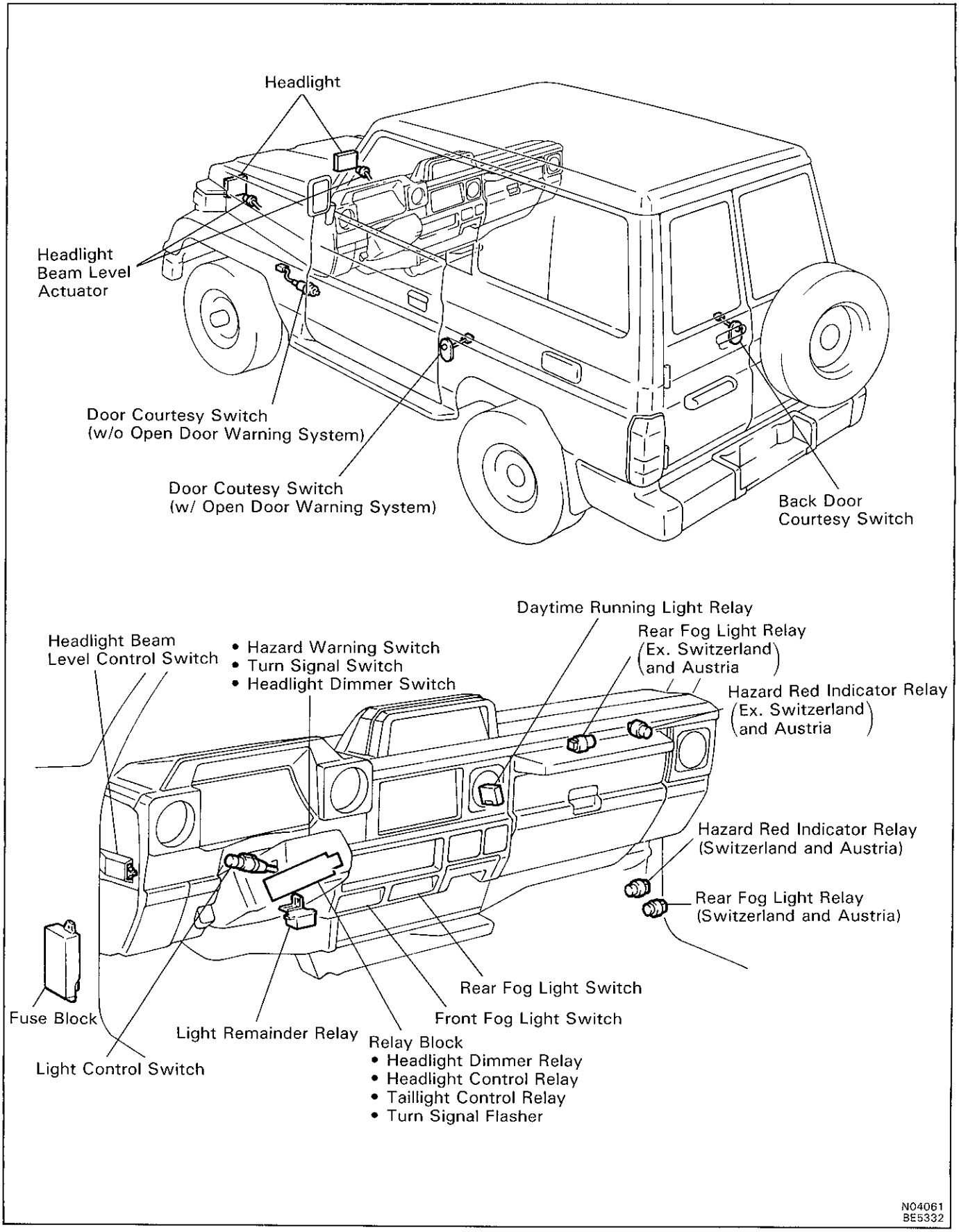
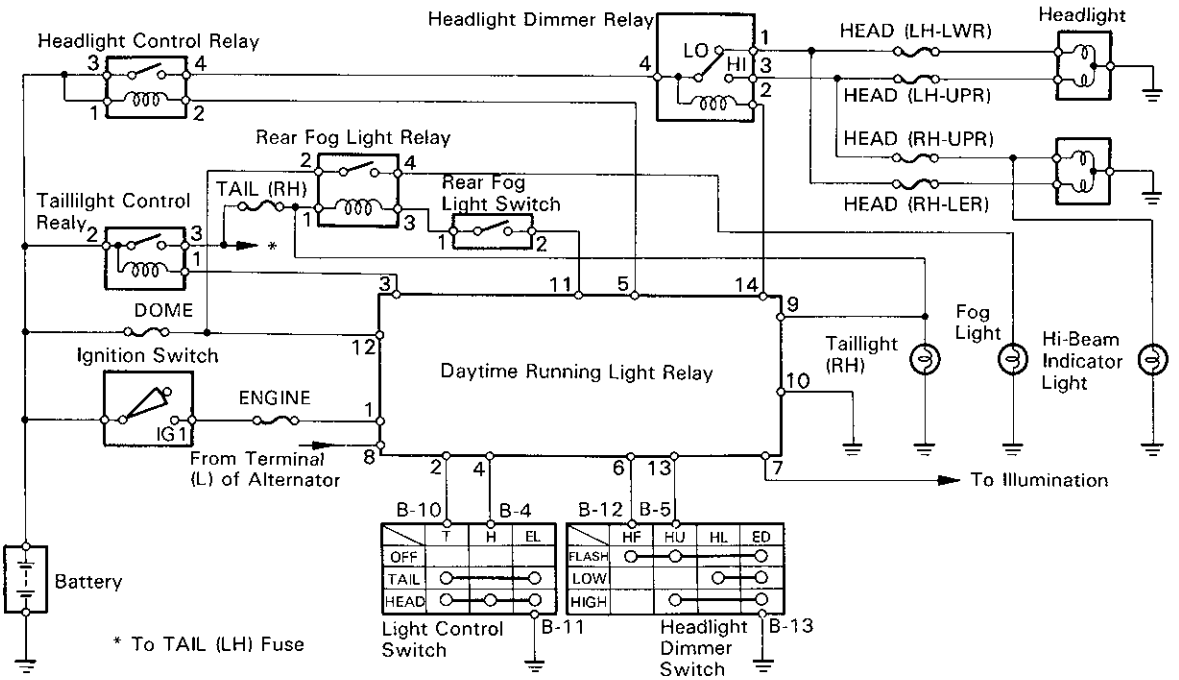
# LIGHTING SYSTEM

## Parts Location




N04061
BE5332

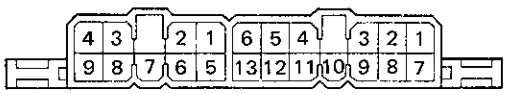
• **w/Daytime Running Light System (with Rear Fog Light System)**



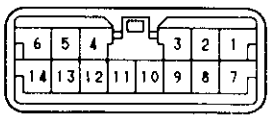

The POWER SOURCE CIRCUIT has been simplified. For full details, see pub.No.RM183E, page BE-10,11,12.

• Light Control Switch
• Dimmer Switch

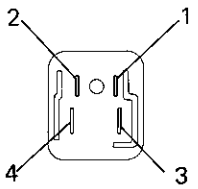
Connector "A" Connector "B"



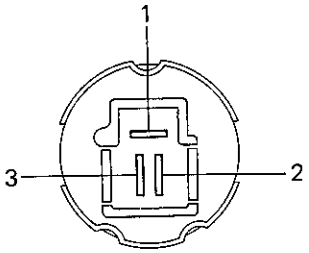

Daytime Running Light Relay



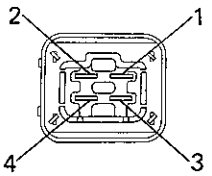

Headlight Control Relay




Taillight Control Relay



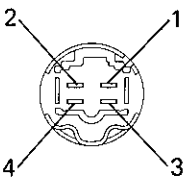

Headlight Dimmer Relay




Rear Fog Light Switch

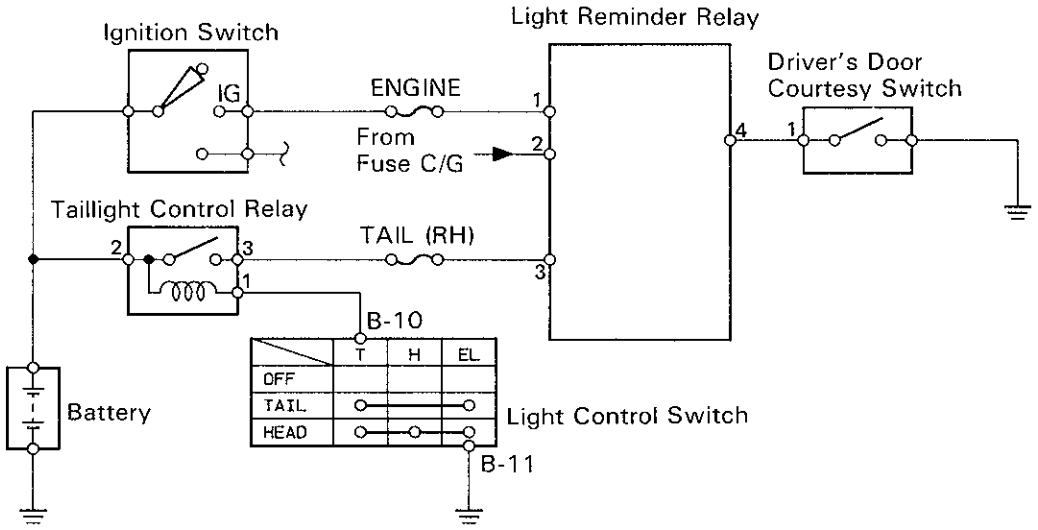



Rear Fog Light Relay

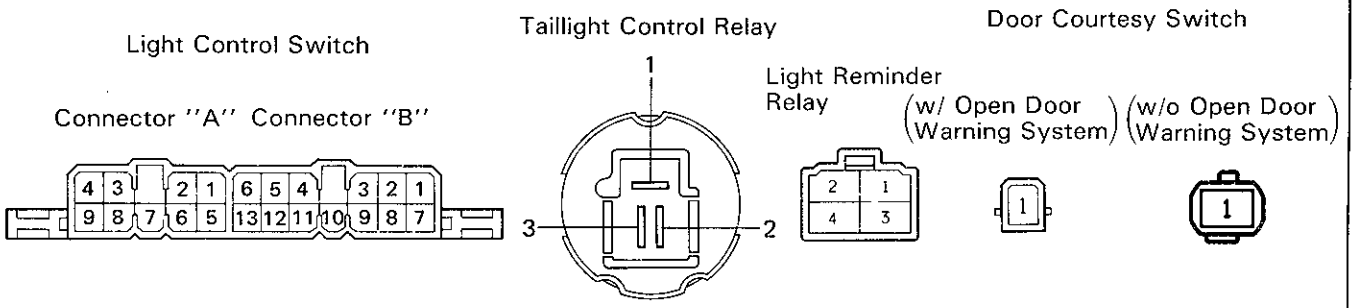



N04062
BE0111 BE4219 BE1838
BE2763 BE1839 S-4-2-C BE1647

## Lights-On Warning System



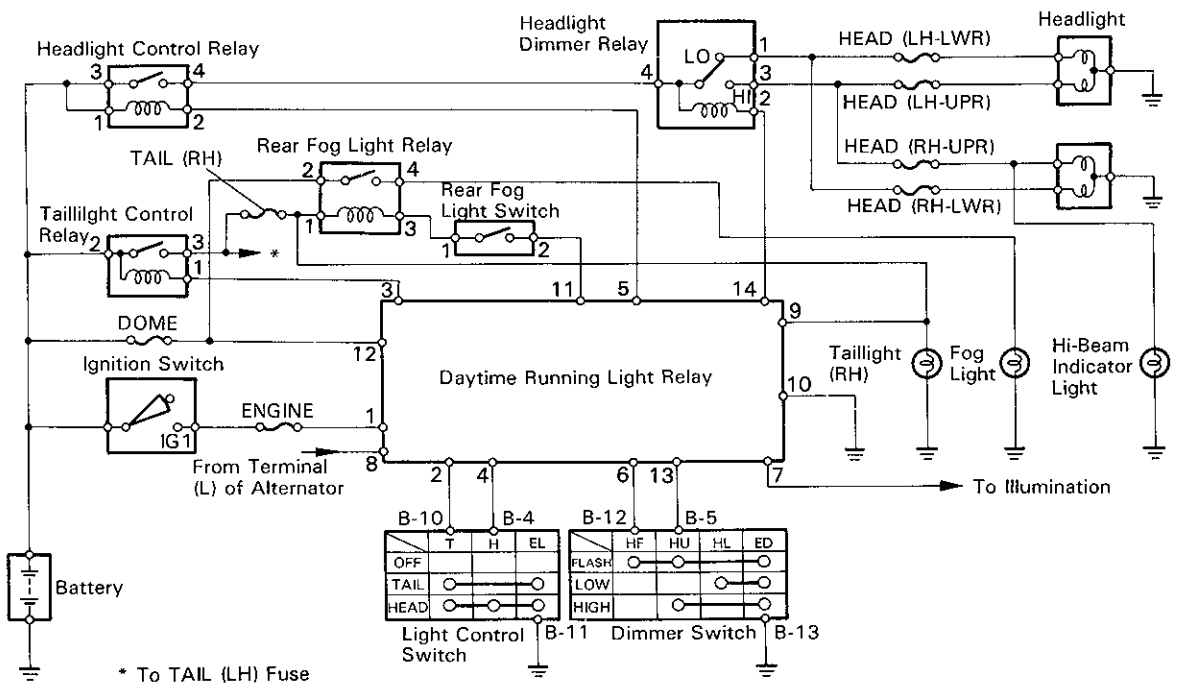

The POWER SOURCE CIRCUIT has been simplified. For full details, see pub.No.RM183E, pages BE-10,11,12.




BE5341
BE0111 BE2763 H-4-2 GA-1-1 S-1-1-B

# System Description

## Daytime Running Light System




The POWER SOURCE CIRCUIT has been simplified. For full details, see pub. No. RM183E pages BE-10, 11, 12.

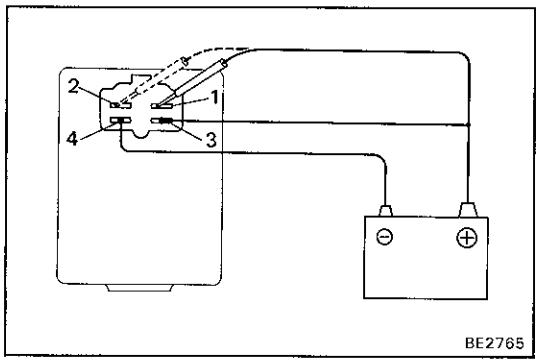
N04062

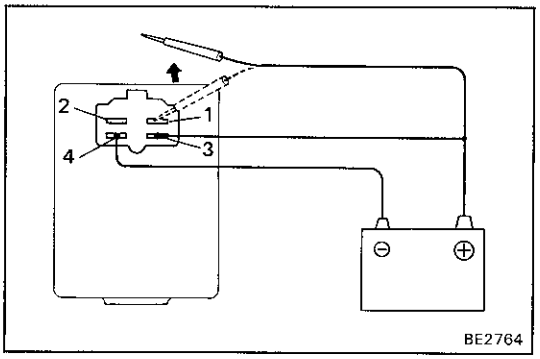
## Standby Operation

- Current flows from the battery to terminal 12 of the Daytime Running Light Relay.
- When the engine is started, alternator voltage is applied from terminal L of the alternator to terminal 8 of the Daytime Running Light Relay.

## Operation

1. **IGNITION SWITCH "ON" AND LIGHT CONTROL SWITCH "OFF"**
   When the switches are set, current flows from the battery to terminal 1 of the Daytime Running Light Relay. Also, because continuity is made between terminal 3 of the Daytime Running Light Relay and ground, and terminal 5 of the Daytime Running Light Relay and ground, the Taillight Control Relay and Headlight Control Relay are turned on. Then the taillights and headlights light up.
   HINT: Because terminal 14 of the Daytime Running Light Relay is not grounded at all times, the Headlight Dimmer Relay is off, so the headlights light up at low beam.
2. **IGNITION SWITCH "ON" AND LIGHT CONTROL SWITCH AT "TAIL"**
   When the switches are set, continuity is made between terminal 2 of the Daytime Running Light Relay and ground. Also, because continuity is made between terminal 3 of the Daytime Running Light Relay and ground at all times, the taillights light up.
   (Fog Light): Also, because continuity is made between terminal 11 of the Daytime Running Light Relay and ground, the Rear Fog Light Relay is turned on. Then the fog lights light up on standby.
3. **IGNITION SWITCH "ON" AND LIGHT CONTROL SWITCH AT "HEAD"**
   When the switches are set, continuity is made between terminal 4 of the Daytime Running Light Relay and ground, and terminal 2 of the Daytime Running Light Relay and ground. Also, because continuity is made between terminal 5 of the Daytime Running Light Relay and ground, and terminal 3 of the Daytime Running Light Relay and ground at all times, the taillights and headlights light up.
   HINT: When the Headlight Dimmer Switch is set to "HIGH", continuity is made between terminal 13 of the Daytime Running Light Relay and ground. Also, because continuity is made between terminal 14 of the Daytime Running Light Relay and ground, the Headlight Dimmer Relay is turned on. Then the headlights go on at high beam.
4. **HEADLIGHT DIMMER SWITCH AT "FLASH"**
   When the switch is set, continuity is made between terminal 6 of the Daytime Running Light Relay and ground, and terminal 13 of the Daytime Running Light Relay and ground. Also, because the continuity is made between terminal 5 of the Daytime Running Light Relay and ground, and terminal 14 of the Daytime Running Light Relay and ground, the headlights flash.




## Lights-On Warning System

### 1. INSPECT LIGHT REMAINDER RELAY

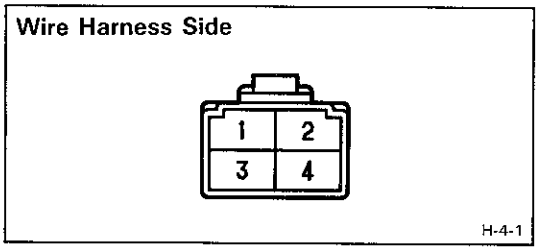
**(Operation)**

(a) Connect the positive (+) lead from the battery to terminal 3 and the negative (−) lead to terminal 4.

(b) Check that the buzzer does not sound when connected terminal 1 or 2 from the positive (+) lead.

(c) Check that the buzzer sounds when disconnecting terminal 1 or 2 from the positive (+) lead.

If operation is not as specified, replace the relay.




**(Relay Circuit)**

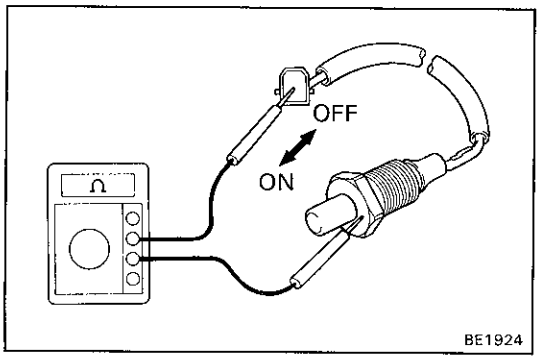
Disconnect the connector from the relay and inspect the connector on the wire harness side as shown in the chart.

| Check for | Tester connection | Condition | | Specified value |
|---|---|---|---|---|
| Continuity | 4 — Ground | Driver's door position | Closed (Courtesy switch OFF) | No continuity |
| | | | Opened (Courtesy switch ON) | Continuity |
| Voltage | 1 — Ground | Ignition switch position | LOCK or ACC | No voltage |
| | | | ON | Battery voltage |
| | 2 — Ground | Ignition switch position | LOCK | No voltage |
| | | | ON or ACC | Battery voltage |
| | 3 — Ground | Light control switch | OFF | No voltage |
| | | | TAIL or HEAD | Battery voltage |

If circuit is as specified, replace the relay.

### 2. INSPECT DRIVER'S DOOR COURTESY SWITCH

**(w/o Open Door Warning System)**




(a) Check that there is continuity between terminal and the switch body with the switch ON (switch pin released).

(b) Check that there is no continuity between terminal and the switch body with the switch OFF (switch pin pushed in).

If operation is not as specified, replace the switch.

**(w/ Open Door Warning System)**

See pub.No. RM183E, Open Door Warning System on page BE-65.