

ACCESSORIES & EQUIPMENT

Sunroof (Sedan)

60 SUNROOF

DESCRIPTION AND OPERATION

SUNROOF

SUNROOF OVERVIEW

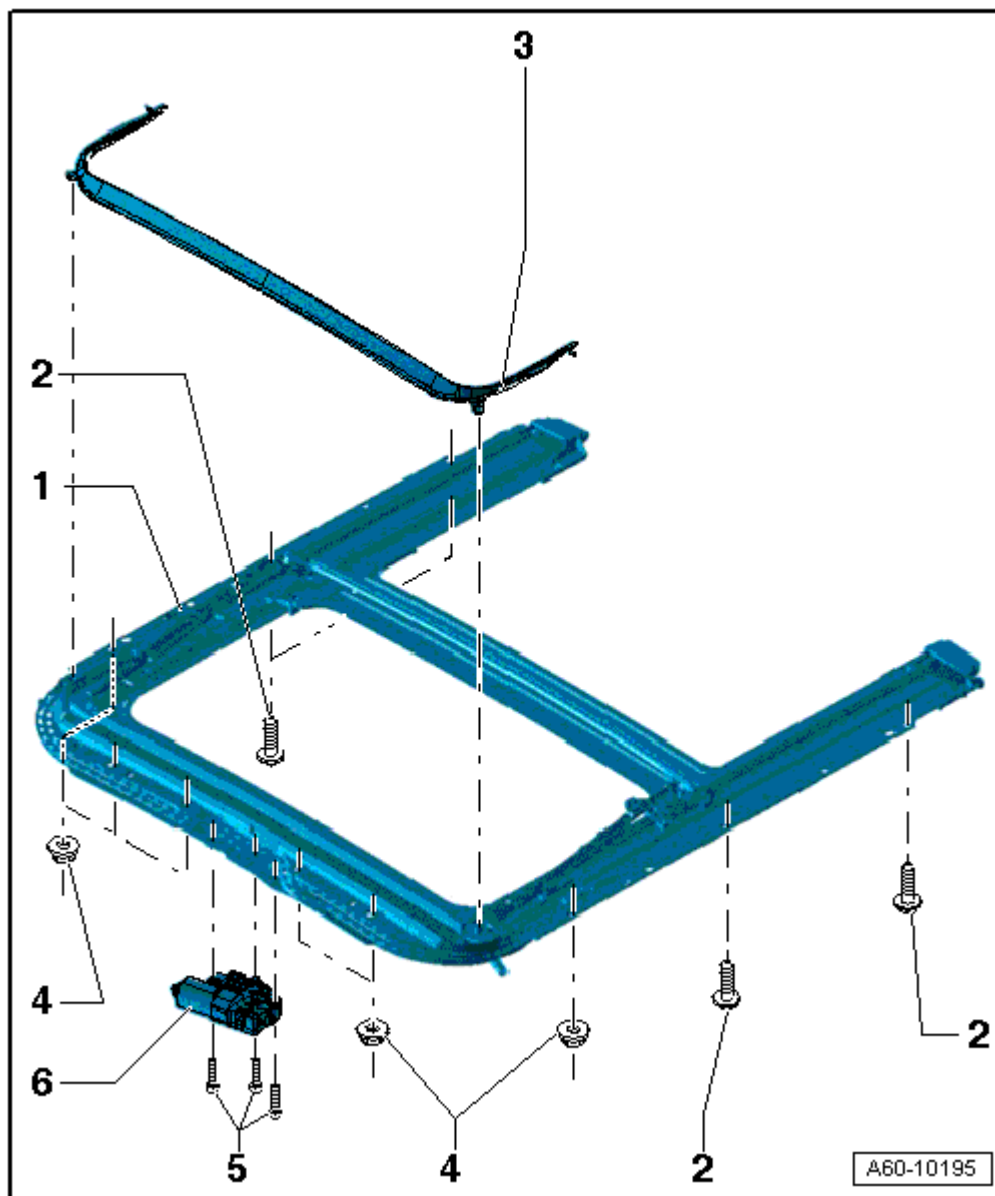


Fig. 1: Identifying Sunroof

Courtesy of AUDI OF AMERICA, LLC

1. Frame

• **Removal:**

- Fold the seat backrest all the way back.
- Lower the headliner. Refer to **Removal and Installation** .
- Sunroof panel removed
- Remove the water drain hoses.

-- Remove the nuts -4- and screws -2- on the frame.

-- Lift the frame through the rear door and out of the vehicle.

• **Installing:**

-- Attach the frame with the nuts and screws loosely to the roof.

-- Connect the water drain hoses.

-- Secure the frame in the bodying using a 12 mm drill bit on the front right side and a 10 mm drill bit **ATTACHING POINTS FOR THE FRAME** and then tighten the nuts to the tightening specification beginning at the front center and working back on the left and right sides.

-- Tighten the screws in the same sequence to the tightening specification.

2. Bolt

- 8 Nm

3. Wind Deflector

- Removal, refer to **WIND DEFLECTOR**.

4. Nut

- 8 Nm

5. Bolt

- 4 Nm

6. Motor

• **Removing**

NOTE: **Remove the motor only when the cover is closed.**

-- Interior lamps removed.

-- Disconnect the motor connectors.

-- Remove the screws -5- and remove the motor through the headliner cut-out.

- Perform an adaptation after removing and installing a motor. Refer to **MOTOR ADAPTATION**.

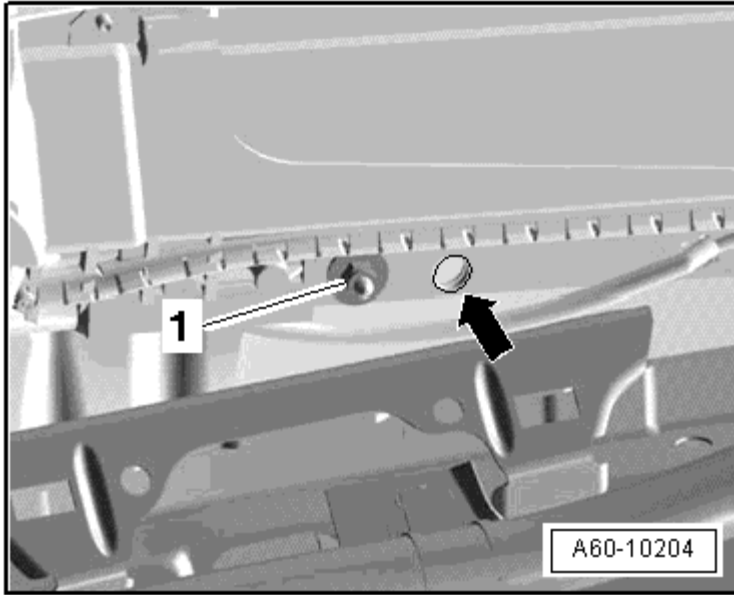
ATTACHING POINTS FOR THE FRAME

Fig. 2: Identifying Attaching Points For Frame
Courtesy of AUDI OF AMERICA, LLC

-- When installing the sunroof, the frame must be attached at the front right side -arrow- from the first nut -1- with a 12 mm drill and the rear left side (oblong hole) -arrow- (in illustration A60-10205) in front of the last screw -1- with a 10 mm drill.

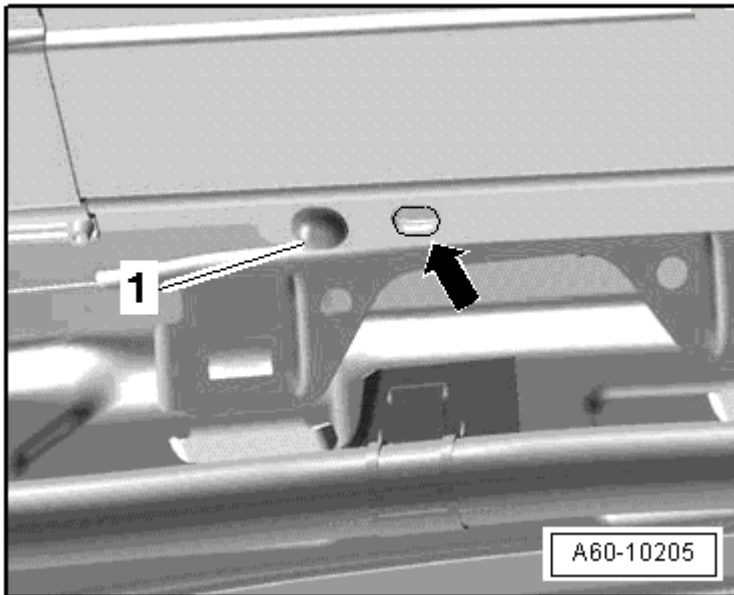


Fig. 3: Installing Sunroof Frame Must Be Attached At Front Right Side From First Nut
Courtesy of AUDI OF AMERICA, LLC

-- Starting from the center, tighten the nuts and screws from the front and working toward the rear to the

tightening specification. Refer to **SUNROOF**.

SUNROOF PANEL OVERVIEW

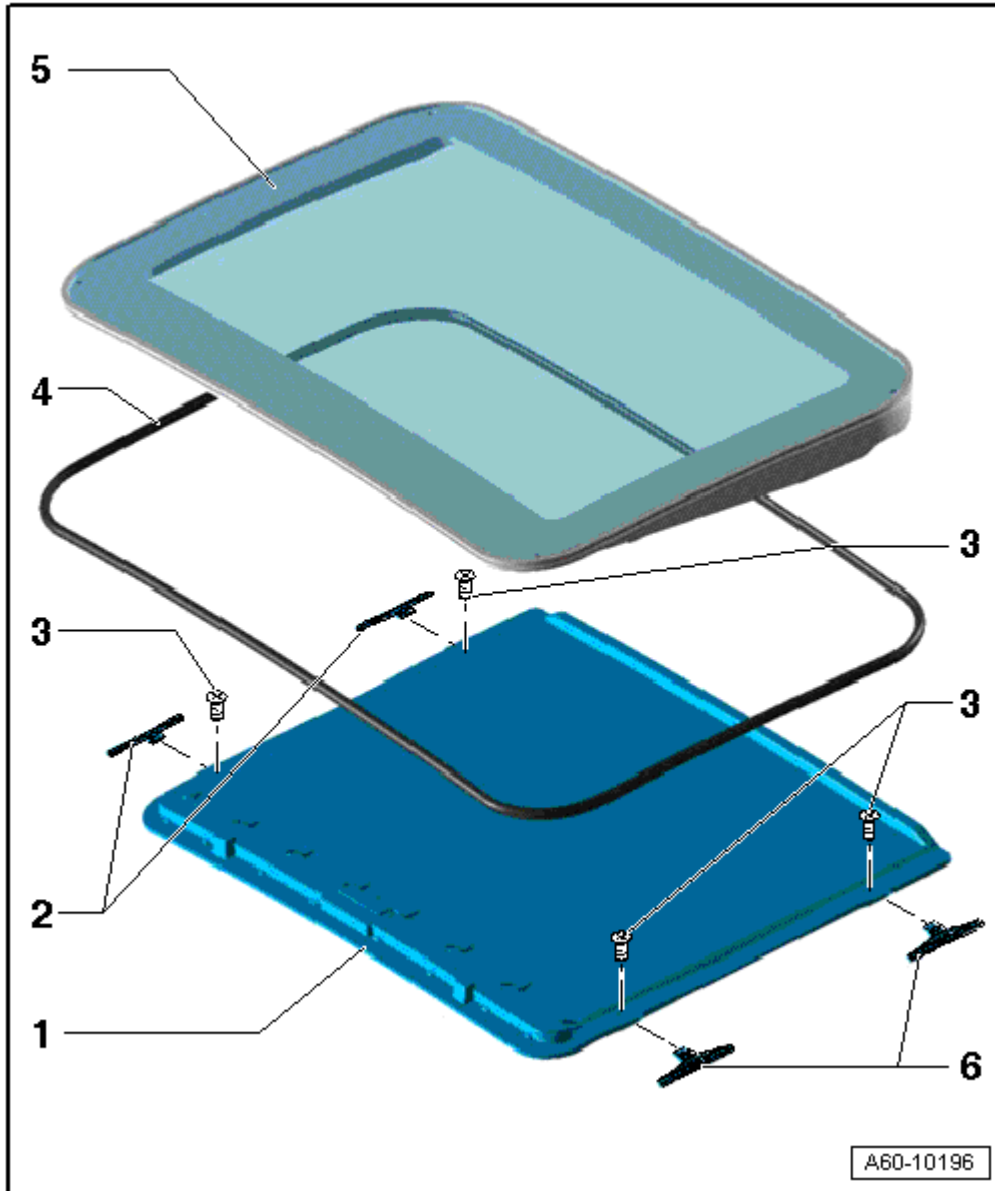


Fig. 4: Identifying Sunroof Panel

Courtesy of AUDI OF AMERICA, LLC

1. Sliding Headliner

- Only for vehicles with glass panel.
- Remove the sunroof panel before removal.
- Removal, refer to **SLIDING HEADLINER**.

2. Right Sunroof Spring

- Remove the headliner cover frame before removing. Refer to **Removal and Installation**

- To remove, remove the screw -7- at front and rear.
 - Push front spring -2- forward and rear spring rearward, remove both from sliding headliner.
 - Remove sliding headliner sideways from opposite guide rail and remove upward.
3. Bolt
 - 1.5 Nm
 4. Seal
 - Replacing, refer to **PANEL SEAL**.
 5. Sunroof Panel
 - Tilt sunroof panel to remove.
 - Boot removed. Refer to **BELLOWS**.
 - Remove the left and right screws on the sunroof panel and remove the panel.
 - Adjusting, refer to **SUNROOF PANEL, ADJUSTING**.
 6. Left Sunroof Spring

Sliding Headliner Spring

SUNROOF PANEL, ADJUSTING

-- Perform height adjustment at front and rear according to illustration to prevent wind noise.

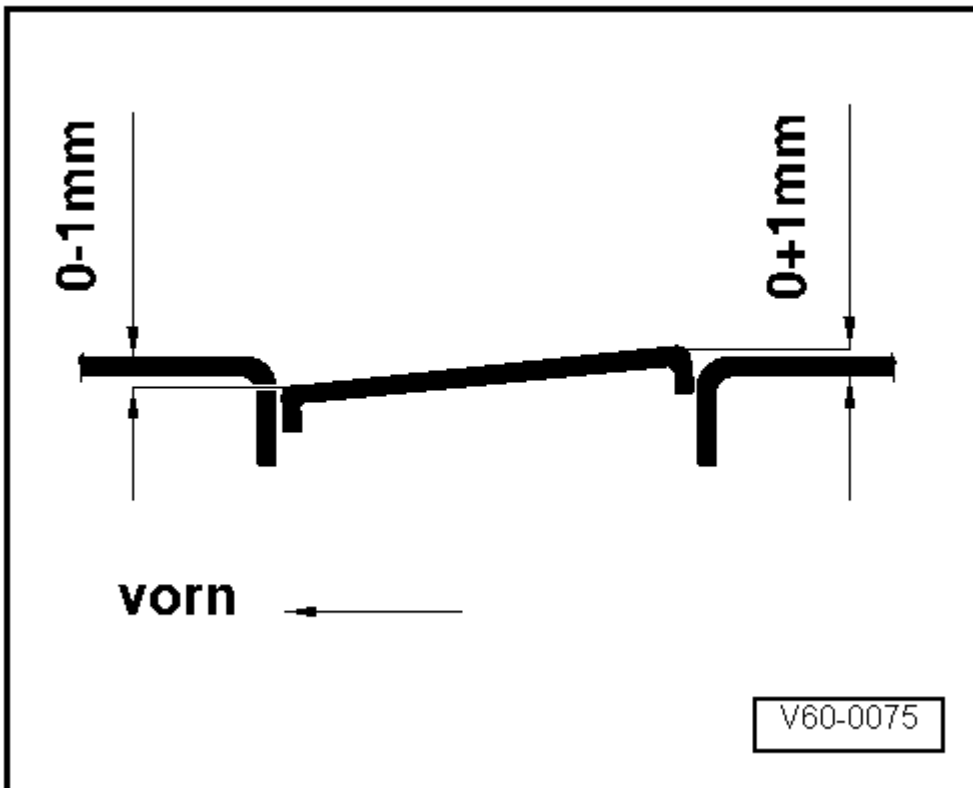


Fig. 5: Sunroof Panel, Adjusting

Courtesy of AUDI OF AMERICA, LLC

- Check height adjustment at each point, left and right, where rounded portion of roof opening merges with straight portion.
- Sunroof panel should not be higher than roof at any point at front or lower than roof at any point at rear.
- When adjusting sunroof panel height, start by running sunroof from open position (not tilted open) into closed position.

MOTOR ZERO POSITION, ADJUSTING

- Motor is removed, electrical harness connections connected.
- Move rotary control to "roof closed" position.
- Motor automatically runs to zero position and switched off.
- Install motor in this position with sunroof closed.

MOTOR ADAPTATION

NOTE: In order for the sunroof to work correctly after the motor has been removed/installed or replaced, perform an adaptation.

Sunroof motor

- Switch on the ignition and close the doors, if necessary, close the sunroof.
- Pull the sunroof switch and hold for 10 seconds.
- The sunroof panel will lift, it will open all the way and then it will close.
 - Keep the sunroof switch pulled during the adaptation process,
 - Now the adaptation procedure is completed.

NOTE: If new motors have been installed, then the adaptation process will start 10 seconds after the switch has been activated.

SLOTTED GUIDE RAIL ZERO POSITION, CHECKING AND ADJUSTING**Checking**

Zero position can only be checked when sunroof panel is installed.

- Boot removed.

- Drive back sunroof panel and close again.
- On vehicles with glass panel, slide sliding headliner completely toward rear.
- Close sunroof.
- For a correct zero position, guide pins -1- in center on tilting mechanism must align with marking -arrow- on link guide -2-.

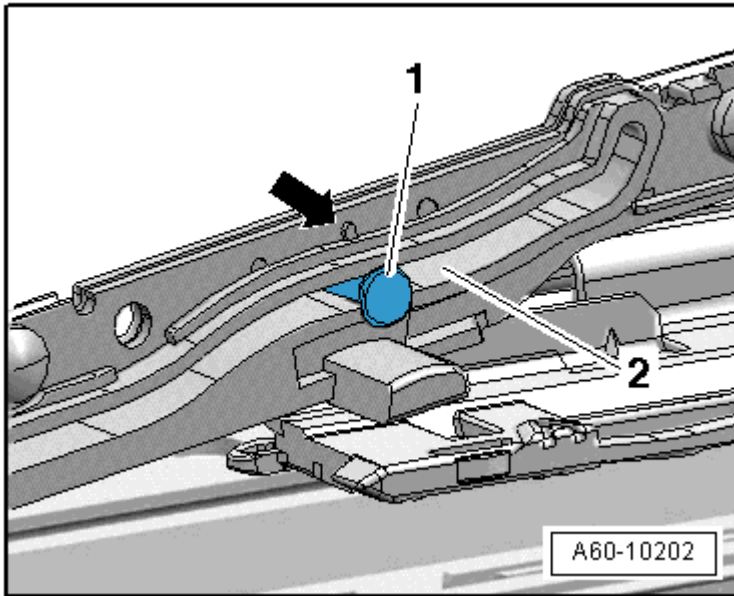


Fig. 6: Correct Zero Position Guide Pins In Center On Tilting Mechanism
Courtesy of AUDI OF AMERICA, LLC

Adjusting

- Sunroof motor removed.
- Sunroof panel removed
- Push the slotted guide rail on both sides by hand into the zero position.
- Adjust and install the motor in the zero position.

WATER DRAIN HOSES

WATER DRAIN HOSES

Special tools and workshop equipment required

- Cleaning and Insertion Aid VAS 6620

NOTE: Use for cleaning the water drain hoses.

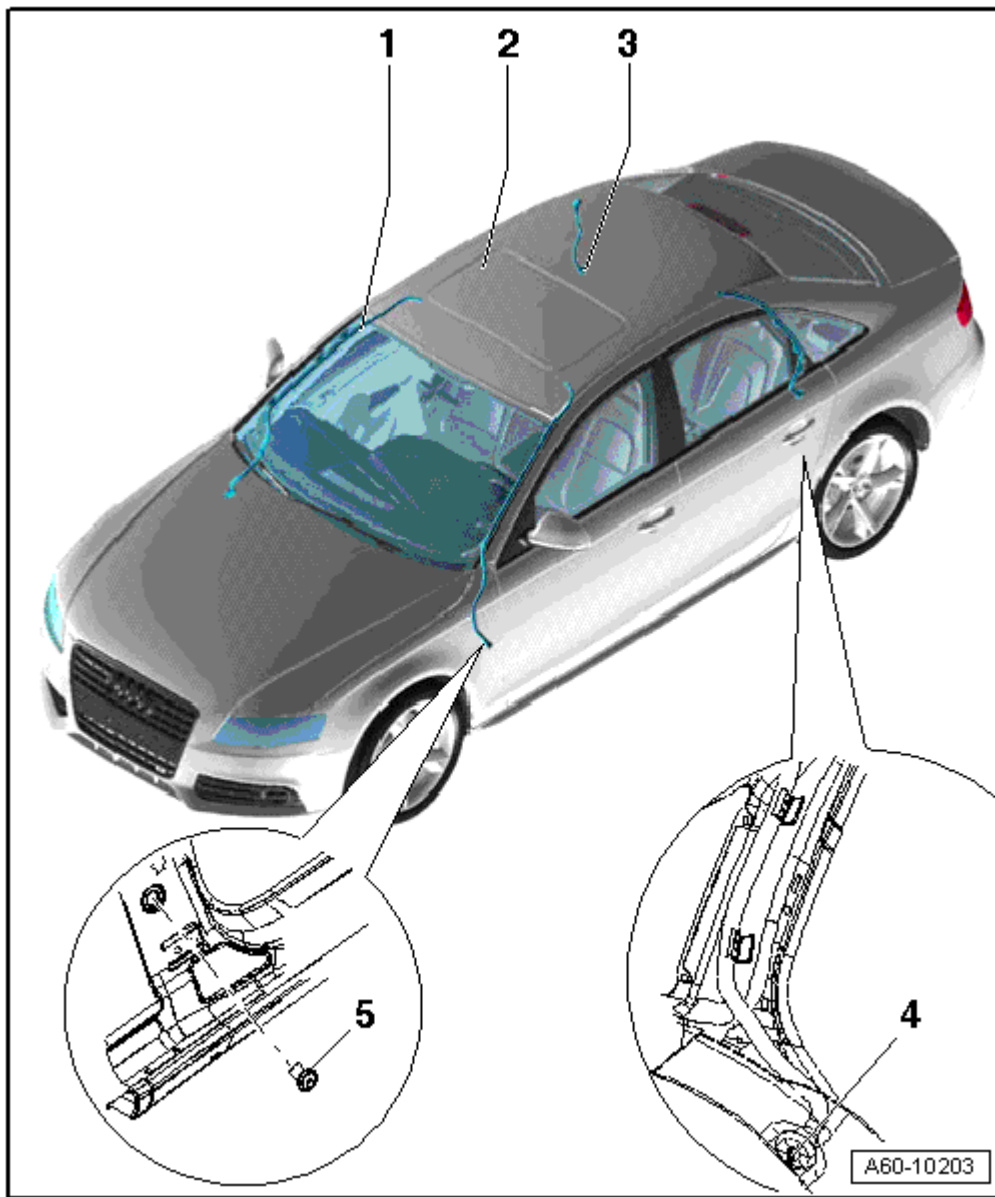


Fig. 7: Identifying Water Drain Hoses
Courtesy of AUDI OF AMERICA, LLC

1. Front Water Drain Hose

• **Removing**

-- Clip the front water drain hose onto the A-pillar and end between the door and A-pillar.

-- When removing, the upper and lower A-pillar trim must be removed, refer to **Removal and Installation** .

-- Remove the water drain hose on the sunroof, remove the grommet on the A-pillar and pull it downward.

-- They are cleaned from the sunroof opening.

- Installation

-- Pull the water drain hose completely upward from underneath on the A-pillar.

-- Press the grommet onto the A-pillar and connect the water drain hose to the sunroof.

-- Install the water drain hose on the A-pillar in the mount.

- They are cleaned from the sunroof opening.

2. Sunroof

3. Rear Water Drain Hose

- **Removing**

-- The rear water drain hoses are routed in the C-pillars and end on the side under the wheel housing liner.

-- Remove the C-pillar and D-pillar trim and lower the rear headliner, refer to **Removal and Installation** .

-- Remove the water drain hose on the rear sunroof

-- Loosen the rear wheel housing liner in the front area and push it aside until the water drain hose grommet is accessible.

-- Remove the grommet under the wheel housing liner by pulling it downward.

- **Installation**

-- Installation occurs in reverse order.

- Cleaning is performed at lower end of hose.

- To do this, either remove the wheel housing liner or move it to the side. Refer to **REAR WHEEL HOUSING LINER** .

- Cleaning is performed at lower end of hose.

4. C-pillar Grommet

5. A-pillar Grommet

REMOVAL AND INSTALLATION

SUNROOF

WIND DEFLECTOR**Removing**

- Open sunroof completely.
- Push the front wind deflector down and remove the wind deflector arms from the bracket toward the center of the vehicle.
- Remove the wind deflector -1- and mount -3- toward the rear and out of the sunroof opening.

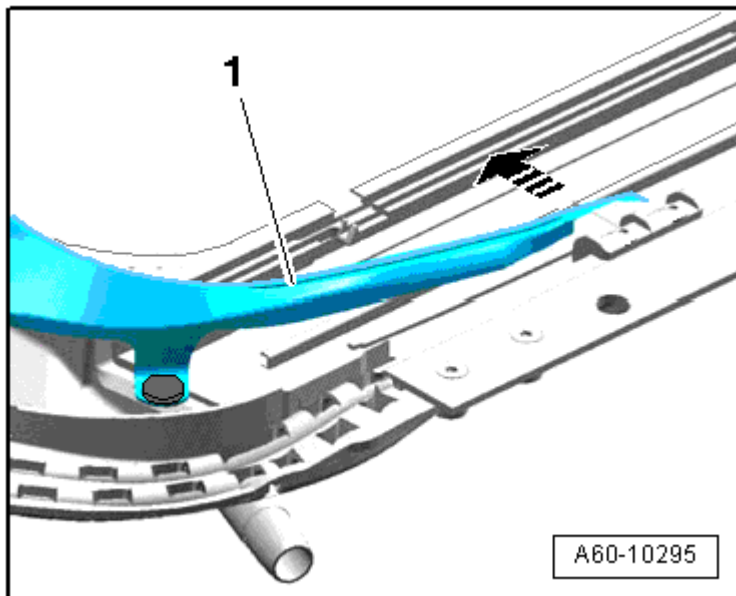


Fig. 8: Removing Wind Deflector And Mount Toward Rear And Out Of Sunroof Opening
Courtesy of AUDI OF AMERICA, LLC

- Install in reverse sequence.

Wind Deflector Spring Installation

- Install the spring -3- into the wind deflector mount -1-.

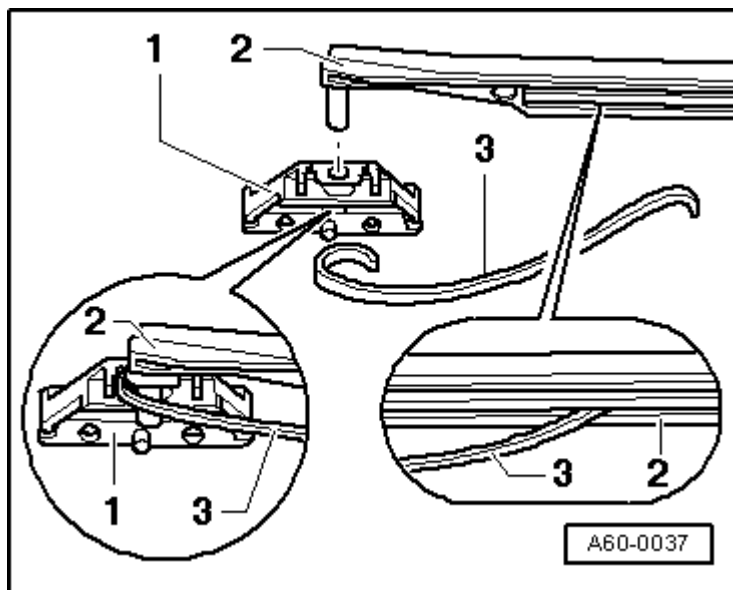


Fig. 9: Laying Spring Around Retaining Pins On Wind Deflector
Courtesy of AUDI OF AMERICA, LLC

-- Install the spring into the groove in the wind deflector -2-.

BELLOWS

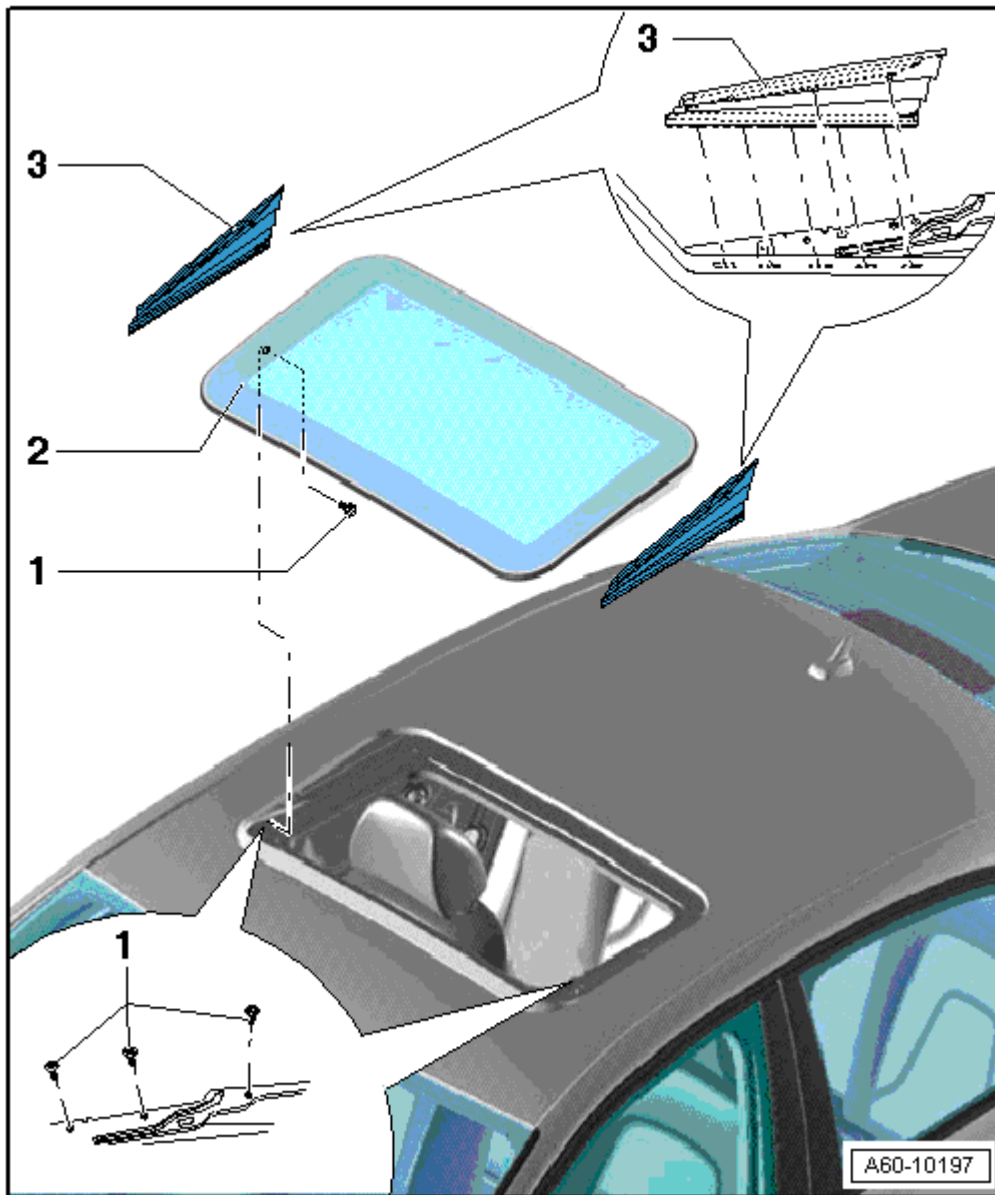


Fig. 10: Identifying Bellows

Courtesy of AUDI OF AMERICA, LLC

1. Bolt
 - 4 Nm
2. Sunroof Panel
 - Removal, refer to **SUNROOF PANEL**.
3. Bellows
 - Remove laterally from the panel and the frame.

SUNROOF PANEL

-- Remove the bellow laterally from the panel and the frame.

-- Remove the screws -arrows- on both side and remove the panel.

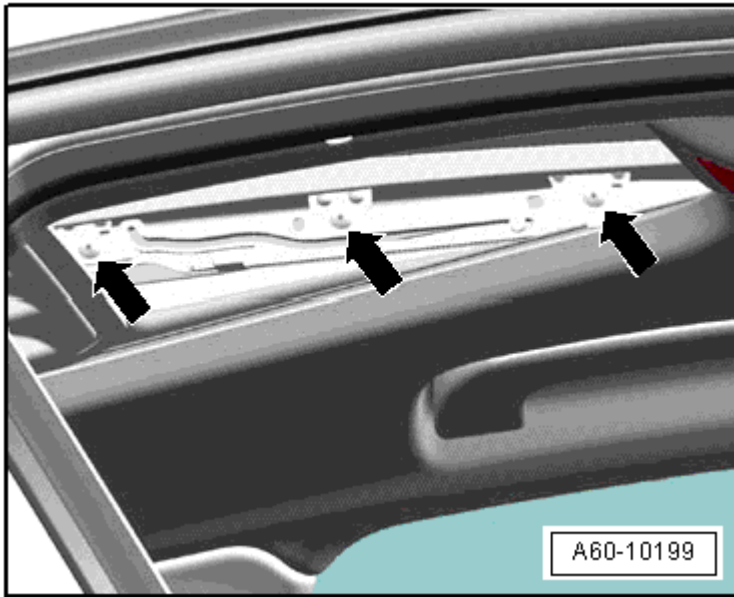


Fig. 11: Removing Screws On Both Side And Remove Panel
Courtesy of AUDI OF AMERICA, LLC

PANEL SEAL

-- Sunroof panel -3- removed.

-- Remove panel seal -2- from sunroof panel -3-.

-- Push new panel seal into sunroof panel -3- starting at rear of panel edge in center.

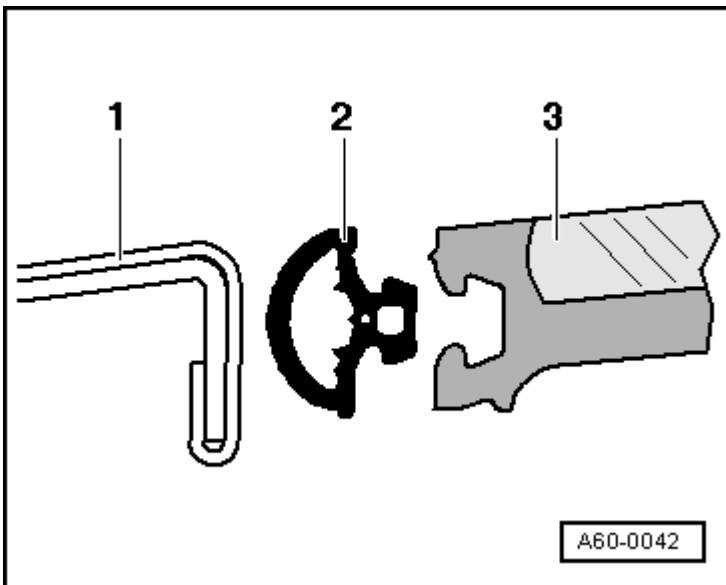


Fig. 12: Identifying Sunroof Panel

Courtesy of AUDI OF AMERICA, LLC

NOTE: Coat the edge of the panel with soapy water to make it easier to install the seal.

SLIDING HEADLINER

-- Sunroof panel removed.

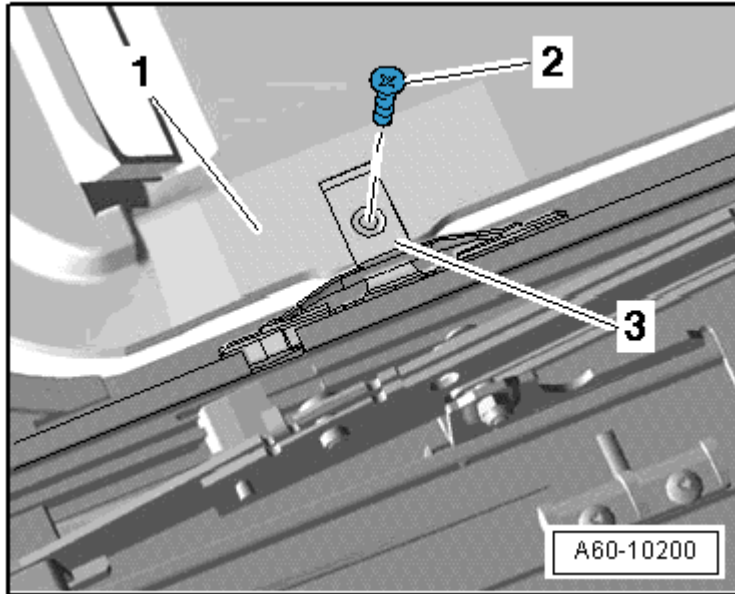


Fig. 13: Identifying Sliding Headliner
Courtesy of AUDI OF AMERICA, LLC

-- Remove the screw -2- for the spring -3-.

-- Push the headliner -1- slightly to the rear and remove the spring.

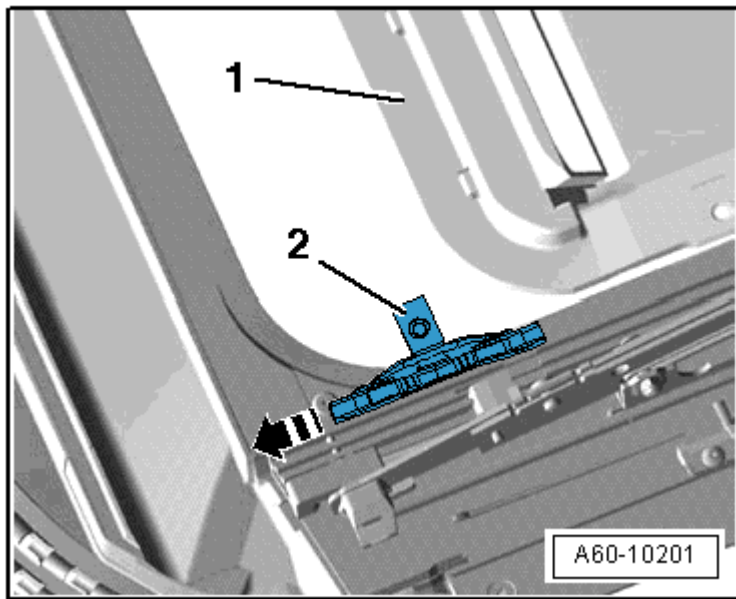


Fig. 14: Pushing Headliner Slightly To Rear And Removing Spring
Courtesy of AUDI OF AMERICA, LLC

-- Remove the spring toward the rear.

-- Remove headliner upward.

SPECIAL TOOLS

Special tools and workshop equipment required

- Roller 3356

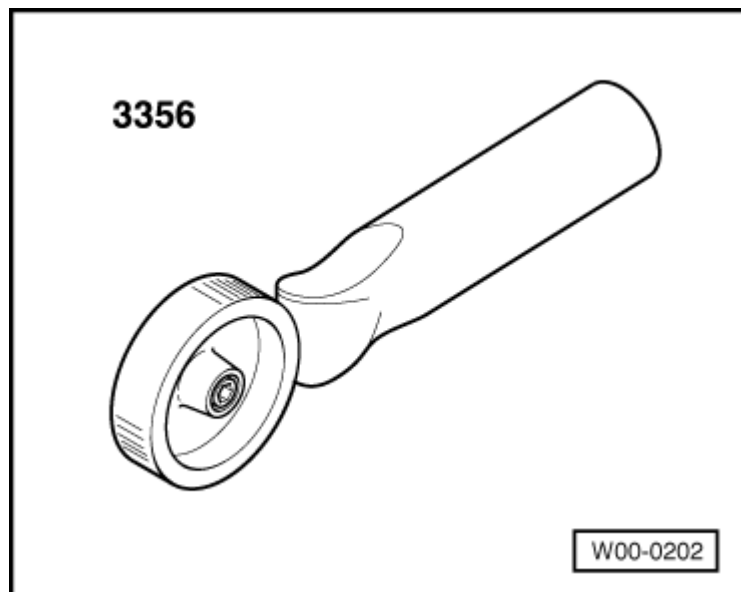


Fig. 15: Application Roller For Door Insulation Foil 3356

Courtesy of AUDI OF AMERICA, LLC

- Cleaning and Insertion Aid VAS 6620

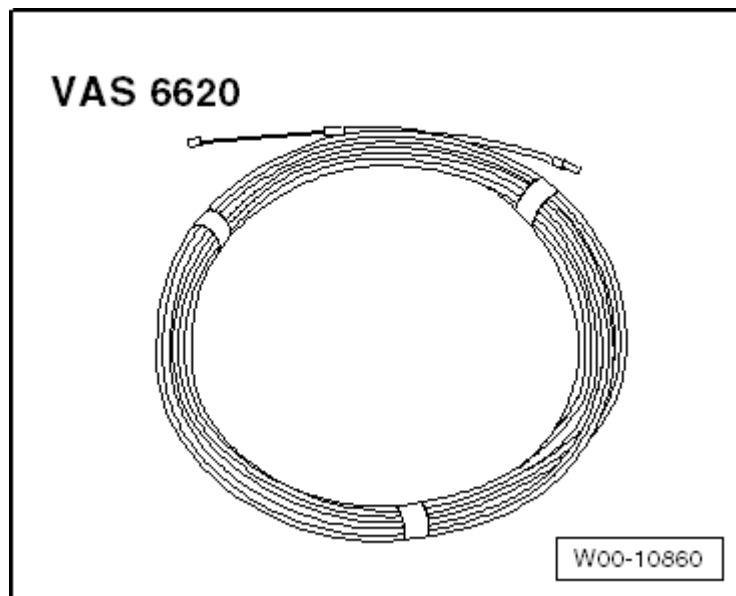


Fig. 16: Identifying Cleaning And Installing Support VAS 6620

Courtesy of AUDI OF AMERICA, LLC