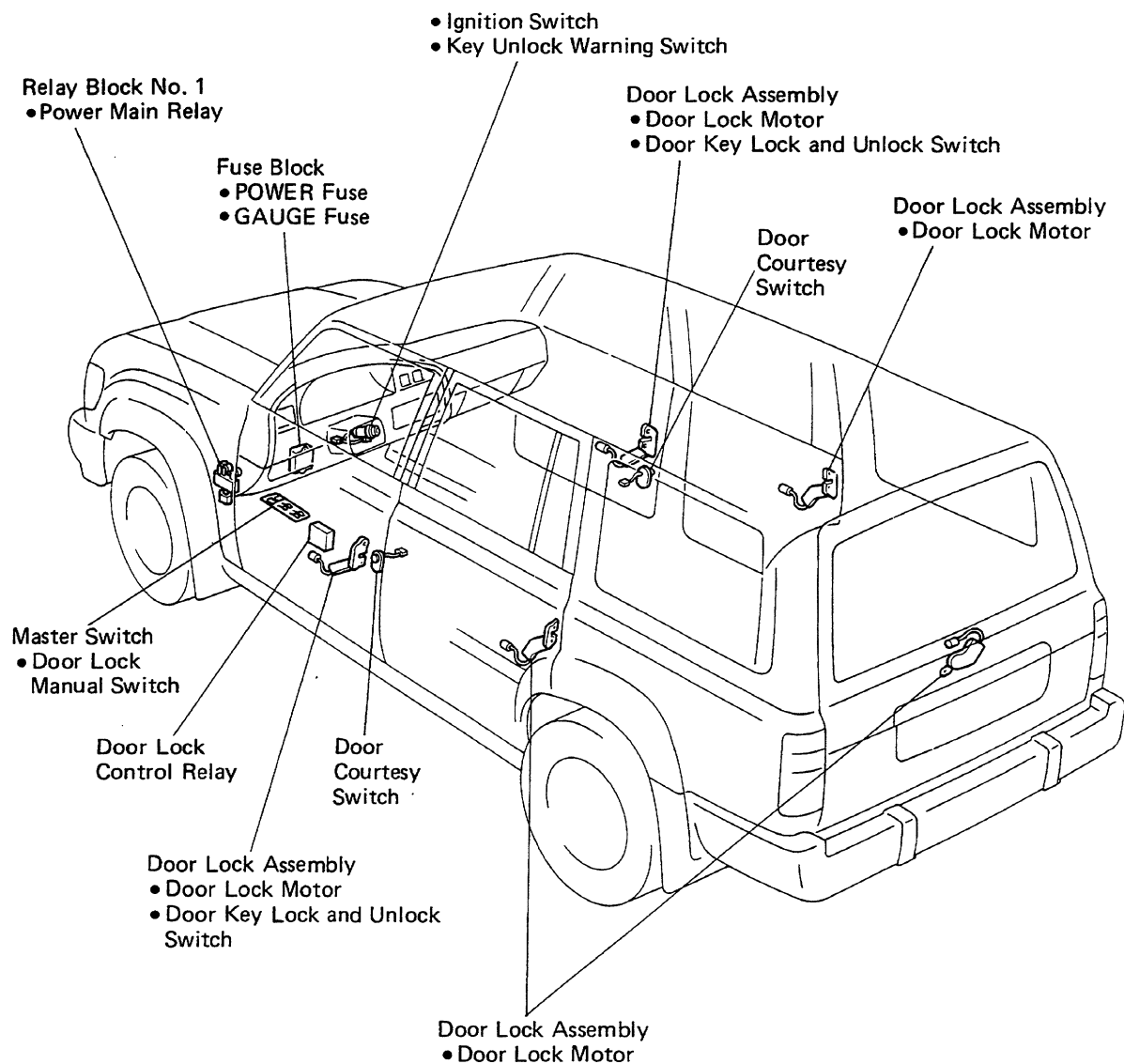
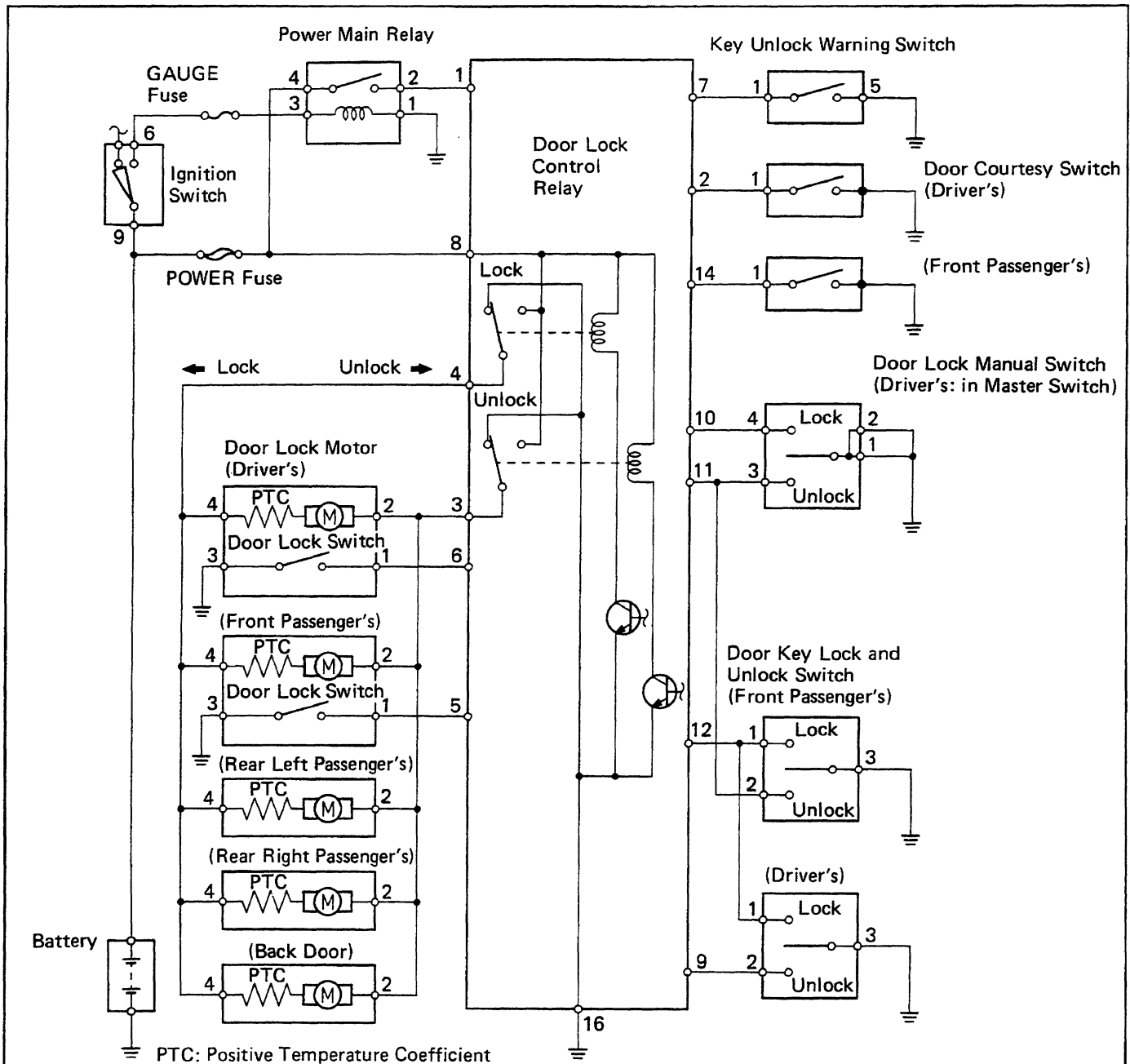


# POWER DOOR LOCK CONTROL SYSTEM

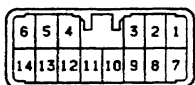
## Parts Location



# Wiring and Connector Diagrams



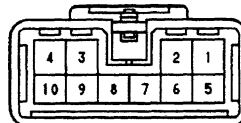
Door Lock Manual Switch  
(Driver's: in Master Switch)



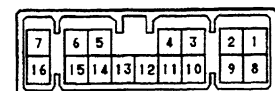
Door Key Lock and  
Unlock Switch



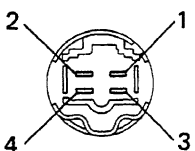
• Ignition Switch  
• Key Unlock  
Warning Switch



Door Lock Control  
Relay



Power Main Relay



Door Lock Motor



Door Courtesy Switch



The POWER SOURCE CIRCUIT has been simplified. For full details, see page BE-10.

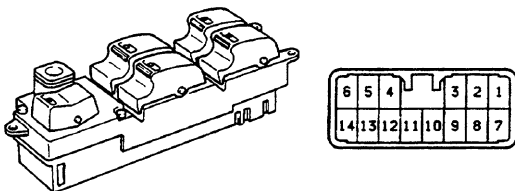
## Troubleshooting

| Problem                                            | Possible cause                                                                                                                    | Remedy                                                                                               | Page                                                                                                   |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Door lock system does not operate at all           | POWER fuse blown<br>Door lock motor faulty<br>Door lock control relay faulty<br>Wiring or ground faulty<br>Power main relay fault | Replace fuse and check for short<br>Check motor<br>Check relay<br>Repair as necessary<br>Check relay | <a href="#">BE-4, 6</a><br><a href="#">BE-56</a><br><a href="#">BE-58</a><br><br><a href="#">BE-57</a> |
| Door lock system does not operate by manual switch | Door lock manual switch faulty<br>Door lock control relay faulty<br>Wiring faulty                                                 | Check switch<br>Check relay<br>Repair as necessary                                                   | <a href="#">BE-55</a><br><a href="#">BE-58</a>                                                         |
| Door lock system does not operate by door key      | Door key lock and unlock switch faulty<br>Door lock control relay faulty<br>Wiring faulty<br>Door lock link disconnected          | Check switch<br>Check relay<br>Repair as necessary<br>Connect link                                   | <a href="#">BE-55</a><br><a href="#">BE-58</a>                                                         |
| Fault in key confine prevention operation          | Door lock control relay faulty<br>Key unlock warning switch faulty<br>Door courtesy switch faulty<br>Wiring faulty                | Check relay ,<br>Check switch<br>Check switch<br>Repair as necessary                                 | <a href="#">BE-58</a><br><a href="#">BE-55</a><br><a href="#">BE-55</a>                                |

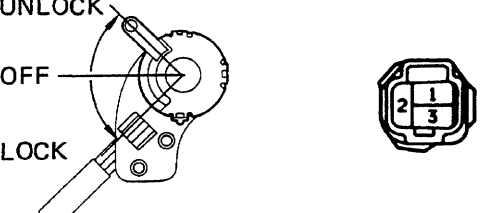
## Parts Inspection

### 1. INSPECT SWITCHES

**(Master Switch: Driver's Door Lock Manual Switch/Continuity)**

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

**(Door Key Lock and Unlock Switch/Continuity)**

|                                                                                                      |                             |   |   |   |
|------------------------------------------------------------------------------------------------------|-----------------------------|---|---|---|
| <br>BE2596 IU-3-2 | Terminal<br>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.

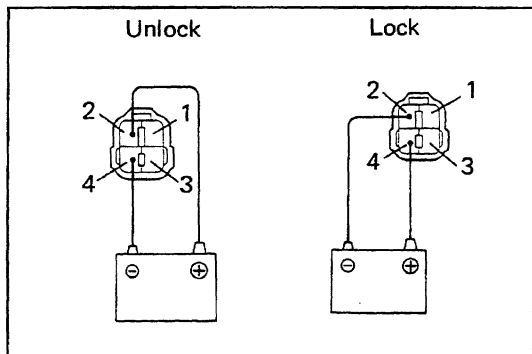
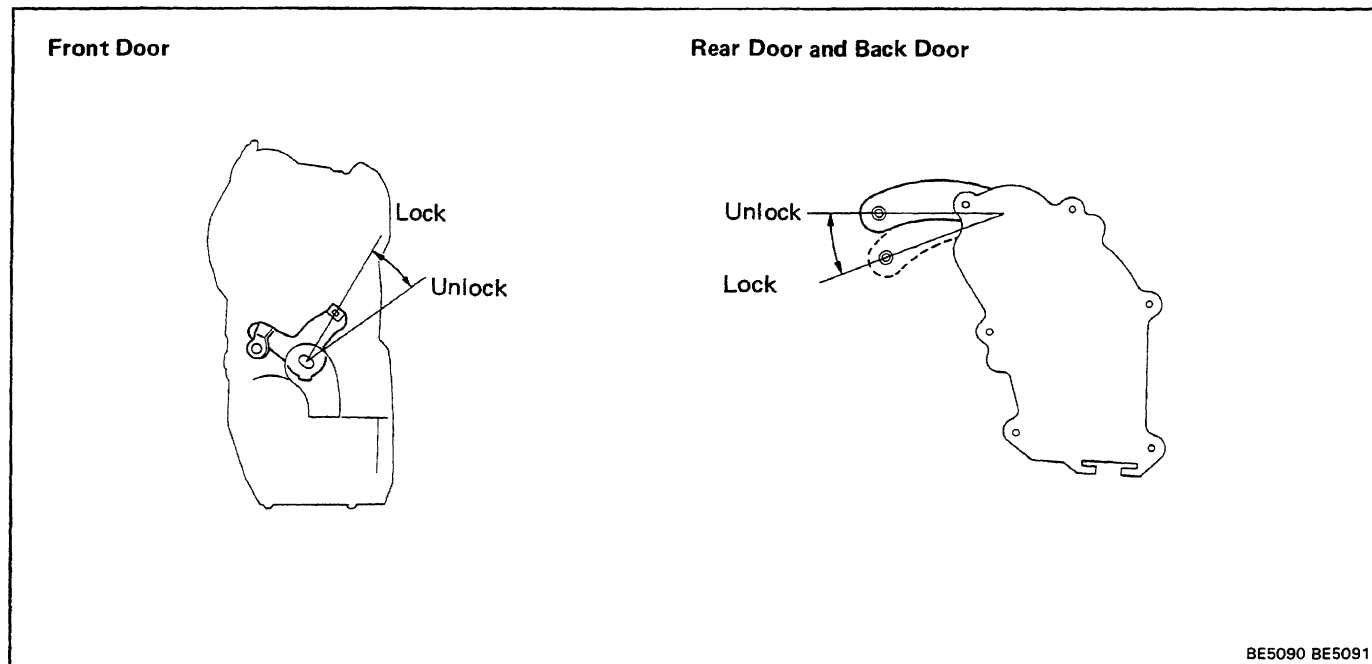
**(Key Unlock Warning Switch/Continuity)**

See Step 1 of Key Confine Prevention System on page [BE-12](#).

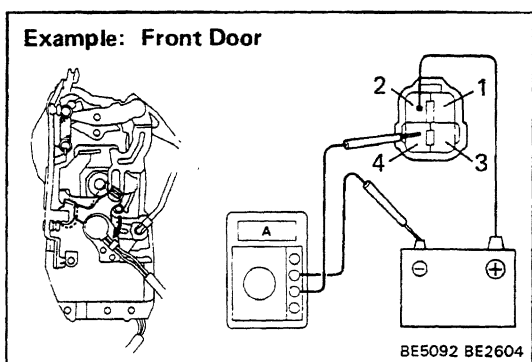
**(Door Courtesy Switch/Continuity)**

See Step 2 of Open Door Warning System on page [BE-40](#).

## 2. INSPECT DOOR LOCK MOTOR (Motor Operation)



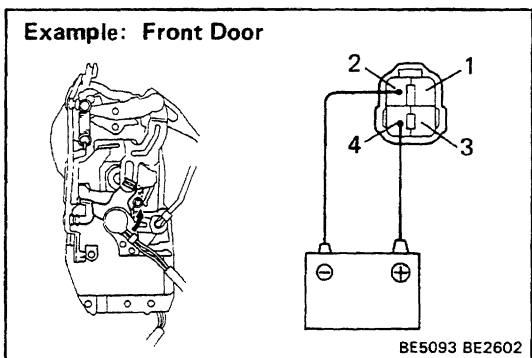
- Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 4, check that the door lock link moves to UN-LOCK position.
  - Remove the polarity, check that the door lock link move to LOCK position.
- If operation is not as specified, replace the door lock assembly.



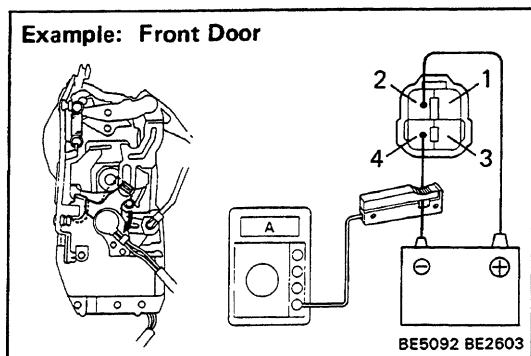
### (PTC Thermistor Operation)

Inspection using an ammeter.

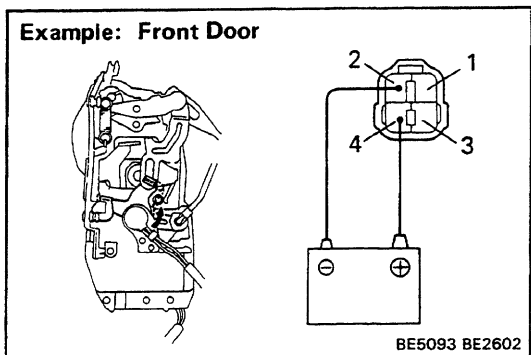
- Connect the positive (+) lead from the battery to terminal 2.
- Connect the positive (+) lead from the ammeter to terminal 4 and the negative (-) lead to battery negative (-) terminal, check that the current changes from approximately 3.2 ampere to less than 0.5 ampere with 20 to 70 seconds.



- 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 check that the door lock moves to LOCK position.
- If operation is not as specified, replace the door lock assembly.

**Example: Front Door****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.

**Example: Front Door**

- (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 Lock Switch /Continuity)**

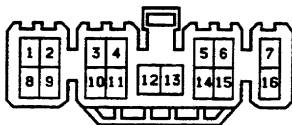
| Terminal                     |  | 1 | 3 |
|------------------------------|--|---|---|
| Switch position              |  |   |   |
| OFF (Door lock set to LOCK)  |  |   |   |
| ON (Door lock set to UNLOCK) |  |   |   |

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

**3. INSPECT POWER MAIN RELAY**

See power main relay on page [BE-52](#).

## Wire Harness Side



S-16-1-A

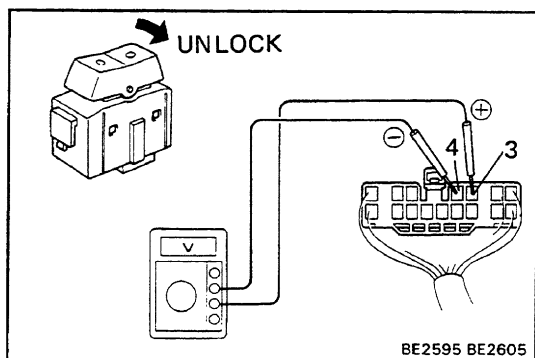
#### 4. INSPECT DOOR LOCK CONTROL RELAY (Relay Circuit)

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)                                 |
|            |                   |                                           | ON (Door opened)                                  |
|            | 5-Ground          | Passenger's door lock switch position     | OFF (Door locked)                                 |
|            |                   |                                           | ON (Door unlocked)                                |
|            | 6-Ground          | Driver's door lock switch position        | OFF (Door locked)                                 |
|            |                   |                                           | ON (Door unlocked)                                |
|            | 7-Ground          | Key unlock warning switch position        | OFF (ignition key removed)                        |
|            |                   |                                           | 4N (Ignition key set)                             |
|            | 9-Ground          | Door key lock and unlock switch position  | OFF or Lock (Door key free or turned to lock)     |
|            |                   |                                           | Unlock (Door key turned to unlock)                |
|            | 10-Ground         | Door lock manual switch position          | OFF or Unlock                                     |
|            |                   |                                           | Lock                                              |
| Voltage    | 11 -Ground        | Door lock manual switch position          | OFF or Lock                                       |
|            |                   |                                           | Unlock                                            |
|            | 12-Ground         | Door key lock and unlock switch position  | OFF or Unlock (Door key free or turned to unlock) |
|            |                   |                                           | Lock (Door key turned to lock)                    |
|            | 14-Ground         | Passenger's door courtesy switch position | OFF (Door closed)                                 |
|            |                   |                                           | ON (Door opened)                                  |
|            | 16-Ground         | Constant                                  | Continuity                                        |
| Voltage    | 1 -Ground         | Ignition switch position                  | LOCK                                              |
|            |                   |                                           | ACC or ON                                         |
|            | 8-Ground          | Constant                                  | Battery voltage                                   |

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

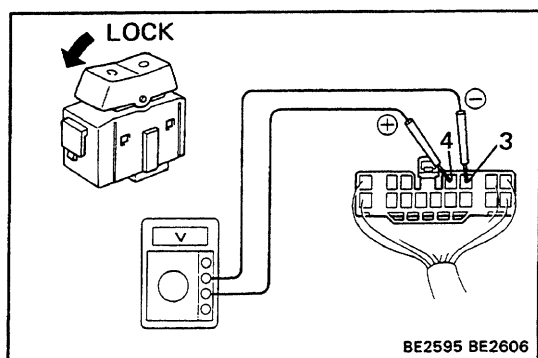
If the circuit is not as specified, refer to [BE-54](#) wiring diagram and inspect the circuits connected to other parts.



#### (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 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 voltage for approximately 0.2 seconds.
- If operation is not as specified, replace the relay.