SERVICE BULLETIN

THIS BULLETIN SUPERSEDES SERVICE BULLETIN 21-021-15 REV. B DATED JUNE 20, 2015 WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE MARKED WITH **ASTERISKS** AND INCLUDES ADDITIONAL SYSTEM ENHANCEMENTS FOR KL 2.4L, VEHICLE CLEAN DATES, AND LABOR OPS.

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 IS REQUIRED TO BE AT THE LATEST RELEASE BEFORE PERFORMING THIS PROCEDURE.

SUBJECT:
Flash: Transmission Diagnostic And Shift Enhancements

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

MODELS:

2015	(KL)	Jeep Cherokee
2015	(UF)	Chrysler 200

NOTE: This bulletin applies to the following vehicles:
- ****KL vehicles built on or before July 16, 2015 (MDH 0716XX) equipped with a 2.4L Engine (Sales Code ED6) and a 948TE 9 speed automatic transmission (Sales Code DFH or DFJ).****
- **KL vehicles built on or before February 16, 2015 (MDH 0216XX) equipped with a 2.4L engine (sales code ED8) and a 948TE 9 speed automatic transmission (sales code DFH or DFJ).**
- **KL vehicles built on or before May 04, 2015 (MDH 0504XX) equipped with a 3.2L Engine (Sales Code EHB) and a 948TE 9 speed automatic transmission (Sales Code DFH or DFJ).**
- **UF vehicles built on or before February 28, 2015 (MDH 0228XX) equipped with a 2.4L Engine (Sales Code ED6, ED8, EDD, or EDE) and a 948TE 9 speed automatic transmission (sales code DFH).**
- **UF vehicles built on or before November 11, 2014 (MDH 1111XX) equipped with 3.6L Engine (Sales Code ERB) and a 9HP48 9 speed automatic transmission (Sales Code DF5).**

SYMPTOM/CONDITION:
A small number of customers may experience a Malfunction Indicator Lamp (MIL) illumination and/or one of the following conditions. Upon further investigation, a technician may find one or more of the following Diagnostic Trouble Codes (DTCs) stored in the TCM memory.

2015 KL Vehicles

- **When driving on grades, the 3-2 downshift is hard to achieve or not available (ED6).**
- **P0711-00 - Transmission Fluid Temperature Sensor A Circuit Range-Performance (ED6).**
- P0887-00 - TCM Power Control Circuit High.
- U0401-00 - Implausible Data Received From ECM/PCM.
- P1DAD - Input Shaft-Output Shaft Direction Correlation.

2015 UF Vehicles

- P0711-00 - Transmission Fluid Temperature Sensor A Circuit Range-Performance.
- P0887-00 - TCM Power Control Circuit High.
- U0401-00 - Implausible Data Received From ECM/PCM.
- P1DAD - Input Shaft-Output Shaft Direction Correlation.

This TCM calibration update being released also enables the new wiTECH based "Transmission Quick Learn" procedure to be performed anytime the transmission adaptation memory cells are cleared or when addressing customer concerns of poor shift quality. It is also being released to improve transmission downshift response time during normal driving.

DIAGNOSIS:
Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all vehicle systems are functioning as designed. If DTCs or symptom conditions, other than the ones listed above are present, record the issues on the repair order and repair as necessary before proceeding further with this bulletin.

If the customer describes the symptom/condition listed above or if the technician finds the DTC, 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 available 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. Using wiTECH, Perform the TCM "VIN Verification" routine Located in the TCM "Misc Functions" menu and follow the on-screen prompts.
3. Using wiTECH, perform a "PROXI Configuration Alignment" routine located in the "Vehicle Preparations" tab on the main vehicle view screen.

4. Turn the ignition off and disconnect wiTECH for 1 minute.
5. Turn the ignition back on and reconnect wiTECH.
6. From the vehicle view screen, select "PROXI Configuration Alignment" routine again in the "Vehicle Preparations" tab and verify all modules are properly aligned.
7. Clear all DTCs that may have been set in any module due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared. Proceed to Step #8.

CAUTION: The Powertrain Control Module must be updated to the latest available software to allow the quick learn procedure to function. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding updating the PCM software.

NOTE: This flash will clear the transmission adaptive values which requires the "Transmission Quick Learn" procedure to be performed.

8. Start the engine and monitor the transmission temperature on the Electronic Vehicle Information Center (EVIC).
9. With the vehicle located in a suitable area, allow the transmission to warm up to minimum of 60°C (140°F) by performing the following steps:
   a. Apply the service brake.
   b. Shift Transmission from Park to Reverse.
   c. Shift Transmission from Reverse to Drive.
   d. Accelerate the vehicle to minimum of 45 mph to allow the transmission to cycle through each gear.
   e. Continue to drive the vehicle until the transmission temperature reaches 60°C (140°F).

NOTE: If the vehicle is equipped with the start/stop feature (sales code XBU) it must be disabled prior to performing this procedure. To disable, press the on/off switch located on the center switch bank near the HVAC controls.

10. Connect wiTECH diagnostic scan too to the vehicle.
11. Check for active TCM DTCs. Do not perform the Quick Learn procedure if TCM DTCs are present. Repair transmission as required.
12. Select the TCM module in wiTECH.
13. Select the "Misc Functions" tab.

NOTE: If the "Quick Learn" option does not appear on wiTECH and both the TCM and PCM were just updated, restart the wiTECH application which should now be populated with the "Quick Learn" option.

14. Select the "Quick Learn" procedure, and follow the on-screen instructions to reset and learn the clutch adaptive values.
15. Shift the transmission into Park and shut off the engine. The procedure is now complete.

POLICY:
Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-05-BS	Module, Transmission Control-(TCM) - Reprogram and perform Transmission Quick Learn (1 - Semi Skilled)	2 - Automatic Transmission	0.7 Hrs

NOTE: The expected completion time for the flash download portion of this procedure is approximately 4 minutes. Actual flash download times may be affected by vehicle connection and network capabilities.

FAILURE CODE:
The dealer must choose which failure code to use. If the customer came in with an issue and the dealer found updated software to correct that issue, use failure code CC, for all other use failure code RF.

- If the customer's concern matches the SYMPTOM/CONDITION identified in the Service Bulletin, than failure code CC is to be used.
- If an available flash is completed while addressing a different customer concern, failure code RF is to be used.

CC	Customer Concern
RF	Routine Flash