



NUMBER: 21-001-18 REV. C

GROUP: 21 - Transmission and Transfer Case

DATE: December 19, 2018

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2.4L UF vehicles equipped with Adaptive Cruise Control (NHZ) with SYMPTOMS/CONDITIONS related to this Bulletin are included within Recall U63. Please verify the Powertrain Control Module (PCM) and Transmission Control Module (TCM) part numbers are at latest level by following the U63 service action.

2.4L KL equipped with Adaptive Cruise Control (NHZ) or Selec-Speed™ Control (BNK) with SYMPTOMS/CONDITIONS related to this Bulletin are included within Recall U63. Please verify the Powertrain Control Module (PCM) and Transmission Control Module (TCM) part numbers are at latest level by following the U63 service action.

THIS BULLETIN SUPERSEDES SERVICE BULLETIN 21-001-18 REV. B, DATED JUNE 29, 2018. WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE MARKED WITH **ASTERISKS AND INCLUDE ADDITIONAL DTC FOR UF VEHICLES WITH 3.6 ENGINE AND LOP.**

THIS SERVICE BULLETIN IS ALSO BEING RELEASED AS RAPID RESPONSE TRANSMITTAL (RRT) 18-001. ALL APPLICABLE SOLD AND UN-SOLD RRT VIN's HAVE BEEN LOADED. TO VERIFY THAT THIS RRT SERVICE ACTION IS APPLICABLE TO THE VEHICLE, USE VIP OR PERFORM A VIN SEARCH IN SERVICE LIBRARY/TECHCONNECT. ALL REPAIRS ARE REIMBURSABLE WITHIN THE PROVISIONS OF WARRANTY.

SUBJECT:

Flash: Transmission Control Module (TCM) Updates

OVERVIEW:

This bulletin involves reprogramming the TCM with the latest available software.

MODELS:

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

NOTE: This bulletin applies to vehicles within the following markets/countries: NAFTA, APAC and EMEA.

NOTE: This bulletin applies to the following vehicles:

- KL vehicles equipped with a 2.4L Engine (Sales Codes ED6 or ED8) and a 948TE 9 speed automatic transmission (Sales Codes DFH or DFJ).
- KL vehicles equipped with a 3.2L Engine (Sales Code EHB) and a 948TE 9 speed automatic transmission (Sales Codes DFH or DFJ).
- UF vehicles equipped with a 2.4L Engine (Sales Codes ED6, ED8, EDD or EDE) and a 948TE 9 speed automatic transmission (Sales Code DFH).
- UF vehicles equipped with 3.6L Engine (Sales Code ERB) and a 9HP48 9 speed automatic transmission (Sales Code DF5).

SYMPTOM/CONDITION:

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 DTCs.

2015 KL Vehicles

- P1DDD-00 - TCM Monitoring Performance Unable To Disengage Drive Or Reverse (**Sales Code EHB Only**).
- P1634-00 - TCM Internal Watchdog Performance (**Sales Codes ED6 or ED8 Only**).
- U1412 - Implausible Vehicle Speed Signal Received.
- U0001 - Can C Bus.
- P0887-00 - TCM Power Control Circuit High.
- P061B-00 - Internal Control Module Torque Calculation Performance.
- U0401-00 - Implausible Data Received From ECM/PCM.
- P1DAD-00 - Input Shaft-Output Shaft Direction Correlation.
- P0711-00 - Transmission Fluid Temperature Sensor A Circuit Range-Performance (**ED6 or ED8 Only**).

In addition, some customers may experience one or more of the following conditions:

- When driving on grades, the 3-2 downshift is hard to achieve or not available.

Other enhancements included in this update:

- Garage shift improvements.
- Shift improvements for 2-1 shift quality when using Electronic Range Sensor (ERS) function for 2-1 downshift and 3-1 shift quality (bump) when coasting to a stop (**ED6 or ED8**).

2015 UF Vehicles

- P0887-00 - TCM Power Control Circuit High (**ED6, ED8, EDD, EDE or **ERB****).
- P072F-00 - Stuck In Gear 4.
- P061B-00 - Internal Control Module Torque Calculation Performance.
- P0711-00 - Transmission Fluid Temperature Sensor A Circuit Range-Performance (**ED6, ED8, EDD or EDE Only**).
- P0885-00 - TCM Power Control Circuit (**ED6, ED8, EDD or EDE Only**).
- P0975-00 - Shift Solenoid B Control Circuit Performance (**ED6, ED8, EDD or EDE Only**).
- P0978-00 - Shift Solenoid 3 Control Circuit Performance (**ED6, ED8, EDD or EDE Only**).
- P0981-00 - Shift Solenoid 4 Control Circuit Performance (**ED6, ED8, EDD or EDE Only**).
- P0984-00 - Shift Solenoid 5 Control Circuit Performance (**ED6, ED8, EDD or EDE Only**).
- P1634-00 - TCM Internal Watchdog Performance (**ERB Only**).
- U0401-00 - Implausible Data Received From ECM/PCM.
- P1DAD-00 - Input Shaft-Output Shaft Direction Correlation.

In addition, some customers may experience one or more of the following conditions:

- When driving on grades, the 3-2 downshift is hard to achieve or not available (**ED6, ED8, EDD or EDE Only**).
- 2-1 downshift and 3-1 shift quality (bump) when coasting to a stop (**ED6, ED8, EDD or EDE Only**).

Other enhancements included in this update:

- Garage shift improvements (**ED6, ED8, EDD or EDE Only**).
- Up shift improvements, 2-3, 3-4 or 4-5 (**ERB Only**).

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in Service Library/TechCONNECT, verify all related 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 a customer's VIN is listed in VIP or your RRT VIN list, perform the repair. If any vehicle not on the VIN list exhibits the symptom/condition or DTC, perform the repair.

REPAIR PROCEDURE:

NOTE: Perform the repair procedure below only on vehicles equipped with a 2.4L without Adaptive Cruise Control (NHZ) or Selec-Speed™ Control (BNK) or vehicles equipped with a 3.2L (EHB) or 3.6L (ERB). Proceed to [Step 1](#) of the 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 wiTECH, check the TCM calibration and see if it is up to date. Does the TCM software need to be updated?
 - YES >>> Proceed to [Step 1](#) of the Repair Procedure.
 - NO >>> The RRT has been completed. Use inspection LOP (18-19-05-HK) to close the active RRT.
2. Reprogram the TCM with the latest software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application's "HELP" tab.
3. Turn the ignition off and disconnect wiTECH for one minute.
4. Turn the ignition back on and reconnect wiTECH.
5. 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 7](#).

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

6. Start the engine and monitor the transmission temperature on the Electronic Vehicle Information Center (EVIC).

7. 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 the transmission from “Reverse” to “Drive”.
 - d. Accelerate the vehicle to minimum of 72 kph (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.

8. Connect wiTECH diagnostic scan tool to the vehicle.

NOTE: Do not perform the Quick Learn procedure if TCM DTCs are present. Repair the transmission as required.

9. Check for active TCM DTCs.
10. Select the TCM module in wiTECH.
11. 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.

12. Select the “Quick Learn” procedure, and follow the on-screen instructions to reset and learn the clutch adaptive values.
13. Shift the transmission into Park and shut off the engine. This bulletin has been completed.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-05-KT	Module, Transmission Control (TCM) Reprogram and Perform Transmission Quick Learn UF Vehicle (0 - Introduction)	2 - Automatic Transmission	0.6 Hrs.
18-19-05-HK	Module, Transmission Control (TCM) Inspect Only. KL Vehicle (0 - Introduction)	2 - Automatic Transmission	0.2 Hrs.
18-19-05-HL	Module, Transmission Control (TCM) Reprogram and Perform Transmission Quick Learn KL Vehicle (0 - Introduction)	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 depending on if this is a Rapid Response Transmittal (RRT) or Service Bulletin.

- The “RF” failure code is required for essential module flash/reprogramming and can only be used after confirmation that the VIN is included on the RRT.
- The failure code “RF” (Required Flash) can no longer be used on Service Bulletin flashes. **The “RF” failure code must be used on an RRT.**
- If the customer’s concern matches the SYMPTOM/CONDITION identified in the Service Bulletin, failure code CC is to be used. When utilizing this failure code, the 3C’s must be supplied.

RF	Required Flash - RRT
CC	Customer Concern