



NUMBER: 18-015-09

GROUP: Vehicle Performance

DATE: May 9, 2009

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THE StarSCAN® FLASH FILES FOR THIS BULLETIN MUST BE RETRIEVED FROM THE INTERNET.

StarSCAN® SOFTWARE LEVEL MUST BE AT RELEASE 9.05 OR HIGHER FOR THIS BULLETIN.

StarMOBILE STANDALONE MODE OR StarMOBILE DESKTOP CLIENT MAY ALSO BE USED TO PERFORM THIS PROCEDURE.

WHENEVER A MODULE IS REPROGRAMMED, THE SOFTWARE IN THE DRBIII®; MUST BE PROGRAMMED WITH THE LATEST REVISION LEVEL AVAILABLE.

SUBJECT:

Flash: MIL Illumination Due To Diagnostic Trouble Code P0340 Or P0344

OVERVIEW:

This bulletin involves selectively erasing and reprogramming the Powertrain Control Module (PCM) with new software.

MODELS:

| | | |
|-------------|------|---|
| 2002 - 2003 | DN | Durango |
| 2002 - 2004 | (LH) | Concorde/Intrepid/Vision/LHS/New Yorker /300M |
| 2005 - 2006 | (LX) | 300/Charger/Magnum |
| 2005 - 2006 | (LE) | 300C/300C Touring |
| 2004 - 2006 | (DR) | Ram Truck |
| 2004 | (AN) | Dakota |
| 2005 - 2006 | (ND) | Dakota |
| 2005 - 2006 | (JR) | Sebring Sedan & Convertible/Stratus Sedan |
| 2006 | (PT) | Chrysler PT Cruiser |
| 2005 - 2006 | (TJ) | Wrangler |
| 2005 - 2006 | (TJ) | Wrangler (International) |

NOTE: This bulletin applies to:

- DR vehicles equipped with a 3.7L/4.7L/5.7L engine (sales code EKG, EVA, EVD, EZA or EZB)
- 2002 LH vehicles equipped with a 2.7L or 3.5L engine (sales code EER, EES, EGC, EGG, EGK or EGJ)
- 2003 and 2004 LH vehicles equipped with a 2.7L engine (sales code EER)
- LX/LE vehicles equipped with a 2.7L/3.5L or 5.7L engine (sales code EER, EGG or EZB)
- JR vehicles equipped with a 2.7L engine (sales code EEE or EER)
- TJ vehicles equipped with a 4.0L engine (sales code ERH)
- AN vehicles equipped with a 3.7L or 4.7L engine (sales code EKG or EVA)
- ND vehicles equipped with a 3.7L or 4.7L engine (sales code EKG, EVA or EVC)
- PT vehicles equipped with a 2.4L engine (sales code EDZ)
- DN vehicles equipped with a 4.7L engine (sales code EVA)

SYMPTOM/CONDITION:

The software contains the following improvements for all customers:

- A MIL illumination for P0340 - Camshaft Position Sensor Circuit - Bank 1 Sensor 1
- A MIL illumination for P0344 - Camshaft Position Sensor Intermittent - Bank 1 Sensor 1

DIAGNOSIS:

Using a Scan Tool (DRBIII® or StarSCAN®) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all engine systems are functioning as designed. If DTCs are present record them on the repair order and repair as necessary before proceeding further with this bulletin.

If the vehicle operator describes or experiences the Symptom/Condition, perform the Repair Procedure.

PARTS REQUIRED:

| Qty. | Part No. | Description |
|------|------------|--------------------------------|
| 1 | 04275086AB | Label, Authorized Modification |

SPECIAL TOOLS / EQUIPMENT REQUIRED:**VEHICLES UPDATED USING StarSCAN®**

| | |
|---------|--------------------------------------|
| NPN | Battery Charger |
| CH9401 | StarSCAN® Tool |
| CH9404D | StarSCAN® Vehicle Cable |
| CH9409 | StarSCAN® Documentation Kit |
| CH9410 | StarSCAN® Ethernet Cable, 12 ft. |
| CH9412 | StarSCAN® Software Update Device Kit |
| | TechCONNECT PC or equivalent |

VEHICLES UPDATED USING DRBIII®

| | |
|---------------|--|
| NPN | Battery Charger |
| CH2002 | General Purpose Interface Bus Cable Assembly |
| CH6000A | Scan Tool (DRBIII®) |
| CH7000A/7001A | J1962 Cable with red DRBIII® connector |
| | TechCONNECT Workstation |

REPAIR PROCEDURE - USING StarSCAN AND THE INTERNET TO RETRIEVE THE FLASH FILE:

1. Reprogram the PCM with the latest software. Follow the detailed service procedures available in DealerCONNECT/TECHCONNECT, Refer To 8 - Electrical/Electronic Control Modules/Powertrain Control Module - Standard Procedure PCM/ECM Programming - Gas.
2. Type the necessary information on the "Authorized Modification Label" p/n 04275086AB and attach it near the VECI label.

REPAIR PROCEDURE FOR DOMESTIC VEHICLES USING DRBIII® AND DOWNLOADING THE FLASH FILE FROM DealerCONNECT:

NOTE: Whenever a module is reprogrammed, the software in the DRBIII®; must be programmed with the latest revision level available.

NOTE: If this flash process is interrupted/aborted, the flash process should be restarted and then follow the directions on the DRBIII®.

1. Before beginning the flash procedure, remove any old flash files from the DRBIII® memory. To clear the memory from the MAIN MENU:
 - a. Simultaneously press the "MORE" and "YES" keys.
 - b. A screen will appear requesting a "COLD BOOT".
 - c. Follow the on screen instructions by selecting the "F4" key.
 - d. When the DRBIII® reboots to the MAIN MENU, proceed to [Step #2](#)
2. With the ignition switch in the "RUN" position, determine the original part number of the PCM currently in the vehicle. Using the DRBIII® select:
 - a. "DRBIII® Standalone".
 - b. "1998 - 2005 Diagnostics".
 - c. "All (Except Below)".
 - d. "Engine".
 - e. "Module Display".
 - f. Record the "PCM part #" on the repair order for later reference.
3. Connect the DRBIII® to TechCONNECT. Open TechTOOLS and verify that the "DRBIII® Status: Connected" message is in the upper right corner of the TechTOOLS screen.
4. Enter the "PCM part #" recorded in [Step #2](#) in the "Parts Criteria" area and select "Show Updates". TechTOOLS will populate the appropriate flash file.
5. Select the flash file.
6. Select the "DRBIII" radio button which is next to the "Download/Update" button.
7. Select the "Download/Update" button.
8. Monitor the "Flash Download/Update Progress" window on the TechCONNECT and follow the instructions on TechCONNECT. When the flash process is complete, proceed to [Step #9](#).
9. **Disconnect the DRBIII® from TechCONNECT.**

10. Open the hood, install a battery charger and verify that the charging rate provides approximately 13.5 volts.
11. Connect the DRBIII® to the vehicle.
12. Download the flash file from the DRBIII® to the vehicle. Using the DRBIII® select:
 - a. "Vehicle Flash".
 - b. Follow the directions on the DRBIII® screen. When the flash process is complete, proceed to the next step.
13. Reset the "Pinion Factor" as necessary.
14. Perform the transmission Quick Learn Procedure as necessary.

NOTE: Due to the PCM programming procedure, a DTC may be set in other modules (TCM, BCM, MIC, SKIM, etc.) within the vehicle, if so equipped. Some DTC's may cause the MIL to illuminate. Check all modules using "Module Scan", record the DTC's, and erase these DTC's prior to returning the vehicle to the customer. Erase any DTC's in the PCM only after all other modules have had their DTC's erased.

NOTE: The following step is required by law.

15. Type the necessary information on the "Authorized Modification Label" p/n 04275086AB and attach near the VECI label.

***REPAIR PROCEDURE FOR EXPORT VEHICLES USING DRBIII® AND
DOWNLOADING THE FLASH FILE FROM DealerCONNECT:***

NOTE: Whenever a controller is programmed, the software in the DRBIII®; must be programmed with the latest revision level available.

NOTE: If this flash process is interrupted/aborted, the flash should be restarted and then follow the directions on the DRBIII®.

1. Before beginning the reprogramming procedure, remove any old flash reprogramming files from the DRBIII® memory. To clear the memory from the MAIN MENU:
 - a. Simultaneously press the "MORE" and "YES" keys.
 - b. A screen will appear requesting a "COLD BOOT".
 - c. Follow the on screen instructions by selecting the "F4" key.
 - d. When the DRBIII® reboots to the MAIN MENU, proceed to [Step #2](#)
2. With the ignition switch in the "RUN" position, determine the original part number of the PCM currently in the vehicle. Using the DRBIII® select:
 - a. "DRBIII® Standalone"
 - b. "1998 - 2006 Diagnostics"
 - c. "All (Except Below)"
 - d. "Engine"
 - e. "Module Display"
 - f. Record the "PCM part #" on the repair order for later reference.
 - g. Disconnect the DRBIII® from the vehicle.
 - h. Connect the DRBIII® to the ITIL/ISIS PC and NULL modem cable.
3. Log into DealerCONNECT. Proceed to: Service / Repair - Flash.
4. Select vehicle Year, Model, and Engine (YME). Then select the "Submit" button at the bottom of the screen.
5. Compare the calibration part number available for flash reprogramming to the module part number recorded earlier. Select the new calibration if applicable.

6. Download the new calibration to the PC.
7. Using the "DRBIII - WINFLASH II" application on the PC, download the flash calibration file to the DRBIII® from the PC.
8. **Disconnect the DRBIII® from the PC and NULL modem cable.**
9. Open the hood, install a battery charger and verify that charging rate provides approximately 13.5 volts.
10. Connect the DRBIII® to the vehicle.
11. Turn the ignition switch to the "Run" position (engine not running).
12. Reprogram the PCM by downloading the flash from the DRBIII® to the vehicle. Using the DRBIII® select:
 - a. "Vehicle Flash"
 - b. Follow the directions on the DRBIII® screen. When the flash process is complete, proceed to the next step.
13. Reset the "Pinion Factor" if necessary.
14. Perform the transmission Quick Learn Procedure if necessary.
15. Update the Sentry Key Immobilizer Module (SKIM) or Sentry Key Remote Entry Module (SKREEM), Secret Key data if necessary.

NOTE: Due to the PCM programming procedure, a DTC may be set in other modules (TCM, BCM, MIC, SKIM, etc.) within the vehicle, if so equipped. Some DTC's may cause the MIL to illuminate. Check all modules using "Module Scan", record the DTC's, and erase these DTC's prior to returning the vehicle to the customer. Erase any DTC's in the PCM only after all other modules have had their DTC's erased.

NOTE: The following step is required by law when reprogramming a PCM and/or TCM.

16. Type the necessary information on the "Authorized Software Update" label, p/n 04275086AB and attach near the VECI label.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

| Labor Operation No: | Description | Amount |
|---------------------|--|--|
| 18-19-06-F8 | Module, Powertrain Control (PCM) - Reprogram (B) | 0.4 Hrs. LX, LE, ND, PT, JR, 2006 DR Bodies |
| | | 0.5 Hrs. DN, LH, TJ AN, 2004 and 2005 DR Bodies |

FAILURE CODE:

| | |
|----|----------------|
| ZZ | Service Action |
|----|----------------|