



# SERVICE BULLETIN

**NUMBER:** 18-028-06

**GROUP:** Vehicle Performance

**DATE:** September 15, 2006

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**THE DRBIII® FLASH FILES FOR THIS BULLETIN ARE AVAILABLE ON DealerCONNECT.**

**WHILE THE FILES ARE CURRENTLY AVAILABLE FROM THE INTERNET FOR ALL MARKETS, FOR MARKETS OUTSIDE OF THE UNITED STATES AND CANADA, THE DRBIII® FLASH FILES AND REPROGRAMMING INSTRUCTIONS WILL ALSO BE AVAILABLE ON ITIL/ISIS DVD JANUARY, 2007.**

**SUBJECT:**

Flash: MIL Activation For Downstream Fuel Trim - DTC's P2096 or P2098

**OVERVIEW:**

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

**MODELS:**

2005 (TJ) Wrangler

**NOTE: This bulletin applies to TJ vehicles equipped with a 4.0L engine (sales code ERH) built on or before MMM DD, 200X (MDH MMDDXX).**

**SYMPTOM/CONDITION:**

The Malfunction Indicator Lamp (MIL) is illuminated and Diagnostic Trouble Codes (DTC's P2096 or P2098 are stored.

**DIAGNOSIS:**

Using a Scan Tool (DRBIII®) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all engine systems are functioning as designed. If DTCs other than P2096 or P2098 are present record them on the repair order and repair as necessary before proceeding further with this bulletin, then perform the Repair Procedure.

**PARTS REQUIRED:**

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

**SPECIAL TOOLS / EQUIPMENT REQUIRED:**

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

**NOTE: An updated J1962 cable has been released. This cable has a red colored connector at the DRBIII® connection. Use this cable whenever a flash is being performed.**

***REPAIR PROCEDURE USING DRBIII® AND DOWNLOADING THE FLASH FILE FROM DealerCONNECT > TechTOOLS:***

**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 - 2007 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 and install a battery charger. Using a voltmeter, verify that the charging rate provides 13.2 - 13.5 volts. Set the battery charger to continuous charge. Do not allow the charger to time out during the flash process. Remove the charger from the battery when the flash process is complete.

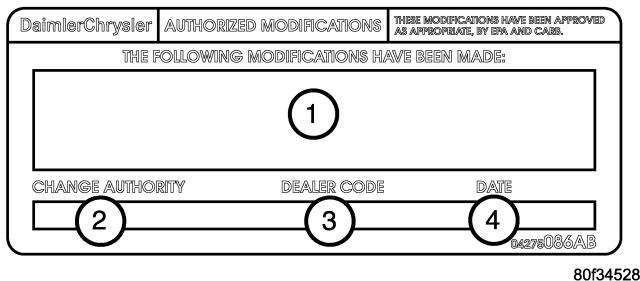
**NOTE: Do not allow the charging voltage to climb above 13.5 volts during the flash process.**

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 (Fig. 1).



**Fig. 1 AUTHORIZED MODIFICATION LABEL**

1 - POWERTRAIN CONTROL MODULE P/N (INSERT P/N) USED

2 - CHANGE AUTHORITY: TSB XX-XXX-XX

3 - DEALER CODE: XXXXX

4 - DATE: XX-XX-XX

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

| Labor Operation No: | Description                         | Amount   |
|---------------------|-------------------------------------|----------|
| 18-19-06-24         | Reprogram Powertrain Control Module | 0.5 Hrs. |

**FAILURE CODE:**

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