

### **13.Diagnostics with Phenomenon**

#### **A: INSPECTION**

##### **1. BEAM LEVEL CONTROL DOES NOT FUNCTION**

###### **CAUTION:**

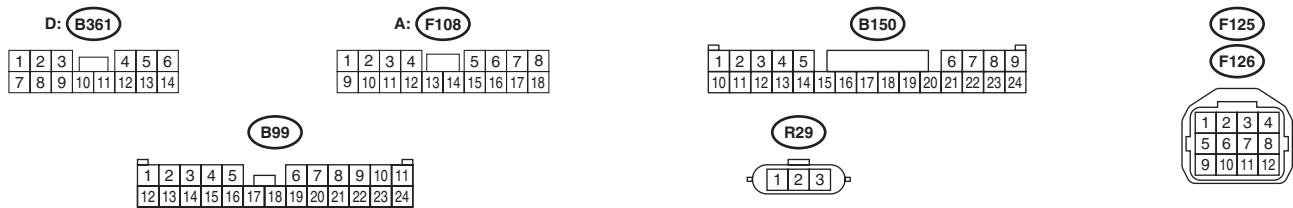
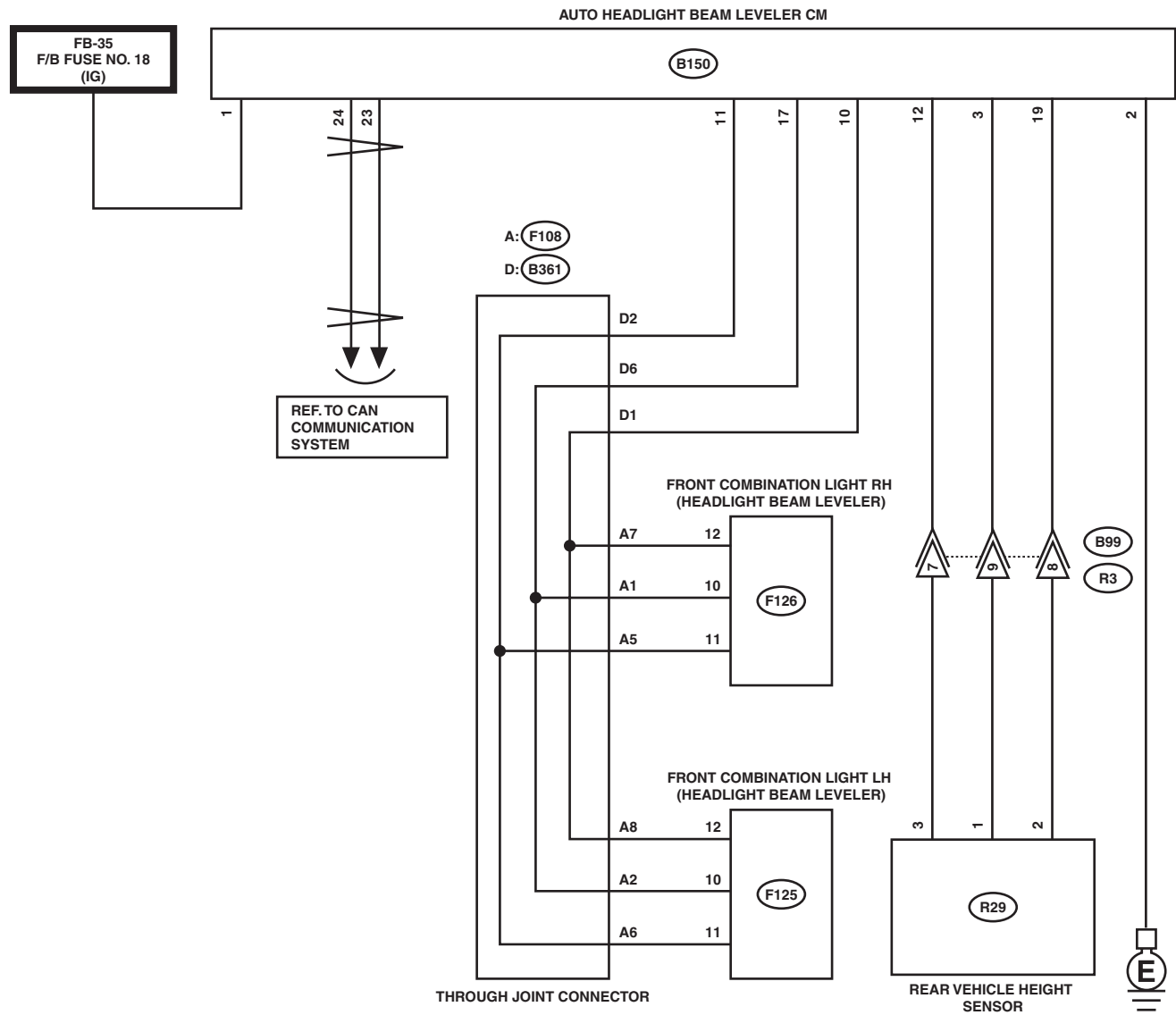
- Before performing diagnosis, check the fuse in this circuit.
- Initialization is required after replacing the auto headlight beam leveler CM.

# Diagnostics with Phenomenon

## AUTO HEADLIGHT BEAM LEVELER SYSTEM (DIAGNOSTICS)

### WIRING DIAGRAM:

Headlight beam leveler system <Ref. to WI-250, WIRING DIAGRAM, Headlight Beam Leveler System.>



LI-01701

Step	Check	Yes	No
1	<b>CHECK CURRENT DATA.</b> Display {ECU ACC} using Subaru Select Monitor.	Does the current data indicate the standard value?	Go to step 3.
			Go to step 2.

# Diagnostics with Phenomenon

## AUTO HEADLIGHT BEAM LEVELER SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
<b>2</b> <b>CHECK HARNESS BETWEEN POWER SUPPLY — AUTO HEADLIGHT BEAM LEVELER CM.</b> 1) Disconnect the auto headlight beam leveler CM connector. 2) Turn the ignition switch to ON. 3) Measure the voltage between the auto headlight beam leveler CM connector and chassis ground. <b>Connector &amp; terminal</b> <b>(B150) No. 1 (+) — Chassis ground (–):</b>	Is the voltage 8 — 16 V?	Replace the auto headlight beam leveler CM. <Ref. to LI-71, Auto Headlight Beam Leveler Control Module.>	Repair or replace the harness.
<b>3</b> <b>CHECK INDICATOR OUTPUT.</b> Turn the ignition switch to ON.	Does the warning indicator turn on for three seconds?	Go to step 5.	Go to step 4.
<b>4</b> <b>CHECK CURRENT DATA.</b> 1) Display {Indicator Signal} using Subaru Select Monitor. 2) Turn the ignition switch to ON.	Is it set as ON for 3 seconds?	Check the combination meter. <Ref. to IDI(diag)-2, Basic Diagnostic Procedure.>	Replace the auto headlight beam leveler CM. <Ref. to LI-71, Auto Headlight Beam Leveler Control Module.>
<b>5</b> <b>CHECK INDICATOR OUTPUT.</b> Leave the ignition switch to ON for 10 seconds.	Does the warning indicator light go off?	Go to step 6.	Go to step 10.
<b>6</b> <b>CHECK HEADLIGHT ASSEMBLY (ACTUATOR) DRIVE.</b> 1) Connect the auto headlight beam leveler CM connector. 2) Turn the ignition switch to ON, and within 10 seconds, repeat the OFF → 2 (HEAD) operation of headlight switch 5 times. 3) Check that the headlight beam drops once, then returns to normal. 4) Then, after waiting for 30 seconds or more with the ignition ON, turn the ignition switch to OFF.	Does the headlight beam drop down once, and then return?	Replace the auto headlight beam leveler CM. <Ref. to LI-71, Auto Headlight Beam Leveler Control Module.>	Go to step 7.
<b>7</b> <b>CHECK HEADLIGHT ASSEMBLY (ACTUATOR) OUTPUT.</b> 1) Display {Actuator Signal} using Subaru Select Monitor. 2) Turn the ignition switch to ON, and within 10 seconds, repeat the OFF → 2 (HEAD) operation of headlight switch 5 times. 3) Check that the headlight beam drops once, then returns to normal. 4) Then, after waiting for 30 seconds or more with the ignition ON, turn the ignition switch to OFF.	Does the current data indicate the standard value? (Does the value change at 10 — 90%?)	Go to step 8.	Replace the auto headlight beam leveler CM. <Ref. to LI-71, Auto Headlight Beam Leveler Control Module.>
<b>8</b> <b>CHECK OUTPUT VOLTAGE BETWEEN HEADLIGHT ASSEMBLY (ACTUATOR).</b> 1) Disconnect the auto headlight beam leveler CM connector. 2) Turn the ignition switch to ON. 3) Measure the voltage between the auto headlight beam leveler CM connector and chassis ground. <b>Connector &amp; terminal</b> <b>(B150) No. 10 (+) — Chassis ground (–):</b>	Is the voltage 8 — 16 V?	Replace the headlight assembly. <Ref. to LI-23, Headlight Assembly.>	Go to step 9.

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### AUTO HEADLIGHT BEAM LEVELER SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
<b>9</b> <b>CHECK HARNESS BETWEEN AUTO HEADLIGHT BEAM LEVELER CM AND HEADLIGHT ASSEMBLY (ACTUATOR).</b> 1) Disconnect the connector of headlight assembly. 2) Measure the continuity between the auto headlight beam leveler CM connector and headlight assembly (actuator) connector. <b>Connector &amp; terminal</b> <ul style="list-style-type: none"> <li>• <b>Headlight beam leveler RH</b>                (B150) No. 10 — (F126) No. 12:                (B150) No. 17 — (F126) No. 10:                (B150) No. 11 — (F126) No. 11:</li> <li>• <b>Headlight beam leveler LH</b>                (B150) No. 10 — (F125) No. 12:                (B150) No. 17 — (F125) No. 10:                (B150) No. 11 — (F125) No. 11:</li> </ul>	Is there continuity?	Replace the auto headlight beam leveler CM. <Ref. to LI-71, Auto Headlight Beam Leveler Control Module.>	Repair the open circuit or poor contact of the connector in the harness between headlight assembly and auto headlight beam leveler CM.
<b>10</b> <b>CHECK DTC.</b> Display DTC using the Subaru Select Monitor.	Is DTC displayed?	Perform the diagnosis according to DTC. <Ref. to AL(diag)-14, LIST, List of Diagnostic Trouble Code (DTC).>	Replace the auto headlight beam leveler CM. <Ref. to LI-71, Auto Headlight Beam Leveler Control Module.>

# WIPER AND WASHER SYSTEMS



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	Page
1. General Description .....	2
2. Relay and Fuse .....	5
3. Wiper and Washer System .....	7
4. Combination Switch (Wiper) .....	8
5. Wiper Blade .....	12
6. Washer Tank and Motor .....	14
7. Front Wiper Arm .....	19
8. Front Wiper Motor and Link .....	21
9. Front Washer Nozzle .....	25