

When the roof opening panel glass is completely closed, it is flush with the roof panel. The roof opening panel weatherstrip provides a seal against adverse weather conditions such as rain and wind, preventing them from entering the passenger compartment. A damaged, deformed or incorrectly installed weatherstrip is unable to seal the glass efficiently. The roof opening panel trough assembly and drain hoses provide a route for water to drain away from the opening panel, damaged or obstructed drain hoses or trough assembly will allow water to collect and possibly leak into the passenger compartment.

Possible Causes

- Incorrect roof opening panel glass alignment
- Roof opening panel drain hoses
- Roof opening panel glass seals
- Damaged roof opening panel frame
- Incorrect position of the roof opening panel glass

Visual Inspection and Diagnostic Pre-checks

- Roof opening panel seals

DIAGNOSIS AND TESTING > ROOF OPENING PANEL > PINPOINT TESTS > PINPOINT TEST B : THE ROOF OPENING PANEL LEAKS > PINPOINT TEST B : THE ROOF OPENING PANEL LEAKS

B1 VERIFY CUSTOMER OPERATION OF THE ROOF OPENING PANEL WHEN PARKED

Make sure the customer is parking with the roof opening panel correctly in the closed position.

Is the customer parking with the roof opening panel in the closed position?

Yes	GO to B2
No	Instruct the customer to REFER to the Owner's Literature for correct operation of the roof opening panel.

B2 CHECK THE ALIGNMENT OF THE ROOF OPENING PANEL

Make sure the roof opening panel glass is centered and flush with the roof line.

Is the roof opening panel aligned correctly?

Yes	GO to B3
No	ALIGN the roof opening panel. REFER to: Roof Opening Panel Alignment .

B3 CHECK THE WEATHERSTRIP CONDITION



NOTE: The seal has a bonded joint located on the passenger side or rear edge. This is not a defect.

Check the roof opening panel seal for position, deformation, cracks, tears, or looseness.

Is the roof opening panel seal in good condition and free from damage?

Yes	GO to B4
No	INSTALL a new roof opening panel glass. REFER to: Roof Opening Panel Glass .

B4 CHECK THE WATER TROUGH CONDITION

Check the roof opening panel rear trough for damage. Check the water trough and guides for damage and/or correct attachment and function.

Is the water trough OK?

Yes	GO to B5
No	REPAIR or INSTALL a new roof opening panel water trough assembly as necessary. REFER to: Trough Assembly .

B5 CHECK THE DRAIN HOSES

Make sure the drain hoses are all connected and not cracked, slit, pinched or obstructed.

Are all the drain hoses present and attached correctly?

Yes	GO to B6
No	REPAIR or INSTALL a new drain hose(s).

B6 CHECK THE DRAIN HOSES FOR CORRECT FLOW



NOTE: Drain hoses must flow downhill and cannot be pinched or restricted by headliner or any other trim components.

With the panel open, slowly pour water into the water trough area and make sure that the same amount of water exits the vehicle at the bottom of the A and C-pillars.

Check drain hoses for obstructions by blowing compressed air through the drain spouts in