CHRYSLER
DODGE
Jeep
RAM
SERVICE BULLETIN

NUMBER: 18-012-12

GROUP: Vehicle Performance

DATE: March 17, 2012

THIS SERVICE BULLETIN IS ALSO BEING RELEASED AS RAPID RESPONSE TRANSMITTAL (RRT) 12-018. 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 TECHCONNECT. ALL REPAIRS ARE REIMBURSABLE WITHIN THE PROVISIONS OF WARRANTY.

THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-002-11 REV. B, DATED DECEMBER 16, 2011, WHICH SHOULD BE REMOVED FROM YOUR FILES. THIS REVISION IS TO INCLUDE EFFECTED VEHICLES IN THE ABOVE MENTIONED RRT.

THE wiTECH DIAGNOSTIC APPLICATION IS THE ONLY METHOD FOR FLASHING ECUs.

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 RELEASE 12.02 OR HIGHER TO PERFORM THIS PROCEDURE.

SUBJECT:
Flash: Diagnostic and System Improvements

OVERVIEW:
This bulletin involves selectively erasing and reprogramming the Engine Control Module (ECM) with new software.

MODELS:

2011	(DJ)	Ram Pick Up (2500)
2011	(D2)	Ram Pick Up (3500)

NOTE: This bulletin applies to D2/DJ vehicles equipped with a 6.7L Cummins engine (Sales code ETJ) .

SYMPTOM/CONDITION:
Pickup trucks equipped with a 6.7L Cummins diesel have software improvements/enhancements available for the following DTC's:

- P0101 - MASS AIR FLOW SENSOR "A" CIRCUIT PERFORMANCE
- P2262 - TURBOCHARGER BOOST PRESSURE NOT DETECTED - MECHANICAL
- P2457 - EXHAUST GAS RECIRCULATION COOLING SYSTEM PERFORMANCE
- P245B - EGR COOLER BYPASS STATUS LINE INTERMITTENT
- P049D - EGR CONTROL POSITION EXCEEDED LEARNING LIMIT
- P2195 - O2 SENSOR 1/1 OUT OF RANGE HIGH
- P2196 - O2 SENSOR 1/1 OUT OF RANGE LOW
- P2002 - DIESEL PARTICULATE FILTER EFFICIENCY BELOW THRESHOLD (for high altitude failures)
- P270 - O2 SENSOR 1/2 OUT OF RANGE HIGH
- P2271 - O2 SENSOR 1/2 OUT OF RANGE LOW
- P241A - O2 SENSOR 1/1 AND 1/2 OXYGEN CONCENTRATION MISMATCH
- P2609 - INTAKE AIR HEATER SYSTEM PERFORMANCE

NOTE: Vehicles flashed to address the above codes should be driven and repair validated. If code(s) return, follow diagnostic procedures available in DealerCONNECT/TechCONNECT.

Improvements other than DTC robustness or enhancements:

- WiTech turbo hysterisis test revision.
- ScanTool may report a code as stored, even though the fault has been cleared by completing a significant number of drive cycles without a repeat occurrence.
- Active codes not always displayed correctly.
- Engine derate with IOD removed. This will help prevent turbo damage due to oil thickening in cold climate start up on new vehicles in transit.
- Enhancement to reduce shift clunk at stop.
- Other driveability enhancements.
- EGR Valve cleaning and monitoring enhancements to help reduce occurrences of P049D (wiTECH version 12.02).

Secure Bootloader software

If the Engine Control Module (ECM) does not have a calibration installed, or has an unapproved calibration installed then the ECM will be in a Read Only Memory (ROM) boot state. The ECM will have power but the lack of approved software will not allow the vehicle to be started and driven. No further diagnostics of the ECM will be available at this time. This code will be cleared and issue resolved when the ECM is updated with the correct approved calibration. Refer to the DealerCONNECT > TechCONNECT > Service Information for more detail.

DTC U1601 set outside of the dealership with a no crank (towed in), no start condition caused by unauthorized (up-rate) software will **NOT** be covered under the terms of the warranty.

DTC U1601 code may also be set when a legitimate flash is interrupted for any reason.

DIAGNOSIS:

Using a Scan Tool with the appropriate Diagnostic Procedures available in TechCONNECT, verify all engine systems are functioning as designed. If DTC's are present record them on the repair order and repair as necessary before proceeding further with this bulletin.

If the any of the above SYMPTOM/CONDITION's are present, perform the Repair Procedure.

PARTS REQUIRED:

Qty.	Part No.	Description
1	04275086AD	Label, Authorized Modification

REPAIR PROCEDURE:

NOTE: The wiTECH diagnostic application is the only method for flashing ECU's. 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.

NOTE: wiTECH may erroneously give an error message at the conclusion of the download stating the that the flash was not successful. If there is an error message after the flash has completed, first confirm that the DTC U1601 is not present and that the P/N has been updated. If so, start the engine to confirm the flash was successful. If DTC U1601 is present, OR the P/N did not update, OR the engine did not start, the flash may have been unsuccessful. Restart the flash update.

1. Reprogram the ECM with the latest software. Follow the detailed service procedures available in DealerCONNECT/TechCONNECT, Refer To Group 8 - Electrical > 8E - Electronic Control Modules > MODULE, Engine Control, Diesel > Standard Procedure > PCM/ECM Programming - DIESEL. **After PCM reprogramming has completed successfully, the following must be performed:**
   a. Power down the PCM (key off) after flash. Automatic Transmission equipped trucks must have key off for 10 minutes. Manual Transmission trucks must have key off for 75 seconds.
   b. Perform a Quicklearn procedure on Automatic Transmission equipped trucks. Follow the detailed service procedures available in DealerCONNECT/TechCONNECT, Refer To Group 28 - DTC-Based Diagnostics > MODULE, Powertrain Control (PCM), 6.7L Diesel > Standard Procedure > PCM/ECM / TCM PROGRAMMING > Quicklearn.
   c. Clear any DTC's that may have been set in other modules due to reprogramming. The wiTECH application will automatically present all DTC's after the flash and allow the tech to clear them.
2. Type the necessary information on the "Authorized Modification Label" and attach it near the VECI label.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Amount
18-19-04-9Q	Module, Engine Control (ECM) - Reprogram, Quicklearn Transmission (A/T) Vehicles **WITHOUT** Sales Code XCK (Skill Level = C; Training Level = 2)	0.7 Hrs.
18-19-04-9P	Module, Engine Control (ECM) - Reprogram, Quicklearn Transmission (A/T) Vehicles **WITH** Sales Code XCK (Skill Level = C; Training Level = 2)	0.7 Hrs.
18-19-04-9R	Module, Engine Control (ECM) - Reprogram, Manual Transmission, (Skill Level = C; Training Level = 2)	0.6 Hrs.

FAILURE CODE:

FM	Flash Module