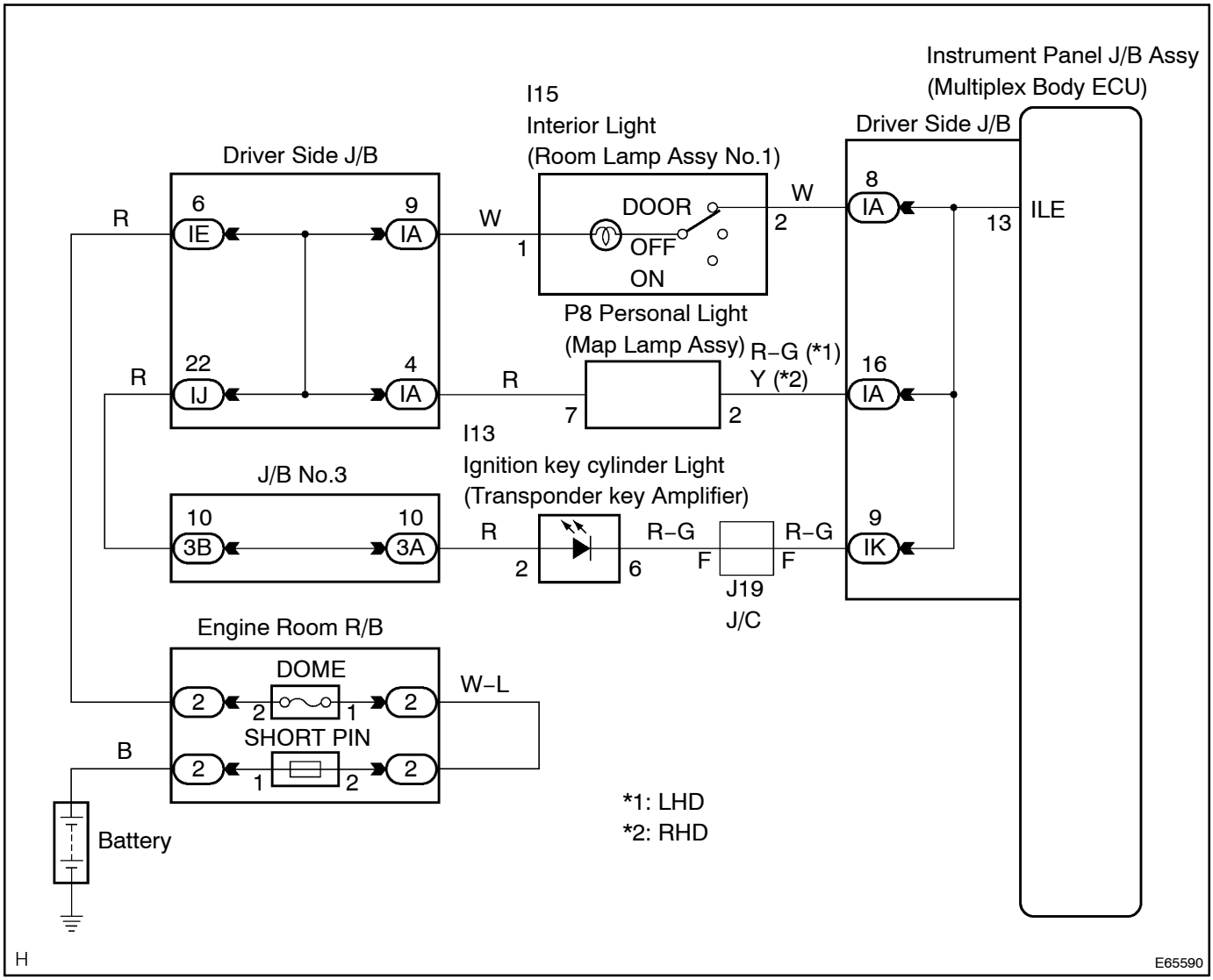
# ILLUMINATION CIRCUIT

## CIRCUIT DESCRIPTION

The Multiplex body ECU controls illumination lamp as shown on below.

(1) Room lamp assy No.1 (Interior light) with DOOR position
(2) Map lamp assy (Personal light)
(3) Transponder key amplifier (Ignition key cylinder light)

## WIRING DIAGRAM



# INSPECTION PROCEDURE

HINT:
Start the inspection from step 1 in the case of using the hand–held tester, and start from step 2 in the case of not using the hand–held tester.

## 1 PERFORM ACTIVE TEST BY HAND–HELD TESTER

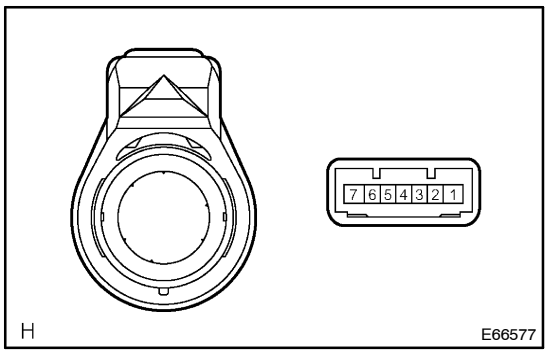
(a) Connect the hand–held tester to DLC3.
(b) Turn the ignition switch ON and push the hand–held tester main SW ON.
(c) Select the item below in the ACTIVE TEST and then check that the relay operates.

| Item | Test Details | Diagnostic Note |
|---|---|---|
| ILLUMI OUTPUT | (Test Details)<br>Turns Interior light and Key illumination ON/OFF<br>(Vehicle Condition)<br>Interior light SW is in Door position and all doors are closed | – |

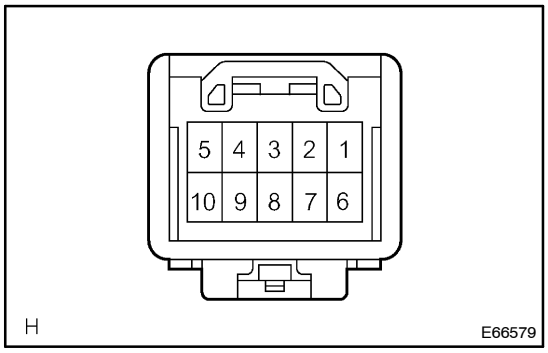
**OK** → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (SEE PAGE 05–1346)**

**NG**

## 2 INSPECT ILLUMINATION LIGHT

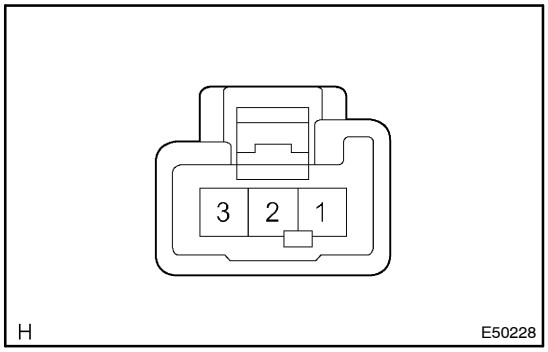



(a) Inspect the transponder key amplifier
(1) Connect the battery positive (+) lead to terminal 2 and the battery negative (–) lead to terminal 6, and check that the indicator light comes on.




(b) Inspect the map lamp assy
(1) Check that the continuity between terminals at each switch position as shown in the chart.

| Switch operation | Tester connection | Specified condition |
|---|---|---|
| OFF | – | No continuity |
| DOOR | 7(+B) – 2(DOOR) | Continuity |




(c) Inspect the room lamp assy No.1

(1) Check that there is continuity between terminals at each switch position as shown in the chart.

**Standard:**

| Switch operation | Tester connection | Specified condition |
|---|---|---|
| OFF | – | No continuity |
| DOOR | 1 – 2 | Continuity |

**NG** → **REPLACE ILLUMINATION LIGHT**

**OK**

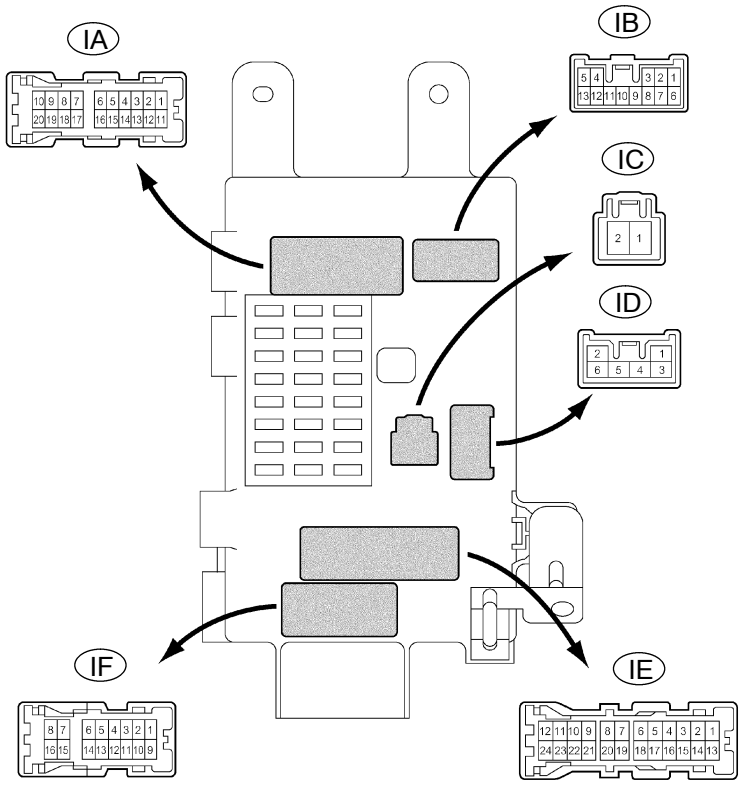
| 3 | INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSY(ILE) |
|---|---|

(a) Measure voltage between terminal ILE of the instrument panel J/B and body ground.

**Standard:**

| Terminal No. | Condition | Specified condition |
|---|---|---|
| IA–8, IA–16, IK–9 ⇔ body ground (ILE ⇔ body ground) | Interior light SW is in Door position and doors all closed → One of the door opened | 10–14 V → 0 V |

**Instrument Panel J/B**




**OK** → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (SEE PAGE 05–1346)**

**NG**

**CHECK AND REPLACE HARNESS OR CONNECTOR**