Hazard Warning Switch Circuit

DESCRIPTION
When the hazard warning switch is turned on, the turn signal flasher relay turns on to flash the hazard warning signal lights.

WIRING DIAGRAM

INSPECTION PROCEDURE

1. PERFORM ACTIVE TEST BY INTELLIGENT TESTER

   (a) Connect the intelligent tester with CAN VIM to the DLC3.
   (b) Turn the ignition switch ON.
   (c) Turn the intelligent tester main switch on.
   (d) Select the item below in the ACTIVE TEST and then check the relay operation.

   BODY

<table>
<thead>
<tr>
<th>Item</th>
<th>Test Details/Display (Range)</th>
<th>Diagnostic Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD</td>
<td>HAZARD ON/OFF</td>
<td>-</td>
</tr>
</tbody>
</table>

   OK:
   All turn signal lights flash.

   OK ➜ Go to step 4
2 INSPECT FUSE (TRN-HAZ)

(a) Remove the TRN-HAZ fuse from the engine room R/B No.2.
(b) Measure the resistance. **Standard resistance:** Below 1 Ω
(c) Reinstall the TRN-HAZ fuse.

NG -> REPLACE FUSE

3 CHECK HARNESS AND CONNECTOR (FUSE - TURN SIGNAL FLASHER RELAY - BODY GROUND)

(a) Disconnect the E9 turn signal flasher relay connector.
(b) Measure the voltage. **Standard voltage**

<table>
<thead>
<tr>
<th>Tester Connection</th>
<th>Condition</th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>E9-4 (B) - Body ground</td>
<td>Always</td>
<td>11 to 14 V</td>
</tr>
</tbody>
</table>

(c) Measure the resistance. **Standard resistance**

<table>
<thead>
<tr>
<th>Tester Connection</th>
<th>Condition</th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>E9-7 (E) - Body ground</td>
<td>Always</td>
<td>Below 1 Ω</td>
</tr>
</tbody>
</table>

(d) Reconnect the turn signal flasher relay connector.

NG -> REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE TURN SIGNAL FLASHER RELAY
4 INSPECT AIR CONDITIONING AMPLIFIER ASSEMBLY (HAZARD WARNING SWITCH)

(a) Disconnect the E32 air conditioning amplifier connector.
(b) Measure the resistance.

**Standard resistance**

<table>
<thead>
<tr>
<th>Tester Connection</th>
<th>Condition</th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>19 (HAZ) - 20 (GND)</td>
<td>Hazard warning switch OFF</td>
<td>10 kΩ or higher</td>
</tr>
<tr>
<td>19 (HAZ) - 20 (GND)</td>
<td>Hazard warning switch ON</td>
<td>Below 3 Ω</td>
</tr>
</tbody>
</table>

(c) Reconnect the air conditioning amplifier connector.

OK → Go to step 6

5 INSPECT INTEGRATION CONTROL AND PANEL ASSEMBLY (HAZARD WARNING SWITCH)

(a) Temporarily replace the integration control and panel assembly with a new or normally functioning one.
(b) Check the hazard warning switch operation.

OK:
All turn signal lights flash.

NG → REPLACE AIR CONDITIONING AMPLIFIER ASSEMBLY

OK

END (INTEGRATION CONTROL AND PANEL ASSEMBLY IS FAULTY)
CHECK HARNESS AND CONNECTOR (AIR CONDITIONING AMPLIFIER - MAIN BODY ECU, BODY GROUND)

(a) Disconnect the E32 air conditioning amplifier connector.
(b) Disconnect the 1J main body ECU connector.
(c) Measure the resistance.
**Standard resistance**
(d) Reconnect the air conditioning amplifier connector.
(e) Reconnect the main body ECU connector.

<table>
<thead>
<tr>
<th>Tester Connection</th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>E32-19 (HAZ) - 1J-15 (HAZ)</td>
<td>Below 1 Ω</td>
</tr>
<tr>
<td>E32-19 (HAZ) or 1J-15 (HAZ) - Body ground</td>
<td>10 kΩ or higher</td>
</tr>
<tr>
<td>E32-20 (GND) - Body ground</td>
<td>Below 1 Ω</td>
</tr>
</tbody>
</table>

NG > REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE