

PROBLEM SYMPTOMS TABLE

SLIDING ROOF SYSTEM:

Symptom	Suspected area	See page
AUTO function does not operate	Sliding roof motor assembly	RF-2
Sliding roof system does not operate	1. POWER fuse	-
	2. POWER relay	-
	3. Sliding roof housing assembly	RF-6
	4. Sliding roof motor switch assembly	RF-7
	5. Sliding roof motor assembly	RF-2
	6. Wire harness	RF-7
Sliding roof system stops operation halfway	1. Sliding roof motor assembly	RF-2
	2. Wire harness	RF-7
	3. Sliding roof housing assembly	RF-6

ON-VEHICLE INSPECTION

1. INSPECT WINDOW LOCK SWITCH

- (a) Check that operation of the door glasses except the driver side door glass, the back door glass and the roof glass are disabled when the window lock switch of the power window master switch is pressed.
- (b) Check that the door glasses, the back door glass and the roof glass can be operated when the window lock switch is pressed again.

2. INSPECT AUTO SLIDE-OPEN/CLOSE FUNCTION

- (a) Check that the sliding roof switch can operate the roof glass as follows while the tilt-UP / DOWN function is not operating:

Result

Condition	Switch	Switch Operation	Roof Glass
•Ignition switch ON •Window lock switch OFF	SLIDE OPEN	Pressed more than 0.3 sec.	Fully open
	TILT UP		Fully closed

HINT:

The roof glass stops partway when the sliding roof switch is pushed on either side during AUTO operation.

3. INSPECT AUTO TILT UP/DOWN FUNCTION

- (a) Check that the sliding roof switch can operate the roof glass as follows while the slide-OPEN/CLOSE function is not operating:

Result

Condition	Switch	Switch Operation	Roof Glass
•Ignition switch ON •Window lock switch OFF	TILT UP	Pressed more than 0.3 sec.	Fully tilted up
	SLIDE OPEN		Fully closed

HINT:

The roof glass stops partway when the sliding roof switch is pushed on either side during AUTO operation.

4. INSPECT SLIDING ROOF OPERATION FUNCTION AFTER IGNITION SWITCH OFF

- (a) Under both of the following conditions, check that the door glasses, the back door glass and the roof glass can be operated even after the ignition switch is turned OFF:
 - Within 43 seconds after the ignition switch is turned OFF
 - The driver side door is closed

5. CHECK DEFLECTOR OPERATION

- (a) Check deflector AUTO operation.
 - (1) Run the vehicle with the sliding roof fully open, and check that the deflector lowers (AUTO DOWN) as the vehicle speed increases and rises (AUTO UP) as the vehicle speed decreases.

- (2) Check that the deflector lowers according to the vehicle speeds when the sliding roof has been fully opened while the vehicle is running.
- (b) Check that the sliding roof automatically tilts UP/DOWN depending on the vehicle speed.
 - (1) Conditions that enable the sliding roof to automatically tilt DOWN:
 - Sliding roof in fully open position
 - Sliding roof in UP position
 - Vehicle speed 80 km/h (50 mph) or less (during acceleration)
 - (2) Conditions that enable the sliding roof to automatically tilts UP:
 - Sliding roof in fully open position
 - Sliding roof in DOWN position
 - Vehicle speed 60 km/h (37 mph) or less (during deceleration)

6. INSPECT JAM PROTECTION FUNCTION

HINT:

The jam protection function prevents any part of your body from getting caught by accident between the vehicle body and the roof glass during roof glass operation.

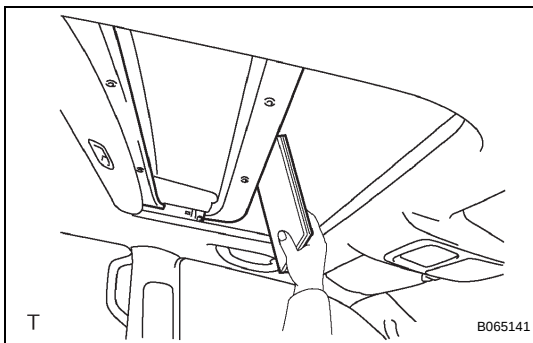
Operative condition:

- AUTO CLOSE
- AUTO CLOSE during sliding roof operation after the ignition switch is turned OFF
- AUTO TILT-DOWN
- AUTO TILT-DOWN during sliding roof operation after the ignition switch is turned OFF

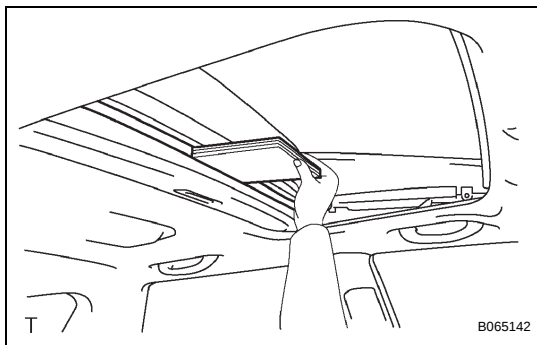
CAUTION:

- **Do not check this function using a part of your body such as a hand. Also, pay thorough attention that nothing gets caught by accident in this process.**
- **If checking this function with something thin (less than 5 mm [0.20 in.]) inserted between the glass and vehicle body, this function may not operate.**

RF



- (a) When the slide-OPEN/CLOSE function is operating: Check that the roof glass opens by approximately 200 mm (7.87 in.) right when something gets caught between the vehicle body and the roof glass during roof glass operation.



- (b) When the tilt-UP/DOWN function is operating:
Check that the roof glass fully tilts up when something gets caught between the vehicle body and the roof glass during roof glass operation.

7. INSPECT FAIL-SAFE FUNCTION

- (a) If the roof glass is not closed because the jam protection function operates improperly, perform following operation. Then, you can close the roof glass using the manual operation function.
 - (1) Press the sliding roof switch on TILT UP side and hold it for 10 seconds after the jam protection function operates. Then you can use the manual operation function.