



NUMBER: 21-028-14

GROUP: Transmission and Transfer Case

DATE: September 17, 2014

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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 15.01 OR HIGHER TO PERFORM THIS PROCEDURE.

SUBJECT:

Flash: Transmission Shift Enhancements

OVERVIEW:

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

MODELS:

2013	(LD)	Charger
2013	(LX)	300

NOTE: This bulletin applies to vehicles equipped with the WA580 Automatic Transmission (Sales Codes DGJ).

SYMPTOM/CONDITION:

The following Transmission Control Module (TCM) calibration improvements are available for vehicles equipped with WA580 Automatic Transmission (Sales Code DGJ) and are broken down per engine application.

3.6L Engine

- Hanging in gear during HOT ambient temperature conditions and high engine loads.
- Excessive pedal needed to downshift in high altitudes (i.e. passing).
- Poor shift quality, or high transmission temperatures during track or sport driving.

5.7L Engine

- Hanging in gear at high engine speeds during aggressive driving.
- Gear shift point enhancements during high load or race track driving.
- Excessive pedal needed to downshift in high altitudes (i.e. passing).
- Poor shift quality or high transmission temperatures during track or sport driving.
- Improved acceleration response from speeds greater than 36 Mph (58 Kph) (Japan Market Only).
- Bump sensation felt during deceleration or braking.

6.4L Engine

- Bump sensation felt during deceleration or braking.
- Inconsistent downshift during Wide Open Throttle (WOT) accelerations at highway speeds (i.e. passing).
- Transmission enhancements to improve acceleration while in reverse going uphill on steep grades.

3.0L Engine (LX Only)

- Erratic excessive shifting during low speed, light pedal driving.

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available, verify all vehicle systems are functioning correctly. If any DTCs are present, record them on the repair order and repair as necessary before proceeding further with this bulletin.

If any of the above conditions are present, perform the Repair Procedure.

REPAIR PROCEDURE:

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 TCM with the latest software available. Instructions for flashing modules using the wiTECH Diagnostic Application are available by selecting the "HELP" tab on the upper portion of the wiTECH window, then "HELP CONTENTS." This will open the Welcome to wiTECH Help screen where help topics can be selected.
2. Clear any DTCs 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.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-05-H9	Module, Transmission Control (TCM) - Reprogram (1 - Semi-Skilled)	2 - Automatic Transmission	0.2 Hrs.

FAILURE CODE:

FM	Flash Module
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