



**NUMBER:** 21-039-14

**GROUP:** Transmission and Transfer Case

**DATE:** November 25, 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 15.02 OR HIGHER TO PERFORM THIS PROCEDURE.**

**SUBJECT:**

Flash: Transmission Shift Enhancements

**OVERVIEW:**

This bulletin involves reprogramming of the Transmission Control Module (TCM) with the latest available software.

**MODELS:**

2015                      (WK)                      Jeep Grand Cherokee

**NOTE: This bulletin applies to vehicles equipped with the following options:**

- Vehicles equipped with a 3.0L gas engine (sales code EHD) and equipped with the 845RE 8 speed transmission (sales code DFL) built on or after July 23, 2014 (MDH 0723XX) and built on or before October 17, 2014 (MDH 1017XX).
- Vehicles equipped with a 3.6L gas engine (sales code ERB) and equipped with the 845RE 8 speed transmission (sales code DFL) built on or after July 21, 2014 (MDH 0721XX) and built on or before October 17, 2014 (MDH 1017XX).
- Vehicles equipped with a 5.7L gas engine (sales code EZH) and equipped with the 8HP70 8 speed transmission (sales code DFD) or (sales code DFK) built on or after July 21, 2014 (MDH 0721XX) and built on or before October 17, 2014 (MDH 1017XX).

***SYMPTOM/CONDITION:***

The following TCM calibration improvements are available for vehicles equipped with the 845RE 8 speed transmission (sales code DFL) or 8HP70 8 speed transmission (sales code DFD or DFK). These improvements are listed per engine application.

**3.0L gas engine (sales code EHD)**

- Improved upshift timing.
- Improved torque converter engagement.
- Improved shift timing during tow mode operation.
- Improved shift points during aggressive driving.
- Calibration improvement to correct bump feel during 2-1 downshift.
- Improved shift timing while in snow, base, and hill modes.

**3.6L gas engine (sales code ERB)**

- Improved 4-3 and 3-2 downshifts.
- Improved shift timing at higher altitudes.
- Improved shift timing while in sand mode.
- Calibration improvement for multi-gear downshift timing during passing maneuvers.
- Calibration improvement for intermittent delayed upshift.

**5.7L gas engine (sales code EZH)**

- Improved upshift timing in eco, base, and hill modes and while using cruise.
- Improved 8-7, 3-2, and 2-1 downshift timing
- Improved shift timing at higher altitudes.
- Improved torque converter engagement.

***DIAGNOSIS:***

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

If the customer comes in with a shift quality concern, 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. Using the wiTECH, reprogram the TCM with the latest software. Detailed instructions for flashing control 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 any modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow the tech to clear them.

**NOTE: DO NOT CLEAR THE SHIFT ADAPTIVES IN THE TCM'S MEMORY. THIS ACTION MAY CAUSE THE TRANSMISSION TO NOT SHIFT SMOOTHLY UNTIL THE ADAPTIVES ARE RE-LEARNED.**

***POLICY:***

Reimbursable within the provisions of the warranty.

***TIME ALLOWANCE:***

<b>Labor Operation No:</b>	<b>Description</b>	<b>Skill Category</b>	<b>Amount</b>
18-19-05-X9	Module, Transmission Control (TCM) - Reflash - (0 - Introduction)	2- Automatic Transmission	0.2 Hrs.

**NOTE: The expected completion time for the flash download is approximately 2 minutes. Actual flash download times may be affected by vehicle connection and network capabilities.**

***FAILURE CODE:***

FM	Flash Module
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