

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.

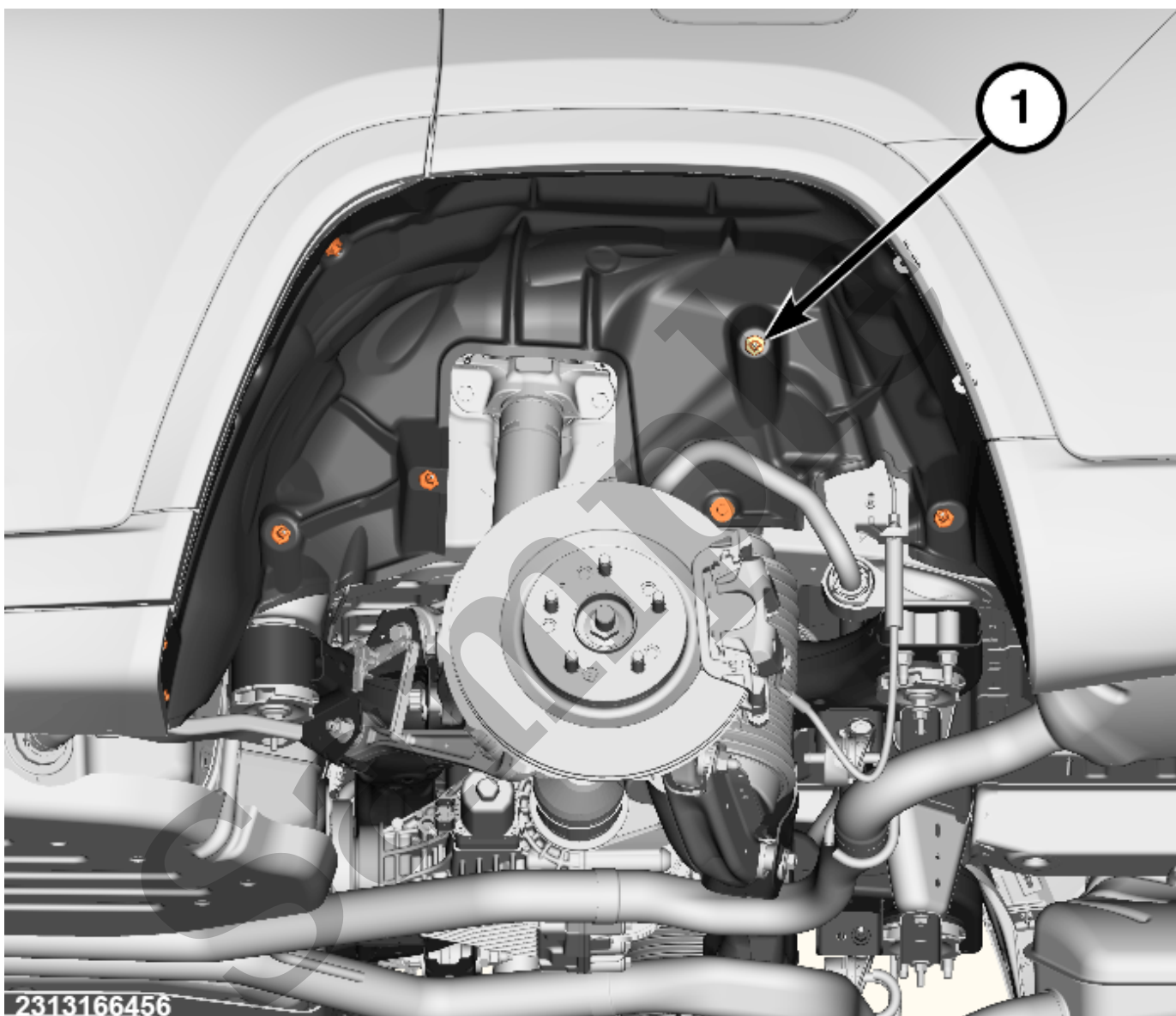
1989 JEEP Wrangler OEM Service and Repair Workshop Manual

[Go to manual page](#)

1 - Bracket

2 - Rivets

2. Remove the rivets and the bracket.



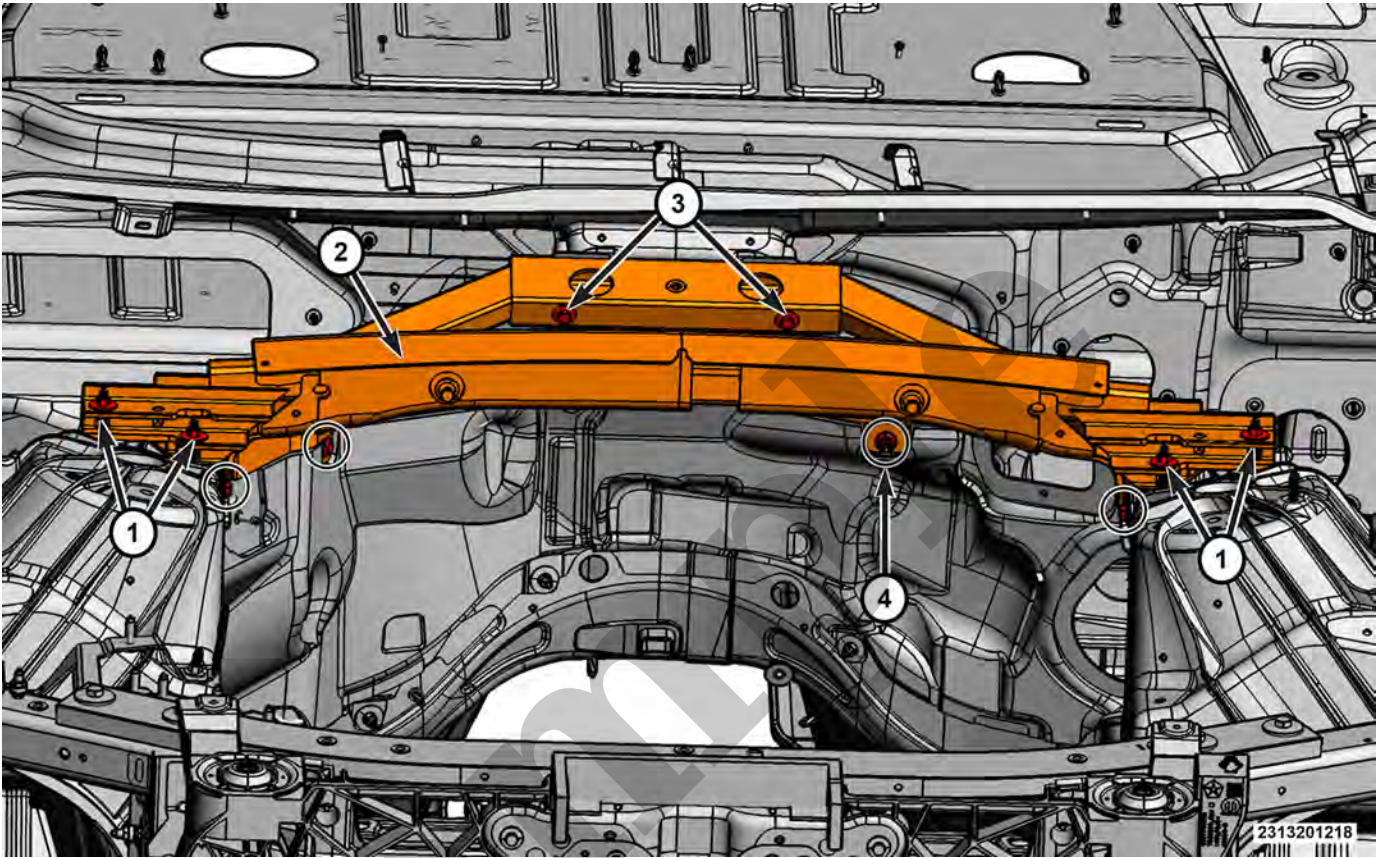
1 - Splash Shield Fasteners

3. Remove the splash shield fasteners from the wheelhouse splash shield.

1 - Push-Pin Fasteners

2 - Foam Seal

2. Remove the fasteners and remove the foam seals from each side.



1 - Shock Tower Brace Nuts

2 - Shock Tower Brace and Upper Cowl Extension Silencer Assembly

3 - Shock Tower Brace Bolts

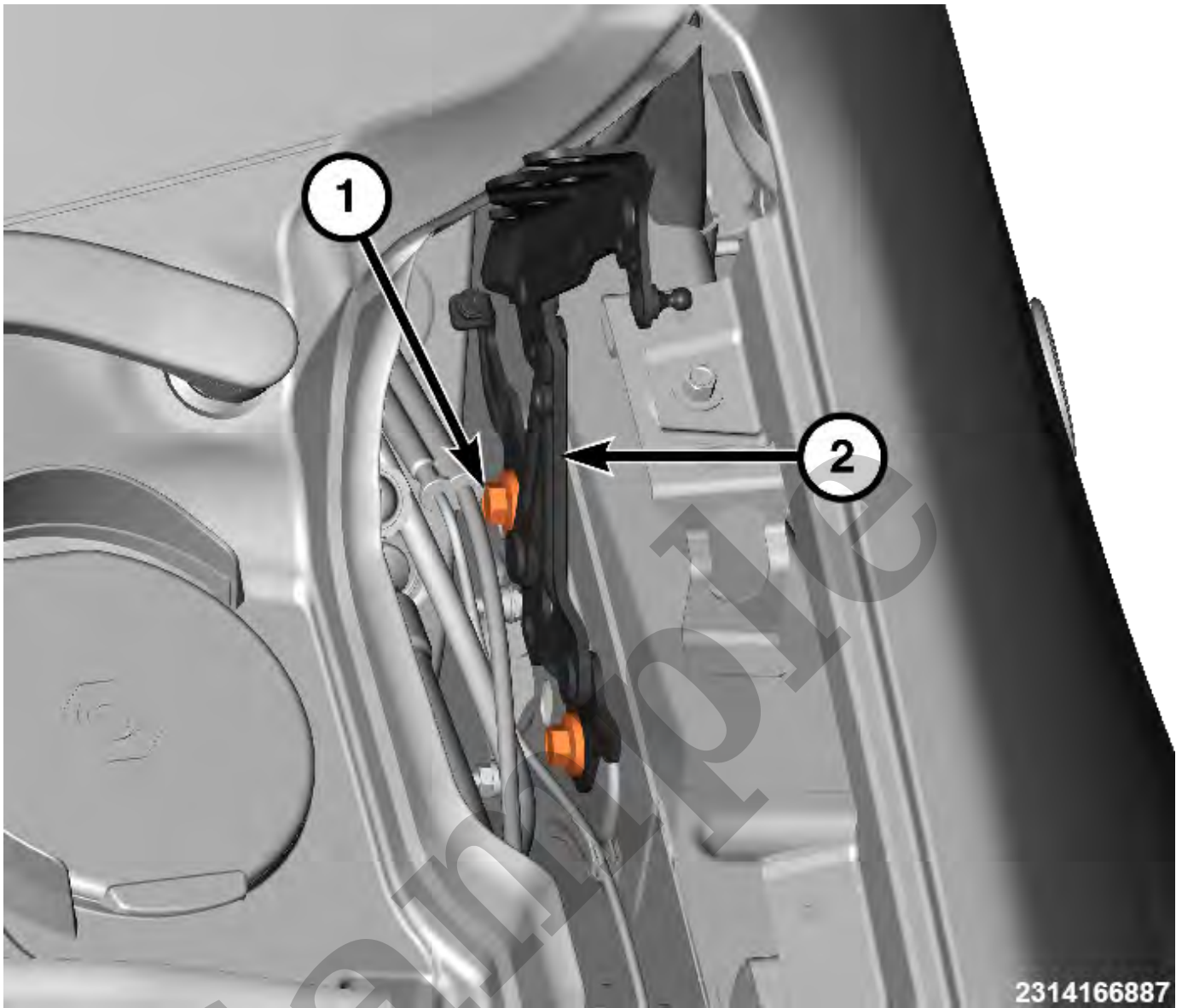
4 - Upper Cowl Extension Silencer Fasteners

3. Remove the shock tower brace nuts and the bolts.

4. Remove the upper cowl extension silencer fasteners.

5. Remove the upper cowl extension silencer and the shock tower brace as an assembly.

DESCRIPTION	SPECIFICATION	COMMENT
Hood Latch Bolts	7 N·m (62 In. Lbs.)	—
Hood Striker Nuts	18 N·m (13 Ft. Lbs.)	—
Outside Rearview Mirror Bolt	9 N·m (80 In. Lbs.)	—
Outside Rearview Mirror Nuts	9 N·m (80 In. Lbs.)	—
Radiator Closure Panel Lower Bolts M8x1.25x47.2	15 N·m (11 Ft. Lbs.)	—
Radiator Closure Panel Side Bolts M10x1.5x35	70 N·m (52 Ft. Lbs.)	—
Radiator Closure Panel Upper Bolts M8x1.25x45	20 N·m (15 Ft. Lbs.)	—
Radiator Closure Panel to Upper Crossmember Bolts	15 N·m (11 Ft. Lbs.)	—
Shock Tower Brace Bolts M6x1.00x96.5	8 N·m (71 In. Lbs.)	—
Shock Tower Brace Nuts M6x1	7 N·m (62 In. Lbs.)	—
Upper Crossmember to Load Beam Bolts	15 N·m (11 Ft. Lbs.)	—
Front Floor to Dash Lower Bolt	17 N·m (13 Ft. Lbs.)	—



1 - Hood Hinge to Body Bolts

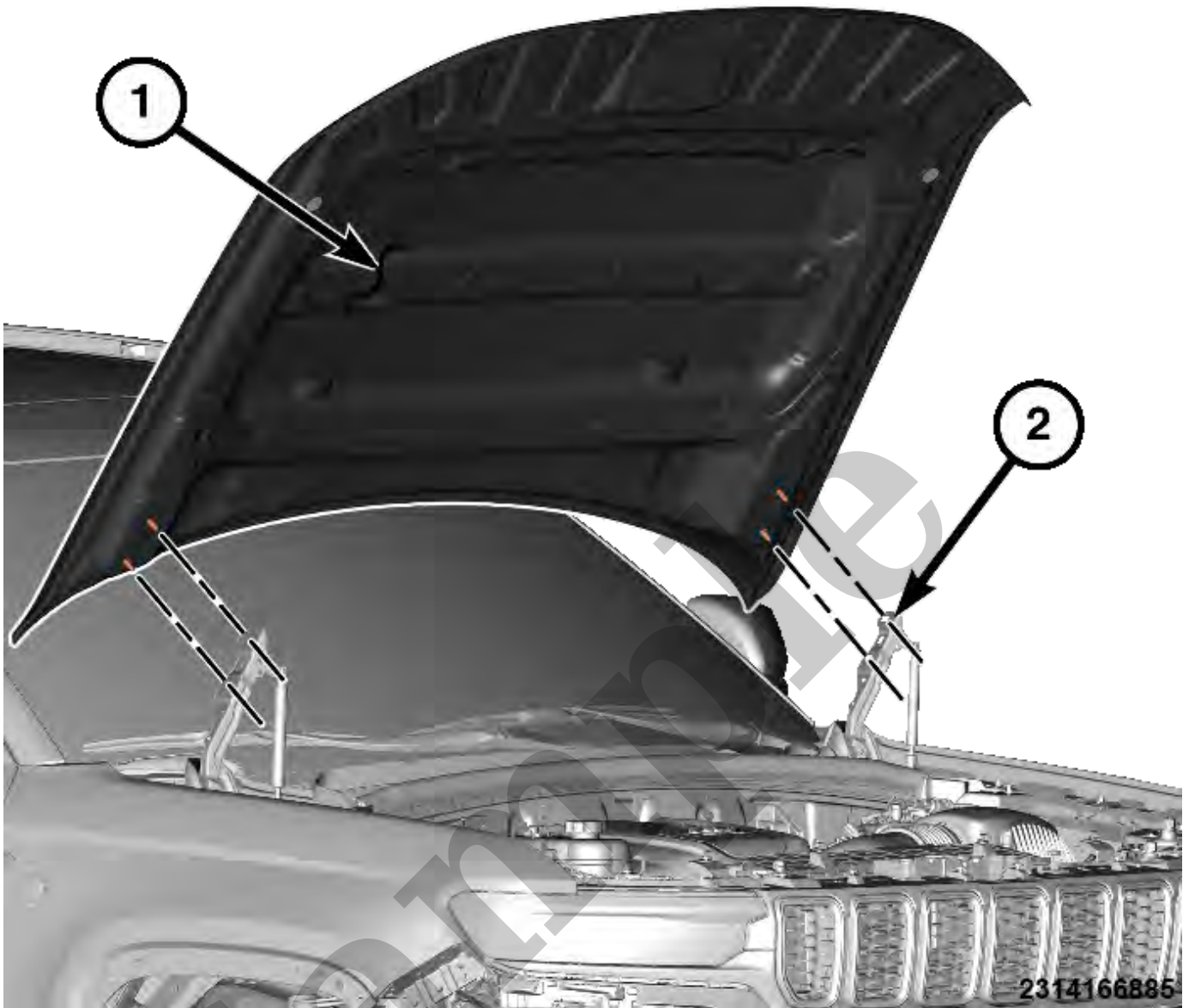
2 - Hood Hinge

4. Using a grease pencil or equivalent, mark the position of the hood hinge on the fender rail for the hinge being serviced.
5. Remove the hood hinge to body bolts from the front aperture extension.
6. Slide the hood hinge forward and remove the hinge.

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.

- Align the hood to the hood hinge using the reference marks made during the removal procedure.



1 - Hood

2 - Hood Hinges

4. Remove the hood from the hinges.

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.

- Align the hood to the hood hinge using the reference marks made during the removal procedure.
- If required, adjust the hood to the correct position ([Refer to Body/Body Structure/Gap and Flush - Specifications](#)).

TORQUE SPECIFICATIONS - EXTERIOR

2. Using a grease pencil or equivalent, mark the position of the hood latch on the upper radiator crossmember.
3. Remove the bolts that secure the hood latch to the upper radiator crossmember.
4. Disconnect the wire harness connector.
5. Disconnect the hood latch cable from the hood latch and remove the latch.

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.

- Align the hood latch to the upper radiator crossmember using the reference marks made during the removal procedure.

TORQUE SPECIFICATIONS - EXTERIOR

DESCRIPTION	SPECIFICATION	COMMENT
Cowl Extension Silencer Nuts M6x1	8 N·m (71 In. Lbs.)	—
Dash D Grommet to Panel Nut	9 N·m (80 In. Lbs.)	—
Fender Bolts	7 N·m (62 In. Lbs.)	—
Ground Wire to Body Nut	11 N·m (8 Ft. Lbs.)	—
Hood Hinge to Body Bolts	20 N·m (15 Ft. Lbs.)	—
Hood Hinge to Hood Nuts	23 N·m (17 Ft. Lbs.)	—
Hood Latch Bolts	7 N·m (62 In. Lbs.)	—
Hood Striker Nuts	18 N·m (13 Ft. Lbs.)	—
Outside Rearview Mirror Bolt	9 N·m (80 In. Lbs.)	—
Outside Rearview Mirror Nuts	9 N·m (80 In. Lbs.)	—
Radiator Closure Panel Lower Bolts M8x1.25x47.2	15 N·m (11 Ft. Lbs.)	—
Radiator Closure Panel Side Bolts M10x1.5x35	70 N·m (52 Ft. Lbs.)	—

CAUTION

Do not pull on the hood support cylinders at the middle of the support cylinder during removal. Failure to follow this caution can result in damage to the hood support cylinders.

- Using a small flat bladed tool, or equivalent, release the retaining clips at each end of the gas prop while carefully pulling the ball socket away from the ball studs.

NOTE

Lift the retaining clips only enough to release the ball studs.

- Disconnect the hood gas prop from the hinge and the fender rail.

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.

CAUTION

Do not push on the hood support cylinders at the middle of the support cylinder during installation. Failure to follow this caution can result in damage to the hood support cylinders.

- Install the hood gas props with the cylinder end connected to the hood as shown.
- If required, only release each retaining clip enough to install the ball socket onto the ball stud.

Instrument Cluster Bezel

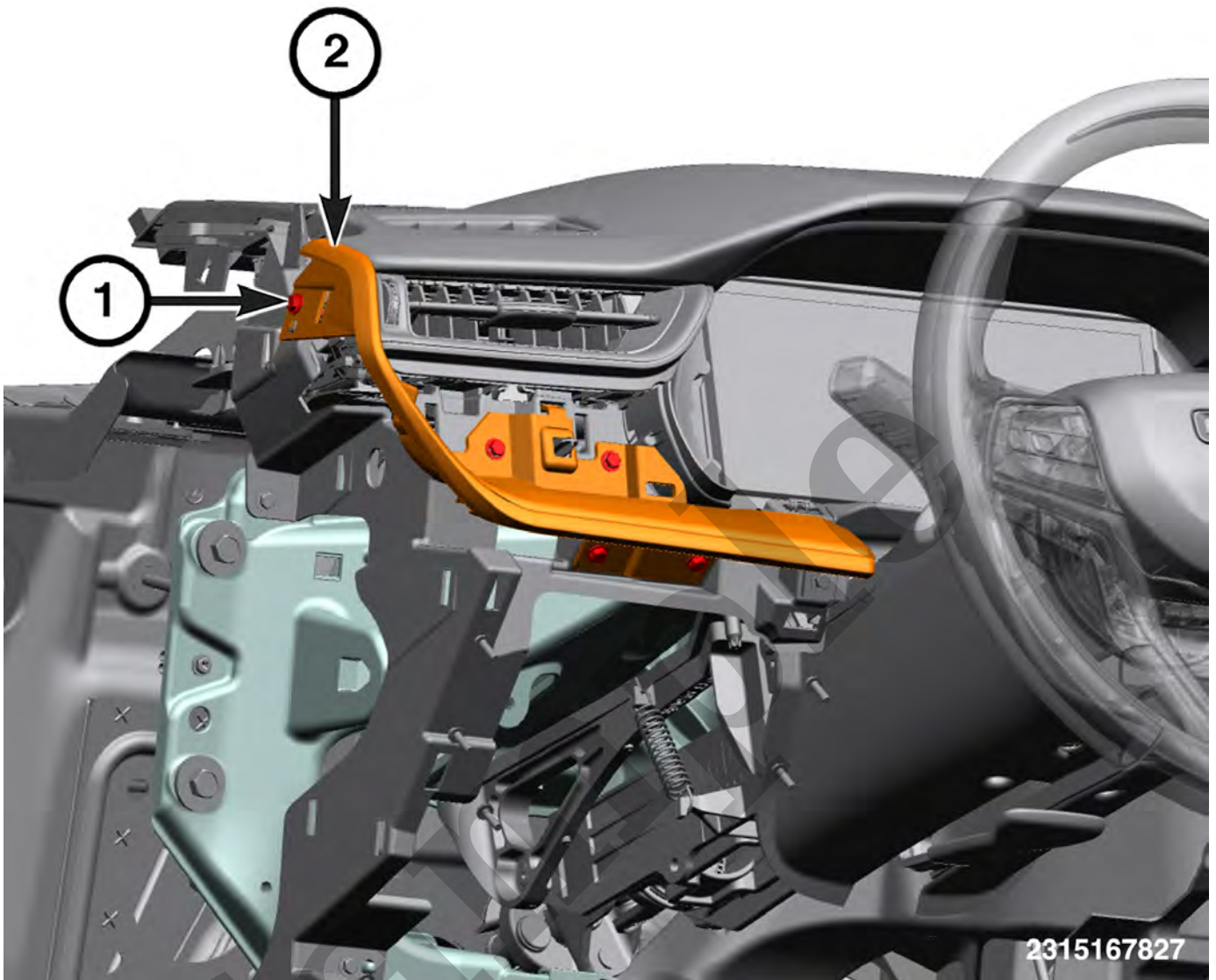
INSTRUMENT CLUSTER BEZEL

REMOVAL

WARNING

On vehicles equipped with airbags, disable the airbag system before attempting any steering wheel, steering column, seat belt tensioner, or instrument panel component diagnosis or service. Disconnect and isolate the battery negative (ground) cable, then wait two minutes for the airbag system capacitor to discharge before performing further diagnosis or service. This is the only sure way to disable the airbag system. Failure to take the proper precautions could result in accidental airbag deployment and personal or fatal injury.

1. Remove the left side instrument panel trim panels ([Refer to Body/Instrument Panel/PANEL, Instrument Panel Trim/Removal and Installation](#)).



1 - Fasteners

2 - Left Outboard Applique Trim

5. Remove the fasteners from the instrument panel left outboard applique trim. If equipped, disconnect wire harness connector and remove from vehicle.