



NUMBER: 08-039-16 REV. A

GROUP: Electrical

DATE: June 14, 2016

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THIS BULLETIN SUPERSEDES SERVICE BULLETIN 08-039-16, DATED APRIL 02, 2016, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS**** AND INCLUDE ADDING EURO 5 EMISSION VEHICLES, 2016 MODEL YEAR, UPDATED PARTS LIST AND REPAIR PROCEDURE.**

THIS SERVICE BULLETIN IS ALSO BEING RELEASED AS RAPID RESPONSE TRANSMITTAL (RRT) 16-026. 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.

SUBJECT:

Transmission Wiring Harness Repair Or Replacement For No Start Or Stiff Steering

OVERVIEW:

This bulletin involves inspecting the transmission wire harness and installing mastic patch. If rub through is visible replace wire harness.

MODELS:

2014 - ****2016**** (KL) Jeep Cherokee

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

NOTE: This bulletin applies to 2014-2015 model year vehicles built on or before **February 02, 2015 (MDH 0202XX)** equipped with 2.0L Turbo Diesel engine (Sales Code EBT), equipped with 6-SPEED C635 manual trans (Sales Code DE1), equipped with Export Emissions (Sales Code NA1), equipped with Euro Stage 6 Emissions (Sales Code NB6) or equipped with Euro Stage 5 Emissions (Sales Code NBC).********

NOTE: This bulletin applies to 2016 model year vehicles built on or before **August 24, 2015 (MDH 0824XX)** equipped with 2.0L I4 Turbo Diesel Engine W/ ESS (Sales Code EBS), equipped with 6-SPEED C635 manual trans (Sales Code DE1), equipped with Export Emissions (Sales Code NA1), equipped with Euro Stage 6 Emissions (Sales Code NB6) or equipped with Euro Stage 5 Emissions (Sales Code NBC).********

SYMPTOM/CONDITION:

A small number of customers may experience a no start condition, stiff steering or a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find the following Diagnostic Trouble Codes (DTCs):

- U0131 - Lost Communication With Power Steering Control Module.
- U0100-00 - Lost Communication With ECM/PCM.
- P0512-00 - Starter Request Circuit.

DIAGNOSIS:

If a customer's VIN is listed in VIP or your RRT VIN list, perform the repair. For all other customers that describe the symptom/condition listed above or if the technician finds the DTC, perform the Repair Procedure.

PARTS REQUIRED:

Qty.	Part No.	Description
1	55364097AB	38 mm, Mastic Patch
**1 (AR)	68190504AD	Transmission Wiring Assembly Sales Code NBC
1 (AR)	68165479AD	Transmission Wiring Assembly Sales Code NBC
1 (AR)	68210701AB	Transmission Wiring Assembly Sales Code NBC
1 (AR)	68210700AB	Transmission Wiring Assembly Sales Code NBC
1 (AR)	68241727AA	Transmission Wiring Assembly Sales Code NBC
1 (AR)	68270158AB	Transmission Wiring Assembly Sales Code NBC
1 (AR)	68270159AB	Transmission Wiring Assembly Sales Code NBC
1 (AR)	68270162AB	Transmission Wiring Assembly Sales Code NBC
1 (AR)	68270163AB	Transmission Wiring Assembly Sales Code NBC**
1 (AR)	68280307AB	Transmission Wiring Assembly Sales Code NB6

Qty.	Part No.	Description
1 (AR)	68280316AB	Transmission Wiring Assembly Sales Code NB6
1 (AR)	68280317AC	Transmission Wiring Assembly Sales Code NB6
1 (AR)	68280319AB	Transmission Wiring Assembly Sales Code NB6
1 (AR)	68236130AB	Transmission Wiring Assembly Sales Code NB6

REPAIR PROCEDURE:

1. ****This step applies to Sales Code NBC only.**** Inspect the existing clip to be fully seated. The existing clip has a stop/cap that currently keeps clip at top of stud. This clip must be pushed in completely onto the stud past the stop/cap. This can be attained by little force to break the stop/cap plastic stop (Fig. 1) & make sure the locking C clip is secured (Fig. 2).

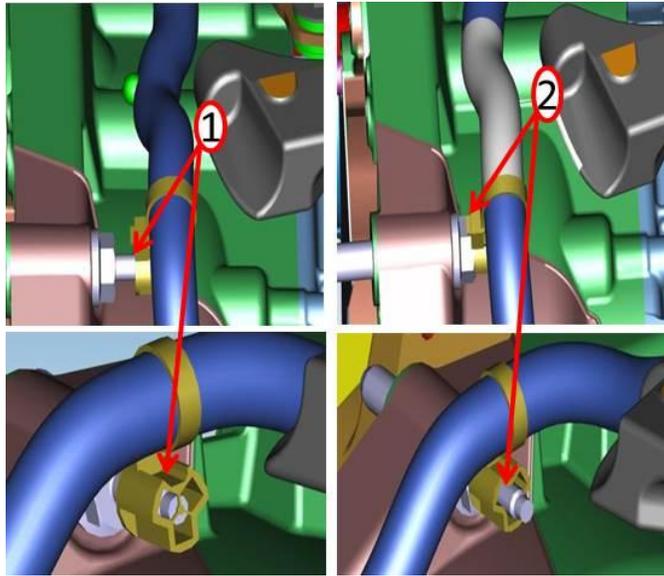


Fig. 1 Clip Location

1 - Present Position

2 - Proper Position

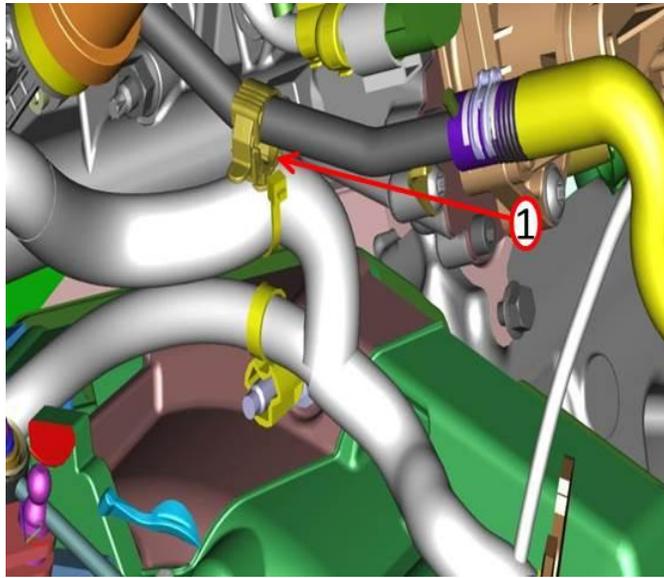


Fig. 2 Locking C clip

1 - Locking C-Clip

2. ****This step applies to Sales Code NBC only.**** Inspect the wiring harness at these locations for rub through or chaffing of the wires ([Fig. 3](#)) & ([Fig. 4](#)).

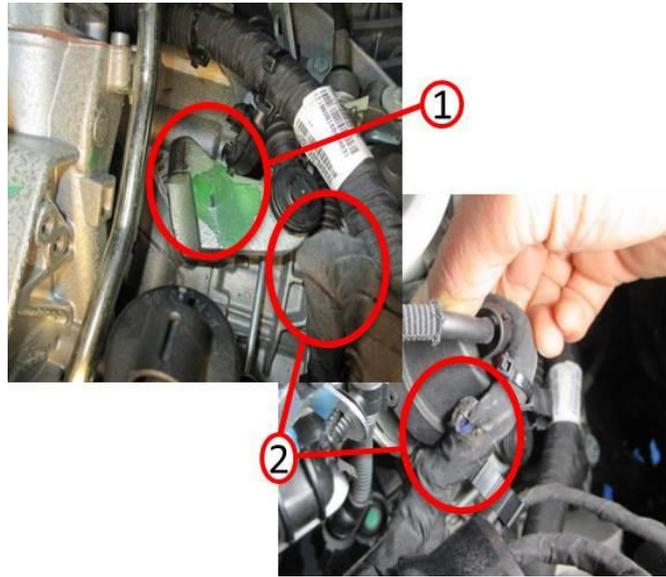


Fig. 3 Contact Areas

- 1 - Contact area 1 top side of engine transmission harness toward the rear cylinder head
2 - Contact area 2 top side of engine transmission harness
-



Fig. 4 Contact At Trans

- 1 - Euro 5 Shown / Euro 6 Similar
-

3. Is there chaffing of the wires (Fig. 5)?



Fig. 5 Rub Area

1 - Possible Rub Area

-
- a. YES>>> Replace wire harness proceed to [Step #4](#) and install mastic tape patch ([Fig. 6](#)) at the wear location ([Fig. 7](#)).
 - b. NO>> Install mastic tape patch ([Fig. 6](#)) at the wear location ([Fig. 7](#)). Proceed to [Step #24](#).

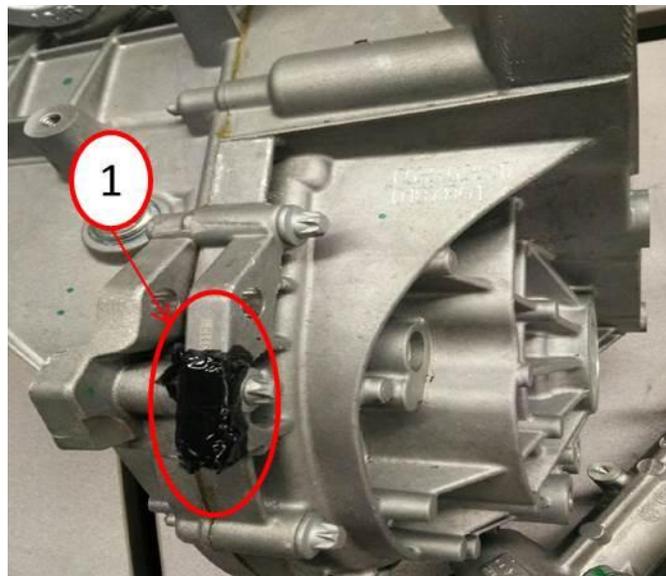


Fig. 6 Mastic

1 -Mastic Tape Repair

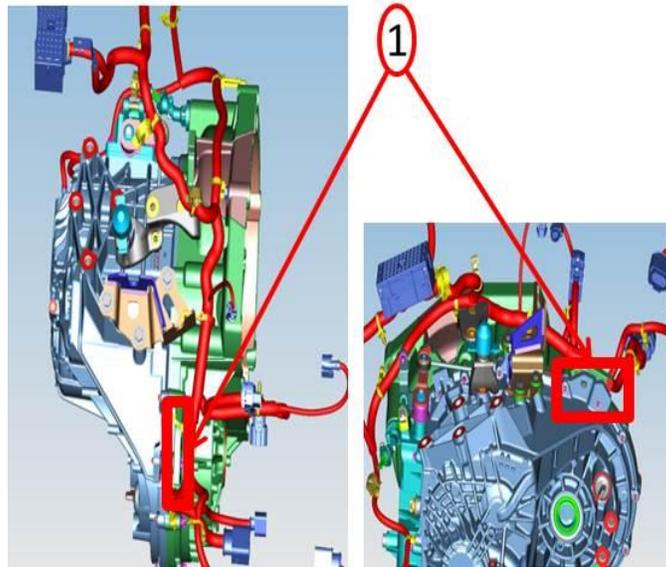


Fig. 7 Mastic Patch

1 - Mastic Patch Area

4. Disconnect battery.
5. Remove the battery from the vehicle ([Fig. 8](#)).



Fig. 8 Battery Removal

6. Remove the splash shield from underneath the vehicle.
7. Remove the ground nut from transmission to the wiring harness ([Fig. 9](#)).
8. Disconnect the pressure sensor electrical connector and the 3 wire retainers ([Fig. 9](#)).

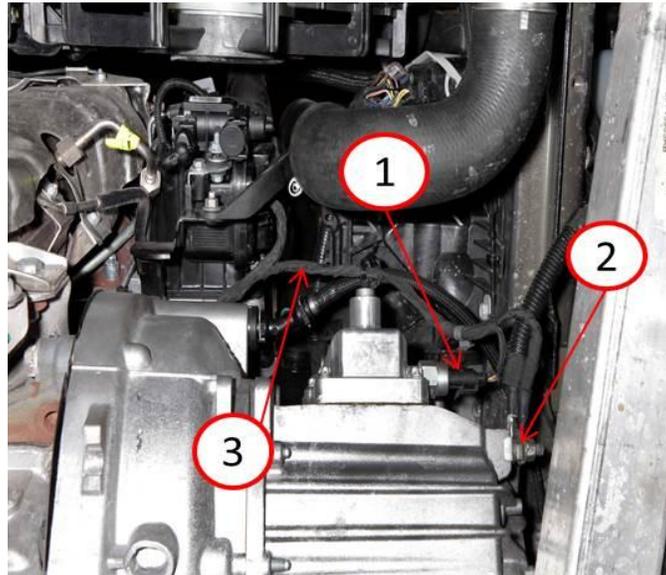


Fig. 9 Ground At Transmission

- 1 - Pressure Sensor
 - 2 - Ground Nut
 - 3 - Transmission Wire Harness
-

9. Disconnect the electrical connectors (Fig. 10) for the Electric Power Steering (EPS) and starter connector.



Fig. 10 EPS Connector

1 - EPS Connector

10. Disconnect the clip retaining the lower intake hose inlet.
11. Remove the fastener nut for the intake tube.
12. Disconnect the clip retaining the upper intake hose inlet and remove the intake tube assembly ([Fig. 11](#)).



Fig. 11 Intake Hose

13. Remove the Power Distribution Cover (PDC).
14. Remove the fastener nut on #1 power wire in (PDC) (Fig. 12).
15. Loosen the bolt (Fig. 12) securing the transmission harness to the PDC.
16. Remove the transmission wiring harness from under the PDC housing tray (Fig. 12).

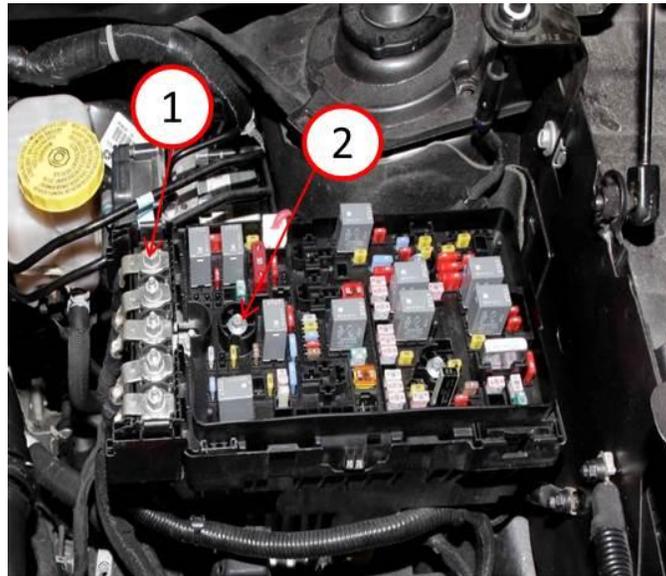


Fig. 12 PDC Wiring

- 1 - Fuse Wiring
 - 2 - Retainer For Transmission Wiring Under PDC
-

17. OHM test the fuses (Fig. 13). Are any of the fuses bad/open?



Fig. 13 Ohm Testing Fuses

- a. YES>> Replace the bad fuse(s) (Fig. 14) after the wiring harness has been replaced. Proceed to [Step #18](#).
- b. NO>> No further action needed with the fuses. Proceed to [Step #18](#).

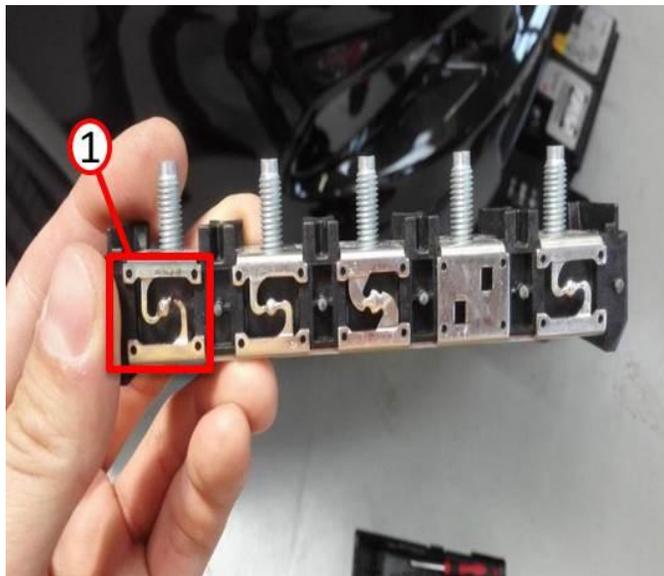


Fig. 14 Fuse

1 - Bad Fuse

18. Remove the electrical connector from the front side of the battery tray.
19. Remove the 4 push pins from the battery tray to the harness (Fig. 15).

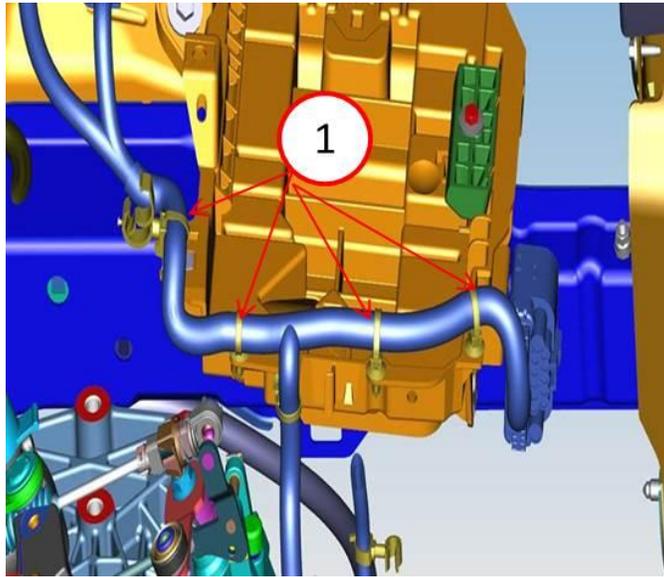


Fig. 15 Clip Location At Battery

1 - Retainer Clips

20. Remove the 5 transmission bell housing clips.
21. Disconnect the 2 electrical harness connectors at the transmission.
22. Remove the transmission wiring harness from the vehicle.
23. Install the new wiring harness ([Fig. 16](#)) in reverse order to the vehicle. Proceed to [Step #24](#) after wire harness is completely installed.



Fig. 16 Wiring Harness

24. Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all related systems are functioning as designed. Record and erase all DTCs from all modules. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.
25. Start the engine and allow it to run for two minutes.
26. Turn the steering wheel from stop to stop, holding at each stop position for one second.
27. Turn the ignition off and wait five minutes.
28. Turn the ignition on, read DTCs.
29. No DTCS present, road test the vehicle for at least five minutes.
30. Repair complete.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
08-94-AT-93	Install mastic patch and new wire retainer clip (2 - Skilled)	6 - Electrical And Body Systems	0.2 Hrs.
08-90-99-9B	Wiring Harness, Install (2 - Skilled)	6 - Electrical And Body Systems	1.0 Hrs.

FAILURE CODE:

ZZ	Service Action
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