THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-062-14 REV. A, DATED NOVEMBER 14, 2014, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISK**S** AND INCLUDES ADDITIONAL SYMPTOM CONDITIONS AND NEW 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: 6.7L Diagnostic and System Improvements

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

MODELS:
2013 (DD) Ram Chassis Cab (3500)
2013 (DP) Ram Chassis Cab (4500/5500)

NOTE: This bulletin applies to vehicles equipped with a 6.7L Cummins engine (Sales code ETK).

SYMPTOM/CONDITION:
Several software improvements are available for vehicles equipped with a Cummins 6.7L Turbo Diesel. These improvements are separated into the following categories.
WARNING:**There will be a choice between 2 calibrations. One for vehicles that utilize an ammonia sensor and one for vehicles that have had the ammonia sensor removed. Be sure to select the correct software based on vehicle configuration.

Prevent Or Reduce Unnecessary Malfunction Indicator Lamp (MIL) Illumination For The Following Diagnostic Trouble Codes (DTCs). These DTCs Are Currently Set As A One Trip Fault And Should Be A Two Trip Fault:

- P0201 - P0206 - Fuel Injector X Circuit/Open.
- P049D - EGR Control Position Exceeded Learning Limit.

These DTCs Are Currently Set As A Two Trip Fault And Should Have Been A One Trip Fault:

- U12A4 - Lost Communication With Ammonia Sensor.

Improvements To Prevent Or Reduce Unnecessary Malfunction Indicator Lamp (MIL) Illumination For:

- **P205E - (Diesel Exhaust Fluid) Reductant Tank Temperature Sensor Circuit Intermittent (setting when the block heater is plugged in).**
- U110E - Lost Ambient Temperature Message.
- P20E8 - (Diesel Exhaust Fluid) Reductant Pressure Too Low.**
- P2281 - Air Leak Between MAF and Throttle Body.
- U3017 - Control Module Timer/Clock Performance.
- U1421 - Implausible Ignition Key Off Time Received.
- P0128 - Thermostat Rationality. In cold ambient temperatures.
- P0087 - Fuel Rail Pressure Too Low.
- P2002 - Diesel Particulate Filter Efficiency Below Threshold.
- P061A - Level 2 Torque Performance.
- P0234 - Turbocharger Overboost condition.
- P026A - Charge Air Cooler Efficiency Below Threshold.
- P0299 - Manifold Pressure Sensor Out of Range Low.
- P0562 - Battery Voltage Low.
- P20EE - SCR NOX Catalyst Efficiency Below Threshold - Bank 1.
- P2201 - Aftertreatment NOX Sensor Circuit Performance - Bank 1 Sensor 1.
- P24A5 - EGR Cooler Bypass Bank 1 Control Stuck.
- P2459 - Diesel Particulate Filter Regeneration Too Frequent.
- P249E - Closed Loop SCR Reductant Injection Control At Limit - Flow Too High.

Other Updates:

- **SCR Efficiency scan tool test improvement.**
- Various Urea system calibration changes and cold weather system improvements and dosing heater thaw times.
- Various additional wiTECH data and system test additions or improvements.
- Cruise control system improvements.
- System enhancements to starter lockout feature.
- Fuel Filter Minder system calibration enhancements.
- Exhaust brake switch operation improvements.
- Charging system improvements for dual alternator applications.
- Erroneous “Service Exhaust System - see dealer” message setting with the ignition
in the “Run” position, engine not running.

- Remove MIL for DTC; P1C70 - SCR ERROR DETECTED - ENGINE DISABLED
- Wait To Start (WTS) bulb check timing improvements (1 second)
- Set PTO maximum speed to 2,000 RPM
- Allow Mobile PTO operation in neutral
- Frozen CAC Diagnostic Improvement
- WiTECH - Reset fix (PTO request on Pickup)
- WiTECH - Road Governor Speed Upper Limit adjustment
- SCR Performance Test Fix
**DIAGNOSIS:**
**Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all engine 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's, perform the Repair Procedure.**

**REPAIR PROCEDURE:**

**WARNING:** There will be a choice between 2 calibrations. One for 3 sensor configuration that utilizes an ammonia sensor and one for 2 sensor configuration for vehicles that have had the ammonia sensor removed. Be sure to select the correct software based on your configuration.

**NOTE:** **If DTC U1601 is present, the ECM P/N did not update, or the engine did not start after the flash, then the flash may have been unsuccessful. Restart the flash update.**

**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 ECM 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. After reprogramming, turn the ignition off to power down the ECM. The key must remain off for a minimum of 75 seconds.
3. 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 allows them to be cleared.

**NOTE:** If DTCs U05A5-Implausible Data Received From Ammonia Sensor or U12A4-Lost Communication With Ammonia Sensor are set after the repair then the PCM has the incorrect calibration installed. Reprogram the PCM with the correct calibration.

4. Perform the PCM Configuration routine in wiTECH located in the PCM “Misc Functions” menu tab.
5. Verify the Dosing Control Unit (DCU) software is up to date in accordance with the service procedures and labor times outlined in all applicable published service bulletins.

**POLICY:**
Reimbursable within the provisions of the warranty.
**TIME ALLOWANCE:**

<table>
<thead>
<tr>
<th>Labor Operation No:</th>
<th>Description</th>
<th>Skill Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>18-19-04-DE</strong></td>
<td>Module, Engine Control (ECM) - Reprogram, Without Ammonia Sensor, (Aisin A/T or M/T)</td>
<td>10 - DIESEL</td>
<td>0.4 Hrs.</td>
</tr>
<tr>
<td>18-19-04-DD</td>
<td>Module, Engine Control (ECM) - Reprogram, With Ammonia Sensor, (Aisin A/T or M/T)</td>
<td>10 - DIESEL</td>
<td>0.4 Hrs.**</td>
</tr>
</tbody>
</table>

**NOTE:** The expected completion time for the flash download portion of this procedure is approximately **14** 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.

<table>
<thead>
<tr>
<th>CC</th>
<th>Customer Concern</th>
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</thead>
<tbody>
<tr>
<td>RF</td>
<td>Routine Flash**</td>
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