

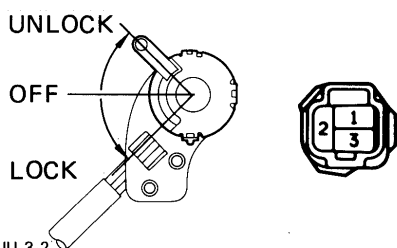
Z06846

INSPECTION

1. Door Lock Manual Switch Continuity: INSPECT POWER WINDOW MASTER SWITCH

Switch position	Tester connection	Specified condition
LOCK	1 - 4, 2 - 4	Continuity
OFF	-	No continuity
UNLOCK	1 - 3, 2 - 3	Continuity

If continuity is not as specified, replace the switch.



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2. INSPECT DOOR KEY LOCK AND UNLOCK SWITCH CONTINUITY

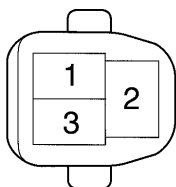
Switch position	Tester connection	Specified condition
LOCK	1 - 3	Continuity
OFF	-	No continuity
UNLOCK	2 - 3	Continuity

If continuity is not as specified, replace the switch.

HINT:

Door key lock and unlock switch is built into the front door lock assembly.

Wire Harness Side



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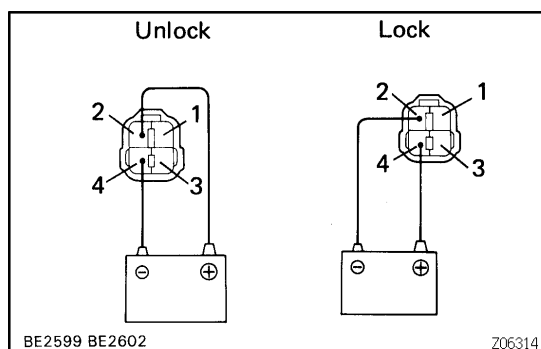
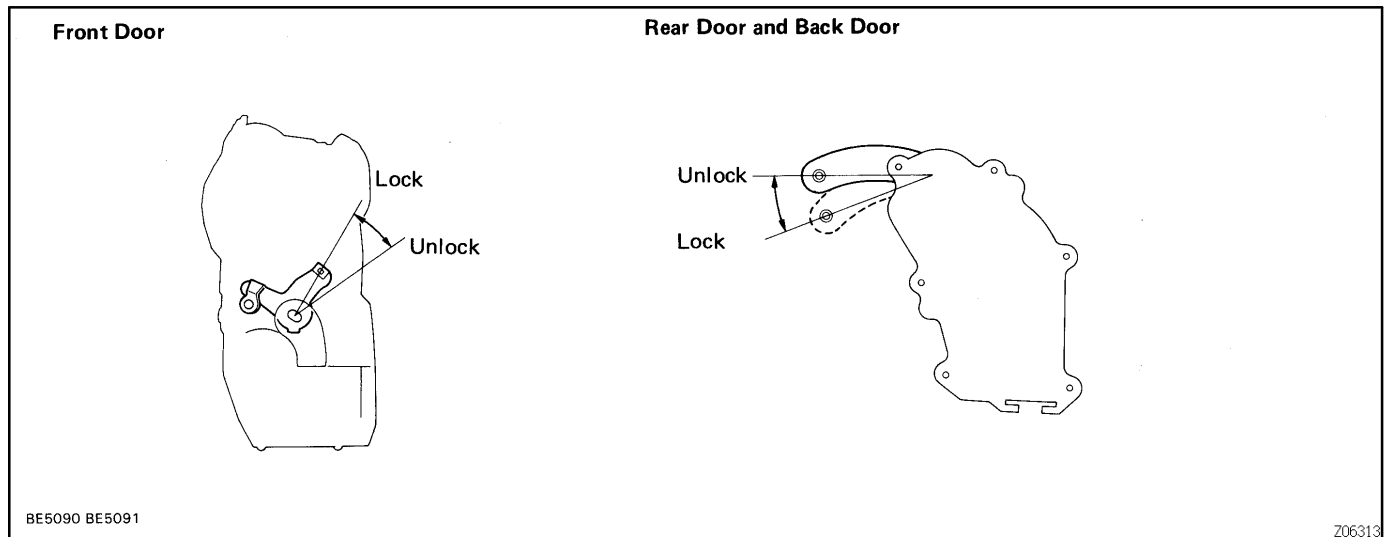
3. INSPECT DOOR KEY LOCK AND UNLOCK SWITCH CIRCUIT

Disconnect the connector from the switch and inspect the connector on the wire harness side, as shown.

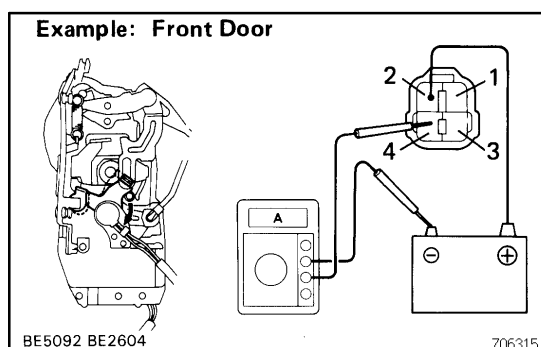
Tester connection	Condition	Specified condition
3 - Ground	Constant	Continuity

If the circuit is not as specified, inspect the circuits connected to other parts.

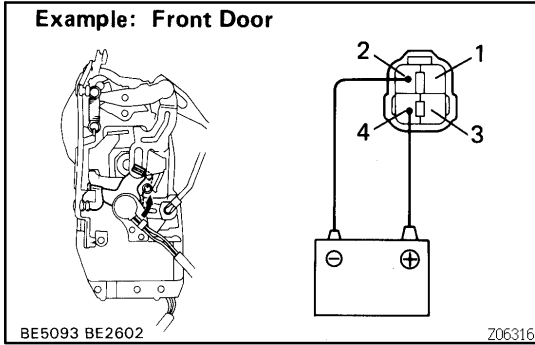
4. **INSPECT KEY UNLOCK WARNING SWITCH CONTINUITY** (See page [BE-17](#))
5. **INSPECT KEY UNLOCK WARNING SWITCH CIRCUIT** (See page [BE-17](#))
6. **INSPECT DOOR COURTESY SWITCH CONTINUITY** (See page [BE-35](#))
7. **Motor Operation:**
INSPECT DOOR LOCK MOTOR



- (a) Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 4, and check that the door lock link moves to the UNLOCK position.
 - (b) Remove the polarity, and check that the door lock link move to the LOCK position.
- If operation is not as specified, replace the door lock assembly.

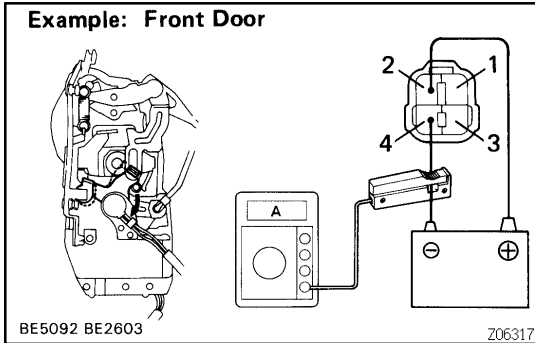


8. **PTC Thermistor Operation/ Using an ammeter:**
INSPECT DOOR LOCK MOTOR
- (a) Connect the positive (+) lead from the battery to terminal 2.
- (b) Connect the positive (+) lead from the ammeter to terminal 4 and the negative (-) lead to battery negative (-) terminal, and check that the current changes from approximately 3.2 A to less than 0.5 A within 20 to 70 seconds.

Example: Front Door

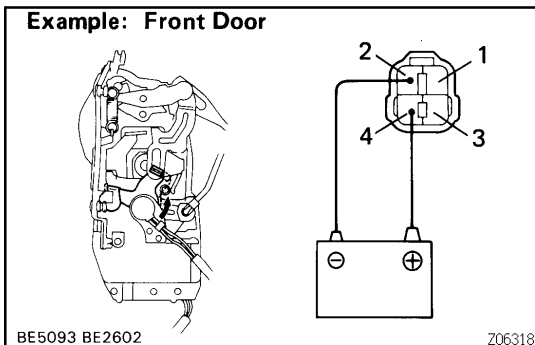
- (c) Disconnect the leads from terminals.
- (d) After approximately 60 seconds, connect the positive (+) lead from the battery to terminal 4 and the negative (-) lead to terminal 2, and check that the door lock moves to the LOCK position.

If operation is not as specified, replace the door lock assembly.

Example: Front Door

9. PTC Thermistor Operation/ Using an ammeter with a current-measuring probe: INSPECT DOOR LOCK MOTOR

- (a) Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 4.
- (b) Attach a current-measuring probe to either the positive (+) lead or the negative (-) lead, and check that the current changes from approximately 3.2 A to less than 0.5 A within 20 to 70 seconds.

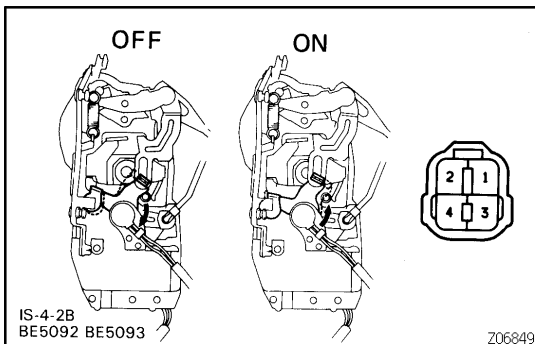
Example: Front Door

- (c) Disconnect the leads from terminals.
- (d) After approximately 60 seconds, reverse the polarity, and check that the door lock moves to the LOCK position.

If operation is not as specified, replace the door lock assembly.

OFF

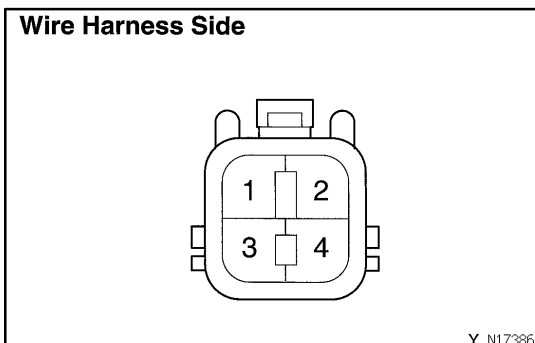
ON



10. INSPECT DOOR UNLOCK DETECTION SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
OFF (Door lock set to LOCK)	—	No continuity
ON (Door lock set to UNLOCK)	1 – 3	Continuity

If continuity is not as specified, replace the door lock assembly.

Wire Harness Side

11. INSPECT DOOR UNLOCK DETECTION SWITCH CIRCUIT

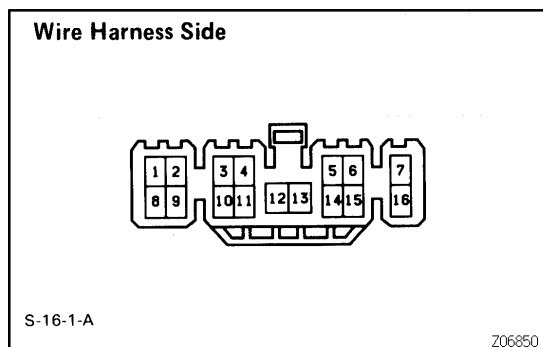
Disconnect the connector from the switch and inspect the connector on the wire harness side, as shown.

Tester connection	Condition	Specified condition
3 – Ground	Constant	Continuity

If continuity is not as specified, replace the door lock assembly.

12. INSPECT POWER MAIN RELAY CONTINUITY (See page BE-11)

13. INSPECT POWER MAIN RELAY CIRCUIT (See page BE-11)



14. INSPECT DOOR LOCK CONTROL RELAY CIRCUIT

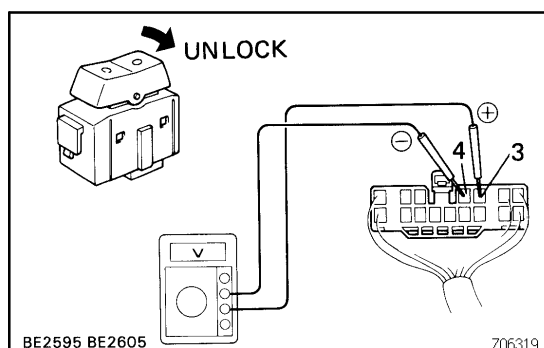
Disconnect the connector from the relay and inspect the connector on the wire harness side, as shown in the chart.

If circuit is as specified, inspect the door lock signal. If the circuit is not as specified, inspect the circuits connected to other parts.

Tester connection	Condition	Specified condition
2 – Ground	Driver's door courtesy switch position OFF (Door closed)	No continuity
2 – Ground	Driver's door courtesy switch position ON (Door opened)	Continuity
5 – Ground	Passenger's door lock switch position OFF (Door locked)	No continuity
5 – Ground	Passenger's door lock switch position ON (Door unlocked)	Continuity
6 – Ground	Driver's door lock switch position OFF (Door locked)	No continuity
6 – Ground	Driver's door lock switch position ON (Door unlocked)	Continuity
7 – Ground	Key unlock warning switch position OFF (Ignition Key Removed)	No continuity
7 – Ground	Key unlock warning switch position ON (Ignition Key Set)	Continuity
9 – Ground	Driver's door key lock and unlock switch position OFF or LOCK (Door key free or turned to lock)	No continuity
9 – Ground	Driver's door key lock and unlock switch position UNLOCK (Door key turned to unlock)	Continuity
10 – Ground	Door lock manual switch position OFF or UNLOCK	No continuity
10 – Ground	Door lock manual switch position LOCK	Continuity
11 – Ground	Door lock manual switch and passenger's door key lock and unlock switch position OFF or LOCK	No continuity
11 – Ground	Door lock manual switch or passenger's door key lock and unlock switch position UNLOCK	Continuity

BODY ELECTRICAL - POWER DOOR LOCK CONTROL SYSTEM

Tester connection	Condition	Specified condition
12 - Ground	Driver's and passenger's door key lock and unlock switch position OFF or UNLOCK (Door key free or turned to unlock)	No continuity
12 - Ground	Driver's or passenger's door key lock and unlock switch position LOCK (Door key turned to lock)	Continuity
14 - Ground	Passenger's door courtesy switch position OFF (Door closed)	No continuity
14 - Ground	Passenger's door courtesy switch position ON (Door opened)	Continuity
16 - Ground	Constant	Continuity
1 - Ground	Ignition switch position LOCK or ACC	No voltage
1 - Ground	Ignition switch position ON	Battery positive voltage
8 - Ground	Constant	Battery positive voltage



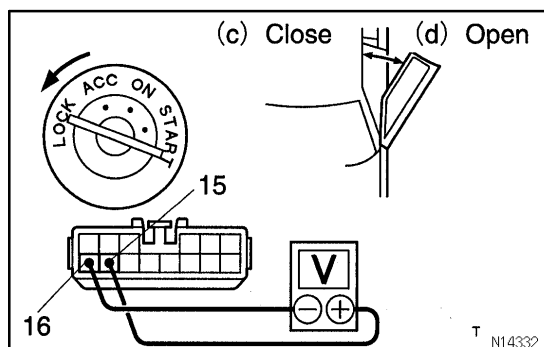
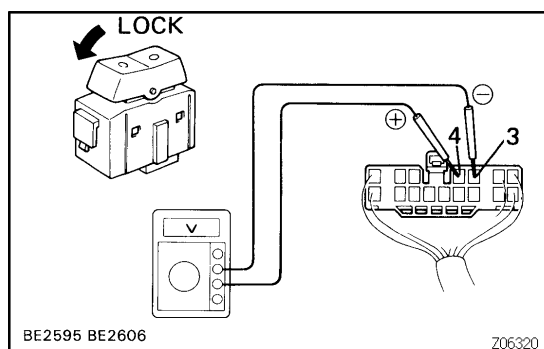
(a) Inspect the door lock signal.

HINT:

When the relay circuit is as specified, inspect the door lock signal.

- (1) Connect the connector to the relay.
- (2) Connect the positive (+) lead from the voltmeter to terminal 3 and the negative (-) lead to terminal 4.
- (3) Set the door lock manual switch to UNLOCK, and check that the voltage rises from 0 V to battery positive voltage for approximately 0.2 seconds.
- (4) Reverse the polarity of the voltmeter leads.
- (5) Set the door lock manual switch to LOCK, and check that the voltage rises from 0 V to battery positive voltage for approximately 0.2 seconds.

If operation is not as specified, replace the relay.



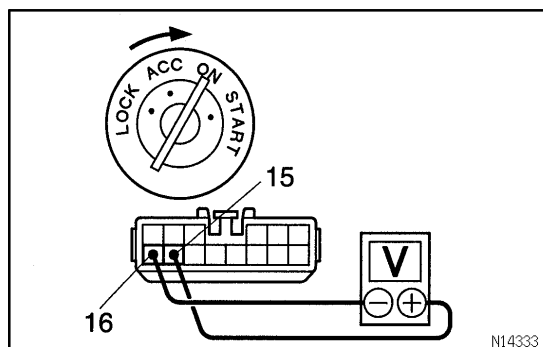
(b) Inspect key-off power window signal.

HINT:

When the relay circuit is as specified, inspect the key-off power window signal.

- (1) Connect the connector to the relay.
- (2) Connect the positive (+) lead from the voltmeter to terminal 15 and the negative (-) lead to terminal 16.

- (3) Close the door with ignition switch turned to LOCK or ACC, check that the meter needle indicates battery positive voltage.



- (4) Open the door, check that the meter needle indicates 0 V.
- (5) Turn the ignition switch ON, check that the meter needle indicate battery positive voltage again.
- (6) If operation is not as specified, replace the relay.