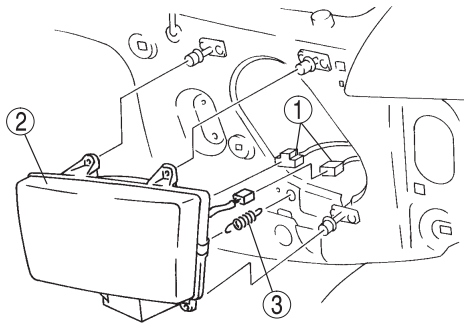


EXTERIOR LIGHTING SYSTEM

FRONT COMBINATION LIGHT REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the radiator grille. (Refer to section S, EXTERIOR ATTACHMENT, RADIATOR GRILLE REMOVAL/INSTALLATION.)
3. Remove the front turn light. (Refer to FRONT TURN LIGHT REMOVAL/INSTALLATION.)
4. Remove in the order indicated in the table.
5. Install in the reverse order of removal.
6. Adjust the headlight aiming. (Refer to HEADLIGHT AIMING.)



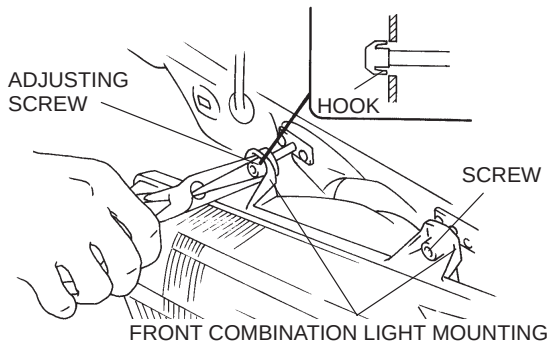
1	Front combination light connector
2	Front combination light + Removal Note
3	Spring

Front Combination Light Removal Note Removal with pliers

Caution

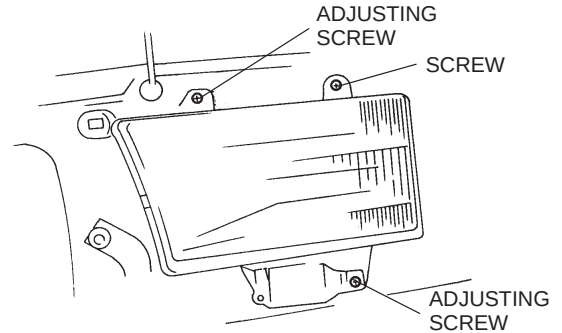
- When pressing the hook of the adjusting screws and the screw with the pliers, do not damage the front combination light mounting.

1. Press the hook of the adjusting screws and the screw with the pliers.
2. Pull the front combination light out of the adjusting screws and the screw.



If it is difficult to remove front combination light with pliers

- Remove the adjusting screws and the screw by loosening them.



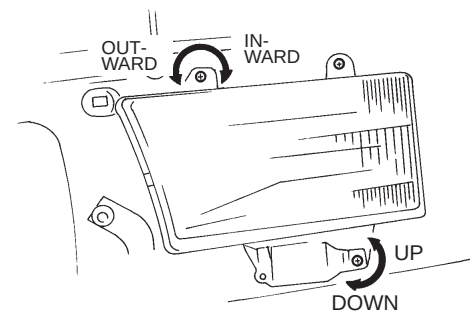
HEADLIGHT AIMING

1. Adjust the tire air pressure to the specification.
2. Position the unloaded vehicle on a level surface.
3. Seat one person in the driver's seat.
4. Start the engine and charge the battery fully.
5. Position the vehicle straight ahead and perpendicularly to a wall.
6. Set the headlights 7.6 m {25 ft} from the wall.
7. While adjusting one headlight, disconnect the connector of the other.

Caution

- Always tighten the adjusting screws last. When loosening the adjusting screws, loosen the screws first and then tighten them. If the adjusting screws are tightened first, then loosened, they will continue to loosen when the vehicle is in motion and may cause the headlights to become misaligned.

8. Adjust the headlights by turning the adjusting screws as shown in the figure. Loosen the screws first, then tighten them.



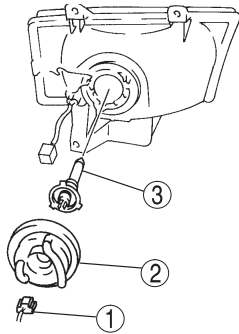
HEADLIGHT BULB REMOVAL/INSTALLATION

Caution

- A halogen bulb generates extremely high heat when it is used. If the surface of the bulb is soiled, excessive heat will build up and the light's life will be shortened. When replacing the bulb, hold the metal flange, not the glass.

EXTERIOR LIGHTING SYSTEM

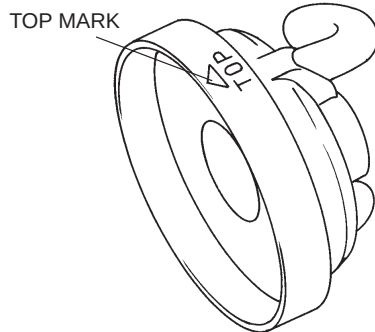
1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



1	Headlight bulb connector
2	Cover + Installation Note
3	Headlight bulb

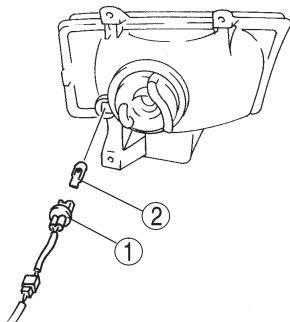
Cover Installation Note

- Align the TOP mark with top side.



PARKING LIGHT BULB REMOVAL/INSTALLATION

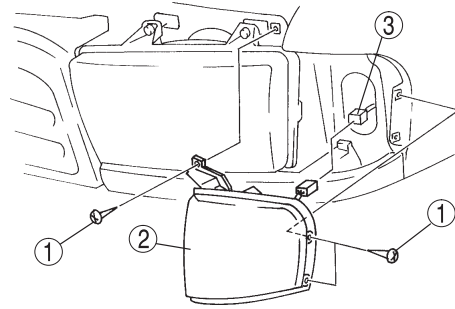
1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



1	Socket
2	Parking light bulb

FRONT TURN LIGHT REMOVAL/INSTALLATION

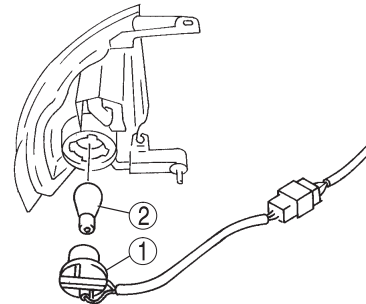
1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



1	Screw
2	Front turn light
3	Front turn light connector

FRONT TURN LIGHT BULB REMOVAL/INSTALLATION

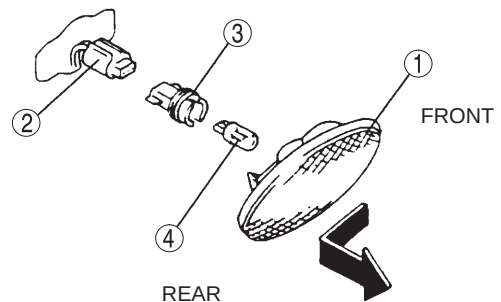
1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



1	Socket
2	Front turn light bulb

FRONT SIDE TURN LIGHT REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.

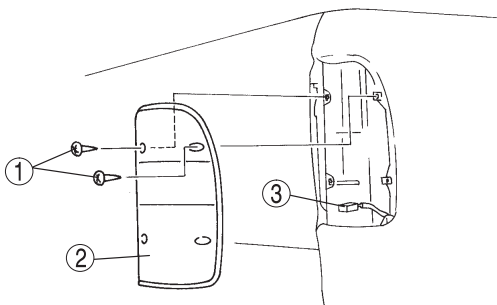


1	Front side turn light
2	Front side turn light connector
3	Socket
4	Front side turn light bulb

EXTERIOR LIGHTING SYSTEM

REAR COMBINATION LIGHT REMOVAL/INSTALLATION

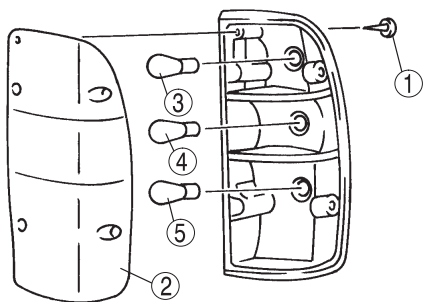
1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



1	Screw
2	Rear combination light
3	Rear combination light connector

REAR COMBINATION LIGHT BULB REMOVAL/INSTALLATION

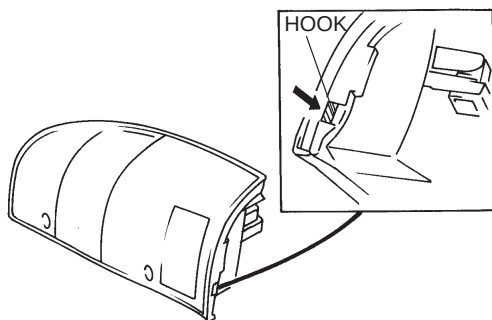
1. Disconnect the negative battery cable.
2. Remove the rear combination light.
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.



1	Screw
2	Lens + Removal Note
3	Rear turn light bulb
4	Back-up light bulb
5	Brake light/taillight bulb

Lens Removal Note

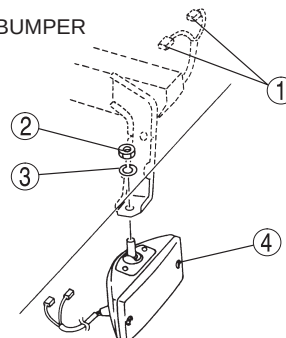
- Push the hook upward with your finger.



REAR FOG LIGHT REMOVAL/INSTALLATION

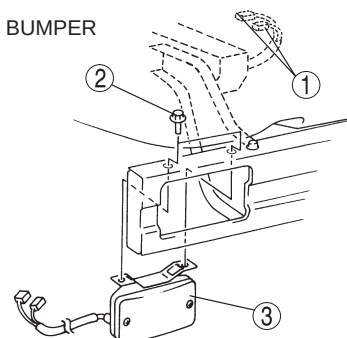
1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.

WITHOUT REAR BUMPER



1	Rear fog light connector
2	Nut
3	Spring washer
4	Rear fog light

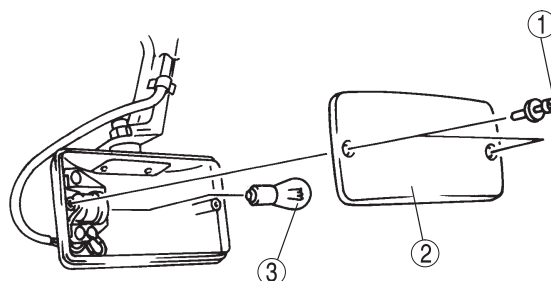
WITH REAR BUMPER



1	Rear fog light connector
2	Screw
3	Rear fog light

REAR FOG LIGHT BULB REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.

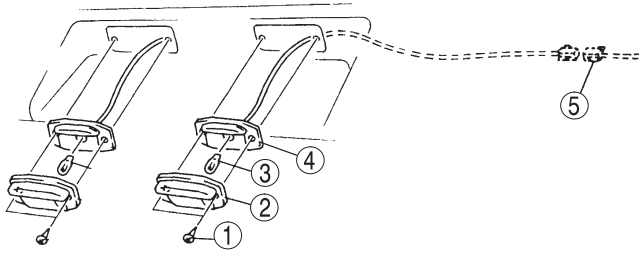


1	Screw
2	Lens
3	Rear fog light bulb

EXTERIOR LIGHTING SYSTEM

LICENSE PLATE LIGHT REMOVAL/INSTALLATION

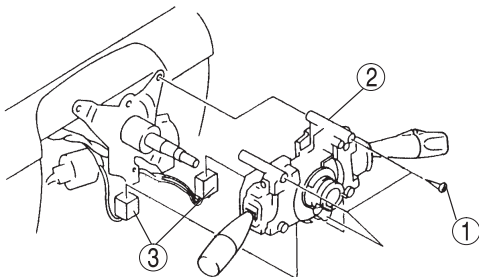
1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



1	Screw
2	License plate light
3	License plate light bulb
4	Socket
5	License plate light connector

COMBINATION SWITCH REMOVAL/INSTALLATION

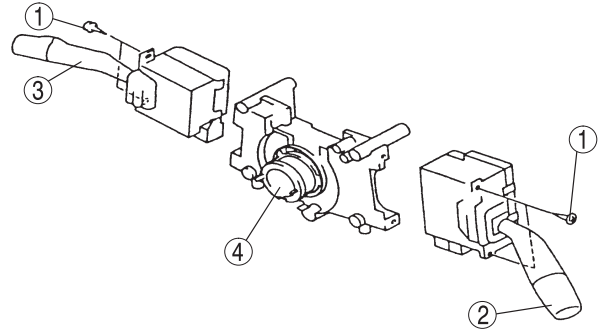
1. Disconnect the negative battery cable.
2. For vehicles without air bag system, remove the horn cap. For vehicles with air bag system, remove the driver-side air bag module. (Refer to AIR BAG SYSTEM, DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)
3. Remove the steering wheel. (Refer to section N, MANUAL STEERING, STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION.)
4. For vehicles with air bag system, remove the clock spring. (Refer to AIR BAG SYSTEM, CLOCK SPRING REMOVAL/INSTALLATION.)
5. Remove the column cover.
6. Remove in the order indicated in the table.
7. Install in the reverse order of removal.



1	Screw
2	Combination switch
3	Combination switch connector

COMBINATION SWITCH DISASSEMBLY/ASSEMBLY

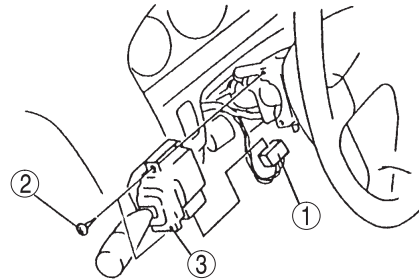
1. Disassemble in the order indicated in the table.
2. Assemble in the reverse order of disassembly.



1	Screw
2	Windshield wiper and washer switch
3	Light switch
4	Body

LIGHT SWITCH REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the column cover.
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.



1	Light switch connector
2	Screw
3	Light switch

LIGHT SWITCH INSPECTION

Headlight Switch

1. Remove the light switch. (Refer to LIGHT SWITCH REMOVAL/INSTALLATION.)

Note

- When the flash-to-pass switch is on, the contact of the low-high switch is at neutral.

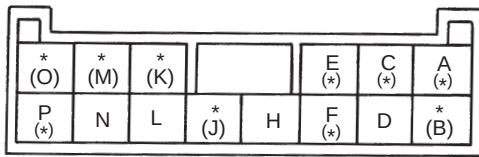
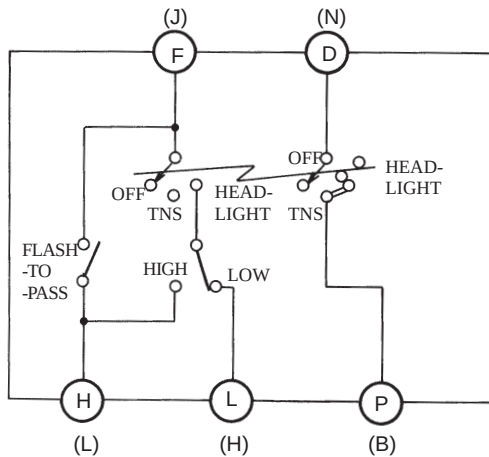
2. Inspect for continuity between the light switch terminals using an ohmmeter.

EXTERIOR LIGHTING SYSTEM

○—○ : Continuity

Switch position			Terminal				
Light	Dimmer	Flash-to-pass	P (B)	D (N)	L (H)	F (J)	H (L)
OFF	—	Off					
		On				○—○	
TNS	—	Off	○—○				
		On	○—○			○—○	
Head-light	Low	Off	○—○		○—○		
		On	○—○			○—○	
	High	—	○—○			○—○	

(): Light switch right side lever



(): LIGHT SWITCH RIGHT SIDE LEVER

3. If not as specified, replace the light switch.

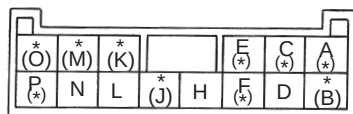
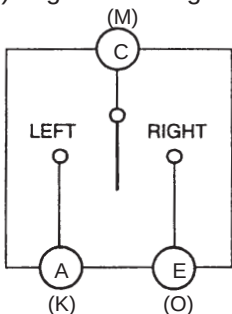
Turn Switch

1. Remove the light switch. (Refer to LIGHT SWITCH REMOVAL/INSTALLATION.)
2. Inspect for continuity between the light switch terminals using an ohmmeter.

○—○ : Continuity

Switch position	Terminal		
	C (M)	A (K)	E (O)
Right	○—○		○—○
Off			
Left	○—○	○—○	

(): Light switch right side lever

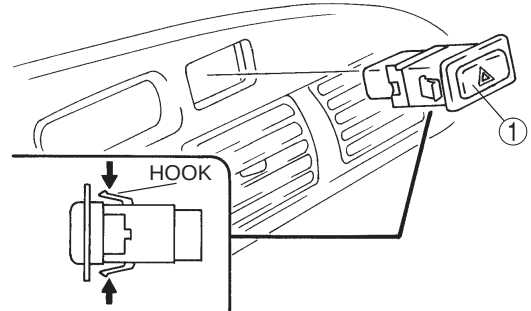


(): LIGHT SWITCH RIGHT SIDE LEVER

3. If not as specified, replace the light switch.

HAZARD WARNING SWITCH REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the meter hood. (Refer to section S, DASHBOARD AND CONSOLE, METER HOOD REMOVAL/INSTALLATION.)
3. Remove as indicated in the table.
4. Install in the reverse order of removal.



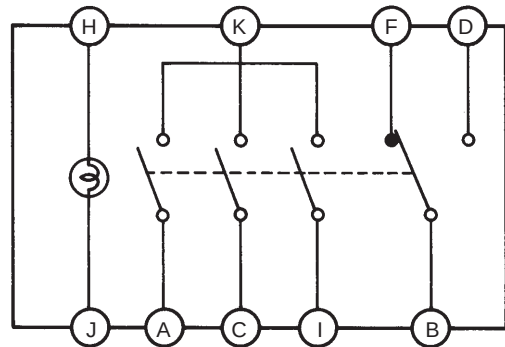
1 Hazard warning switch

HAZARD WARNING SWITCH INSPECTION

1. Remove the meter hood. (Refer to section S, DASHBOARD AND CONSOLE, METER HOOD REMOVAL/INSTALLATION.)
2. Inspect for continuity between the hazard warning switch terminals using an ohmmeter.

○—○ : Continuity ○—○ : Bulb

Switch position	Terminal							
	F	D	B	A	C	I	K	H
Off	○—○							○—○
On		○—○	○—○	○—○	○—○	○—○	○—○	○—○

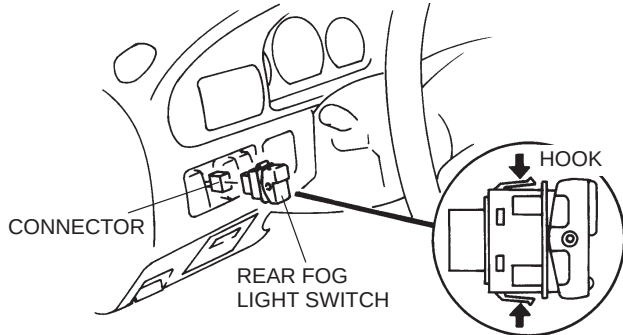


3. If not as specified, replace the hazard warning switch.

EXTERIOR LIGHTING SYSTEM

REAR FOG LIGHT SWITCH REMOVAL

1. Disconnect the negative battery cable.
2. Insert your hand under the dashboard near the fuse block, grasp the hooks of the rear fog light switch and pull it forward to remove it.
3. Disconnect the connector to remove the rear fog light switch.



REAR FOG LIGHT SWITCH INSTALLATION

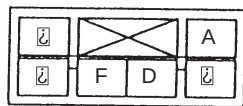
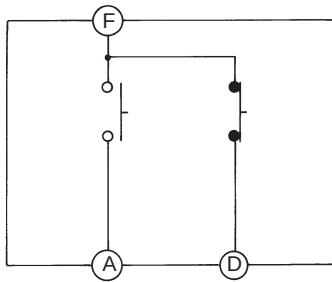
1. Connect the rear fog light switch connector.
2. Insert the rear fog light switch in the hole to install it.
3. Connect the negative battery cable.

REAR FOG LIGHT SWITCH INSPECTION

1. Remove the rear fog light switch. (Refer to REAR FOG LIGHT SWITCH REMOVAL/INSTALLATION.)
2. Inspect for continuity between the rear fog light switch terminals using an ohmmeter.

○—○ : Continuity

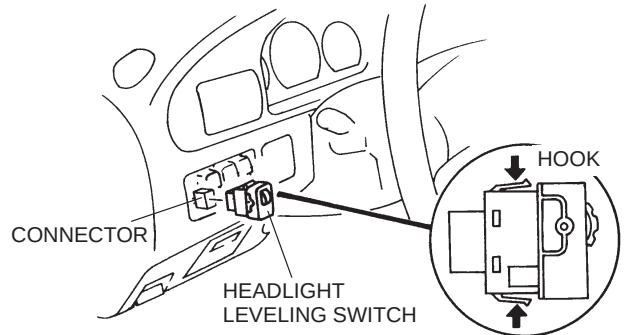
Switch position	Terminal		
	A	D	F
Off			
Neutral		○—○	○—○
On	○—○	○—○	○—○



3. If not as specified, replace the rear fog light switch.

HEADLIGHT LEVELING SWITCH REMOVAL

1. Disconnect the negative battery cable.
2. Insert your hand under the dashboard near the fuse block, grasp the hooks of the headlight leveling switch and pull it forward to remove it.
3. Disconnect the connector to remove the headlight leveling switch.



HEADLIGHT LEVELING SWITCH INSTALLATION

1. Connect the headlight leveling switch connector.
2. Insert the headlight leveling switch in the hole to install it.
3. Connect the negative battery cable.

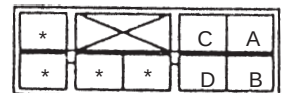
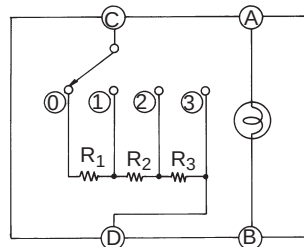
HEADLIGHT LEVELING SWITCH INSPECTION

1. Remove the headlight leveling switch. (Refer to HEADLIGHT LEVELING SWITCH REMOVAL/INSTALLATION.)
2. Inspect for continuity between the headlight leveling switch terminals using an ohmmeter.

○—○ : Continuity ○—○ : Resistance ○—○ : Bulb

Switch position	Terminal			
	C	D	A	B
0	○—○ $R_1 + R_2 + R_3$	○—○	○—○	○—○
1	○—○ $R_2 + R_3$	○—○	○—○	○—○
2	○—○ R_3	○—○	○—○	○—○
3	○—○	○—○	○—○	○—○

$R_1: 1600 \Omega$ $R_2: 560 \Omega$ $R_3: 300 \Omega$

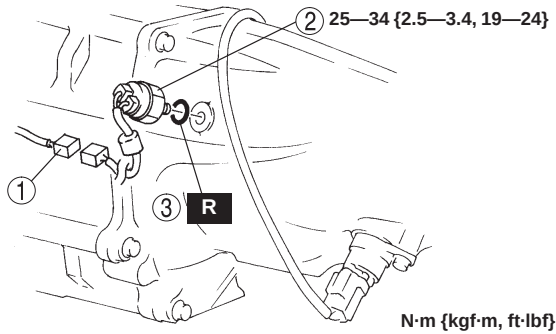


3. If not as specified, replace the headlight leveling switch.

EXTERIOR LIGHTING SYSTEM

BACK-UP LIGHT SWITCH REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



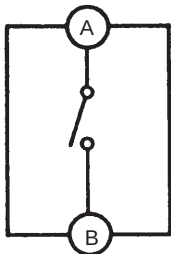
1	Back-up light switch connector
2	Back-up light switch
3	Gasket

BACK-UP LIGHT SWITCH INSPECTION

1. Disconnect the back-up light switch connector.
2. Inspect for continuity between the back-up light switch terminals using an ohmmeter.

○—○ : Continuity

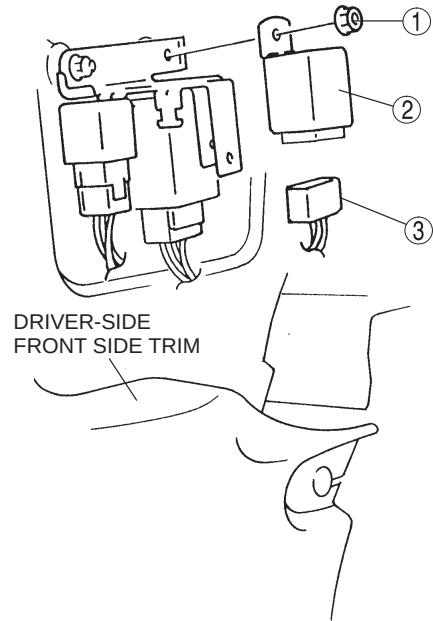
Shift lever position	Terminal	
	A	B
Reverse	○—○	○—○
Other		



3. If not as specified, replace the back-up light switch.

FLASHER UNIT REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



1	Nut
2	Flasher unit
3	Flasher unit connector

EXTERIOR LIGHTING SYSTEM

FLASHER UNIT INSPECTION (VEHICLES BUILT UP TO 07/2002)

1. Measure the voltage at the flasher unit terminals as indicated below.
2. Disconnect the flasher unit connector before inspecting for continuity at terminal C.
3. If not as specified, inspect the parts listed under "Inspection area" and the related wiring harnesses.
4. If the parts and wiring harnesses are okay but the system still does not work properly, replace the flasher unit.

Terminal Voltage List (Reference)

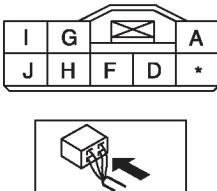
B+: Battery positive voltage

A C B						
Terminal	Signal	Connection	Test condition		Voltage (V) /Continuity	Inspection area
A	Flasher unit output	Hazard warning switch	Hazard warning switch on		Alternates B+ and 0	● Hazard warning switch ● Turn signal light
			Hazard warning switch off	Ignition switch at ON position	B+	
				Ignition switch at LOCK or ACC position	0	
B	Power supply	Hazard warning switch	Hazard warning switch on		B+	● HAZARD 10 A fuse ● METER 15 A fuse ● Hazard warning switch
			Hazard warning switch off	Ignition switch at ON position	B+	
				Ignition switch at LOCK or ACC position	0	
C	Flasher unit ground	GND	Constant: inspect for continuity to ground		Yes	GND

FLASHER UNIT INSPECTION (VEHICLES BUILT FROM 08/2002)

1. Connect the connector to the flasher unit.
2. Connect the negative battery cable.
3. Measure the voltage at the flasher unit using voltmeter.
 - When inspecting terminal F for continuity, disconnect the flasher unit connector.
4. If the value are not as specified in the Terminal Voltage List (Reference), inspect the parts under "Action" and related wiring harnesses.
5. If the system does not work properly even though the parts or related wiring harnesses do not have any malfunction, replace the flasher unit.

Terminal Voltage List (Reference)

FLASHER UNIT HARNESS SIDE CONNECTOR 					
Terminal	Signal	Connected to	Test condition	Voltage (V) /Continuity	Action
A	Power supply	HAZARD 10 A fuse	Under any condition	B+	• Inspect HAZARD 10 A fuse • Inspect related harness

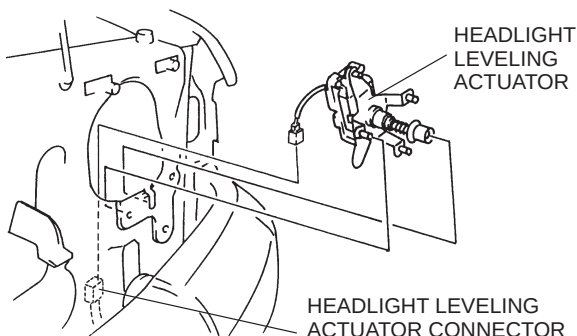
EXTERIOR LIGHTING SYSTEM

Terminal	Signal	Connected to	Test condition	Voltage (V)/ Continuity	Action
D	Turn signal flasher (LH)	Turn signal light (LH)	Turn signal light (LH) flashes	Alternates below 1.0 and B+	- Inspect turn signal light (LH) - Inspect related harness
			Hazard warning switch at on position		
			Other	Below 1.0	
F	Flasher unit ground	GND	Constant: inspect for continuity to ground	Yes	Inspect GND
G	Turn signal flasher (RH)	Turn signal light (RH)	Turn signal light (RH) flashes	Alternates below 1.0 and B+	- Inspect turn signal light (RH) - Inspect related harness
			Hazard warning switch at on position		
			Other	Below 1.0	
H	Hazard warning on	Hazard warn- ing switch	Hazard warning switch at on position	Below 1.0	- Inspect hazard warning switch - Inspect related harness
			Hazard warning switch at off position	B+	
I	Turn switch on/off (RH)	Combination switch	Ignition switch is at ON and turn switch (RH) on	B+	- Inspect combination switch - Inspect related harness
			Other	Below 1.0	
J	Turn switch on/off (LH)	Combination switch	Ignition switch is at ON and turn switch (LH) on	B+	- Inspect combination switch - Inspect related harness
			Other	Below 1.0	

HEADLIGHT LEVELING ACTUATOR REMOVAL/INSTALLATION

9. Install in the reverse order of removal.

1. Disconnect the negative battery cable.
2. Remove the radiator grille. (Refer to section S, EXTERIOR ATTACHMENT, RADIATOR GRILLE REMOVAL/INSTALLATION.)
3. Remove the front turn light. (Refer to FRONT TURN LIGHT REMOVAL/INSTALLATION.)
4. Remove the front combination light. (Refer to FRONT COMBINATION LIGHT REMOVAL/INSTALLATION.)
5. Remove the headlight leveling actuator connector from the bracket.
6. Disconnect the headlight leveling actuator connector.
7. Remove the nuts.
8. Remove the headlight leveling actuator.



EXTERIOR LIGHTING SYSTEM

HEADLIGHT LEVELING ACTUATOR INSPECTION

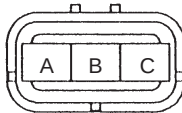
1. Measure the voltage at the headlight leveling actuator terminals as indicated below.

Note

- Because the headlight leveling actuator connector is waterproof, it is impossible to measure the voltage at the headlight leveling actuator terminals. When inspecting, measure the voltage at the terminal of the part which is connected to the headlight leveling actuator.
- (1) To measure the voltage at the terminal A of the headlight leveling actuator, remove the column cover and measure the voltage at the terminal N of the light switch connector. (Refer to LIGHT SWITCH INSPECTION.)
 - (2) To measure the voltage at the terminal B of the headlight leveling actuator, remove the headlight leveling switch with the connector connected and measure the voltage at the terminal C of the headlight leveling switch connector. (Refer to HEADLIGHT LEVELING SWITCH INSPECTION.)
 - (3) Disconnect the headlight leveling actuator connector before inspecting for continuity at terminal C.
2. If not as specified, inspect the parts listed under "Inspection area" and the related wiring harnesses.
 3. If the parts and wiring harnesses are okay but the system still does not work properly, replace the headlight leveling actuator.

Terminal Voltage List (Reference)

B+: Battery positive voltage

						
Terminal	Signal	Connection	Test condition		Voltage (V) /Continuity	Inspection area
A	Headlight leveling actuator power supply	Combination switch	Headlight illuminated		B+	Combination switch
			Headlight unilluminated		0	
B	Headlight leveling switch position	Headlight leveling switch	Headlight switch on	Headlight leveling switch at 0	6.2	Headlight leveling switch
				Headlight leveling switch at 1	4.2	
				Headlight leveling switch at 2	2.1	
				Headlight leveling switch at 3	0	
C	Headlight leveling actuator ground	GND	Constant : inspect for continuity to ground		Yes	GND

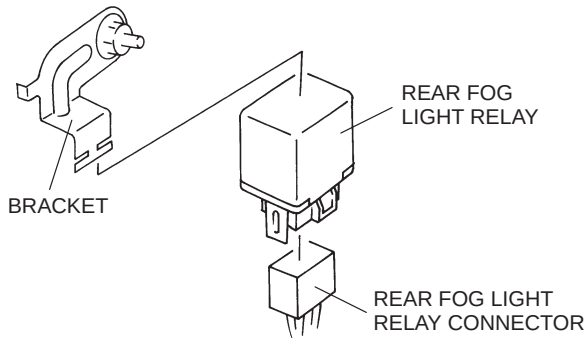
EXTERIOR LIGHTING SYSTEM

REAR FOG LIGHT RELAY REMOVAL/INSTALLATION

Note

- Because the lock section of the relay is damaged easily, do not remove the relay from the bracket unless replacement is necessary. Always perform an inspection of the rear fog light relay before removal.

1. Disconnect the negative battery cable.
2. Disconnect the rear fog light relay connector.
3. Remove the rear fog light relay by prying the lock section of the upper part with a flathead screwdriver.



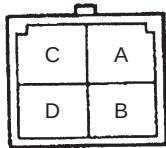
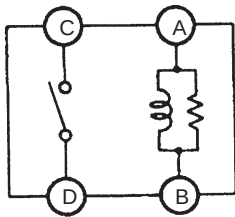
4. Install in the reverse order of removal.

REAR FOG LIGHT RELAY INSPECTION

1. Remove the bracket and pull it toward you.
2. Inspect for continuity between the rear fog light relay terminals using an ohmmeter.

○—○ : Continuity B+ : Battery positive voltage

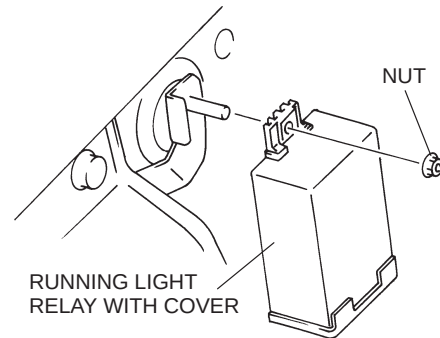
Step	Terminal			
	A	B	C	D
1	○—○	○—○		
2	B+	GND	○—○	○—○



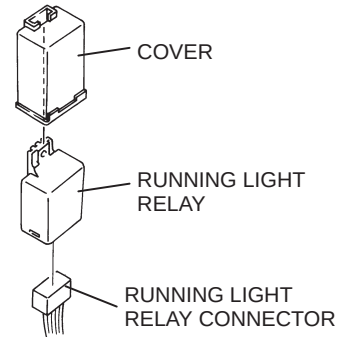
3. If not as specified, replace the rear fog light relay.

RUNNING LIGHT RELAY REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the washer tank from the bracket.
3. Remove the running light relay with the cover attached.



4. Remove the cover.
5. Disconnect the running light relay connector.



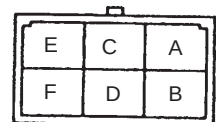
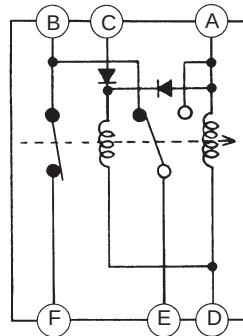
6. Install in the reverse order of removal.

RUNNING LIGHT RELAY INSPECTION

1. Remove the running light relay. (Refer to RUNNING LIGHT RELAY REMOVAL/INSTALLATION.)
2. Inspect for continuity between the running light relay terminals using an ohmmeter.

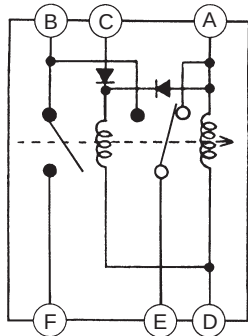
○—○ : Continuity ○▶○ : Diode

Test condition	Terminal					
	A	B	C	D	E	F
Constant	○—○		○—○	○▶○	○—○	○—○



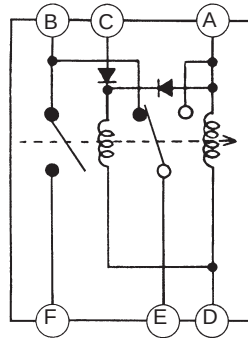
EXTERIOR LIGHTING SYSTEM

3. Connect the terminal A to the positive battery terminal and the terminal D to the negative battery terminal.
4. Verify that there is continuity between terminals A and E, and that there is no continuity between terminals B and F.



E	C	A
F	D	B

5. Connect the terminal C to the positive battery terminal and the terminal D to the negative battery terminal.
6. Verify that there is no continuity between terminals B and F, and between terminals A and E.



E	C	A
F	D	B

7. If not as specified, replace the running light relay.