

Your Ultimate Source for OEM Repair Manuals

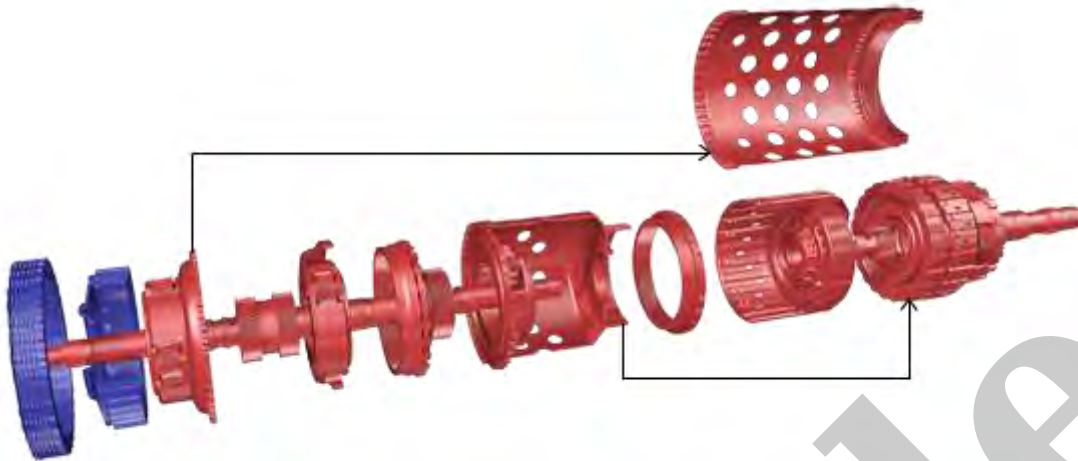
FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2017 JEEP Wrangler OEM Service and Repair Workshop Manual

[Go to manual page](#)

- Turbine shaft → planet carrier 2 → planet gears 2 → sun gears 1 / 2 → planet gears 1 → planet carrier 1 → internal crown gear 4 → planet gears 4 → planet carrier 4.

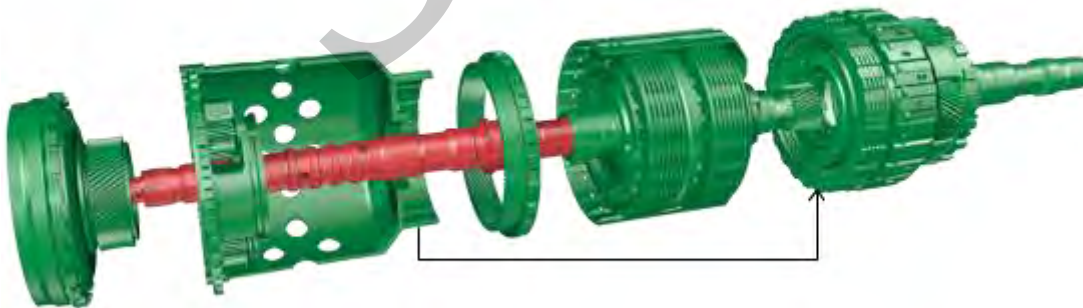
5th GEAR



Engagement elements activated: B, C and D.

- Turbine shaft → clutch C → sun gear 4 + internal crown gear 3 (EP2, C2 and S4 = turbine speed).
- Clutch D connect epicyclic gear train 3 to epicyclic gear train 4 (= output shaft).
- Turbine shaft → planet carrier 2 → planet gears 2 → sun gears 1 / 2 → planet gears 1 → planet carrier 1 → internal crown gear 4 → gives a behavior that depends on the speed ratio of S4 (= turbine speed) to C4 with the corresponding speed on PT4.

6th GEAR



Engagement elements activated: C, D and E.

- Clutches D and E block epicyclic gear trains EP3 and EP4.

speed must be tunable to allow smooth transition. If the driver presses the brake and the brake torque level requested by the driver is insufficient keep the vehicle speed below the target speed set by the driver, the ESC shall continue to hold hydraulic braking in order to avoid an increase in vehicle speed while the driver is manually trying to decrease the vehicle speed.

Refer To List:

List 1

- [21 - Transmission and Transfer Case / Automatic - 8HP50/850RE / VALVE BODY / Removal and Installation](#)
- [21 - Transmission and Transfer Case / Automatic - 8HP75 / VALVE BODY / Removal and Installation](#)
- [21 - Transmission and Transfer Case / Automatic - 8P75PH / VALVE BODY / Removal and Installation](#)

Diagnosis And Testing - Road Testing

DIAGNOSIS AND TESTING - ROAD TESTING

CAUTION

A unique transmission fluid has been developed for this transmission. This fluid is NOT compatible with ATF+4 or any other current FCA US LLC transmission fluid. For specifics about this unique fluid see FLUIDS, LUBRICANTS AND GENUINE PARTS.

Before road testing, be sure the transmission fluid level has been checked and adjusted if necessary. Verify that all Diagnostic Trouble Codes (DTCs) have been resolved.

Observe engine performance during the road test. A poorly tuned engine will not allow accurate analysis of transmission operation.

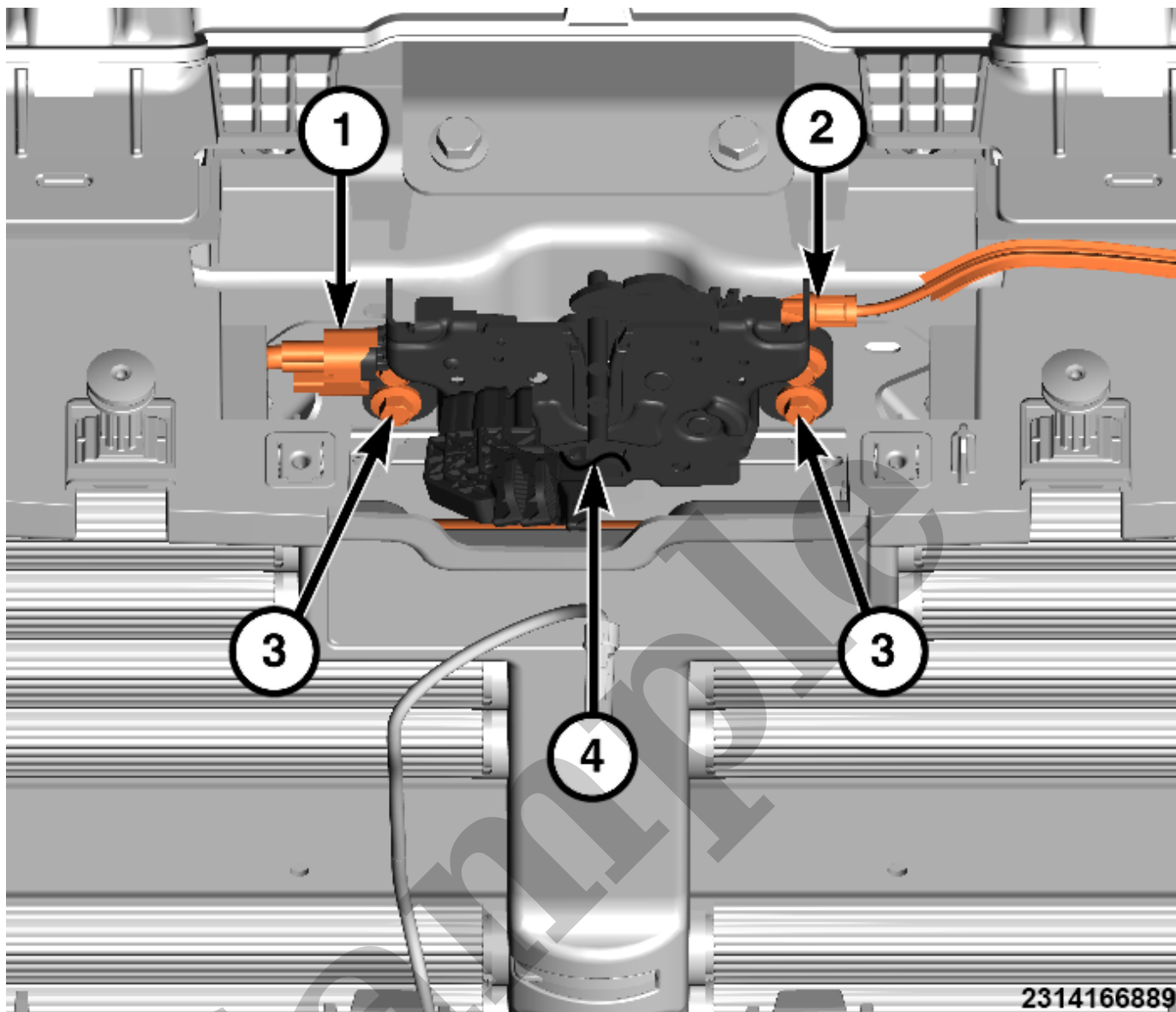
Operate the transmission in all gear ranges. Check for shift variations and engine flare which indicates slippage. Note if shifts are harsh, spongy, delayed, early, or if part throttle downshifts are sensitive.

Slippage indicated by engine flare, usually means clutch, overrunning clutch, or line pressure problems.

A slipping clutch can often be determined by comparing which internal units are applied in the various gear ranges. The Clutch Application chart provides a basis for analyzing road test results.

CLUTCH APPLICATION

GEAR	A	B	C	D	E	RATIO
1	X	X	X			4.71: 1
2	X	X			X	3.14: 1
3		X	X		X	2.11: 1
4		X		X	X	1.67: 1
5		X	X	X		1.29: 1



1 - Hood Latch Harness Connector

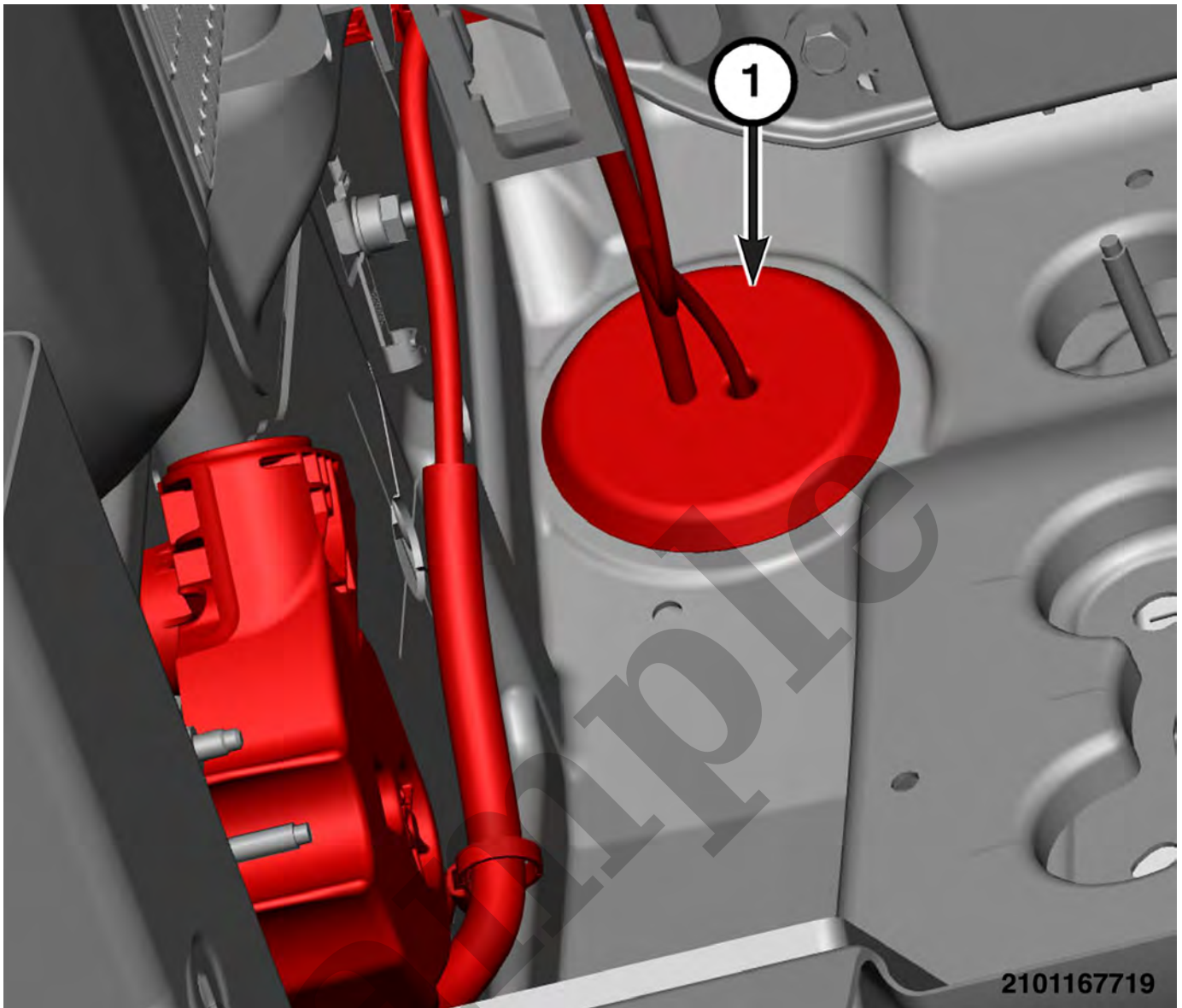
2 - Hood Latch Cable

3 - Hood Latch Bolts

4 - Hood Latch

3. Disconnect the hood latch cable from the hood latch.

4. Remove all the hood latch cable stays from the body.



1 - Grommet

10. Remove the grommet from the bulkhead and pull the cables into the vehicle.

11. Remove the assembly from the vehicle.

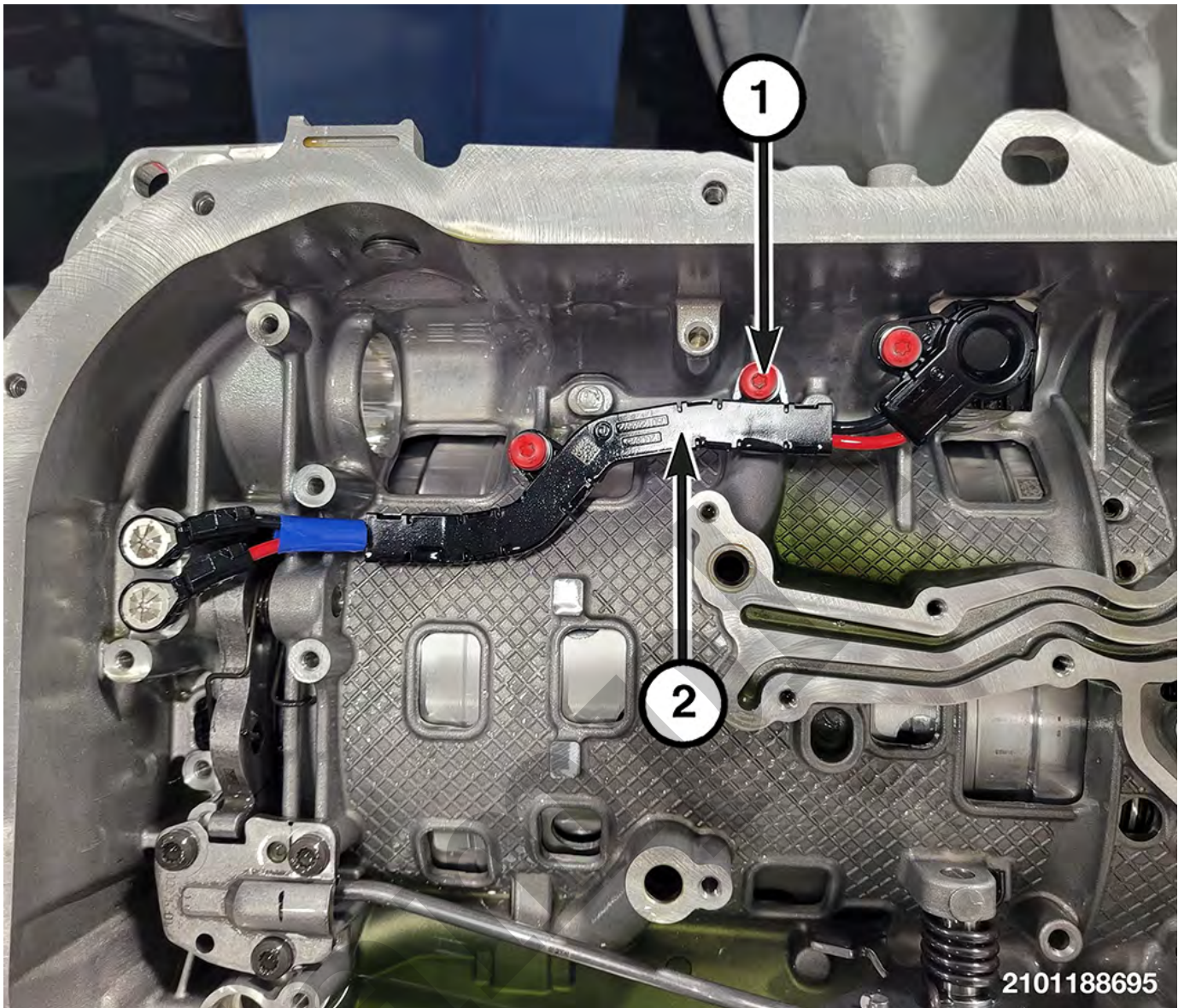
INSTALLATION

Follow the removal procedure in reverse for general reassembly of the components on the vehicle. The steps listed below are calling out specific procedures that should be followed during installation.

- Tighten the MPR Lever Bolts securely.
- Route the cables into the bulkhead and install the grommet into the bulkhead. Verify that the grommet is fully seated to prevent leakage.

TORQUE SPECIFICATIONS - TRANSMISSION - 8P75PH

DESCRIPTION	SPECIFICATION	COMMENT
Blocker to Transmission Bolts	48 N·m (35 Ft. Lbs.)	—
Coolant Hose Bracket to Transmission Nut	8 N·m (71 In. Lbs.)	—
Engine Block to Bell-housing Bolt	48 N·m (35 Ft. Lbs.)	—
Engine Oil Pan to Bellhousing Bolt	50 N·m (37 Ft. Lbs.)	—
High Voltage Cable Bracket to Transmission Bolts	8 N·m (71 In. Lbs.)	—
Integrated Electric Oil Pump (IEP) Bolts	8 N·m (71 In. Lbs.)	—
Manual Park Release Cable Bracket to Transmission Bolts	20 N·m (15 Ft. Lbs.)	—
MGU Harness Trough to Transmission Bolt	5 N·m (44 In. Lbs.)	—
Output Speed Sensor Bolt	8 N·m (71 In. Lbs.)	—
P2 Motor Temperature Sensor	11 N·m (8 Ft. Lbs.)	—
Park Pawl Lock Rod Guide Plate Bolt	10 N·m (89 In. Lbs.)	—
Park Pawl Shaft Plug	35 N·m (26 Ft. Lbs.)	—



1 - IEP Harness Screws

2 - IEP Harness

3. Remove the IEP harness screws and remove the harness.

INSTALLATION

Follow the removal procedure in reverse for general reassembly of the components on the vehicle. The steps listed below are calling out specific procedures that should be followed during installation.

- Tighten the IEP harness screws securely.

Refer To List:

List 1

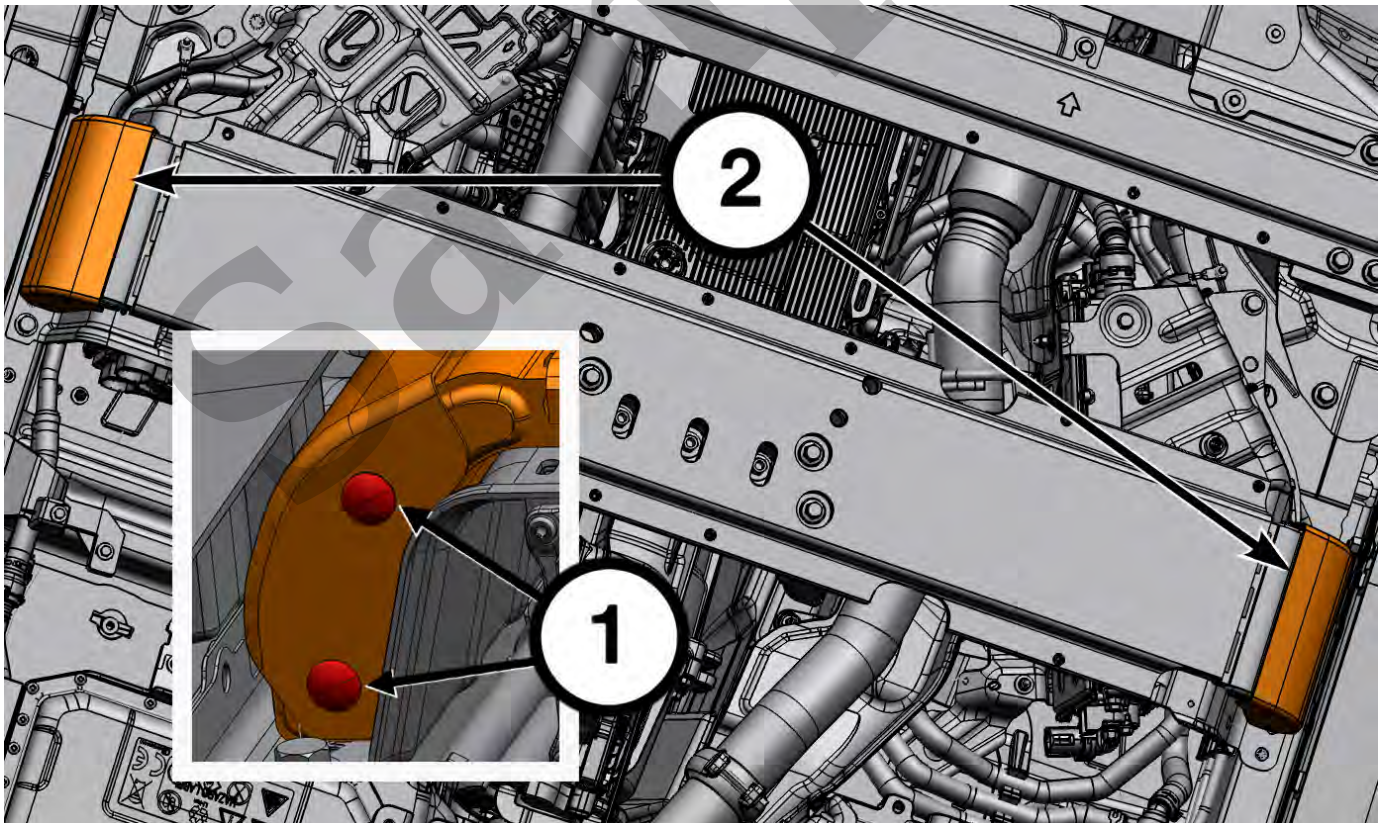
Fragile WiringCaution

CAUTION

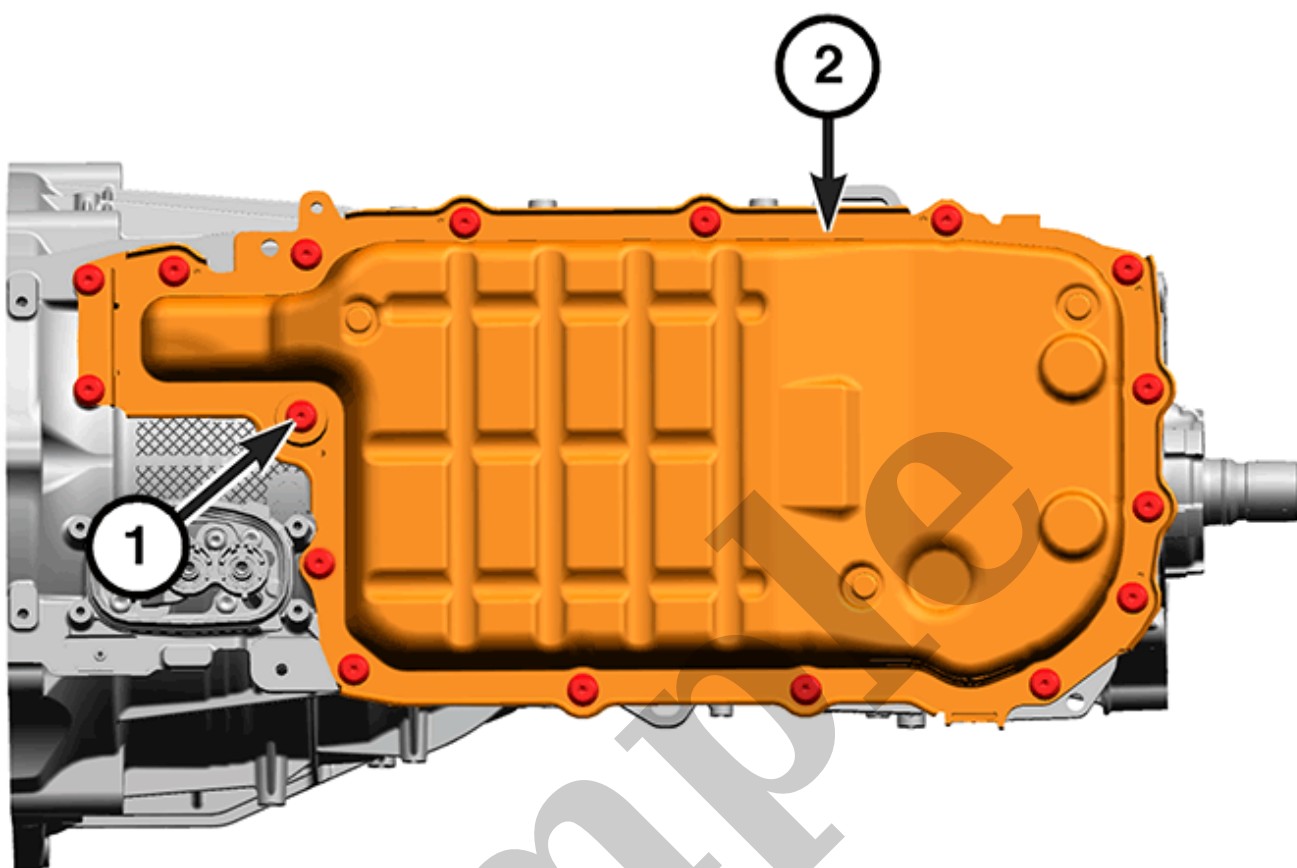
The high voltage wiring is a very fragile, delicate component, so it must be handled with the greatest care. The pre-formed elbows must not be straightened.

REMOVAL

1. Power down the 12-volt system ([Refer to Electrical/Battery System/Standard Procedure](#)).
2. Power down the high voltage system ([Refer to Electrified Powertrain System/High Voltage Battery/Standard Procedure](#)).
3. Raise and support the vehicle ([Refer to Vehicle Quick Reference/Hoisting/Standard Procedure](#)).
4. Remove the stiffening plate ([Refer to Frame and Bumpers/Under Body Protection/PLATE, Stiffening/Removal and Installation](#))([Refer To List 1](#)).
5. Remove the PHEV - front skid plate brace ([Refer to Frame and Bumpers/Frame/CROSSMEMBER/Removal and Installation](#)).



1 - Push-Pins



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1 - Oil Pan Bolts

2 - Transmission Oil Pan Assembly

14. Remove the oil pan bolts.
15. Remove the transmission pan assembly and gasket.