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2003 JEEP Cherokee/Liberty OEM Service and Repair Workshop Manual

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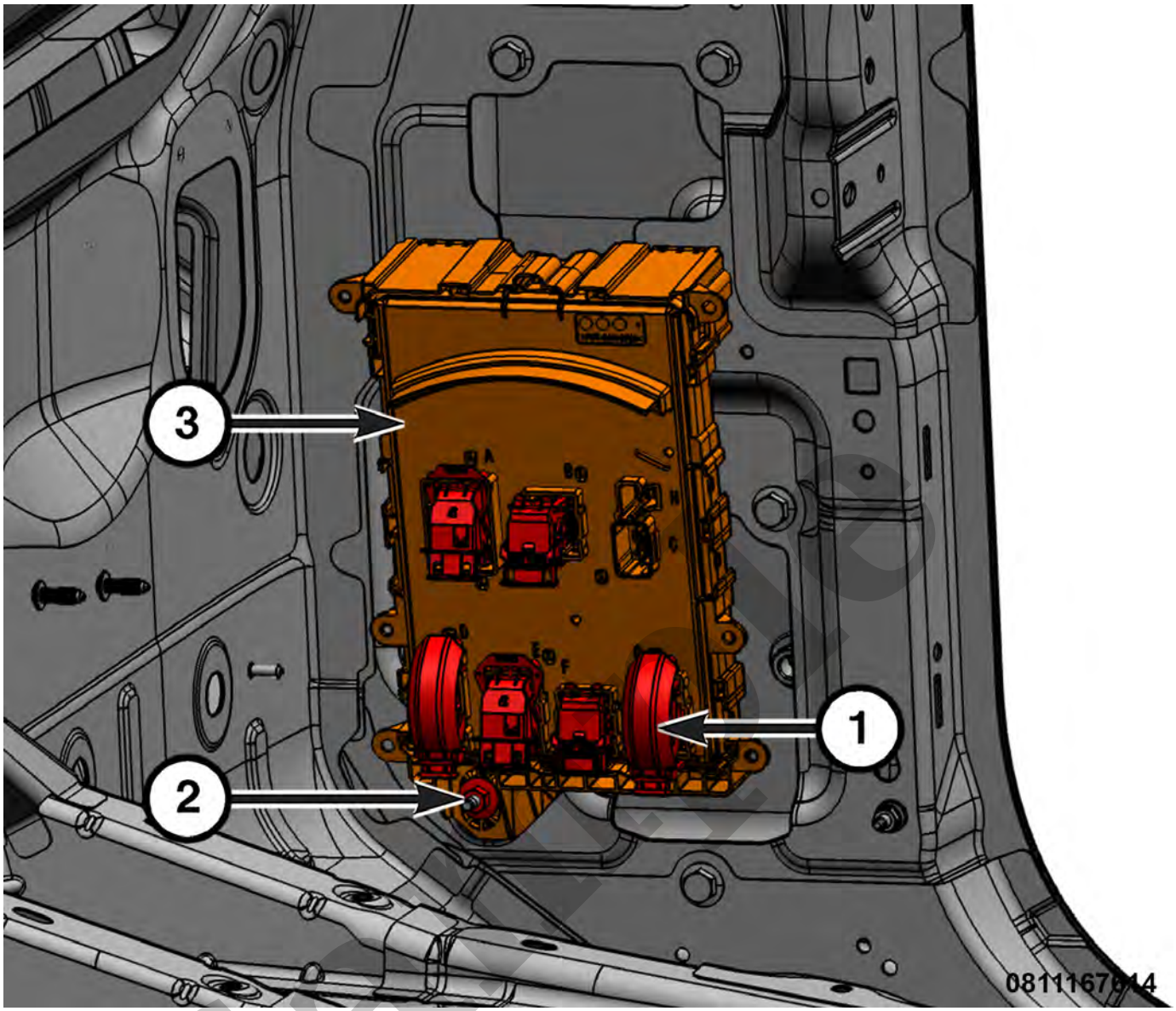


1 - Wire Harness Connectors
2 - Nut
3 - Body Control Module (BCM)

3. Disconnect the wire harness connectors from the BCM on the right side foot well.
4. Remove the nut securing the BCM.
5. Pull the BCM away from the stud and remove the module from the vehicle.

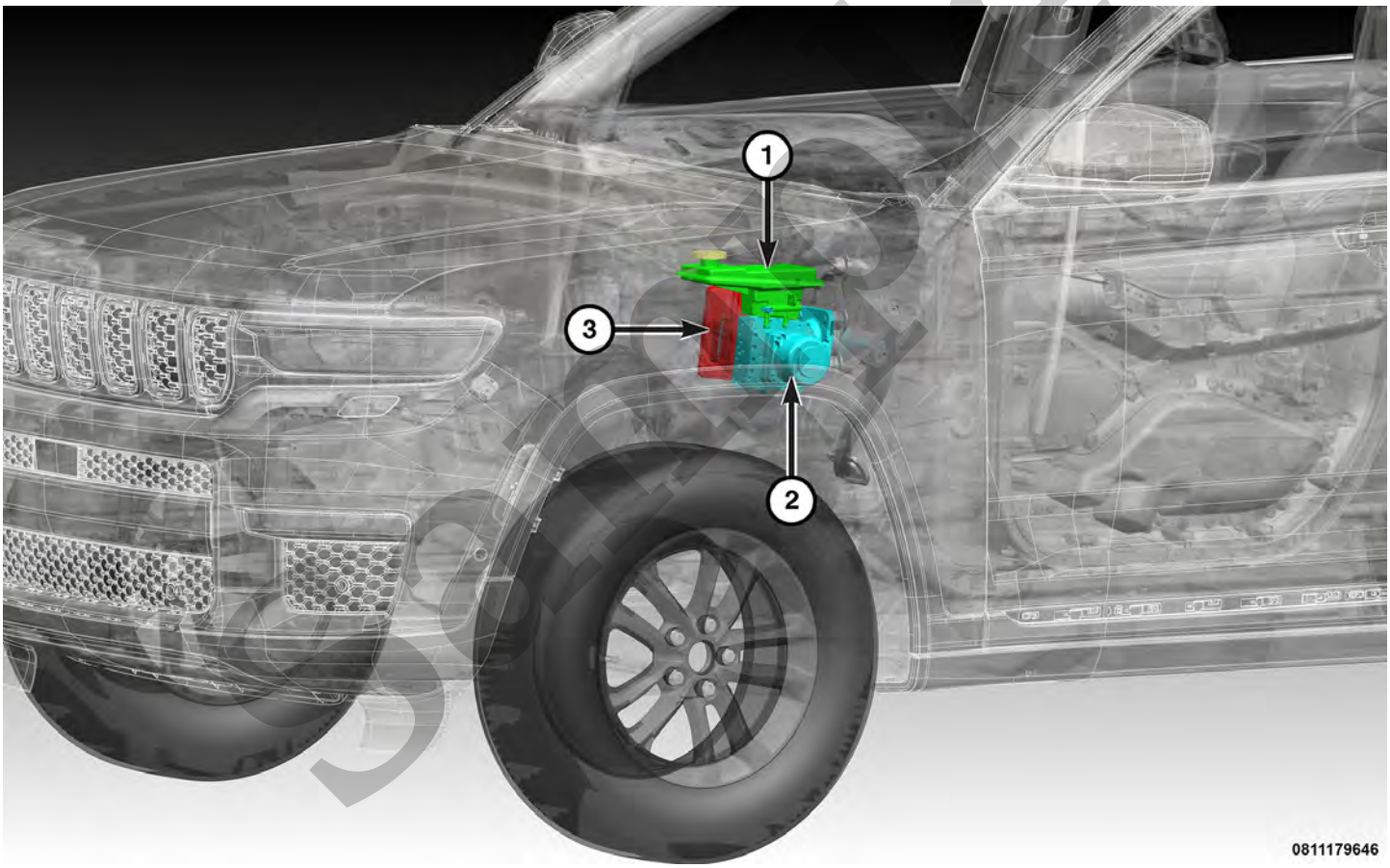
INSTALLATION

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.

Brake System Control Module

BRAKE SYSTEM CONTROL MODULE

DESCRIPTION



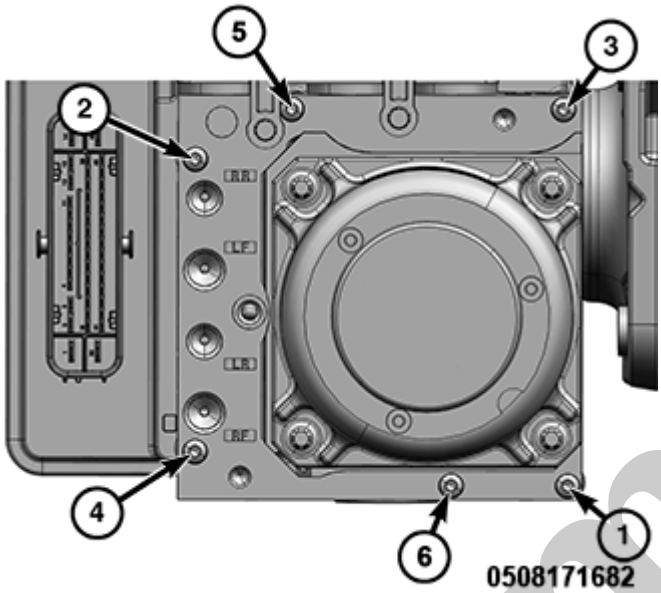
1 - Fluid Reservoir
2 - EBB
3 - BSCM

1 - Brake System Control Module (BSCM) Bolts

2. Remove and **DISCARD** the Brake System Control Module (BSCM) bolts.
3. Remove the BSCM.

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.



1 - BSCM Bolt Tightening Sequence

- Install six **NEW** Brake System Control Module (BSCM) bolts and tighten in sequence, as shown to the correct torque specification.
- Connect the diagnostic scan tool and initialize the BSCM by performing the BSCM Verification Test (Refer to DTC-Based Diagnostics/Brake System Control Module (BSCM)/Standard Procedure)(Refer To List 1).

TORQUE SPECIFICATIONS - BRAKE BOOSTER AND MODULE

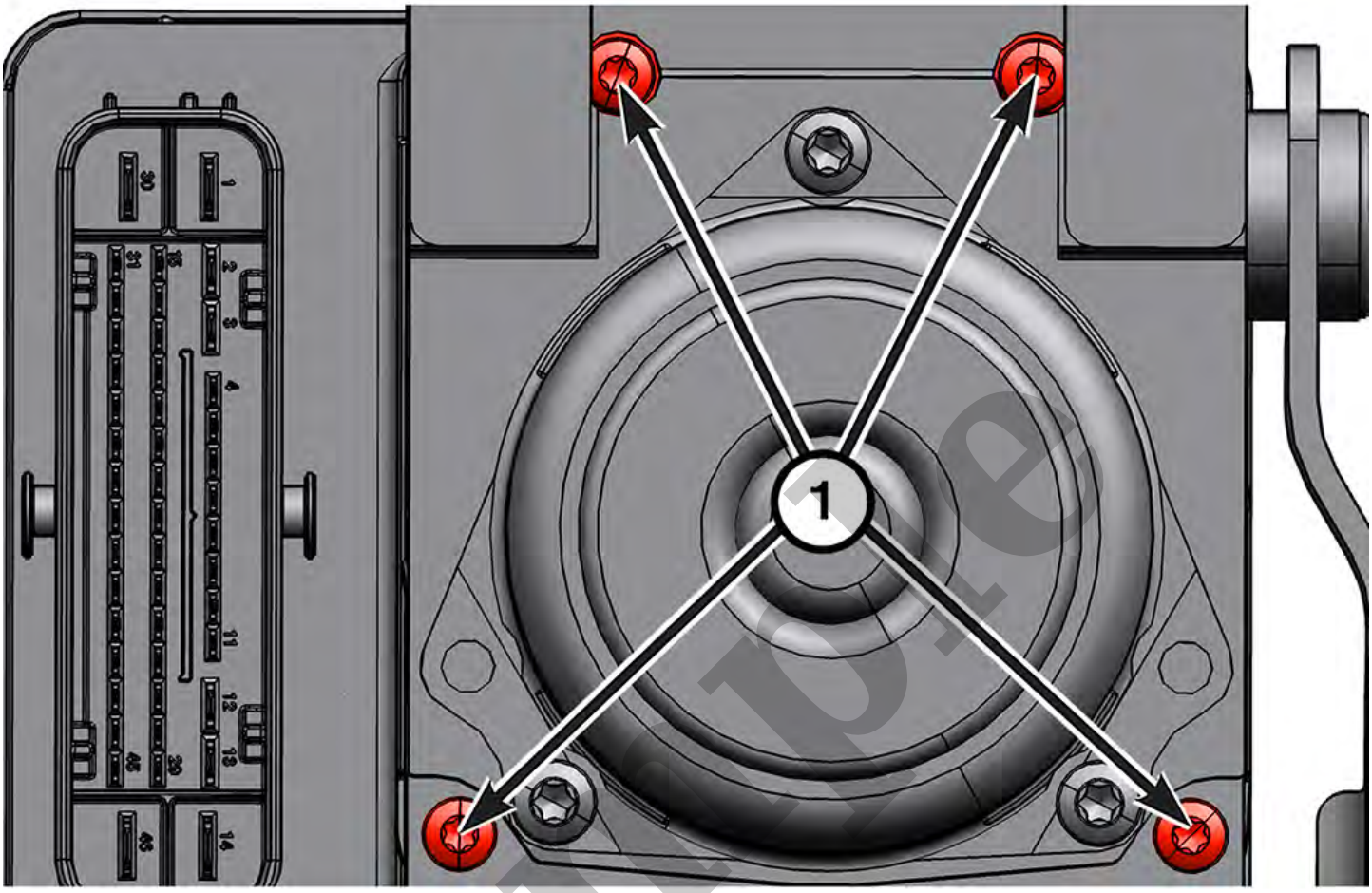
The BSCM2 controls the valve body, pump motor, low pressure accumulators, inlet valves, outlet valves and noise attenuators in the BSCM2 HCU. Accumulators in the valve body store extra fluid released from the calipers during an ABS event operation. The motor is controlled by the BSCM2. The valves modulate brake pressure during antilock braking and are controlled by the BSCM2. During antilock braking, the solenoid valves are opened and closed as needed. They are cycled rapidly and continuously to modulate pressure and control wheel slip and deceleration. Brake Traction Control and Electronic Stability Program modulate pressure on each wheel individually without any driver brake input. The valves are all contained in the valve body portion of the BSCM2 HCU.

The front Wheel Speed Sensor signals are sent to the BSCM2 to be broadcast on the Controller Area Network – Flex Data (CAN-FD) data bus.

The BSCM2 is serviced separately from the BSCM2 HCU.

The BSCM2 is powered by a 50 amp fuse and a 30 amp fuse in the Power Distribution Center (PDC). The BSCM2 receives an ignition RUN/START feed from a 10 amp fuse in the PDC.

For more information on how the BSCM2 operates in the various braking systems, (Refer to Brakes, ABS/Description and Operation).



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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENT
1	Brake System Control Module (BSCM) Bolts (First Stage)	**2.75 N·m (24 In. Lbs.)**	Do not reuse these fasteners. If removed, a new fastener must be installed and tightened to specifications.

Driver Seat Heat Systems

- The element consists of a cushion element connected in parallel with a back element.
- The seat cushion has a thermistor to provide feedback to the CFSM.
- The seat cushion and seat back has a thermostat to automatically open the feed to the heated seat system.
- The heated seat cushion and seat back have a thermostat to automatically open the feed to turn the heated seat system off if the temperature reaches or exceeds the operating parameters programmed to the CFSM.

Passenger Seat Heat Systems

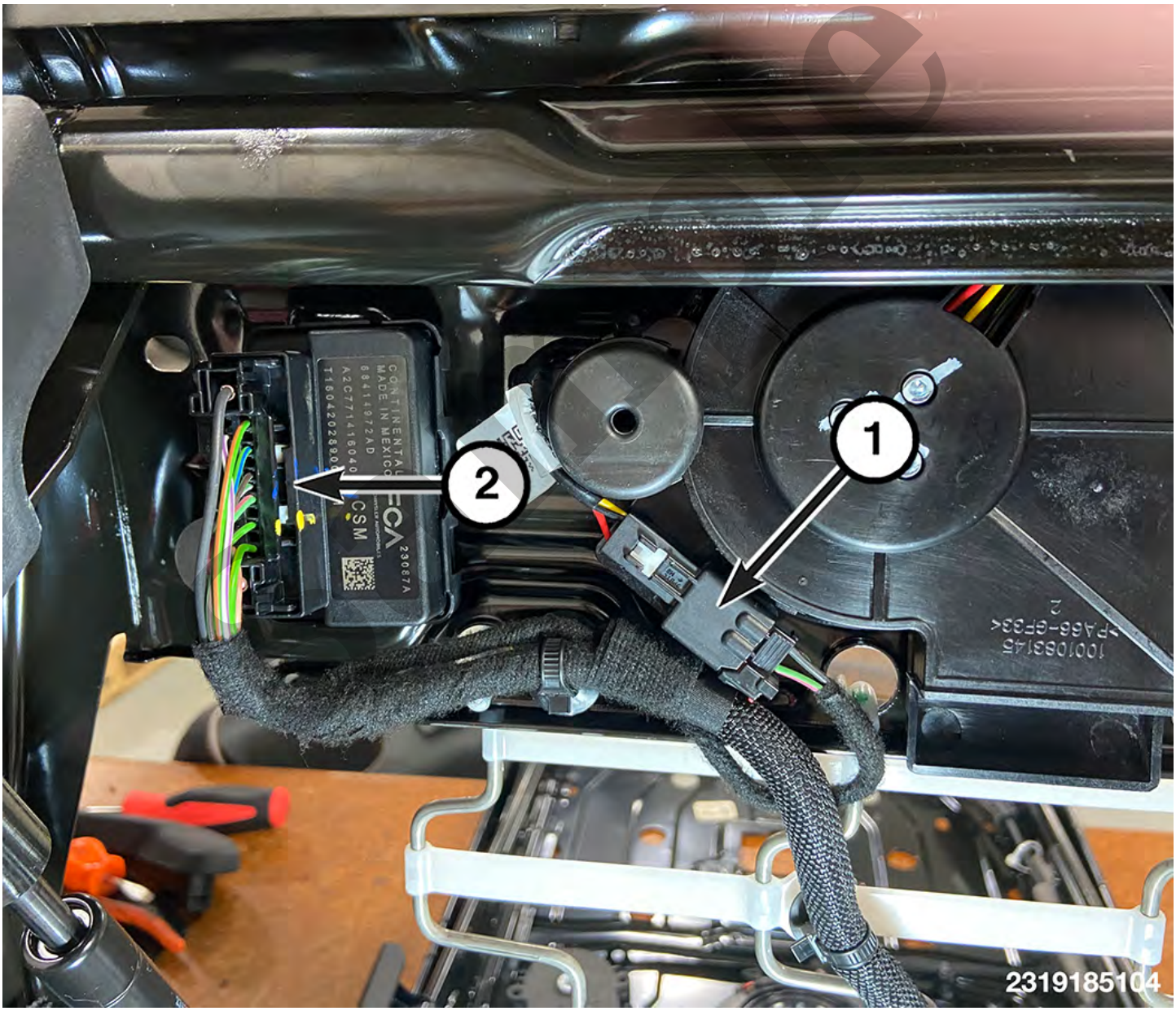
- The element consists of a cushion element connected in parallel with a back element.
- The seat cushion has a thermistor to provide feedback to the CFSM.
- The seat cushion and seat back has a thermostat to automatically open the feed to the heated seat system.
- The heated seat cushion and seat back have a thermostat to automatically open the feed to turn the heated seat system off if the temperature reaches or exceeds the operating parameters programmed to the CFSM.

The CFSM is diagnosed using a diagnostic scan tool. If the module detects a heated seat element OPEN or SHORT circuit, the system will turn off and it will record and store the appropriate Diagnostic Trouble Code (DTC).

YOUR CURRENT VEHICLE

Comfort Rear Seat Module

COMFORT REAR SEAT MODULE



1 - Vent Fan Motor - Long Wheel Base

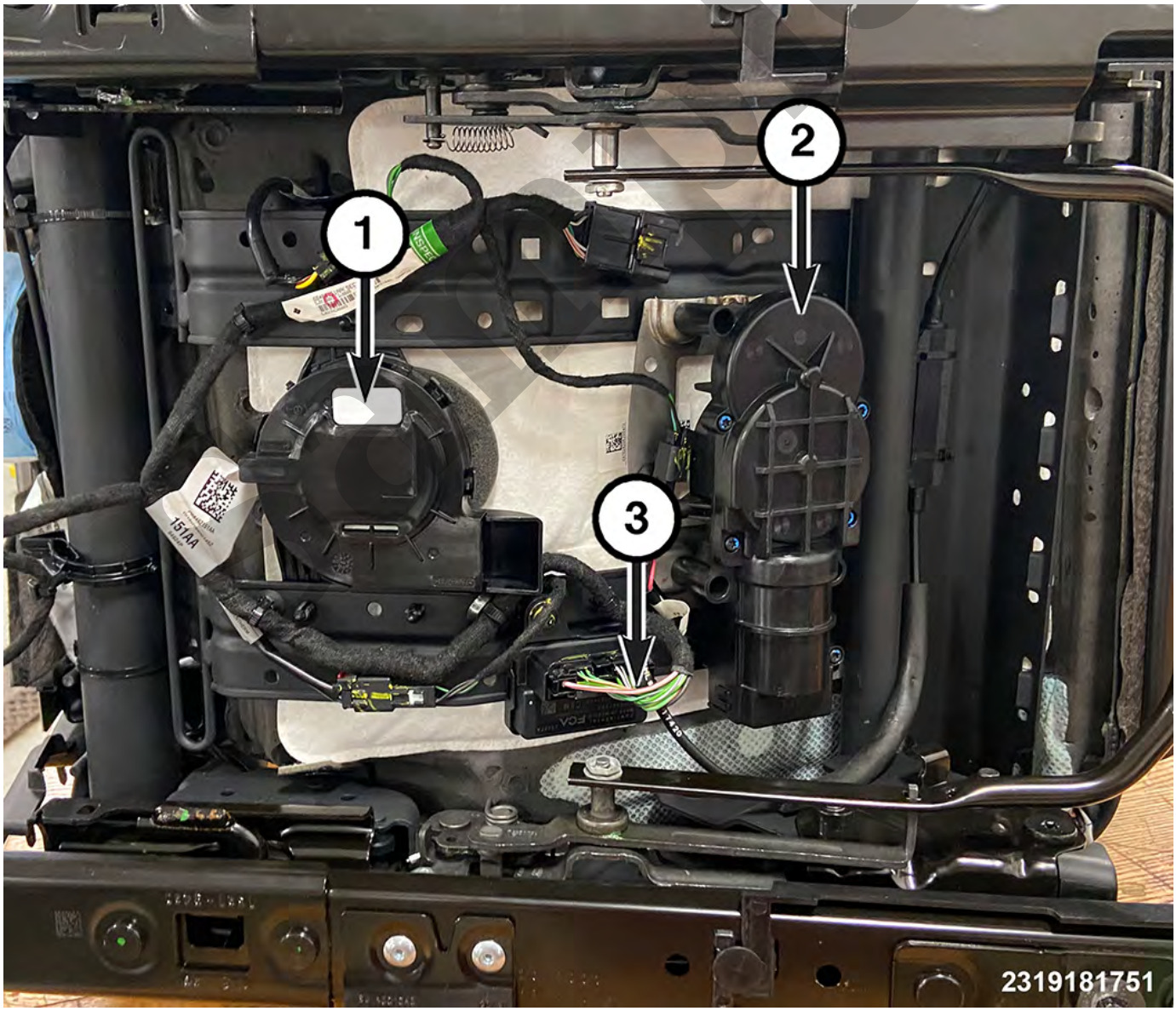
YOUR CURRENT VEHICLE

Comfort Rear Seat Module - Long Wheel Base

COMFORT REAR SEAT MODULE - LONG WHEEL BASE

REMOVAL

1. Tilt the seat to be serviced forward to access the Comfort Rear Seat Module (CRSM).



YOUR CURRENT VEHICLE

Comfort Steering Wheel Surface Module

COMFORT STEERING WHEEL SURFACE MODULE

REMOVAL

1. Remove the steering column opening cover (Refer to 23 - Body/Instrument Panel/COVER, Steering Column Opening/Removal and Installation).
2. Remove the driver side floor duct (Refer to Heating and Air Conditioning/Distribution/DUCT, Floor Distribution/Removal and Installation) .