



**NUMBER:** 21-015-15

**GROUP:** Transmission and Transfer Case

**DATE:** March 04, 2015

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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 15.03 OR HIGHER TO PERFORM THIS PROCEDURE.**

**SUBJECT:**

Flash: C1499-92-RDM Motor Position C1496-92-PTU Motor Position

**OVERVIEW:**

This bulletin involves updating the software in the Power Transfer Unit (PTU), Rear Driveline Module (RDM) and Drivetrain Control Module (DTCM).

**MODELS:**

2014-2015	(KL)	Jeep Cherokee
2015	(UF)	Chrysler 200

**NOTE: This bulletin applies to vehicles built on or before December 25, 2014 (MDH 1225XX). KL vehicles equipped with Jeep Active Drive (Sales Codes DK2 or DK4). UF vehicles equipped with AWD Ride and Handling Suspension (Sales Code SDA) or AWD Sport Suspension (Sales Code SDD)**

**SYMPTOM/CONDITION:**

A customer with a (KL) vehicle may experience difficulty shifting out of 4 Wheel Low (4WL). A customer with a (UF) vehicle may experience All Wheel Drive (AWD) not operating correctly. On further inspection the Technician may find Diagnostic Trouble Codes (DTCs):

- C1499-92-RDM Motor Position - Performance or Incorrect Operation.
- C1496-92-PTU Motor Position - Performance or Incorrect Operation.

**DIAGNOSIS:**

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all of the AWD 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 PTU, RDM and the DTCM 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. Is this vehicle a KL?
  - a. Yes >>> Proceed to [Step #3](#).
  - b. No >>> Proceed to [Step #8](#).
3. Is the vehicle stuck in 4 wheel Low/Lock?
  - a. Yes >>> Proceed to [Step #4](#).
  - b. No >>> Proceed to [Step #8](#).
4. Raise the vehicle on the hoist.
5. Aggressively rotate/rock one of the rear wheels back and forth, in order to free up the axle lock shift sleeve and relieve the torque lock in the system.
6. Perform a key cycle, change the ignition position from lock to run, it is not necessary to start the engine. You should hear the motor in the rear axle actuator move while the relearn process is occurring immediately after key-on.
7. It may be necessary to repeat steps 5 and 6 multiple times in order for the relearn procedure to be successful.

**NOTE: If after multiple attempts the vehicle will not coming out of 4 Wheel Low/Lock, check for active DTC and follow normal diagnostic.**

8. Clear any 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 the DTCs to be cleared.
9. Did all of the DTCs, clear?
  - a. Yes >>> This bulletin has been completed, return the vehicle to the customer.
  - b. No >>> This bulletin has been completed, perform normal DTC diagnostics in TechConnect for any active DTC.

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

Labor Operation No:	Description	Skill Category	Amount
18-19-17-94	Module, PTU, RDM and DTCM - Reprogram (0 - Introduction)	2- Automatic Transmissio	0.3 Hrs.

**NOTE: The expected completion time for the flash download portion of this procedure is approximately 5 minutes. Actual flash download times may be affected by vehicle connection and network capabilities.**

**FAILURE CODE:**

FM	Flash Module
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