



## MIL Comes On With DTC P2195 or P2197

(Supersedes 04-038, dated July 23, 2011, to revise the information marked with the black bars)

### REVISION SUMMARY

Under WARRANTY CLAIM INFORMATION, a flat rate time was changed.

### SYMPTOM

The MIL is on, and DTC P2195 (rear air fuel ratio sensor signal stuck lean) or P2197 (front air fuel ratio sensor signal stuck lean) is set.

### PROBABLE CAUSE

The ECM/PCM software incorrectly interprets sensor inputs, causing the codes to set.

### CORRECTIVE ACTION

Update the ECM/PCM software.

### WARRANTY CLAIM INFORMATION

The normal warranty applies.

OP#	Description	FRT
123503	Retrieve the DTC(s), and clear the codes with the HDS.	0.3
125517	Update the ECM/PCM software.	0.3
122505	Do the CKP pattern learn.	0.3

Failed Part: P/N 37820-RDA-A04

Defect Code: 07201

Symptom Code: 03203

Skill Level: Repair Technician

### REPAIR PROCEDURE

#### NOTE:

- Before you update an ECM/PCM, make sure the battery in the vehicle is fully charged.
  - To prevent ECM/PCM damage, do not operate anything electrical (audio system, brakes, A/C, power windows, moonroof, etc.) during the update.
1. If not already done, load the May 2004 or later *IN* CD onto the *IN* master terminal. Loading instructions are included with the CD.
  2. Update the ECM/PCM (refer to Service Bulletin 01-023, *Updating Control Units/Modules*).
  3. Warm up the engine to operating temperature, then shut it off.
  4. Do the ECM/PCM RESET and the CKP PATTERN CLEAR with the HDS.
  5. Do the ECM/PCM idle learn procedure:
    - Make sure all electrical items (A/C, audio, rear window defogger, lights, etc.) are off.
    - Turn the ignition switch to the ON (II) position for 30 seconds.
    - Start the engine, and let it idle (throttle closed and all electrical items off) for 10 minutes.
  6. Do the **low-rpm** CKP pattern learn:
    - Test-drive the vehicle on a level road: With the A/T in second gear, or the M/T in second or third gear, decelerate (with the throttle fully closed) from **2,500 rpm** down to **1,000 rpm**.
    - Stop the vehicle, and put the transmission into Park or Neutral. Set the parking brake. Do not turn off the ignition switch.
  7. Connect the HDS to the DLC, and check the status of PULSER F/B LEARN:
    - On the **Selection Menu**, select **PGM-FI**.
    - On the **Mode Menu**, select **Data List**.
    - Check the value of **PULSER F/B LEARN**.
    - If the value is **Completed**, go to step 7.
    - If the value is **Not Completed**, be sure the engine is at normal operating temperature (the **ECT SENSOR (1)** value is 176 or higher), and return to step 5.

8. Do the **high-rpm** CKP pattern learn:

NOTE: The low-rpm CKP pattern learn must be completed before you do the high-rpm CKP pattern learn.

- Test-drive the vehicle on a level road: With the A/T in first gear, or the M/T in first gear, decelerate (with the throttle fully closed) from **5,000 rpm** down to **3,000 rpm**.
- Stop the vehicle, and put the transmission into Park or Neutral. Set the parking brake. Do not turn off the ignition switch.

9. Connect the HDS to the DLC (if not already connected), and do this:

- On the **Selection Menu**, select **PGM-FI**.
- On the **Mode Menu**, select **Data List**.

10. Check the value of **PULSER F/B LEARN (HIGH RPM)**

- If the value is **Completed**, you are finished. Disconnect the HDS.
- If the value is **Not Completed**, be sure the engine is at normal operating temperature (the **ECT SENSOR (1)** value is 176 or higher), and repeat steps 5 thru 8.