



Revised December 2016

Dealer Service Instructions for:

Safety Recall S55 / NHTSA 16V-529 Transaxle Range Sensor Wire Harness

NOTE: Software tables have been updated.



2014 - 2015 (KL) Jeep_® Cherokee

NOTE: This recall applies only to the above vehicles equipped with a 9-speed transaxle (sales code DFH, DFJ, DF6, or DF5) and final drive ratio (sales code DLT, DMA, DML, DMD, DMC, or DME) built through October 31, 2014 (MDH 103123).

2015 (UF) Chrysler 200

NOTE: This recall applies only to the above vehicles equipped with a 9-speed transaxle (sales code DFH or DF5) built through October 31, 2014 (*MDH 103123*).

2015 (VM) RAM ProMaster City

NOTE: This recall applies only to the above vehicles equipped with a 9-speed transaxle (sales code **DFH**) built through July 27, 2015 (**MDH 072700**).

2015 (BU) Jeep_® Renegade

NOTE: This recall applies only to the above vehicles equipped with a 9-speed transaxle (sales code **DFH**) and final drive ratio (sales code DMA or DME) built through August 28, 2015 (**MDH 082800**).

2016 (FB) Fiat 500X

NOTE: This recall applies only to the above vehicles equipped with a 9-speed transaxle (sales code **DFH**) and final drive ratio (sales code DME) built from January 13, 2015 through July 29, 2015 (MDH 011300 through 072900).

SPECIAL NOTE: There are special service requirements that need to be performed in the vehicle write-up area when the customer arrives. Please refer to Section "A" of the Service Procedure for detailed instructions.

Models (continued)

IMPORTANT: Some of the involved vehicles may be in dealer new vehicle inventory. Federal law requires you to complete this recall service on these vehicles before retail delivery. Dealers should also consider this requirement to apply to used vehicle inventory and should perform this recall on vehicles in for service. Involved vehicles can be determined by using the VIP inquiry process.

Subject

The transaxle range sensor wire harness on about 323,400 of the above vehicles may have been built with insufficient wire terminal crimps. This may cause an intermittent high electrical resistance in the transaxle range sensor wire harness circuit(s). A high resistance circuit(s) in this transaxle range sensor wiring harness will cause the on-board diagnostic system to set a Diagnostic Trouble Code (DTC). When the DTC is set, the system defaults the transaxle to neutral and the customer experiences a loss of motive power. Motive power can usually be regained upon an engine restart. The loss of motive power could cause a crash without warning.

Repair

The Transmission Control Module (TCM) must be reprogramed with new software. The new software strategy will eliminate the transaxle "shift-to-neutral" condition for this issue, place the transaxle in a "fixed gear limp mode" and illuminate the Malfunction Indicator Lamp (MIL) if a high resistance circuit is detected in the transaxle range sensor wire harness.

Also, if certain Diagnostic Trouble Codes (DTC's) are present, the transaxle range sensor wire harness will be replaced.

Parts Information

SPECIAL NOTE: If certain Diagnostic Trouble Codes (DTC's) referenced in the Service Procedure (Step 11) are present, the transaxle range sensor wire harness will need to be replaced. The expected failure rate for replacement is approximately 5% of the total vehicle population. Due to the low expected failure rate, do not order a transaxle range sensor wire harness until you verify the specified DTC's. A parts ordering restriction has been assigned to help manage harness part availability. If you require additional harness quantities beyond the parts ordering restriction quantity, utilize the Campaign Parts Expediting process located in Recall Central on DealerCONNECT.

| Part Number | Description |
|--------------|--|
| CSVFS551AA | Harness, Transaxle Range Sensor Wire (KL/BU/FB models with final drive ratio sales code DME, DMC, DMD, or DMD and all VM models) |
| CSVFS552AA | Harness, Transaxle Range Sensor Wire (KL/BU models with final drive ratio sales code DMA or DLT) |
| CSVFS553AA | Harness, Transaxle Range Sensor Wire (all UF models) |
| CSVFS555AA | Valve Body O-Ring Kit |
| 68218925AA | ATF, Mopar 8&9 Speed (three quarts required) or |
| L12108 | ATF, Shell _® (three quarts required) |
| S67109031201 | or ATF, ZF Lifeguard 8_{\odot} (three quarts required) |

NOTE: If Shell ATF or ZF ATF is used during the repair, use "NPN" on the claim when charging out the ATF fluid. Do not use the part numbers above, they are for reference only. For NAFTA region vehicles, only the Mopar ATF can be charged out on the claim using the part number provided.

Parts Return

No parts return required for this campaign.

Special Tools

The following special tools are required to perform this repair:

- > NPN wiTECH micro pod II
- ▹ NPN Laptop Computer
- ➢ NPN wiTECH Software

Service Procedure

A. Check VIP for Transaxle Replacement (in write-up area)

- 1. At the write-up area, open a DealerCONNECT session.
- 2. Select the "Service" tab.
- 3. In the "Vehicle Information Plus" box select "Single VIN Inquiry"
- 4. Enter the vehicle VIN and mileage and click the blue "Submit" button.
- 5. Check for the following warning message (Figure 1):

"THE 9 SPEED TRANSMISSION WAS REPLACED WITH COMMONIZED HARDWARE SOFTWARE".

- If the above warning message is present in VIP, no further action is required. The replacement transaxle does not have the issue being addressed in this recall. Write up the vehicle for payment and return the vehicle to the customer.
- If the above warning message is not present in VIP, write up the vehicle for repair. The technician should start with Section B. Checking for Diagnostic Trouble Codes.

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Figure 1 – Perform a VIP Enquiry to Determine if the Transaxle has been Replaced

Service Procedure

B. Check for Diagnostic Trouble Codes (DTC's)

NOTE: The wiTECH scan tool must be used to perform this recall. The wiTECH software is required to be at the latest release level before performing this procedure.

1. Open the hood. Install a battery charger and verify that the charging rate provides 13.0 to 13.5 volts. Do not allow the charger to time out during the flash process. Set the battery charger timer (if so equipped) to continuous charge.

NOTE: Use an accurate stand-alone voltmeter. The battery charger volt meter may not be sufficiently accurate. Voltages outside of the specified range will cause an unsuccessful flash. If voltage reading is too high, apply an electrical load by activating the park or headlamps and/or HVAC blower motor to lower the voltage.

- 2. Connect the wiTECH micro POD to the vehicle data link connector.
- 3. Place the ignition in the "**RUN**" position.
- 4. Open the wiTECH Diagnostic application.
- 5. Starting at the "Select Tool" screen, highlight the row/tool for the wiPOD device you are using. Then select "**Next**" at bottom right side of the screen.
- 6. Enter your "**User id**" and "**Password**", then select "**Finish**" at the bottom of the screen.

- 7. From the "Vehicle View" screen, select the "TCM" icon.
- 8. Select the "**Flash**" tab.
- 9. Record the vehicle's current TCM software level part number.

NOTE: The TCM software level part number must be known to properly determine the level of repair the vehicle requires.

10. Using the appropriate chart below, determine if the vehicle's current software is old software or new software:

| UF Models | | | |
|---------------------|----------------------|--|--|
| Old Software | New Software | | |
| 68284158AD or lower | 68284158AE or higher | | |
| 68272209AD or lower | 68272209AE or higher | | |
| 68272314AE or lower | 68272314AF or higher | | |
| 68271619AE or lower | 68271619AF or higher | | |
| 68271618AE or lower | 68271618AF or higher | | |

| VM Models | | | |
|---------------------|----------------------|--|--|
| Old Software | New Software | | |
| 68257277AD or lower | 68351657AA or higher | | |

| BU Models | | | |
|--|----------------------|--|--|
| Old Software | New Software | | |
| 68297862AC or lower 68257274AE or lower | 68297862AD or higher | | |
| 68297864AC or lower 68257268AE or lower | 68297864AD or higher | | |
| 68297863AC or lower 68257269AE or lower | 68297863AD or higher | | |
| 68297827AC or lower 68265912AI or lower | 68297827AD or higher | | |
| 68297828AC or lower 68265791AG or lower | 68297828AD or higher | | |

| FB Models | | | |
|--|----------------------|--|--|
| Old Software | New Software | | |
| 68297860AE or lower 68276198AD or lower | 68297860AF or higher | | |
| 68297861AE or lower 68276197AD or lower | 68297861AF or higher | | |
| 68297829AC or lower 68276200AD or lower | 68297829AD or higher | | |

| KL Models | | | |
|---------------------|-----------------------|--|--|
| Old Software | New Software | | |
| 68241152AD or lower | 68241152AE or higher | | |
| 68241141AD or lower | 68241141AE or higher | | |
| 68241129AD or lower | 68241129AE or higher | | |
| 68241142AD or lower | 68241142AE or higher | | |
| 68241130AD or lower | 68241130AE or higher | | |
| 68241143AD or lower | 68241143AE or higher | | |
| 68241139AD or lower | 68241139AE or higher | | |
| 68241149AD or lower | 68241149AE or higher | | |
| 68241131AC or lower | 68241131AD or higher | | |
| 68241144AC or lower | 68241144AD or higher | | |
| 68241132AC or lower | 68241132AD or higher | | |
| 68241145AC or lower | 68241145AD or higher | | |
| 68241133AC or lower | 68241133AD or higher | | |
| 68241146AC or lower | 68241146AD or higher | | |
| 68241136AC or lower | 68241136AD or higher | | |
| 68241147AC or lower | 68241147AD or higher | | |
| 68241140AC or lower | 68241140AD or higher | | |
| 68241150AC or lower | 68241150AD or higher | | |
| 68284510AC or lower | | | |
| 68241170AD or lower | 68284510AD or higher | | |
| 68284519AC or lower | | | |
| 68241161AD or lower | 68284519AD or higher | | |
| 68284511AC or lower | | | |
| 68241169AD or lower | 68284511AD or higher | | |
| 68284520AC or lower | 69294520AD or higher | | |
| 68241160AD or lower | 68284520AD or higher | | |
| 68284512AC or lower | 68284512AD or higher | | |
| 68241168AD or lower | 002045 TZAD OF HIGHEI | | |
| 68284521AC or lower | 68284521AD or higher | | |
| 68241159AD or lower | | | |
| 68284517AC or lower | 68284517AD or higher | | |
| 68241163AD or lower | | | |
| 68284526AC or lower | 68284526AD or higher | | |
| 68241173AD or lower | | | |
| 68241170AF or lower | 68241170AG or higher | | |
| 68241161AF or lower | 68241161AG or higher | | |
| 68241169AF or lower | 68241169AG or higher | | |
| 68241160AF or lower | 68241160AG or higher | | |
| 68241168AF or lower | 68241168AG or higher | | |
| 68241159AF or lower | 68241159AG or higher | | |
| 68241163AF or lower | 68241163AG or higher | | |
| 68241173AF or lower | 68241173AG or higher | | |
| 68284513AB or lower | 68284513AC or higher | | |
| 68241167AG or lower | | | |
| 68284522AB or lower | 68284522AC or higher | | |
| 68241158AG or lower | | | |
| 68284514AB or lower | 68284514AC or higher | | |
| 68241166AG or lower | | | |
| 68284523AB or lower | 68284523AC or higher | | |
| 68241157AG or lower | | | |

| KL Models (Continued) | | |
|--|----------------------|--|
| Old Software | New Software | |
| 68284515AB or lower 68241171AG or lower | 68284515AC or higher | |
| 68284524AB or lower 68241156AG or lower | 68284524AC or higher | |
| 68284516AB or lower 68241165AG or lower | 68284516AC or higher | |
| 68284525AB or lower 68241155AG or lower | 68284525AC or higher | |
| 68284518AB or lower 68241162AG or lower | 68284518AC or higher | |
| 68284527AB or lower 68241172AG or lower | 68284527AC or higher | |

- 11. From the "Vehicle View" screen, check for DTC's:
 - For vehicles with old TCM software, if DTC P0975, P0978, P0981 or P0984 is not active or stored continue with Section D. Reprogram Powertrain Control Module.
 - For vehicles with old TCM software, if DTC P0975, P0978, P0981 or P0984 is active or stored, continue with Section C. Replace Transaxle Wire Harness.
 - For vehicles with new TCM software, if DTC P0901 is not active or stored, no further action is required. Return the vehicle to the customer.
 - For vehicles with new TCM software, if DTC P0901 is active or stored, continue with Section C. Replace Transaxle Wire Harness.
 - For vehicles with new TCM software and DTC P0975, P0978, P0981 or P0984, there is an issue with the transaxle that is not addressed in this recall. Refer to the diagnostic information to determine the transaxle issue.

C. Replace Transaxle Wire Harness

- 1. Open the hood.
- 2. Disconnect the negative battery cable.
- 3. Remove and save the plastic engine cover.
- 4. <u>For BU/FB models</u>, remove and save the two transaxle wire harness bracket retaining bolts (Figure 2).

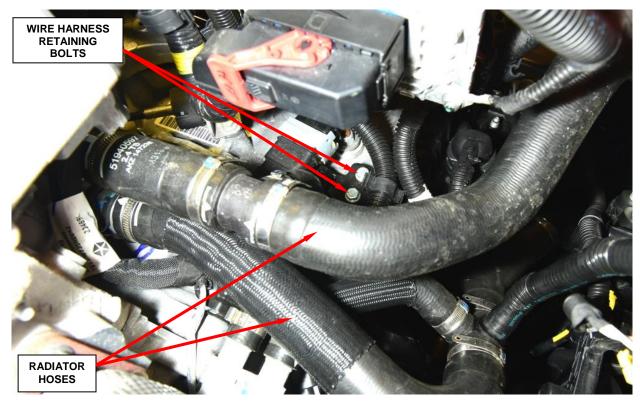


Figure 2 – Wire Harness Bracket Retaining Bolts

- 5. <u>For BU/FB models</u>, rotate the lock lever on the transaxle round wire harness electrical connector counterclockwise.
- 6. <u>For BU/FB models</u>, disengage the transaxle round wire harness connector from the socket on the transaxle front pan.
- 7. **For BU/FB models**, using a suitable pry tool, remove the clip holding the transaxle round wire harness connector socket in the valve body cover (Figure 3).
- 8. <u>For BU/FB models</u>, remove and save the two upper transaxle front cover retaining bolts.

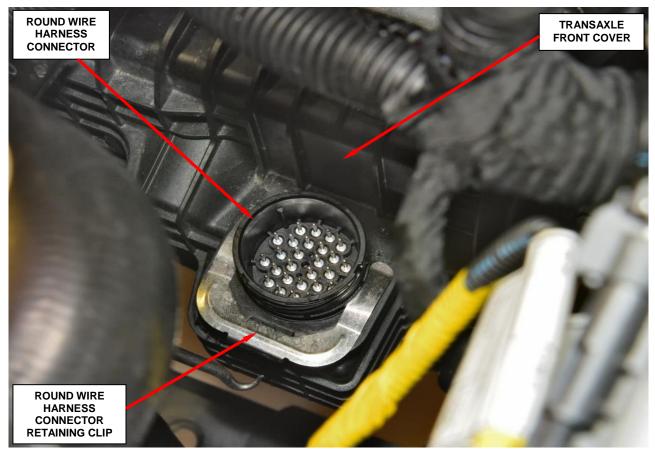


Figure 3 – Round Transaxle Connector Retaining Clip

- 8. Raise the vehicle on an appropriate hoist.
- 9. Remove and save the underbody splash shield and lower fascia screws.
- 10. Place a drain pan into position and remove and save the transaxle oil drain plug (Figure 4).
- 11. After transaxle fluid has fully drained, install the transaxle oil drain plug. Tighten the drain plug to 26 ft. lbs. (35 N·m).

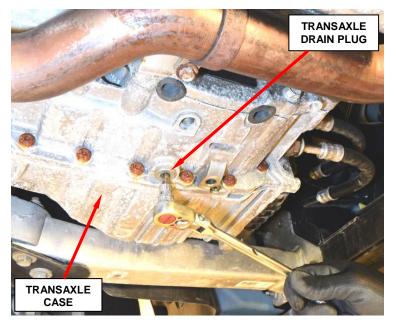


Figure 4 – Transaxle Drain Plug

- 12. <u>For KL/UF models</u>, rotate the lock lever on the round transaxle wire harness connector counterclockwise.
- 13. <u>For KL/UF models</u>, disengage the round transaxle wire harness connector from the socket on the transaxle front pan.
- 14. For KL/UF models, using a suitable pry tool, remove the clip holding the round transaxle wire harness connector socket in the valve body cover (Figure 3).
- 15. <u>For KL/UF models</u>, push the round transaxle harness connector through the transaxle front cover.
- 16. **For BU/FB models**, remove and save the oil cooler tube shield (Figure 5).

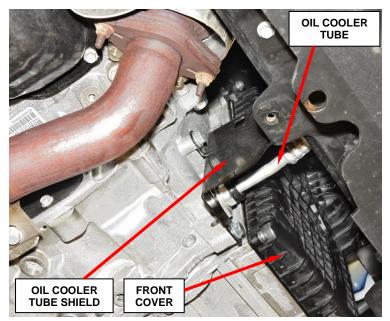


Figure 5 – Oil Cooler Tubes Shield



Figure 6 – Transaxle Front Cover

- 17. Remove and save the transaxle front cover (Figure 6).
- 18. Remove and save the valve body retaining bolts (Figure 7).
- 19. Using a pry tool, separate the valve body from the case.
- 20. Using a T27 Torx bit, remove and save the transmission speed sensor screw and pull the speed sensors from the transaxle case.

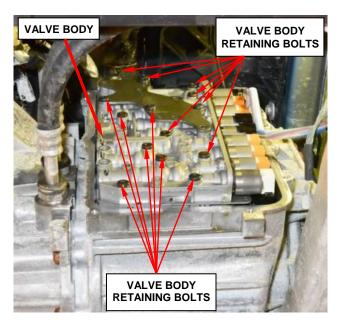


Figure 7 – Valve Body Retaining Bolts

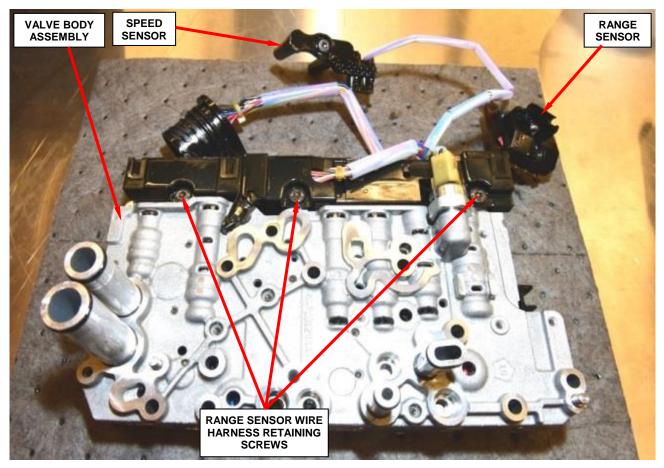


Figure 8 – Valve Body and Wire Harness

- 21. For BU/FB models, lower the vehicle from the hoist.
- 22. Using a long reach T27 Torx bit, remove and save the Transmission Range Sensor (TRS) mounting screw.
- 23. <u>For BU/FB models</u>, raise the vehicle on the hoist.
- 24. Carefully remove the valve body and wire harness as an assembly from the transaxle.
- 25. Remove and save the three transaxle range sensor wire harness retaining screws (Figure 8).

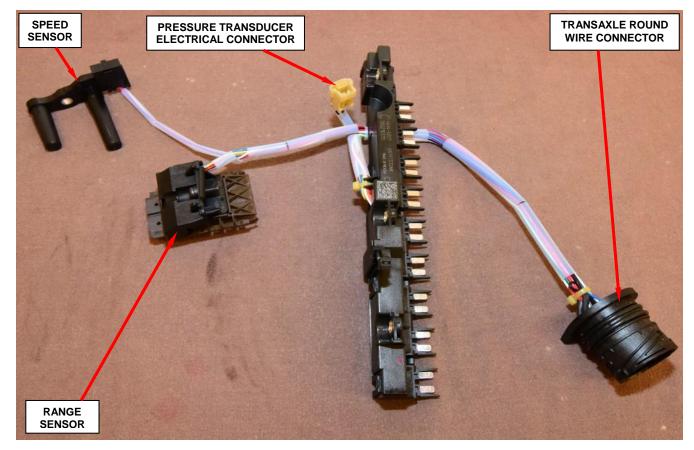


Figure 9 – Transaxle Range Sensor Wire Harness

- 26. Remove and discard the original transaxle range sensor wire harness (Figure 9).
- 27. Place the new transaxle range sensor wire harness into position (Figure 9).
- 28. Install the three transaxle range sensor wire harness retaining screws (Figure 8). Tighten the screws to 50 in. lbs. (6 N \cdot m).
- 29. Connect the electrical connector for the pressure transducer (Figure 9).
- 30. Replace both rubber O-rings on all the valve body fluid crossover tubes.
 - CAUTION: Be sure to lubricate the O-rings with clean transmission oil.
- 31. Loosely place the valve body into position on the transaxle.
- 32. For BU/FB models, lower the vehicle from the hoist.

- 33. Install the range sensor into position inside the transaxle case and install the retaining screw. Tighten the screw to 50 in. lbs. (6 N·m).
- 34. For BU/FB models, raise the vehicle on the hoist.
- 35. Install the speed sensor into position inside the transaxle case and install the retaining screw. Tighten the screw to 50 in. lbs. (6 N \cdot m).
- 36. While guiding the manual lever cam into the slot on the manual valve, install the valve body to the transaxle.

CAUTION: Be sure to align the valve body with the fluid crossover tubes and the wire harness is routed so that it is not pinched between the valve body and transaxle case.

- Install the valve body retaining bolts (Figure 7). Tighten the bolts to 71 in. lbs. (8 N·m).
- 38. Clean the transaxle front cover.
- 39. Loosely place the front cover in position on the transaxle.
- 40. Insert the transaxle round wire connector socket into the opening on the inside of transaxle front cover with the flat side of the socket on the left.
- 41. Press the transaxle round wire connector socket inward until the retainer clip groove is exposed on the outside of the front cover.
- 42. Install the retainer clip to hold the transaxle round wire connector socket in the transaxle front cover.
- 43. Install the transaxle front cover. Tighten the transaxle front cover bolts to 88 in. lbs. (10 N·m).
- 44. Engage the transaxle round wire connector into the round wire connector socket on the transaxle front cover.
- 45. Rotate the lock lever clockwise onto the transaxle round wire connector.
- 46. Install the oil cooler tube shield.

- 47. <u>For BU/FB models</u>, Install the underbody splash shield.
- 48. **For BU/FB models**, install the fascia lower retaining screws.
- 49. Remove and save the left front wheel/tire assembly.
- 50. Turn steering wheel to full left position.

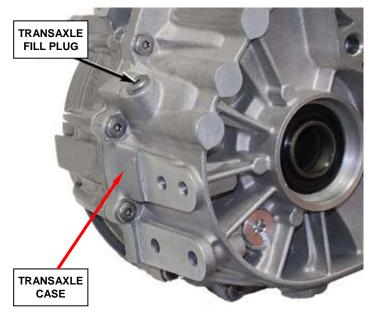


Figure 10 – Transaxle Fill Plug Location

- 51. Remove and save the transmission fill plug (Figure 10).
- 52. Add 2.65 quarts (2.5 liters) of MOPAR_® 8&9 Speed ATF[™] or equivalent to the transaxle.
- 53. Start the engine and allow the transaxle fluid temperature to reach a minimum of $122^{\circ}F(50^{\circ}C)$.

NOTE: Use the wiTECH scan tool to monitor transaxle temperature.

54. Insert Special Tool 10323A into the transaxle fill plug hole.

55. Use the Fluid Level Table below to determine if additional fluid is required.

56. Install the fill plug. Tighten the fill plug to 17 ft. lbs. (23 $N \cdot m$).

| TEMP in °C | TEMP in °F | MIN LEVEL (mm) | NOMINAL LEVEL (mm) | MAX LEVEL (mm) |
|------------|------------|----------------|--------------------|----------------|
| 50° | 122 | 13 mm | 16 mm | 19 mm |
| 55° | 131 | 13.5 mm | 17.5 mm | 20 mm |
| 60° | 140 | 16 mm | 20 mm | 23 mm |
| 65° | 149 | 18 mm | 21.5 mm | 24 mm |
| 70° | 158 | 19 mm | 22.5 mm | 25 mm |
| 75° | 167 | 20 mm | 24 mm | 27 mm |
| 80° | 176 | 21 mm | 25 mm | 28 mm |
| 85° | 185 | 22 mm | 26 mm | 29 mm |
| 90° | 194 | 24 mm | 27.5 mm | 31 mm |
| 95 | 203 | 25 mm | 29 mm | 32 mm |
| 100 | 212 | 27 mm | 30.5 mm | 34 mm |

Fluid Level Table

- 57. Install the left front wheel/tire assembly. Tighten the lug nuts to:
 - **≻ KL models** 96 ft. lbs. (130 N·m).
 - **▶ UF models** 100 ft. lbs. (135 N·m).
 - **▶ BU models** 89 ft. lbs. (120 N·m).
 - > VM models (with steel wheels) 64 ft. lbs. (86 N \cdot m).
 - > VM models (with aluminum wheels) 89 ft. lbs. (120 N \cdot m).
 - **▶ FB models** 89 ft. lbs. (120 N·m).

58. Lower the vehicle from the hoist.

59. Install the engine cover.

60. Connect the wiTECH scan tool to the vehicle and start a session.

NOTE: The wiTECH software is required to be at the latest release level before performing this procedure.

- 61. Use the following procedure to perform the Electric Power Steering (EPS) Verification Test:
 - a. Verify all accessories are turned off, the battery is fully charged and the charging system has a status of "charged".
 - b. Verify that the ignition is "ON".
 - c. Connect the wiTECH scan tool and start a wiTECH session.
 - d. Using the wiTECH scan tool, record and then erase all Diagnostic Trouble Codes (DTC's) from all modules.
 - e. Start the engine and allow it to run for two minutes.
 - f. Turn the steering wheel from stop-to-stop twice, holding at each stop position for one second. Then return the steering wheel to the straight ahead position.
 - g. Turn the ignition "OFF" and wait five minutes.
 - h. Turn the ignition "ON" and using the wiTECH scan tool, read DTCs from all modules.
 - i. If there are no DTC's present after turning ignition "ON", road test the vehicle for at least five minutes.
 - j. Again, with the wiTECH scan tool, read all DTCs. If there are no DTC's present after the road test, continue with **Section D. Reprogram the Powertrain Control Module (PCM)**.

D. Reprogram the Powertrain Control Module (PCM)

NOTE: The wiTECH scan tool must be used to perform this recall. The wiTECH software is required to be at the latest release level before performing this procedure. If the reprogramming flash for the PCM is aborted or interrupted, repeat the procedure.

- 1. Starting at the "Vehicle View" screen, click on the "PCM" icon.
- 2. Select the "Flash" tab.
- 3. From the "**PCM View**" screen, compare the "**Current ECU Flash Number**" with the "**New Part Number**" listed on the wiTECH scan tool "**sort table**". If the "**Current ECU Flash Number**" is the same as the "**New Part Number**" continue to Step 8. If the part numbers are not the same, continue to Step 4.
- 4. With the cursor over the desired flash file, click the green arrow button on the right side of the screen to start the process.
- 5. From the "**ECU Flash**" screen follow the wiTECH screen instructions to complete the reprogramming.
- 6. Once the flash is complete click the "**OK**" button on the "**ECU Flash**" screen.
- 7. Clear all DTC's.
- 8. Continue to Section E. Reprogram Transmission Control Module (TCM).

E. Reprogram the Transmission Control Module (TCM)

NOTE: The wiTECH scan tool must be used to perform this recall. The wiTECH software is required to be at the latest release level before performing this procedure. If the reprogramming flash for the TCM is aborted or interrupted, repeat the procedure.

CAUTION: The TCM must first be reprogrammed, second the VIN verification program must be performed, and last the Proxi Configuration Alignment program must be performed. <u>The reprogramming process must be done in this order or the transaxle will not operate.</u>

- 1. From the "Vehicle View" screen, click on the "TCM" icon.
- From the "TCM View" screen, compare the "Current ECU Flash Number" with the "New Part Number" listed on the "sort table". If the "Current ECU Flash Number" is the same as the "New Part Number" continue to Step 7. If the part numbers are not the same, continue to Step 3.
- 3. With the cursor over the desired flash file, click the green arrow button on the right side of the screen to start the process.
- 4. From the "**ECU Flash**" screen follow the wiTECH screen instructions to complete the reprogramming.
- 5. Once the flash is complete click the "OK" button on the "ECU Flash" screen.
- 6. From the "**TCM View**" screen, compare the "**Current ECU Flash Number**" with the "**New Part Number**" listed on the "**sort table**". If the "**Current ECU Flash Number**" is the same as the "**New Part Number**" the flash is complete. If the part numbers are not the same, repeat Steps 1 through 5. If the part numbers match, continue with Step 7.
- 7. Select "Misc. Functions" tab.
- 8. Highlight "**TCM VIN Verification**" and click on the green arrow to start the process.
- 9. Follow screen prompts to complete VIN verification process.

- 10. Page back to "Vehicle View" screen.
- 11. Select "Vehicle Preparations" tab.
- 12. Highlight "**PROXI Alignment Procedure**" and click on the green arrow to start the process.
- 13. Follow screen prompts to complete PROXI alignment procedure.
- 14. Turn the ignition to the "**OFF**" position.
- 15. Unplug the wiTECH micro POD from the vehicle and wait two minutes.
- 16. Connect the wiTECH micro POD to the vehicle.
- 17. Turn the ignition to the "**RUN**" position.
- 18. Start a wiTECH session.
- 19. Select the "Vehicle Preparations" tab.
- 20. Highlight "**PROXI Alignment Procedure**" and click on the green arrow to start the process.
- 21. Follow screen prompts to verify the PROXI alignment procedure:
 - > If the TCM module is not aligned, repeat Steps 11 through Step 20.
 - ▶ If the TCM module <u>is</u> aligned, continue with Step 22.
- 22. Cycle the ignition to the "OFF" position and wait one minute.
- 23. Place ignition in the "**RUN**" position.
- 24. Clear all Diagnostic Trouble Codes (DTC's).
- 25. Remove the battery charger from the vehicle.
- 26. Remove wiTECH scan too from the vehicle.
- 27. Return the vehicle to the customer.

Complete Proof of Correction Form for California Residents

This recall is subject to the <u>State of California Registration Renewal/Emissions</u> <u>Recall Enforcement Program</u>. Complete a Vehicle Emission Recall Proof of Correction Form (<u>Form No. 81-016-1053</u>) and supply it to vehicle owners residing in the state of California for proof that this recall has been performed when they renew the vehicle registration.

Completion Reporting and Reimbursement

Claims for vehicles that have been serviced must be submitted on the DealerCONNECT Claim Entry Screen located on the Service tab. Claims submitted will be used by FCA to record recall service completions and provide dealer payments.

Use <u>one</u> of the following labor operation numbers and time allowances:

| | Labor Operation <u>Number</u> | Time <u>Allowance</u> |
|---|----------------------------------|--------------------------|
| Powertrain Control Module and Transmission Control Module updates previously performed or the transaxle has been replaced during a previous service procedure | 18-S5-51-81 | 0.2 hours |
| Inspect the Powertrain Control Module (PCM) software level and reprogram Transmission Control Module (TCM) | 18-S5-51-82 | 0.3 hours |
| Inspect the Transmission Control Module (TCM) software level and reprogram Powertrain Control Module (PCM) | 18-\$5-51-83 | 0.2 hours |
| Reprogram the Powertrain Control Module (PCM) and Transmission Control Module (TCM) | 18-S5-51-84 | 0.5 hours |
| Replace transaxle wire harness and reprogram Powertrain Control Module (PCM and/or Transmission Control Module (TCM) | | |
| KL/UF models | | 2.7 hours |
| VM models | | 2.9 hours |
| BU/FB models | | 3.0 hours |

Add the cost of the recall parts package plus applicable dealer allowance to your claim.

NOTE: See the Warranty Administration Manual, Recall Claim Processing Section, for complete recall claim processing instructions.

Dealer Notification

To view this notification on DealerCONNECT, select "Global Recall System" on the Service tab, then click on the description of this notification.

Owner Notification and Service Scheduling

All involved vehicle owners known to FCA are being notified of the service requirement by first class mail. They are requested to schedule appointments for this service with their dealers. A generic copy of the owner letter is attached.

Enclosed with each owner letter is an Owner Notification postcard to allow owners to update our records if applicable.

Vehicle Lists, Global Recall System, VIP and Dealer Follow Up

All involved vehicles have been entered into the DealerCONNECT Global Recall System (GRS) and Vehicle Information Plus (VIP) for dealer inquiry as needed.

GRS provides involved dealers with an <u>updated</u> VIN list of <u>their incomplete</u> vehicles. The owner's name, address and phone number are listed if known. Completed vehicles are removed from GRS within several days of repair claim submission.

To use this system, click on the "Service" tab and then click on "Global Recall System." Your dealer's VIN list for each recall displayed can be sorted by: those vehicles that were unsold at recall launch, those with a phone number, city, zip code, or VIN sequence.

Dealers <u>must</u> perform this repair on all unsold vehicles <u>before</u> retail delivery. Dealers should also use the VIN list to follow up with all owners to schedule appointments for this repair.

Recall VIN lists may contain confidential, restricted owner name and address information that was obtained from the Department of Motor Vehicles of various states. Use of this information is permitted for this recall only and is strictly prohibited from all other use.

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Additional Information

If you have any questions or need assistance in completing this action, please contact your Service and Parts District Manager.

Customer Services / Field Operations FCA US LLC