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Document ID# 691985
2001 Chevrolet/Geo Blazer - 4WD

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CKP System Variation Learn Procedure

Important

For additional diagnostic information, refer to [DTC P1336](#).

1. Install a scan tool.
2. With a scan tool, monitor the powertrain control module (PCM) for DTCs. If other DTCs are set, except DTC P1336, refer to [Diagnostic Trouble Code \(DTC\) List](#) for the applicable DTC that set.
3. Close the vehicles hood.
4. With a scan tool, select the crankshaft position system variation learn procedure.
5. Observe the fuel cut-off for the engine that you are performing the learn procedure on.
6. The scan tool instructs you to perform the following:
 - o Apply the vehicles parking brake.
 - o Block the drive wheels.
 - o Cycle the ignition from OFF to ON.
 - o Apply and hold the brake pedal.
 - o Start and idle the engine.
 - o Turn OFF the A/C.
 - o Place the vehicles transmission in Park (A/T) or Neutral (M/T).
 - o The scan tool monitors certain component signals to determine if all the conditions are met to continue with the procedure. The scan tool only displays the condition that inhibits the procedure. The scan tool monitors the following components:
 - Crankshaft position (CKP) sensor activity. If there is a CKP sensor condition, refer to [DTC P0335](#) or [DTC P0336](#).
 - Camshaft position (CMP) sensor activity. If there is a CMP sensor condition, refer to [DTC P0341](#).
 - Engine coolant temperature (ECT)--If the engine coolant temperature is not warm enough, idle the engine until the engine coolant temperature reaches the correct temperature.
7. With the scan tool, enable the crankshaft position system variation learn procedure.

Important

While the learn procedure is in progress, release the throttle immediately when the engine starts to decelerate. The engine control is returned to the operator and the engine responds to throttle position after the learn procedure is complete.

8. Slowly increase the engine speed to the RPM that you observed.
9. Immediately release the throttle when fuel cutoff is reached.
10. The scan tool displays Learn Status: Learned this ignition. If the scan tool does NOT display this message and no additional DTCs set, refer to [Symptoms - Engine Mechanical](#). If a DTC set, refer to [Diagnostic Trouble Code \(DTC\) List](#) for the applicable DTC that set.
11. Turn OFF the ignition for 30 seconds after the learn procedure is completed successfully.

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