



**NUMBER:** 18-019-04

**GROUP:** Vehicle  
Performance

**DATE:** April 27, 2004

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**THE SOFTWARE WILL BE AVAILABLE ON TechCONNECT ON APRIL 27, 2004.**

**SUBJECT:**

Flash: 4.7L High Output (H.O.) - Cold Engine Rough Idle Or Hesitation

**OVERVIEW:**

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

**MODELS:**

2004 (WJ) Grand Cherokee (Domestic Market Only)

**NOTE: This bulletin applies to vehicles equipped with a 4.7L High Output engine (sales code EVC) and built between May 02, 2003 (MDH 0502XX) and May 16, 2004 (MDH 0516XX).**

**SYMPTOM/CONDITION:**

The customer may experience one or both of the following:

1. A rough engine idle following a cold engine start in ambient temperature of around -7° C to 32° C (20° F to 90° F).
2. A cold engine hesitation for about one minute following a cold engine start.

**DIAGNOSIS:**

Using a Scan Tool (DRBIII®) with TechCONNECT or the appropriate Diagnostic Procedures Manual, verify all engine systems are functioning as designed. If DTC's 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 one or more of the conditions described above 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	J1962 Cable with red DRBIII® connector
	TechCONNECT PC

**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:***

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

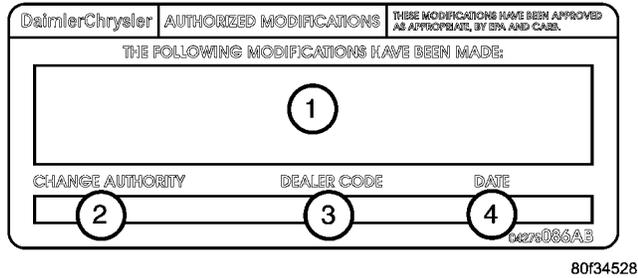
**NOTE: If this flash process is interrupted/aborted, the flash should be restarted and then follow the directions on the DRBIII®.**

1. Before beginning the reprogramming procedure, remove any old flash reprogramming files from the DRBIII® memory. To clear the memory from the MAIN MENU power up the DRBIII® and then:
  - 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 DRB III® 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 - 2004 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 calibration.
5. Select the calibration.
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 battery state is above 12.5 volts.
11. Connect the DRBIII® to the vehicle.
12. Download 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 (STEP #13).

**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.**

13. Type the necessary information on the "Authorized Modification Label" p/n 04275086AB and attach near the VECl 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
08-19-35-95	Reprogram Powertrain Control Module	0.8 Hrs.

**FAILURE CODE:**

FM	Flash Module
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