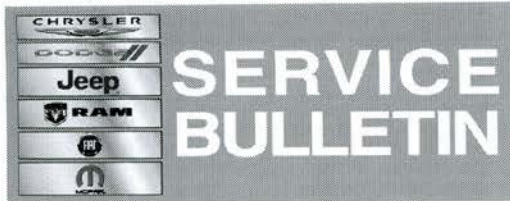


# SB-10055415-8958



**NUMBER:** 21-014-13

**GROUP:** Transmission and Transfer Case

**DATE:** December 19, 2013

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**THE wiTECH SOFTWARE LEVEL MUST BE AT RELEASE 14.01 OR HIGHER TO PERFORM THIS PROCEDURE.**

**SUBJECT:**

Flash: Transmission Diagnostic and Shift Enhancements

**OVERVIEW:**

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

**NOTE: The Adaptation Learn Procedure must be performed following every TCM flash update. The Adaptation Learn Procedure is outlined in TSB 21-013-13. Failure to do so WILL result in undesirable shift quality.**

**MODELS:**

2014 KL Cherokee

**NOTE: This bulletin applies to vehicles equipped with a 948TE 9-Speed transmission (sales code DFJ or DFH) built on or before December 16, 2013 (MDH 1216XX).**

**SYMPTOM/CONDITION:**

Diagnostic Trouble Code (DTC) robustness improvements are included in this software release. These improvements apply to the following DTC's:

- P072F- Stuck in Gear 4
- P076F- Gear 7 shift incorrect ratio
- P0810- Clutch position control error
- P1CC9- Unable to engage gear
- P0734- Gear 4 shift incorrect ratio
- P061B- Internal control module torque calculation performance

Some customers may experience any or all of the following transmission shift concerns.

- Inconsistent and/or harsh 1-2 upshifts.
- Inconsistent and/or harsh 2-3 upshifts.

**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 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. Using the wiTECH, 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.
2. 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.
3. Perform TSB 21-013-13.
4. Verify no DTC's are set after completion of Step 3.

**NOTE: The Adaptation Learn Procedure must be performed following every TCM flash update. The Adaptation Learn Procedure is outlined in TSB 21-013-13. Failure to do so WILL result in undesirable shift quality.**

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

Labor Operation No:	Description	Skill Category	Amount
18-19-05-9K	Module, Transmission Control (TCM) - Reflash - (1 - Semi-Skilled)	2- Automatic Transmission	0.2 Hrs.

**NOTE: The expected completion time for the flash download portion of this procedure is approximately 15 minutes. Actual flash download times may be affected by vehicle connection and network capabilities.**

FM	Flash Module
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**NOTE: When performing the Adaptation Drive Learn, use LOP 08190595 OR 08190596 depending on the results of the Subjective Measurement evaluation.**

<b>Related Operation No:</b>	<b>Description</b>	<b>Skill Category</b>	<b>Amount</b>
08-19-05-95	Adaptation Drive Learn - Determining Shift Quality Subjective Measurement, (2 -Skilled)	2- Automatic Transmission	0.4 Hrs.
08-19-05-96	Adaptation Drive Learn - Determining Shift Quality Subjective Measurement and Learn - B, C, and D Clutches (2 -Skilled)	2- Automatic Transmission	0.9 Hrs.
95-21-44-02	Adaptation Drive Learn - Determining Shift Quality Subjective Measurement - Porters Time Flat Fee Allowance		\$20.00
95-14-01-02	Adaptation Drive Learn -Fuel Allowance		\$8.00
<b>Optional Operation No:</b>			
08-19-05-97	Adaptation Drive Learn - E Clutch, Determining Shift Quality Subjective Measurement (2 -Skilled)	2- Automatic Transmission	0.4 Hrs.