Idle Learn Procedure

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ATTENTION: Refer to the appropriate shop manual for your vehicle to obtain specific service procedures for this part. If you do not have a service manual or lack the skill to install this part, it is recommended that you seek the services of a qualified technician. Pay special attention to all cautions and warnings included in the shop manual. Read and follow all instructions carefully.

Introduction

The engine control module (ECM) learns the engine's airflow through the throttle body and makes adjustments to obtain correct idle speed. These learned airflow values are stored in the ECU. After cleaning or replacing the throttle body, it may be necessary to reset these values.

Learn Procedure

1. Clear all existing vehicle codes
2. If your scan tool has the ability to access the throttle body control, perform the idle relearn reset in the module setup
   a. Start the engine and monitor the throttle body airflow compensation parameter. The value should be at 0% and the engine should be idling at normal speed.
3. If your scan tool cannot access the throttle body control, perform a manual reset.
   a. Start and idle the engine in Park for 3 minutes
   b. With a scan tool, monitor the actual engine speed
   c. The ECM will start to learn the new idle cells and the engine speed should begin to decrease
   d. Turn ignition off for 1 minute
   e. Start and idle the engine in Park for 3 minutes
   f. After the 3 minute time, the engine should be idling normal
      i. Note: During the drive cycle, the check engine light may come on with idle speed DTCs. If this happens, clear codes so the ECM can continue to learn.
      ii. If the engine idle speed has not been learned, the vehicle will need to be driven at speeds above 44 mph with several decelerations and extended idles.
   g. After the drive cycle, the engine should be idling normally
      i. If the engine speed has not been learned, turn off engine for 1 minute and repeat steps
   h. Once the engine speed has returned to normal, clear DTCs