

BODY ELECTRICAL SYSTEM

PRECAUTION

BE011-08

HINT:

Take care to observe the following precautions when performing inspections or removal and replacement of body electrical related parts.

1. HEADLIGHT SYSTEM

Halogen bulbs have pressurized gas inside and require special handling. They can burst if scratched or dropped. Hold a bulb only by its plastic or metal case. Don't touch the glass part of a bulb with bare hands.

2. SRS (SUPPLEMENTAL RESTRAINT SYSTEM)

The LEXUS IS200 is equipped with an SRS (Supplemental Restraint System) such as the driver airbag and front passenger airbag. Failure to carry out service operation in the correct sequence could cause the SRS to unexpectedly deploy during servicing, possibly leading to a serious accident. Before servicing (including removal or installation of parts, inspection or replacement), be sure to read the precautionary notices in the RS section.

3. AUDIO SYSTEM

- If the negative (–) terminal cable is disconnected from the battery, the preset AM, FM 1 and FM 2 stations stored in memory are erased, so make sure to note the stations and reset them after the negative (–) terminal cable is reconnected to the battery.
- If the negative (–) terminal cable is disconnected from the battery, the "ANTI-THEFT SYSTEM" will operate when the cable is reconnected, but the radio, tape player and CD player will not operate. Be sure to input the correct ID number so that the radio, tape player and CD player can be operated again.

4. MOBILE COMMUNICATION SYSTEM

If the vehicle is equipped with a mobile communication system, refer to precautions in the IN section.



TROUBLESHOOTING

PROBLEM SYMPTOMS TABLE

BE16S-01

IGNITION SWITCH AND KEY UNLOCK WARNING SWITCH

This system uses the multiplex communication system, so check diagnosis system of the multiplex communication system before you proceed with troubleshooting.

Ignition Switch:

Symptom	Suspect Area	See page
Ignition switch is not set to each position.	1. Ignition switch 2. Power source circuit	BE-23 -

Key Unlock Warning Switch:

Symptom	Suspect Area	See page
Key unlock warning system does not operate. (The buzzer sounds when the ignition key is ACC or ON)	1. Ignition Switch 2. Key Unlock Warning Switch 3. Wire Harness 4. Body ECU 5. Combination Meter	BE-23 BE-23 - - -

HEADLIGHT AND TAILLIGHT SYSTEM:

This system uses the multiplex communication system, so check diagnosis system of the multiplex communication system before you proceed with troubleshooting.

Symptom	Suspect Area	See page
"Automatic light control system" does not operate.	1. Automatic Light Control Sensor 2. Light Control Switch 3. Door Courtesy Switch 4. Wire Harness 5. Theft Deterrent ECU 6. Body ECU	BE-30 DI-630 BE-30 BE-57 - DI-428 DI-549
Auto turn-off system does not operate when the driver's door is opened.	1. Drivers Door Courtesy Switch 2. Body ECU	BE-57 DI-549
Auto turn-off system: Headlight and taillight do not come on.	1. Body ECU 2. Wire Harness	DI-549 -
Auto turn-off system: Headlight and taillight stay on.	1. Body ECU 2. Wire Harness	DI-549 -

w/o Daytime Running Light System:

Symptom	Suspect Area	See page
Only one headlight comes on.	1. Bulb 2. Wire Harness	- -
"LO-Beam" does not light (All).	1. Headlight Control Relay 2. Wire Harness	BE-30 -
"LO-Beam" does not light (One side).	1. Bulb 2. H-LP L-LWR Fuse 3. H-LP R-LWR Fuse 4. Wire Harness	- BE-14 BE-14 -
"HI-Beam" does not light (All).	1. Headlight Dimmer Switch 2. Wire Harness	BE-30 -
"HI-Beam" does not light (One side).	1. Bulb 2. H-LP L-UPR Fuse 3. H-LP R-UPR Fuse 4. Wire Harness	- BE-14 BE-14 -

BODY ELECTRICAL – TROUBLESHOOTING

"Flash" does not light.	1. H-LP L-UPR Fuse 2. H-LP R-UPR Fuse 3. Headlight Dimmer Switch 4. Wire Harness	BE-14 BE-14 BE-30 –
"Flash" does not light.	1. Bulb 2. Wire Harness	– –
Headlight does not come on.	1. Headlight Control Relay 2. Light Control Switch 3. Wire Harness	BE-30 BE-30 –
Headlight does not come on.	1. Bulb 2. Wire Harness	– –
Headlight flickers.	1. Bulb 2. Wire Harness	– –
Headlight is dark.	1. Bulb 2. Wire Harness	– –
Only one taillight comes on.	1. Bulb 2. Wire Harness	– –
Taillight does not come on. (Headlight is normal)	1. TAIL Fuse 2. GAUGE Fuse 3. Taillight Control Relay 4. Light Failure Relay 5. Light Control Switch 6. Wire Harness	BE-14 BE-14 BE-83 BE-83 BE-30 –
Taillight does not come on. (Headlight does not light)	1. Light Control Switch 2. Wire Harness	BE-30 –
Rear combination light does not come on.	1. Light Failure Relay 2. Wire Harness 3. Bulb	BE-83 – –

w/ Daytime Running Light System:

Symptom	Suspect Area	See page
Only one headlight comes on.	1. Daytime Running Light No.2 Relay 2. Daytime Running Light Main Relay 3. Bulb 4. Wire Harness 5. Combination Meter	BE-30 BE-30 – – –
"LO-Beam" does not light (All).	1. Headlight Control Relay 2. Wire Harness	BE-30 –
"LO-Beam" does not light (One side).	1. Bulb 2. H-LP L-LWR Fuse 3. H-LP R-LWR Fuse 4. Wire Harness	– BE-14 BE-14 –
"HI-Beam" does not light (All).	1. Headlight Dimmer Switch 2. Daytime Running Light Main Relay 3. Wire Harness 4. Combination Meter	BE-30 BE-30 – –
"HI-Beam" does not light (One side).	1. Bulb 2. H-LP L-UPR Fuse 3. H-LP R-UPR Fuse 4. Daytime Running Light No.2 Relay 5. Wire Harness	– BE-14 BE-14 BE-30 –

"Flash" does not light.	1. Headlight Dimmer Switch 2. Daytime Running Light Main Relay 3. Wire Harness 4. Combination Meter	BE-30 BE-30 - -
Headlight does not come on.	1. Headlight Control Relay 2. Daytime Running Light Main Relay 3. Daytime Running Light No.2 Relay 4. Headlight Dimmer Switch 5. Light Control Switch 6. Wire Harness 7. Bulb 8. Combination Meter	BE-30 BE-30 BE-30 BE-30 BE-30 - - -
Headlight does not come on with light control switch in HEAD.	1. Light Control Switch 2. Wire Harness	BE-30 -
Headlight does not go out with light control switch in OFF.	1. Headlight Control Relay 2. Wire Harness	BE-30 -
Headlight flickers.	1. Bulb 2. Wire Harness	- -
Headlight is dark.	1. Bulb 2. Wire Harness	- -
Taillight does not come on with light control switch in TAIL.	1. Taillight Control Relay 2. Light Control Switch 3. Wire Harness	BE-30 - -
Taillight does not go out with light control switch in OFF.	1. Taillight Control Relay 2. Light Control Switch 3. Wire Harness	BE-30 BE-30 -
Headlight does not come on with engine running and light control switch in OFF.	1. ECU-B Fuse 2. GAUGE Fuse 3. Daytime Running Light Main Relay 4. Daytime Running Light No.2 Relay 5. Alternator L Terminal 6. Parking Brake Switch 7. Wire Harness 8. Combination Meter	BE-14 BE-14 BE-30 BE-30 CH-9 BE-83 - -

HEADLIGHT BEAM LEVEL CONTROL SYSTEM

Symptom	Suspect Area	See page
Headlight beam level control system does not operate. (All)	1. H-LP LVL Fuse 2. Headlight Beam Level Control Switch 3. Headlight Beam Level Control Actuator 4. Wire Harness	BE-14 BE-42 BE-42 -
Headlight beam level control system does not operate. (One side)	1. Headlight Beam Level Control Switch 2. Headlight Beam Level Control Actuator 3. Wire Harness	BE-42 BE-42 -
Abnormal operation (All)	1. Headlight Beam Level Control Switch 2. Headlight Beam Level Control Actuator 3. Wire Harness	BE-42 BE-42 -
Abnormal operation (One side)	1. Headlight Beam Level Control Switch 2. Headlight Beam Level Control Actuator 3. Wire Harness	BE-42 BE-42 -

FOG LIGHT SYSTEM

This system uses the multiplex communication system, so check diagnosis system of the multiplex communication system before you proceed with troubleshooting.

Symptom	Suspect Area	See page
Front fog light does not light up with light control SW TAIL or HEAD. (Headlight is normal.)	1. Bulbs 2. FR FOG Fuse 3. Front Fog Light Relay 4. Front Fog Light Switch 5. Wire Harness	– BE-14 BE-45 BE-45 –
Front fog light does not light up with light control SW TAIL or HEAD. (Headlight does not light.)	1. Inspect Headlight and Taillight System 2. Wire Harness	BE-2 –
Only one light does not light.	1. Bulbs 2. Wire Harness	– –
Rear fog light does not light with light control SW HEAD. (Headlight is normal.)	1. Bulbs 2. ECU-B2 Fuse 3. Rear Fog Light Switch 4. Wire Harness	– BE-14 BE-45 –
Rear fog light does not light with light control SW HEAD. (Headlight does not light.)	1. Inspect Headlight and Taillight System 2. Wire Harness	BE-2 –
Only one light does not light.	1. Bulbs 2. Wire Harness	– –

TURN SIGNAL AND HAZARD WARNING SYSTEM

This system uses the multiplex communication system, so check diagnosis system of the multiplex communication system before you proceed with troubleshooting.

Symptom	Suspect Area	See page
"Hazard" and "Turn" do not light up.	1. GAUGE Fuse 2. TURN HAZ Fuse 3. Ignition Switch 4. Turn Signal Flasher Relay 5. Wire Harness	BE-14 BE-14 BE-23 BE-51 –
Hazard warning light does not light up. (Turn is normal)	1. A/C Control Panel 2. Wire Harness	AC-91 –
Turn signal does not light up. (Hazard is normal)	1. Turn Signal Switch 2. Wire Harness	BE-51 –
Turn signal does not light up in one direction.	1. Turn Signal Switch 2. Wire Harness	BE-51 –
Only one bulb does not light up.	1. Bulb 2. Wire Harness	– –

INTERIOR LIGHT SYSTEM

This system uses the multiplex communication system, so check diagnosis system of the multiplex communication system before you proceed with troubleshooting.

Symptom	Suspect Area	See page
All the lights do not come ON.	DOME Fuse	BE-14
The driver door courtesy light does not come ON when the driver's door is opened.	1. Driver's Door Courtesy Switch 2. Wire Harness 3. Body ECU	BE-57 - -
The passenger door courtesy light does not come ON when the passenger's door is opened.	1. Passenger's Door Courtesy Switch 2. Wire Harness 3. Body ECU	BE-57 - -
The room light does not come on when the rear-right door is opened.	1. Rear-Right Door Courtesy Switch 2. Wire Harness 3. Body ECU 4. Room Light	BE-57 - - -
The room light does not come on when the rear-left door is opened.	1. Rear-Left Door Courtesy Switch 2. Wire Harness 3. Body ECU 4. Room Light	BE-57 - - -
Only one of the bulbs comes ON.	Bulb	-
The illumination does not fade out when all the doors are closed.	1. Courtesy Switch 2. Wire Harness 3. Body ECU	BE-57 - -
The illumination does not fade out immediately when the ignition switch is turned to ACC or ON within 15 seconds after all the doors are closed.	1. Ignition Switch 2. RADIO NO.2 Fuse 3. GAUGE Fuse 4. Wire Harness 5. Body ECU	BE-23 BE-14 BE-14 - -
The illumination does not fade out immediately when all the doors are locked within 15 seconds after they are closed.	1. Door Unlock Detection Switch 2. Wire Harness 3. Body ECU	BE-11 - -
Interior light does not light up. (in front personal light)	1. Bulb 2. Front Personal Light 3. Wire Harness	- BE-57 -
Front personal light does not light up.	1. Bulb 2. Front Personal Light 3. Wire Harness	- BE-57 -
Rear personal light does not light up.	1. Bulb 2. Rear Personal Light 3. Wire Harness	- BE-57 -
Vanity light does not light up.	1. Bulb 2. Vanity Light 3. Wire Harness	- BE-57 -
Luggage compartment light does not light up.	1. Bulb 2. Luggage Compartment Door Courtesy Switch 3. Wire Harness	- BE-57 -
Courtesy light does not light up.	1. Bulb 2. Door Courtesy Switch 3. Wire Harness 4. Body ECU	- BE-57 - -

BACK-UP LIGHT SYSTEM

Symptom	Suspect Area	See page
Back-Up Light does not light up.	1. GAUGE Fuse 2. Ignition Switch 3. Wire Harness 4. Bulb	BE-14 BE-23 – –
Back-Up Light remains always on.	1. Neutral Start Switch 2. Wire Harness	DI-204 –
Only one light does not light up.	1. Bulb 2. Wire Harness	– –

STOP LIGHT SYSTEM

Symptom	Suspect Area	See page
Stop light does not light up.	1. STOP Fuse 2. Stop Light Switch 3. Light Failure Relay 4. Wire Harness	BE-14 BE-65 BE-83 –
Stop light always lights up.	1. Stop Light Switch 2. Wire Harness	BE-65 –
Only one light always lights up.	Wire Harness	–
Only one light does not light up.	1. Bulb 2. Wire Harness	– –

HEADLIGHT CLEANER SYSTEM

Symptom	Suspect Area	See page
"Headlight Cleaner System" does not operate (All)	1. H-LP CLN Fuse 2. WASHER Fuse 3. Ignition Switch 4. Headlight Cleaner Switch 5. Headlight Cleaner Relay 6. Headlight Cleaner Motor 7. Headlight Cleaner Nozzle and Hose 8. Wire Harness	BE-14 BE-14 BE-23 BE-67 BE-67 BE-67 – –
Washer fluid does not spray.	Headlight Cleaner Nozzle and Hose	–

WIPER AND WASHER SYSTEM

Symptom	Suspect Area	See page
Wipers and washer do not operate.	1. WIP Fuse 2. Wiper Switch 3. Wiper Motor 4. Wire Harness	BE-14 BE-71 BE-71 –
Wipers do not operate in LO, HI or MIST.	1. Wiper Switch 2. Wiper Motor 3. Wire Harness	BE-71 BE-71 –
Wipers do not operate in INT.	1. Wiper Switch 2. Wiper Motor 3. Wire Harness	BE-71 BE-71 –
Washer motor does not operate.	1. WASHER Fuse 2. Washer Switch 3. Washer Motor 4. Wire Harness	BE-14 BE-71 BE-71 –
Wipers do not operate when washer switch ON.	1. WASHER Fuse 2. Washer Switch 3. Wiper Motor 4. Wire Harness	BE-14 BE-71 BE-71 –

Washer fluid does not operate.	Washer Hose and Nozzle	–
- When wiper switch is in HI position, the wiper blade is in contact with the body. - When the wiper switch is OFF, the wiper blade does not retract or the retract position is wrong.	1. Wiper Motor *1 2. Wire harness *1	BE-71 –

*1: Inspect wiper arm and blade set positions.

COMBINATION METER

- This system uses the multiplex communication system, so check diagnosis system of the multiplex communication system before you proceed with troubleshooting.
- Refer to DI section for warning light or indicator light not described in the table below.

Symptom	Suspect Area	See page
Driver seat belt warning light does not light up.	1. Bulb 2. Driver Buckle Switch Circuit 3. Meter Circuit Plate 4. Wire Harness 5. Body ECU	– BE-83 BE-83 – DI-549
Passenger seat belt warning light does not light up. (in A/C control panel)	1. Passenger Buckle Switch Circuit 2. Occupant Detection Sensor 3. A/C Control Panel 4. Wire Harness 5. A/C ECU	BE-83 BE-83 DI-667 – DI-667
SRS warning light does not light up.	1. MPX-B Fuse 2. SRS-B Fuse 3. Bulb 4. Meter Circuit Plate 5. Wire Harness 6. Airbag Sensor Assembly	BE-14 BE-14 – BE-83 – DI-285
Hi-beam indicator light does not light up.	1. Bulb 2. Meter Circuit Plate 3. Wire Harness 4. Headlight System	– BE-83 – BE-30
Turn indicator light does not light up.	1. Bulb 2. Meter Circuit Plate 3. Wire Harness 4. Turn Signal and Hazard Warning System	– BE-83 – BE-30
ABS warning light does not light up.	1. GAUGE Fuse 2. Bulb 3. Meter Circuit Plate 4. Wire Harness 5. ABS ECU	BE-14 – BE-83 – DI-221
TRC warning light does not light up.	1. GAUGE Fuse 2. Bulb 3. Meter Circuit Plate 4. Wire Harness 5. ABS ECU	BE-14 – BE-83 – DI-221
Check engine warning light does not light up.	1. Bulb 2. Meter Circuit Plate 3. Wire Harness 4. Engine and ECT ECU	– BE-83 – DI-1
Fuel level warning light does not light up.	1. Bulb 2. Fuel Level Warning Switch 3. Meter Circuit Plate 4. Wire Harness	– BE-83 BE-83 –

DEFOGGER SYSTEM

This system uses the multiplex communication system, so check diagnosis system of the multiplex communication system before you proceed with troubleshooting.

Symptom	Suspect Area	See page
Rear window defogger does not operate.	1. HTR Fuse 2. DEF M-Fuse 3. Defogger Relay Circuit 4. Defogger Switch (in A/C Panel Switch) 5. Defogger Wire 6. Wire Harness 7. Body ECU 8. Noise Filter 9. A/C ECU	BE-14 BE-14 DI-605 DI-667 BE-96 – DI-549 – DI-667
Mirror heater does not operate.	1. MIR-HTR Fuse (Passenger Side J/B) 2. Mirror Heater Relay 3. Mirror Heater 4. Wire Harness	BE-14 BE-96 BE-96 –

POWER WINDOW CONTROL SYSTEM

This system uses the multiplex communication system, so check diagnosis system of the multiplex communication system before you proceed with troubleshooting.

Symptom	Suspect Area	See page
All the power windows do not operate. (Power Door Lock System is normal.)	1. Power Window Master Switch 2. Wire Harness 3. Body ECU	BE-109 – DI-549
Only the driver's window does not operate.	1. Power Window Master Switch 2. Power Window Switch 3. Power Window Motor 4. Wire Harness	BE-109 BE-109 BE-109 –
"Window lock function" does not operate.	1. Power Window Master Switch	BE-109
Power window control system abnormal operation.	TROUBLESHOOTINGS	BE-99

POWER DOOR LOCK CONTROL SYSTEM

This system uses the multiplex communication system, so check diagnosis system of the multiplex communication system before you proceed with troubleshooting.

Symptom	Suspect Area	See page
All the doors cannot be locked or unlocked. (Power Window Control System is normal.)	1. Door Lock Control Switch 2. Wire Harness 3. Body ECU	BE-11 – DI-549
Only one side door lock control does not operate.	1. Door Lock Motor 2. Wire Harness	BE-11 –
Door key related function does not operate.	1. Door Key Lock and Unlock Switch 2. Wire Harness 3. Body ECU	BE-11 – DI-549
Key confinement prevention function does not operate.	1. Key Unlock Warning Switch 2. Door Courtesy Switch 3. Wire Harness 4. Body ECU	BE-23 BE-57 – DI-549
Luggage compartment door opener function does not operate.	1. Luggage Compartment Door Opener Switch 2. Luggage Compartment Door Opener Motor 3. Wire Harness 4. Body ECU	BE-11 BE-11 – DI-549

DEAD LOCK SYSTEM

This system uses the multiplex communication system, so check diagnosis system of the multiplex communication system before you proceed with troubleshooting.

Symptom	Suspect Area	See page
All the doors dead lock system does not operate.	1. MPX-B Fuse 2. DOOR DL Fuse 3. ECU-B Fuse 4. Wire Harness * 5. Double Locking ECU 6. Body ECU	BE-14 BE-14 BE-11 – BE-121 –
Only one side dead lock system does not operate (or abnormal).	1. Dead Lock Motor 2. Double Locking Switch 3. Wire Harness 4. Double Locking ECU	BE-121 BE-121 – BE-121

*: Body ECU sends a dead lock set/release signal to the dead lock ECU after it has received the wireless lock/unlock signal from the wireless receiver.

Check continuity in wire harness (communication line) between the theft deterret ECU and dead lock ECU, dead lock ECU and body ECU after checking there is no communication stop diagnosis code between Body ECU and any other ECU.

THEFT DETERRENT SYSTEM

- This system uses the multiplex communication system, so check diagnosis system of the multiplex communication system before you proceed with troubleshooting.
- Refer to DI section for warning light or indicator light not described in the table below.

Symptom	Suspect Area	See page
The system cannot be set.	1. Indicator Light 2. Key Unlock Warning Switch 3. Door Unlock Detection Switch 4. Engine Hood Courtesy Switch 5. Luggage Compartment Door Courtesy Switch 6. Wire Harness 7. Theft Deterrent ECU	BE-124 BE-23 BE-114 BE-124 BE-57 – DI-428
The system cannot be canceled when the ignition switch is turned to ON with key.	1. Key Unlock Warning Switch 2. Ignition Switch 3. RAD NO.2 Fuse 4. Wire Harness 5. Theft Deterrent ECU	BE-23 BE-23 BE-14 – DI-428
The system cannot be canceled when the luggage compartment door is unlocked with key.	1. Luggage Compartment Door Courtesy Switch 2. Wire Harness 3. Theft Deterrent ECU	BE-57 – DI-428
The system does not operate when the engine hood is opened.	1. Engine Hood Courtesy Switch 2. Wire Harness 3. Theft Deterrent ECU	BE-124 – DI-428
The system does not operate when the ignition switch is turned to ACC without using a key or transmitter.	1. Ignition Switch 2. Key Unlock Warning Switch 3. Transmitter 4. Wire Harness 5. Theft Deterrent ECU	BE-23 BE-23 BE-132 – DI-428
Some of the system does not operate. (Headlight does not light up.)	1. Headlight System 2. Wire Harness 3. Theft Deterrent ECU	BE-2 – DI-428
Some of the system does not operate. (Taillight does not light up.)	1. Taillight System 2. Wire Harness 3. Theft Deterrent ECU	BE-2 – DI-428
Some of the system does not operate. (Self power siren or Horn does not sound.)	1. HORN Fuse 2. Self Power Siren 3. Horn 4. Horn Relay 5. Wire Harness 6. Theft Deterrent ECU	BE-14 BE-124 BE-203 BE-203 – DI-428
While the warning is given, the system cannot be canceled by unlocking the door with key or transmitter.	1. Door Key Lock and Unlock Switch 2. Wire Harness 3. Theft Deterrent ECU	BE-114 – DI-428
While the warning is given, the system cannot be canceled by turning the ignition switch to ACC or ON with key.	1. Ignition Switch 2. Key Unlock Warning Switch 3. RAD NO.2 Fuse 4. ECU-IG Fuse 5. Wire Harness 6. Theft Deterrent ECU	BE-23 BE-23 BE-14 BE-14 – DI-428
The system operates for more than 30 seconds.	Theft Deterrent ECU	DI-428

WIRELESS DOOR LOCK CONTROL SYSTEM

This system uses the multiplex communication system, so check diagnosis system of the multiplex communication system before you proceed with troubleshooting.

HINT:

- Troubleshooting of the wireless door lock control system is based on the premise that the door lock control system is operating normally. Accordingly, before troubleshooting the wireless door lock control system, first make certain that the door lock control system is operating normally.
- If the trouble still reappears even though there are no abnormalities in any of the other circuits, then check and replace the Wireless Door Lock Control Receiver as the last step.

Symptom	Suspect Area	See page
All functions of wireless door lock control system do not operate.	1. Transmitter 2. Wireless Door Lock Control Receiver 3. Wire Harness 4. Body ECU	BE-132 BE-132 – DI-549

POWER SEAT CONTROL SYSTEM

Symptom	Suspect Area	See page
Driver's seat does not operate.	1. P/SEAT Fuse 2. Power Seat Switch 3. Wire Harness	BE-14 BE-146 –
"Slide operation" does not operate.	1. Power Seat Switch 2. Wire Harness 3. Slide Motor	BE-146 – BE-146
"Front Vertical Operation" does not operate.	1. Power Seat Switch 2. Wire Harness 3. Front Vertical Motor	BE-146 – BE-146
"Lifter Operation" does not operate.	1. Power Seat Switch 2. Wire Harness 3. Lifter Motor	BE-146 – BE-146
"Reclining Operation" does not operate.	1. Power Seat Switch 2. Wire Harness 3. Reclining Motor	BE-146 – BE-146

(D): Driver's Seat

(P): Passenger's Seat

POWER MIRROR CONTROL SYSTEM

This system uses the multiplex communication system, so check diagnosis system of the multiplex communication system before you proceed with troubleshooting.

Symptom	Suspect Area	See page
Both right and left mirrors do not operate.	1. Mirror Switch 2. Wire Harness	BE-152 –
Only one side of mirror does not operate.	1. Mirror Motor 2. Wire Harness	BE-152 –

SEAT HEATER SYSTEM

Symptom	Suspect Area	See page
Driver's seat heater does not operate.	1. SEAT HTR Fuse 2. Seat Heater Switch (D, P) 3. Seat Heater 4. Wire Harness	BE-14 BE-156 BE-156 –
Passenger's seat heater does not operate.	1. SEAT HTR Fuse 2. Seat Heater Switch (D, P) 3. Seat Heater 4. Wire Harness	BE-14 BE-156 BE-156 –
Seat heater temperature is too hot.	Seat Heater	BE-156

AUDIO SYSTEM

Symptom	Suspect Area	See page
Audio system abnormal operation.	TROUBLESHOOTINGS	BE-165

CLOCK SYSTEM (in A/C Control Panel)

Symptom	Suspect Area	See page
Passenger seat belt warning system does not light up.	TROUBLESHOOTING NO.1	BE-196
Clock will not operate.	TROUBLESHOOTING NO.1	BE-196
Clock loses or gains time.	TROUBLESHOOTING NO.2	BE-196

ENGINE IMMOBILIZER SYSTEM

Symptom	Suspect Area	See page
Engine immobilizer system does not operate.	See DIAGNOSIS SYSTEM	DI-504

HORN SYSTEM

Symptom	Suspect Area	See page
Horn system does not operate.	1. HORN Fuse 2. Horn Relay 3. Horn Switch 4. Horn 5. Wire Harness	BE-14 BE-203 BE-203 BE-203 –
Horns blow all the time.	1. Horn Relay 2. Horn Switch 3. Wire Harness	BE-203 BE-203 –
One horn operates but the other horn does not operate.	1. Horn 2. Wire Harness	BE-203 –
Horns operate abnormally.	1. Horn Relay 2. Horn 3. Wire Harness	BE-203 BE-203 –

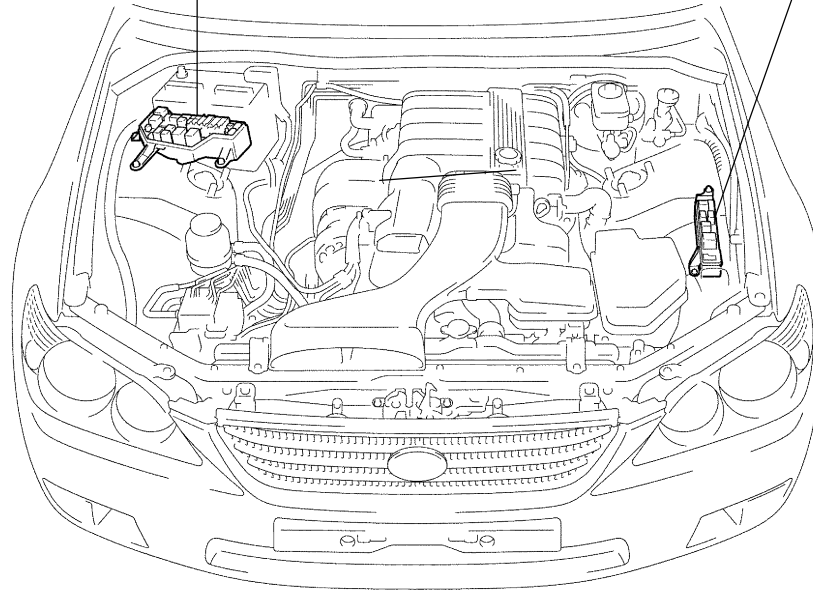
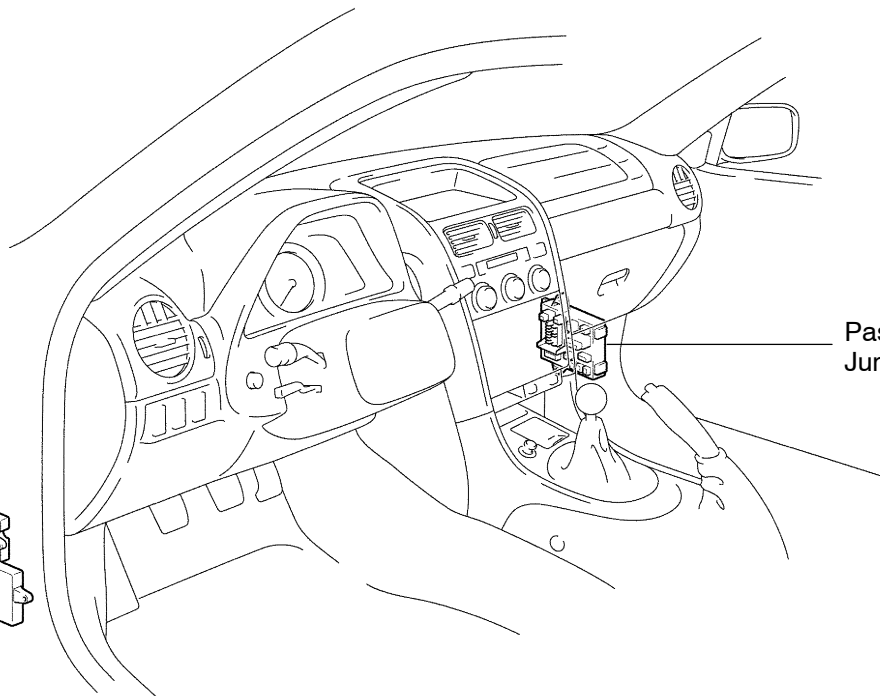
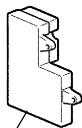
POWER SOURCE LOCATION

BE15V-01

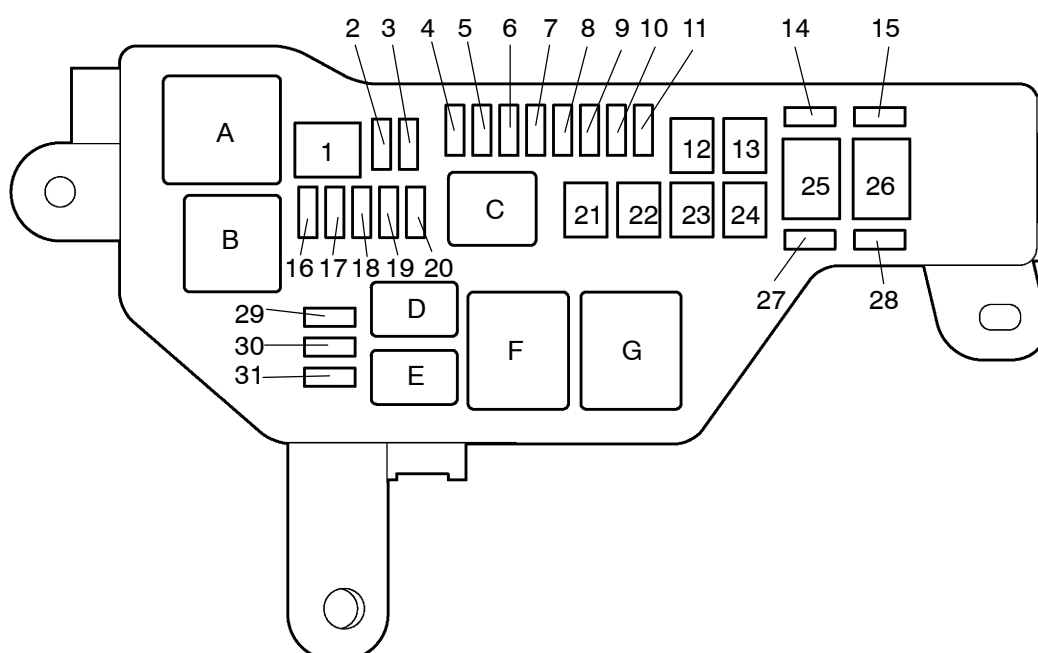
Power Source

Engine Room Junction Block

Engine Room Relay Block

Passenger Side
Junction BlockDriver Side
Junction Block

● Engine Room Junction Block
LHD Models



Fuses

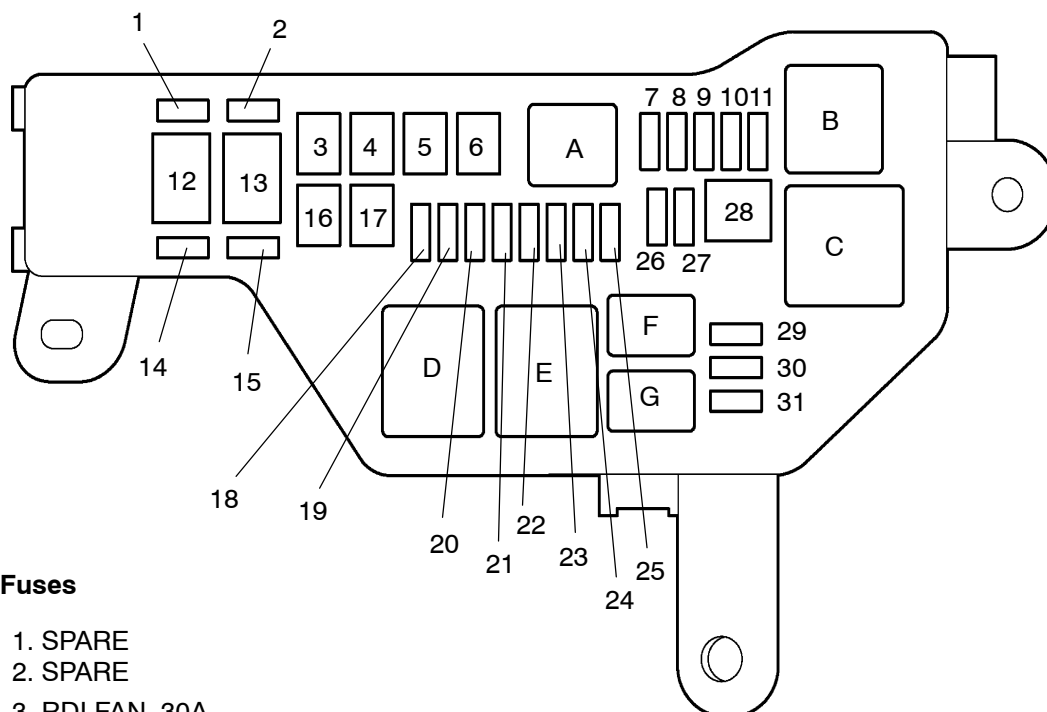
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2. TEL 7.5A
3. -
4. ECU-B1 20A
5. ETCS 15A
6. HORN 10A
7. RADIO1 20A
8. EFI 15A
9. AM2 20A
10. TURN 10A
11. ALT-S 5A
12. -
13. HEAD CLNER 30A
14. SPARE
15. SPARE
16. -
17. HEAD LVL 10A
18. HEAD LH-LWR 10A
19. HEAD RH-LWR 10A
20. -
21. -
22. -
23. CDS FAN 30A
24. RDI FAN 30A
25. ALT 120A
26. ABS 60A
27. SPARE
28. SPARE
29. HEAD LH-UPR 10A
30. HEAD RH-UPR 10A
31. DRL 7.5A

Relays

- A. Headlight Control Relay
- B. Starter relay
- C. EFI Main Relay
- D. Circuit Opening Relay
- E. Horn Relay
- F. ABS MTR Relay
- G. ABS SOL Relay

N

● Engine Room Junction Block
RHD Models

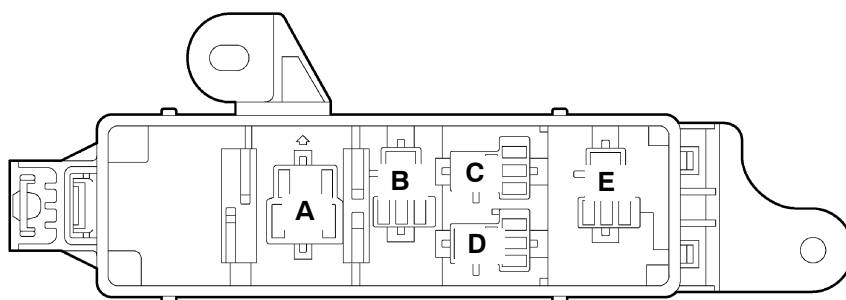


Fuses

- | | |
|---|--|
| 1. SPARE | |
| 2. SPARE | |
| 3. RDI FAN 30A | |
| 4. CDS FAN 30A | |
| 5. - | |
| 6. - | |
| 7. - | |
| 8. H-LP R LWR 10A (Europe RHD models)
H-LP RH 15A (Australia models) | 26. - |
| 9. H-LP L LWR 10A (Europe RHD models)
H-LP LH 15A (Australia models) | 27. ECU-B1 20A |
| | 28. MAIN 40A |
| | 29. - |
| | 30. H-LP R UPR 10A (Europe RHD models) |
| | 31. H-LP L UPR 10A (Europe RHD models) |
| 10. H-LP LVL 10A | |
| 11. - | |
| 12. ABS 60A | |
| 13. ALT 120A | |
| 14. - | |
| 15. SPARE | |
| 16. H-LP CLN 30A (Europe RHD models) | |
| 17. - | |
| 18. EFI 20A | |
| 19. TURN-HAZ 10A | |
| 20. RADIO NO.1 20A | |
| 21. TEL 7.5A | |
| 22. HORN 10A | |
| 23. AM2 20A | |
| 24. ETCS 15A | |
| 25. ALT-S 7.5A | |

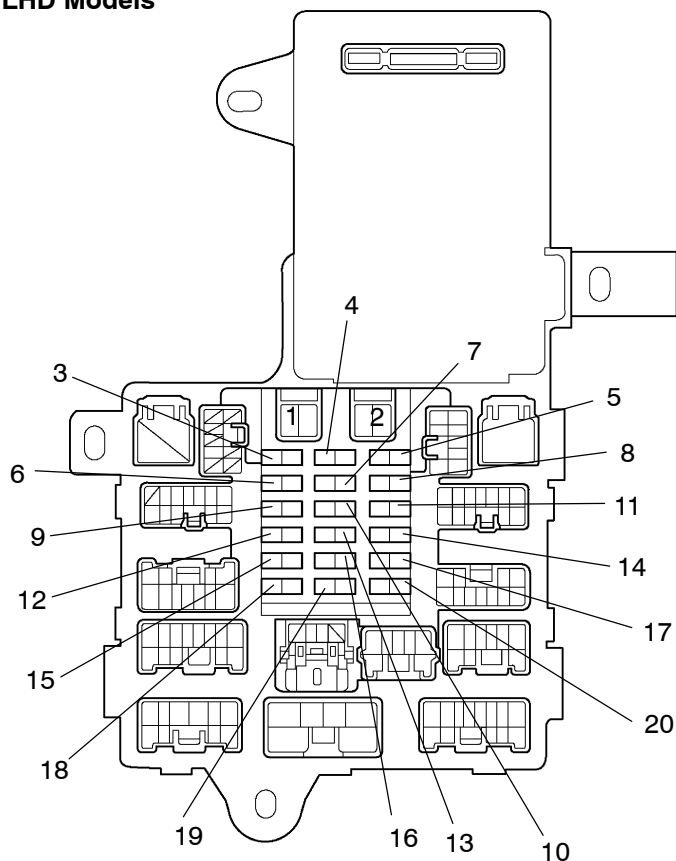
Relays

- A. Circuit Opening Relay
- B. Starter Relay
- C. Headlight Control Relay
- D. ABS SOL Relay
- E. ABS MTR Relay
- F. Horn Relay
- G. EFI Relay

● Engine Room Relay Block**Relays**

- A. Headlight Dimmer Relay
- B. A/C Compressor Relay
- C. FAN NO.3 Relay
- D. FAN NO.2 Relay
- E. FAN NO.1 Relay

● Driver Side Junction Block
LHD Models



Fuses

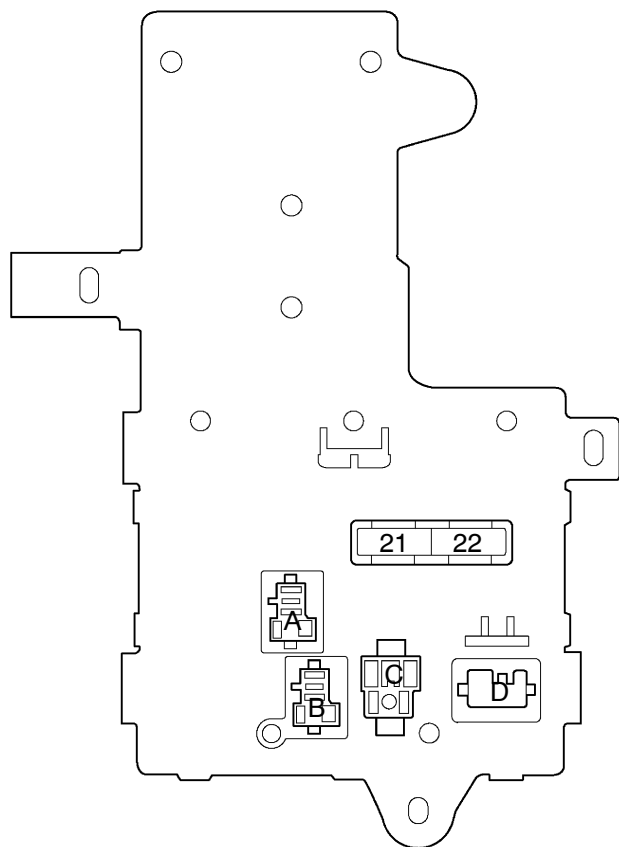
1. DEF 30A
2. AM1 40A
3. P/W 20A
4. TAIL 10A
5. GAUGE 10A
6. D/L 20A
7. PANEL 7.5A
8. WSH 15A
9. ST 7.5A
10. FR DEF 20A
11. A/C 10A
12. S/HTR 15A
13. CIG 15A
14. S/R 30A
15. ECU-IG 10A
16. SRS-ACC 10A
17. STOP 15A
18. WIP 25A
19. RADIO2 10A
20. D P/SEAT 30A

Condenser

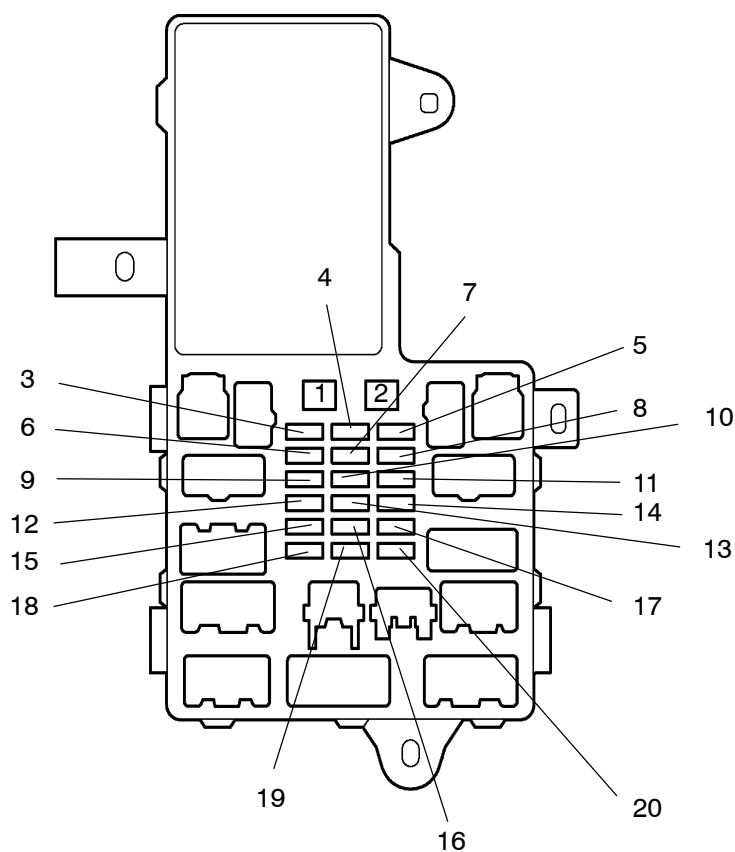
21. DEF CDS
22. DEF CDS

Relays

- A. Deicer Relay
- B. Taillight Control Relay
- C. Rear Window Defogger Relay
- D. Turn Signal Flasher Relay



● Driver Side Junction Block
RHD Models

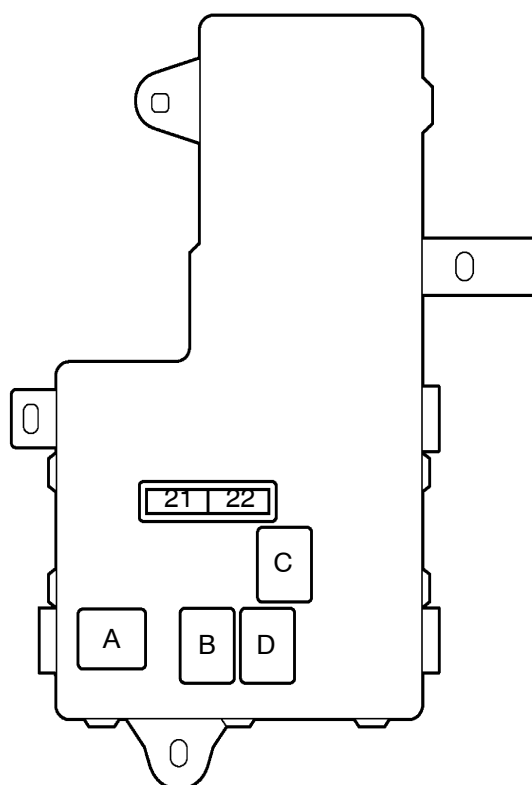


Fuses

1. AM1	40A
2. DEF	30A
3. PANEL	7.5A
4. D/L	20A
5. ECU-IG	10A
6. TAIL	10A
7. FR DEF	20A
8. GAUGE	10A
9. S/R	30A
10. P/W	20A
11. WIP	25A
12. STOP	15A
13. WSH	15A
14. A/C	10A
15. D P/SEAT	30A
16. CIG	15A
17. RADIO2	10A
18. ST	7.5A
19. SRS ACC	10A
20. S/HTR	15A

Condenser

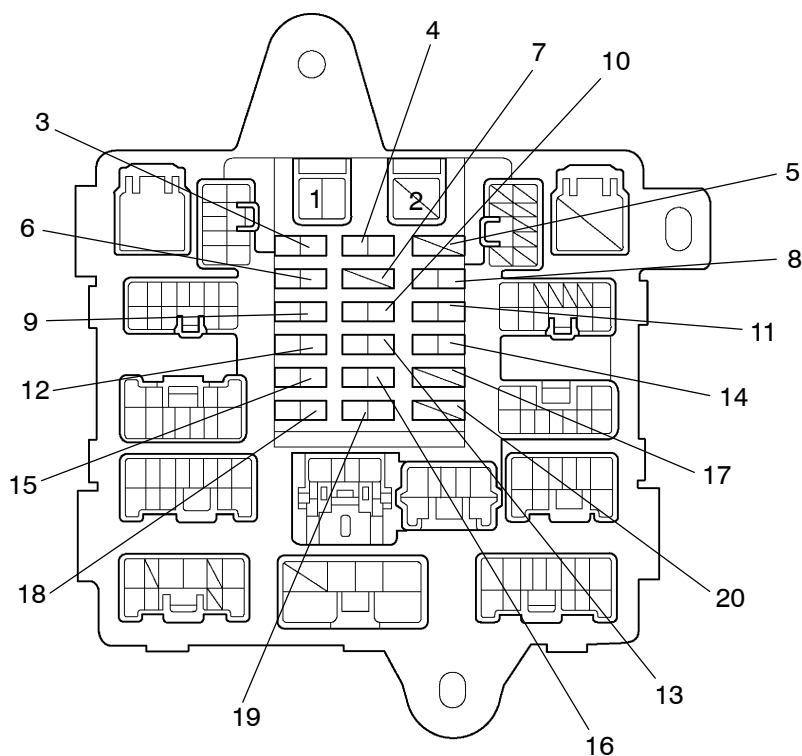
21. DEF CDS
22. DEF CDS



Relays

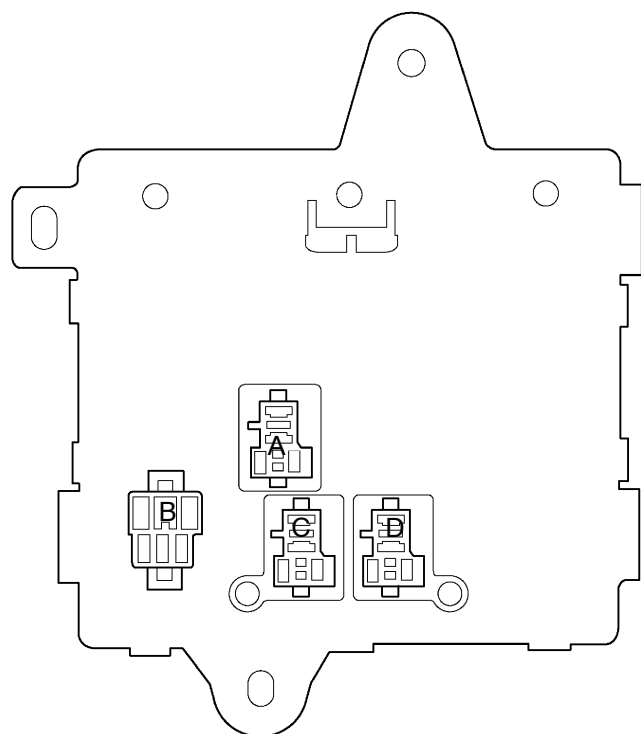
- A. Turn Signal Flasher Relay
- B. Rear Window Defogger Relay
- C. Taillight Control Relay
- D. Deicer Relay

● Passenger Side Junction Block
LHD Models



Fuses

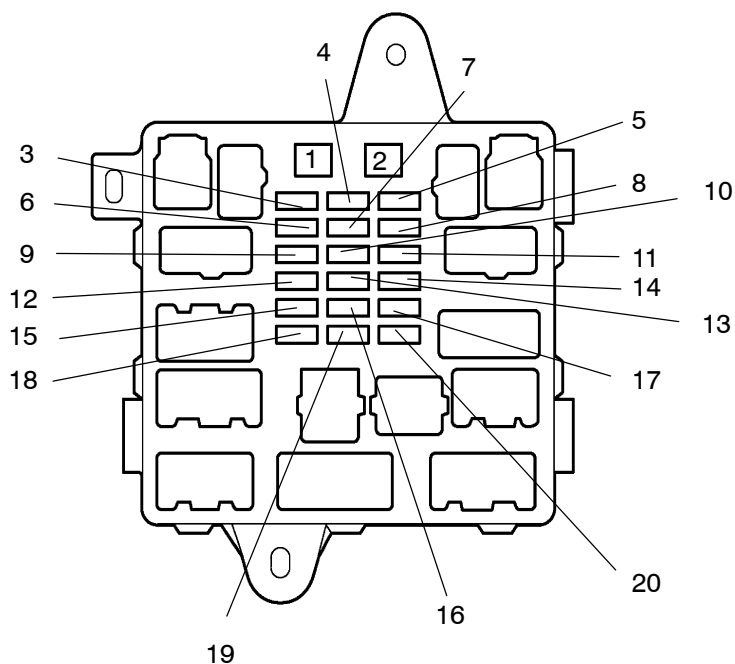
1. FL HTR 40A
2. -
3. -
4. DOME 7.5A
5. -
6. FR FOG 15A
7. -
8. P/W2 20A
9. TV 7.5A
10. ECU-B2 7.5A
11. P/W3 20A
12. MIR HIR 15A
13. MPX-B 10A
14. P/W4 20A
15. SRS-B 7.5A
16. -
17. -
18. OBD2 7.5A
19. IGN 7.5A
20. -



Relays

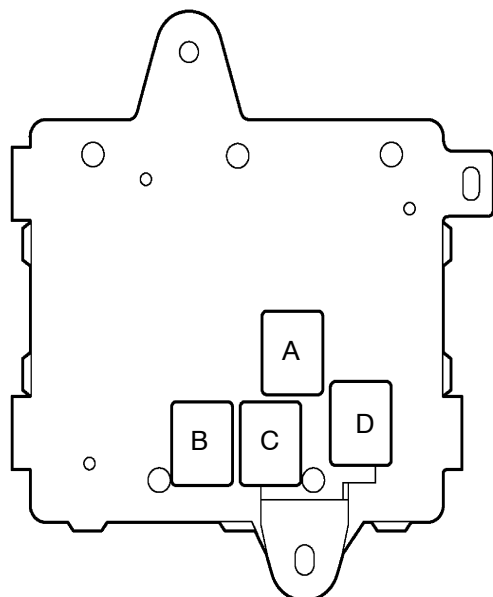
- A. Front Fog Light Relay
- B. Heater Main Relay
- C. Mirror Heater Relay
- D. Power Window Main Relay

● Passenger Side Junction Block
RHD Models



Fuses

1. -	
2. FL HTR	40A
3. P/W2	20A
4. IGN	7.5A
5. DOOR DL	15A
6. P/W3	20A
7. -	
8. TV	7.5A
9. -	
10. DOME	7.5A
11. FR FOG	15A
12. P/W4	20A
13. -	
14. MIR HTR	15A
15. -	
16. MPX-B	10A
17. SRS-B	7.5A
18. -	
19. ECU-B2	7.5A
20. OBD2	7.5A

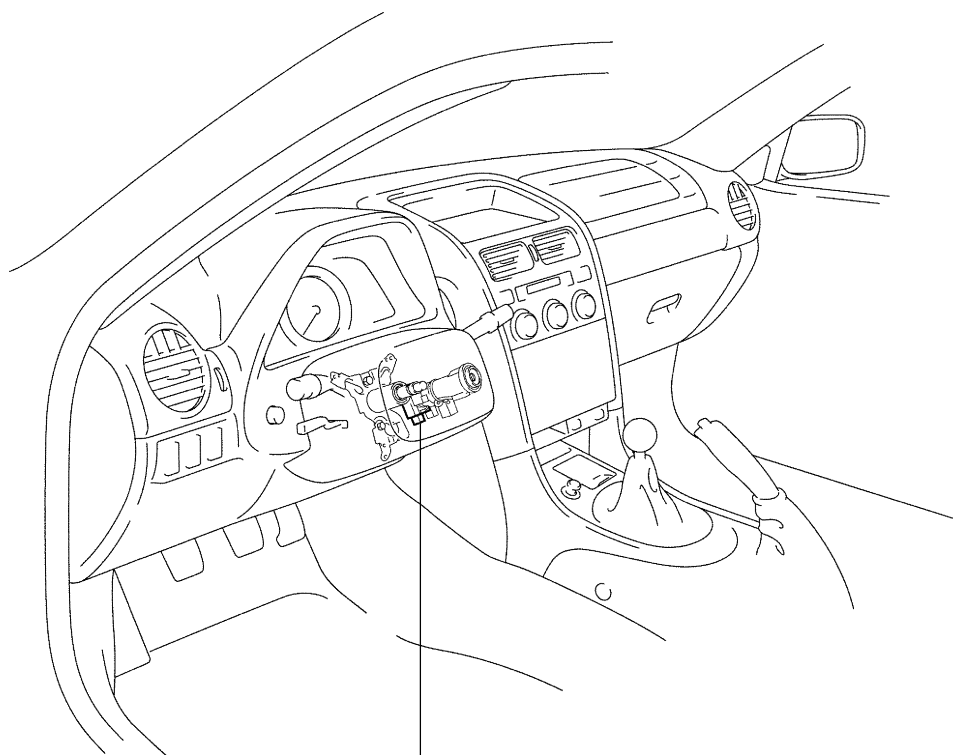


Relays

- A. Front Fog Light Relay
- B. Power Window Main Relay
- C. Mirror Heater Relay
- D. Heater Main Relay

IGNITION SWITCH AND KEY UNLOCK WARNING SWITCH LOCATION

BE01L-10

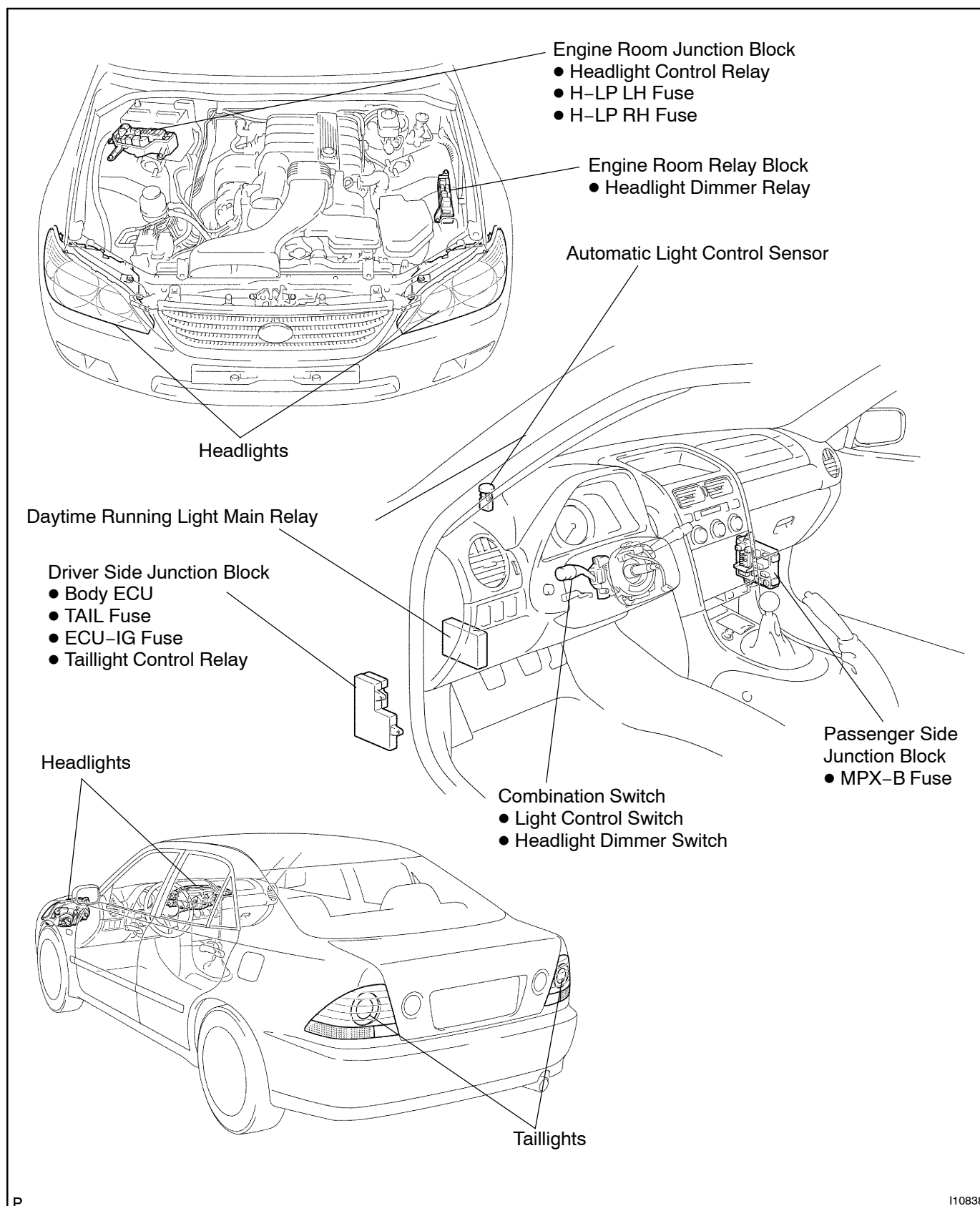


Ignition Switch and
Key Unlock Warning Switch

HEADLIGHT AND TAILLIGHT SYSTEM

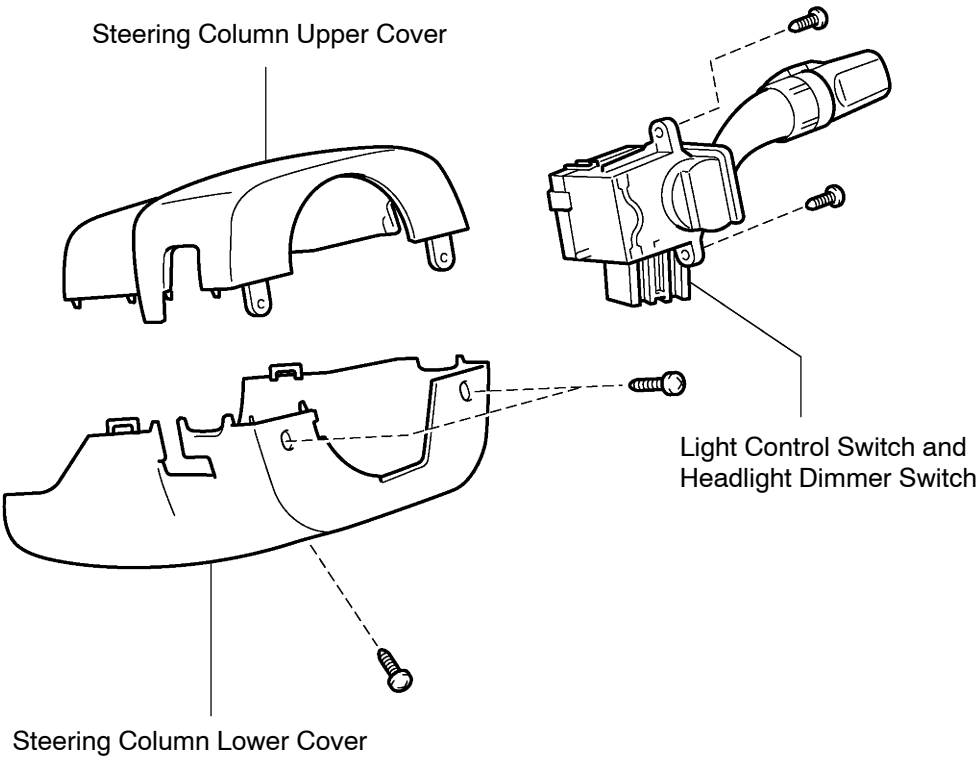
LOCATION

BE0H8-06

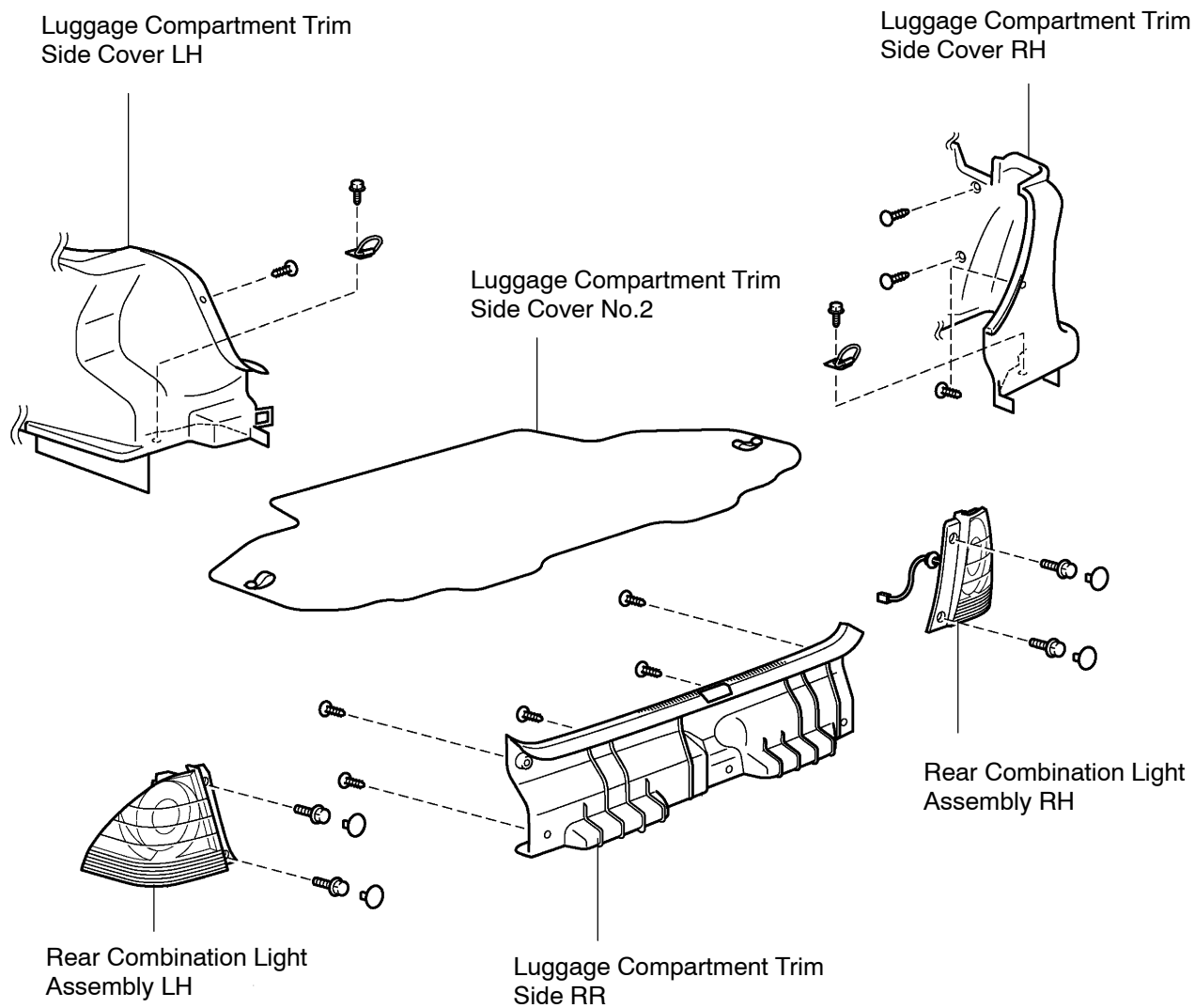


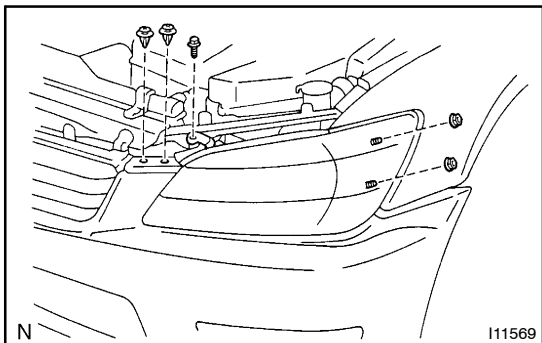
COMPONENTS

Reference RHD models



H





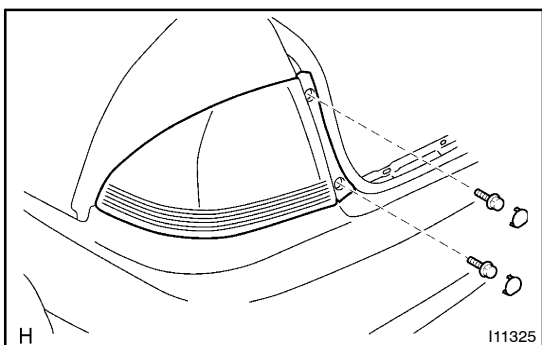
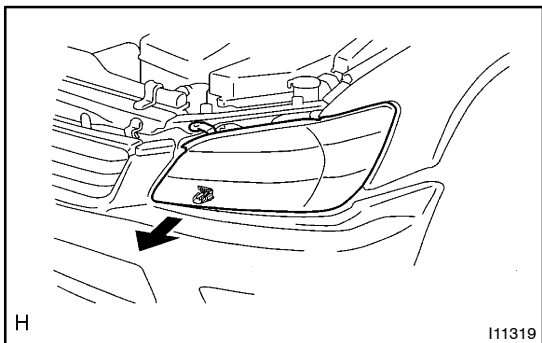
REMOVAL

1. REMOVE HEADLIGHT

HINT:

Follow the same procedure for RH as for LH.

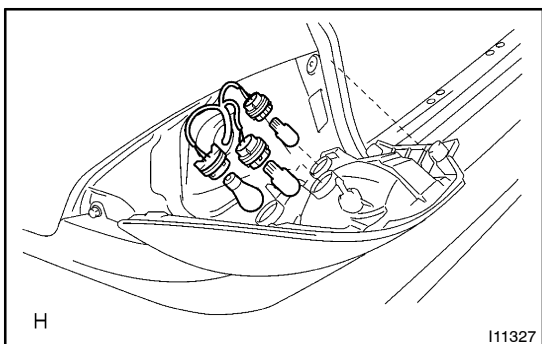
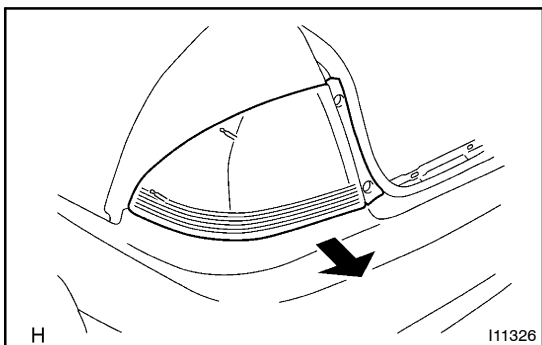
- (a) Remove a part of LH front fender liner.
- (b) Remove a part of front bumper cover
(See [page BO-4](#)).
- (c) Remove the bolt, 2 nuts and 2 clips.
- (d) Lift up the front bumper and pull the headlight assembly towards the front of the vehicle, and disconnect the engagement of the headlight assembly.
- (e) Install LH headlight assembly.
- (f) Install a part of front bumper cover.
- (g) Install a part of front fender liner.
- (h) Inspect and adjust optical axis of headlight
(See [page BE-39](#)).



2. REMOVE REAR COMBINATION LIGHT

HINT:

- Installation is in the reverse order of removal. Only if there is a specified procedure for installation it is shown.
 - Follow the same procedure for RH as for LH.
- (a) Remove luggage compartment trim cover No.2
(See [page BO-40](#)).
 - (b) Remove luggage compartment trim cover RR.
 - (c) Remove a part of LH luggage compartment trim side cover.
 - (d) Remove the 2 rear light covers and 2 bolts.
 - (e) Pull the pin toward the rear of the vehicle, and disconnect the engagement of 2 pins.
 - (f) From the inside of the luggage room, separate the connector and disconnect the LH rear combination light assembly.



3. REMOVE REAR COMBINATION BULB

HINT:

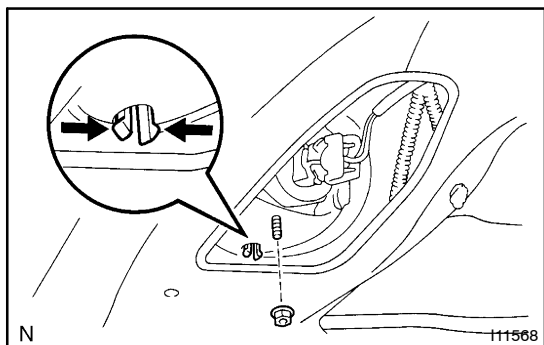
- Installation is in the reverse order of removal. Only if there is a specified procedure for installation it is shown.
- Follow the same procedure for RH as for LH.

- (a) Remove a part of LH combination light assembly.

HINT:

Remove the light unit from only the outside of the vehicle.

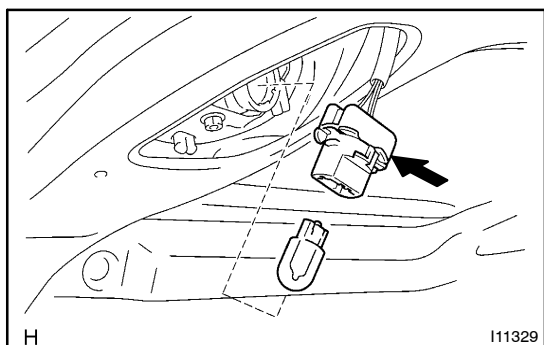
- (b) Remove the bulb sockets and remove the bulbs.



4. REMOVE REAR LAMP ASSEMBLY

HINT:

- Installation is in the reverse order of removal. Only if there is a specified procedure for installation it is shown.
 - Follow the same procedure for RH as for LH.
- (a) Remove a part of luggage compartment door trim.
 - (b) Remove the nut.
 - (c) Compress the claw to disconnect the engagement as shown in the illustration.
 - (d) Separate the connector and remove the rear light assembly.

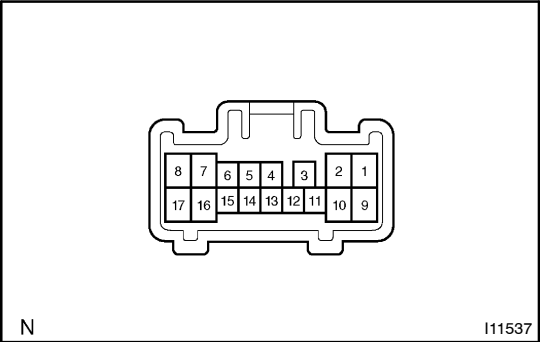


5. REMOVE REAR LAMP BULB

HINT:

Installation is in the reverse order of removal. Only if there is a specified procedure for installation it is shown.

- (a) Remove a part of luggage compartment door trim.
- (b) Remove the bulb socket and bulb.



INSPECTION

1. LHD models:
INSPECT LIGHT CONTROL SWITCH CONTINUITY

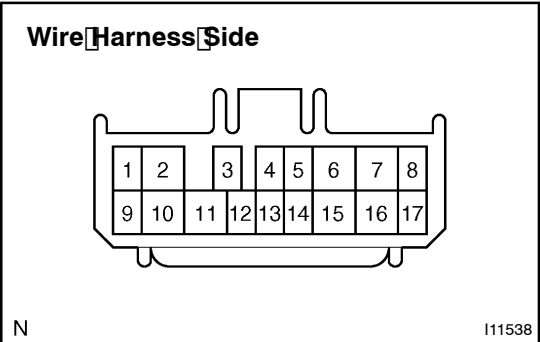
Switch position	Tester connection	Specified condition
OFF	-	No continuity
TAIL	14 - 16	Continuity
HEAD	13 - 4 - 16	Continuity
AUTO	13 - 16	Continuity

If continuity is not as specified, replace the switch.

2. LHD models:
INSPECT HEADLIGHT DIMMER SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
Low beam	16 - 17	Continuity
High beam	7 - 16	Continuity
Flash	7 - 8 - 16	Continuity

If continuity is not as specified, replace the switch.

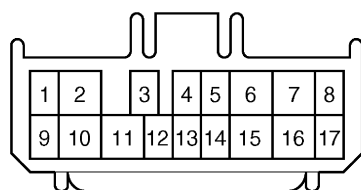


3. LHD models:
INSPECT LIGHT CONTROL SWITCH CIRCUIT
Connector disconnected:
(See page DI-453)

Disconnect the connector from the switch and inspect the connector on the wire harness side, as shown.

Tester connection	Condition	Specified condition
16 - Ground	Constant	Continuity

If circuit is not as specified, inspect the wire harness.

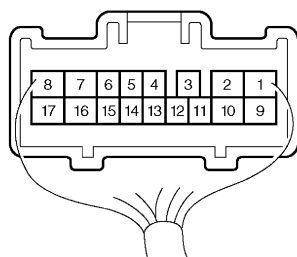
Wire Harness Side

4. LHD models:
INSPECT HEADLIGHT DIMMER SWITCH CIRCUIT
Connector disconnected:
(See page DI-453)

Disconnect the connector from the switch and inspect the connector on the wire harness side, as shown.

Tester connection	Condition	Specified condition
16 – Ground	Constant	Continuity
13 – Ground	Light control switch HEAD	Battery voltage

If circuit is not as specified, inspect the wire harness.

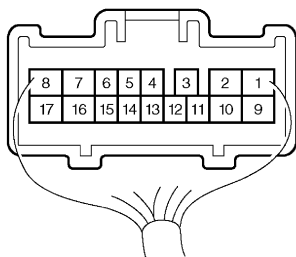
From Back Side

5. LHD models:
INSPECT LIGHT CONTROL SWITCH CIRCUIT
Connector connected:

Connect the wire harness side connector to the light control and dimmer switch and inspect the connector from the back side, as shown.

Tester connection	Condition	Specified condition
12 – Ground	Light control switch OFF, TAIL or HEAD	Battery voltage
12 – Ground	Light control switch AUTO	No voltage
13 – Ground	Light control switch OFF or TAIL	Battery voltage
13 – Ground	Light control switch HEAD	No voltage
14 – Ground	Light control switch OFF	Battery voltage
14 – Ground	Light control switch TAIL or HEAD	No voltage

If circuit is not as specified, inspect the wire harness.

From Back Side

N

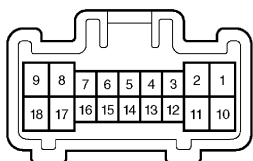
I11540

6. LHD models:**INSPECT HEADLIGHT DIMMER SWITCH CIRCUIT****Connector connected:**

Connect the wire harness side connector to the light control and dimmer switch and inspect the connector from the back side, as shown.

Tester connection	Condition	Specified condition
7 – Ground	Headlight dimmer switch FLASH Light control switch HEAD and dimmer switch HIGH	No voltage
7 – Ground	Light control switch HEAD and dimmer switch LOW	Battery voltage
17 – Ground	Light control switch HEAD and dimmer switch LOW and fog light switch ON	No voltage
17 – Ground	Light control switch HEAD and dimmer switch HIGH or FLASH and fog light switch ON	Battery voltage

If circuit is not as specified, inspect the wire harness.



N

I11539

7. Europe RHD Models:**INSPECT LIGHT CONTROL SWITCH CONTINUITY**

Switch position	Tester connection	Specified condition
OFF	–	No continuity
TAIL	14 – 16	Continuity
HEAD	13 – 14 – 16	Continuity
AUTO	13 – 16	Continuity

If continuity is not as specified, replace the switch.

8. Europe RHD Models:**INSPECT HEADLIGHT DIMMER SWITCH CONTINUITY**

Switch position	Tester connection	Specified condition
Low beam	16 – 17	Continuity
High beam	7 – 16	Continuity
Flash	7 – 8 – 16	Continuity

If continuity is not as specified, replace the switch.

9. Australia RHD Models:
INSPECT LIGHT CONTROL SWITCH CONTINUITY

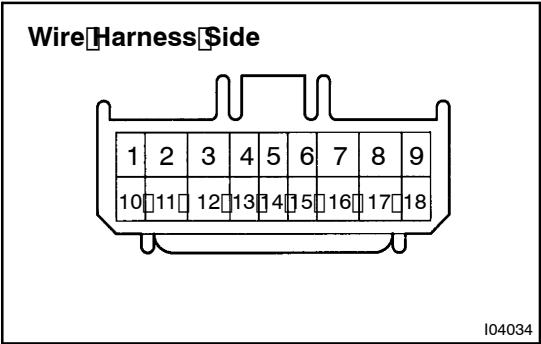
Switch position	Tester connection	Specified condition
OFF	-	No continuity
TAIL	16 - 17	Continuity
HEAD	15 - 16 - 17	Continuity
AUTO	14 - 17	Continuity

If continuity is not as specified, replace the switch.

10. Australia RHD Models:
INSPECT HEADLIGHT DIMMER SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
Low beam	10 - 11	Continuity
High beam	2 - 10	Continuity
Flash	1 - 2 - 10	Continuity

If continuity is not as specified, replace the switch.

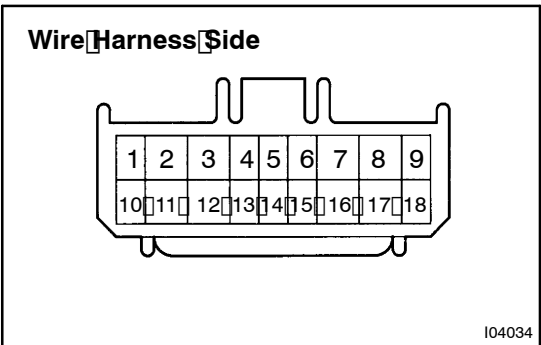


11. RHD Models:
INSPECT LIGHT CONTROL SWITCH CIRCUIT
Connector disconnected:
(See page DI-453)

Disconnect the connector from the switch and inspect the connector on the wire harness side, as shown.

Tester connection	Condition	Specified condition
17 - Ground (Australia) 16 - Ground (Europe)	Constant	Continuity

If circuit is not as specified, inspect the wire harness.

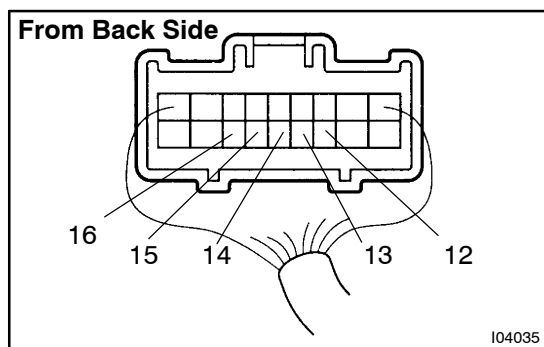


12. RHD Models:
INSPECT HEADLIGHT DIMMER SWITCH CIRCUIT
Connector disconnected:
(See page DI-453)

Disconnect the connector from the switch and inspect the connector on the wire harness side, as shown.

Tester connection	Condition	Specified condition
17 Ground (Australia) 16 Ground (Europe)	Constant	Continuity
15 Ground (Australia) 13 Ground (Europe)	Light control switch HEAD	Battery voltage

If circuit is not as specified, inspect the wire harness.

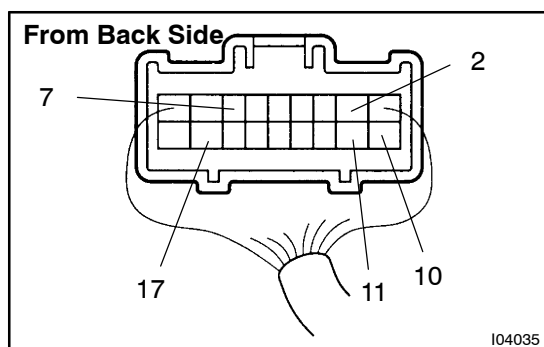


**13. RHD Models:
INSPECT LIGHT CONTROL SWITCH CIRCUIT
Connector connected:**

Connect the wire harness side connector to the light control and dimmer switch and inspect the connector from the back side, as shown.

Tester connection	Condition	Specified condition
14 – Ground (Australia) 12 – Ground (Europe)	Light control switch OFF, TAIL or HEAD	Battery voltage
14 – Ground (Australia) 12 – Ground (Europe)	Light control switch AUTO	No voltage
15 – Ground (Australia) 13 – Ground (Europe)	Light control switch OFF or TAIL	Battery voltage
15 – Ground (Australia) 13 – Ground (Europe)	Light control switch HEAD	No voltage
16 – Ground (Australia) 14 – Ground (Europe)	Light control switch OFF	Battery voltage
16 – Ground (Australia) 14 – Ground (Europe)	Light control switch TAIL or HEAD	No voltage

If circuit is not as specified, inspect the wire harness.



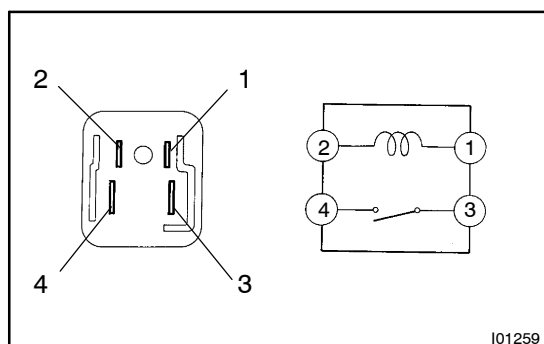
**14. RHD Models:
INSPECT HEADLIGHT DIMMER SWITCH CIRCUIT
Connector connected:**

Connect the wire harness side connector to the light control and dimmer switch and inspect the connector from the back side, as shown.

BODY ELECTRICAL - HEADLIGHT AND TAILLIGHT SYSTEM

Tester Connection	Condition	Specified Condition
2 - Ground (Australia) 7 - Ground (Europe)	Headlight dimmer switch FLASH Light control switch HEAD and dimmer switch HIGH	No voltage
2 - Ground (Australia) 7 - Ground (Europe)	Light control switch HEAD and dimmer switch LOW	Battery voltage
11 - Ground (Australia) 17 - Ground (Europe)	Light control switch HEAD and dimmer switch LOW and fog light switch ON	No voltage
11 - Ground (Australia) 17 - Ground (Europe)	Light control switch HEAD and dimmer switch HIGH or FLASH and fog light switch ON	Battery voltage

If circuit is not as specified, inspect the wire harness.

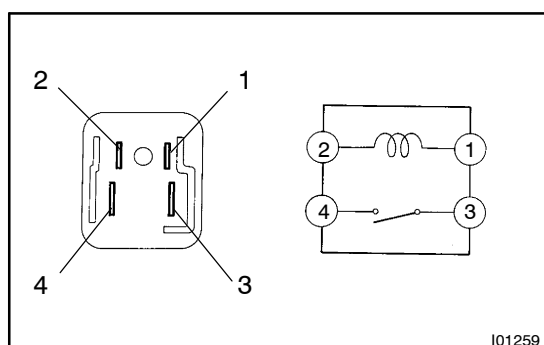


15. INSPECT HEADLIGHT CONTROL RELAY CONTINUITY

Condition	Tester Connection	Specified Condition
Constant	1 - 2	Continuity
Apply B+ between terminals 3 and 4.	3 - 4	Continuity

If continuity is not as specified, replace the relay.

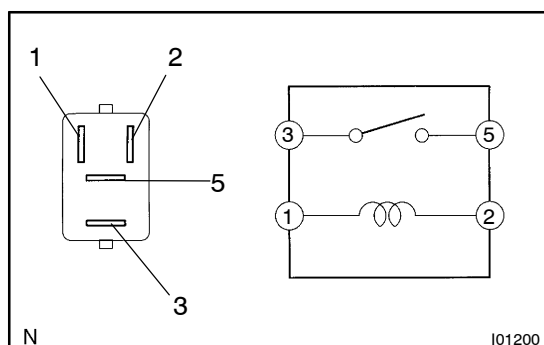
16. INSPECT HEADLIGHT CONTROL RELAY CIRCUIT (See page DI-459)



17. INSPECT HEADLIGHT DIMMER (DAYTIME RUNNING LIGHT NO.2) RELAY CONTINUITY

Condition	Tester Connection	Specified Condition
Constant	1 - 2	Continuity
Apply B+ between terminals 1 and 2.	3 - 4	Continuity

If continuity is not as specified, replace the relay.

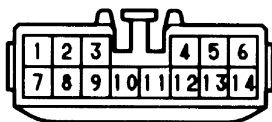


18. INSPECT TAILLIGHT CONTROL RELAY CONTINUITY

Condition	Tester connection	Specified condition
Constant	1 - 2	Continuity
Apply B+ between terminals 1 and 2.	3 - 5	Continuity

If continuity is not as specified, replace the relay.

19. INSPECT TAILLIGHT CONTROL RELAY CIRCUIT (See page DI-572)

Wire Harness Side

h-10-1-A

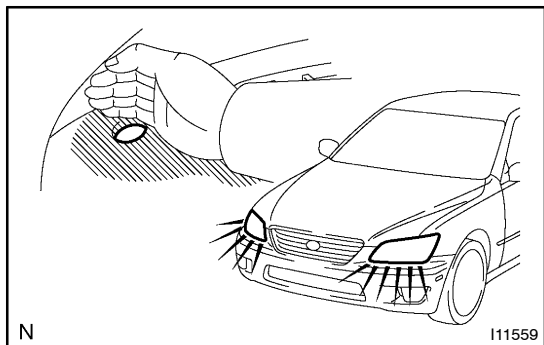
I01326

20. LHD models:**INSPECT DAYTIME RUNNING LIGHT MAIN RELAY CIRCUIT**

Disconnect the connector from the relay and inspect the connector on the wire harness side.

Tester connection	Condition	Specified condition
2 – Ground	Light control switch OFF	No continuity
2 – Ground	Light control switch TAIL or HEAD	Continuity
4 – Ground	Light control switch OFF or TAIL	No continuity
4 – Ground	Light control switch HEAD	Continuity
6 – Ground	Headlight dimmer switch FLASH	Continuity
8 – Ground	Engine running	Battery voltage
7 – Ground	Constant	Continuity
10 – Ground	Constant	Continuity
13 – Ground	Headlight dimmer switch FLASH or HI	Continuity
12 – Ground	Constant	Battery voltage
1 – Ground	Ignition switch OFF	No voltage
1 – Ground	Ignition switch ON	Battery voltage
9 – Ground	Terminal 3 ground	Battery voltage
11 – Ground	Rear fog light switch ON, terminal 3 ground	Battery voltage
5 – Ground	Constant	Battery voltage
14 – Ground	Terminal 5 ground	Battery voltage

If circuit is specified, try replacing the relay with a new one.
If circuit is not as specified, inspect the circuits connected to other parts.

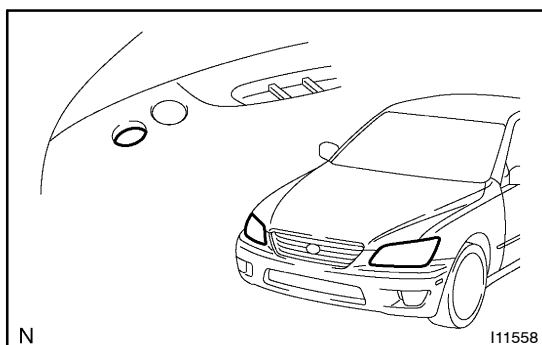


N

I11559

21. INSPECT AUTOMATIC LIGHT CONTROL SYSTEM**Auto on function:**

- Turn the ignition switch ON.
- Turn the light control switch to AUTO.
- Gradually cover the top of the sensor.
- Check the accessory lights and the headlights should turn ON.

**22. INSPECT AUTOMATIC LIGHT CONTROL SYSTEM****Auto off function:**

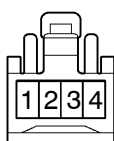
- (a) Gradually expose the sensor.
- (b) Check the headlights and the accessory lights should turn OFF.

23. INSPECT LIGHT-OFF CONDITION

- (a) Turn the ignition switch ON.
- (b) Gradually cover the top of the sensor.
Lights auto ON:
- (c) Check that the lights go off under the following conditions.
 - (1) Light control switch is OFF.
 - (2) The area surrounding the sensor gets bright.
 - (3) The driver's door is opened with the ignition switch OFF.

24. INSPECT LIGHTS-ON CONDITION

- (a) Open the driver's door while the ignition switch is OFF.
- (b) Turn the light control switch to AUTO leaving the door open and cover the top of the sensor, and verify that the lights go on when the ignition switch is turned ON.

Wire Harness Side

I01254

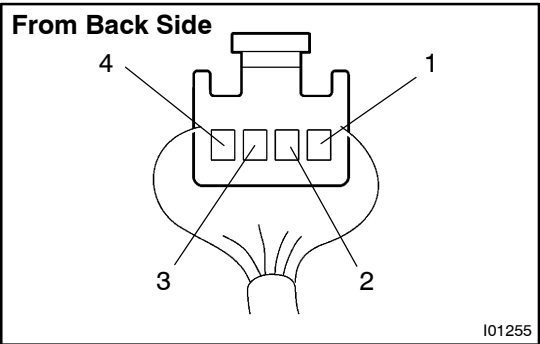
25. INSPECT AUTOMATIC LIGHT CONTROL SENSOR CIRCUIT**Connector disconnected:**

Disconnect the connector from the sensor and inspect the connector on the wire harness side, as shown in the table.

Tester connection	Condition	Specified condition
3 – Ground	Constant	Continuity
1 – Ground	Ignition switch LOCK or ACC	No voltage
1 – Ground	Ignition switch ON	Battery voltage
4 – Ground	Ignition switch LOCK or ACC	No voltage
4 – Ground	Ignition switch ON	5.2 – 9.0 V

If circuit is as specified, perform the inspection on the following page.

If the circuit is not as specified, inspect the circuit connected to other parts.



26. INSPECT AUTOMATIC LIGHT CONTROL SENSOR CIRCUIT

Connector connected

Connect the wire harness side connector to the sensor and inspect wire harness side connector from the back side, as shown.

HINT:

- Ignition switch ON.
- Light control switch AUTO.
- Vehicle’s surroundings are bright.

Tester connection	Condition	Specified condition
3 – Ground	Constant	Continuity
1 – Ground	Ignition switch LOCK or ACC	No voltage
1 – Ground	Ignition switch ON	9.5 V or more
Vehicle is under the direct sun light. (Sensor is not covered)		Taillight and Headlight are ON.

If circuit is as specified, try replacing the sensor with a new one.
If the circuit is not as specified, inspect the circuit connected to other parts.

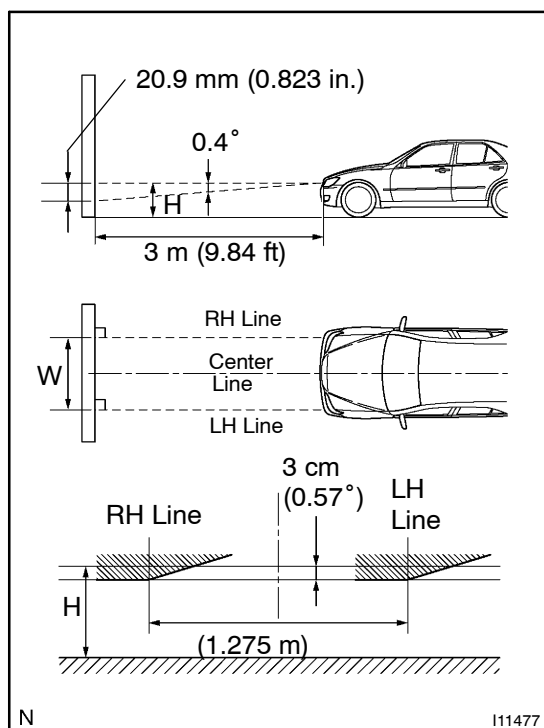
ADJUSTMENT

1. REPLACE HEADLIGHT

- (a) Replace the headlight.
- (b) Inspect the headlight aiming.

Do the following items before inspection.

- Make sure the body around the headlight is not deformed.
- Park the vehicle on a level spot.
- The driver gets into the driver's seat and puts the vehicle in a state ready for driving (with a full tank).
- Bounce the vehicle several times.



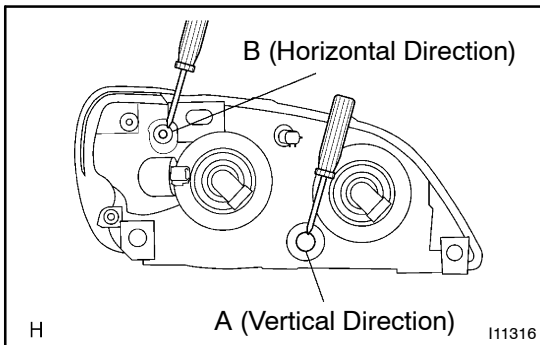
- (c) Check the headlight aiming.
 - (1) Prepare the thick white colored paper.
 - (2) Stand the paper perpendicularly and ensure the distance from it to the head lights is 9.84 ft.
 - (3) Ensure that the center line of vehicle and the paper are at a 90 degree angle as shown in the illustration.
 - (4) Engine running.
 - (5) Draw a horizontal line on the paper where the head lights of the vehicle are to be.
 - (6) Draw a vertical line on the paper where the center line of the vehicle is to be. (V line)
 - (7) Take an appropriate measure to avoid affecting the other light.

NOTICE:

- **Disconnect the connector of the other light to avoid heat affection from the light because the outer lens of the head light assembly is made of synthetic resin. When connecting the connector again take care not to wake the aiming out of adjustment.**
- **When covering the headlight, finish it within 3 minutes.**
 - (8) Turn the head lights ON.
 - (9) Check that the head lights light up the paper as shown in the illustration.
 - (10) When the paper is not lighted up properly, adjust the lights in the vertical or horizontal direction.

HINT:

As shown in the illustration, adjust aiming of the LH and RH lights along each vertical line respectively.



- (d) Vertical Alignment:
Adjust the headlight aiming.
Using adjustment bolt A, adjust the headlight aiming to within the specifications.
- (e) Horizontal Alignment:
Adjust the headlight aiming.
Using adjustment bolt B, adjust the headlight aiming to within the specifications.

HINT:

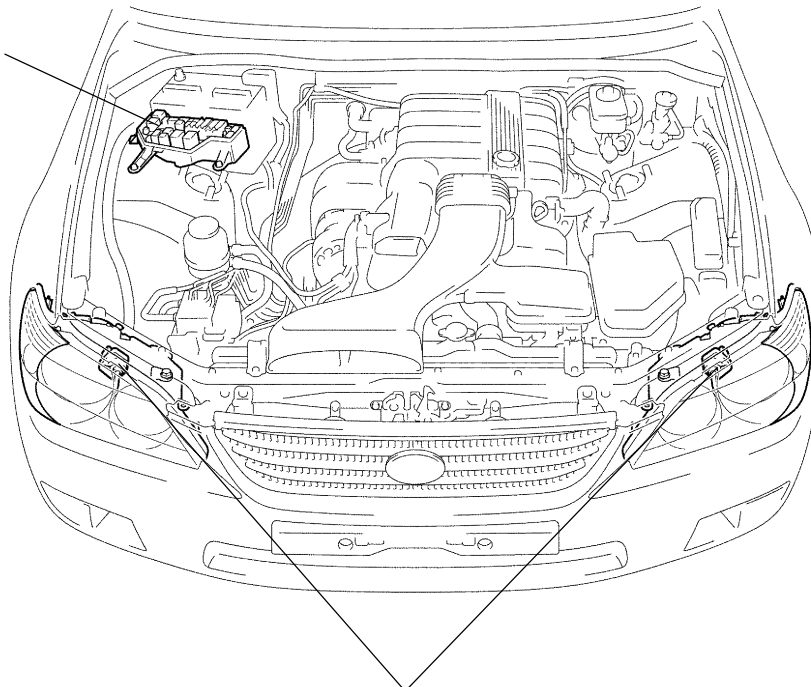
After adjusting the headlight in vertical direction, check that the light has been shifted from the adjusted position in the horizontal direction.

HEADLIGHT BEAM LEVEL CONTROL SYSTEM

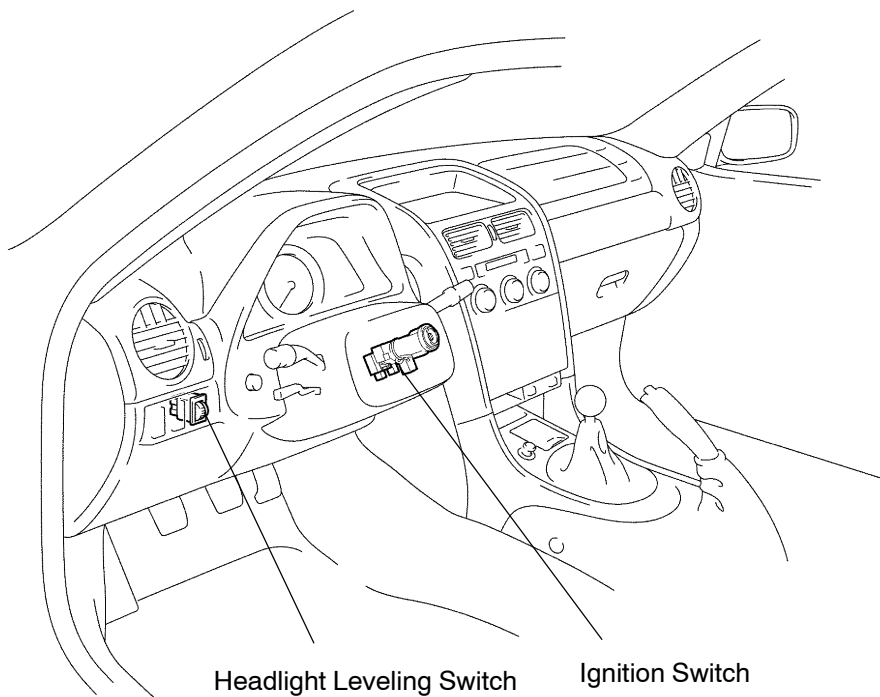
LOCATION

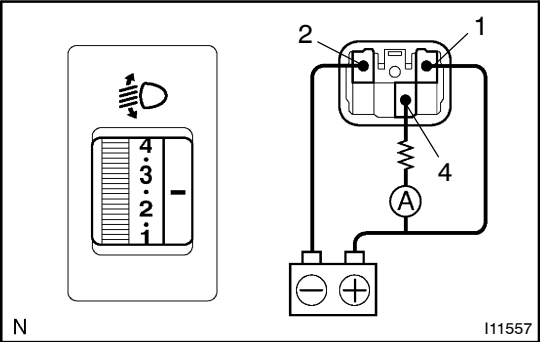
BE01R-05

Engine Room J/B
● H-LP LVL Fuse



Headlight Leveling Actuator





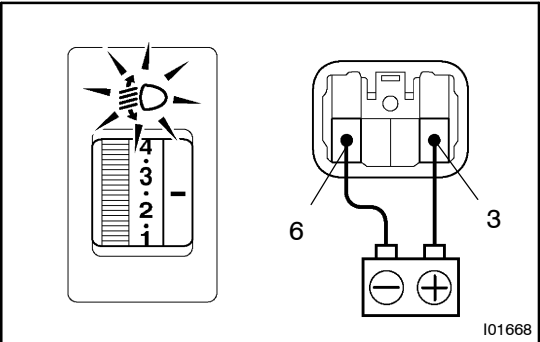
INSPECTION

1. INSPECT HEADLIGHT BEAM LEVEL CONTROL SWITCH

- (a) Connect the positive (+) lead from the battery to terminal 1 and negative (-) lead to terminal 2.
- (b) Measure the ammpere terminal 4.

Switch position	Ampere (A)
0	8
1	7.2
2	6.39
3	5.59
4	4.78
5	3.98

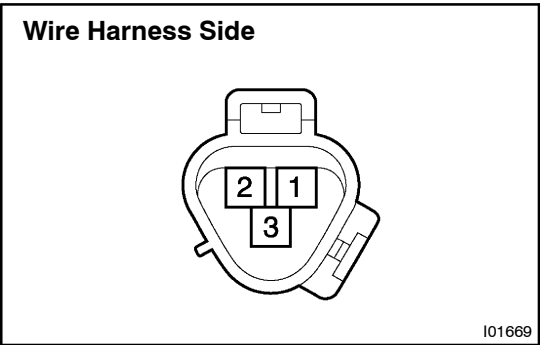
If current value is not as specified, replace the switch.



2. INSPECT HEADLIGHT BEAM LEVEL CONTROL SWITCH ILLUMINATION

Connect the positive (+) lead from the battery to terminal 3 and negative (-) lead to terminal 6, and check that the illumination light light up.

If operation is not as specified, replace the switch.



3. INSPECT HEADLIGHT BEAM LEVEL CONTROL ACTUATOR CIRCUIT

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

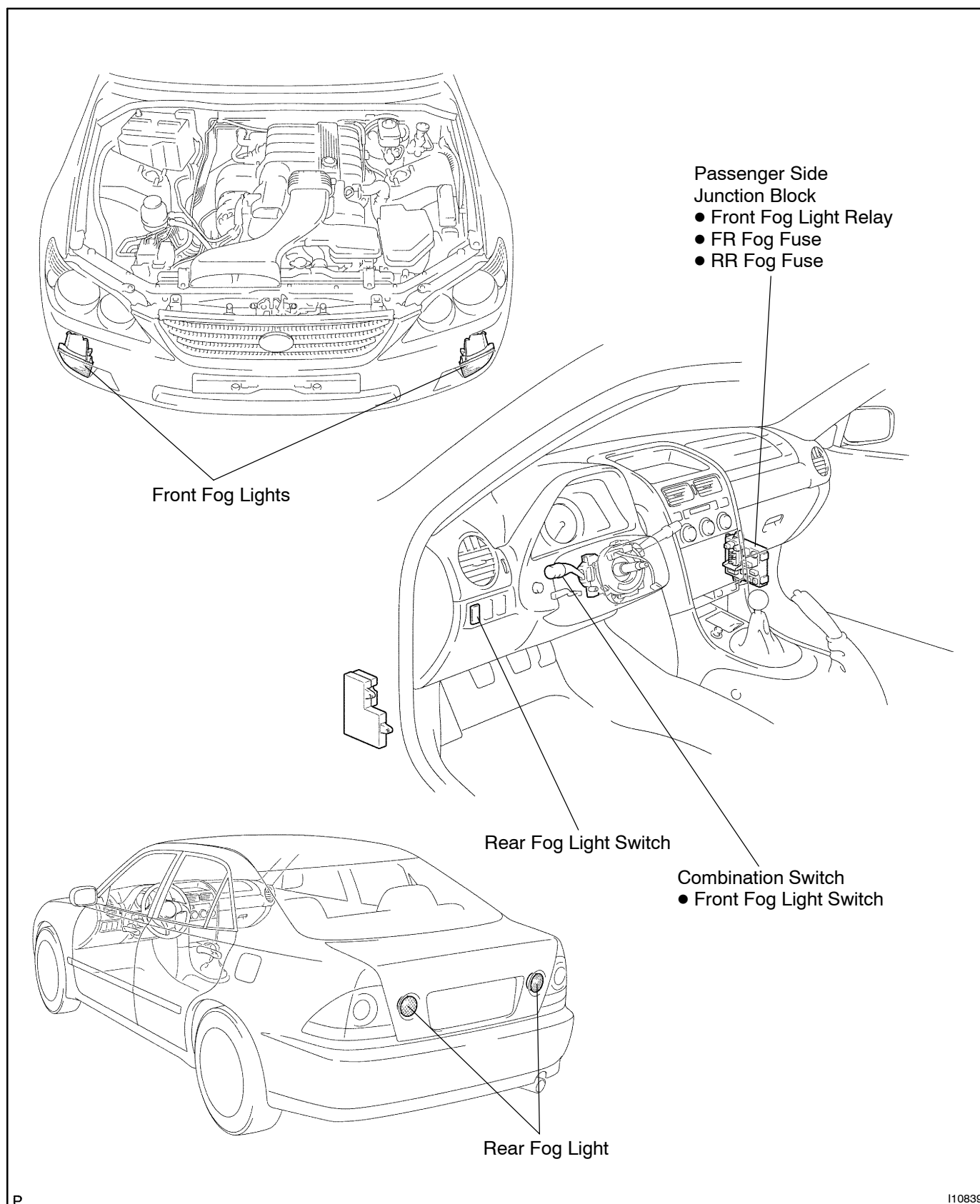
Tester connection	Condition	Specified condition
1 – Ground	Constant	Continuity
3 – Ground	Constant	Battery voltage

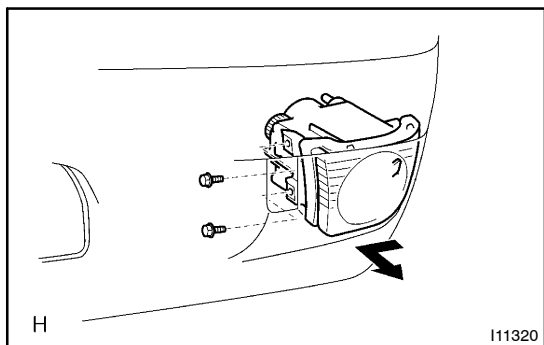
If circuit is not as specified, replace the actuator.

FOG LIGHT SYSTEM

LOCATION

BE0H2-06



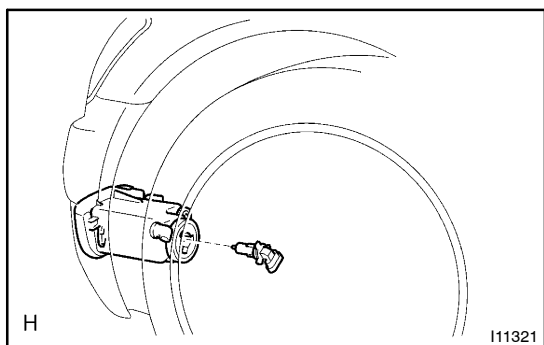


REMOVAL

1. REMOVE FOG LIGHT ASSEMBLY

HINT:

- Installation is in the reverse order of removal. Only if there is a specified procedure for installation it is shown.
 - Follow the same procedure for RH as for LH.
- (a) As shown in the illustration, remove the LH fog light assembly.
 - (b) Move the claw as shown in the illustration, and disconnect the engagement of claws.
 - (c) Separate the connector. Remove the 2 bolts.
 - (d) Install LH fog light assembly.
 - (e) Adjust optical axis of fog light ([See page BE-48](#)).

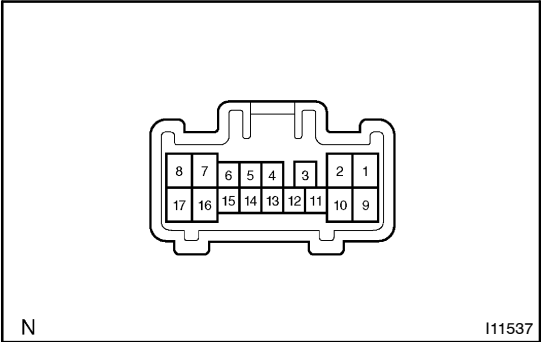


2. REMOVE FOG LIGHT BULB

HINT:

Follow the same procedure for RH as for LH.

- (a) Remove a part of LH front fender liner.
- (b) Separate the connector and remove the bulb.

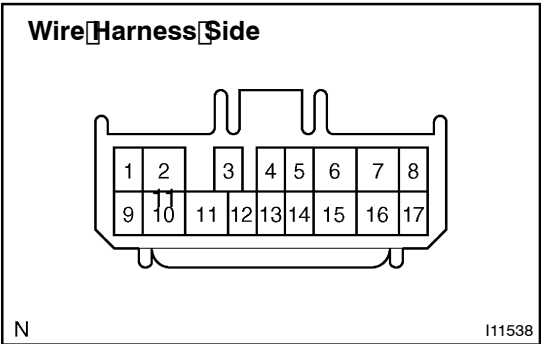


INSPECTION

1. LHD models: INSPECT FOG LIGHT SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
OFF	-	No continuity
ON	11 - 12	Continuity

If continuity is not as specified, replace the switch.

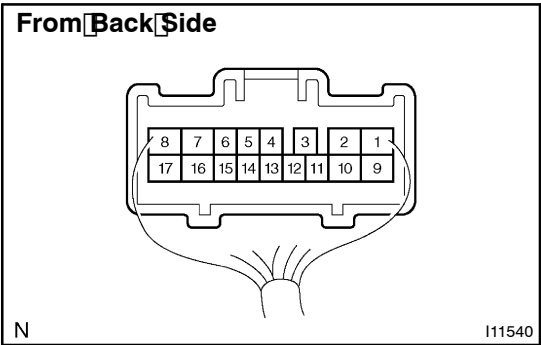


2. LHD models: INSPECT FOG LIGHT SWITCH CIRCUIT Connector disconnected: (See page DI-456)

Disconnect the connector from the switch and inspect the connector on the wire harness side, as shown.

Tester connection	Condition	Specified condition
11 - Ground	Light control switch TAIL or HEAD and dimmer switch LOW or HI	Continuity

If circuit is not as specified, inspect the wire harness.

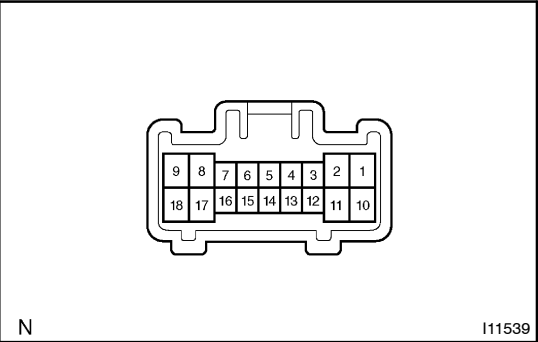


3. LHD models: INSPECT FOG LIGHT SWITCH CIRCUIT Connector connected:

Connect the wire harness side connector to the light control and dimmer switch and inspect the connector from the back side, as shown.

Tester connection	Condition	Specified condition
11 - Ground	Light control switch HEAD and headlight dimmer switch LO and fog light switch ON	No voltage
11 - Ground	Light control switch HEAD and headlight dimmer switch LO and fog light switch OFF	Battery voltage

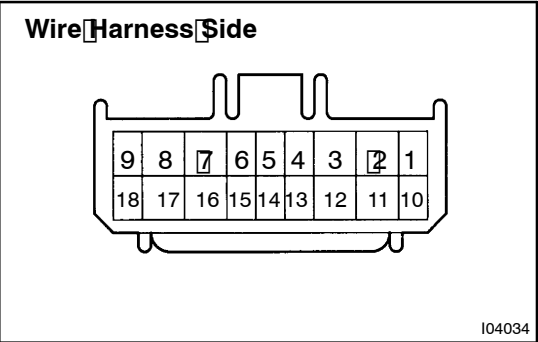
If circuit is not as specified, inspect the wire harness.



4. RHD Models:
INSPECT FRONT FOG LIGHT SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
OFF	–	No continuity
ON	12 – 13 (Australia) 10 – 11 (Europe)	Continuity

If continuity is not as specified, replace the switch.

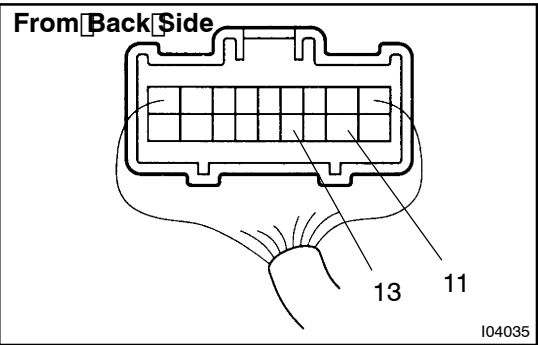


5. RHD Models:
INSPECT FRONT FOG LIGHT SWITCH CIRCUIT
Connector disconnected:
(See page DI-456)

Disconnect the connector from the switch and inspect the connector on the wire harness side, as shown.

Tester connection	Condition	Specified condition
12 – Ground (Australia) 10 – Ground (Europe)	Light control switch TAIL or HEAD and dimmer switch LOW or HI	Continuity

If circuit is not as specified, inspect the wire harness.



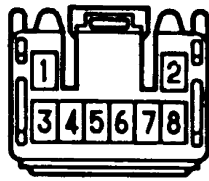
6. RHD Models:
INSPECT FRONT FOG LIGHT SWITCH CIRCUIT
Connector connected:

Connect the wire harness side connector to the light control and dimmer switch and inspect the connector from the back side, as shown.

Tester connection	Condition	Specified condition
13 – Ground (Australia) 11 – Ground (Europe)	Light control switch HEAD and headlight dimmer switch LO and fog light switch ON	No voltage
13 – Ground (Australia) 11 – Ground (Europe)	Light control switch HEAD and headlight dimmer switch LO and fog light switch OFF	Battery voltage

If circuit is not as specified, inspect the wire harness.

Wire Harness Side



I11315

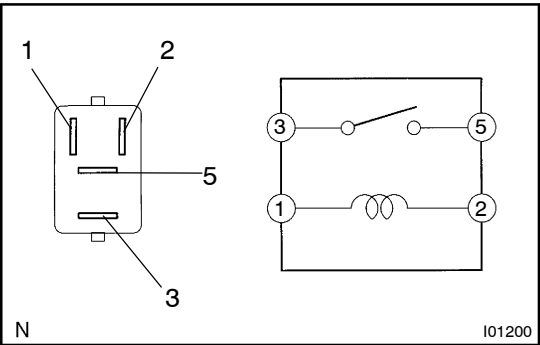
7. INSPECT REAR FOG LIGHT SWITCH CIRCUIT

Disconnect the connector from the switch and inspect the connector on the wire harness side, as shown.

Tester Connection	Condition	Specified Condition
1 - Ground	Constant	*Continuity
2 - Ground	Light control switch TAIL or HEAD	Continuity
4 - Ground	Constant	Battery voltage
5 - Ground	Light control switch HEAD	Continuity
6 - Ground	Front fog light switch ON	Continuity
7 - Ground	Constant	Continuity
8 - Ground	Constant	Continuity
3 - Ground	Constant	Battery voltage

*: There is resistance because this circuit is ground through the bulb.

If the circuit is not as specified, replace the wire harness.



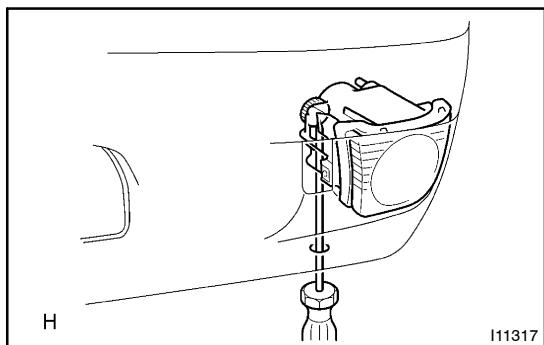
8. INSPECT FRONT FOG LIGHT RELAY CONTINUITY

Condition	Tester Connection	Specified condition
Constant	1 - 2	Continuity
Apply B+ between terminals 1 and 2.	3 - 5	Continuity

If continuity is not as specified, replace the relay.

9. INSPECT FRONT FOG LIGHT RELAY CIRCUIT

(See page DI-456)



ADJUSTMENT

ADJUST FOG LIGHT AIM

A-bolt: Vertical Direction

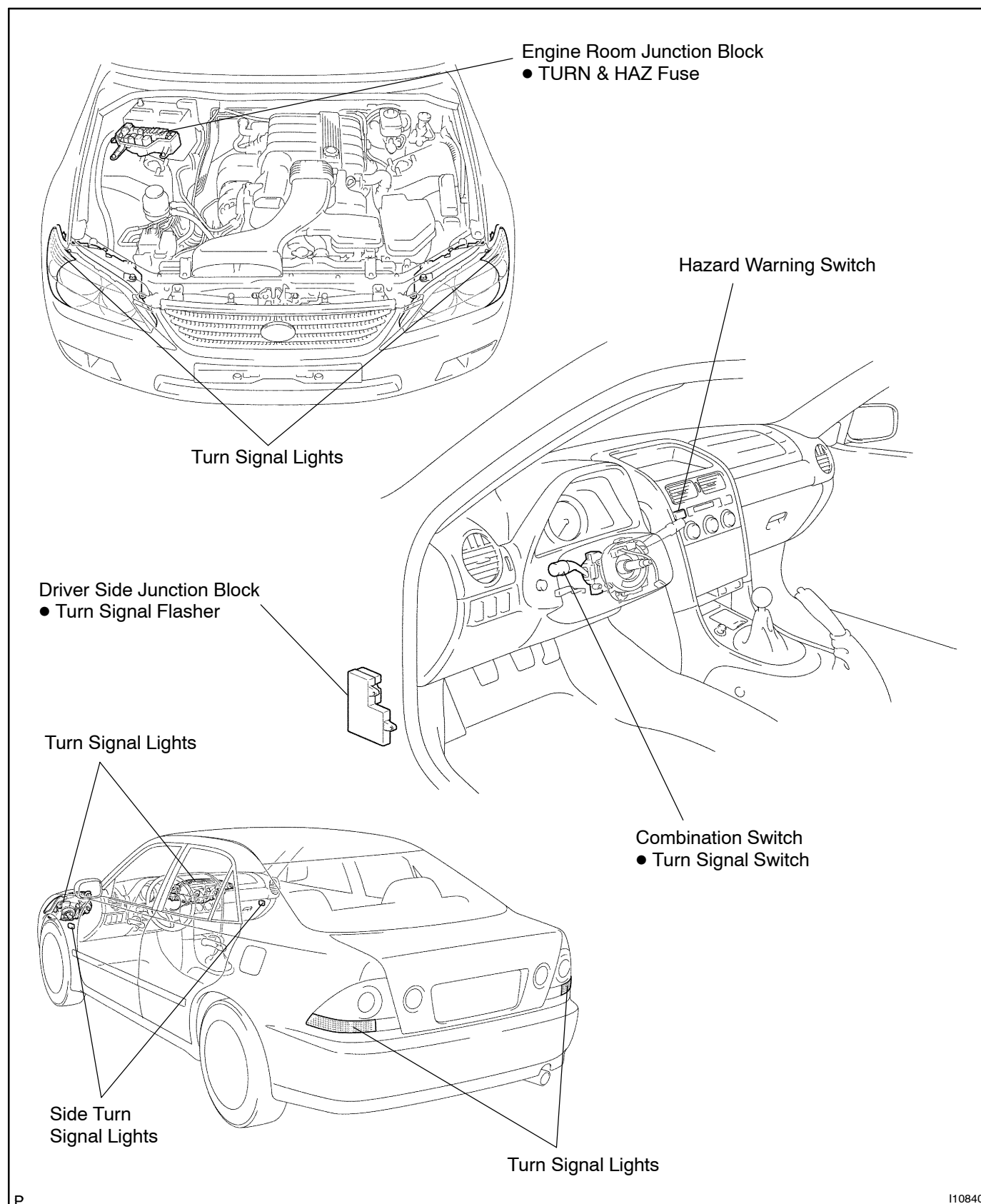
HINT:

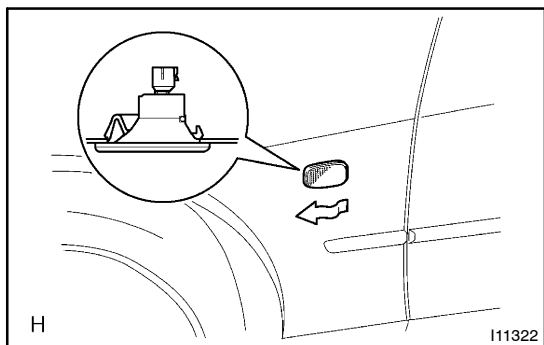
Insert a driver into the hole for aiming in the fender liner to perform aiming.

TURN SIGNAL AND HAZARD WARNING SYSTEM

LOCATION

BE0H0-05



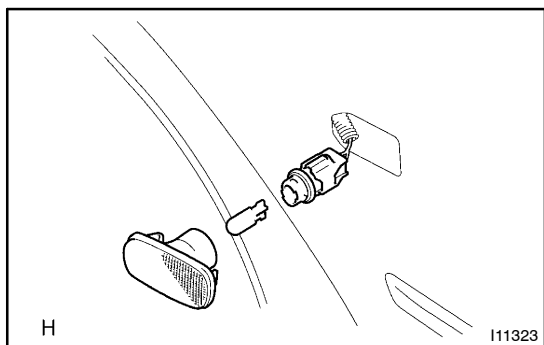


REMOVAL

1. REMOVE SIDE TURN SIGNAL LIGHT ASSEMBLY

HINT:

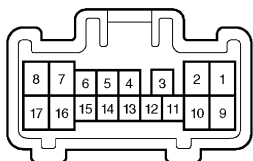
- Installation is in the reverse order of removal. Only if there is a specified procedure for installation it is shown.
 - Follow the same procedure for RH as for LH.
- (a) Pull off the LH side turn signal light assembly as shown in the illustration, and remove it.
 - (b) Separate the connector.



2. REMOVE SIDE TURN SIGNAL LIGHT BULB

HINT:

- Installation is in the reverse order of removal. Only if there is a specified procedure for installation it is shown.
 - Follow the same procedure for RH as for LH.
- (a) Remove side turn signal light assembly
 - (b) Remove the bulb socket and bulb.



N

I11537

INSPECTION

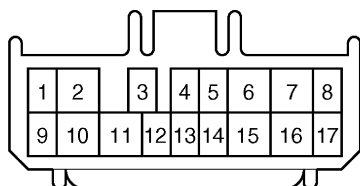
1. LHD models:

INSPECT TURN SIGNAL SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
Left turn	1 – 2	Continuity
Neutral	–	No continuity
Right turn	2 – 3	Continuity

If continuity is not as specified, replace the switch.

Wire Harness Side



N

I11538

2. LHD models:

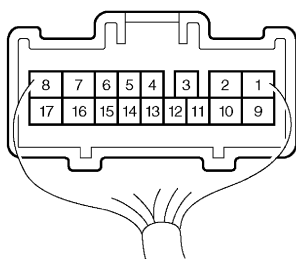
INSPECT TURN SIGNAL SWITCH CIRCUIT

Connector disconnected:

Disconnect the connector from the combination switch and inspect the connector on the wire harness side, as shown.

Tester connection	Condition	Specified condition
2 – Ground	Constant	Continuity

If circuit is not as specified, inspect the wire harness.

From Back Side

N

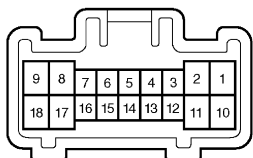
I11540

3. LHD models:
INSPECT TURN SIGNAL SWITCH CIRCUIT
Connector connected:

Connect the wire harness side connector to the combination switch and inspect the connector from the back side, as shown.

Tester connection	Condition	Specified condition
2 – Ground	Ignition switch ON and turn signal switch Neutral	No voltage
1 – Ground	Ignition switch ON and turn signal switch Left	Battery voltage ↔ 0 V
3 – Ground	Ignition switch ON and turn signal switch Right	Battery voltage ↔ 0 V

If circuit is not as specified, inspect the circuits connected to other parts.



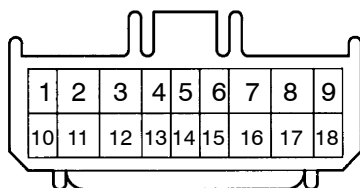
N

I11539

4. RHD models:
INSPECT TURN SIGNAL SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
Left turn	7 – 8 (Australia) 1 – 2 (Europe)	Continuity
Neutral	–	No continuity
Right turn	8 – 9 (Australia) 2 – 3 (Europe)	Continuity

If continuity is not as specified, replace the switch.

Wire Harness Side

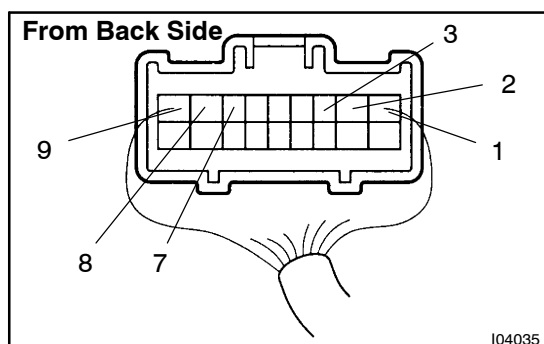
I04034

5. RHD models:
INSPECT TURN SIGNAL SWITCH CIRCUIT
Connector disconnected:

Disconnect the connector from the combination switch and inspect the connector on the wire harness side, as shown.

Tester connection	Condition	Specified condition
8 – Ground(Australia) 2 – Ground (Europe)	Constant	Continuity

If circuit is not as specified, inspect the wire harness.



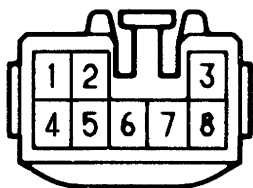
**6. RHD models:
INSPECT TURN SIGNAL SWITCH CIRCUIT
Connector connected:**

Connect the wire harness side connector to the combination switch and inspect the connector form the back side, as shown.

Tester connection	Condition	Specified condition
8 – Ground (Australia) 2 – Ground (Europe)	Ignition switch ON and turn signal switch Neutral	No voltage
7 – Ground (Australia) 1 – Ground (Europe)	Ignition switch ON and turn signal switch Left	Battery voltage ↔ 0 V
9 – Ground (Australia) 3 – Ground (Europe)	Ignition switch ON and turn signal switch Right	Battery voltage ↔ 0 V

If circuit is not as specified, inspect the circuits connected to other parts.

**7. INSPECT HAZARD WARNING SWITCH
(See [page DI-568](#), [AC-91](#))**

Wire Harness Side

I04046

8. INSPECT TURN SIGNAL FLASHER CIRCUIT

Disconnect the connector from the combination switch and inspect the connector on the wire harness side, as shown.

Tester connection	Condition	Specified condition
2 – Ground	Constant	Continuity
3 – Ground	Constant	Continuity
5 – Ground	Turn signal switch RIGHT or OFF	No continuity
5 – Ground	Turn signal switch LEFT	Continuity
6 – Ground	Turn signal switch LEFT or OFF	No continuity
6 – Ground	Turn signal switch RIGHT	Continuity
7 – Ground	Constant	Continuity
8 – Ground	Hazard warning switch OFF	No continuity
8 – Ground	Hazard warning switch ON	Continuity
1 – Ground	Ignition switch LOCK or ACC	No voltage
1 – Ground	Ignition switch ON	Battery voltage
4 – Ground	Constant	Battery voltage

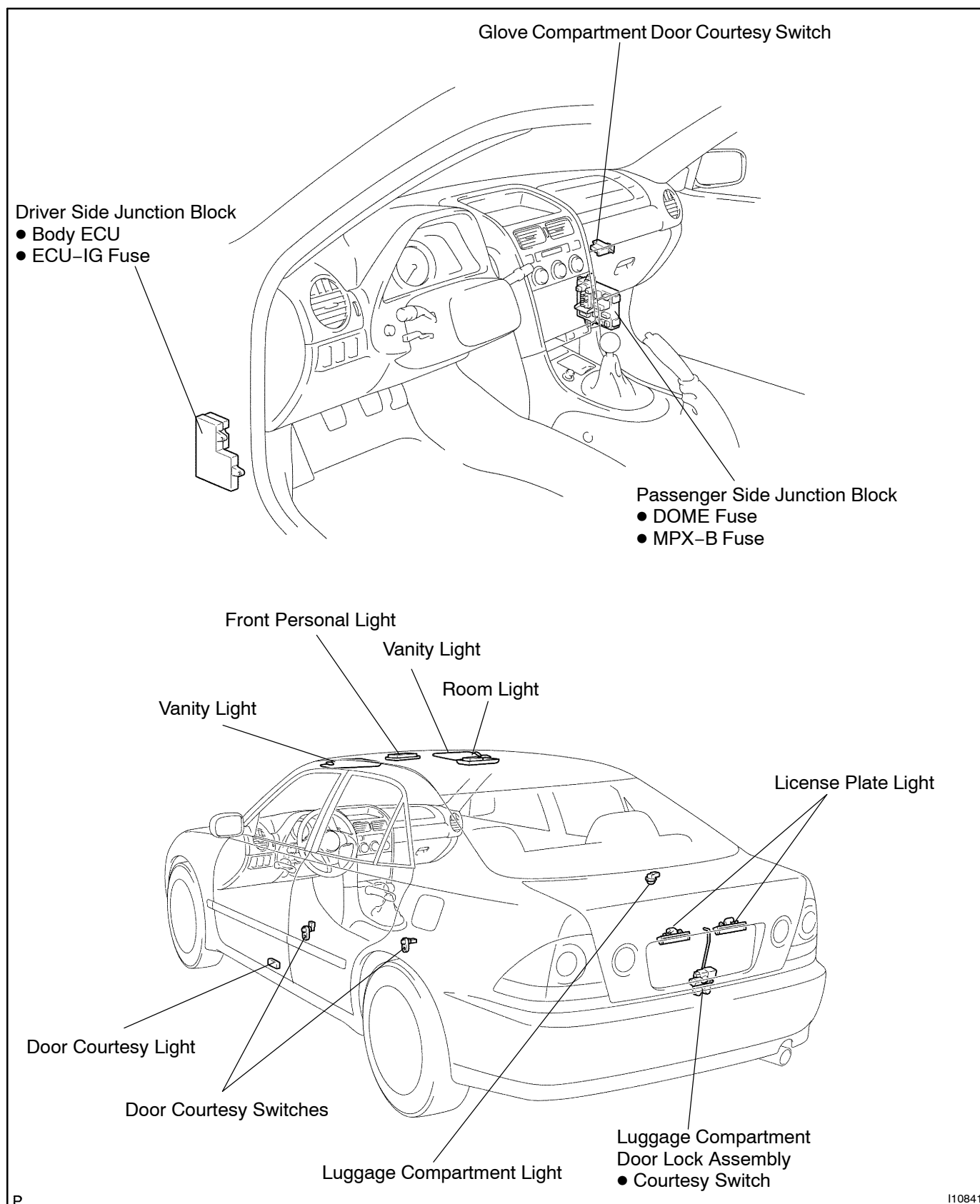
If circuit is as specified, replace the relay.

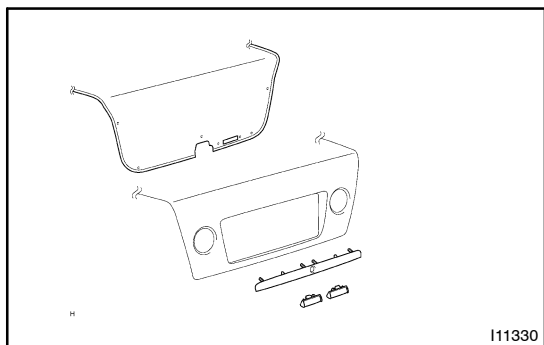
If circuit is not as specified, inspect the circuits connected to other parts.

INTERIOR LIGHT SYSTEM

LOCATION

BEOGY-04



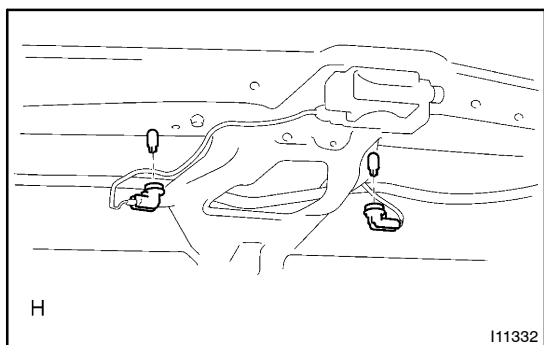
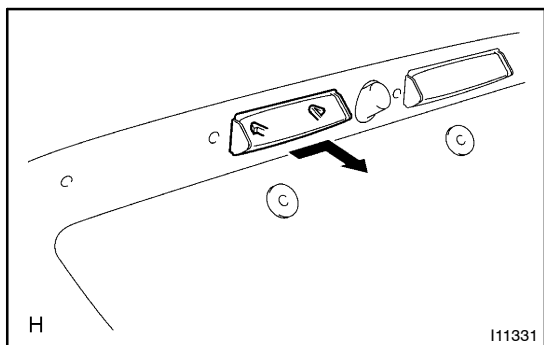


REMOVAL

1. REMOVE LICENSE PLATE LIGHT

HINT:

- Installation is in the reverse order of removal. Only if there is a specified procedure for installation it is shown.
 - Follow the same procedure for RH as for LH.
- (a) Remove a part of luggage compartment door trim.
 - (b) Remove the 4 nuts.
 - (c) Remove luggage compartment door outer garnish (See page BO-40).
 - (d) Disconnect the connector.
 - (e) Pull the claw towards the inside of the vehicle as shown in the illustration, disconnect the engagement of 2 claws, and remove the license plate light assembly.

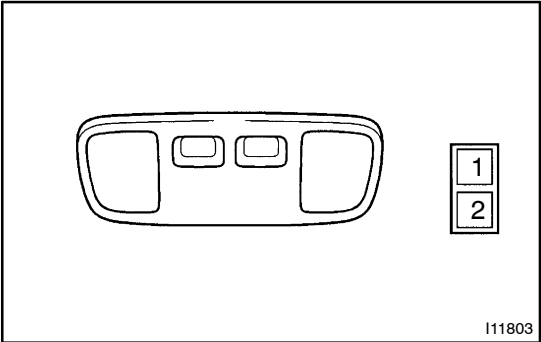
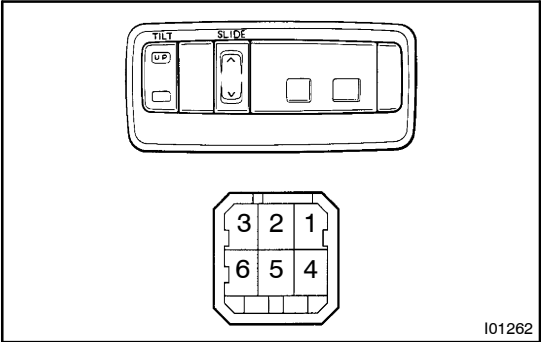


2. REMOVE LICENSE PLATE BULB

HINT:

Installation is in the reverse order of removal. Only if there is a specified procedure for installation it is shown.

- (a) Remove a part of luggage compartment door trim.
- (b) Disconnect the bulb sockets and remove the bulbs.



INSPECTION

1. w/Sliding Roof: INSPECT FRONT PERSONAL LIGHT SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
OFF	-	No continuity
ON	1 - 4	Continuity

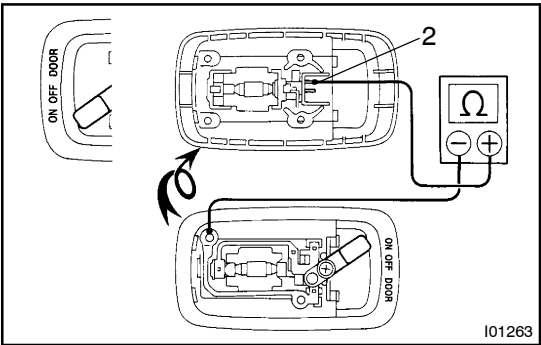
If continuity is not as specified, replace the light assembly or bulb.

2. w/o Sliding Roof: INSPECT FRONT PERSONAL LIGHT SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
OFF	-	No continuity
ON	1 - 2	Continuity

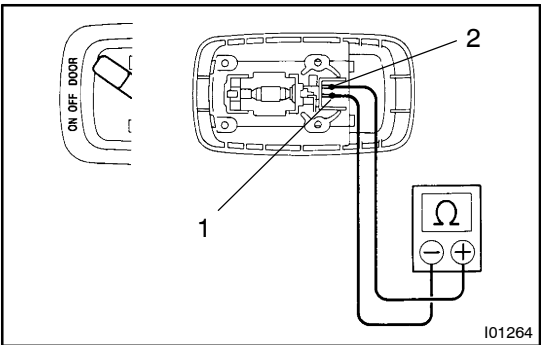
If continuity is not as specified, replace the light assembly or bulb.

3. INSPECT FRONT PERSONAL LIGHT SWITCH CIRCUIT (See page DI-564)



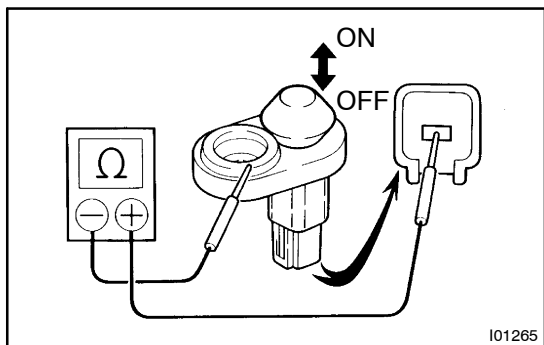
4. INSPECT ROOM LIGHT CONTINUITY

- Disconnect the connector from the room light.
- Turn the room light switch ON, check that continuity exists between terminal 2 and body ground.



- Turn the room light switch DOOR, check that continuity exists between terminals 1 and 2.

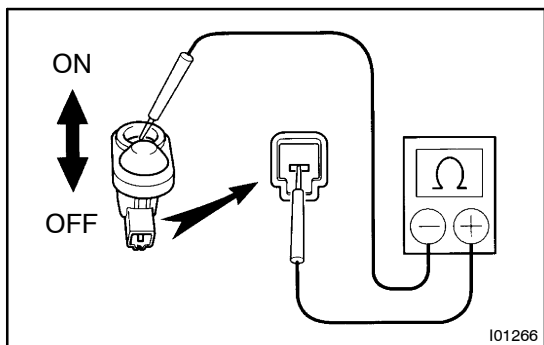
If continuity is not as specified, replace the light assembly or bulb.



5. INSPECT FRONT DOOR COURTESY SWITCH CONTINUITY

- Check that continuity exists between terminals and the switch body with the switch ON (switch pin released: opened door).
- Check that no continuity exists between terminals and the switch body with the switch OFF (switch pin pushed in: closed doors).

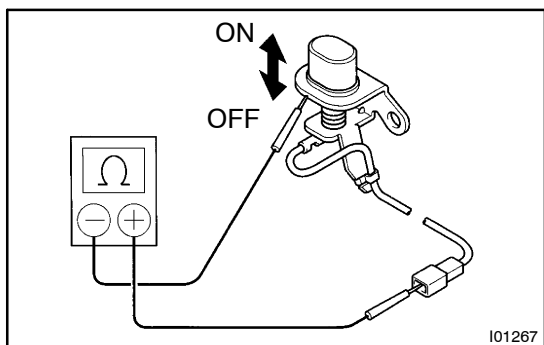
If operation is not as specified, replace the switch.



6. INSPECT REAR DOOR COURTESY SWITCH CONTINUITY

- Check that there is continuity between terminals and the switch body with the switch ON (switch pin released: opened door).
- Check that there is no continuity between terminals and the switch body with the switch OFF (switch pin pushed in: closed door).

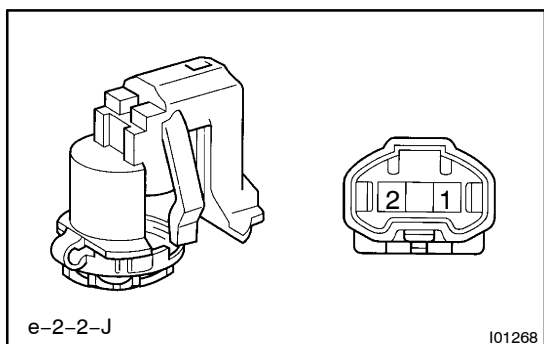
If operation is not as specified, replace the switch.



7. INSPECT LUGGAGE COMPARTMENT DOOR COURTESY SWITCH CONTINUITY

- Check that continuity exists between terminals and the switch body with the switch ON (switch pin released: opened door).
- Check that no continuity exists between terminals and the switch body with the switch OFF (switch pin pushed in: closed doors).

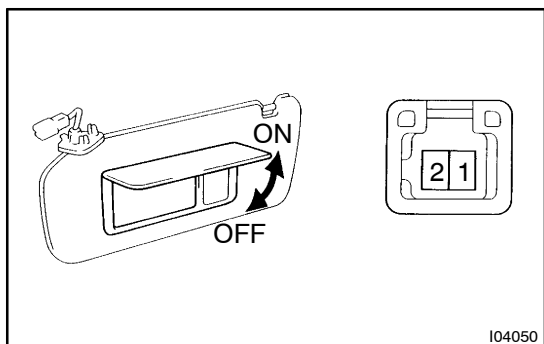
If operation is not as specified, replace the switch.



8. INSPECT LUGGAGE COMPARTMENT LIGHT CONTINUITY

Using the ohmmeter, check that continuity exists between terminals.

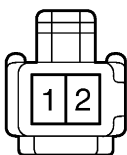
If continuity is not as specified, replace the light assembly or bulb.



9. INSPECT VANITY LIGHT CONTINUITY

Switch position	Tester connection	Specified condition
OFF (closed)	-	No continuity
ON (opened)	1 - 2	Continuity

If continuity is not as specified, replace the vanity light assembly or bulb.

Wire Harness Side

I04051

10. INSPECT VANITY LIGHT CIRCUIT**(See page DI-564)**

Disconnect the connector from the light and inspect the connector on the wire harness side, as shown.

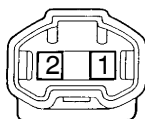
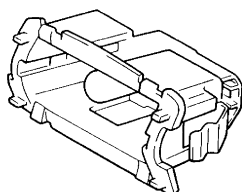
Tester connection	Condition	Specified condition
2 - Ground	Constant	Continuity
1 - Ground	Constant	Battery voltage

If circuit is not as specified, inspect power source or wire harness.

11. INSPECT DOOR COURTESY LIGHT CONTINUITY

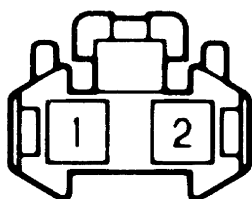
Using an ohmmeter, check that continuity exists between terminals.

If continuity is not as specified, replace the light assembly or bulb.



e-2-2-J

I04052

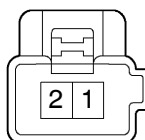
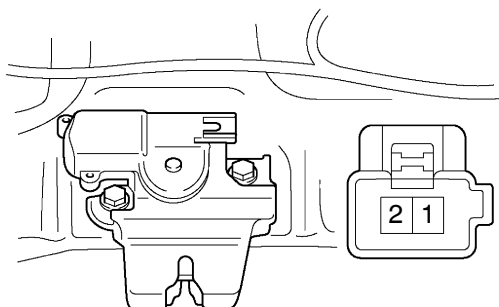
Wire Harness Side

I04053

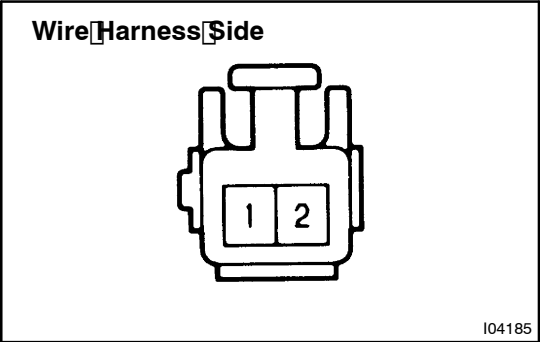
12. INSPECT DOOR COURTESY LIGHT CIRCUIT**(See page DI-564)****13. INSPECT LUGGAGE COMPARTMENT DOOR COURTESY SWITCH CONTINUITY**

Switch position	Tester connection	Specified condition
OFF (closed)	-	No continuity
ON (opened)	2 - Switch body	Continuity

If continuity is not as specified, replace the switch.



I04054



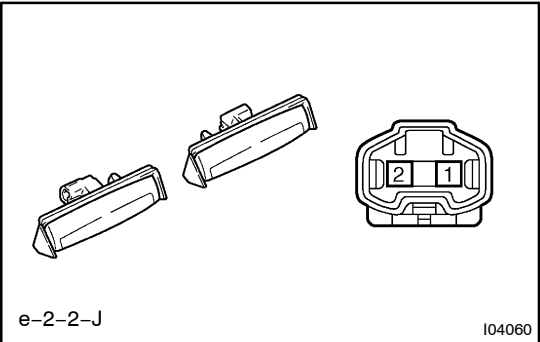
14. INSPECT LUGGAGE COMPARTMENT DOOR COURTESY SWITCH CIRCUIT

(See page DI-586)

Disconnect the connector from the switch and inspect the connector on the wire harness side, as shown.

Tester Connection	Condition	Specified Condition
2 - Body Ground	Luggage compartment door courtesy switch ON (door opened)	Continuity

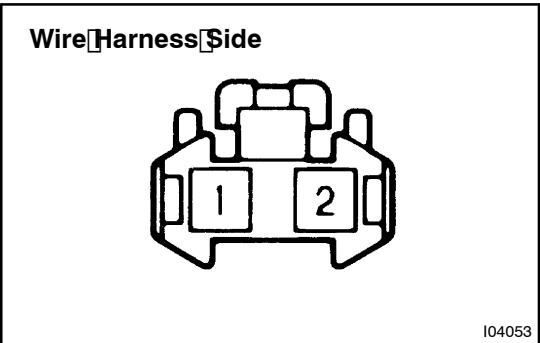
If circuit is not as specified, inspect power source or wire harness.



15. INSPECT LICENSE PLATE LIGHT CONTINUITY

Using an ohmmeter, check that continuity exists between terminals.

If continuity is not as specified, replace the light assembly or bulb.



16. INSPECT LICENSE PLATE LIGHT CIRCUIT

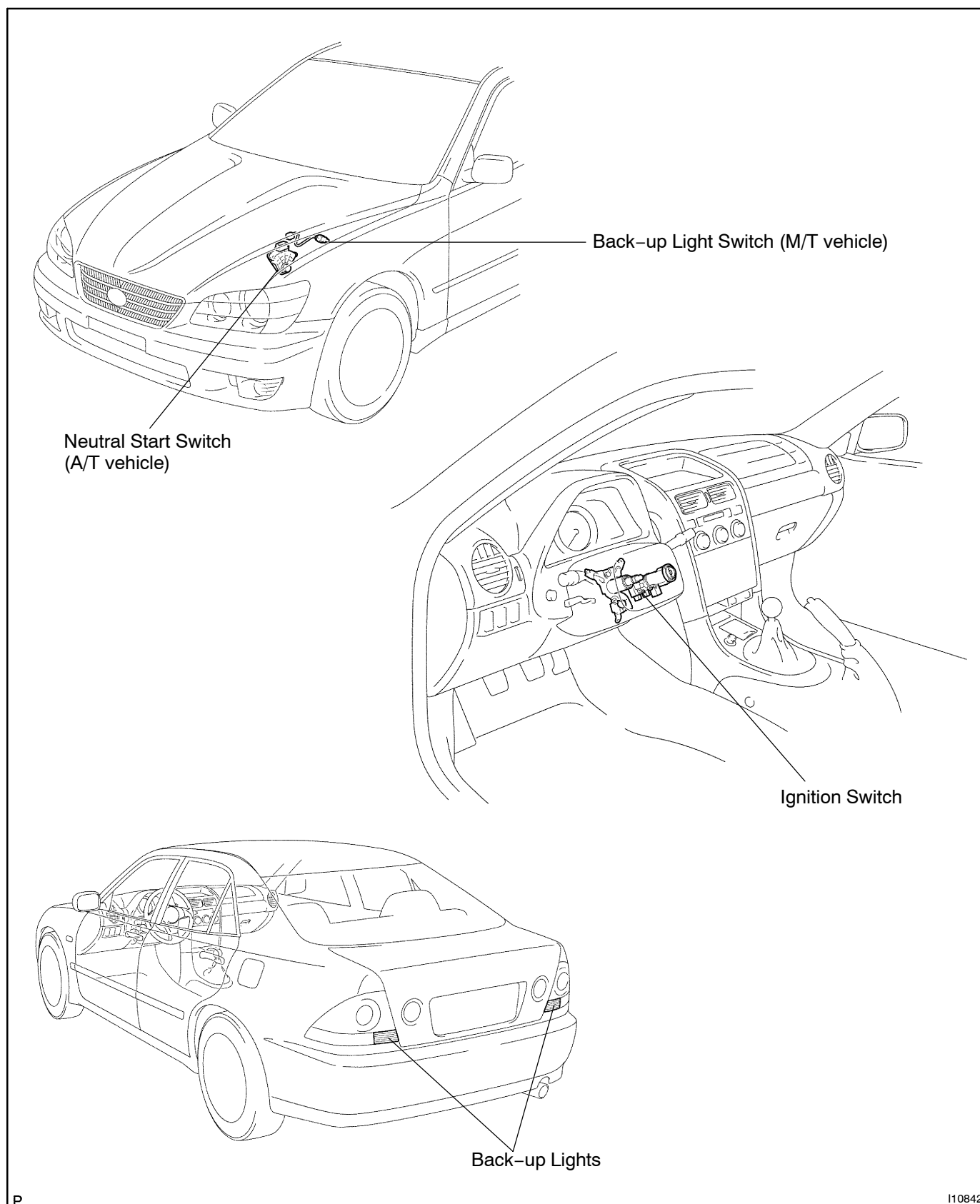
Disconnect the connector from the light and inspect the connector on the wire harness side, as shown.

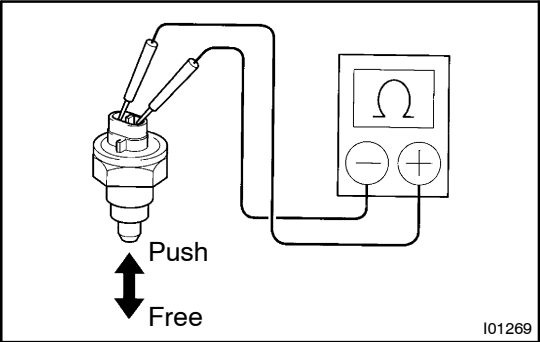
Tester connection	Condition	Specified condition
1 - Ground	Constant	Continuity
2 - Ground	Light control switch TAIL or HEAD	Battery voltage

If circuit is not as specified, inspect power source or wire harness.

BACK-UP LIGHT SYSTEM LOCATION

BEOGW-07





INSPECTION

1. INSPECT BACK-UP LIGHT SWITCH CONTINUITY

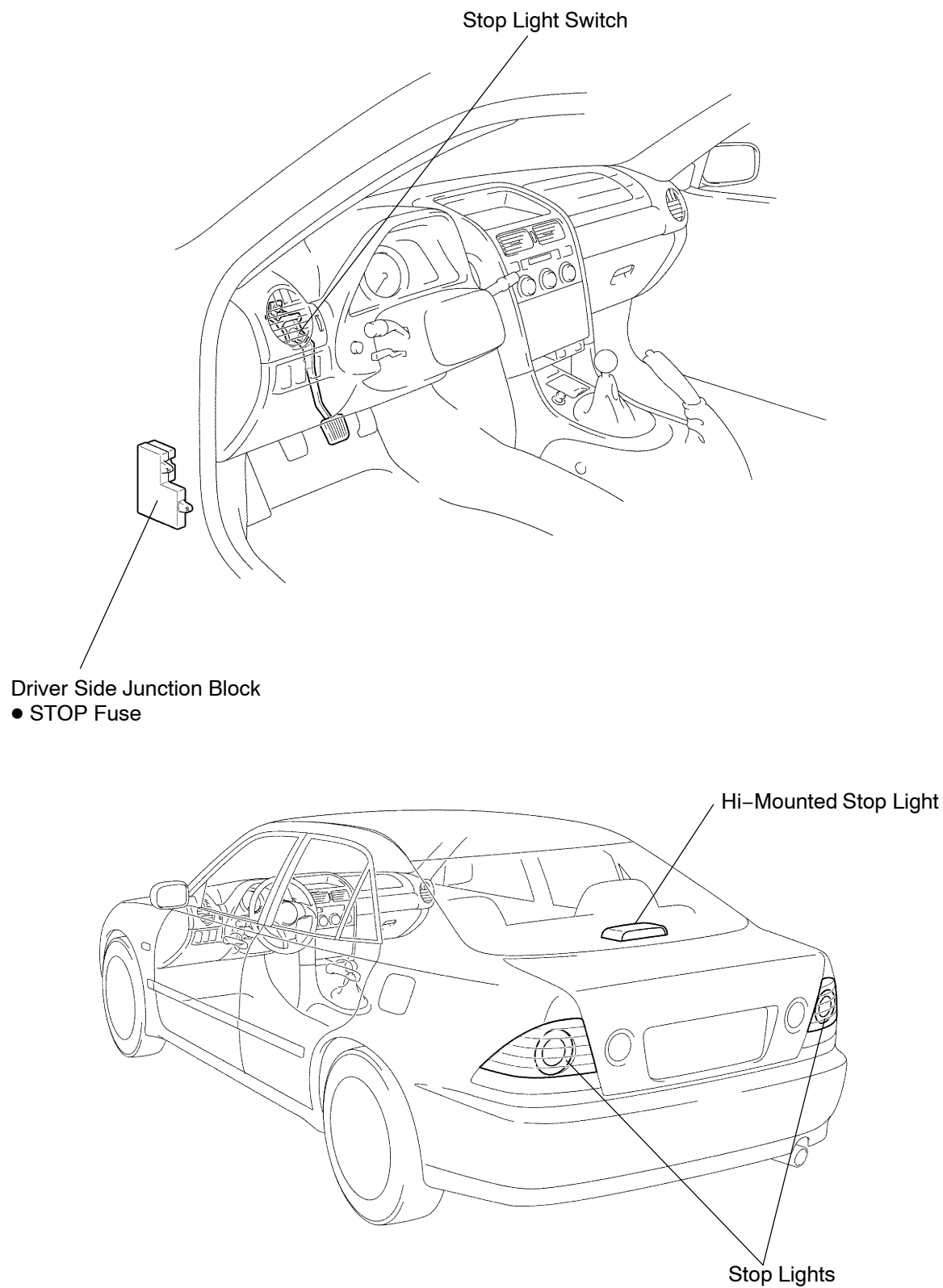
Switch position	Specified condition
Push	Continuity
Free	No continuity

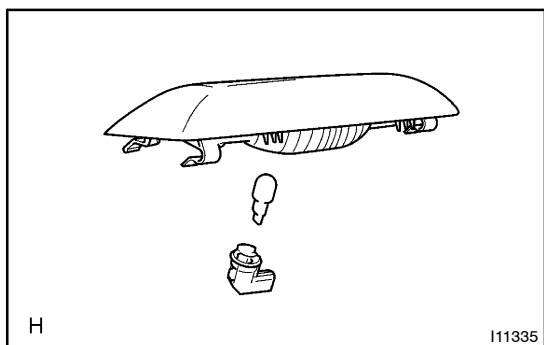
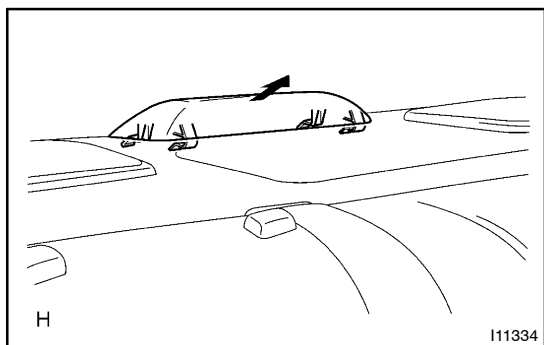
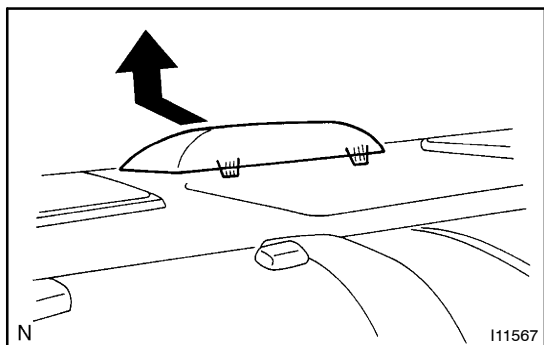
If continuity is not as specified, replace the switch.

2. INSPECT NEUTRAL START SWITCH CONTINUITY
(See page DI-204)

STOP LIGHT SYSTEM LOCATION

BE0H6-07





REMOVAL

1. REMOVE CENTER STOP LIGHT ASSEMBLY

HINT:

Installation is in the reverse order of removal. Only if there is a specified procedure for installation it is shown.

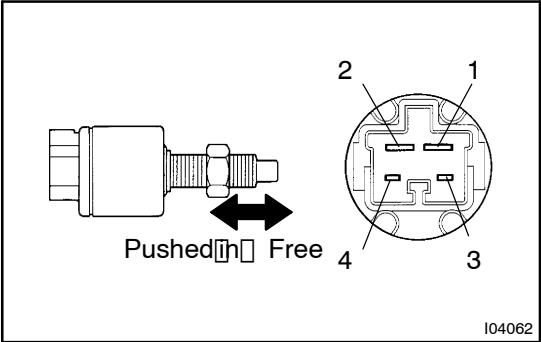
- (a) Insert the clip remover in the position as shown in the illustration, pull it upwards, and disconnect the engagement of the 2 front claws.
- (b) Pull the center stop light assembly in the direction as shown in the illustration, and disconnect the engagement of 4 claws.
- (c) Separate the connector, and remove the center stop light assembly.

2. REMOVE CENTER STOP LIGHT BULB

HINT:

Installation is in the reverse order of removal. Only if there is a specified procedure for installation it is shown.

- (a) Remove center stop light assembly.
- (b) Remove the bulb sockets and bulbs.

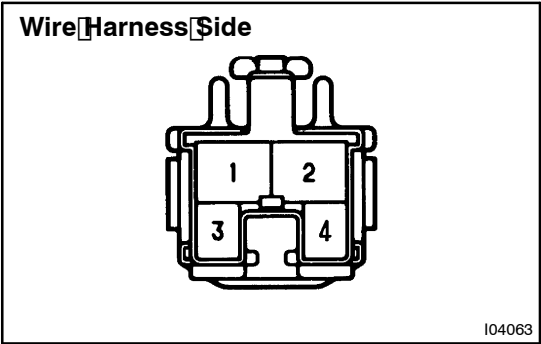


INSPECTION

1. INSPECT STOP LIGHT SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
Switch pin free (Pedal depressed)	-	No continuity
Switch pin pushed in (Pedal released)	1 - 2	Continuity
Switch pin free (Pedal depressed)	-	No continuity
Switch pin pushed in (Pedal released)	3 - 4	Continuity

If continuity is not as specified, replace the switch.



2. INSPECT STOP LIGHT SWITCH CIRCUIT (See page DI-488)

Disconnect the connector from the switch and inspect the connector on the wire harness side, as shown.

Tester connection	Condition	Specified condition
2 - Ground	Constant	Battery voltage

If circuit is not as specified, inspect the power source or wire harness.

HEADLIGHT CLEANER SYSTEM

LOCATION

BE023-06

