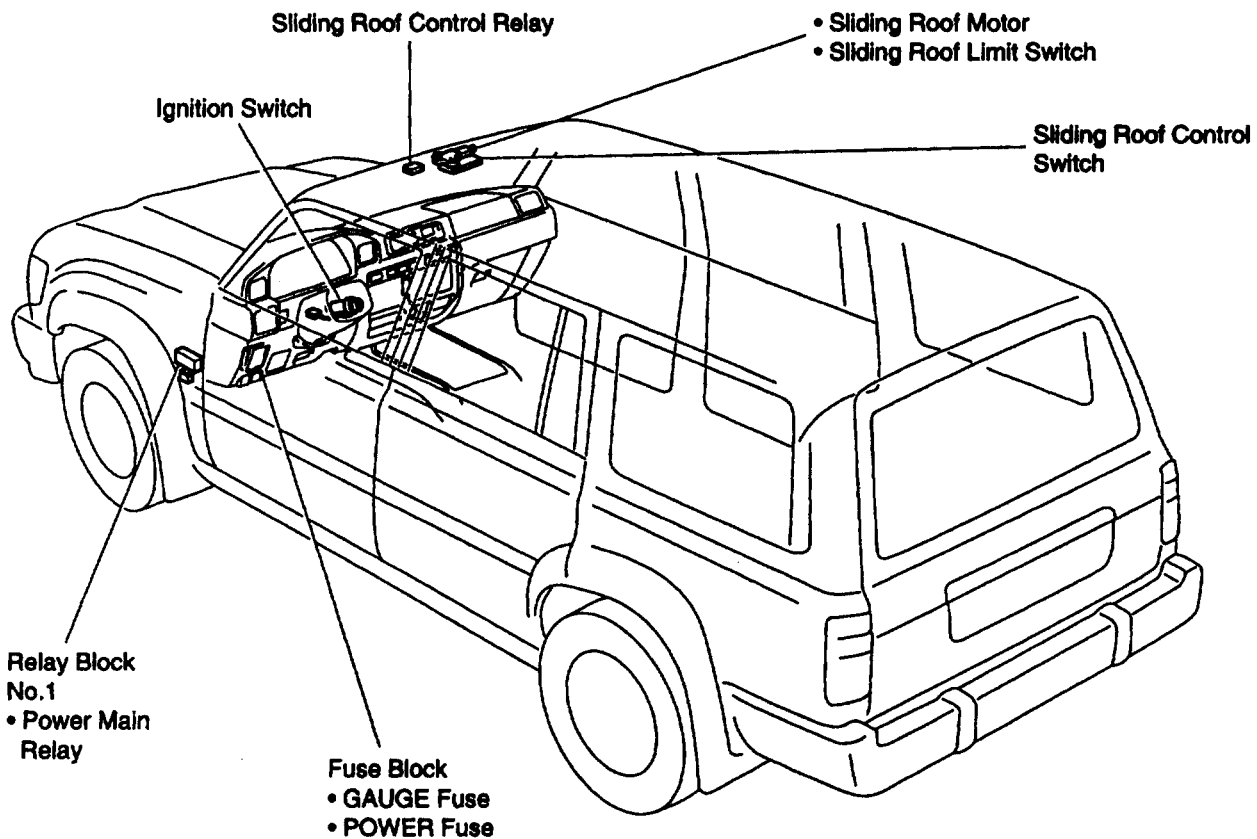


SLIDING ROOF SYSTEM PARTS LOCATION



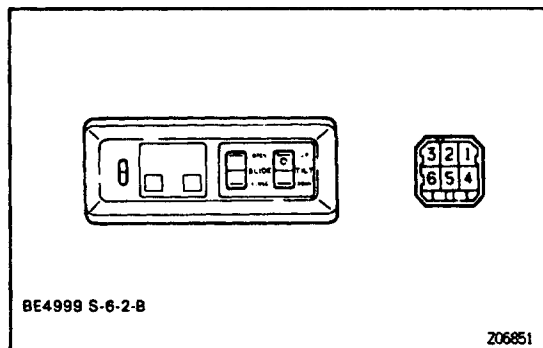
TROUBLESHOOTING

The table below will be useful for you in troubleshooting these electrical problems. The most likely causes of the malfunction are shown in the order of their probability. Inspect each part in the order shown, and replace the part when it is found to be faulty.

Trouble	Parts name	(See page)
*1 Sliding roof system does not operate.	1. AM1 H-Fuse 2. POWER Fuse 3. Door Lock Control Relay 4. Wire Harness	(BE-5) (BE-5) (BE-65)
*2 Sliding roof system does not operate.	1. GAUGE Fuse 2. Ignition Switch 3. POWER Fuse 4. Power Main Relay 5. Sliding Roof Switch 6. Sliding Roof Control Relay 7. Sliding Roof Motor 8. Wire Harness	(BE-5) (BE-7) (BE-5) (BE-59) (BE-70) (BE-72) (BE-71)
Sliding roof system operates abnormally.	1. Sliding Roof Control Relay 2. Limit Switch 3. Sliding Roof Switch	(BE-72) (BE-70) (BE-70)
Sliding roof system stops operation half way.	1. Sliding Roof Control Relay 2. Limit Switch 3. Sliding Roof Switch 4. Sliding Roof Motor (Stones to foreign material trapped in motor assembly)	(BE-72) (BE-70) (BE-70) (BE-71)
"Key-off sliding roof" operation does not operate.	1. POWER Fuse 2. Door Lock Control Relay 3. GAUGE Fuse 4. Ignition Switch 5. Door Courtesy Switch 6. Wire Harness	(BE-5) (BE-65) (BE-5) (BE-7) (BE-20)

*1: Door Lock does not operate.

*2: Door Lock is normal.

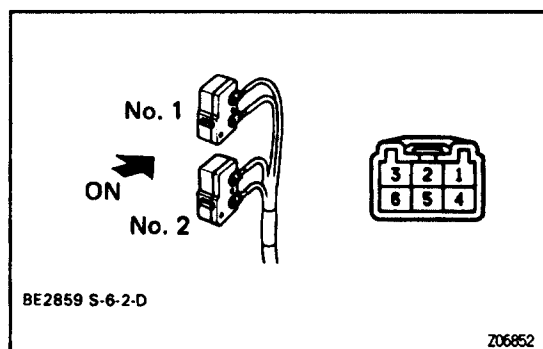


SLIDING ROOF SWITCH INSPECTION

INSPECT SWITCH CONTINUITY

Switch position	Tester connection to terminal number	Specified condition
SLIDE OPEN	3 – 4	Continuity
SLIDE OFF	--	No continuity
SLIDE CLOSE	4 – 6	Continuity
TILT DOWN	2 – 4	Continuity
TILT OFF	--	No continuity
TILT UP	5 – 4	Continuity

If continuity is not as specified, replace the switch.

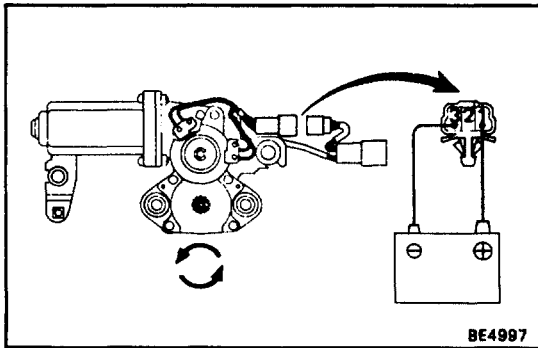


LIMIT SWITCH INSPECTION

INSPECT SWITCH CONTINUITY

Switch position	Tester connection to terminal number	Specified condition
No.1 limit switch OFF (SW pin released)	--	No continuity
No.1 limit switch ON (SW pin pushed in)	1 – 5	Continuity
No.2 limit switch OFF (SW pin released)	--	No continuity
No.2 limit switch ON (SW pin pushed in)	4 – 5	Continuity

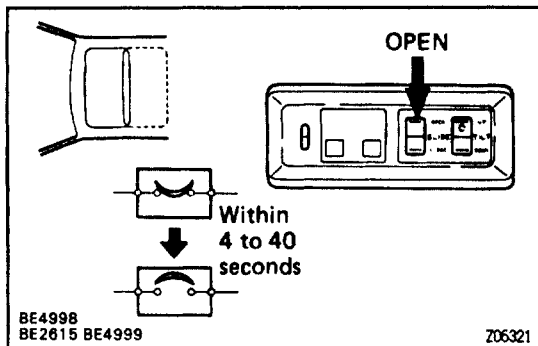
If continuity is not as specified, replace the switch.



SLIDING ROOF MOTOR INSPECTION

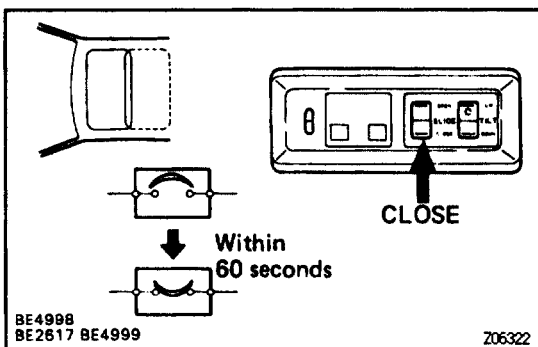
1. INSPECT MOTOR OPERATION

- (a) Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 3, and check that the motor turns to clockwise.
 - (b) Reverse the polarity, and check that the motor turns to clockwise.
- If operation is not as specified, replace the motor.

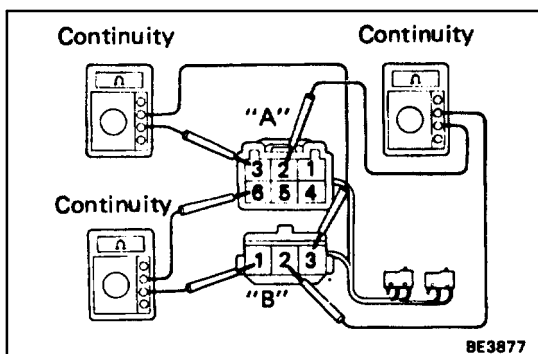


2. INSPECT CIRCUIT BREAKER OPERATION

- (a) With the sliding roof in the fully opened position, hold the sliding roof switch in "OPEN" position and check that there is a circuit breaker operation noise within 4 to 40 seconds.



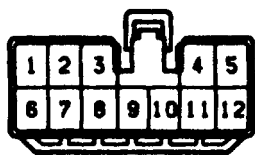
- (b) With the sliding roof in fully opened position, hold the sliding roof switch in "CLOSE" position and check that the sliding roof begins to close within 60 seconds.
- If operation is not as specified, replace the motor.



3. INSPECT MOTOR WIRE CIRCUIT

- (a) Check that there is continuity between terminals A2 and B2.
 - (b) Check that there is continuity between terminals A3 and B3.
 - (c) Check that there is continuity between terminals A6 and B1.
- If continuity is not as specified, replace the switch.

Wire Harness Side



S-12-1

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SLIDING ROOF CONTROL RELAY INSPECTION

INSPECT RELAY CIRCUIT

Disconnect the connector from the relay and inspect the connector on the wire harness side, as shown in the chart.

Tester connection to terminal number	Condition	Specified condition
1 – Ground	Sliding roof control switch position (SLIDE) OFF or CLOSE	No continuity
1 – Ground	Sliding roof control switch position (SLIDE) OPEN	Continuity
2 – Ground	Sliding roof control switch position (SLIDE) OFF or OPEN	No continuity
2 – Ground	Sliding roof control switch position (SLIDE) CLOSE	Continuity
3 – Ground	Sliding roof control switch position (TILT) OFF or DOWN	No continuity
3 – Ground	Sliding roof control switch position (TILT) UP	Continuity
4 – Ground	Constant	No continuity
4 – 5	Constant	*1 Continuity
5 – Ground	Constant	No continuity
7 – Ground	Sliding roof control switch position (TILT) OFF or UP	No continuity
7 – Ground	Sliding roof control switch position (TILT) DOWN	Continuity
8 – Ground	No. 1 limit switch position OFF (Sliding roof tilted up or open approx. 200 mm (7.87 in.))	No continuity
8 – Ground	No. 1 limit switch position ON (Except for conditions mentioned above)	Continuity

9 – Ground	No. 2 limit switch position OFF (Sliding roof closed)	No continuity
9 – Ground	No. 2 limit switch position ON (Sliding roof open)	Continuity
11 – Ground	Constant	Continuity
6 – Ground	Ignition switch position LOCK or ACC	*2 No voltage
6 – Ground	Ignition switch position ON	Battery positive voltage
12 – Ground	Constant	Battery positive voltage

*1: There is resistance because this circuit is include motor.
 If circuit is as specified, replace the relay.
 If circuit is not as specified, inspect the circuits connected to other parts.

*2: Exceptions: During 60 second period after ignition switch ON → OFF (ACC) or until driver or passenger door is opened after ignition switch ON → OFF (ACC).
 If circuit is as specified, replace the relay.

POWER MAIN RELAY INSPECTION

INSPECT RELAY

See page [BE-59](#)