

2005 Toyota RAV4
2005 ACCESSORIES & EQUIPMENT Sliding Roof System - RAV4

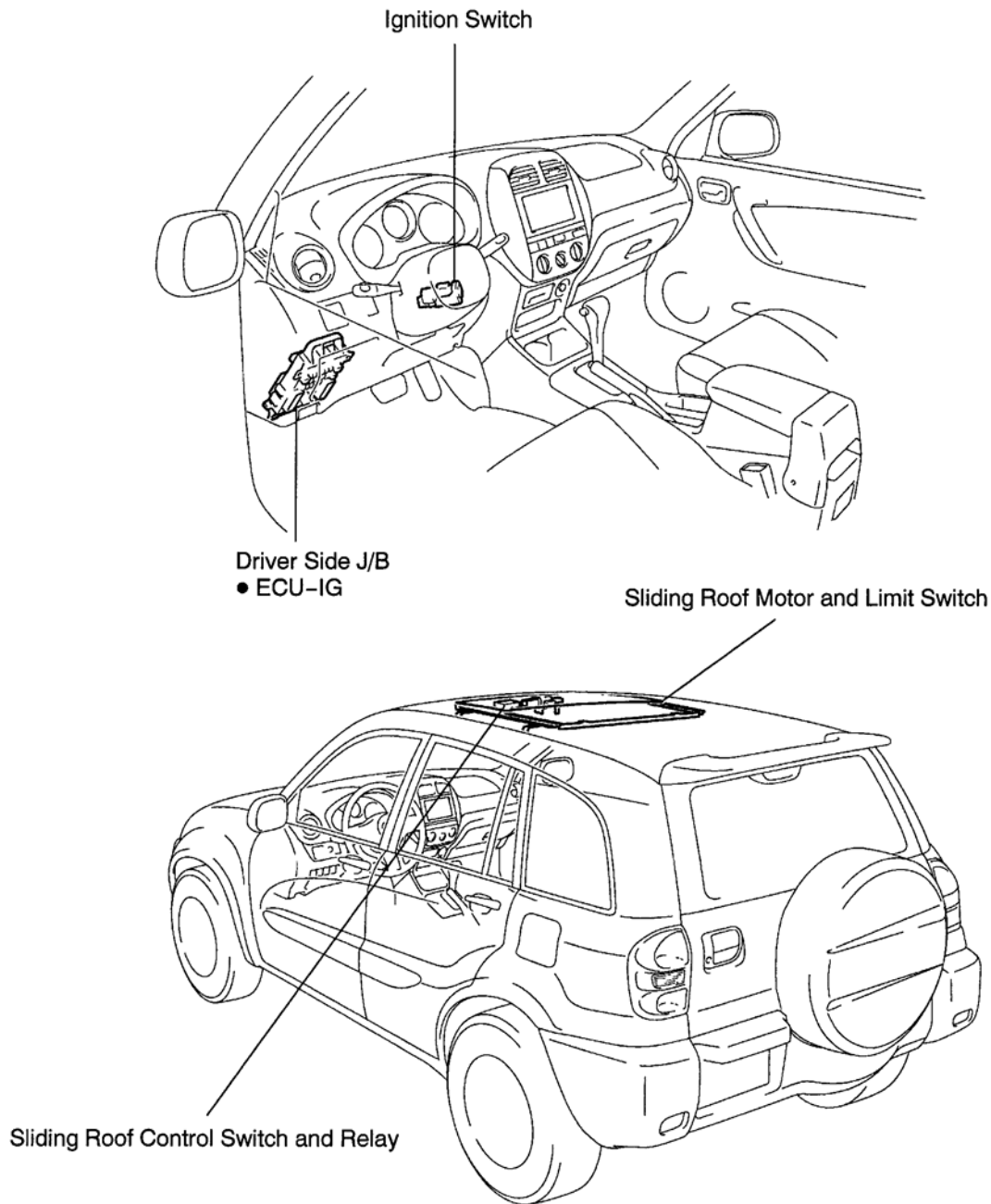
2005 ACCESSORIES & EQUIPMENT

Sliding Roof System - RAV4

LOCATION

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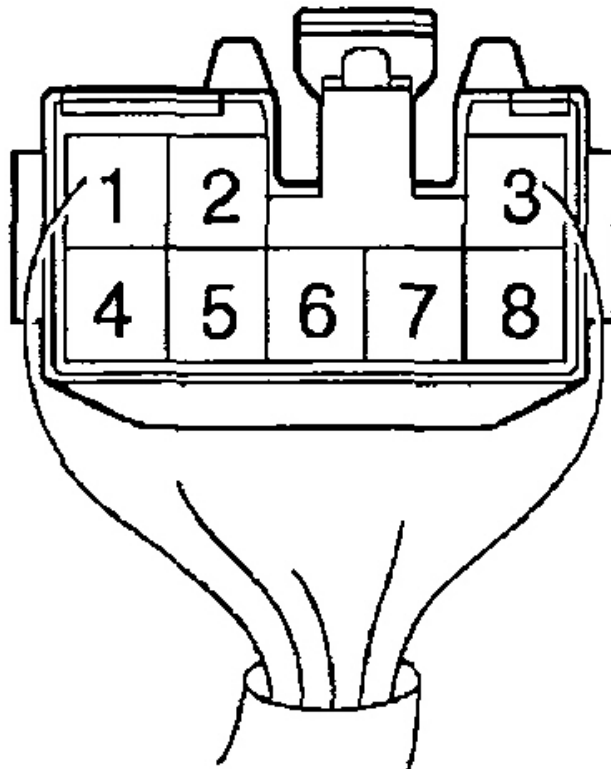
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INSPECTION

1. CHECK SLIDING ROOF CONTROL SWITCH AND RELAY CIRCUIT

- a. Disconnect the connector from the switch and relay. Check the connector on the wire harness side as shown in **Fig. 2** below.



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Fig. 2: Identifying Sliding Roof Control Switch Terminals
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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Tester Connection	Condition	Specified Condition
2 - Body ground	Constant	Continuity
3 - Body ground	No. 1 limit switch OFF → ON	No continuity → Continuity
4 - Body ground	Ignition switch OFF or ACC → ON	*0 V → 10 to 14 V
7 - Body ground	No. 2 limit switch OFF → ON	No continuity → Continuity

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Fig. 3: Tester Connection Specified Condition Chart
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE: ***Exceptions:** For 40 seconds after the ignition switch is turned from ON to OFF (ACC) or until the driver or passenger door is opened after the ignition switch is turned from ON to OFF (ACC).

If the result is not as specified, there may be a malfunction on the wire harness side or limit switch.

- b. Reconnect the connector to the switch and relay. Check the connector on the wire harness side as shown in the **Fig. 4** below.

Tester Connection	Condition	Specified Condition
1 - Body ground	• Ignition switch ON • Sliding roof fully closed • No. 1 limit switch ON • No. 2 limit switch ON • SLIDE OPEN switch not pressed (OFF) → Pressed (OPEN)	0 V → 10 to 14 V
5 - Body ground	• Ignition switch ON • Sliding roof fully open • No. 1 limit switch ON • No. 2 limit switch ON • TILT UP switch not pressed (OFF) → Pressed (OPEN)	0 V → 10 to 14 V

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Fig. 4: Tester Connection Specified Condition Chart
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

If the result is not as specified, replace the sliding roof control switch and relay.

2. INSPECT SLIDING ROOF MOTOR CIRCUIT BREAKER OPERATION

- a. With the sliding roof in the fully open position, hold down the sliding roof switch in the "SLIDE OPEN" position. Check if a circuit breaker operation noise is heard within 10 to 60 seconds.

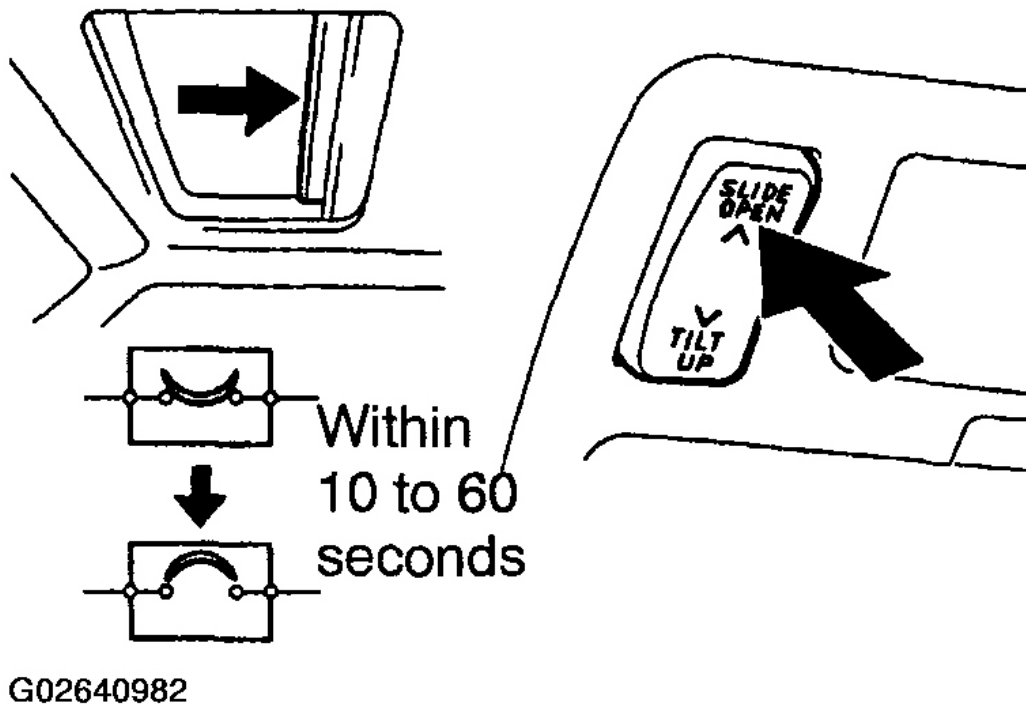
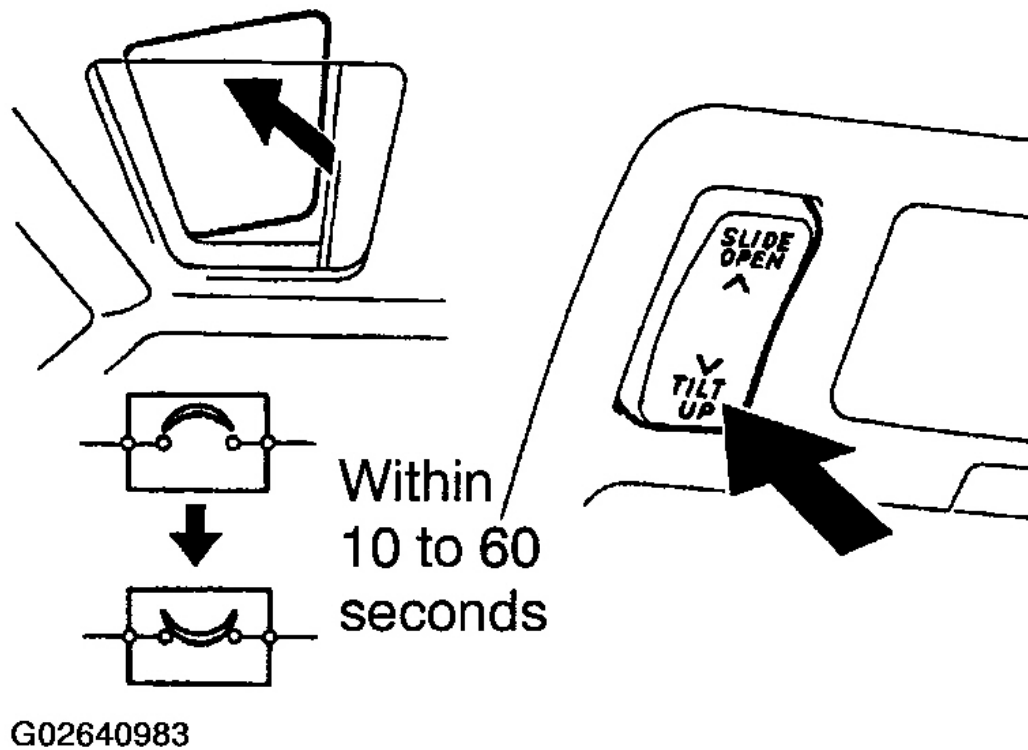


Fig. 5: Inspecting Sliding Roof Motor Circuit Breaker Operation
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. With the sliding roof in the fully open position, hold down the sliding roof switch in the "TILT UP" position. Check if the sliding roof begins to close within 60 seconds.

If operation is not as specified, replace the motor.

**Fig. 6: Identifying TILT UP Position**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. INSPECT SLIDING ROOF MOTOR AND LIMIT SWITCH

- a. Apply battery voltage to the sliding roof motor and check operation.

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 2 Battery negative (-) → Terminal 1	Clockwise
Battery positive (+) → Terminal 1 Battery negative (-) → Terminal 2	Counterclockwise

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Fig. 7: Measurement Condition And Specified Condition Chart

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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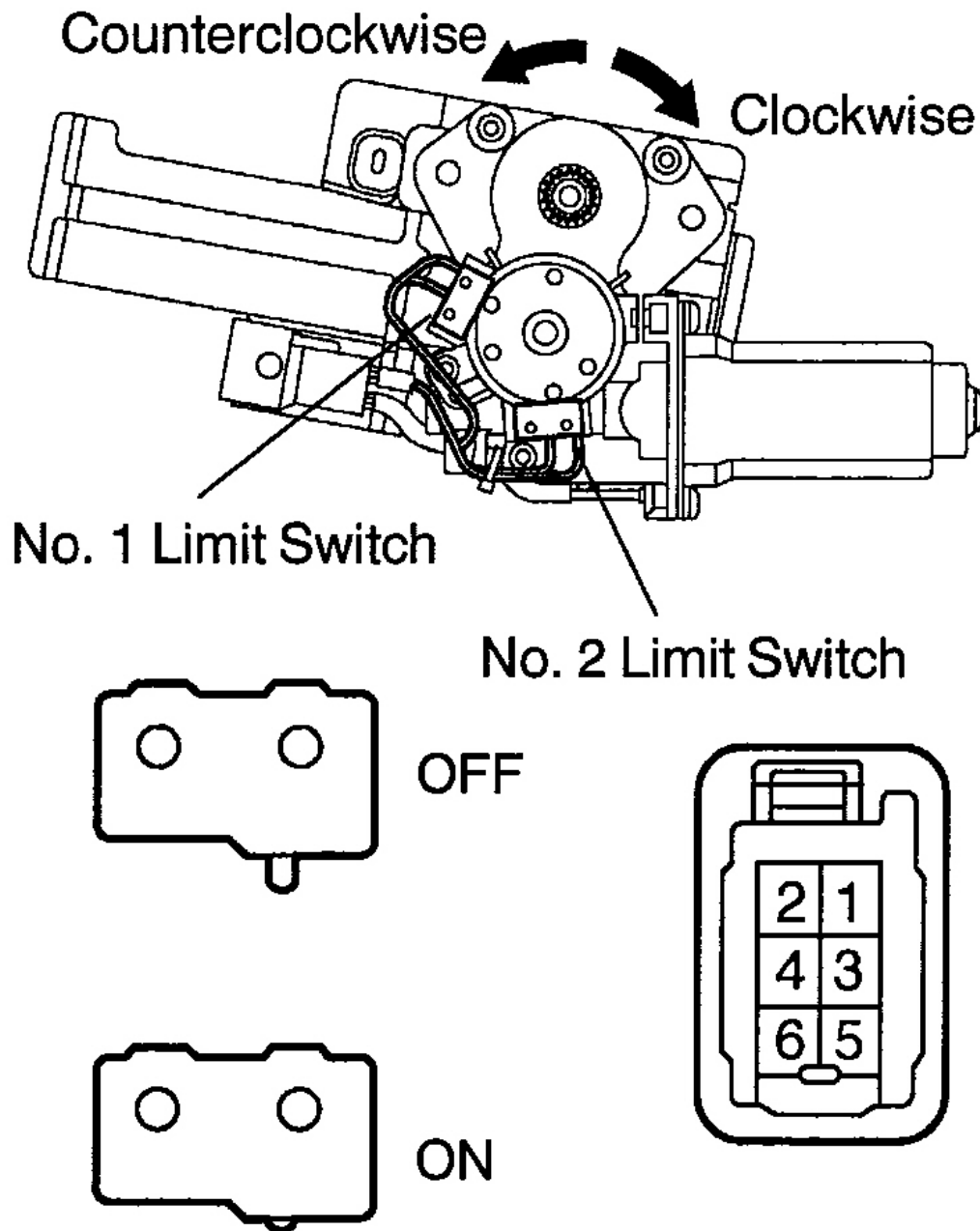
If operation is not as specified, replace the motor.

- b. Check the sliding roof limit switch continuity.

SWITCH POSITION SPECIFIED CONDITION

Switch Position	Tester Connection	Specified Condition
No. 1 limit switch OFF (switch pin released)	4 - 5	No continuity
No. 1 limit switch ON (switch pin pushed in)	4 - 5	Continuity
No. 2 limit switch OFF (switch pin released)	4 - 6	No continuity
No. 2 limit switch ON (switch pin pushed in)	4 - 6	Continuity

If the continuity is not as specified, replace the switch.



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Fig. 8: Inspecting Sliding Roof Motor And Limit Switch

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Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Check the sliding roof motor ground circuit.

TESTER CONNECTION SPECIFIED CONDITION

Tester Connection	Condition	Specified Condition
3 - Body ground	Constant	Continuity

If the continuity is not as specified, replace the switch.