



NUMBER: 21-001-06

GROUP: Transmission

DATE: January 14, 2006

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

FOR MARKETS OUTSIDE OF THE UNITED STATES AND CANADA, THE FLASH FILES AND REPROGRAMMING INSTRUCTIONS WILL BE AVAILABLE ON ITIL/ISIS DVD MARCH, 2006.

SUBJECT:

Flash - Rough or Shudder On 1-2 Upshift

OVERVIEW:

This bulletin involves verifying the 2-4 clutch volume index is over 20 and if necessary selectively erasing and reprogramming the Powertrain Control Module (PCM) with new software and performing a TCM Quicklearn.

MODELS:

2005 (PL) Neon

NOTE: This bulletin applies to all 2005 PL vehicles equipped with a 2.0L engine (sales code ECB) and a automatic transmission (sales code DGL).

SYMPTOM/CONDITION:

Vehicle may exhibit roughness or shudder on a 1-2 upshift.

DIAGNOSIS:

Using a Scan Tool (DRBIII®) with the appropriate diagnostic procedures available on TechCONNECT, verify all transmission 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 customer describes the Symptom/Condition is present, 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

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:

1. Using the DRBIII® read the transmission sensor 2-4 CL Vol Index value. Is the index value 20 or below?
 - Yes, proceed to [Step #2](#).
 - No, this bulletin does not apply.

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®.

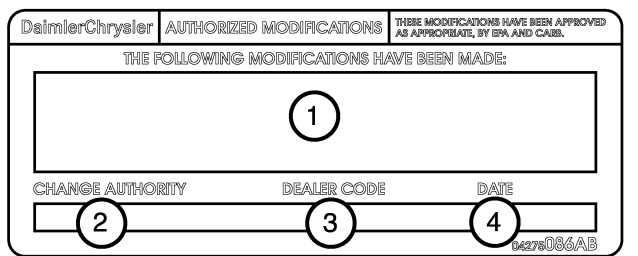
2. Before beginning the reprogramming procedure, remove any old flash reprogramming files from the DRBIII® memory. To clear the memory from the MAIN MENU:
 - a. Simultaneously press the "MORE" and "YES" keys.
 - b. A screen will appear requesting a "COLD BOOT".
 - c. Follow the on screen instructions by selecting the "F4" key.
 - d. When the DRB III® reboots to the MAIN MENU, proceed to [Step #3](#)
3. 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.
4. 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.
5. Enter the "PCM part #" recorded in [Step #3](#) in the "Parts Criteria" area and select "Show Updates". TechTOOLS will populate the appropriate calibration.

6. Select the calibration.
7. Select the "DRBIII" radio button which is next to the "Download/Update" button.
8. Select the "Download/Update" button.
9. 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 #10](#).
10. **Disconnect the DRBIII® from TechCONNECT.**
11. Open the hood, install a battery charger and verify that charging rate provides approximately 13.5 volts.
12. Connect the DRBIII® to the vehicle.
13. 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 #14](#).

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.

14. Type the necessary information on the "Authorized Modification Label" p/n 04275086AB and attach near the VECI label ([Fig. 1](#)).
15. Using the DRBIII® perform the TCM Quicklearn procedure.



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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
18-19-06-13	Reprogram Powertrain Control Module and perform Quicklearn Procedure	0.7 Hrs.

FAILURE CODE:

ZZ	Service Action
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