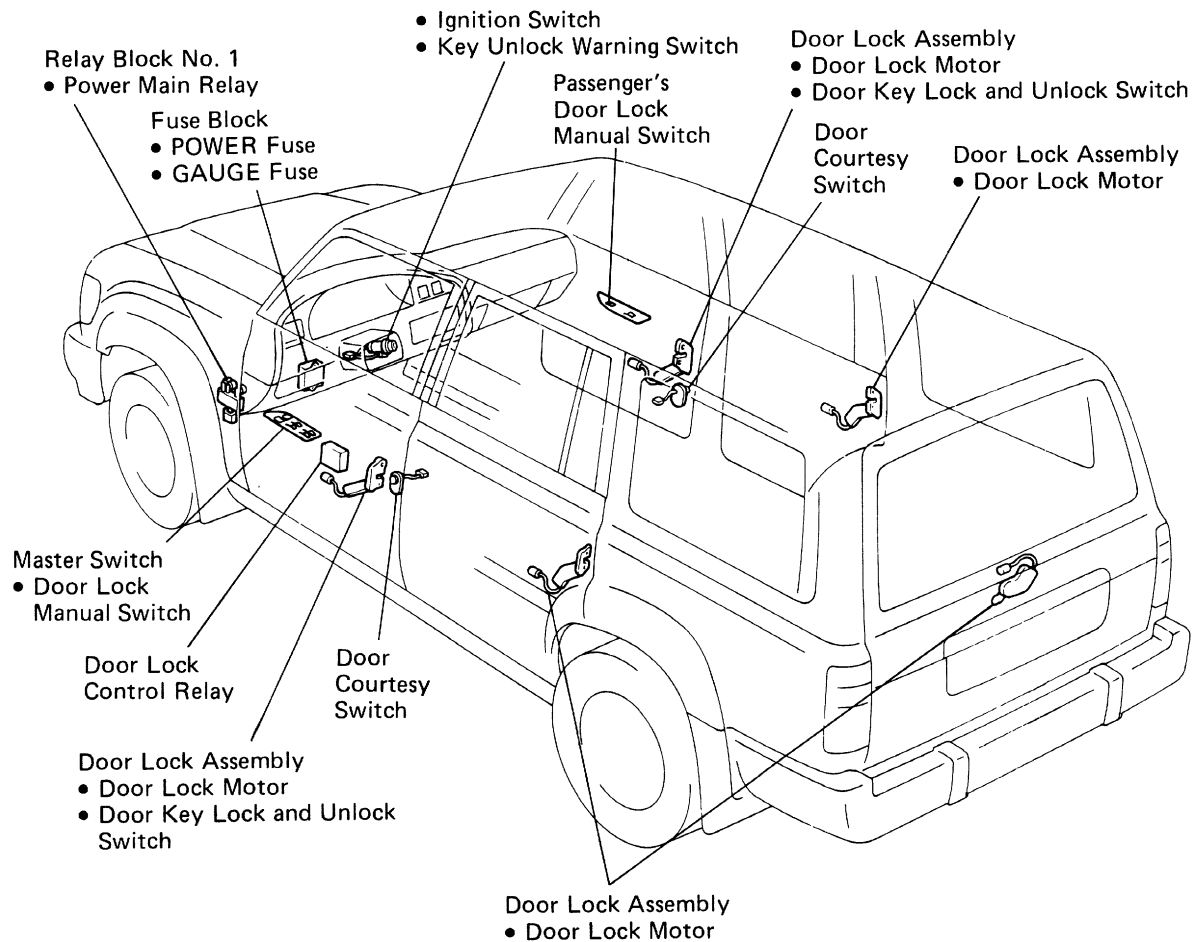


POWER DOOR LOCK CONTROL SYSTEM

PARTS LOCATION

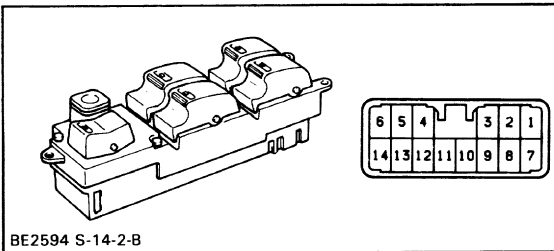


TROUBLESHOOTING

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.

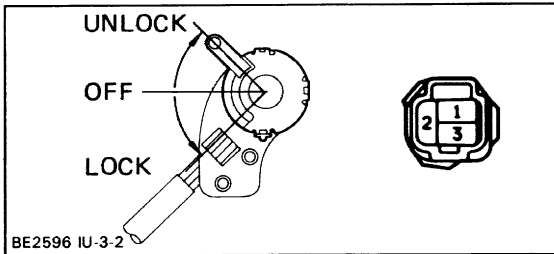
Trouble	Part name	See page
Door lock system does not operate at all	1. POWER Fuse 2. Door Lock Motor 3. Door Lock Control Relay 4. Wire Harness 5. Power Main Relay	BE-6, BE-10 BE-75 BE-77 — BE-71
Door lock system does not operate by manual switch	1. Door Lock Manual Switch 2. Door Lock Control Relay 3. Wire Harness	BE-74 BE-77 —
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-74 BE-77 — —
Fault in key confine prevention operate	1. Door Lock Control Relay 2. Key Unlock Warning Switch 3. Door Courtesy Switch 4. Wire Harness	BE-77 BE-13 BE-28 —

POWER WINDOW MASTER SWITCH
POWER WINDOW MASTER SWITCH INSPECTION
MASTER SWITCH: DRIVER'S DOOR LOCK MANUAL SWITCH/CONTINUITY

 BE2594 S-14-2-B	Terminal Switch position	1 and 2	3	4
	LOCK	○		○
	OFF			
	UNLOCK	○	○	

If continuity is not as specified, replace the switch.

DOOR KEY LOCK AND UNLOCK SWITCH
DOOR KEY LOCK AND UNLOCK SWITCH INSPECTION
CONTINUITY

 BE2596 IU-3-2	Terminal Switch position	1	2	3
	LOCK	○		○
	OFF			
	UNLOCK		○	○

If continuity is not as specified, replace the switch.
HINT: Door key lock and unlock switch is built into the front door lock assembly.

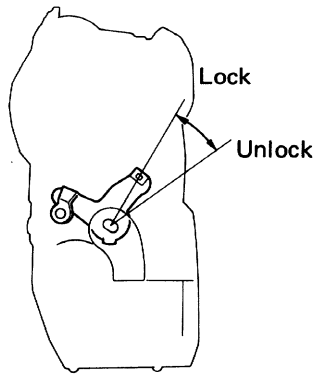
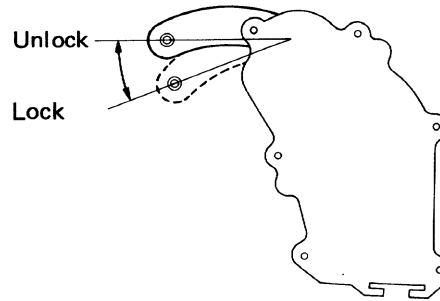
KEY UNLOCK WARNING SWITCH
KEY UNLOCK WARNING SWITCH INSPECTION
See key confine prevention system on page [BE-13](#).

DOOR COURTESY SWITCH
DOOR COURTESY SWITCH INSPECTION
See open door warning system on page [BE-28](#).

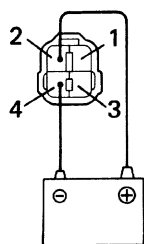
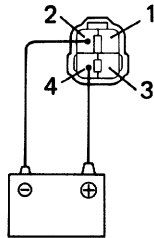
DOOR LOCK MOTOR

DOOR LOCK MOTOR INSPECTION

MOTOR OPERATION

Front Door**Rear Door and Back Door**

BE5090 BE5091

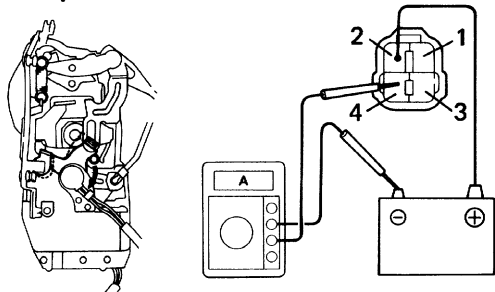
Unlock**Lock**

BE2599 BE2602

(a) Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 4, check that the door lock link moves to UNLOCK position.

(b) Remove the polarity, check that the door lock link move to LOCK position.

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

Example: Front Door

BE5092 BE2604

PTC THERMISTOR OPERATION

INSPECTION USING AN AMMETER

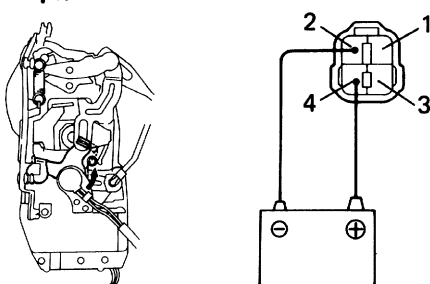
(a) Connect the positive (+) lead from the battery to terminal 2.

(b) Connect the positive (+) lead from the ammeter to terminal 4 and the negative (-) lead to battery negative (-) terminal, check that the current changes from approximately 3.2 ampere to less than 0.5 ampere with 20 to 70 seconds.

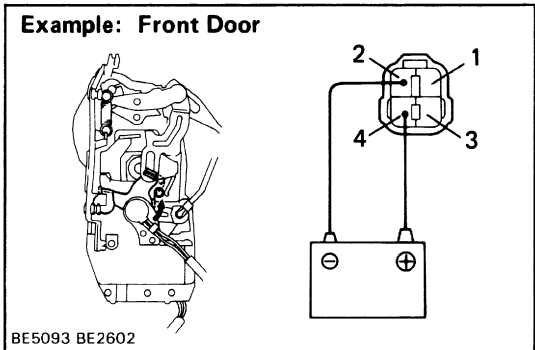
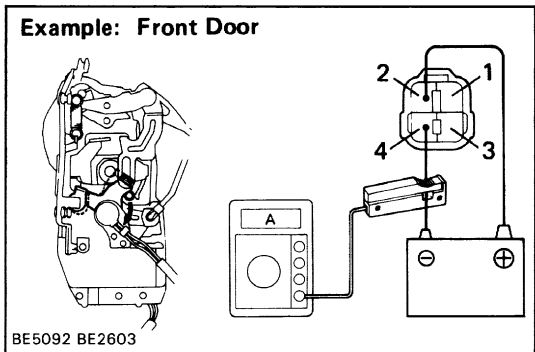
(c) Disconnect the leads from terminals.

(d) Approximately 60 seconds later, connect the positive (+) lead from the battery to terminal 4 and the negative (-) lead to terminal 2 check that the door lock moves to LOCK position.

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

Example: Front Door

BE5093 BE2602



INSPECTION 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, check that the current changes from approximately 3.2 ampere to less than 0.5 ampere within 20 to 70 seconds.
- (c) Disconnect the leads from terminals.
- (d) Approximately 60 seconds later, reverse the polarity, check that the door lock moves to LOCK position. If operation is not as specified, replace the door lock assembly.

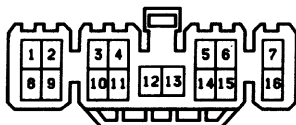
DOOR UNLOCK DETECTION SWITCH
DOOR UNLOCK DETECTION SWITCH INSPECTION
CONTINUITY

Terminal	Switch position	
	1	3
OFF (Door lock set to LOCK)		
ON (Door lock set to UNLOCK)	○	○

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

POWER MAIN RELAY
POWER MAIN RELAY INSPECTION
See power main relay on page [BE-71](#).

Wire Harness Side



S-16-1-A

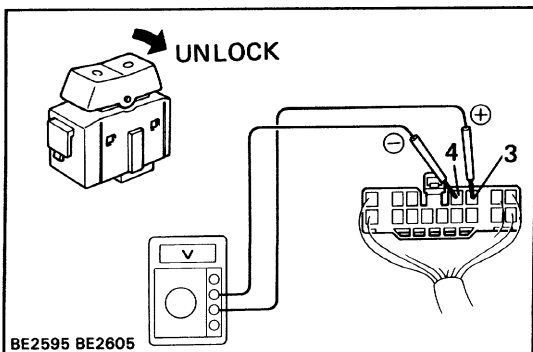
DOOR LOCK CONTROL RELAY**DOOR LOCK CONTROL RELAY INSPECTION****RELAY CIRCUIT**

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

Check for	Tester connection	Condition		Specified value
Continuity	2—Ground	Driver's door courtesy switch position	OFF (Door closed)	No continuity
			ON (Door opened)	Continuity
	5—Ground	Passenger's door lock switch position	OFF (Door locked)	No continuity
			ON (Door unlocked)	Continuity
	6—Ground	Driver's door lock switch position	OFF (Door locked)	No continuity
			ON (Door unlocked)	Continuity
	7—Ground	Key unlock warning switch position	OFF (Ignition key removed)	No continuity
			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
			Unlock (Door key turned to unlock)	Continuity
	10—Ground	Door lock manual switch position	OFF or Unlock	No continuity
			Lock	Continuity
Voltage	1—Ground	Ignition switch position	LOCK or ACC	No voltage
			ON	Battery positive voltage
	8—Ground	Constant		Battery positive voltage
	11—Ground	Door lock manual switch position	OFF or Lock	No continuity
			Unlock	Continuity
	12—Ground	Door key lock and unlock switch position	OFF or Unlock (Door key free or turned to unlock)	No continuity
			Lock (Door key turned to lock)	Continuity
	14—Ground	Passenger's door courtesy switch position	OFF (Door closed)	No continuity
			ON (Door opened)	Continuity
	16—Ground	Constant		Continuity

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

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

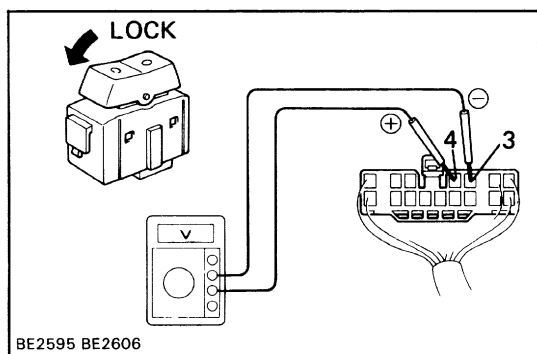


BE2595 BE2605

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, check that the voltage rises from 0 volts to battery positive voltage for approximately 0.2 seconds.



- (d) Reverse the polarity of the voltmeter leads.
 - (e) Set the door lock manual switch to LOCK, check that the voltage rises from 0 volts to battery positive voltage for approximately 0.2 seconds.
- If operation is not as specified, replace the relay.