

Headlight System

LIGHTING SYSTEM

3. Headlight System

A: WIRING DIAGRAM

Refer to "Headlight System" in the wiring diagram. <Ref. to WI-263, WIRING DIAGRAM, Headlight System.>

B: INSPECTION

1. AUTO HEADLIGHT SYSTEM CHECK

	Step	Check	Yes	No
1	CHECK HEADLIGHT ILLUMINATION. Set the lighting switch to the switch 1 (TAIL) and switch 2 (HEAD).	Do the tail and headlight illuminate?	Go to step 2.	Check the combination switch (light) and headlight bulb.
2	CHECK CURRENT DATA. Using the Subaru Select Monitor, display the data of «Lighting AUTO input». NOTE: For detailed procedures, refer to “PC application help for Subaru Select Monitor”.	Does the display switch between OFF ↔ ON when the lighting switch is moved to AUTO position?	Go to step 3.	Go to step 8.
3	CHECK CURRENT DATA. 1) Using the Subaru Select Monitor, display the data of «Illumination Sensor Output». 2) Measure the voltage when the area around the light control sensor, which was dark, becomes bright. <i>Illumination sensor output</i> <i>Dark condition: Approx. 0.6 V or less</i> <i>Bright condition: Approx. 3.0 V or more</i>	Is the voltage output according to the brightness?	Check and replace the body integrated unit. • Inspection: <Ref. to BC(diag)-2, Basic Diagnostic Procedure.> • Replacement: <Ref. to SL-74, Body Integrated Unit.>	Go to step 4.
4	CHECK HARNESS. 1) Disconnect the connectors from body integrated unit and light control sensor. 2) Check the harness between body integrated unit and light control sensor. <i>Connector & terminal</i> <i>(B280) No. 19 — (i89) No. 2:</i> <i>(B280) No. 29 — (i89) No. 1:</i> <i>(B281) No. 1 — (i89) No. 3:</i>	Is harness normal?	Go to step 5.	Repair or replace the harness.
5	CHECK HARNESS. 1) Connect the connector of body integrated unit. 2) Turn the ignition switch to ON. 3) Measure the voltage between light control sensor connector and chassis ground. <i>Connector & terminal</i> <i>(i89) No. 3 (+) — Chassis ground (-):</i>	Is the voltage 4.5 — 5.5 V?	Go to step 6.	Replace the body integrated unit. <Ref. to SL-74, Body Integrated Unit.>
6	CHECK BODY INTEGRATED UNIT. Measure the resistance between the body integrated unit and chassis ground. <i>Connector & terminal</i> <i>(B280) No. 29 — Chassis ground:</i>	Is the resistance less than 10 Ω?	Go to step 7.	Replace the body integrated unit. <Ref. to SL-74, Body Integrated Unit.>
7	CHECK LIGHT CONTROL SENSOR. 1) Connect the light control sensor connector. 2) Check the light control sensor. <Ref. to LI-25, INSPECTION, Light Control Sensor.>	Is the light control sensor normal?	Go to step 8.	Replace the light control sensor.
8	CHECK COMBINATION SWITCH (LIGHT). Check the combination switch (light). <Ref. to LI-22, INSPECTION, Combination Switch (Light).>	Is the combination switch (light) normal?	Go to step 9.	Replace the combination switch (light).

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Step	Check	Yes	No
9 CHECK HARNESS. 1) Disconnect the connectors of body integrated unit and combination switch (light). 2) Check the harness between body integrated unit and combination switch (light). Connector & terminal (B71) No. 19 — (B281) No. 16:	Is harness normal?	Check and replace the body integrated unit. • Inspection: <Ref. to BC(diag)-2, Basic Diagnostic Procedure.> • Replacement: <Ref. to SL-74, Body Integrated Unit.>	Repair or replace the harness.

2. CHECK LIGHTING SWITCH

Refer to the “INSPECTION” of the “Combination Switch (Light)”. <Ref. to LI-22, INSPECTION, Combination Switch (Light).>

3. CHECK DIMMER & PASSING SWITCH

Refer to the “INSPECTION” of the “Combination Switch (Light)”. <Ref. to LI-22, INSPECTION, Combination Switch (Light).>

C: NOTE

For operation procedures of each component of the headlight system, refer to the respective section.

- Headlight Assembly: <Ref. to LI-26, Headlight Assembly.>
- Headlight bulb: <Ref. to LI-33, Headlight Bulb.>
- Combination switch (light): <Ref. to LI-18, Combination Switch (Light).>
- Light control sensor: <Ref. to LI-24, Light Control Sensor.>