

FUNCTION

The headlight switch has three positions. Rotate the switch to operate it.  
 "OFF" — All lights are off.

"1" — Taillights, license plate lights, instrument cluster lights, identification lights, and clearance lights.  
 "2" — Headlights are on, plus all lights from "1".

With the headlight switch set at "2" and the left-hand lever in the center position, the headlights are at low beam. Pull the multi-function lever toward you to engage high beam. An indicator, located in the instrument panel lights when the high beam is being used.

With the headlights on, you can repeatedly turn on and off the high beams to signal your intention to pass. Even if the headlights are off, pulling the switch up will momentarily turn on the high beams to signal your intention to pass.

TROUBLESHOOTING

1. Both side headlights (high and low beam) do not light

Checkpoint	Trouble Cause	Countermeasure
Fuse No.14 and No.15	NG Poor fuse contact or blown	Reinstall or replace the fuse No.14 and/or No.15
OK		
Fusible link wire	NG Poor fusible link wire contact or blown	Reinstall or replace the fusible link wire
OK		
Headlight relay	NG Poor relay contact or faulty	Reinstall or replace the headlight relay
OK		
Lighting sw. continuity between connector 2 [B25] - 3 [B25] at "2" position	NG Poor sw. point contact or connector contact	Repair or replace the lighting sw. and/or connector
OK		
Dimmer sw. continuity between connector 11 [B25] - 3 [B25] (High) while sw. is operating.	NG Poor sw. point contact or connector contact	Repair or replace the dimmer sw. and/or connector

Continued on the next page.

Checkpoint

Trouble Cause

Countermeasure

Continued from the previous page.

Wire continuity between connector 2 [B25] - 2 [B59] and 3 [B25] - ground	NG Poor connector contact	Repair or replace the dimmer sw. and/or connector
OK		
Headlight connector continuity	NG Blown filament	Replace the headlight assembly

2. Both side of high or low beam does not light

Dimmer sw. wiring continuity between ground point -11 [B25] , 5 [B61]	NG Poor dimmer sw. point contact, faulty or poor connector contact	Repair or replace the dimmer sw.
OK		
Dimmer relay continuity between 3 [B61] -ground (High), or 2 [B61] -ground (Low)	NG Open circuit and/or poor ground point contact	Repair or replace the dimmer relay and or ground point

3. RH (or LH) of high and low beam does not light

Fuse No.14 or No.15	NG Poor install or blown	Reinstall or replace the fuse No.14 or No.15
OK		
Headlight connector continuity	NG Blown filament or air leakage	Replace the headlight assembly
OK		
Wiring continuity between connector 2 [B42] and 2 [B44] fuse No.14 or 2 [B45] and 2 [B48] fuse No.15	NG Open circuit and/or poor connector contact	Repair or replace the wire and/or connector

4. One side of high or low beam does not light

Checkpoint		Trouble Cause	Countermeasure
Headlight connector continuity	NG	Blown filament	Replace the headlight assembly
OK			
Wiring continuity between headlight connector and ground	NG	Open circuit between connector and fuse No.14 or No.15 or poor connector contact	Repair open circuit or connector contact

5. Headlight does not go out

Headlight relay continuity between connector 3 [B59] - 4 [B59] (Should be no continuity)	NG	Relay point fused	Replace the headlight relay
OK			
Lighting sw. continuity between connector 3 [B25] - 2 [B25] when sw. is OFF (Should be no continuity)	NG	Switch point fused or faulty	Replace the lighting sw.
OK			
Dimmer sw. continuity between connector 2 [B25] - 3 [B25] when sw. is not operating	NG	Poor sw. point contact	Repair or replace the dimmer sw.

6. Insufficient head light brightness

Checkpoint		Trouble Cause	Countermeasure
Light lens	NG	Lens stained	Clean the light lens
OK			
Headlight beam sw. wire continuity between connector 3 [B25] -ground	NG	Poor ground point contact	Repair

7. Passing light does not function when dimmer sw. is operated

Dimmer	NG	Poor sw point contact	Repair or replace the dimmer sw.
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8. Headlight beam does not change when headlight beam sw. is operated

Headlight beam sw.	NG	Loose beam lever function or foreign material in sw.	Repair or replace the headlight beam sw.
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ON-VEHICLE SERVICE

Lighting Switch, and Dimmer Switch



Remove or Disconnect

Refer to "STARTING • ENGINE STOP" of "SYSTEM REPAIR" for combination switch removal procedure.

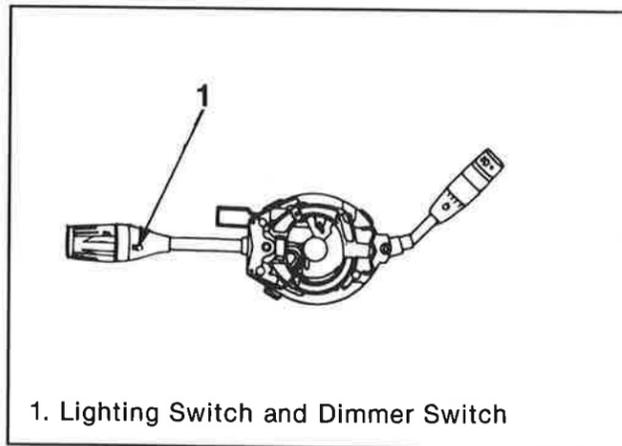


Inspect

1. Check the switches continuity by following table.

SW Position		Terminal No.	③	①	②	①①	③
Lighting	OFF		○				
	Step-1		○	○			
	Step-2		○	○	○		
Dimmer	Low beam						○
	High beam					○	○
	Passing				○	○	○

2. Check the switch for smooth operation.
3. Check the high beam indicator light for turned on when dimmer switch turn to high position.
4. Check the high beam indicator light turned on when dimmer switch move to passing position.



1. Lighting Switch and Dimmer Switch

Figure 84. Lighting Switch and Dimmer Switch



Install or Connect

Refer to "STARTING • ENGINE STOP" of "SYSTEM REPAIR" for combination switch installation procedure.

Headlight Relay



Inspect (Figure 85)

Check continuity between terminals.

Terminal No.		①	②	③	④
Condition					
Resistance approx. 80Ω		○	○		
Continuity when applying battery voltage between ① and ②					○

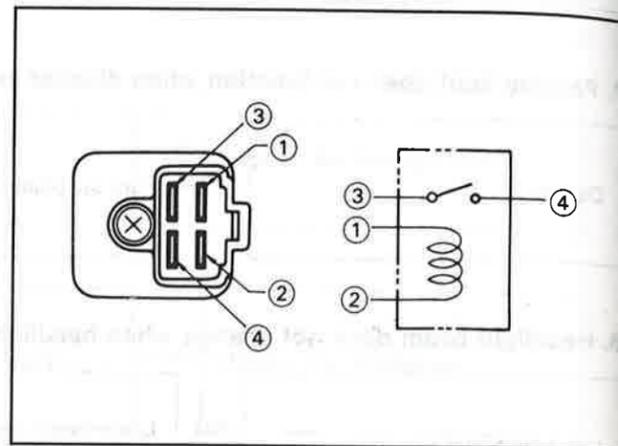


Figure 85. Headlight Relay

Dimmer Relay



Inspect (Figure 86)

Check continuity between terminals.

Terminal No.		①	②	③	④	⑤
Condition						
Continuity		○	○			
Resistance approx. 80Ω					○	○
Continuity when applying battery voltage between ④ and ⑤		○	○			

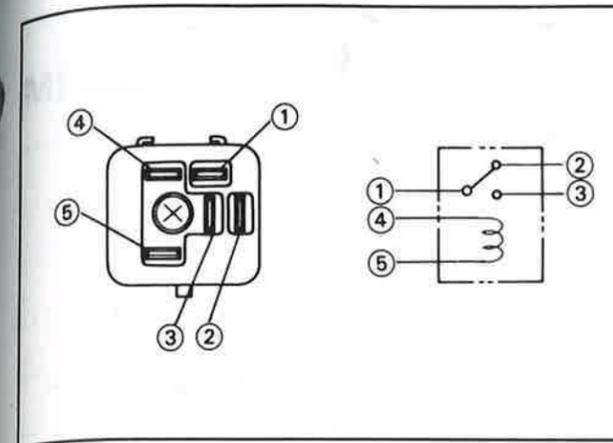


Figure 86. Dimmer Relay

Headlights



Remove or Disconnect

1. Remove the radiator grille screws (2) and the clips (3) (figure 87).
2. Use a screw driver to release the three tang lock for upper side and two tang lock for lower side of the radiator grille.
3. Remove the radiator grille.
4. Remove the side radiator grille.
5. Remove the headlight rim (4) (figure 88).
6. Disconnect the connector (figure 89).
7. Remove the headlight.

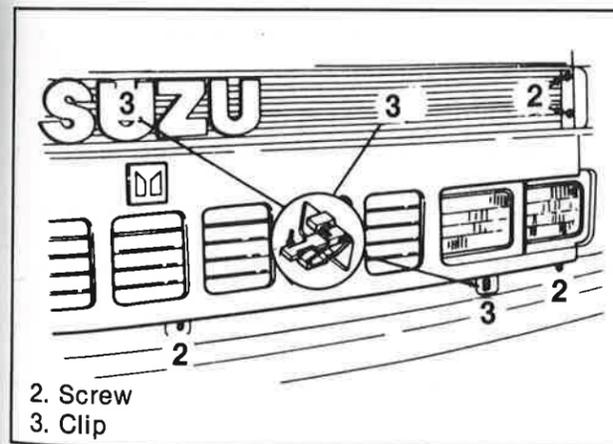
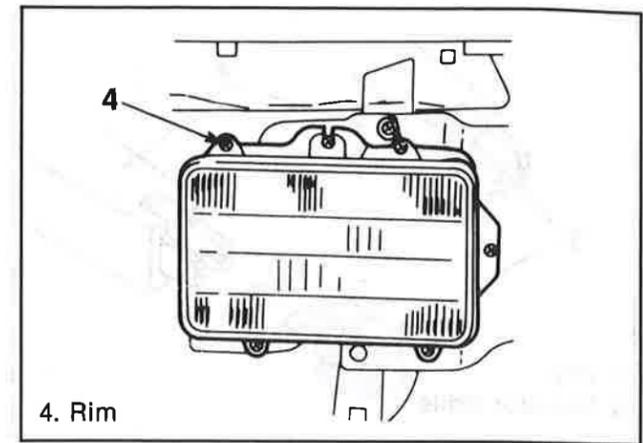


Figure 87. Radiator Grill Removal



4. Rim

Figure 88. Headlight Rim Removal

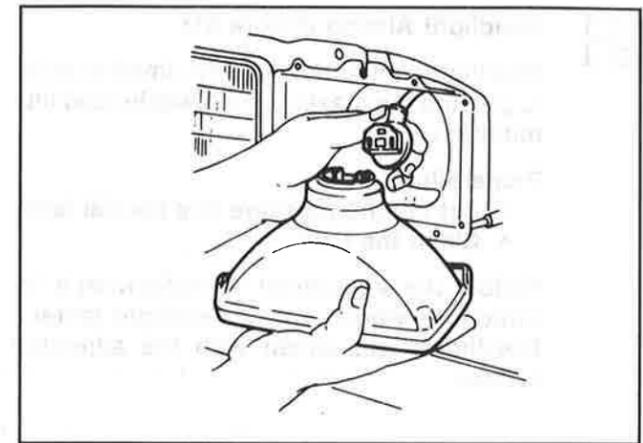


Figure 89. Disconnect The Connector



Install or Connect

Follow the removal procedure in the reverse order to install the headlight.



Pay close attention to the important points mentioned in the following paragraphs.

1. Before attaching the radiator grille, be sure to attach clip (3) to radiator grille (5) (figure 90).
2. After the headlight is attached, adjust aiming.

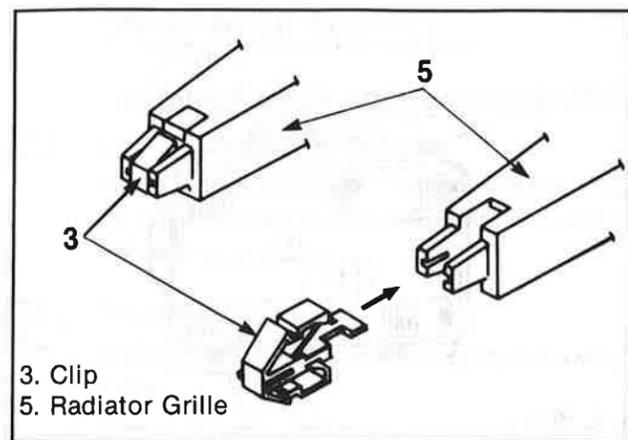


Figure 90. Radiator Grille Installation

**Headlight Aiming (Figure 91)**

Headlights must be properly aimed in order to provide the maximum allowable road illumination.

**Preparation**

- Set the tire pressure to a normal level.
- Clean the lens.

Follow the equipment manufacturer's instructions when using a headlight tester. Headlights are aimed with the adjusting screws.

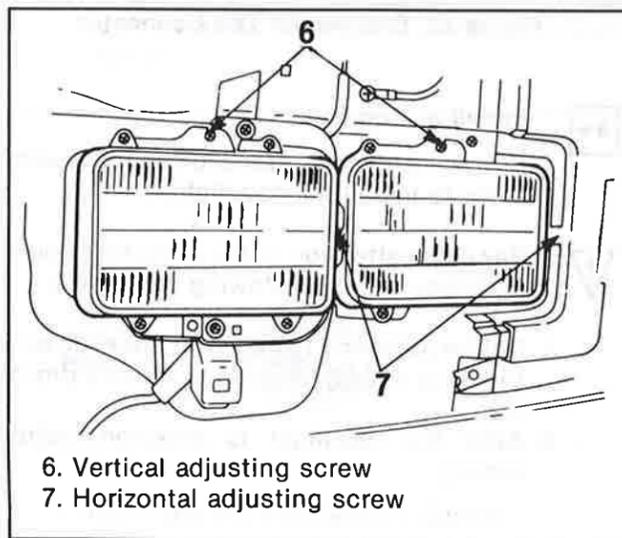


Figure 91. Headlight Aiming

MEMO

FRONT COMBINATION LIGHT, REAR COMBINATION LIGHT, LICENSE PLATE LIGHT

CIRCUIT DIAGRAM

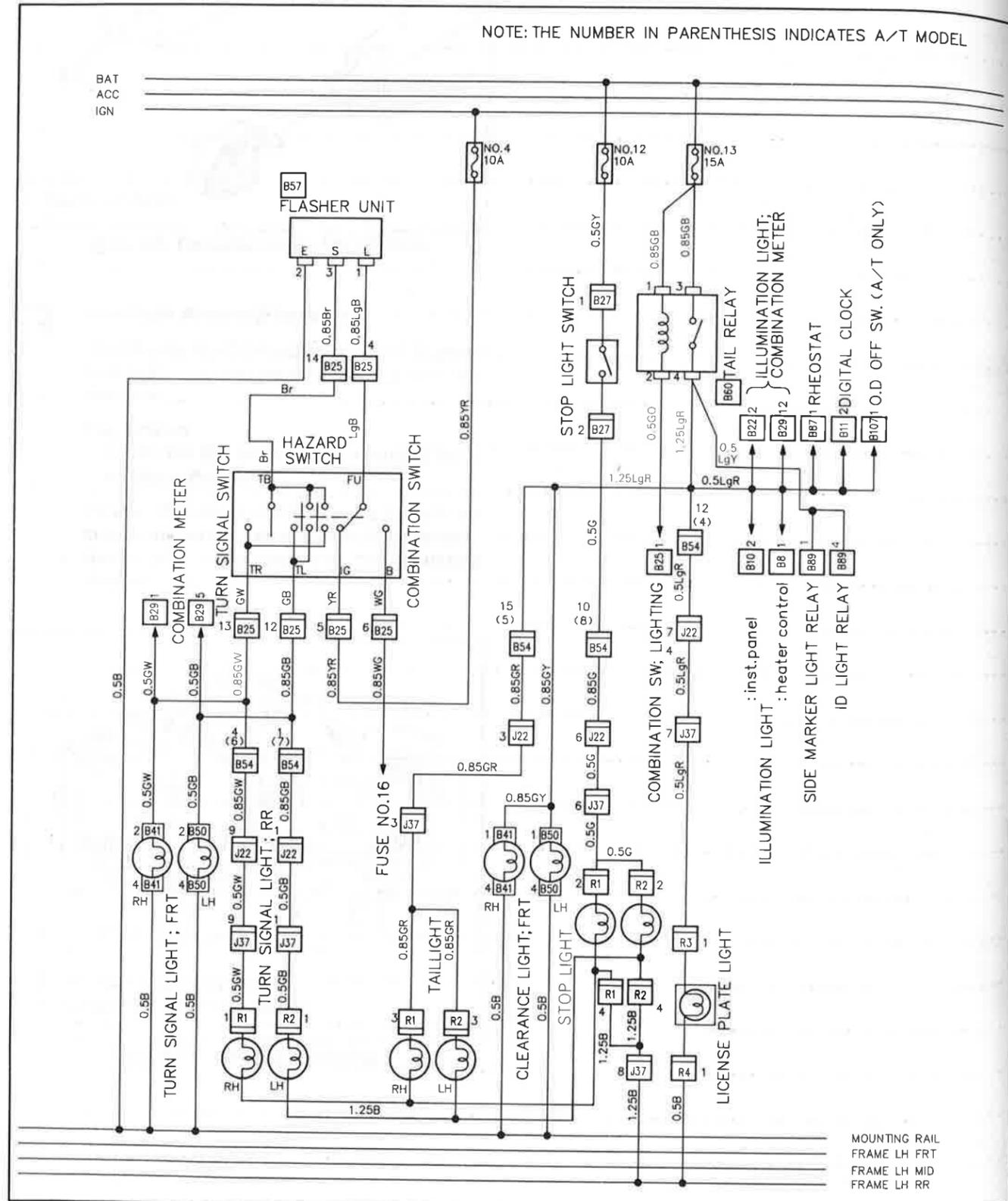


Figure 92. Circuit Diagram

PARTS LOCATION

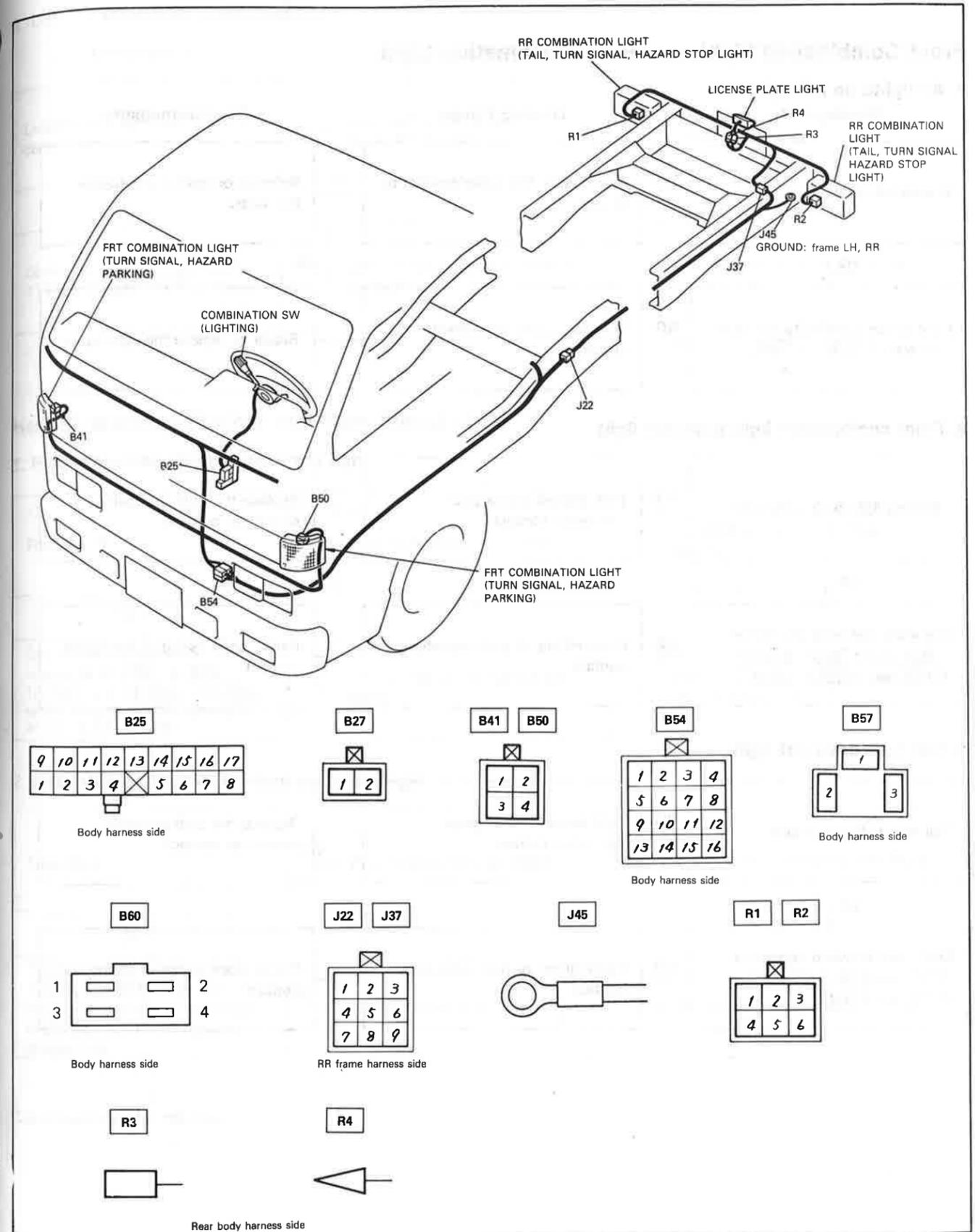


Figure 93. Parts Location

TROUBLESHOOTING

Front Combination Light, and Rear Combination Light

1. All lights do not light

Checkpoint	Trouble Cause	Countermeasure
Fusible link wires OK	Poor fusible link wires contact or blown	Reinstall or replace the fusible link wires
Lighting sw. continuity between connector 1 [B25] - 3 [B25]	Poor sw. point or connector contact	Repair or replace the lighting sw.

2. Front combination light does not light

Parking light bulb continuity OK	Bulb burned out or poor connector contact	Replace the bulb or repair connector contact
Continuity between connector 1 [B41] and 1 [B50] - 5 [B54], 4 [B41] and 4 [B50] - ground	Open circuit or poor connector contact	Repair open circuit or connector contact

3. Tail light does not light

Tail light bulb continuity OK	Bulb burned out or poor connector contact	Replace the bulb or repair connector contact
Continuity between connector 3 [R1] and 3 [R2] - 3 [J37], 4 [R1] and 4 [R2] - ground	Open circuit or poor connector contact	Repair open circuit or connector contact

License Plate Light

1. License plate light does not light

Checkpoint	Trouble cause	Countermeasure
License plate light bulb continuity OK	Bulb burned out or poor connector contact	Replace the bulb or repair connector contact
Continuity between connector 1 [R3] - 7 [J37] 1 [R4] - ground	Open circuit or poor connector contact	Repair open circuit or connector contact

Hazard Warning Flasher and Turn Signal Light

1. Hazard warning flasher does not light

Fuse No.16 OK	Poor fuse contact or blown	Reinstall or replace the fuse No.16
Sw. continuity between connector 4 [B25] - 6 [B25], 12 [B25] and 13 [B25] - 14 [B25] when disconnect the connector at sw. is ON position	Turn signal sw. or hazard sw. faulty	Repair or replace the turn signal sw. or hazard sw.

2. Both side of turn signal light does not light

Fuse No.4 OK	Poor fuse contact or blown	Reinstall or replace the fuse No.4
Short circuit between connector 1 [B57] - 3 [B57] when turn signal sw. operate at starter sw. is ON position (Turn signal light should ON)	Faulty flasher unit	Replace the flasher unit

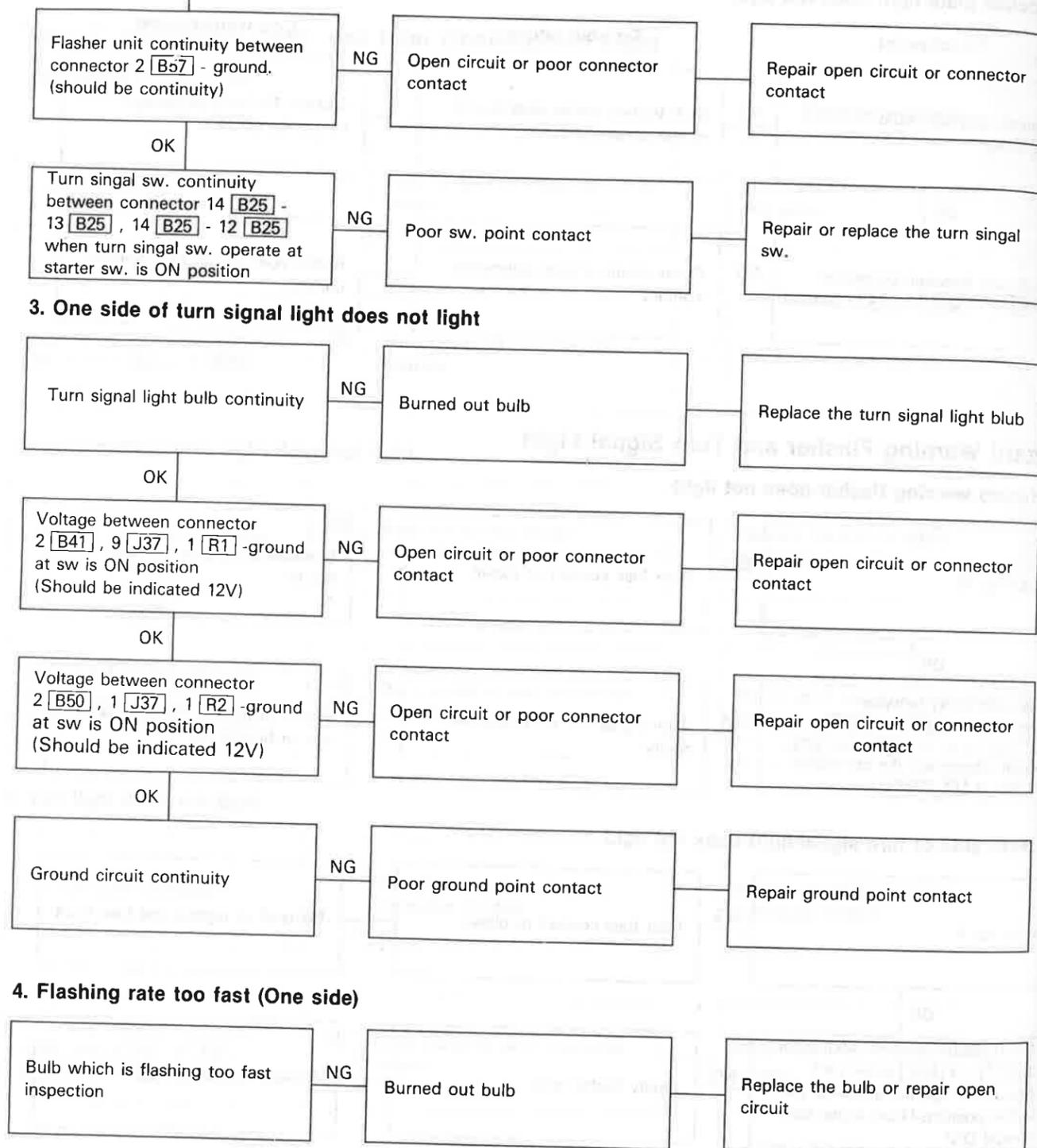
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Checkpoint

Trouble Cause

Countermeasure

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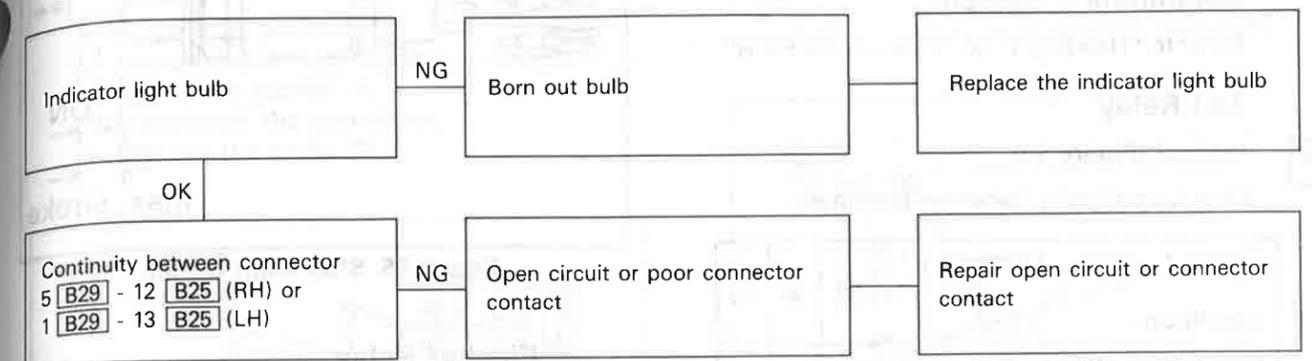


5. Turn signal indicator light does not light

Checkpoint

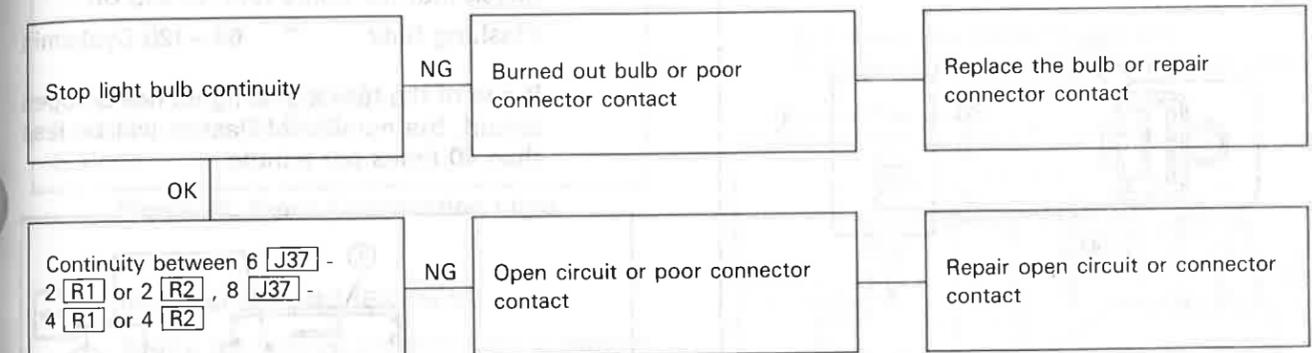
Trouble Cause

Countermeasure

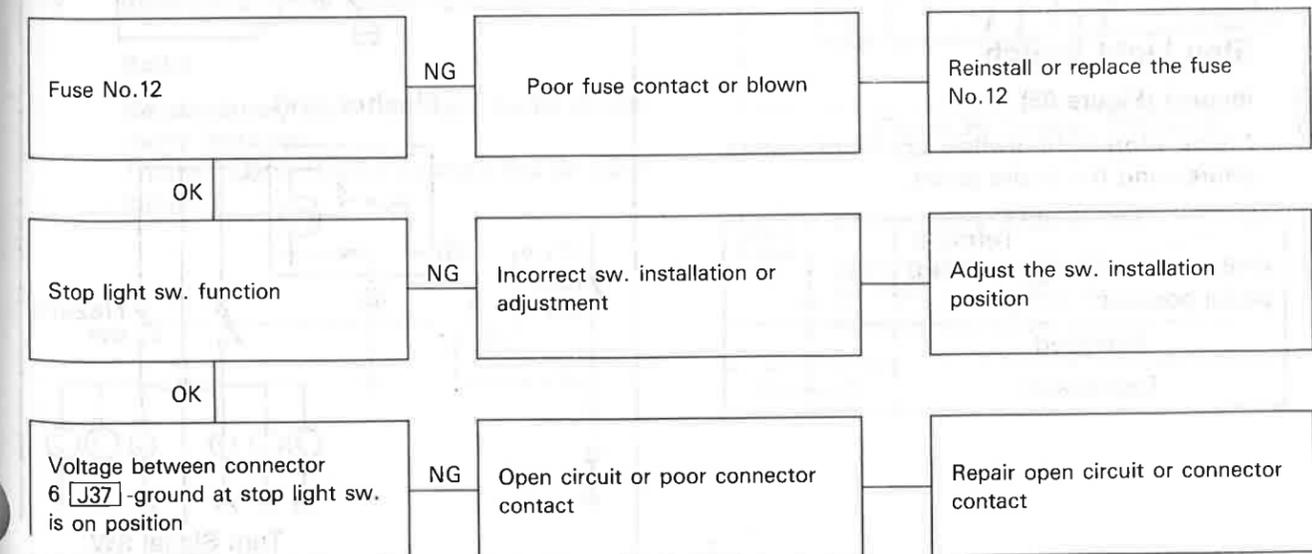


Stop Light

1. One side of stop light does not light



2. Both sides of stop lights do not light



ON-VEHICLE SERVICE

Combination Switch

Refer to "Headlight" of "SYSTEM REPAIR".

Tail Relay

Inspect (Figure 94)

Check continuity between terminals.

Terminal No.	①	②	③	④
Condition				
Resistance approx. 80Ω	○	○		
Continuity when applying battery voltage between ① and ②			○	○

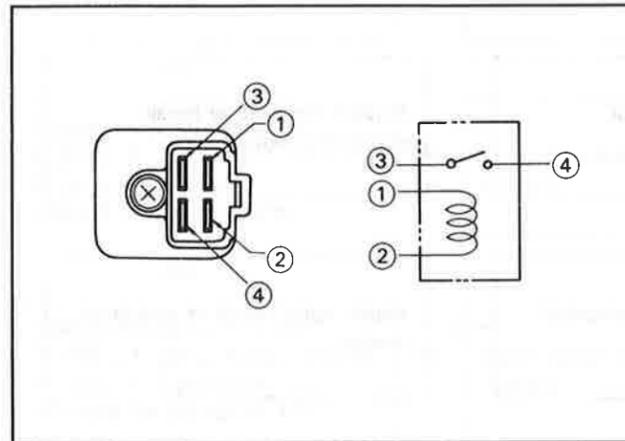


Figure 94. Tail Relay

Stop Light Switch

Inspect (Figure 95)

Check stop light switch continuity when depressing the brake pedal.

Brake pedal position	Terminal No.	①	②
Released			
Depressed		○	○

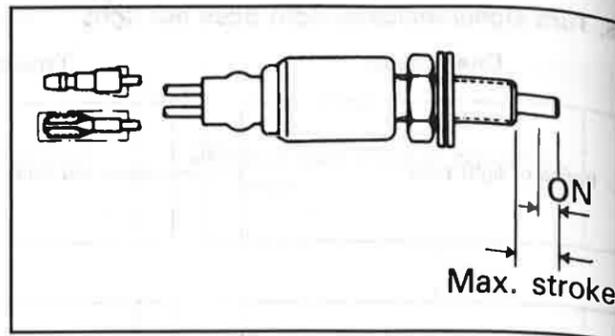


Figure 95. Stop Light Switch

Flasher Relay

Inspect (Figure 96)

- Connect the ⊕ lead from the battery to terminal (B) and ⊖ lead to terminal (E).
- Connect the two turn signal light bulbs parallel to each other to terminals (L) and (E), check that the bulbs turn on and off.

Flashing Rate 60—120 Cycle/min

If one of the turn signal lights has an open circuit, the number of flashes will be less than 40 times per minute.

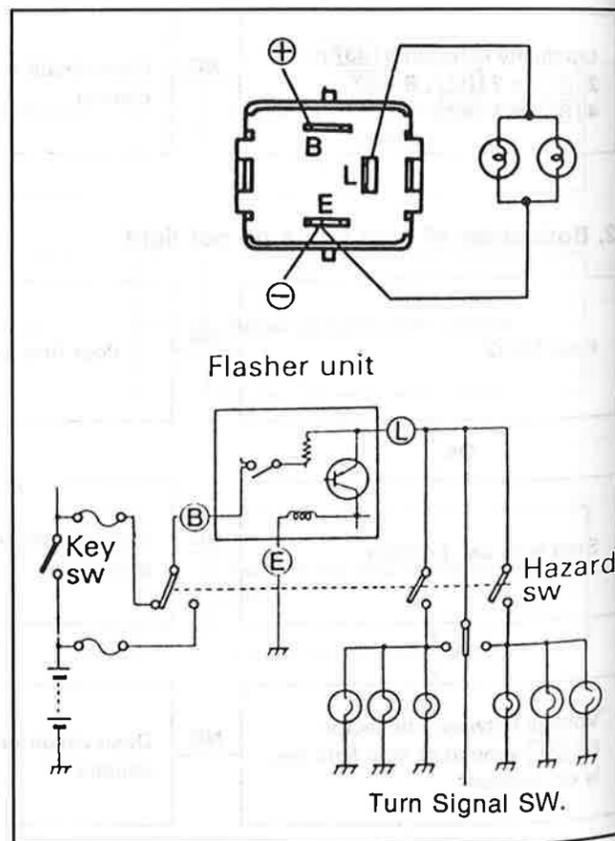


Figure 96. Flasher Relay

Front Combination Light

Remove or Disconnect (Figure 97)

1. Loosen the Screws (1).
2. Remove the lens (2) together with light body (3) and the gasket (4).
3. Disconnect the connector.
4. Remove the bulbs (5).

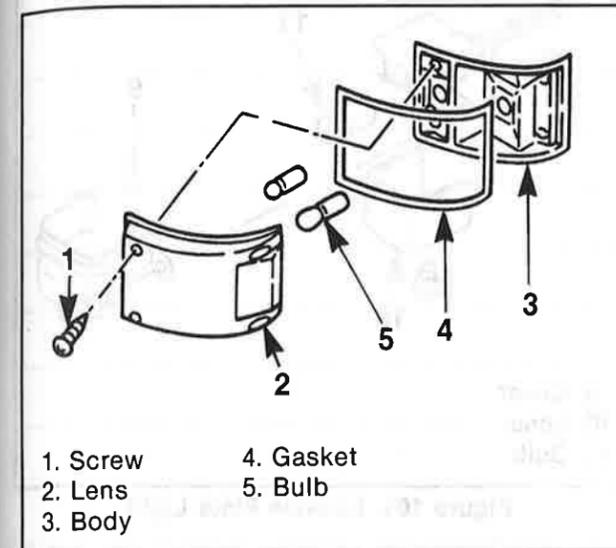


Figure 97. Front Combination Light

Install or Connect (Figure 97)

Follow the removal procedure in the reverse order to install the front combination light.

Pay close attention to the important points mentioned in the following paragraphs.

Bulbs

Be absolutely sure that each bulbs is correctly installed. This will prevent poor contact and an open circuit.

Rear Combination Light Assembly

Remove or Disconnect (Figures 98 and 99)

1. Disconnect the connector (figure 98).

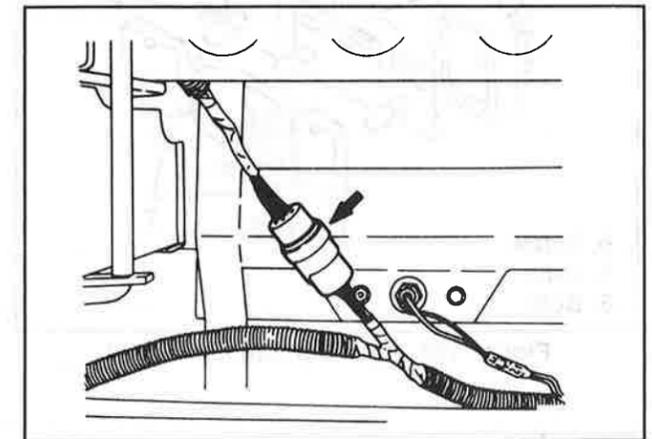


Figure 98. Disconnect The Connector

2. Loosen the bolts (figure 99).
3. Remove the combination light assembly.

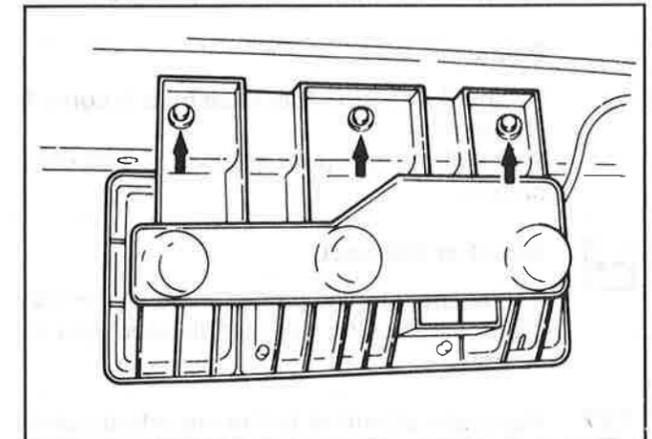


Figure 99. Loosen The Bolts

Disassembly (Figure 100)

1. Loosen the screws (6).
2. Remove the lenses (7).
3. Remove the bulbs (8).

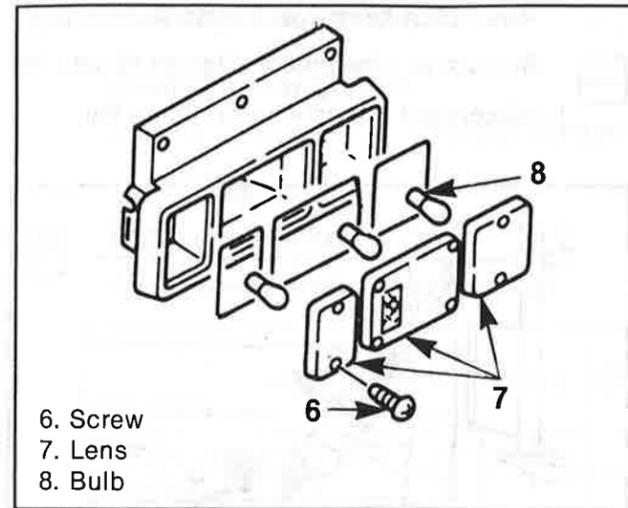


Figure 100. Rear Combination Light



**Reassembly (Figure 100)**

Follow the removal procedure in the reverse order to assemble the rear combination light.



Pay close attention to the important points mentioned in the following paragraphs.

**Bulbs**

Be absolutely sure that each bulb is correctly installed. This will prevent poor contact and an open circuit.



**Install or Connect**

Follow the removal procedure in the reverse order to install the rear combination light assembly.



Pay close attention to the important points mentioned in the following paragraphs.

**Connector**

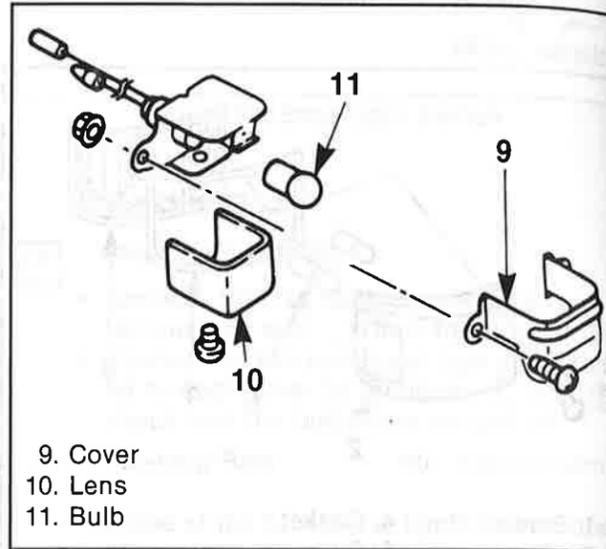
Be absolutely sure that the turn signal and headlight beam switch connector is securely connected. This will prevent poor contact and an open circuit.

**License Plate Light**



**Remove or Disconnect (Figure 101)**

1. Remove the light cover (9).
2. Remove the lens (10).
3. Remove the Bulb (11):



- 9. Cover
- 10. Lens
- 11. Bulb

Figure 101. License Plate Light



**Installation**

Follow the removal procedure in the reverse order to install the license plate light.



Pay close attention to the important points mentioned in the following paragraphs.

**Bulbs**

Be absolutely sure that bulbs is correctly installed. This will prevent poor contact and an open circuit.

**MEMO**

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BACK UP LIGHT. ID LIGHT. SIDE MARKET LIGHT. REAR BODY LIGHT

PARTS LOCATION

CIRCUIT DIAGRAM

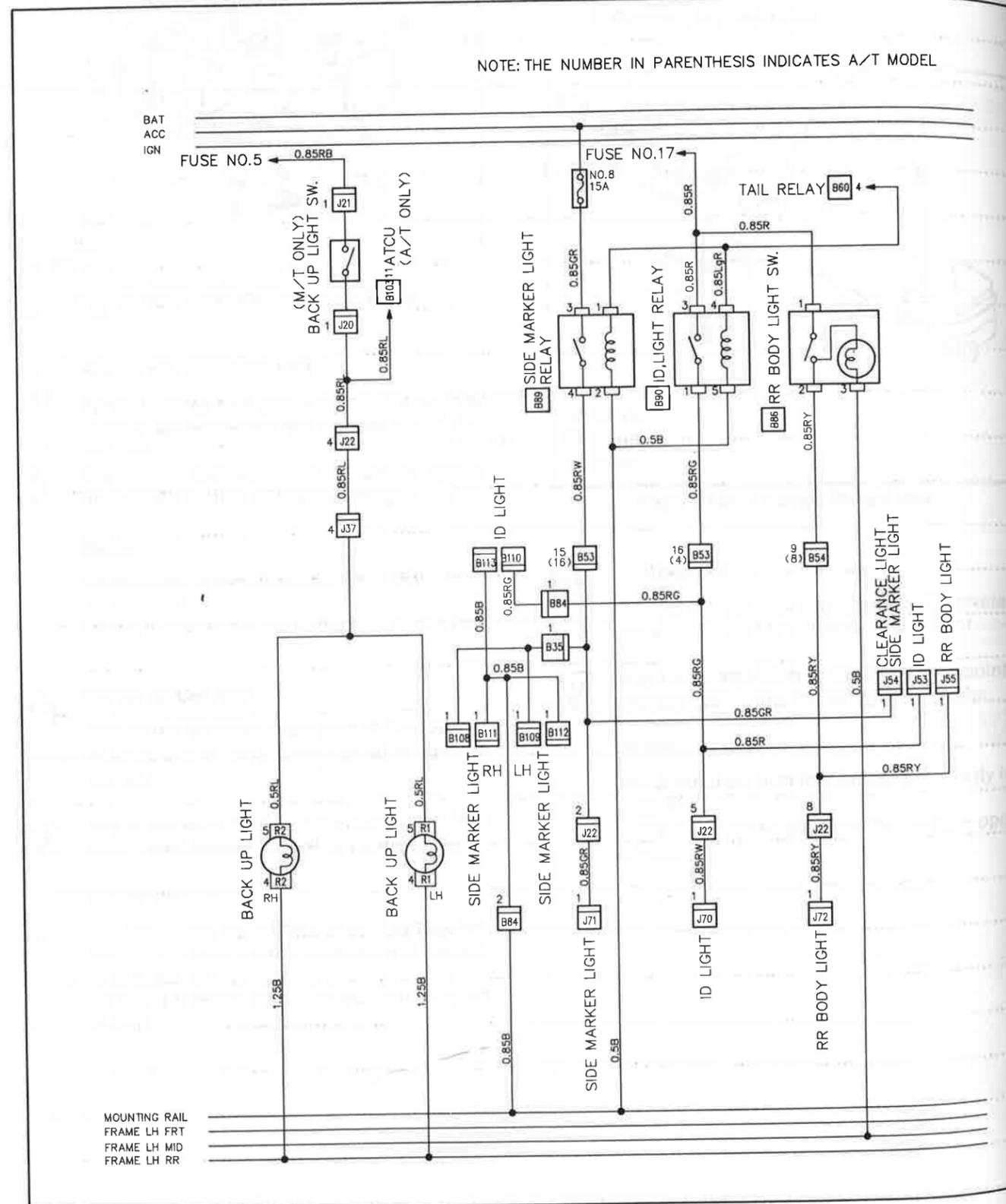


Figure 102. Circuit Diagram

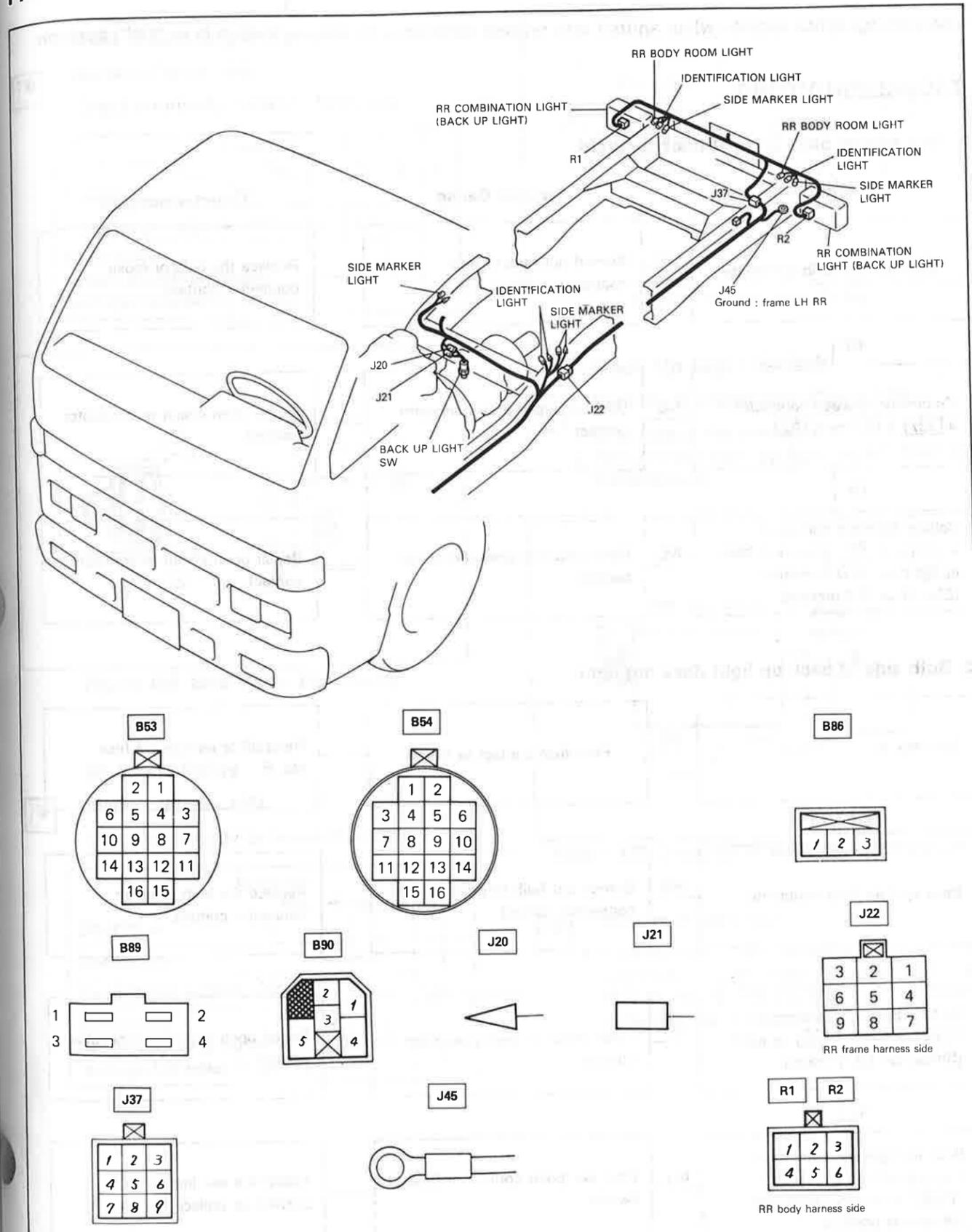


Figure 103. Parts Location