



NUMBER: 18-036-06

GROUP: Vehicle Performance

DATE: November 18, 2006

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

StarSCAN® UPDATE CD 6.05 WAS THE LAST CD TO CONTAIN FLASH FILES.

SUBJECT:

FLASH: Powertrain Control Module (PCM) MIL/Battery Light Illumination

OVERVIEW:

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

MODELS:

2007 (JK) Wrangler/Wrangler Unlimited

NOTE: This information applies to vehicles equipped with a 3.8 engine (sales code EGT) that were built prior to November 10, 2006 (MDH 1110XX).

SYMPTOM/CONDITION:

- # Improved diagnostics for MIL illumination due to DTC P1607 Shutdown Timer Rationality.
- # Improved diagnostics for battery light illumination due to DTC P2504 Charging System Output High.
- # Improved diagnostics for MIL illumination due to DTC P0613 Dual Port Ram.
- # Improved automatic transmission shift quality.
- # Improved idle quality with the A/C compressor on.

DIAGNOSIS:

Using a Scan Tool (StarSCAN®) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all Powertrain 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:

NPN	Battery Charger
CH9401	StarSCAN® Tool
CH9404	StarSCAN® Vehicle Cable
CH9409	StarSCAN® Documentation Kit
CH9410	StarSCAN® Ethernet Cable, 12 ft.
CH9412	StarSCAN® Software Update Device Kit
	TechCONNECT PC or equivalent

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

NOTE: When performing this Repair Procedure, the software release level in the StarSCAN® must be programmed with 7.02 SP1 level software or higher. The software release level is visible in the blue header at the top of the StarSCAN® screen.

NOTE: The StarSCAN® diagnostic scan tool fully supports Internet connectivity. However, to take advantage of this feature you must first configure the StarSCAN® for your dealership's network. Make sure the StarSCAN® is configured to the dealership's network before proceeding. For instruction on setting up your StarSCAN® for the dealer's network refer to either: "DealerCONNECT > Service > StarSCAN and StarMOBILE tools > Online Documentation", or refer to the StarSCAN® Quick Start Networking Guide. The StarSCAN® Quick Start Networking Guide is also available on the www.dcctools.com website under the "Download Center".

NOTE: If this flash process is interrupted/aborted, the flash should be restarted.

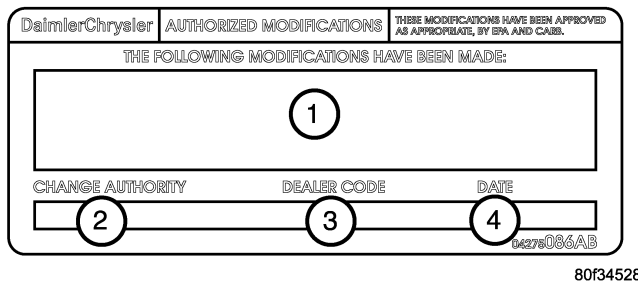
1. Install a battery charger and verify that the charging rate provides approximately 13.5 volts. Set the battery charger to continuous charge. Do not allow the charger to time out during the flash process. Remove the charger from the battery when the flash process is complete.
2. Connect the CH9410 StarSCAN® ethernet cable to the StarSCAN® and the dealer's network drop.
3. Connect the CH9404 StarSCAN® vehicle cable to the StarSCAN® and the vehicle.
4. Power ON the StarSCAN®.

5. Retrieve the old PCM part number. Using the StarSCAN® at the “Home” screen:
 - a. Select “ECU View”
 - b. Touch the screen to highlight the PCM in the list of modules.
 - c. Select “More Options”
 - d. Select “ECU Flash”
 - e. Record the part number at the top of the “Flash PCM” screen for later reference.
 - f. Select “Browse for New File”. Follow the on screen instructions.
 - g. Select “Download to Scantool”.
 - h. Select “Close” after the download is complete, then select “Back”.
 - i. Highlight the listed PCM calibration.
 - j. Select “Update Controller”. Follow on screen instructions.
 - k. When the PCM update is complete, select “OK”.
 - l. Verify the part number at the top of the “Flash PCM” screen has updated to the new part number.

NOTE: Due to the PCM programming procedure, a DTC may be set in other modules (TCM, BCM, MIC, SKREEM, etc.) within the vehicle, if so equipped. Some DTC's may cause the MIL to illuminate. From the “Home” screen select “System View”. Then select “All DTCs”. Press “Clear All Stored DTCs” if there are any DTCs shown on the list.

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

6. Type the necessary information on the “Authorized Modification Label” p/n 04275086AB and attach near the VECI label (Fig. 1).



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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
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POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Amount
18-19-06-37	Module, Powertrain Control (PCM) - Reprogram (B)	0.4 Hrs.

FAILURE CODE:

ZZ	Service Action
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