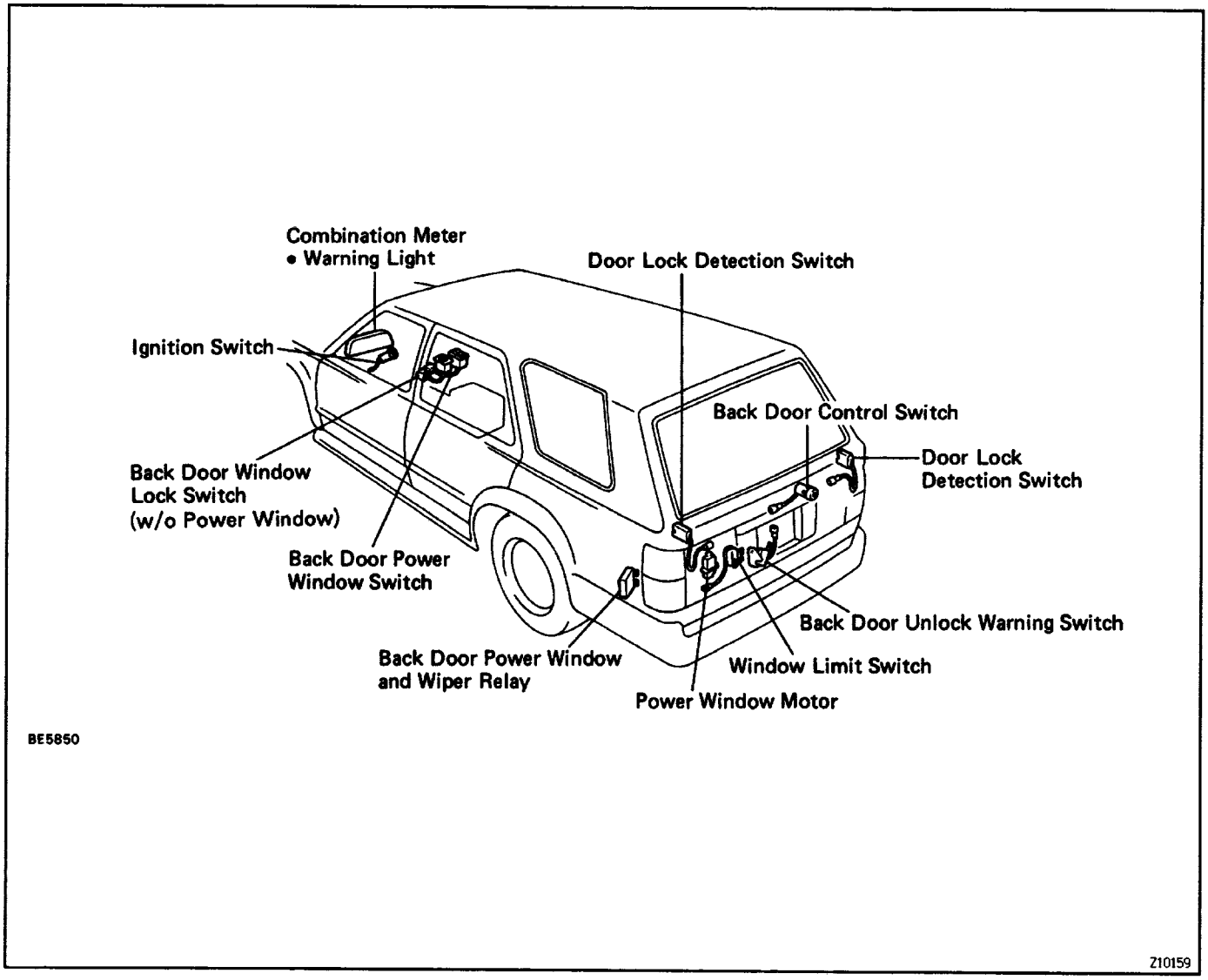
BACK DOOR POWER WINDOW CONTROL SYSTEM

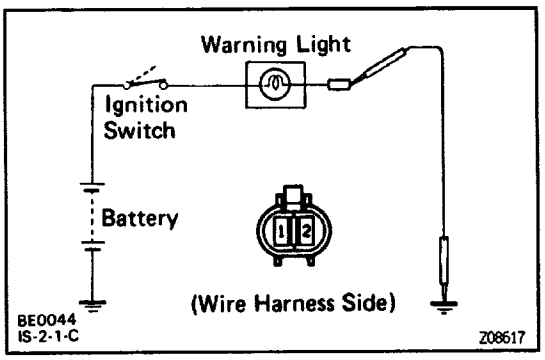
PARTS LOCATION



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)
Power window does not work	1. Fusible link	
	2. Circuit breaker OFF	
	3. WIPER Fuse	(BE–11)
	4. Power Window and Wiper Relay	(BE–74)
	5. Power Window Regulator Switch	(BE–70)
	6. Window Lock Switch (w/o Power Window)	(BE–71)
	7. Back Door Control Switch	(BE–71)
	8. Door Lock Detection Switch	(BE–72)
	9. Back Door Unlock Warning Switch	(BE–72)
	10. Power Window Motor	(BE–73)
	11. Rear Wiper Motor (w/ Rear Wiper)	(BE–43)
	12. Wire Harness	
Back Door Warning light does not Light (Ignition Switch ON)	1. GAUGE Fuse	(BE–11)
	2. Light Bulb Burned Out	
	3. Door Lock Detection Switch (Back Door Opened)	(BE–72)
	4. Back Door Unlock warning Switch (Back Door Unlocked)	(BE–72)
	5. Power Window and Wiper Relay	(BE–74)
	6. Wire Harness	
Back Door Unlock Warning Buzzer does not blow	1. WIPER Fuse	(BE–11)
	2. Door Lock Detection Switch	(BE–72)
	3. Power Window Regulator Switch	(BE–70)
	4. Back Door Control Switch	(BE–71)
	5. Power Window and Wiper Relay	(BE–74)
	8. Wire Harness	

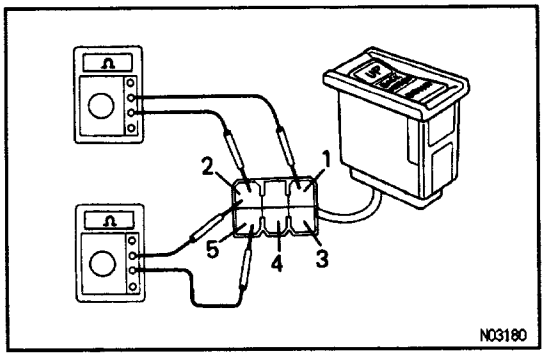


BACK DOOR WARNING LIGHT INSPECTION

INSPECT BACK DOOR WARNING LIGHT

(a) Disconnect the connector from the back door unlock warning switch and ground the terminal 1 of the wire harness side connector.

(b) Turn the ignition switch on and check that the bulb lights. If operation is not as specified, remove and test the bulb.

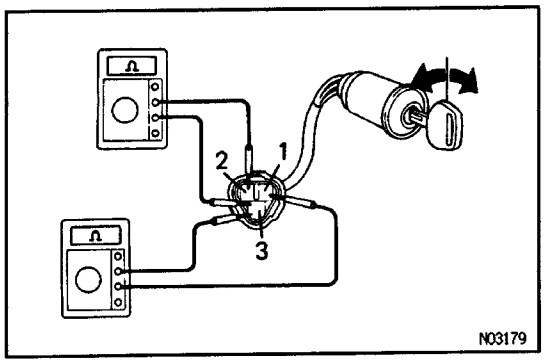


POWER WINDOW REGULATOR SWITCH INSPECTION

INSPECT POWER WINDOW REGULATOR SWITCH CONTINUITY

Switch position	Tester connection to terminal number	Specified condition
UP	2 – 5	Continuity
OFF	–	No continuity
DOWN	1 – 2	Continuity
Illumination circuit (UP, OFF, DOWN)	3 – 4	Continuity

If continuity is not as specified, replace the switch.

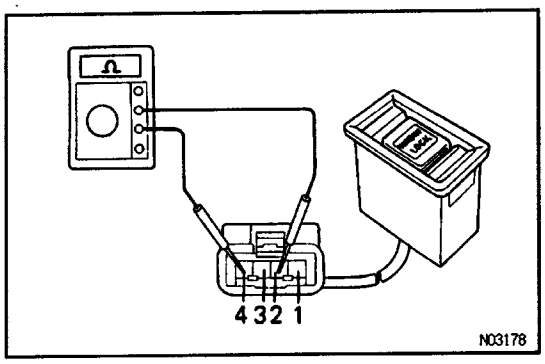


BACK DOOR CONTROL SWITCH INSPECTION

INSPECT BACK DOOR CONTROL SWITCH CONTINUITY

Switch position	Tester connection to terminal number	Specified condition
Turn to right	**2 – 3**	**Continuity**
OFF	**–**	**No continuity**
Turn to left	**1 – 3**	**Continuity**

If continuity is not as specified, replace the switch.

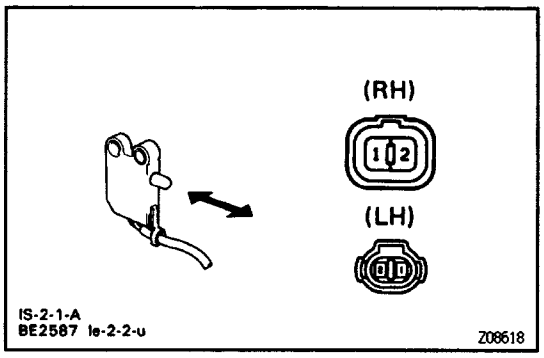


w/o Power Window
BACK DOOR WINDOW LOCK SWITCH INSPECTION

INSPECT BACK DOOR WINDOW LOCK SWITCH CONTINUITY

Switch position	Tester connection to terminal number	Specified condition
FREE	**2 – 4**	**Continuity**
LOCK	**–**	**No continuity**
Illumination circuit (FREE, LOCK)	**1 – 3**	**Continuity**

If continuity is not as specified, replace the switch.

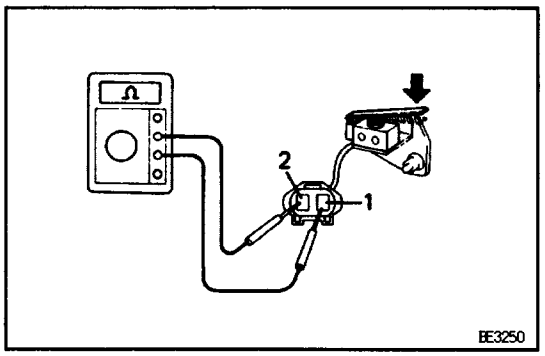


DOOR LOCK DETECTION SWITCH INSPECTION

INSPECT DOOR LOCK DETECTION SWITCH CONTINUITY

Switch position	Tester connection to terminal number	Specified condition
Switch pin pushed in (Door closed)	–	**No continuity**
Switch pin released (Door opened)	**1 – 2**	**Continuity**

If continuity is not as specified, replace the switch.

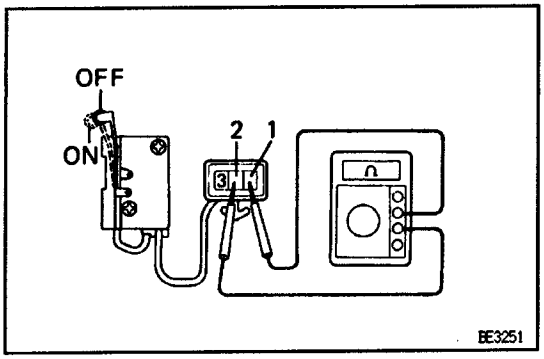


BACK DOOR UNLOCK WARNING SWITCH INSPECTION

INSPECT BACK DOOR UNLOCK WARNING SWITCH CONTINUITY

Switch position	Tester connection to terminal number	Specified condition
Switch pin pushed (Back door unlocked)	**1 – 2**	**Continuity**
Switch pin released (Back door locked)	–	**No continuity**

If continuity is not as specified, replace the switch.

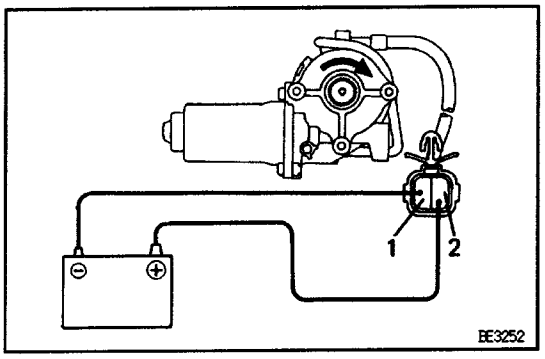


WINDOW LIMIT SWITCH INSPECTION

INSPECT WINDOW LIMIT SWITCH CONTINUITY

Switch position	Tester connection to terminal number	Specified condition
Switch lever pushed (OFF position)	–	**No continuity**
Switch lever released (ON position)	**1 – 2**	**Continuity**

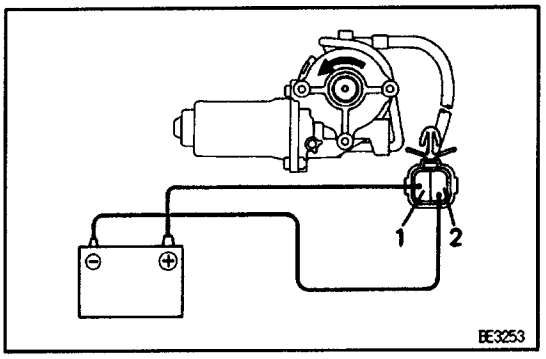
If continuity is not as specified, replace the switch.



POWER WINDOW MOTOR INSPECTION

INSPECT POWER WINDOW MOTOR OPERATION

(a) Connect the positive (+) lead from the battery to terminal 2 and the negative (–) lead to terminal 1 and check that the motor turns clockwise.

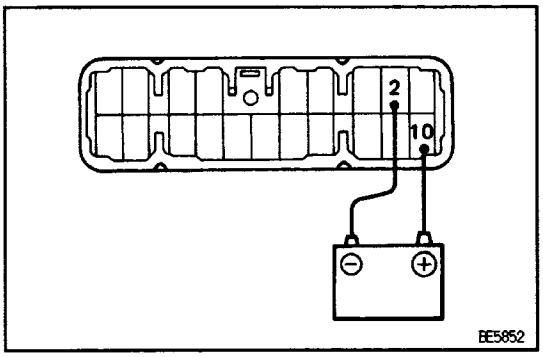


(b) Connect the positive (+) lead from the battery to terminal 1 and the negative (–) lead to terminal 2 and check that the motor turns counterclockwise.
If operation is not as specified, replace the motor.

POWER WINDOW AND WIPER RELAY INSPECTION

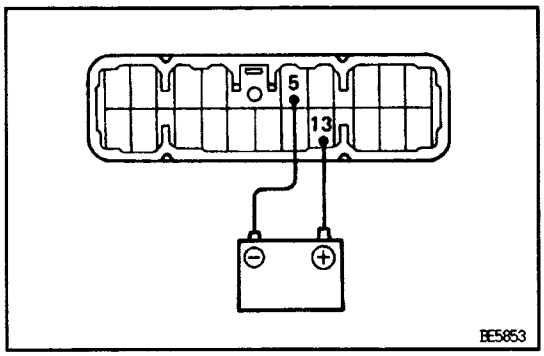
INSPECT POWER WINDOW AND WIPER RELAY CIRCUIT

HINT: Disconnect the connector, inspect on the wire harness side.



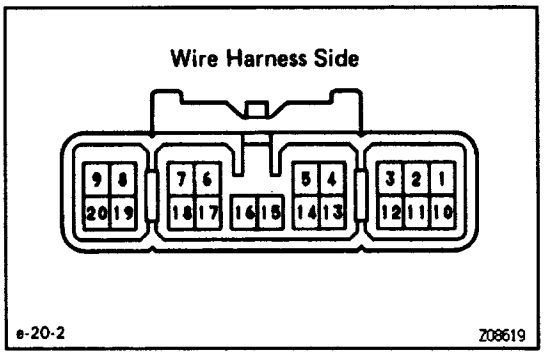
Wiper Motor

Apply battery positive voltage between terminals 2 and 10, check that the wiper motor turns.
If does not operate, inspect the wire harness and motor, then if they are OK, replace the relay.



Power Window Motor

Apply battery positive voltage between terminals 5 and 13, check that the power window motor turns.
If does not operate, inspect the wire harness and motor, then if they are OK, replace the relay.



Other Wire Harness

Inspect the connector on the wire harness side shown in the chart on next page.

w/o Rear wiper

Tester connection to terminal number	Condition	Specified condition
3 — Body ground	—	**Continuity**
6 — Body ground	Door lock detection switch to LOCK (Back door close) and power window switch to DOWN (Window downy	**Continuity**
6 — Body ground	Door lock detection switch to UNLOCK (Back door open) or power window switch to any position except DOWN (Window not down)	**No continuity**
7 — Body ground	Door lock detection switch to LOCK (Back door close) and power window switch to UP (Window up)	**Continuity**
7 — Body ground	Door lock detection switch to UNLOCK (Back door open) or power window switch to any position except UP (Window not up)	**No continuity**
9 — Body ground	Door lock detection switch to LOCK (Back door close) and door control switch to DOWN (Window down)	**Continuity**
9 — Body ground	Door lock detection switch to UNLOCK (Back door open) or door control switch to any position except DOWN (Window not down)	**No continuity**
11 — Body ground	Back door unlock switch ON	**Continuity**
11 — Body ground	Back door unlock switch OFF	**No continuity**
12 — Body ground	Door lock detection switch to LOCK (Back door close)	**Continuity**
12 — Body ground	Door lock detection switch to UNLOCK (Back door open)	**No continuity**
17 — Body ground	Door lock detection switch to LOCK (Back door close) and door control switch to UP (Window up)	**Continuity**
17 — Body ground	Door lock detection switch to UNLOCK (Back door open) or door control switch to any position except UP (Window not up)	**No continuity**
1 — Body ground	Ignition switch ON	**Battery positive voltage**
1 — Body ground	Ignition switch OFF	**No voltage**
4 — Body ground	—	**Battery positive voltage**

If circuit operation is correct, replace the relay.

w/ Rear Wiper

Tester connection to terminal number	Condition	Specified condition
2 – Body ground	Rear window washer switch 4N	Continuity
2 – Body ground	Rear window washer switch OFF	No continuity
3 – Body ground	–	Continuity
6 – Body ground	Door lock detection switch to LOCK (Back door close) and power window switch to DOWN (Window down)	Continuity
6 – Body ground	Door lock detection switch to UNLOCK (Back door open) or power window switch to any position except DOWN (Window not down)	No continuity
7 – Body ground	Door lock detection switch to LOCK (Back Door close) and power window switch to UP (Window up)	Continuity
7 – Body ground	Door lock detection switch to UNLOCK (Back door open) or window regulator switch to any position except UP (Window not up)	No continuity
8 – Body ground	Power window limit switch ON	Continuity
8 – Body ground	Power window limit switch OFF	No continuity
9 – Body ground	Door lock detection switch to LOCK (Back door close) and door control switch to DOWN (Window down)	Continuity
9 – Body ground	Door lock detection switch to UNLOCK (Back door open) or door control switch to any positive except DOWN (Window not down)	No continuity
11 – Body ground	Back door unlock switch ON	Continuity
11 – Body ground	Back door unlock switch OFF	No continuity
12 – Body ground	Door lock detection switch to LOCK (Back door close)	Continuity
12 – Body ground	Door lock detection switch to UNLOCK (Back door open)	No continuity
14 – 19	Rear wiper arm rise up position	Continuity
14 – 19	Except this wiper arm rise up position	No continuity
17 – Body ground	Door lock detection switch to LOCK (Back door close) and door control switch to UP (Window up)	Continuity
17 – Body ground	Door lock detection switch to UNLOCK (Back door open) or door control switch to any position except UP (Window not up)	No continuity
18 – Body ground	Rear window wiper switch INT	Continuity
18 – Body ground	Rear window wiper switch OFF	No continuity
20 – Body ground	Rear window wiper switch ON	Continuity
20 – Body ground	Rear window wiper switch OFF	No continuity

Tester connection to terminal number	Condition	Specified condition
1 – Body ground	Ignition switch ON	**Battery positive voltage**
1 – Body ground	Ignition switch OFF	**No voltage**
4 – Body ground	–	**Battery positive voltage**

If circuit operation is correct, replace the relay.