



**NUMBER:** 18-087-16 REV. A

**GROUP:** Vehicle Performance

**DATE:** August 24, 2016

*This bulletin is supplied as technical information only and is not an authorization for repair. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise, without written permission of FCA US LLC.*

**THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-087-16, DATED JULY 20, 2016, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **\*\*ASTERISKS\*\*** AND INCLUDE ADDITIONAL VEHICLE, SALES CODE AND PARTS.**

**THIS SERVICE BULLETIN IS ALSO BEING RELEASED AS RAPID RESPONSE TRANSMITTAL (RRT) 16-073. ALL APPLICABLE UN-SOLD RRT VIN'S HAVE BEEN LOADED. TO VERIFY THAT THIS RRT SERVICE ACTION IS APPLICABLE TO THE UN-SOLD VEHICLE, USE VIP OR PERFORM A VIN SEARCH IN TECHCONNECT. ALL REPAIRS ARE REIMBURSABLE WITHIN THE PROVISIONS OF WARRANTY.**

**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:***

Engine Oil Viscosity Upgrade And Flash Enhancements

***OVERVIEW:***

This bulletin involves reprogramming the Powertrain Control Module (PCM) and the Transmission Control Module (TCM). It also involves changing the engine oil with new 5W40 engine oil and applying a sticker to the engine oil filler cap. An addendum card will need to be added in the owner's manual.

***MODELS:***

|        |      |                     |
|--------|------|---------------------|
| 2016   | (WK) | Jeep Grand Cherokee |
| **2016 | (DS) | Ram 1500 Pickup**   |

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

**NOTE: This bulletin applies to vehicles equipped with a 3.0L Diesel Engine (Sales  
Code EXF or \*\*EXN\*\*).**

**NOTE: Only perform this repair if the vehicle's VIN is listed in VIP or your RRT VIN  
list.**

***SYMPTOM/CONDITION:***

The following powertrain system improvements/enhancements are included in this software release:

- Fan calibration.
- Transmission calibration.
- Revised oil change algorithm.

***DIAGNOSIS:***

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all related systems are functioning as designed. If Diagnostic Trouble Codes (DTCs) are present, record the issues on the repair order and repair as necessary before proceeding further with this bulletin.

Only perform this repair if the vehicle's VIN is listed in VIP or your RRT VIN list.

**PARTS REQUIRED:**

| Qty.                           | Part No.  | Description   | Region      |
|--------------------------------|---|---|-------------|
| **9.5 liters (10 Qts.)<br>(DS) | 68001332PA (quart)<br>68147411PA (bulk)   | Rotella®<br>SAE 5W-40<br>Full Synthetic<br>Engine Oil<br>or equivalent                                    |             |
| 7.6 liters (8 Qts.)<br>(WK)    |   |   |             |
| 7.6 liters) (8 Qts.)<br>(WK)   | AU166240AA (5L bottle)<br>LA001208AA (20L bulk)<br>AU166241AA (209L bulk)                 | Ultra® 5W40<br>Full Synthetic<br>Engine Oil   | Australia   |
|                                | LC231021AA (1L bottle)<br>LC231022AA (4L bottle)<br>LC231020GA (209L bulk)                | Helix® Ultra<br>5W40 Full<br>Synthetic<br>Engine Oil  | China       |
|                                | SK169980AA Helix® (1L bottle)<br>SK169981AA Ultra® (1L bottle)<br>SK169982AA (200L bulk). | Helix® 5W40<br>Full Synthetic<br>Engine Oil<br>or<br>Ultra® 5W40<br>Full Synthetic<br>Engine Oil          | South Korea |
|                                | 68231015IA. Shell® (4L bottle)<br>LI231015IA Ultra® (4L bottle)                           | Shell® Ultra<br>5W40 Full<br>Synthetic<br>Engine Oil<br>or<br>Ultra® 5W40<br>Full Synthetic<br>Engine Oil | India       |

**NOTE: When using bulk oil, please use NPN for the part number to claim the exact oil quantity (Liter) for the repair. You must also enter the last 9-digits of the associated bulk oil part number into the "Part Description" field in the warranty system.**

**NOTE: One quart equals 946 mL.\*\***

**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 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.
2. Clear any DTCs that may have been set in other modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.
3. Reprogram the TCM with the latest software.

**CAUTION: Do not clear the shift adaptives in the TCM's memory. This action may cause the transmission to not shift smoothly until the adaptives are re-learned.**

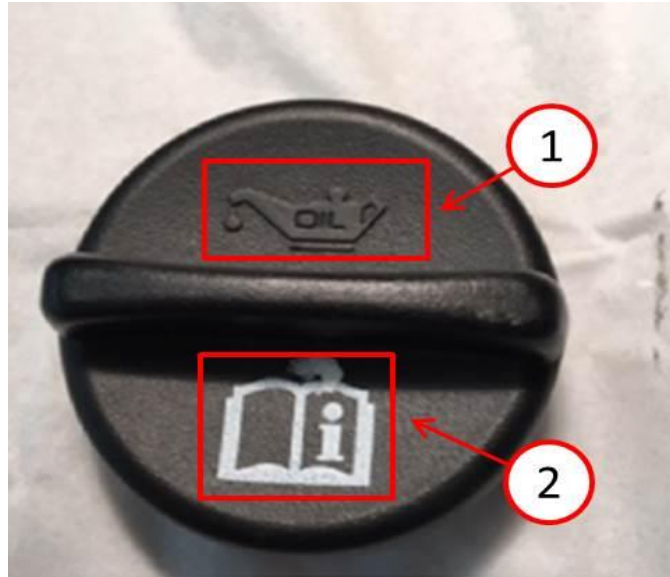
4. Clear any DTCs that may have been set in other modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.

**NOTE: Do not remove oil filter cap or change the oil filter. Replace the engine oil only by following the steps below.**

5. Run engine for 10 minutes before oil change to warm up the engine oil.

6. Remove oil fill cap.
7. Clean top of oil fill cap with Isopropyl alcohol or equivalent and apply engine oil viscosity rating sticker as shown in (Fig. 1).

**NOTE: Contact your National Sales Center or General Distributors for oil fill cap stickers and a copy of the Owner's Manual Addendum cards.**



***Fig. 1 Cap Before Sticker Applied***

- 1 - Do Not Cover This Embossed International Oil Symbol
  - 2 - Cover This Old Oil Info Symbol With The New "5W40" Label
-

8. Remove the oil drain plug and allow oil to drain for at least 5 minutes or until it stops dripping.
9. Inspect the oil drain plug and gasket for damages ([Fig. 2](#)). Replace if necessary.



***Fig. 2 Damaged Rubber Seal***

1 - Oil Drain Plug Gasket Seal Crushed

- 
10. Reinstall the oil drain plug. Tighten to 45 N·m (33 ft. Lbs.).
  11. Add 5W-40 synthetic engine oil to the engine. Use 10 quarts for (DS) Ram trucks and 8 quarts for (WK) Jeep Grand Cherokee. Take care not to spill oil on engine.

12. Reinstall the oil fill cap with the new 5W-40 sticker firmly attached (Fig. 3).



**Fig. 3 Cap After Sticker Applied**

1 - "5W-40" Sticker Affixed To Oil Filler Cap

---

**NOTE: Do not reset the oil life message on any new vehicles (under 500 miles).**

13. Start engine and run for one minute. Shut the engine off and wait five minutes for oil to drain down to sump. Verify the engine oil level is correct. Oil level must be at "MAX" level +/- 2 mm (Fig. 4).



**Fig. 4 Oil Dipstick**

14. Insert addendum card into owner's manual.

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

| Labor Operation No: | Description  | Skill Category | Amount   |
|---------------------|--|----------------|----------|
| 09-00-00-91         | Reprogram Powertrain and Transmission Control Modules, Change Engine Oil with Fill Cap Sticker and Insert Addendum Card into Glove Box (For International Market) (0 - Introduction) | 10 - Diesel    | 0.9 Hrs. |

**NOTE: The expected completion time for the flash download portion of this procedure is approximately 1 minute. Actual flash download times may be affected by vehicle connection and network capabilities.**

**FAILURE CODE:**

|    |                |
|----|----------------|
| ZZ | Service Action |
|----|----------------|