuator (see page 6-31), then go to step 14.

14. Turn the ignition switch ON (II).

15. Reset the ECM/PCM with the HDS.

16. Clear the CKP pattern with the HDS.

17. Do the ECM/PCM idle learn procedure (see page 11-316).

18. Do the CKP pattern learn procedure (see page 11-5).

19. Test-drive at a steady speed between 19—38 mph (30—60 km/h) for 10 minutes.

20. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P0341 indicated?

YES—Check for poor connections or loose terminals at the VTC oil control solenoid valve and the ECM/PCM, then go to step 1.

NO—Go to step 21.

21. Monitor the OBD STATUS for DTC P0341 in the DTCs MENU with the HDS.

Does the screen indicate PASSED?

YES—Troubleshooting is complete. If any other Temporary DTCs or DTCs were indicated in step 20, go to the indicated DTC's troubleshooting. ■

NO—If the screen indicates FAILED, check for poor connections or loose terminals at the VTC oil control solenoid valve and the ECM/PCM, then go to step 1. If the screen indicates NOT COMPLETED, go to step 19.