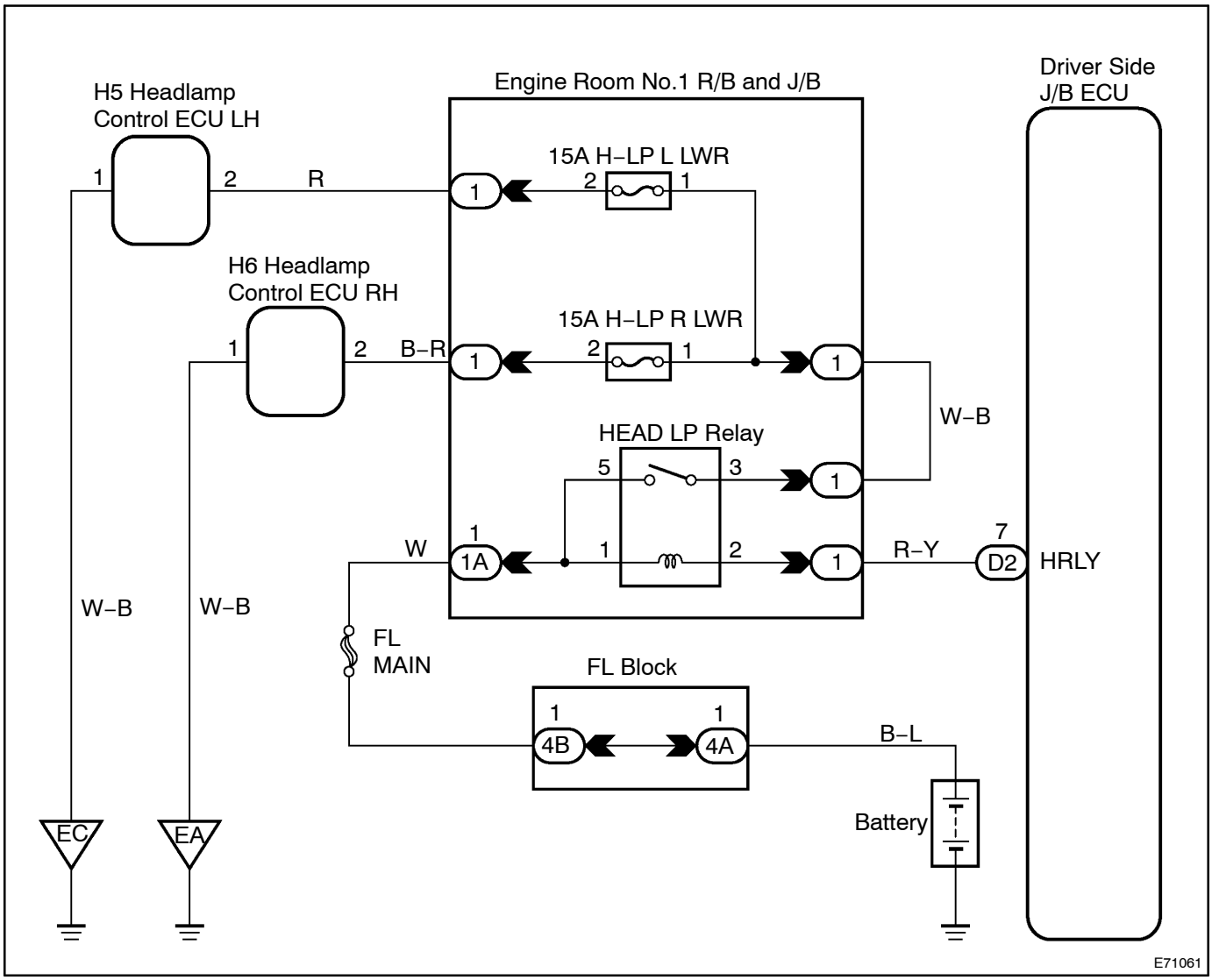
HEADLIGHT RELAY CIRCUIT

CIRCUIT DESCRIPTION

The headlight relay is turned ON by operating the headlight switch.
When the theft deterrent system is activated, it causes the ECU to turn the headlight relay on and off repeatedly at approximately 0.25 second intervals to flash the headlights.
In this condition, if any of the following operations is done, the ECU turns the headlight relay off to stop the headlamp from flashing:

- Unlock the driver door with a key.
- Turn the ignition switch to ACC or ON position.
- Unlock the doors with the wireless door lock control system.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	PERFORM ACTIVE TEST ON INTELLIGENT TESTER II

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

BODY NO.2 (DRIVER SIDE JUNCTION BLOCK ECU):

Item	Test Details	Diagnostic Note
Headlight Relay	Headlamp relay ON/OFF	–

OK: Headlamp comes on.

NG → **Go to step 2**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05–1369)

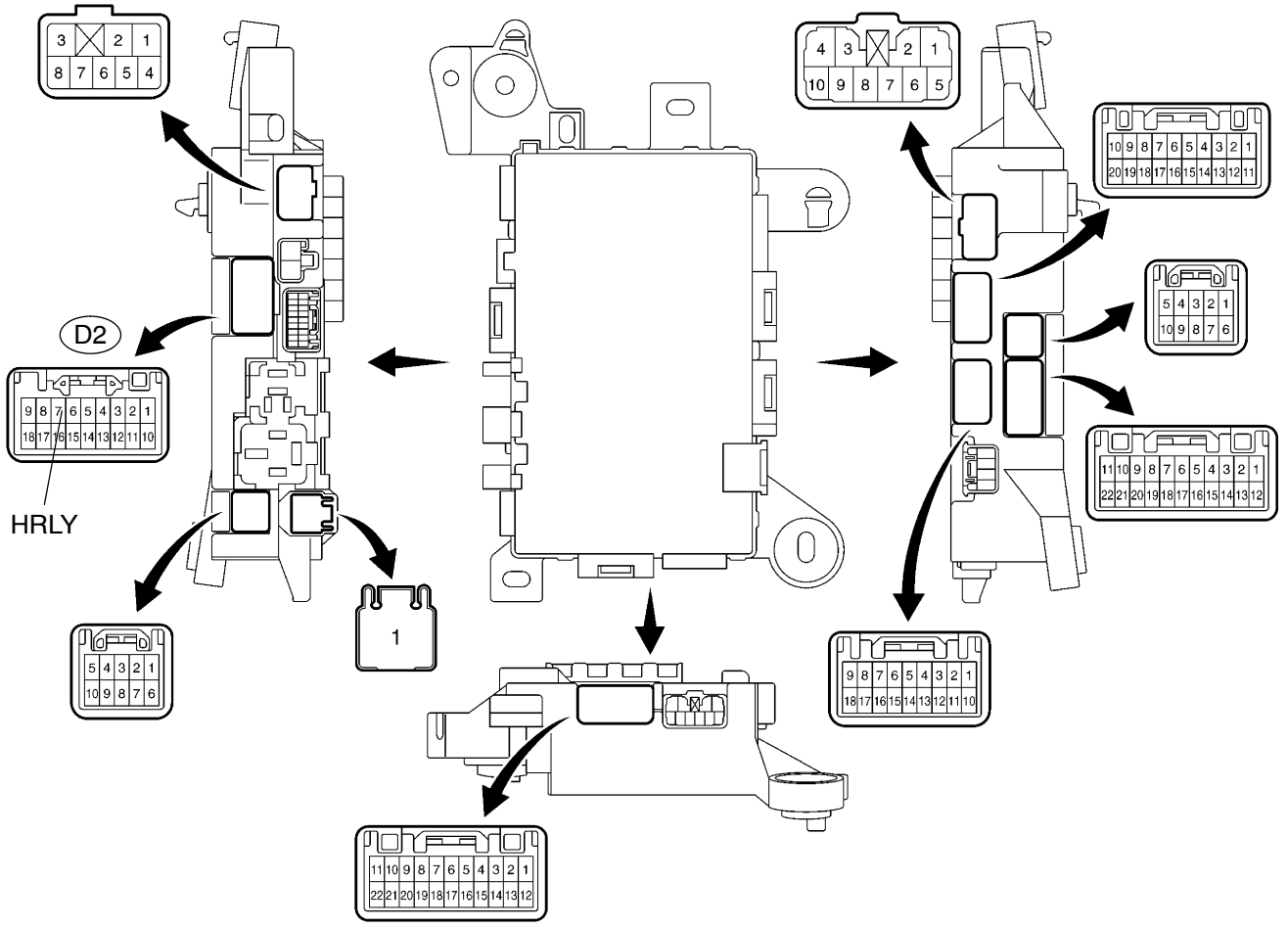
2	INSPECT DRIVER SIDE JUNCTION BLOCK

(a) Disconnect the D2 connector from the driver side junction block.

(b) Using a service wire, connect the D2–7 on the wire harness side and body ground.

OK: Headlamp comes on.

Driver Side Junction Block
Connector Front View:



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HINT:
This illustration is for RHD model. The RHD and LHD models are symmetrical.

NG	Go to step 3

OK

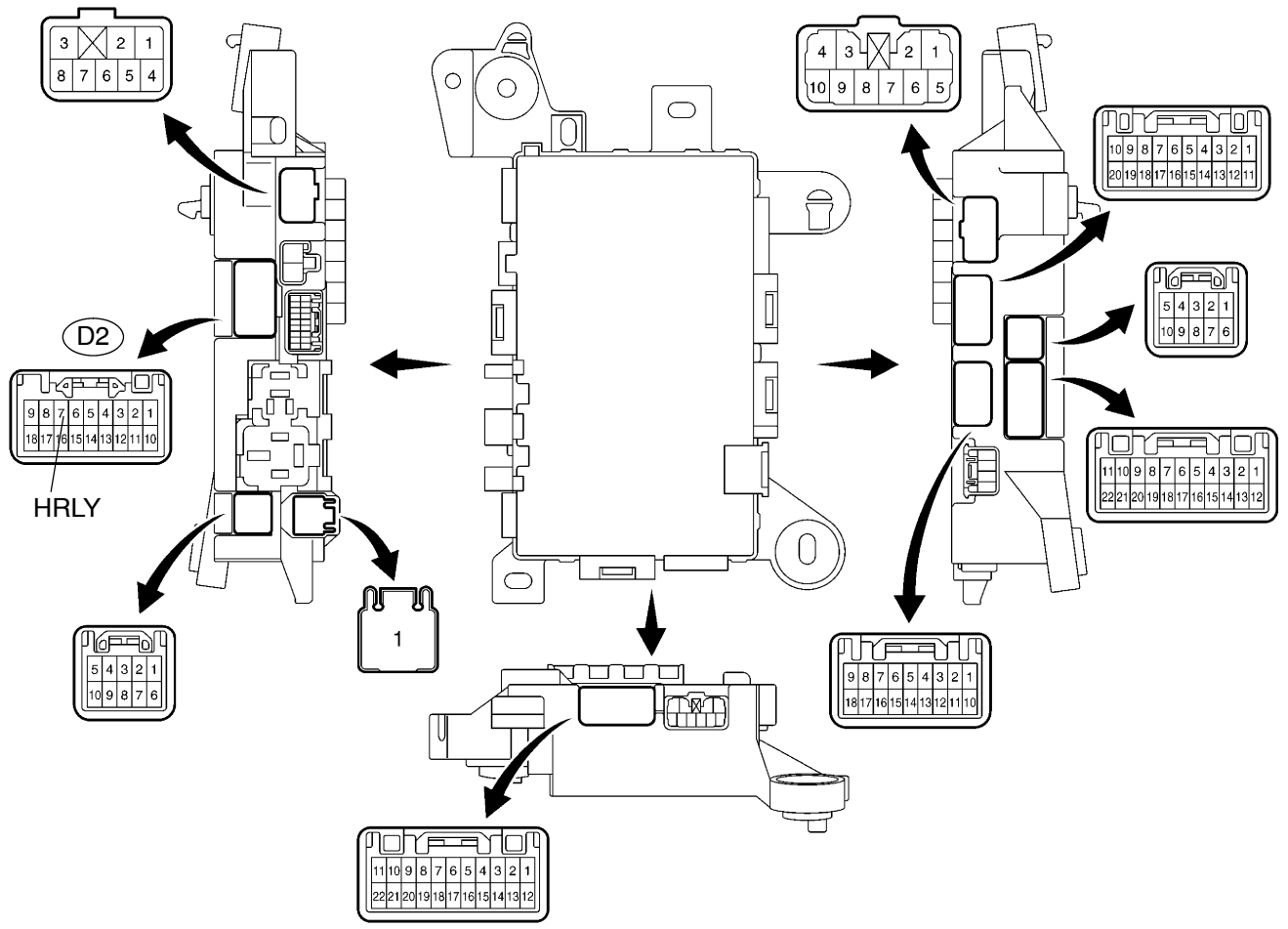
PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–1369)

3	**CHECK HARNESS AND CONNECTOR**

(a) Measure the voltage according to the value(s) in the table below.
Standard:

Tester Connection	Condition	Specified Condition
D2–7 – Body ground	Always	10 to 14 V

Driver Side Junction Block
Connector Front View:

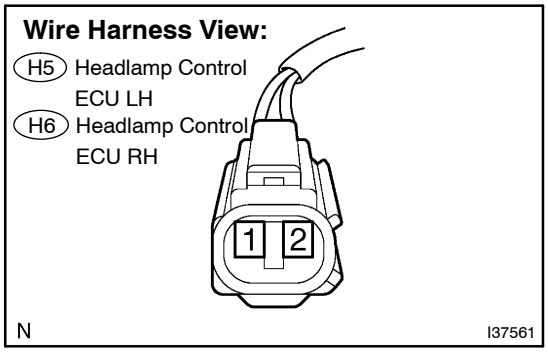


HINT:
This illustration is for RHD model. The RHD and LHD models are symmetrical.

NG	**REPAIR OR REPLACE HARNESS OR CONNECTOR (POWER SOURCE CIRCUIT)**

OK

4	CHECK HARNESS AND CONNECTOR(HEADLAMP CIRCUIT)



(a) Using a service wire, connect D2–7 and body ground.
(b) Measure the voltage according to the value(s) in the table below.

HINT:

Inspect the side the suspected malfunctioning part is on.

Standard:

Tester Connection	Condition	Specified Condition
H5–2 – Body ground	Always	10 to 14 V
H6–2 – Body ground	Always	10 to 14 V

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

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (GROUND CIRCUIT)