



NUMBER: 18-049-07

GROUP: Vehicle Performance

DATE: December 13, 2007

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

StarSCAN® SOFTWARE LEVEL MUST BE AT RELEASE 8.03 OR HIGHER FOR THIS BULLETIN.

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

SUBJECT:

FLASH: ESP System May Prematurely Activate Momentarily When Negotiating A Curve Or MIL Illumination Due To Diagnostic Trouble Code P0340, P0344 or P0116

OVERVIEW:

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

MODELS:

2006	(WK)	Grand Cherokee
2006	(WH)	Grand Cherokee (International Markets)
2006	(XK)	Commander
2006	(XH)	Commander (International Markets)
2006	(KJ)	Liberty

NOTE: This bulletin applies to the above listed vehicles equipped with a 3.7L or 4.7L engine (sales code EKG or EVA).

SYMPTOM/CONDITION:

The customer may experience a premature and momentary activation of the Electronic Stability Program (ESP) system. The premature activation of the ESP system may or may not be accompanied with the illumination of the ESP indicator lamp located in the instrument cluster. The customer may experience the momentary ESP system activation on a "clover leaf" type turn, at speeds of approximately 25 to 40 MPH (40 to 64 KPH). This could also be described as a lack of throttle response or hesitation. Driving over speed bumps at a slight angle can also cause the same ESP event accompanied by lack of throttle response. The customer may also complain of low idle speed.



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The customer may also experience MIL for one of the following Diagnostic Trouble Code:

- i. P0340 - Camshaft Position Sensor Circuit - Bank 1 Sensor 1
- ii. P0344 - Camshaft Position Sensor Intermittent - Bank 1 Sensor 1
- iii. P0116 - Engine Coolant Temperature Sensor Performance

DIAGNOSIS:

Using a Scan Tool (StarSCAN®) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all engine systems are functioning as designed. If other 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 the Symptom/Condition, perform the Repair Procedure. If the PCM software is up to date and the above mentioned DTC's are present then further diagnosis is required.

PARTS REQUIRED:

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

SPECIAL TOOLS / EQUIPMENT REQUIRED:

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

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

NOTE: Before performing this Repair Procedure, the operating software in the StarSCAN® must be programmed with software release level 8.03 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. Open the hood and install a battery charger. Using a voltmeter, verify that the charging rate provides 13.0 - 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.

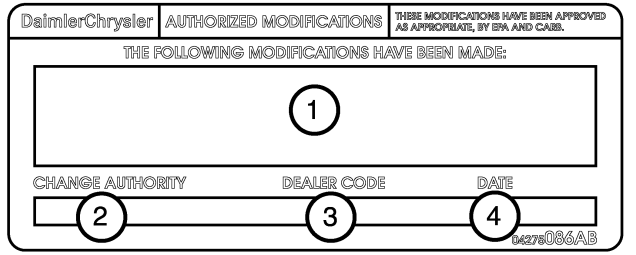
NOTE: Do not allow the charging voltage to climb above 13.5 volts during the flash process.

2. Connect the CH9410 StarSCAN® ethernet cable to the StarSCAN® and the dealer's network drop.
3. Connect the CH9404D StarSCAN® vehicle cable to the StarSCAN® and the vehicle.
4. Power ON the StarSCAN®.
5. Turn the ignition switch to the run position.
6. 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 calibration.
 - j. Select "Update Controller".
 - k. When the update is complete, select "OK".
7. 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 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.

8. 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

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Amount
18-19-06-A7	Module, Powertrain Control (PCM) - Reprogram (B)	0.4 Hrs.

FAILURE CODE:

ZZ	Service Action
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