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GROUP: Transmission and Transfer Case
DATE: March 08, 2012

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HELP USING THE wiTECH DIAGNOSTIC APPLICATION FOR FLASHING AN ECU IS AVAILABLE BY SELECTING "HELP" THEN "HELP CONTENTS" AT THE TOP OF THE wiTECH DIAGNOSTIC APPLICATION WINDOW.

THE wiTECH SOFTWARE LEVEL MUST BE AT RELEASE 12.02 OR HIGHER TO PERFORM THIS PROCEDURE.

SUBJECT:

Flash: Launch Shudder And/Or MIL Illumination And/Or Harsh Shifts With Transmission Operation Improvements

OVERVIEW:

This bulletin involves flash reprogramming the Transmission Control Module (TCM) and the Powertrain Control Module (PCM) with new software.

NOTE: Both modules must be updated for all changes to be implemented. Refer to the "Symptoms/Conditions" for a detailed description of the changes.

MODELS:

2012	(LD)	Charger
2012	(LX)	300

NOTE: This Service Bulletin applies to vehicles built with 3.6L engine (sales code ERB) with a 8 speed automatic transmission (sales code DFG) built before January 17, 2012 (MDH 0117XX).

SYMPTOM/CONDITION:

Some customers may experience transmission shift, engagement, shudder or operation concerns. Refer to Transmission section below for details. Customers may also notice a MIL illumination. Upon further investigation by the Technician any of the following DTC's may be set:

MIL

- i. P0441 - Evap Purge System Performance.
- ii. P0420 - Catalyst Efficiency (Bank 1).
- iii. P0430 - Catalyst Efficiency (Bank2).
- iv. P0133 - O2 Sensor 1/1 Slow Response.

- v. P0153 - O2 Sensor 2/1 Slow Response.
- vi. P0300 - Multiple Cylinder Misfire.
- vii. P0301 - Cylinder 1 Misfire.
- viii. P0302 - Cylinder 2 Misfire.
- ix. P0303 - Cylinder 3 Misfire.
- x. P0304 - Cylinder 4 Misfire.
- xi. P0305 - Cylinder 5 Misfire.
- xii. P0306 - Cylinder 6 Misfire.
- xiii. P113D - O2 Sensor 1/1 Slow Response (High Frequency).
- xiv. P113E - O2 Sensor 2/1 Slow Response (High Frequency).
- xv. P0128 - Thermostat Rationality.

Transmission:

- i. Paddle shifting stops working until ignition is cycled. This can happen with a lot of aggressive paddle shifting in low gears. The transmission calculates the clutches are getting hot and will disable paddle shifting until key off event. The software has been changed to bring back the paddle shifting function as soon as clutch temperatures are reduced. The cluster will also provide a message to the driver that informs them the paddle function is disabled.
- ii. Vehicle will not stay in Sport mode. This happens whenever the vehicle is shifted out of drive. The updated software keeps the vehicle in sport mode until the driver deselects the sport mode or the ignition is cycled.
- iii. Launch shudder. This condition happens when the vehicle is started and immediately shifted in drive and 15% or more throttle is applied.
- iv. 1 - 2 or 2 - 3 upshift bump in cold temperatures between -22° F (-30° C) and 50° F (10° C).
- v. 2 - 3 upshift bump. This condition occurs when the driver lifts their foot off the accelerator pedal right before the transmission perform the 2 - 3 upshift.
- vi. 3 - 2 downshift bump. This condition happens during light braking or coasting down with no throttle input.
- vii. 7 - 6 downshift bump. This condition happens during light braking or coasting down with no throttle input.

DIAGNOSIS:

Using a Scan Tool (wiTECH™) with the appropriate Diagnostic Procedures available in TechCONNECT, verify no Diagnostic Trouble Codes (DTC's) are set. If DTC's are present record them on the repair order and repair as necessary before proceeding further with this bulletin.

If the above condition is present, perform the Repair Procedure.

PARTS REQUIRED:

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

REPAIR PROCEDURE:

NOTE: Both modules must be updated for all changes to be implemented. Refer to the "Symptoms/Conditions" for a detailed description of the changes.

NOTE: Install a battery charger to ensure battery voltage does not drop below 13.2 volts. Do not allow the charging voltage to climb above 13.5 volts during the flash process.

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

1. Reprogram the PCM with the latest software. Help using the wiTECH diagnostic application for flashing an ECU is available by selecting "help" then "help contents" at the top of the wiTECH diagnostic application window.
2. Reprogram the TCM with the latest software. Help using the wiTECH diagnostic application for flashing an ECU is available by selecting "help" then "help contents" at the top of the wiTECH diagnostic application window.
3. **After PCM and TCM reprogramming**, Clear any DTC's that may have been set in other modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow the tech to clear them.
4. Type the necessary information on the "Authorized Modification Label" and attach it near the VECI label.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Amount
18-19-06-Q9	Module, Powertrain & Transmission Control (PCM & TCM) - Reprogram (Skill Level = C; Training Level = 2)	0.3 Hrs.

FAILURE CODE:

FM	Flash Module
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