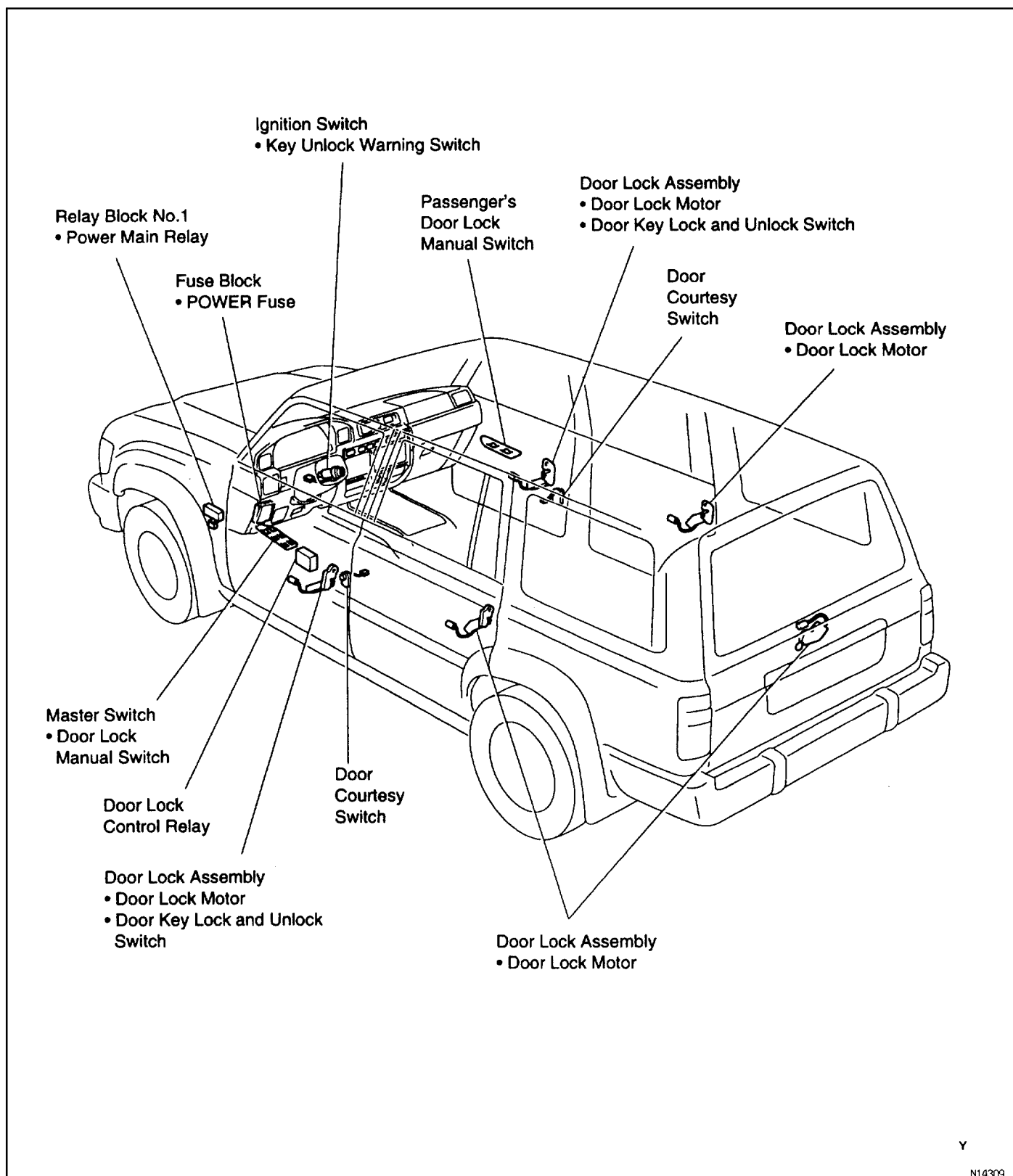


POWER DOOR LOCK CONTROL SYSTEM

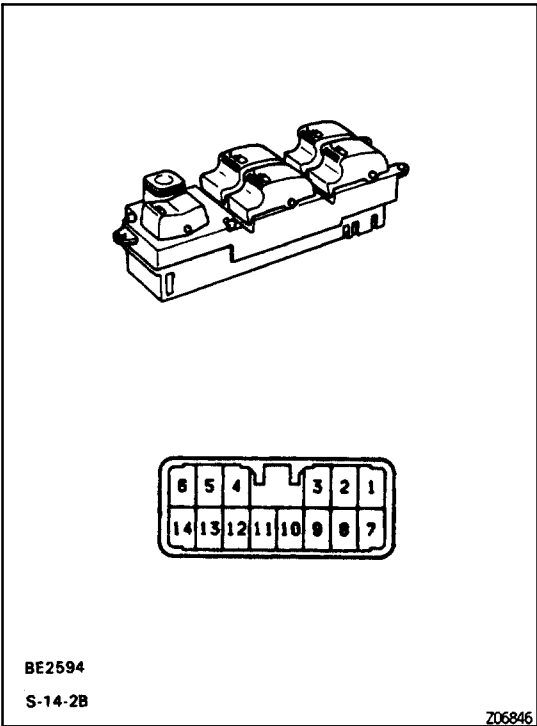
PARTS LOCATION



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)
Door lock system does not operate.	1. POWER Fuse 2. Door Lock Motor 3. Door Lock Control Relay 4. Wire Harness	(BE-5) (BE-63) (BE-65)
Door lock system does not operate by manual switch.	1. Door Lock Manual Switch 2. Door Lock Control Relay 3. Wire Harness	(BE-62) (BE-65)
Door lock system does not operate by door key.	1. Door Key Lock and Unlock Switch 2. Door Lock Control Relay 3. Wire Harness 4. Door Lock Link Disconnected	(BE-62) (BE-65)
Fault in key confine prevention operation.	1. Door Lock Control Relay 2. Key Unlock Warning Switch 3. Door Courtesy Switch 4. Wire Harness	(BE-65) (BE-8) (BE-20)

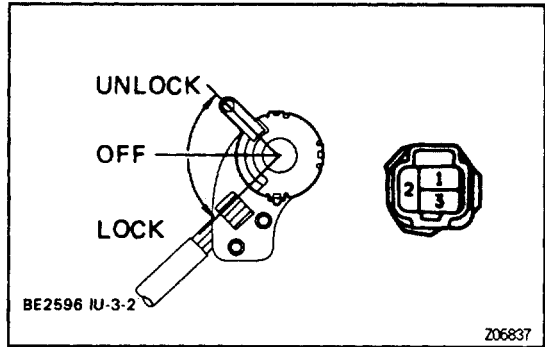


POWER WINDOW MASTER SWITCH INSPECTION

INSPECT DRIVER'S DOOR LOCK MANUAL SWITCH CONTINUITY

Switch position	Tester connection to terminal number	Specified condition
LOCK	1 or 2 – 4	Continuity
OFF	--	No Continuity
UNLOCK	1 or 2 – 3	Continuity

If continuity is not as specified, replace the switch.



DOOR KEY LOCK AND UNLOCK SWITCH INSPECTION

INSPECT SWITCH CONTINUITY

Switch position	Tester connection to terminal number	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.

KEY UNLOCK WARNING SWITCH INSPECTION

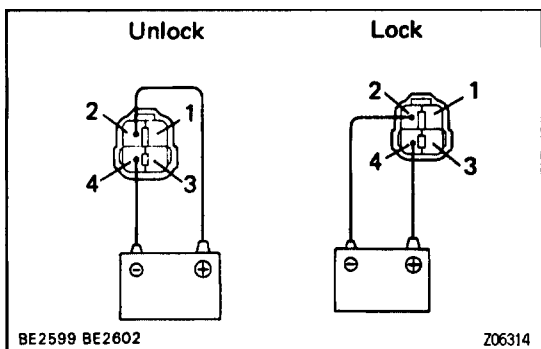
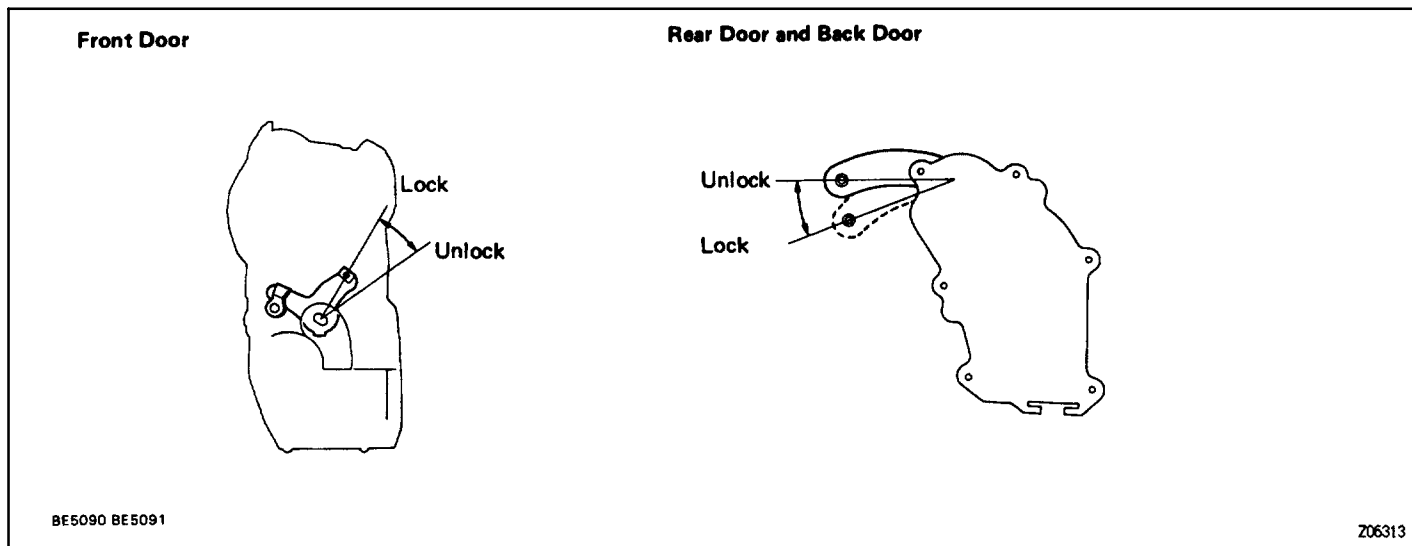
INSPECT SWITCH
See page [BE-8](#)

DOOR COURTESY SWITCH INSPECTION

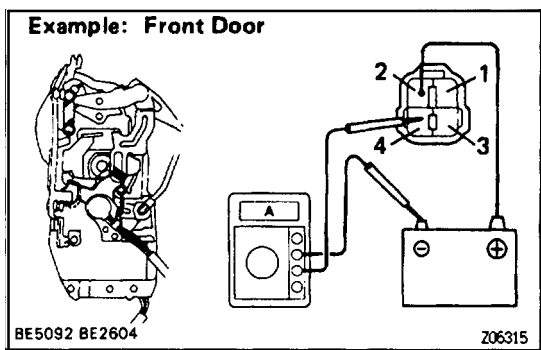
INSPECT SWITCH
See page [BE-20](#)

DOOR LOCK MOTOR INSPECTION

1. INSPECT MOTOR OPERATION

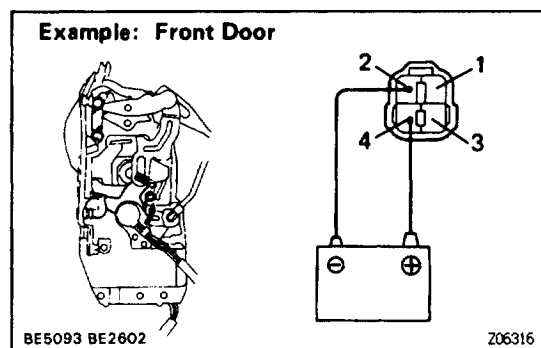


- Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 4, and check that the door lock link moves to UNLOCK position.
 - Remove the polarity, and check that the door lock link move to LOCK position.
- If operation is not as specified, replace the door lock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

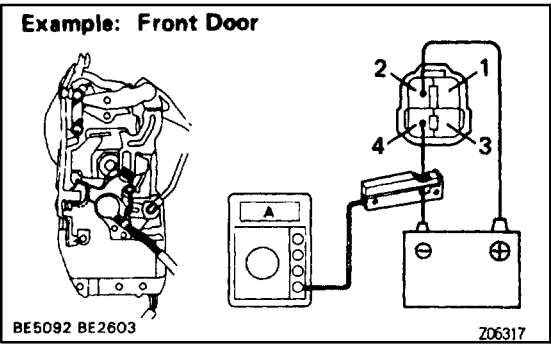


2. INSPECT PTC THERMISTOR OPERATION USING AN AMMETER:

- Connect the positive (+) lead from the battery to terminal 2.
- 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.

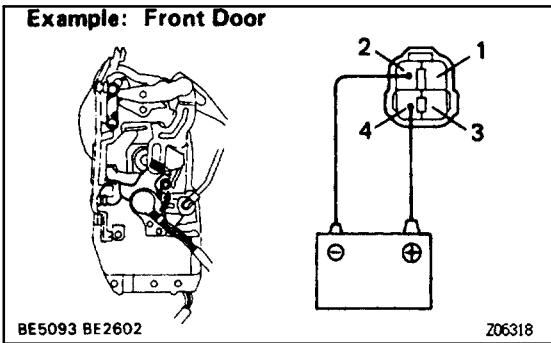


- Disconnect the leads from terminals.
 - Approximately 60 seconds later, connect the positive (+) lead from the battery to terminal 4 and the negative (-) lead to terminal 2, and check that the door lock moves to LOCK position.
- If operation is not as specified, replace the door lock assembly.

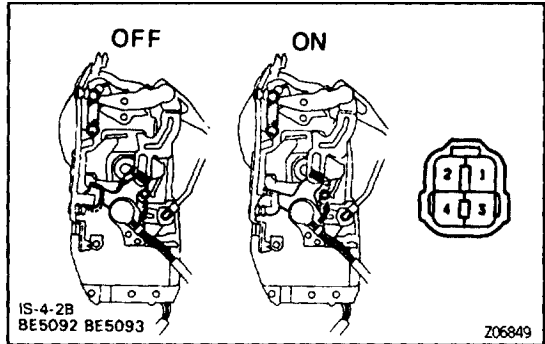


USING AN AMMETER WITH A CURRENT-MEASURING PROBE:

- (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.



- (c) Disconnect the leads from terminals.
- (d) Approximately 60 seconds later, reverse the polarity, and check that the door lock moves to LOCK position. If operation is not as specified, replace the door lock assembly.



DOOR UNLOCK DETECTION SWITCH INSPECTION

INSPECT SWITCH CONTINUITY

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

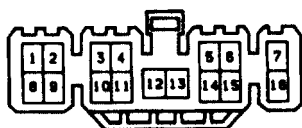
If continuity is not as specified, replace the door lock assembly.

POWER MAIN RELAY INSPECTION

INSPECT RELAY

See page [BE-59](#)

Wire Harness Side



S-16-1-A

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DOOR LOCK CONTROL RELAY INSPECTION

1. INSPECT RELAY CIRCUIT

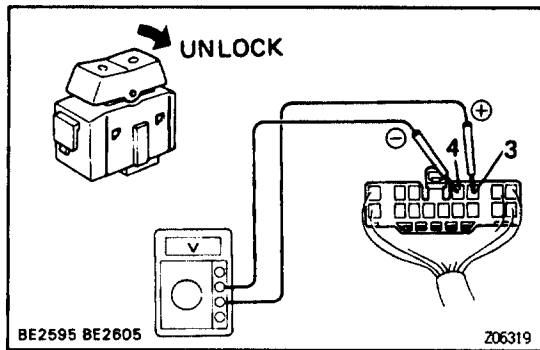
Disconnect the connector from the relay and inspect the connector on the wire harness side, as shown in the chart.

Tester connection to terminal number	Condition	Specified condition
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
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

If circuit is as specified, inspect the door lock signal.

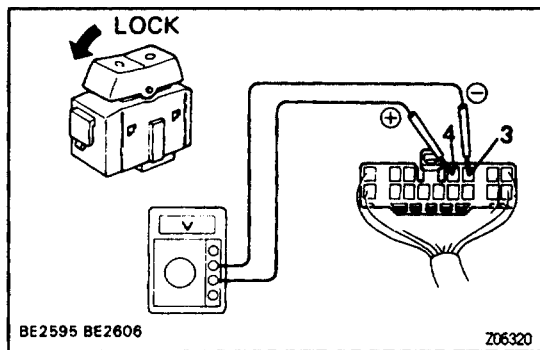
If the circuit is not as specified, inspect the circuits connected to other parts.



2. INSPECT DOOR LOCK SIGNAL

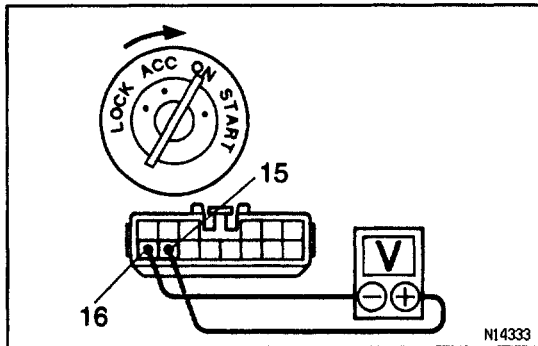
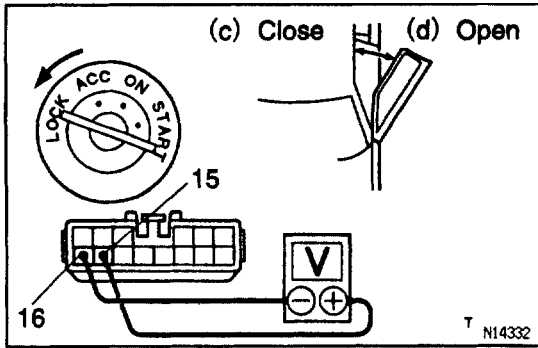
HINT: When the relay circuit is as specified, inspect the door lock signal.

- Connect the connector to the relay.
- Connect the positive (+) lead from the voltmeter to terminal 3 and the negative (-) lead to terminal 4.
- 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.



- Reverse the polarity of the voltmeter leads.
- 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.



3. INSPECT KEY-OFF POWER WINDOW SIGNAL

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

- Connect the connector to the relay.
 - Connect the positive (+) lead from the voltmeter to terminal 15 and the negative (-) lead to terminal 16.
 - Close the door with ignition switch turned to LOCK or ACC, check that the meter needle indicates battery positive voltage.
 - Open the door, check that the meter needle indicates 0 V.
 - Turn the ignition switch ON, check that the meter needle indicate battery positive voltage again.
- If operation is not as specified, replace the relay.