

# HEADLIGHT AND TAILLIGHT SYSTEM

## PARTS LOCATION

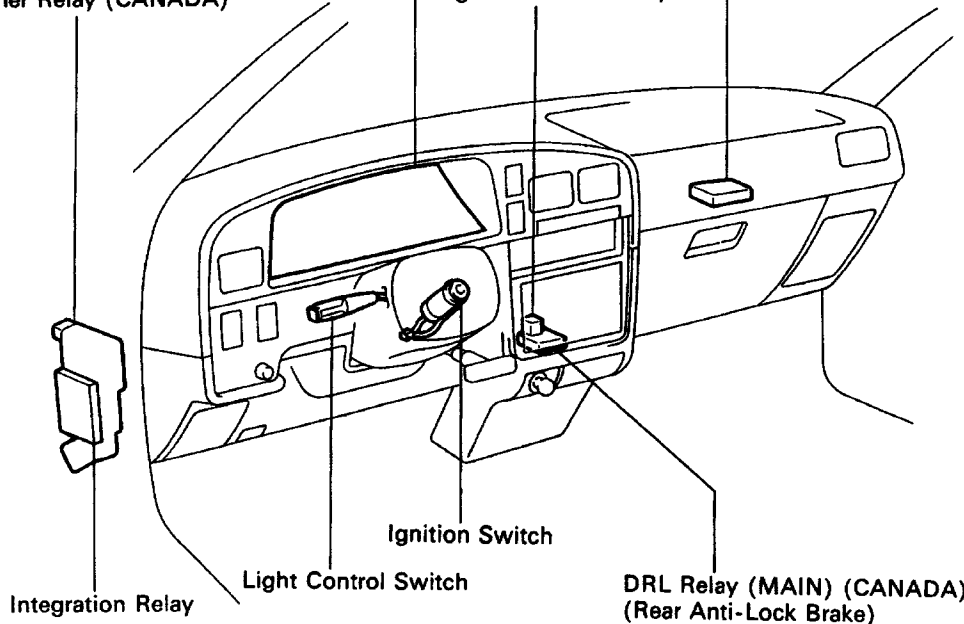
## J/B No.1

- Taillight Control Relay
- TAIL Fuse
- DRL Relay No.4 (CANADA)
- Dimmer Relay (CANADA)

High Beam Indicator Light

DRL Relay (MAIN) (CANADA)  
(4-ABS)

Light Reminder Relay

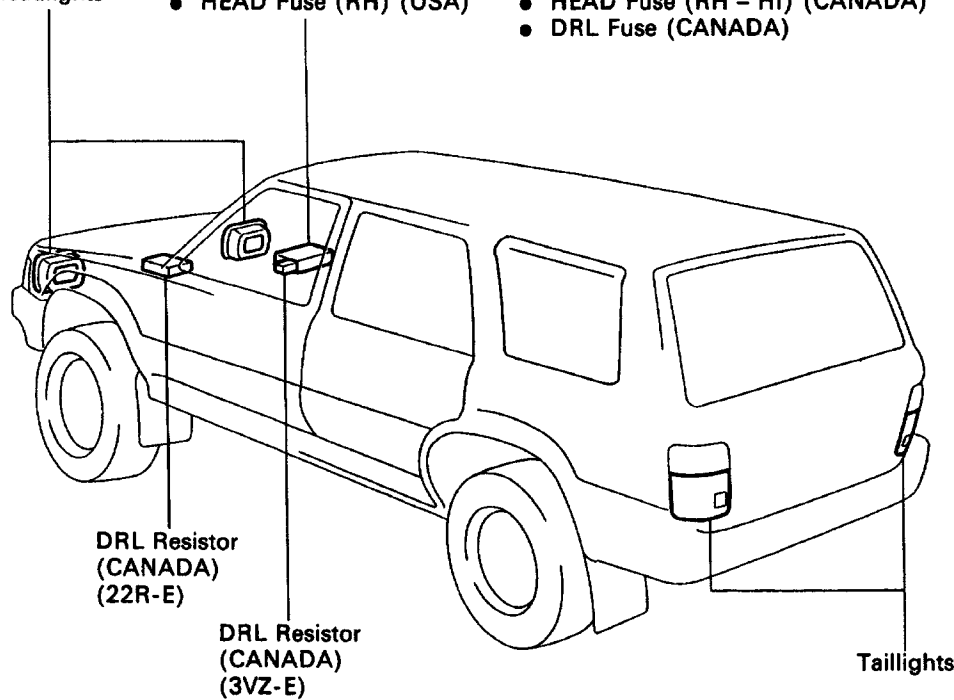


## R/B No.2

- Headlight Control Relay
- DOME Fuse
- HEAD Fuse (LH) (USA)
- HEAD Fuse (RH) (USA)

- HEAD Fuse (LH - LO) (CANADA)
- HEAD Fuse (RH - LO) (CANADA)
- HEAD Fuse (LH - HI) (CANADA)
- HEAD Fuse (RH - HI) (CANADA)
- DRL Fuse (CANADA)

Headlights



## 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.

### USA

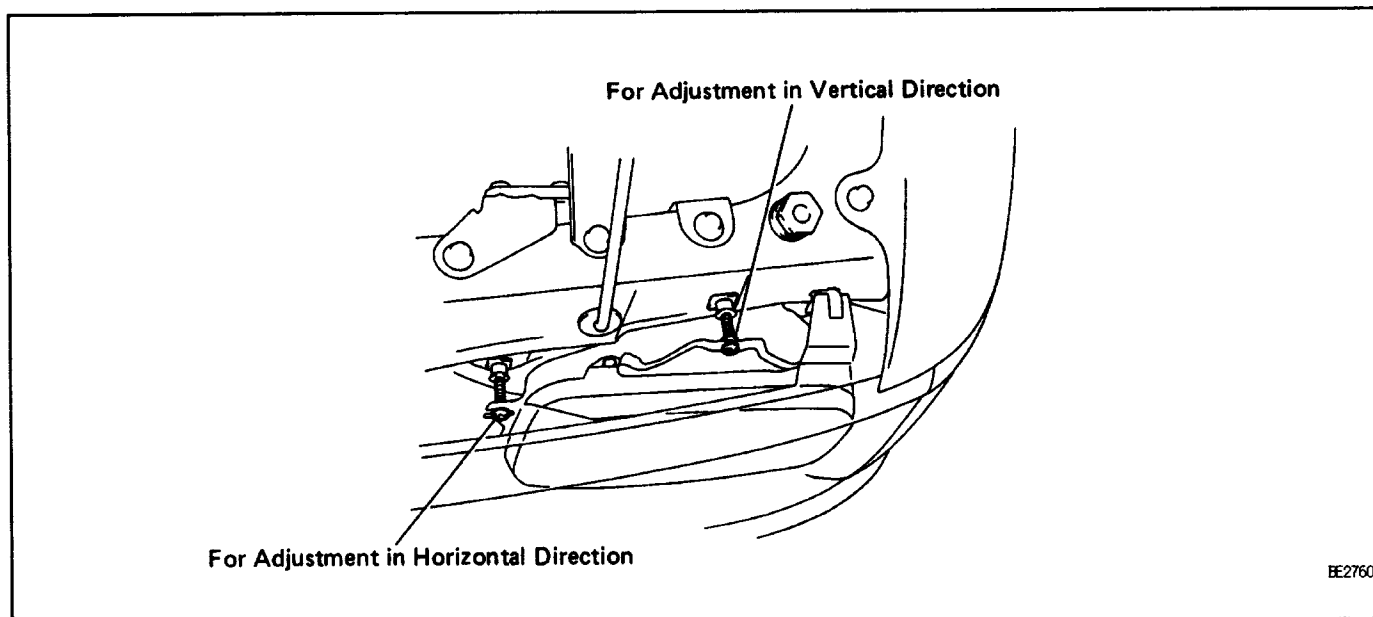
Trouble	Parts name (See page)
Headlight does not light up (Taillight is normal)	1. Headlight Bulb 2. HEAD Fuse (BE-11) 3. Headlight Control Relay (BE-21) 4. Light Control Switch (BE-21) 5. Dimmer Switch (BE-21) 6. Wire Harness
Taillight does not light up (Headlight is normal)	1. Taillight Bulb 2. TAIL Fuse (BE-11) 3. Taillight Control Relay (BE-22) 4. Light Control Switch (BE-21) 5. Wire Harness
Headlight and Taillight does not light up	1. Bulbs 2. HEAD Fuse (BE-11) 3. TAIL Fuse (BE-11) 4. Headlight Control Relay (BE-21) 5. Taillight Control Relay (BE-22) 6. Light Control Switch (BE-21) 7. Dimmer Switch (BE-21) 8. Wire Harness
Only one light comes on	1. Bulbs 2. HEAD Fuse (BE-11) 3. Wire Harness
'Lo-Beam" does not light up	1. Headlight Bulb 2. Dimmer Switch (BE-21) 3. Wire Harness
"Hi-Beam" does not light up	1. Headlight Bulb 2. Dimmer Switch (BE-21) 3. Wire Harness
"Flash" does not light up	1. Headlight Bulb 2. Dimmer Switch (BE-21) 3. Wire Harness
Only one Taillight goes out or does not light up	1. Taillight Bulb 2. Wire Harness
Rear Combination light does not light up	1. Taillight Bulb 2. TAIL Fuse (BE-11) 3. Taillight Control Relay (BE-22) 4. Wire Harness

## CANADA

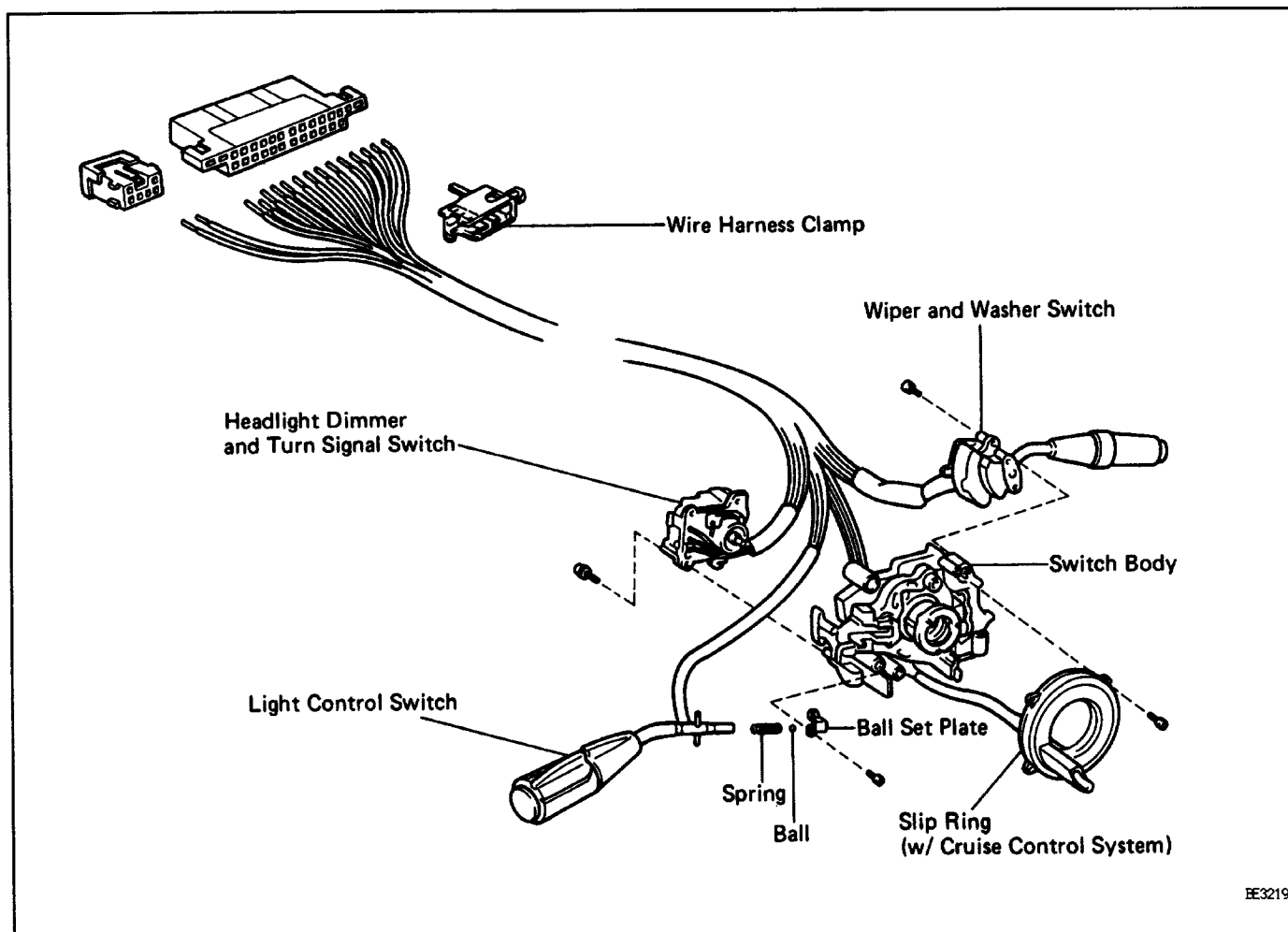
Trouble	Parts name (See page)
Headlight does not light up (Taillight is normal)	1. Headlight Bulb 2. Headlight Control Relay (BE-21) 3. Daytime Running Light Relay (BE-23) 4. Dimmer Switch (BE-21) 5. Headlight Dimmer Relay (BE-22) 6. Daytime Running Light No.4 Relay (BE-24) 7. Daytime Resistor (BE-25) 8. Light Control Switch (BE-21) 9. Wire Harness
Taillight does not light up (Headlight is normal)	1. Taillight Bulb 2. TAIL Fuse (BE-11) 3. Taillight Control Relay (BE-22) 4. Daytime Running Light Relay (BE-23) 5. Light Control Switch (BE-21) 6. Integration Relay (BE-55) 7. Wire Harness
Headlight and Taillight does not light up	1. Bulbs 2. TAIL Fuse (BE-11) 3. Headlight Control Relay (BE-21) 4. Taillight Control Relay (BE-22) 5. Daytime Running Light Relay (BE-23) 6. Dimmer Switch (BE-21) 7. Headlight Dimmer Relay (BE-22) 8. Light Control Switch (BE-21) 9. Daytime Running Light No.4 Relay (BE-24) 10. Daytime Resistor (BE-25) 11. Integration Relay (BE-55) 12. Wire Harness
Only one light comes on	1. Bulbs 2. Wire Harness
"Lo-Beam" does not light up	1. Headlight Bulb 2. HEAD Fuse (BE-11) 3. Headlight Dimmer Relay (BE-22) 4. Dimmer Switch (BE-21) 5. Daytime Running Light Relay (BE-23) 6. Daytime Running Light No.4 Relay (BE-24) 7. Daytime Resistor (BE-25) 8. Wire Harness
"Hi-Beam" does not light up	1. Headlight Bulb 2. HEAD Fuse (BE-11) 3. Headlight Dimmer Relay (BE-22) 4. Dimmer Switch (BE-21) 5. Daytime Running Light Relay (BE-23) 6. Daytime Running Light No.4 Relay (BE-24) 7. Daytime Resistor (BE-25) 8. Wire Harness

Trouble	Parts name	(See page)
"Flash" does not light up	1. Headlight Bulb	
	2. HEAD Fuse	(BE-11)
	3. Headlight Dimmer Relay	(BE-22)
	4. Dimmer Switch	(BE-21)
	5. Daytime Running Light Relay	(BE-22)
	6. Daytime Running Light No.4 Relay	(BE-24)
	7. Daytime Resistor	(BE-25)
	8. Wire Harness	
Only one Taillight goes out or does not light up	1. Taillight Bulb	
	2. Wire Harness	
Rear Combination light does not light up	1. Taillight Bulb	
	2. TAIL Fuse	(BE-11)
	3. Taillight Control Relay	(BE-22)
	4. Wire Harness	
Daytime Running Light system does not operate	1. DOME Fuse	
	2. GAUGE Fuse	(BE-11)
	3. IGN Fuse	(BE-11)
	4. HEAD Fuse	(BE-11)
	5. TAIL Fuse	(BE-11)
	6. Headlight Control Relay	(BE-21)
	7. Taillight Control Relay	(BE-22)
	8. Dimmer Relay	(BE-21)
	9. Ignition Switch	(BE-12)
	10. Light Control/ Dimmer Switch	(BE-21)
	11. Wire Harness	

## HEADLIGHT AIMING ADJUSTMENT



## COMPONENTS

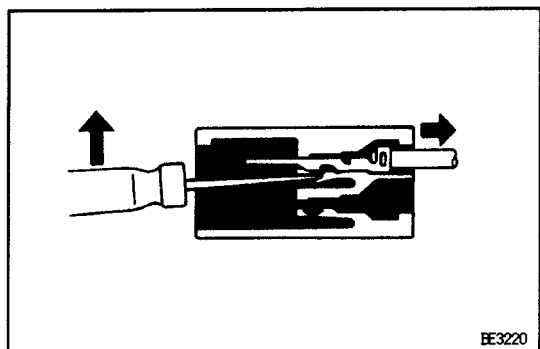


## COMBINATION SWITCH DISASSEMBLY

**NOTICE: w/ Cruise Control System**

To prevent damage to the slip ring when removing the steering wheel, be careful of the following points.

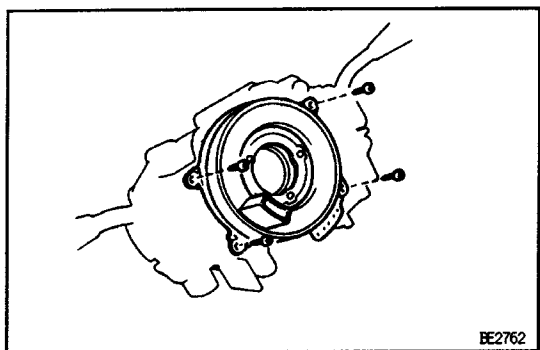
- Keep the steering wheel in the "straight-ahead" steering position.
- Do not let the steering wheel strongly interfere with the connector part of the slip ring.



### 1. REMOVE WIRE HARNESS CLAMP FROM WIRE HARNESS

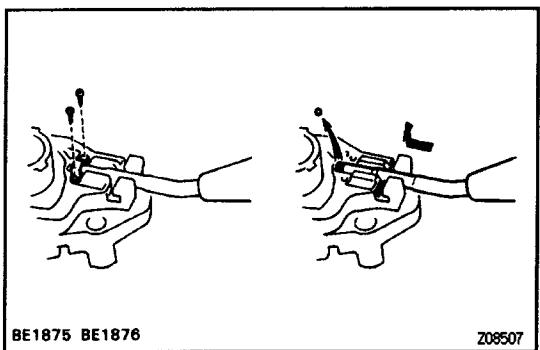
### 2. REMOVE TERMINALS FROM CONNECTOR

- From the open end, insert a miniature screwdriver between the locking lug and terminal.
- Pry down the locking lug with the screwdriver and pull the terminal out from the rear.



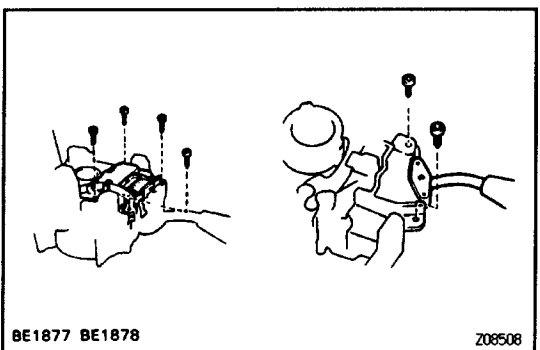
### 3. w/ Cruise Control System: REMOVE SLIP RING

Remove the 4 screws and the slip ring from the switch body.



### 4. REMOVE LIGHT CONTROL SWITCH

- Remove the 2 screws and the ball set plate from the switch body.
- Remove the ball and slide out the switch from the switch body with the spring.

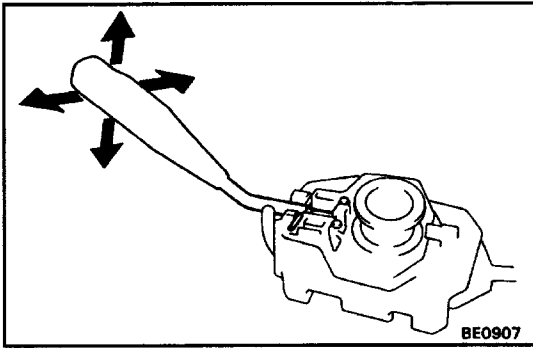


### 5. REMOVE HEADLIGHT DIMMER AND TURN SIGNAL SWITCH

Remove the 4 screws and the switch from the switch body.

### 6. REMOVE WIPER AND WASHER SWITCH

Remove the 2 screws and the switch from the switch body.

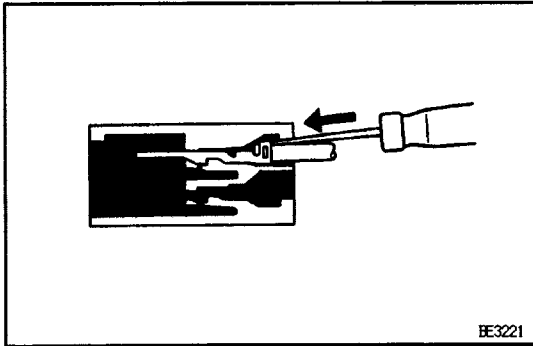


## COMBINATION SWITCH ASSEMBLY

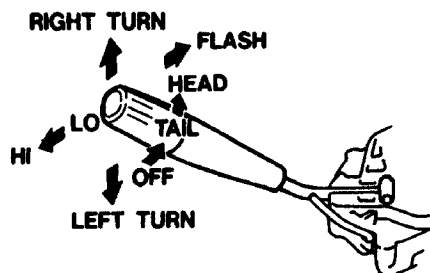
INSTALL PARTS OF COMBINATION SWITCH IN  
REVERSE SEQUENCE OF REMOVAL

HINT:

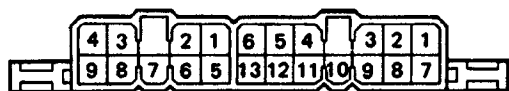
- After installing the light control switch to the switch body, ensure that the switch operation is smoothly.
- Push in the terminal until it is securely locked in the connector lug.



## Reference:



Connector "A" Connector "B"

BE2414  
BE0111

Z08509

**COMBINATION SWITCH INSPECTION****1. INSPECT LIGHT CONTROL SWITCH CONTINUITY**

Switch position	Tester connection to terminal number	Specified condition
OFF	—	No continuity
TAIL	<b>B10 – B11</b>	Continuity
HEAD	<b>B10 – B11 – B4</b>	Continuity

If continuity is not as specified, replace the switch.

**2. INSPECT HEADLIGHT DIMMER SWITCH CONTINUITY**

Switch position	Tester connection to terminal number	Specified condition
Low beam	<b>B6 – B13</b>	Continuity
High beam	<b>B5 – B13</b>	Continuity
Flash	<b>B5 – B12 – B13</b>	Continuity

If continuity is not as specified, replace the switch.

**TURN SIGNAL SWITCH INSPECTION****INSPECT TURN SIGNAL SWITCH CONTINUITY**

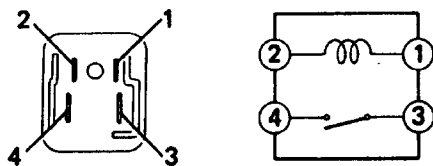
Switch position	Tester connection to terminal number	Specified condition
Left turn	<b>B3 – B9</b>	Continuity
Neutral	—	No continuity
Right turn	<b>B3 – B8</b>	Continuity

If continuity is not as specified, replace the switch.

**HEADLIGHT CONTROL RELAY INSPECTION****INSPECT HEADLIGHT CONTROL RELAY CONTINUITY**

Condition	Tester connection to terminal number	Specified condition
Constant	<b>1 – 2</b>	Continuity
Apply B + between terminals 1 and 2.	<b>3 – 4</b>	Continuity

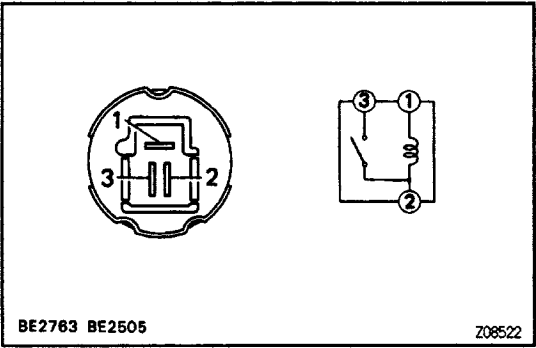
If continuity is not as specified, replace the relay.



BE1838 BE1840

Z08521



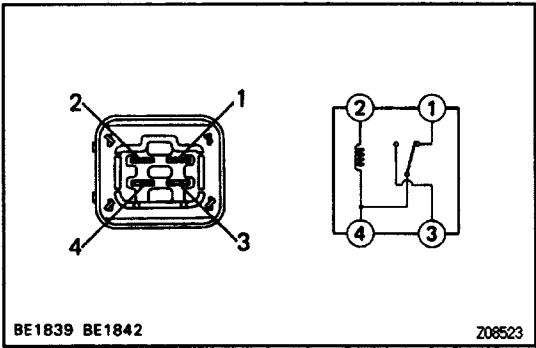


# TAILLIGHT CONTROL RELAY INSPECTION

## INSPECT TAILLIGHT CONTROL RELAY CONTINUITY

Condition	Tester connection to terminal number	Specified condition
Constant	1 – 2	Continuity
Apply B+ between terminals 1 and 2.	2 – 3	Continuity

If continuity is not as specified, replace the relay.

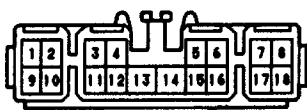


# HEADLIGHT DIMMER RELAY INSPECTION

## INSPECT HEADLIGHT DIMMER RELAY CONTINUITY

Condition	Tester connection to terminal number	Specified condition
Constant	1 – 4 2 – 4	Continuity
Apply B+ between terminals 2 and 4.	3 – 4	Continuity

If continuity is not as specified, replace the relay.

**Wire Harness Side**

e-18-1

Z08524

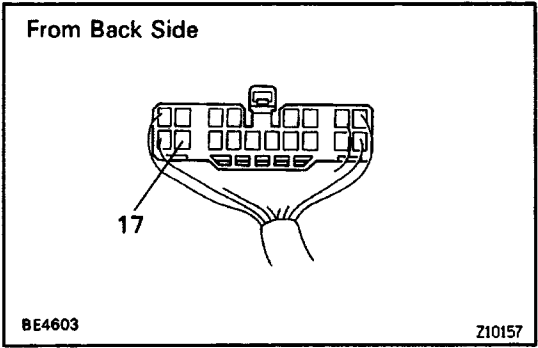
## DAYTIME RUNNING LIGHT RELAY INSPECTION

### INSPECT DAYTIME RUNNING LIGHT 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
<b>5 – Ground</b>	Light control switch position OFF or TAIL	<b>No continuity</b>
<b>5 – Ground</b>	Light control switch position HEAD	<b>Continuity</b>
<b>7 – Ground</b>	Headlight dimmer switch position Low beam or High beam	<b>No continuity</b>
<b>7 – Ground</b>	Headlight dimmer switch position Flash	<b>Continuity</b>
<b>8 – Ground</b>	Parking brake switch position OFF (Parking brake lever released)	<b>No continuity</b>
<b>8 – Ground</b>	Parking brake switch position ON (Parking brake lever Pulled up)	<b>Continuity</b>
<b>12 – Ground</b>	Constant	<b>Continuity</b>
<b>13 – Ground</b>	Constant	<b>Continuity</b>
<b>16 – Ground</b>	Headlight dimmer switch position Low beam	<b>No continuity</b>
<b>16 – Ground</b>	Headlight dimmer switch position High beam or Flash	<b>Continuity</b>
<b>2 – Ground</b>	Ignition switch position LOCK or ACC	<b>No voltage</b>
<b>2 – Ground</b>	Ignition switch position ON or START	<b>Battery positive voltage</b>
<b>6 – Ground</b>	Constant	<b>Battery positive voltage</b>
<b>11 – Ground</b>	Engine Stop	<b>No voltage</b>
<b>11 – Ground</b>	Engine Running	<b>Battery positive voltage</b>

If circuit is not as specified, perform the inspection on the following page.



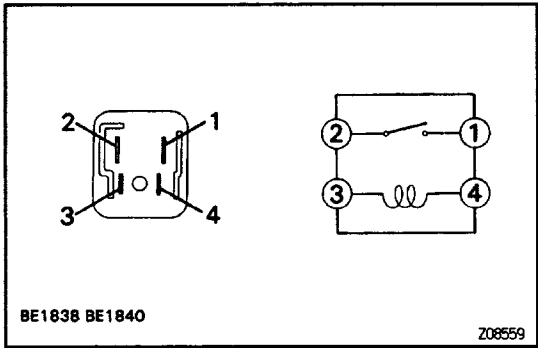
**Connector connected**  
Connect the wire harness side connector to the relay and inspect wire harness side connector from the back side, as shown.

Tester connection to terminal number	Condition	Specified condition
17 – Ground	Headlight dimmer switch position Low beam or High beam	No voltage
17 – Ground	Headlight dimmer switch position Flash	Battery positive voltage

If circuit is not as specified, replace the relay.

PARKING BRAKE SWITCH INSPECTION

See pegs BE-53

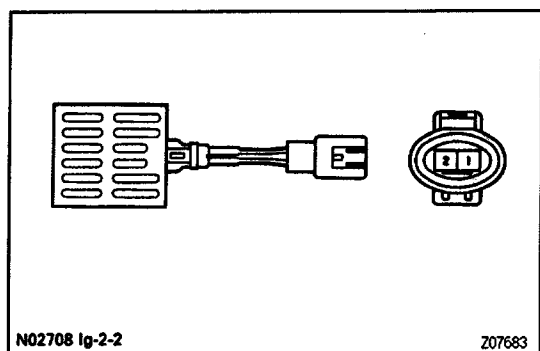


DAYTIME RUNNING LIGHT RELAY  
NO.4 INSPECTION

INSPECT DAYTIME RUNNING LIGHT RELAY NO.4  
CONTINUITY

Condition	Tester connection to terminal number	Specified condition
Constant	3 – 4	Continuity
Apply B+ between terminals 3 and 4.	1 – 2	Continuity

If continuity is not as specified, replace the relay.

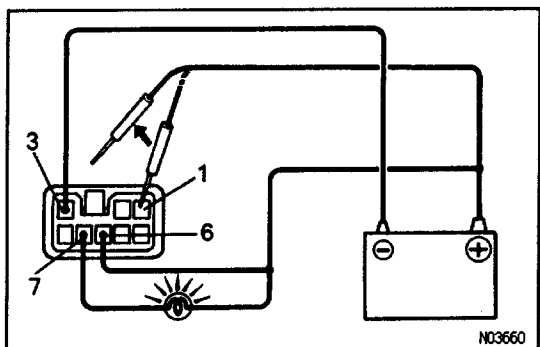


## DAYTIME RESISTOR INSPECTION

### INSPECT DAYTIME RESISTOR CONTINUITY

Condition	Tester connection to terminal number	Specified condition (resistance)
<b>Constant</b>	<b>1 – 2</b>	<b>Approx. 337mΩ</b>

If continuity is not as specified, replace the resistor.

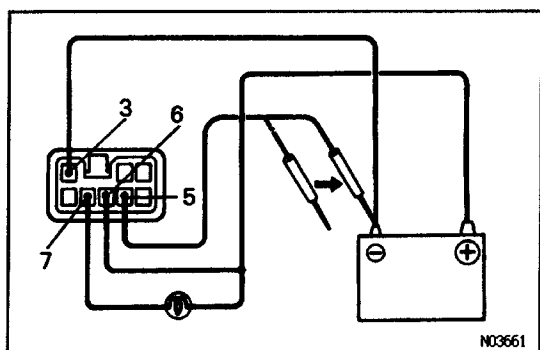


## HEADLIGHT RETAINER RELAY INSPECTION

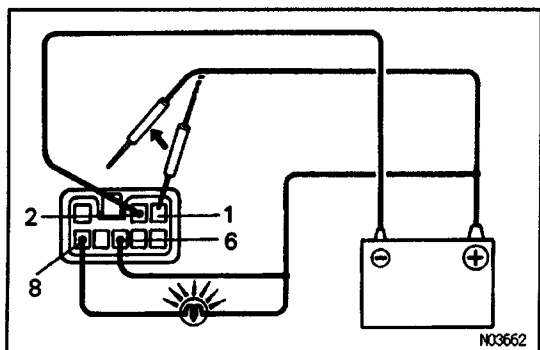
### INSPECT HEADLIGHT RETAINER RELAY OPERATION

#### Headlight Circuit

- Connect the positive (+) leads from the battery to terminals 1 and 6, and the negative (–) lead to terminal 3.
- Connect the 3.4 W test bulb between terminal 7 and the positive (+) lead from the battery.

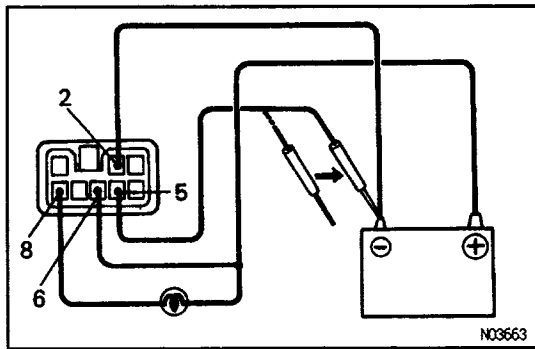


- Disconnect the positive (+) lead from terminal 1, check that the test bulb is lighting.
  - Connect the negative (–) lead to terminal 5, check that the test bulb goes out.
- If operation is not as specified, replace the relay.



#### Taillight Circuit

- Connect the positive (+) leads from the battery to terminals 1 and 6, and the negative (–) lead to terminal 2.
- Connect the 3.4 W test bulb between terminal 8 and the positive (+) lead from the battery.



- (c) Disconnect the positive (+) lead from terminal 1, check that the test bulb is lighting.
  - (d) Connect the negative (-) lead to terminal 5, check that the test bulb goes out.
- If operation is not as specified, replace the relay.