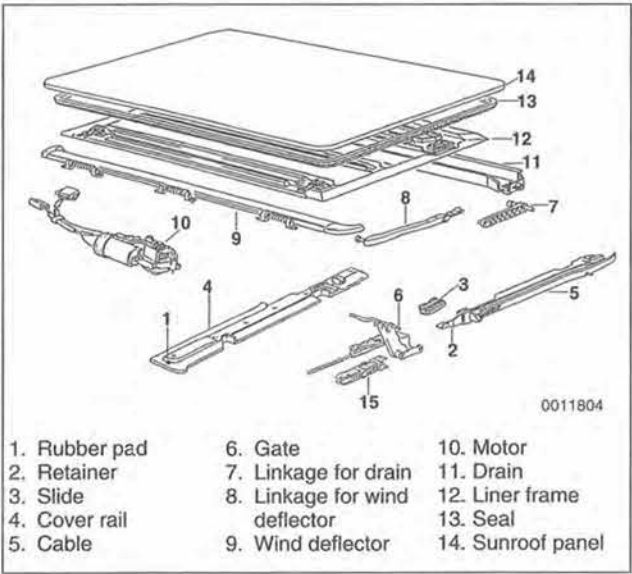


540 Sunroof

GENERAL.....	540-1	Sunroof panel, adjusting	540-2
SUNROOF	540-1	Sunroof panel, removing and installing	540-3
Sunroof panel, emergency closing	540-1	Sunroof drive cables, replacing	540-4
		Sunroof motor, removing and installing	540-6



GENERAL

The electrically operated sunroof is controlled by a set of cables that move the sunroof panel along guide rails when the motor is operated. The sunroof panel can be adjusted without removing it from the car. Replacement of the sunroof liner or components such as the cable assembly require that the sunroof panel be removed.

◀ Sunroof assembly.

NOTE—

Be sure to check the drains in the front corners of the sunroof carrier if water is entering the car through the headliner.

SUNROOF

Sunroof panel, emergency closing

◀ Remove access panel from below sunroof motor.



0011816

540-2 SUNROOF



0011817

- Insert hex key into drive in sunroof motor and turn hex key counterclockwise to close panel.

NOTE—

The hex key for manually (emergency) closing the sunroof can be found in the tool kit located in the trunk lid.

Sunroof panel, adjusting

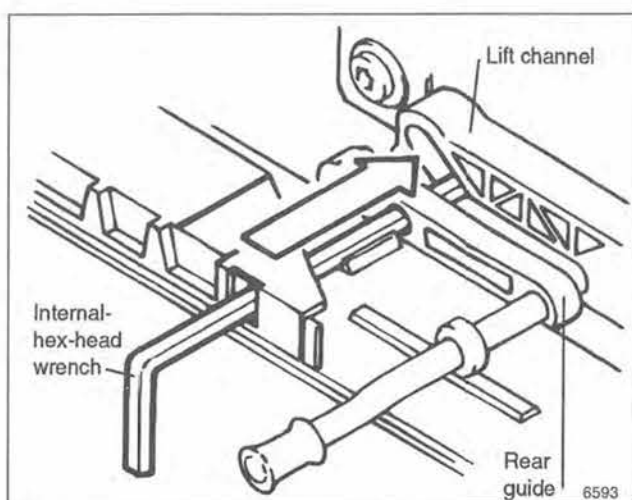
The sunroof panel should be adjusted whenever the top of the closed sunroof becomes misaligned with the roof of the car, if it does not close squarely, if there are wind noises at speed, if there are water leaks, or if the sunroof has been removed.

- Open sunroof approximately 4 inches (100 mm).



0011818

- Sunroof headliner slid back into roof cavity. Headliner is clipped to pins (**arrows**) on sunroof panel. Inset shows clip detail as viewed from above.
- Pry open clips on left and right sides of headliner and slide headliner back into roof cavity.



➤ Hex key wrench inserted through rear guide to lock guide and panel in "closed" position.

- Lock sunroof guides in "closed" position on left and right sides. This will ensure that sunroof panel is squarely positioned in opening.



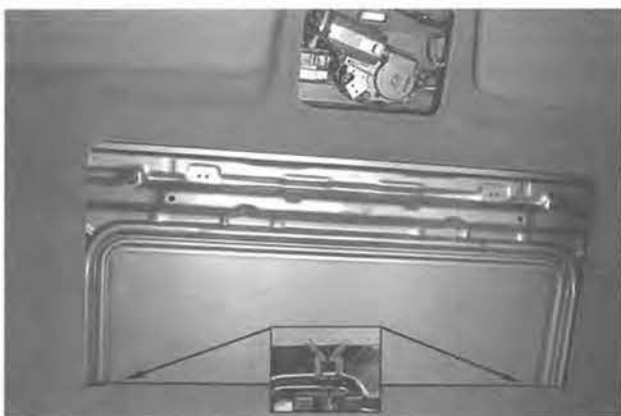
0011820

➤ Sunroof panel mounting screws (**arrows**). Sunroof panel shown in tilt position for screw clarity.

- Loosen screws on left and right sides and adjust lid position.
- Adjust sunroof panel by tilting it as necessary until front edge is lower than roof by 1 mm (0.04 in.), and rear edge is higher than roof by 1 mm (0.04 in.).
- When adjustment is correct, tighten sunroof mounting screws.

Tightening Torque

- Sunroof panel to sunroof drive gate . 3.5 Nm (31 in-lb)

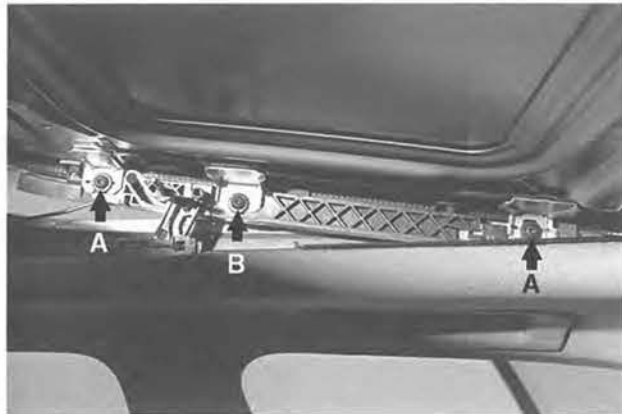


0011818

Sunroof panel, removing and installing

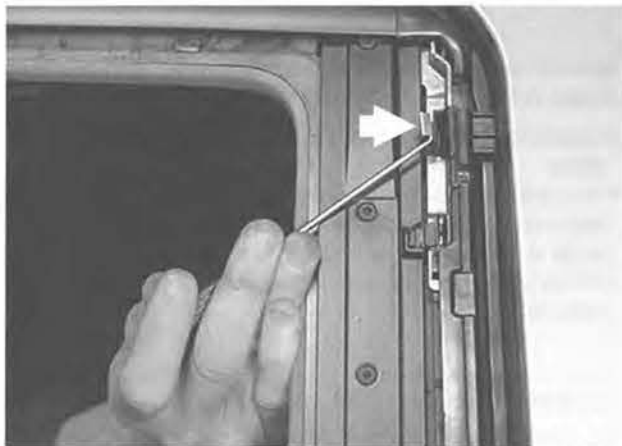
- Open sunroof approximately 4 inches (100 mm).
- Sunroof headliner slid back into roof cavity. Headliner is clipped to pins (**arrows**) on sunroof panel. Inset shows clip detail as viewed from above.
 - Pry open clips on left and right sides of headliner and slide headliner frame back into roof cavity.
- Close sunroof fully.

540-4 SUNROOF



0011820

- Loosen sunroof panel outer screws (A) and remove center screw (B) on left and right sides of sunroof panel. Sunroof panel shown in tilt position for screw clarity.



0011821

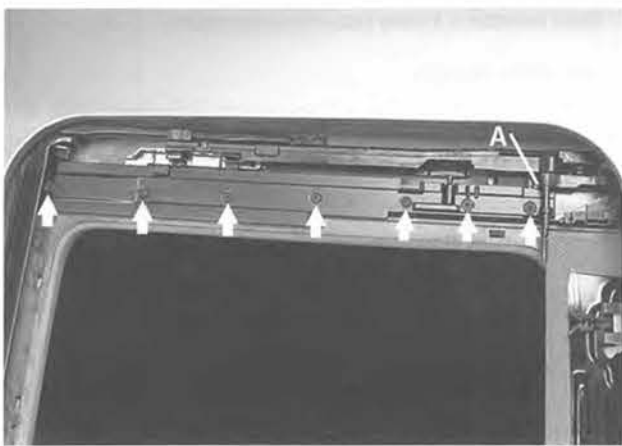
- Pry back clips (arrow) at left and right corners of sunroof panel and carefully push sunroof panel out from below. Sunroof panel shown removed.

Tightening Torque

- Sunroof panel to sunroof drive gate . 3.5 Nm (31 in-lb)

Sunroof drive cables, replacing

- Remove sunroof panel. See **Sunroof panel, removing and installing**.
- Remove sunroof motor. See **Sunroof motor, removing and installing**.
- Working from above, push left and right drive cable ends back towards roof cavity.
- Remove screws (arrows) from guide rail covers on left and right sides and remove covers. Drive cable shown pushed back (A).



0011822

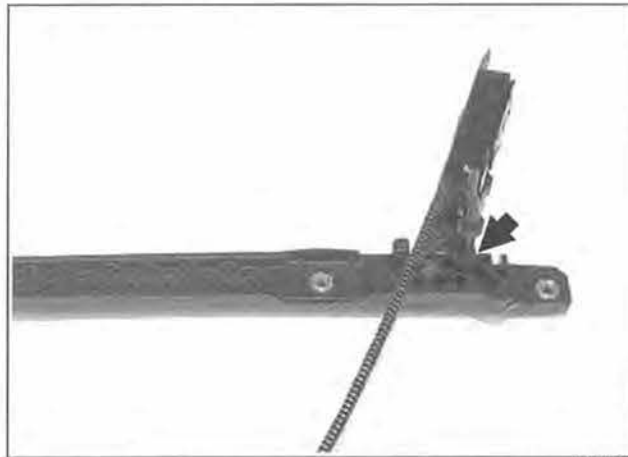
SUNROOF

SUNROOF 540-5



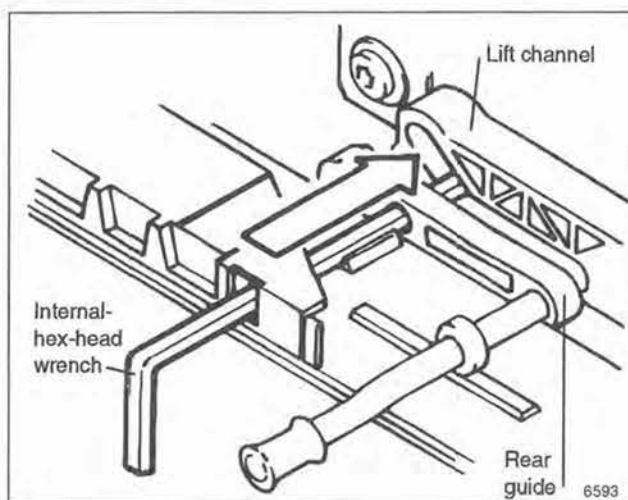
0011823

- Press drive cable end (**arrow**) after removing drive cable from tube. Disconnect linkage from gate.
- Pull drive cable forward and off track. Pull cable assembly out of guide tubes.



0011824

- Position drive cable pin in center position of drive gate (**arrow**) and then pull cable from gate.



6593

- Hex key wrench inserted through rear guide to lock guide and panel in "closed" position.

- Installation is reverse of removal. New screws should be used when installing the guide rail covers. Before installing sunroof motor, pull left and right drive cables forward and lock drive cables and sunroof guides in "closed" position to ensure that drive cables are synchronized.

NOTE—

- The flocked sunroof cables should not be lubricated.
- Drive cable ends are marked left (L) and right (R)

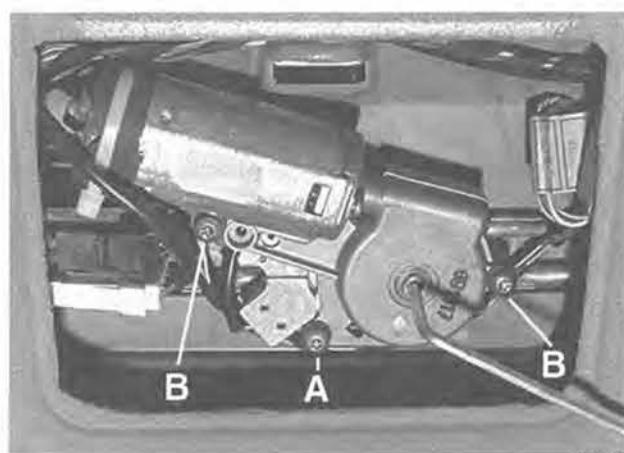
Tightening Torque

- Sunroof motor to motor carrier 2.8 Nm (25 in-lb)
- Sunroof guide rail cover to carrier
M4 screw. 1.8 Nm (17 in-lb)
M5 screw 2.8 Nm (25 in-lb) Sunroof motor, removing and installing

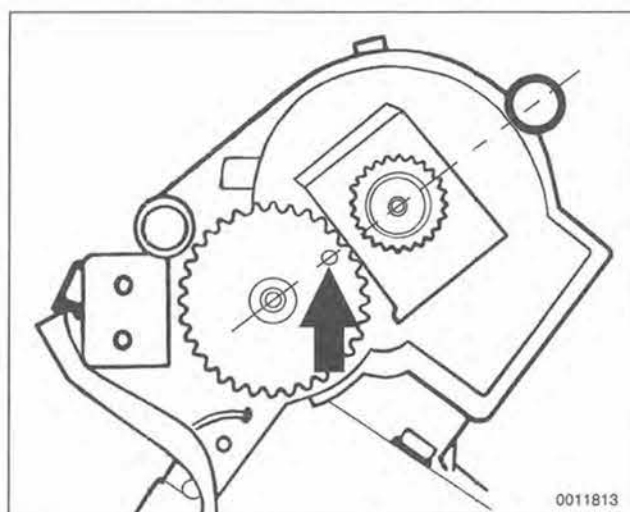
The sunroof should be in the closed position before removing or installing the sunroof motor. If necessary, manually

SUNROOF

540-6 SUNROOF



0011825



0011813

close the sunroof panel as described under **Sunroof panel, emergency closing**.

Sunroof motor, removing and installing

The sunroof should be in the closed position before removing or installing the sunroof motor. If necessary, manually close the sunroof panel as described under **Sunroof panel, emergency closing**.

- Remove sunroof motor mounting screws (**A** and **B**). Screw at **A** is longer than screws at **B**.
- Disconnect harness connector from motor and remove motor.

- Sunroof motor in "closed" position. Hole (**arrow**) in large gear aligns with shafts on both gears.
 - Installation is reverse of removal. Be sure the motor is in the "closed" position before installing it to the sunroof carrier.

Tightening Torque

- Sunroof motor to motor carrier 2.8 Nm (25 in-lb)

