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GROUP: Emissions Control

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FOR HELP WITH USING wiTECH FOR ECU FLASH REPROGRAMMING, CLICK ON THE APPLICATION'S "HELP" TAB.

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

SUBJECT:

Flash: Dosing Control Unit Diagnostic And System Improvements

OVERVIEW:

This bulletin involves reprogramming the Dosing Control Unit (DCU) with the latest available software.

MODELS:

2017	(D2)	RAM 3500 Pickup
2017	(DJ)	RAM 2500 Pickup
2017	(DD)	RAM 3500 Cab Chassis
2017	(DP)	RAM 4500/5500 Cab Chassis
2017	(DF)	RAM 3500 <10K LB Cab Chassis

**NOTE: This bulletin applies to vehicles within the following markets/countries:
NAFTA.**

NOTE: This bulletin applies to vehicles built on or before February 22, 2017 (MDH 0222XX) equipped with 6.7L I6 Cummins Turbo Diesel Engine (Sales Code ETK) equipped with Selective Catalytic Reduction (UREA) (Sales Code XAL).

SYMPTOM/CONDITION:

Some customers may experience a Malfunction Indicator Lamp (MIL) illumination specifically in cold weather. Upon further investigation, a technician may find the following Diagnostic Trouble Code (DTC): P207F - Reductant Quality Performance.

DIAGNOSIS:

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

If a customer describes the symptom/condition listed above or if the technician finds DTCs, perform the Repair Procedure.

REPAIR PROCEDURE:

NOTE: Ensure that the Powertrain Control Module (PCM) is at the latest available software before performing this 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 for any codes setting in the PCM and record them on the repair order. If necessary, perform a vehicle scan report and save it for your records.
2. Reprogram the PCM 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. Is this vehicle equipped with the 68RFE automatic transmission?
 - a. Yes>>> Proceed to [Step #4](#).
 - b. No>>> Turn ignition key "OFF" for 75 seconds then proceed to [Step #6](#).
4. Turn ignition key "OFF" for 10 minutes.
5. Perform the transmission "Quicklearn" procedure. Follow the detailed service procedures available in DealerCONNECT/TechCONNECT, Service Info Section 08 - Electrical > 8E - Electronic Control Modules > Module, Transmission Control > Standard Procedure > Quicklearn.
6. 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.
7. Perform the PCM Configuration routine in wiTECH located in the PCM "Misc. Functions" menu tab.
8. Reprogram the DCU with the latest software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application's "HELP" tab.
9. 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.

- 10. Using wiTECH, perform another vehicle scan report.
- 11. Is the DTC P207F set active?
 - a. YES>>> Ensure that the DEF tank temperature is above 4°C (39°F) drive the vehicle for 15 minutes in an attempt to clear the fault. Proceed to [Step #12](#).
 - b. NO>>> This bulletin has been completed.
- 12. Did DTC P207F reset?
 - a. YES>>> Follow all current published service information for P207F-Reductant Quality Performance and repair as necessary.
 - b. NO>>> This bulletin has been completed.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-04-GB	Unit, Dosing Control (DCU) and Module, Powertrain Control (PCM) - Reprogram with Manual/Aisin Transmission (0 - Introduction)	10 - Diesel	0.6 Hrs.
18-19-04-GA	Unit, Dosing Control (DCU) and Module, Powertrain Control (PCM) - Reprogram with 68RFE Transmission (0 - Introduction)	10 - Diesel	0.8 Hrs.

	Related		
18-19-04-53	Test Drive - 15 Minutes to Clear DTC P207F (Requires Pre / Post Scan Reports)	10 - Diesel	0.4 Hrs.

NOTE: The expected completion time for the flash download portion of this procedure is approximately 6 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 if the dealer finds a software update 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, 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