BODY SECTION

This service manual has been prepared to provide SUBARU service personnel with the necessary information and data for the correct maintenance and repair of SUBARU vehicles.

This manual includes the procedures for maintenance, disassembling, reassembling, inspection and adjustment of components and diagnostics for guidance of experienced mechanics.

Please peruse and utilize this manual fully to ensure complete repair work for satisfying our customers by keeping their vehicle in optimum condition. When replacement of parts during repair work is needed, be sure to use SUBARU genuine parts.

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)	AC
AIRBAG SYSTEM	АВ
SEAT BELT SYSTEM	SB
LIGHTING SYSTEM	LI
WIPER AND WASHER SYSTEMS	ww
ENTERTAINMENT	ET
COMMUNICATION SYSTEM	СОМ
GLASS/WINDOWS/MIRRORS	GW
BODY STRUCTURE	BS
BODY STRUCTURE INSTRUMENTATION/DRIVER INFO	IDI
INSTRUMENTATION/DRIVER INFO	IDI
INSTRUMENTATION/DRIVER INFO SEATS	IDI SE
INSTRUMENTATION/DRIVER INFO SEATS SECURITY AND LOCKS SUNROOF/T-TOP/CONVERTIBLE TOP	IDI SE SL
INSTRUMENTATION/DRIVER INFO SEATS SECURITY AND LOCKS SUNROOF/T-TOP/CONVERTIBLE TOP (SUNROOF)	IDI SE SL SR
INSTRUMENTATION/DRIVER INFO SEATS SECURITY AND LOCKS SUNROOF/T-TOP/CONVERTIBLE TOP (SUNROOF) EXTERIOR/INTERIOR TRIM	IDI SE SL SR

All information, illustration and specifications contained in this manual are based on the latest product information available at the time of publication approval.

FUJI HEAVY INDUSTRIES LTD.

LIGHTING SYSTEM

LI

1.	General Description	Page
1. 2.	Headlight and Tail Light System	
3.	Front Fog Light System	
3. 4.	Rear Fog Light System	
5.	Turn Signal and Hazard Light System	
6.	Back-up Light System	
7.	Stop Light System	
8.	Interior Light System	
9.	Headlight Beam Leveler System	
10.	Combination Switch (Light)	
11.	Headlight Assembly	
12.	Headlight Bulb	
13.	Front Turn Signal Light Assembly	
14.	Front Turn Signal Light Bulb	
15.	Parking Light Bulb	
16.	Front Fog Light Assembly	
17.	Front Fog Light Bulb	
18.	Rear Combination Light Assembly	
19.	Rear Finisher Light Assembly	51
20.	Brake/Tail Light Bulb	52
21.	Back-up Light Bulb	53
22.	Rear Turn Signal Light Bulb	54
23.	Rear Fog Light Assembly	55
24.	Rear Fog Light Bulb	56
25.	License Plate Light	57
26.	High-mounted Stop Light	58
27.	Side Turn Signal Light	59
28.	Spot Light	60
29.	Room Light	
30.	Luggage Room Light	62
31.	Glove Box Light	63

1. General Description S914001

A: SPECIFICATIONS S914001E49

Headlight		12 V — 60 W/55 W (Halogen)
Front turn signal light		12 V — 21 W
Side turn signal light		12 V — 5 W
Parking light		12 V — 5 W
Front fog light		12 V — 51 W
Rear fog light		12 V — 21 W
	Tail/Stop light	12 V — 5/21 W
Rear combination light	Turn signal light	12 V — 21 W
	Back-up light	12 V — 16 W
License plate light		12 V — 5 W
High-mounted stop light		12 V — 10 W
Room light		12 V — 8 W
Spot light		12 V — 8 W
Luggage room light		12 V — 5 W

B: PRECAUTIONS S914001E59

- Before disassembling or reassembling parts, always disconnect battery ground cable. When replacing radio, control module, and other parts provided with memory functions, record memory contents before disconnecting the battery ground cable. Otherwise, the memory will be erased.
- Reassemble in reverse order of disassembly, unless otherwise indicated.
- Adjust parts to the given specifications.
- Connect connectors and hoses securely during reassembly.

• After reassembly, make sure functional parts operate smoothly.

WARNING:

- Air bag system wiring harness is routed near electrical parts and switches. All air bag system wiring harnesses and connectors are yellow. Do not use electric test equipment on these circuits.
- Be careful not to damage the air bag system wiring harness when servicing electrical parts and switches.

C: PREPARATION TOOL S914001A17

1. GENERAL TOOLS S914001A1701

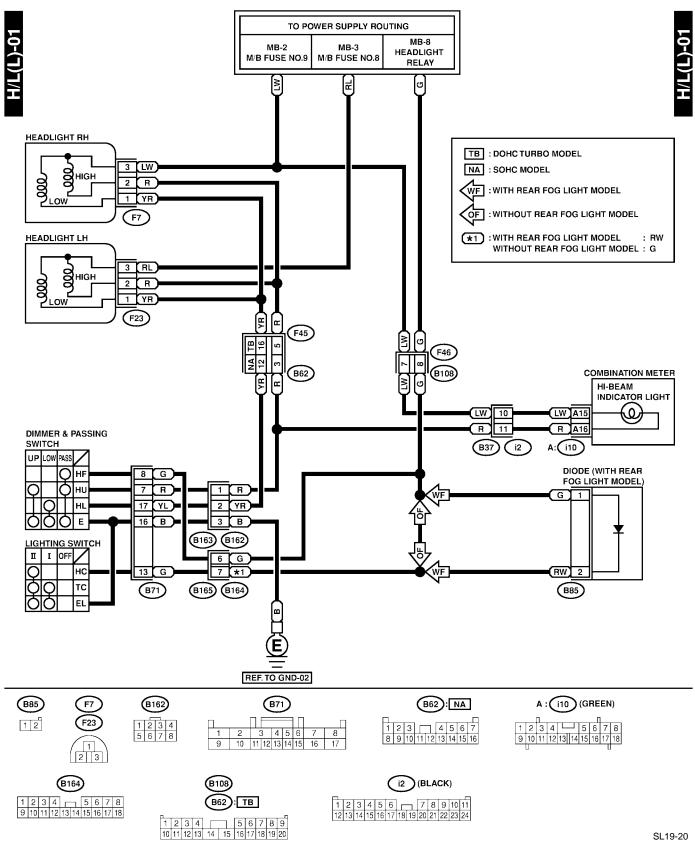
TOOL NAME	REMARKS
Circuit Tester	Used for measuring resistance and voltage.

MEMO:

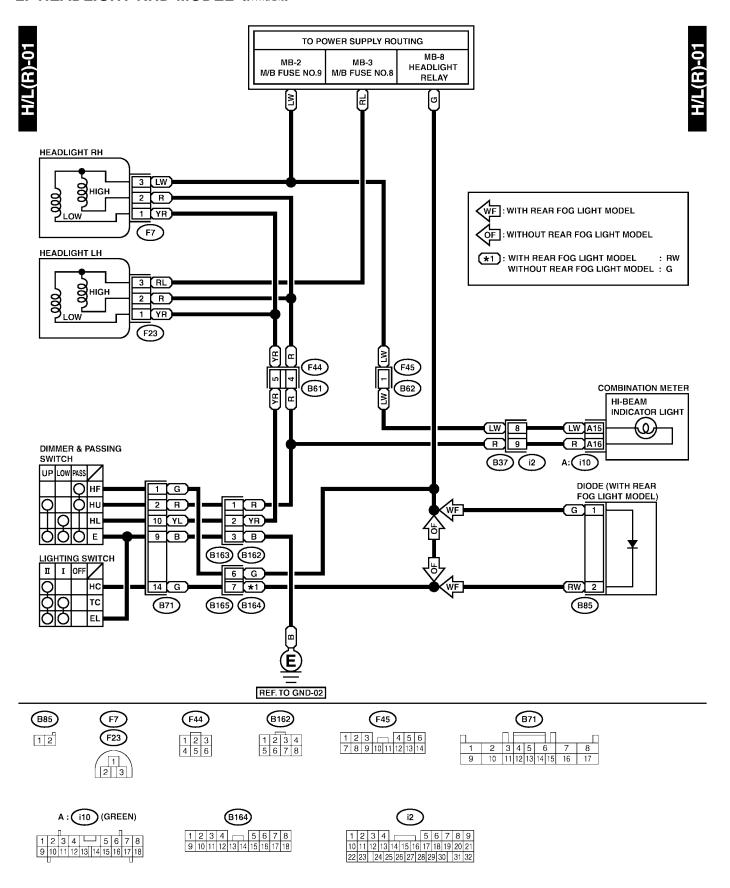
2. Headlight and Tail Light System S914415

A: SCHEMATIC S914415A21

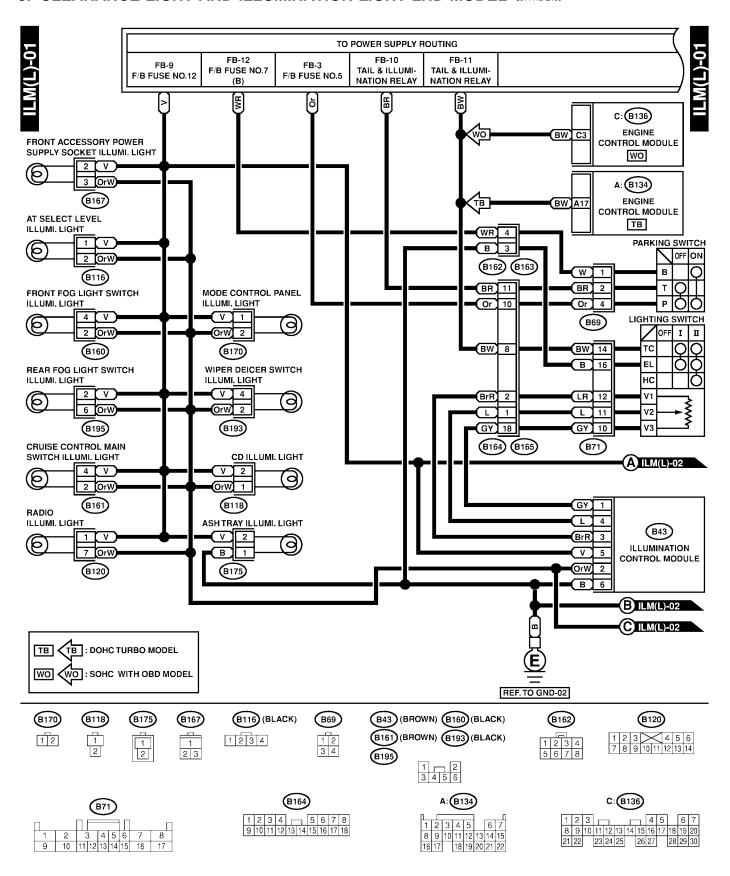
1. HEADLIGHT LHD MODEL S914415A2104

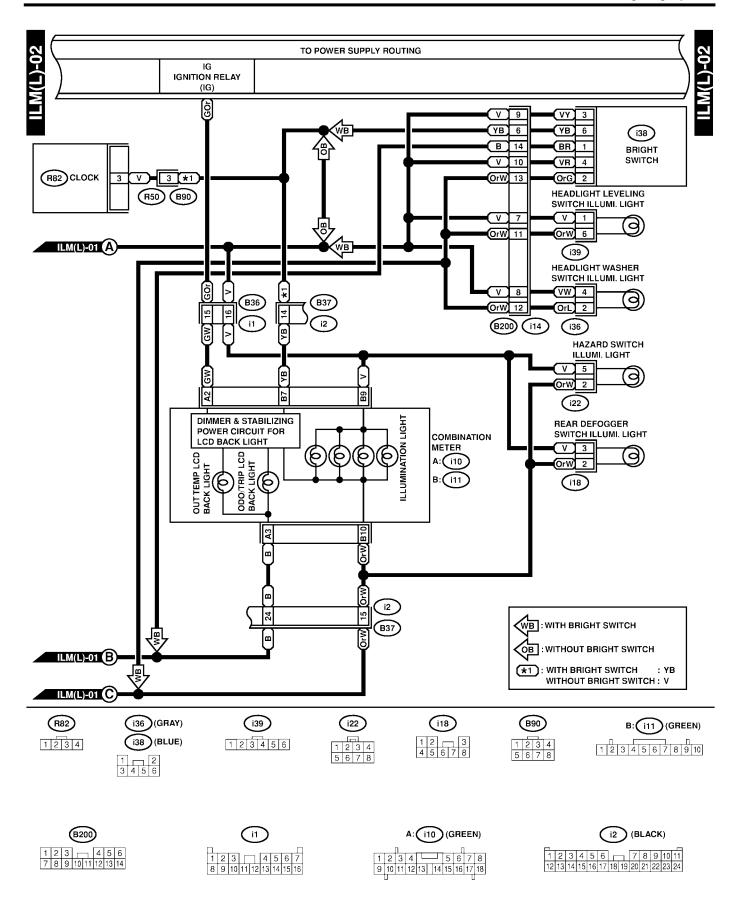


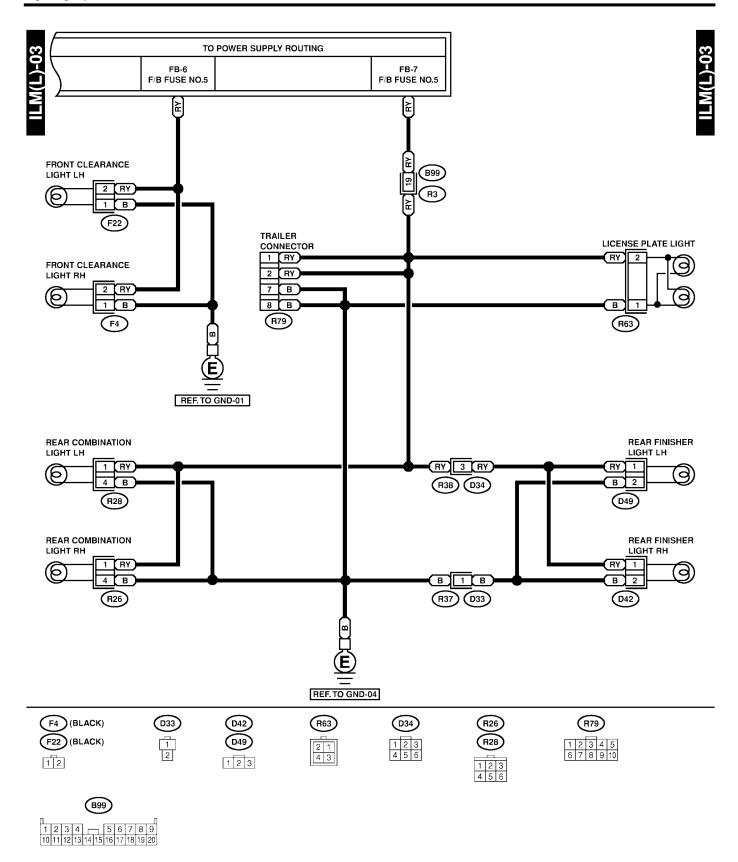
2. HEADLIGHT RHD MODEL S914415A2105



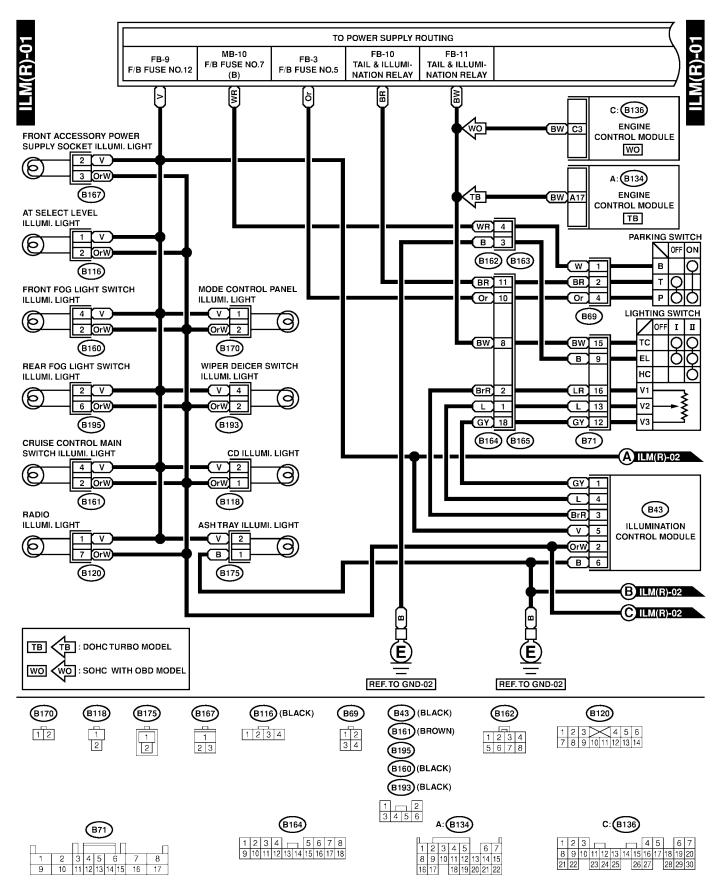
3. CLEARANCE LIGHT AND ILLUMINATION LIGHT LHD MODEL S914415A21106

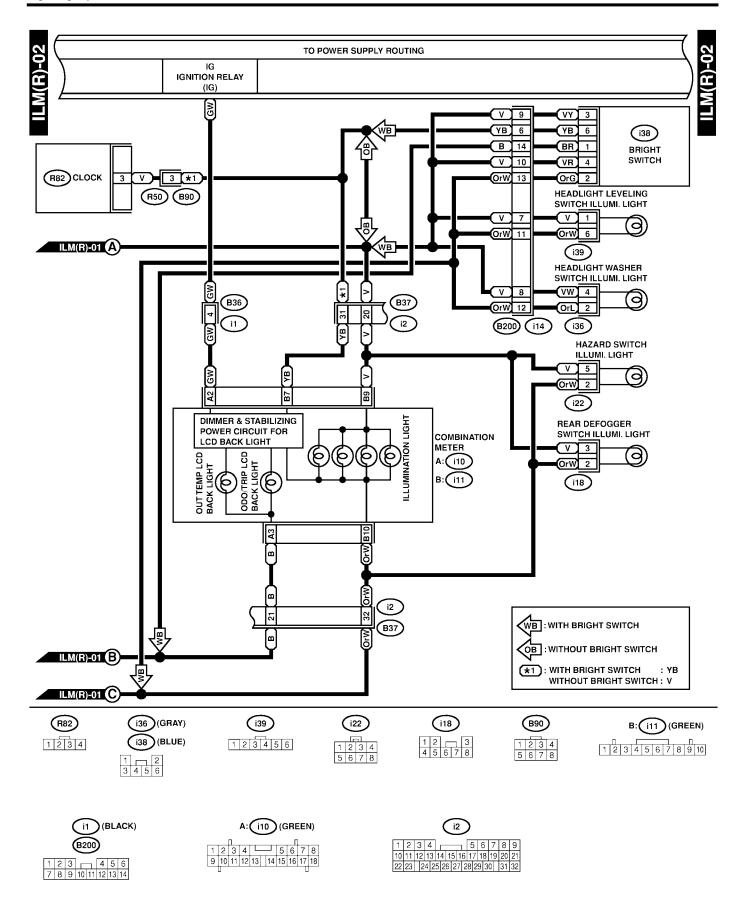


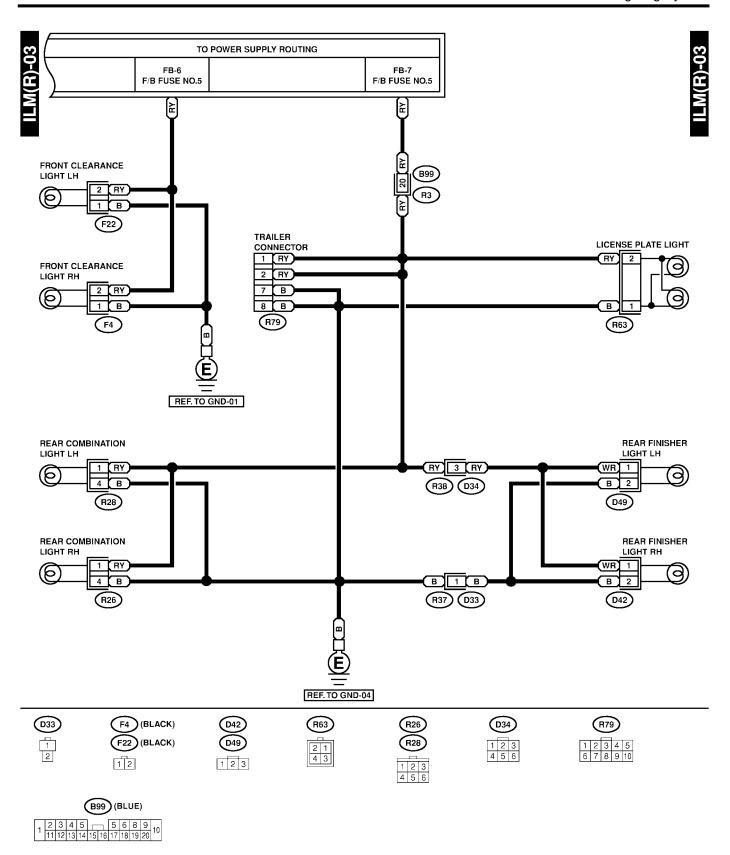




4. CLEARANCE LIGHT AND ILLUMINATION LIGHT RHD MODEL S014415A2107





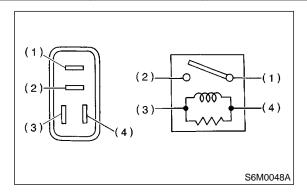


B: INSPECTION S914415A10

1. HEADLIGHT RELAY S914415A1001

Check continuity between terminals when terminal No. 4 is connected to battery and terminal No. 3 is grounded.

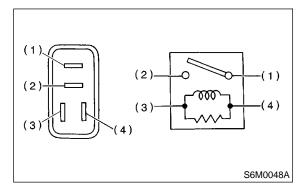
When current flows.	Between terminals No. 1 and No. 2	Continuity exists.
When current	Between terminals No. 1 and No. 2	Continuity does not exist.
does not flow.	Between terminals No. 3 and No. 4	Continuity exists.



2. TAIL AND ILLUMINATION RELAY S914415A1002

Check continuity between terminals (indicated in table below) when terminal No. 4 is connected to battery and terminal No. 3 is grounded.

When current flows.	Between terminals No. 1 and No. 2	Continuity exists.
When current	Between terminals No. 1 and No. 2	Continuity does not exist.
does not flow.	Between terminals No. 3 and No. 4	Continuity exists.

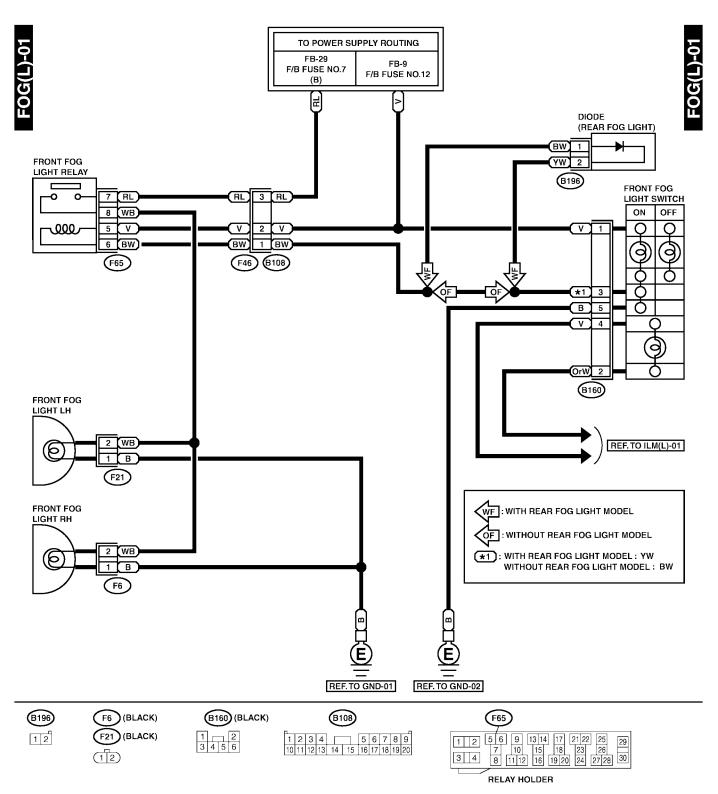


MEMO:

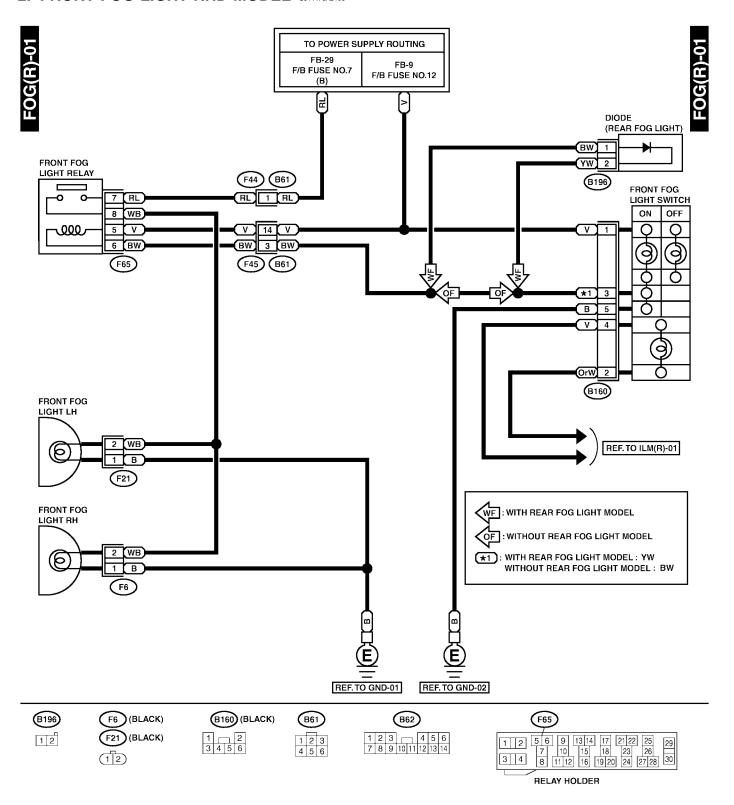
3. Front Fog Light System S914473

A: SCHEMATIC S914473A21

1. FRONT FOG LIGHT LHD MODEL S914473A2105

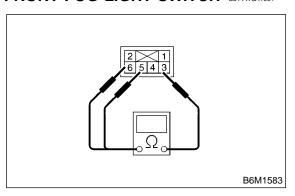


2. FRONT FOG LIGHT RHD MODEL S914473A2106



B: INSPECTION S914473A10

1. FRONT FOG LIGHT SWITCH S914473A1001



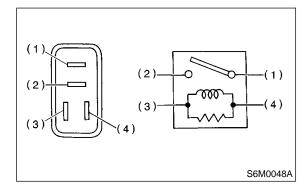
Check continuity between terminals when operating the switch.

Switch position	Tester connection	Specified condi- tion
OFF	_	No continuity
ON	3 - 5 - 6	Continuity

2. FRONT FOG LIGHT RELAY S914473A1002

Check continuity between terminals (indicated in table below) when terminal No. 4 is connected to battery and terminal No. 3 is grounded.

When current flows.	Between terminals No. 1 and No. 2	Continuity exists.
When current	Between terminals No. 1 and No. 2	Continuity does not exist.
does not flow.	Between terminals No. 3 and No. 4	Continuity exists.

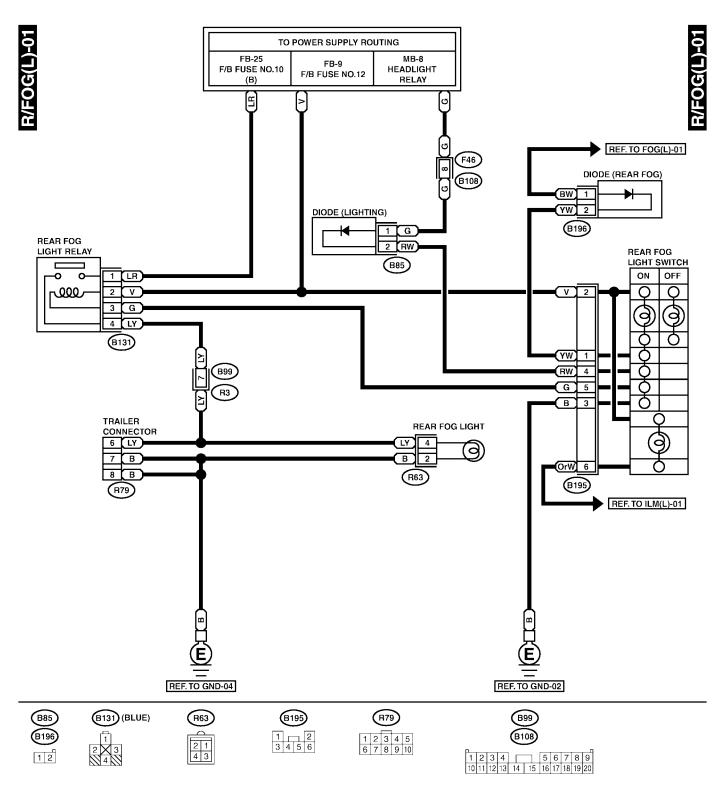


MEMO:

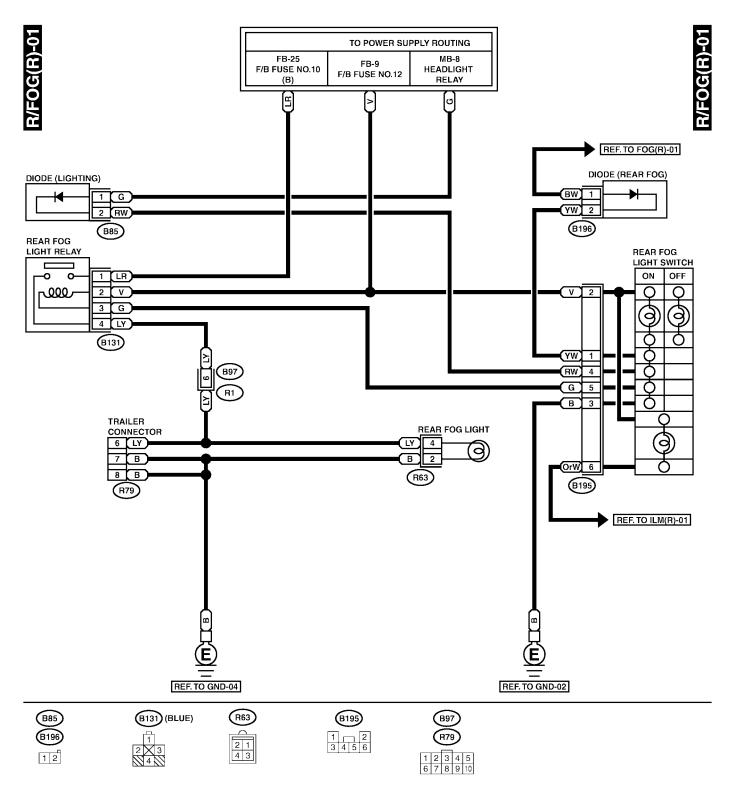
4. Rear Fog Light System S914476

A: SCHEMATIC S914476A21

1. REAR FOG LIGHT LHD MODEL S914476A2102



2. REAR FOG LIGHT RHD MODEL S914476A2103



B: INSPECTION S914476A10

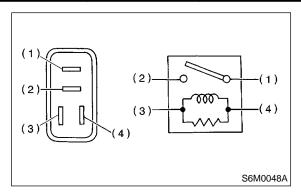
1. REAR FOG LIGHT SWITCH S914476A1001

- 1) Turn ignition switch ON.
- 2) Turn on the headlight or front fog light.3) Push the rear fog light switch and check if the rear fog light turns on.

2. REAR FOG LIGHT RELAY S914476A1002

Check continuity between terminals (indicated in table below) when terminal No. 4 is connected to battery and terminal No. 3 is grounded.

When current flows.	Between terminals No. 1 and No. 2	Continuity exists.
When current	Between terminals No. 1 and No. 2	Continuity does not exist.
does not flow.	Between terminals No. 3 and No. 4	Continuity exists.

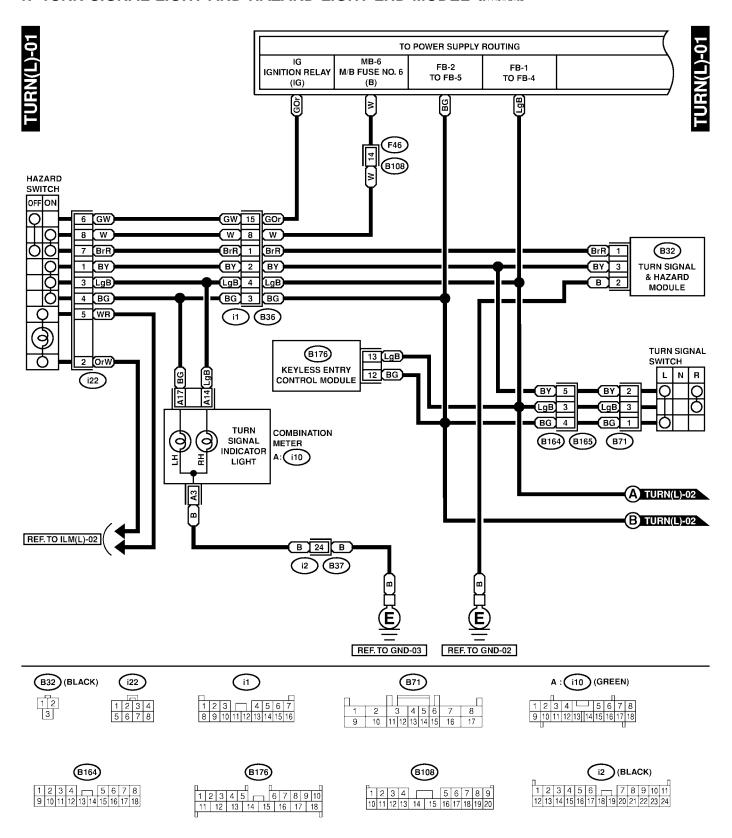


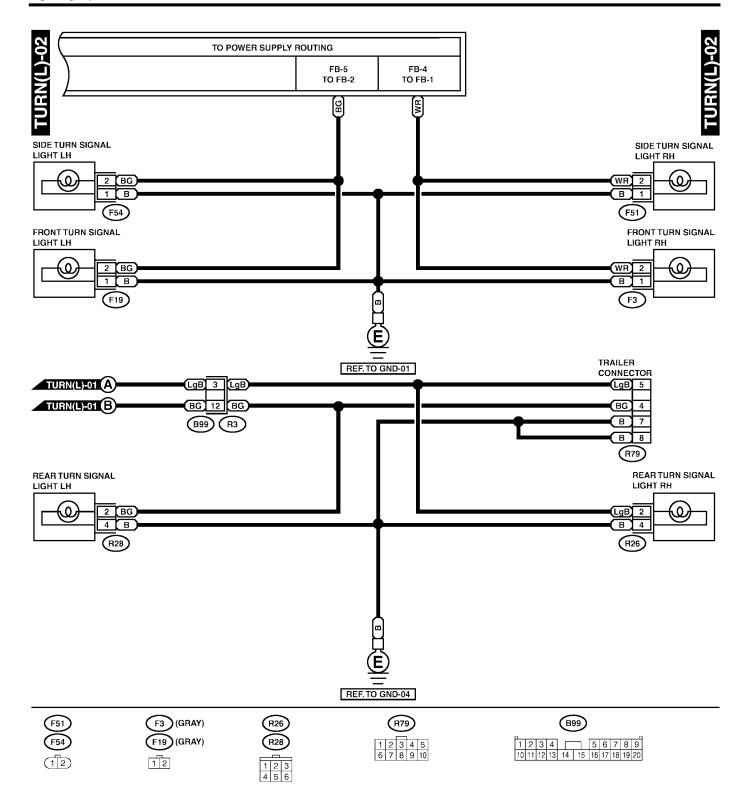
MEMO:

5. Turn Signal and Hazard Light System 5914481

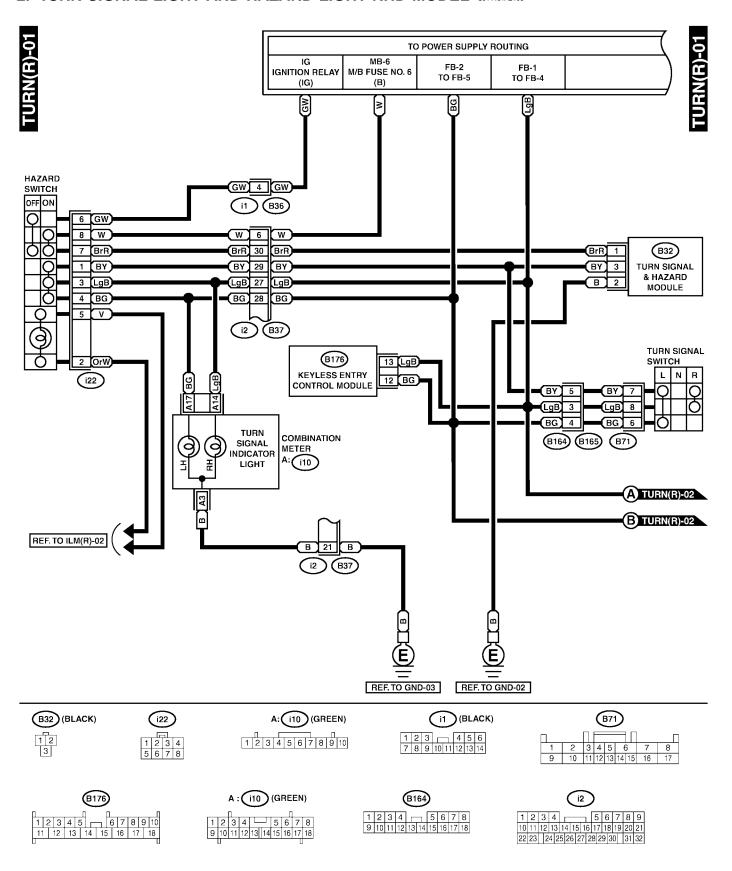
A: SCHEMATIC S914481A21

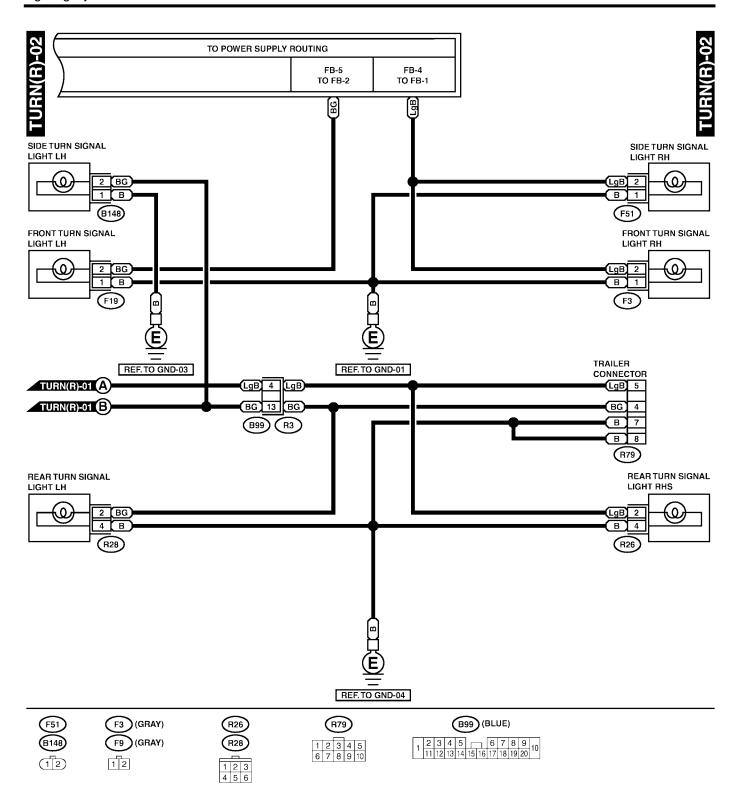
1. TURN SIGNAL LIGHT AND HAZARD LIGHT LHD MODEL S914481A2102





2. TURN SIGNAL LIGHT AND HAZARD LIGHT RHD MODEL S914481A2103



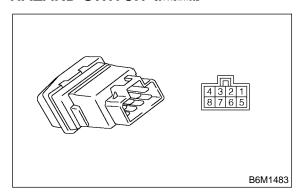


B: INSPECTION S914481A10

1. TURN SIGNAL SWITCH S914481A1001

<Ref. to LI-40 REMOVAL, Combination Switch (Light).>

2. HAZARD SWITCH S914481A1002

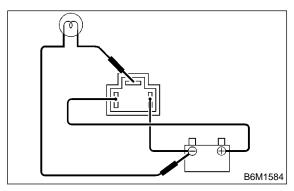


Check continuity between terminals when operating the switch.

Switch position	Tester connection	Specified condi- tion
OFF	6 - 7	Continuity
ON	1 - 3 - 4, 7 - 8	Continuity

3. TURN SIGNAL & HAZARD MODULE

S914481A1003

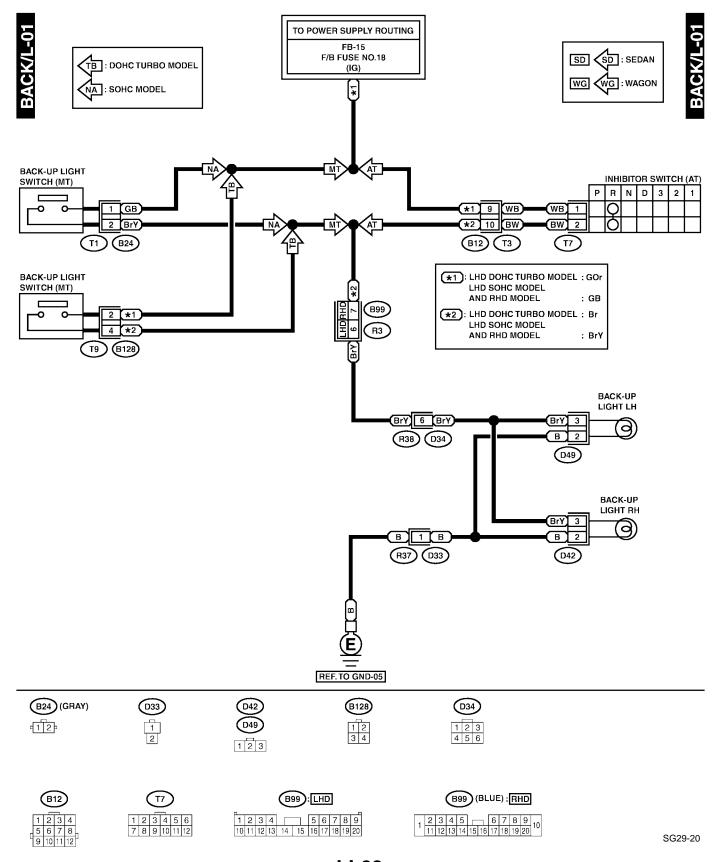


Connect battery and turn signal light bulb to the module, as shown in the figure. The module is properly functioning if it blinks when power is supplied to the circuit.

6. Back-up Light System S914414

A: SCHEMATIC S914414A21

1. BACK-UP LIGHT S914414A2101



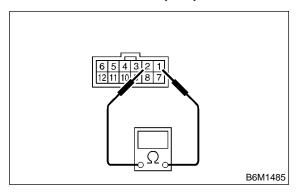
B: INSPECTION S914414A10

1. BACK-UP LIGHT SWITCH (M/T) S914414A1001

Check continuity between terminals.

Switch position	Tester connection	Specified condi- tion
When shift lever is set in reverse position	Turbo engine model: 2 - 4 Non-turbo engine	Continuity
Other positions	model: 1 - 2	No continuity

2. INHIBITOR SWITCH (A/T) S914414A1002



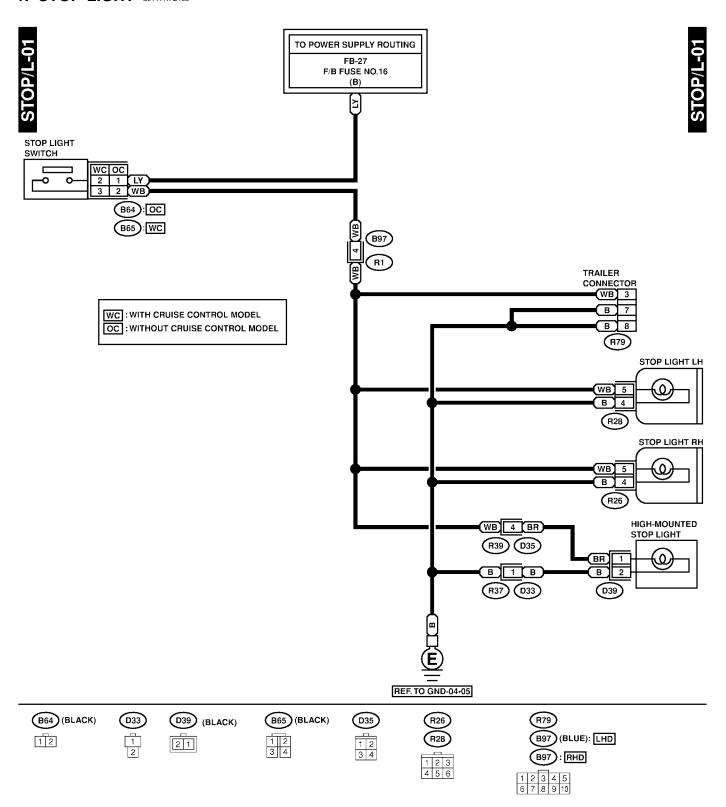
Check continuity between terminals.

Switch position	Tester connection	Specified condi- tion
When select lever is set in "R" position	1 - 2	Continuity
Other positions		No continuity

7. Stop Light System 5914417

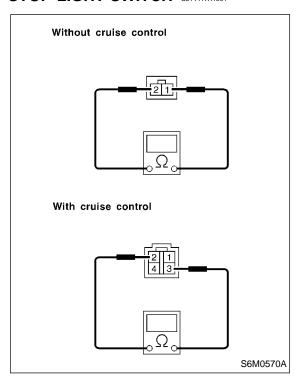
A: SCHEMATIC S914417A21

1. STOP LIGHT S914417A2103



B: INSPECTION S914417A10

1. STOP LIGHT SWITCH S914417A1001



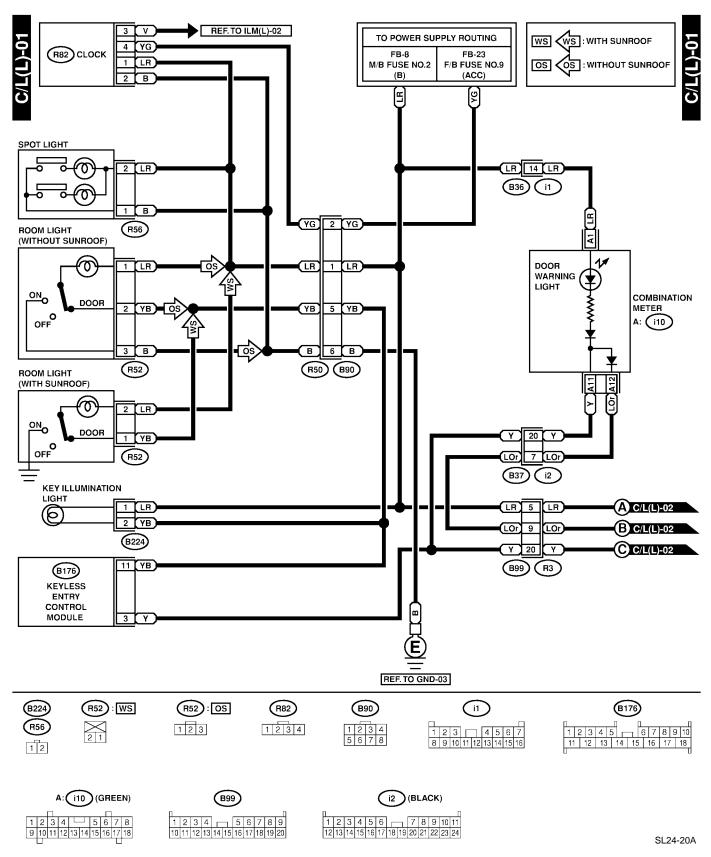
Check continuity between terminals.

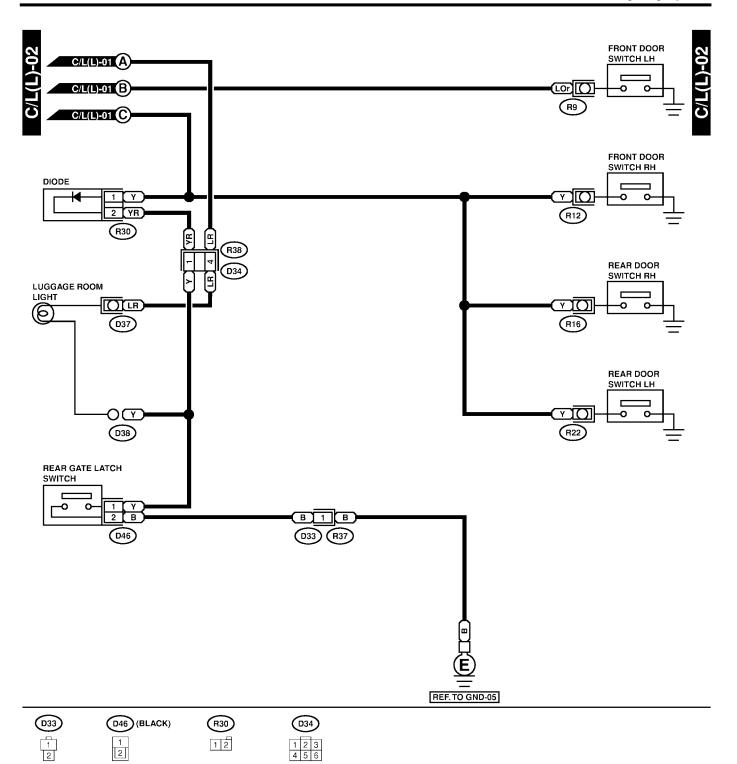
Switch position	Tester connection	Specified condi- tion
When brake pedal is depressed	1 - 2: Without cruise control 2 - 3: With cruise control	Continuity
When brake pedal is released		No continuity

8. Interior Light System S914418

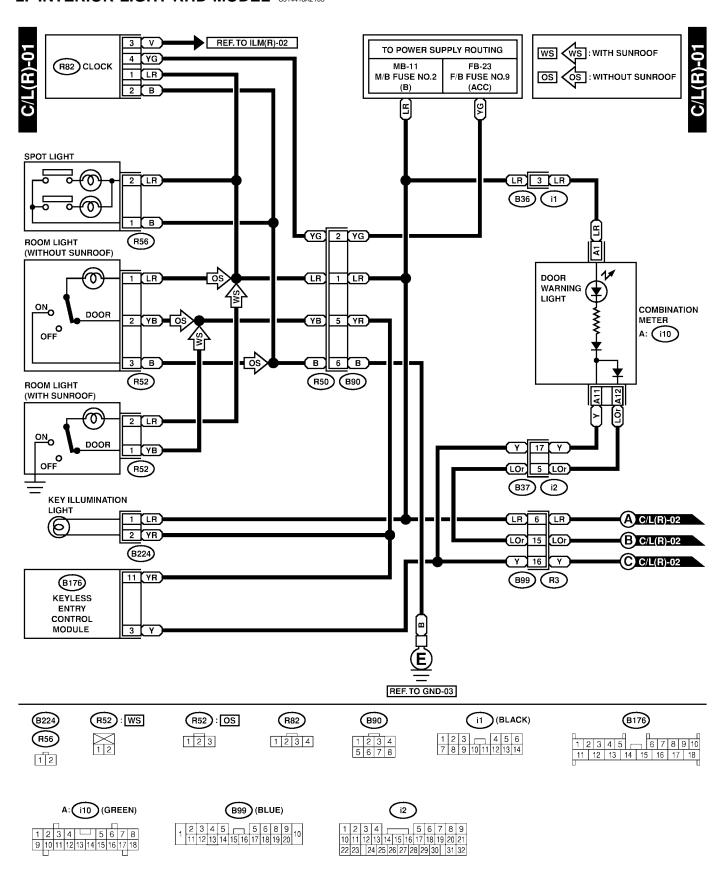
A: SCHEMATIC S914418A21

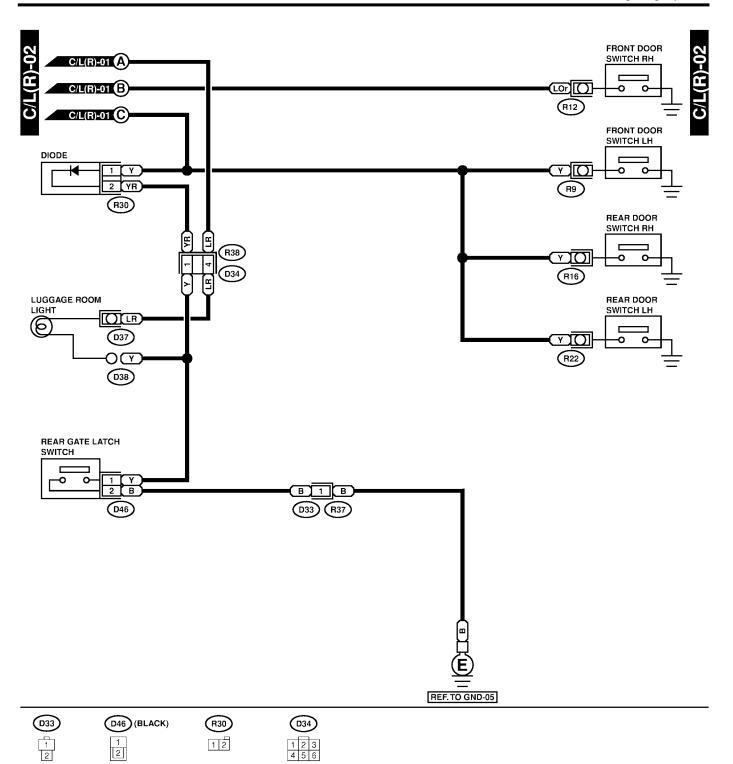
1. INTERIOR LIGHT LHD MODEL S914418A2102





2. INTERIOR LIGHT RHD MODEL S914418A2103





B: INSPECTION S914418A10

1. DOOR SWITCH S914418A1001

Check continuity between terminals.

Switch position	Tester connection	Specified condi- tion
When door is open.	1 - ground	Continuity
When door is closed.		No continuity

2. REAR GATE LATCH SWITCH S914418A1002

Check continuity between terminals.

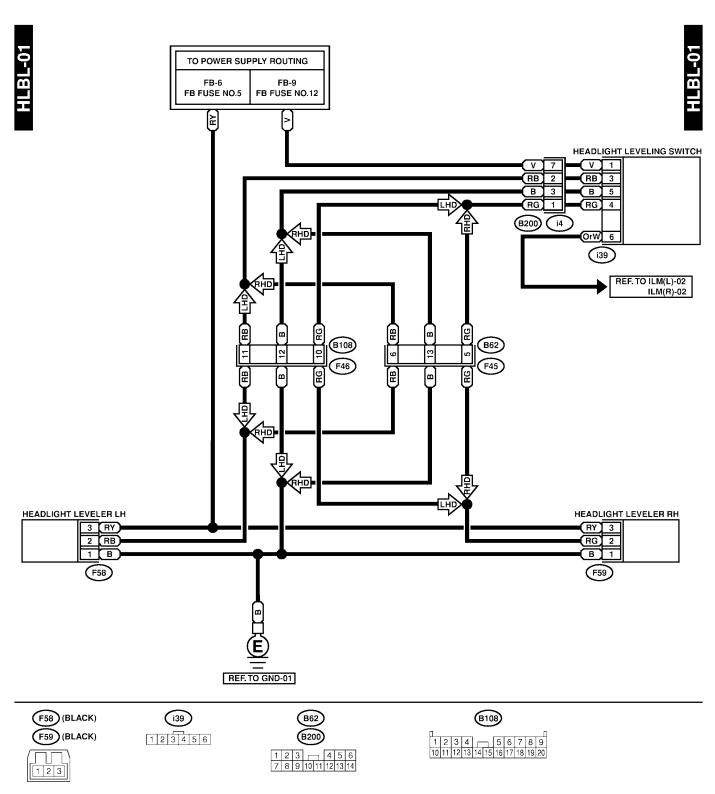
Switch position	Tester connection	Specified condi- tion
When rear gate is open.	1 - 2	Continuity
When rear gate is closed.		No continuity

MEMO:

9. Headlight Beam Leveler System 5914493

A: SCHEMATIC S914493A21

1. HEADLIGHT BEAM LEVELER S914493A2101



B: INSPECTION S914493A10

1. HEADLIGHT BEAM LEVELER ACTUATOR S914493A1001

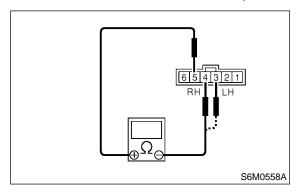
1) Turn on the headlights.

2) Confirm the headlight beam level is lowered by changing the switch position to 0 - 1 - 2 - 3 - 4 - 5.

2. HEADLIGHT BEAM LEVELER SWITCH

S914493A1002

Measure the resistance between headlight beam leveler switch terminals at each switch position.



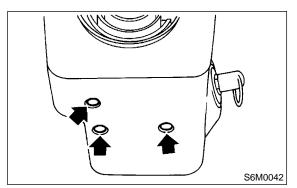
Switch position	Resistance
0	2.7 kΩ
1	1.2 kΩ
2	750 Ω
3	350 Ω
4	120 Ω
5	1 - 10 Ω

10. Combination Switch (Light)

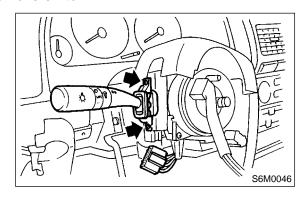
S914411

A: REMOVAL S914411A18

- 1) Remove instrument panel lower cover. <Ref. to EI-31 REMOVAL, Instrument Panel Assembly.>
- 2) Remove screws which secure upper column cover to lower column cover.



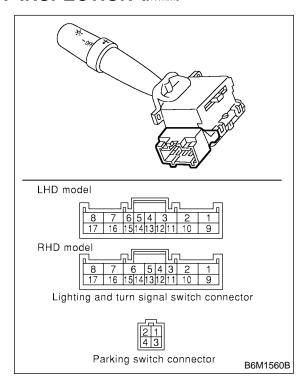
- 3) Disconnect connector from combination switch.
- 4) Remove screws which secure switch and remove switch.



B: INSTALLATION S914411A11

Install in the reverse order of removal.

C: INSPECTION S914411A10



Move combination switch to respective positions and check continuity between terminals.

1. LIGHTING SWITCH S914411A1001

LHD model:

Switch position	Tester connection	Specified condition
OFF	_	No continuity
Tail	14 - 16	Continuity
Head	13 - 14 - 16	Continuity

RHD model:

Switch position	Tester connection	Specified condi- tion
OFF	_	No continuity
Tail	9 - 15	Continuity
Head	9 - 14 - 15	Continuity

2. DIMMER AND PASSING SWITCH S914411A1002 LHD model:

Switch position	Tester connection	Specified condi- tion
Passing	7 - 8 - 16	Continuity
Low beam	16 - 17	Continuity
High beam	7 - 16	Continuity

RHD model:

Switch position	Tester connection	Specified condi- tion
Passing	1 - 2 - 9	Continuity
Low beam	9 - 10	Continuity
High beam	2 - 9	Continuity

3. TURN SIGNAL SWITCH S914411A1003

LHD model:

Switch position	Tester connection	Specified condi- tion
Left	1 - 2	Continuity
Neutral	_	No continuity
Right	2 - 3	Continuity

RHD model:

Switch position	Tester connection	Specified condi- tion
Left	6 - 7	Continuity
Neutral	_	No continuity
Right	7 - 8	Continuity

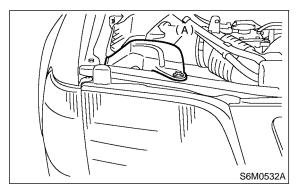
4. PARKING SWITCH S914411A1004

Switch position	Tester connection	Specified condition
OFF	2 - 4	Continuity
ON	1 - 4	Continuity

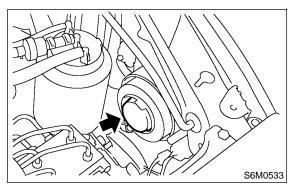
11. Headlight Assembly 5914409

A: REMOVAL S914409A18

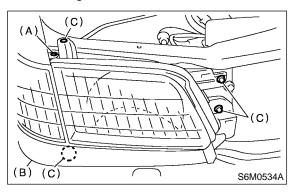
1) Remove duct (A) (when right side headlight is removed).



2) Disconnect headlight bulb connector.



- 3) Remove front grille. <Ref. to EI-10 REMOVAL, Front Grille.>
- 4) Remove screw (A) then remove front turn signal light while disconnecting connector.
- 5) Remove extension (B). <Ref. to EI-12, REMOVAL, Front Bumper.>
- 6) Remove bolts (C) which secure headlight and remove headlight.



B: INSTALLATION S914409A11

Install in the reverse order of removal.

C: ADJUSTMENT S914409A01

1. HEADLIGHT AIMING S914409A0101

CAUTION:

Turn off the light before adjusting headlight aiming. If the light is necessary to check aiming, do not turn on for more than two minutes.

NOTE:

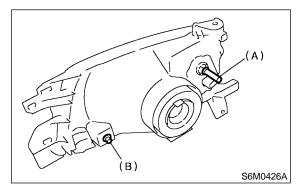
Before checking the headlight aiming, be sure of the following:

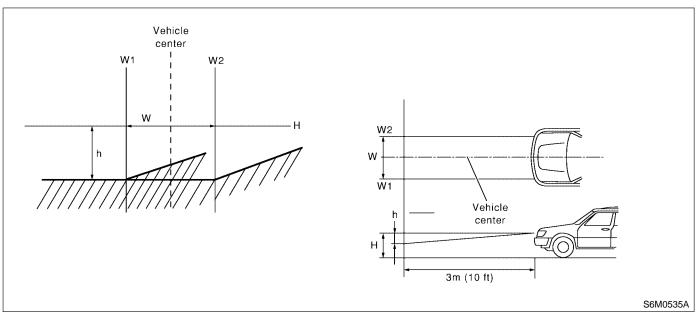
- The area around the headlight has not sustained any accident, damage or other type of deformation.
- Vehicle is parked on level ground.
- The inflation pressure of tires is correct.
- Vehicle's gas tank is fully charged.
- Bounce the vehicle several times to normalize the suspension.
- Make certain that someone is seated in the driver's seat.

Turn the headlights on and then adjust the low beam pattern to the following positions on the screen.

NOTE:

- Set the headlight leveler switch to "0" position.
- Adjust vertical aim (A) first, then horizontal aim (B).





This illustration is for LHD model.

The pattern for RHD model is symmetrically opposite.

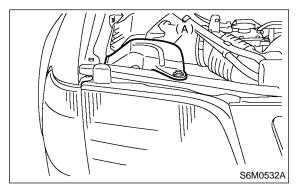
Γ	\// mm /in\	H mm (in)		h mm (in) at 2 m (10 ft)
ı	W mm (in)	Non-turbo model	Turbo model	h mm (in) at 3 m (10 ft)
Γ	1,090 (42.91)	710 (27.95)	697 (27.44)	30 (1.18)

12. Headlight Bulb S914410

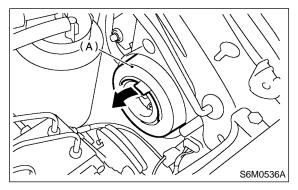
A: REMOVAL S914410A18

CAUTION:

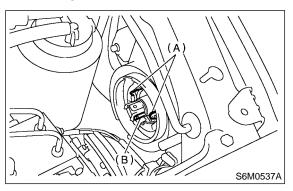
- Because the tungsten halogen bulb operates at a high temperature, dirt and oil on the bulb surface reduces the bulb's service life. Hold the flange portion when replacing the bulb. Never touch the glass portion.
- Do not leave the headlight without a bulb for a long time. Dust, moisture, etc. entering the headlight may affect its the performance.
- 1) Remove duct (A) (when right side headlight is removed).



- 2) Disconnect headlight bulb connector.
- 3) Remove back cover (A).



4) Push to remove spring retainer (A) and then detach headlight bulb (B).

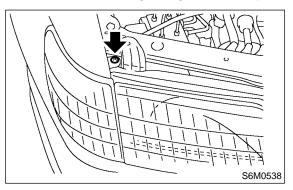


B: INSTALLATION S914410A11

13. Front Turn Signal Light Assembly S914408

A: REMOVAL S914408A18

1) Remove screw and disconnect connector, and then detach front turn signal light assembly.



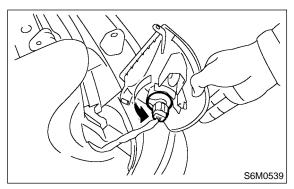
B: INSTALLATION S914408A11

14. Front Turn Signal Light Bulb S914412

A: REMOVAL S914412A18

1) Remove front turn signal light assembly. <Ref. to LI-45, REMOVAL, Front Turn Signal Light Assembly.>

2) Turn the socket and remove the bulb.

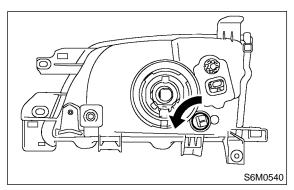


B: INSTALLATION S914412A11

15. Parking Light Bulb 5914419

A: REMOVAL S914419A18

1) Remove headlight assembly. <Ref. to LI-42 REMOVAL, Headlight Assembly.>
2) Turn the socket and remove the bulb.



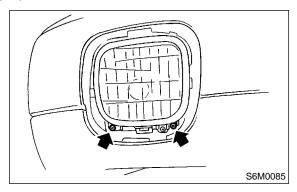
B: INSTALLATION S914419A11

16. Front Fog Light Assembly

S914427

A: REMOVAL S914427A18

1) Remove the two screws, then draw out the front fog light from front bumper.



2) Disconnect the connector.

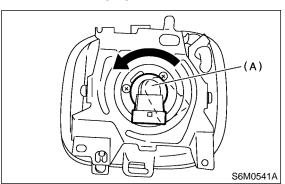
B: INSTALLATION S914427A11

17. Front Fog Light Bulb S914428

A: REMOVAL S914428A18

1) Remove front fog light assembly. <Ref. to LI-48 REMOVAL, Front Fog Light Assembly.>

2) Remove front fog light bulb (A).

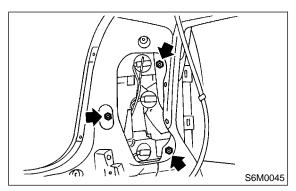


B: INSTALLATION S914428A11

18. Rear Combination Light Assembly 5914426

A: REMOVAL S914426A18

- 1) Remove rear quarter upper and lower trim. <Ref. to EI-39 REMOVAL, Rear Quarter Trim.>
- 2) Remove nuts and disconnect connector.



- 3) Attach adhesive cloth tape to body area around rear combination light.
- 4) Using a standard screwdriver, carefully pry rear combination light off.

CAUTION:

• Do not pry on the rear combination light forcefully as this may scratch the vehicle body.

B: INSTALLATION S914426A11

Install in the reverse order of removal.

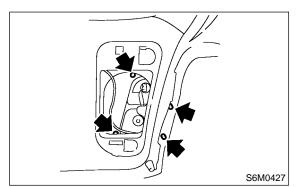
CAUTION:

- Remove all traces of adhesive tape from body before installation.
- Attach butyl rubber tape to back of rear combination light before installing rear combination light on body for sealing purposes.

19. Rear Finisher Light Assembly S914429

A: REMOVAL S914429A18

Remove rear gate trim access hole cover.
 Remove the four nuts.



3) Detach rear finisher light while disconnecting connector.

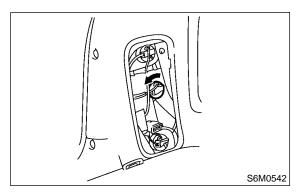
4) Install in the reverse order of removal.

B: INSTALLATION S914429A11

20. Brake/Tail Light Bulb 5914430

A: REMOVAL S914430A18

- Remove rear combination light cover.
 Turn the socket and remove the bulb.

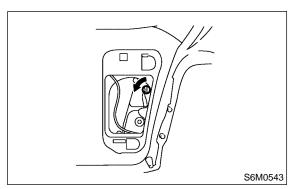


B: INSTALLATION S914430A11

21. Back-up Light Bulb 5914424

A: REMOVAL S914424A18

- Remove rear gate trim access hole cover.
 Turn the socket and remove the bulb.



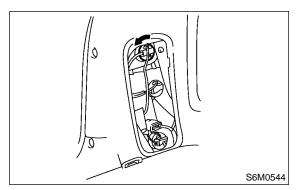
B: INSTALLATION S914424A11

22. Rear Turn Signal Light Bulb

S914421

A: REMOVAL S914421A18

- Remove rear combination light cover.
 Turn the socket and remove the bulb.



B: INSTALLATION S914421A11

23. Rear Fog Light Assembly

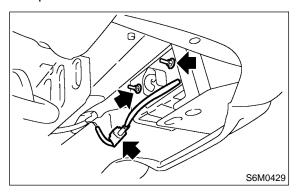
S914422

A: REMOVAL S914422A18

- 1) Disconnect connector from rear fog light.
- 2) Remove nuts and then detach rear fog light.

NOTE:

Take out rear fog light by pulling out it from behind the bumper.

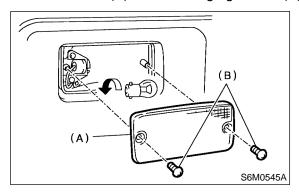


B: INSTALLATION S914422A11

24. Rear Fog Light Bulb 5914423

A: REMOVAL S914423A18

1) Remove screw (A) and rear fog light lens (B).



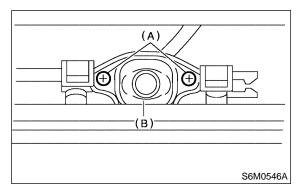
2) Remove the bulb.

B: INSTALLATION S914423A11

25. License Plate Light 5914420

A: REMOVAL S914420A18

1) Remove license plate light mounting screw (A) and then remove the lens (B)



2) Remove the bulb.

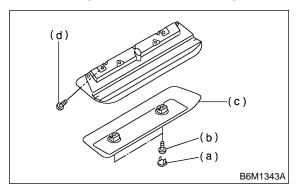
B: INSTALLATION S914420A11

26. High-mounted Stop Light

S914425

A: REMOVAL S914425A18

- 1) Remove cap (a) by prying on the edge with a screwdriver.
- 2) Remove screws (b) and then detach cover (c).
- 3) Remove screws (d) and then detach highmounted stop light while disconnecting connector.

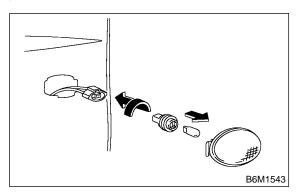


B: INSTALLATION S914425A11

27. Side Turn Signal Light 5914407

A: REMOVAL S914407A18

- 1) Pull out the light from body while pushing it in direction of vehicle front.
- 2) Disconnect harness connector and remove the light.

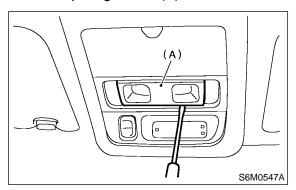


B: INSTALLATION S914407A11

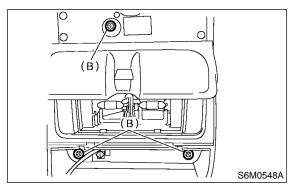
28. Spot Light S914398

A: REMOVAL S914398A18

1) Remove spot light lens (A).



- 2) Remove sunroof switch. <Ref. to SR-12, REMOVAL, Sunroof Switch.>
- 3) Remove spot light mounting screw (B).



4) Disconnect harness connectors and remove spot light.

B: INSTALLATION S914398A11

Install in the reverse order of removal.

C: INSPECTION S914398A10

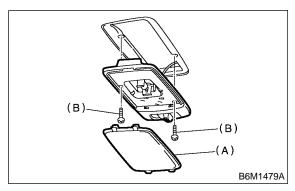
Check continuity between terminals.

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

29. Room Light S914397

A: REMOVAL S914397A18

1) Remove lens (A) and room light mounting screws (B).

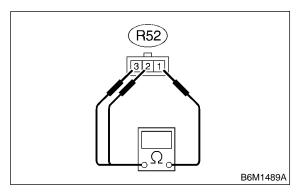


2) Disconnect harness connectors and remove the light.

B: INSTALLATION S914397A11

Install in the reverse order of removal.

C: INSPECTION S914397A10



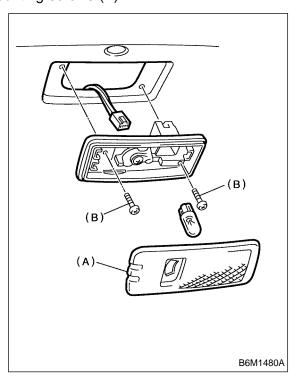
Check continuity between terminals.

Switch position	Tester connection	Specified condition
OFF	_	No continuity
ON	1 - 3	Continuity
DOOR	1 - 2	Continuity

30. Luggage Room Light 5914399

A: REMOVAL S914399A18

1) Remove lens (A) and luggage room light mounting screws (B).

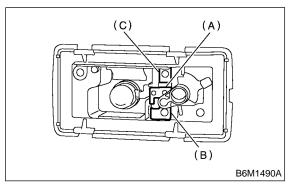


2) Disconnect harness connectors and remove luggage room light.

B: INSTALLATION S914399A11

Install in the reverse order of removal.

C: INSPECTION S914399A10



Turn the switch each position and check continuity between terminals.

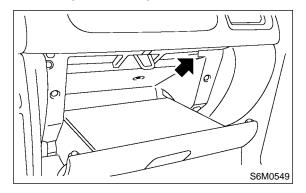
Switch position	Tester connection	Specified condi- tion
OFF	_	No continuity
ON	(A) - (C)	Continuity
DOOR	(A) - (B)	Continuity

31. Glove Box Light 5914396

A: REMOVAL S914396A18

1) Remove glove box. <Ref. to EI-28 REMOVAL, Glove Box.>

- 2) Disconnect harness connector.
- 3) Remove glove box light.



B: INSTALLATION S914396A11

MEMO: