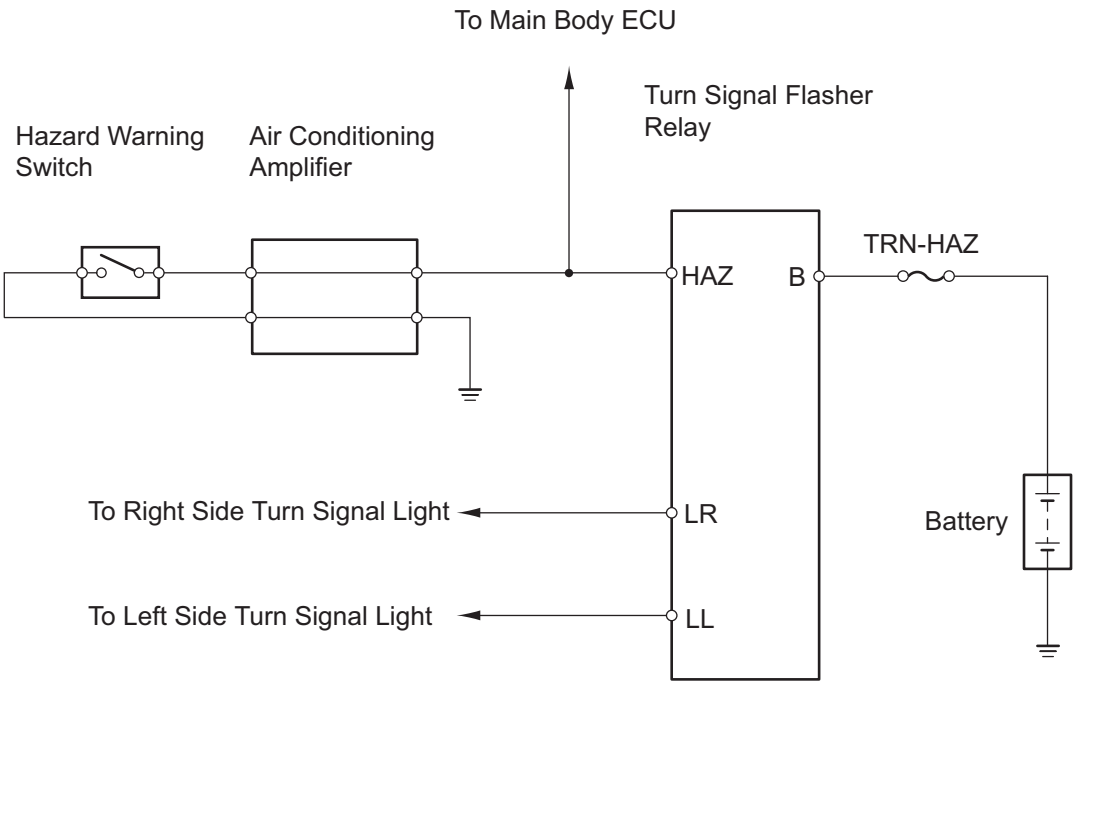
Hazard Warning Switch Circuit

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

Item	Test Details/Display (Range)	Diagnostic Note
HAZARD	HAZARD ON/OFF	-

OK:
All turn signal lights flash.

OK	Go to step 4

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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.

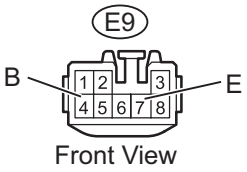
NG → **REPLACE FUSE**

OK

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

Wire Harness Side:

Turn Signal Flasher Relay Connector



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

Tester Connection	Condition	Specified Condition
E9-4 (B) - Body ground	Always	11 to 14 V

(c) Measure the resistance.
Standard resistance

Tester Connection	Condition	Specified Condition
E9-7 (E) - Body ground	Always	Below 1 Ω

(d) Reconnect the turn signal flasher relay connector.

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE TURN SIGNAL FLASHER RELAY

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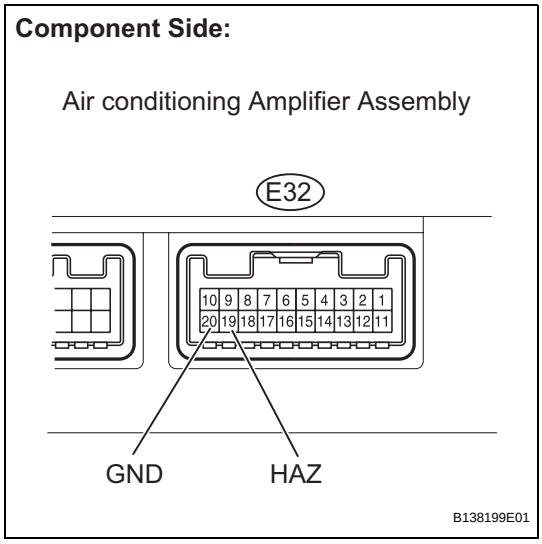
4	INSPECT AIR CONDITIONING AMPLIFIER ASSEMBLY (HAZARD WARNING SWITCH)



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

Tester Connection	Condition	Specified Condition
19 (HAZ) - 20 (GND)	Hazard warning switch OFF	10 kΩ or higher
19 (HAZ) - 20 (GND)	Hazard warning switch ON	Below 3 Ω

(c) Reconnect the air conditioning amplifier connector.

OK → **Go to step 6**

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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**

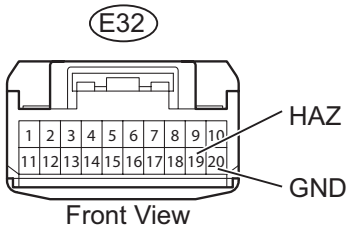
OK

END (INTEGRATION CONTROL AND PANEL ASSEMBLY IS FAULTY)

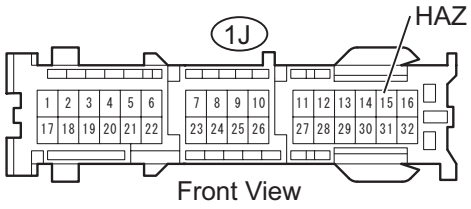
6	CHECK HARNESS AND CONNECTOR (AIR CONDITIONING AMPLIFIER - MAIN BODY ECU, BODY GROUND)

Wire Harness Side:

Air Conditioning Amplifier Connector



Main Body ECU Connector



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

Standard resistance

Tester Connection	Specified Condition
E32-19 (HAZ) - 1J-15 (HAZ)	Below 1 Ω
E32-19 (HAZ) or 1J-15 (HAZ) - Body ground	10 kΩ or higher
E32-20 (GND) - Body ground	Below 1 Ω

(d) Reconnect the air conditioning amplifier connector.
(e) Reconnect the main body ECU connector.

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

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