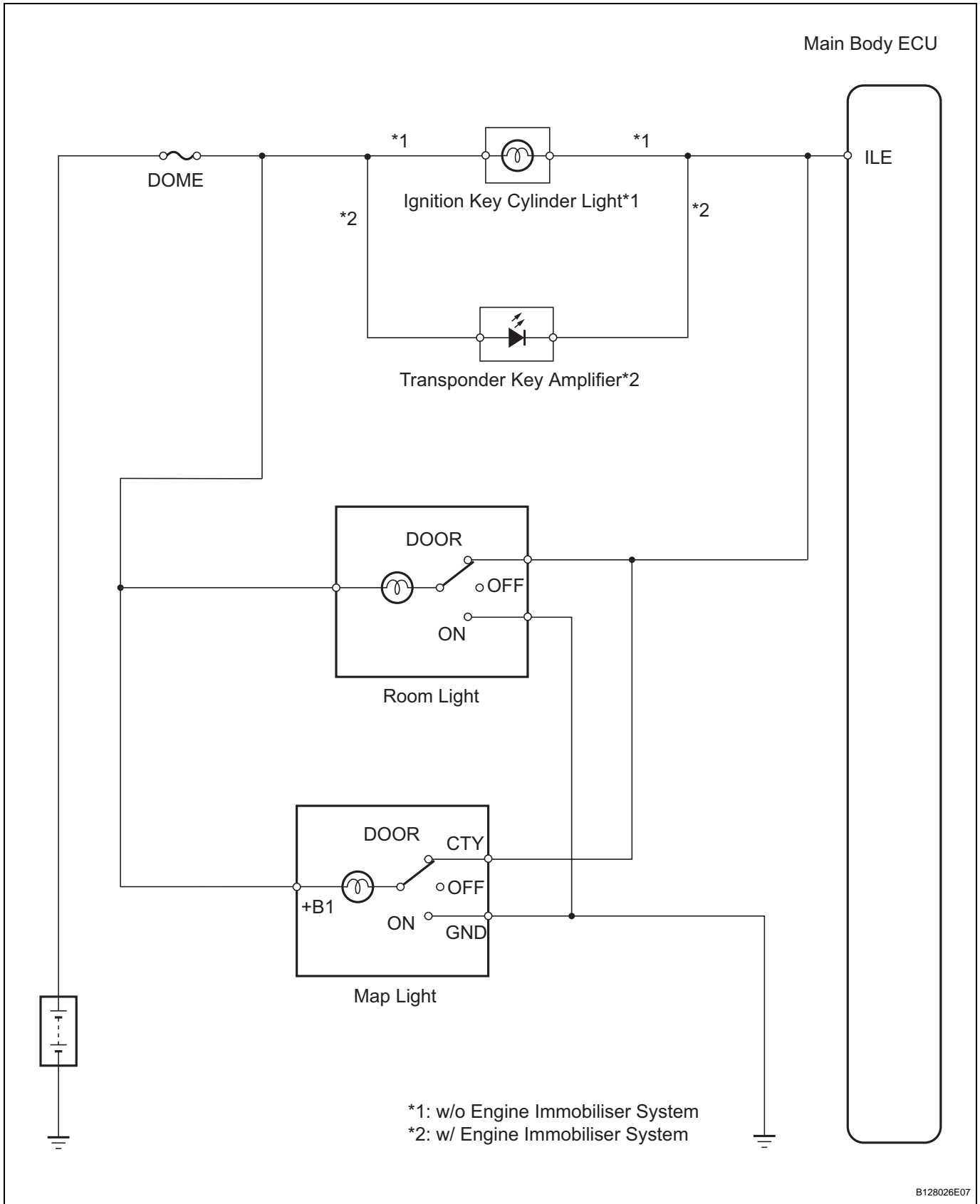


Illumination Circuit

DESCRIPTION

The main body ECU receives information regarding the door courtesy switch and door lock position switch, and turns on the room light.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 PERFORM ACTIVE TEST BY INTELLIGENT TESTER (MAIN BODY ECU)

- (a) Connect the intelligent tester (with CAN VIM) to the DLC3.
- (b) Turn the ignition switch to the ON position and press the intelligent tester main switch ON.
- (c) Select the items below in the ACTIVE TEST and then check the main body ECU operation.

Main body ECU

Item	Test Details	Diagnostic Note
ILLUMI OUTPUT	Test Details: Turn interior light and key illumination ON/ OFF Vehicle Condition: Interior light SW is in DOOR position and all doors are closed	-

OK:
Light comes on.

OK → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

NG

2 INSPECT FUSE (DOME)

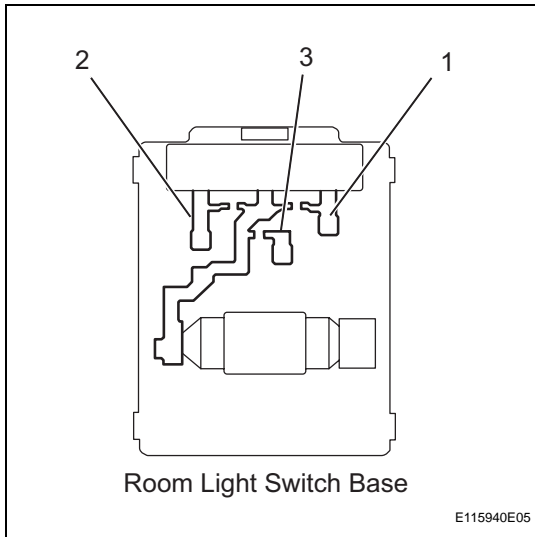
- (a) Remove the DOME fuse from the engine room No. 2 relay block.
- (b) Measure the resistance of the fuse.

Standard resistance:
Below 1 Ω

NG → **REPLACE FUSE**

OK

3 INSPECT ROOM LIGHT ASSEMBLY



- (a) Remove the room light assembly.
- (b) Measure the resistance of the room light switch base.

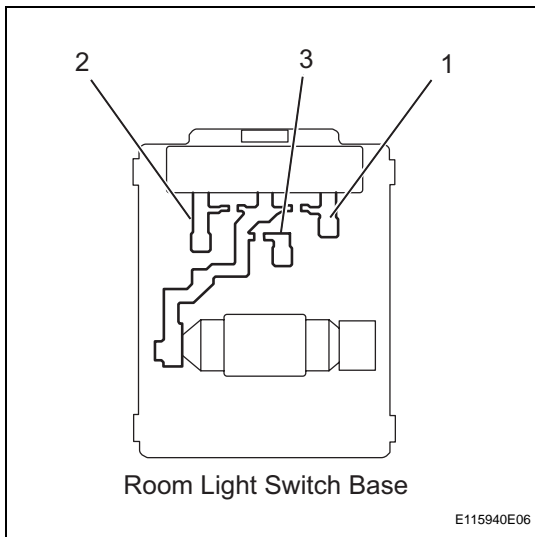
Standard resistance

Tester Connection	Switch Condition	Specified Condition
1 - 2	OFF	10 kΩ or higher
1 - 3		
1 - 2	DOOR	Below 1 Ω
1 - 3	ON	Below 1 Ω

NG → **REPLACE ROOM LIGHT ASSEMBLY**

OK

4 INSPECT ROOM LIGHT BULB



- (a) Remove the room light assembly.
- (b) Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2, then check that the light comes on when the switch is in the DOOR position.

OK:

Light comes on.

- (c) Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 3, then check that the light comes on when the switch is in the ON position.

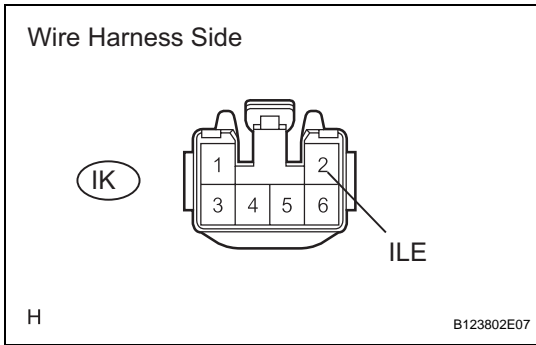
OK:

Light comes on.

NG → **REPLACE BULB**

OK

5 CHECK HARNESS AND CONNECTOR (BATTERY - ROOM LIGHT AND MAIN BODY ECU)



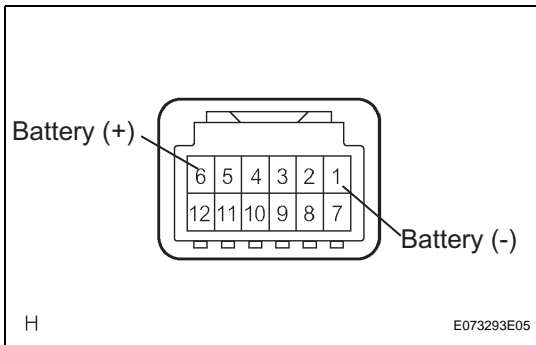
- (a) Disconnect the IK instrument panel junction block connector.
- (b) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Condition	Specified Condition
IK-2 (ILE) - Body ground	Room light switch in DOOR position	10 to 14 V

NG **REPAIR OR REPLACE HARNESS AND CONNECTOR**

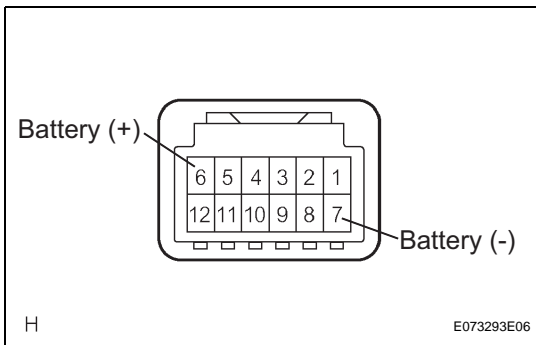
OK

6 INSPECT MAP LIGHT BULB



- (a) Remove the map light assembly.
- (b) Connect the positive (+) lead from the battery to terminal 6 and the negative (-) lead to terminal 1, then check that the light comes on when the switch is in the DOOR position.

OK:
Light comes on.



- (c) Connect the positive (+) lead from the battery to terminal 6 and the negative (-) lead to terminal 7, then check that the light comes on when the switch is in the ON position.

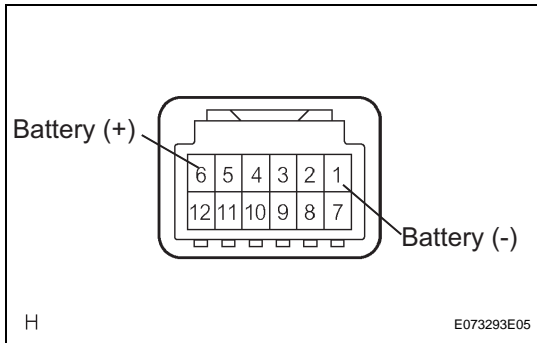
OK:
Light comes on.

OK **Go to step 8**

NG

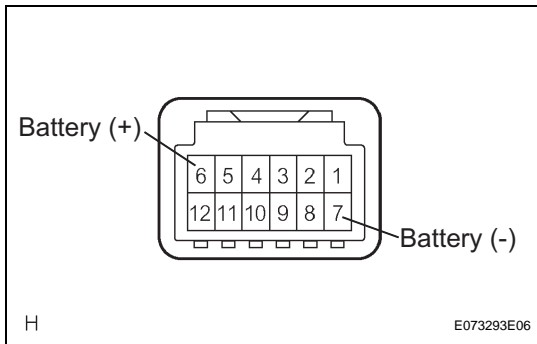


7 INSPECT MAP LIGHT



- (a) Replace the map light bulb with a normally functioning one or a new one.
- (b) Connect the positive (+) lead from the battery to terminal 6 and the negative (-) lead to terminal 1, then check that the light comes on when the switch is in the DOOR position.

OK:
Light comes on.



- (c) Connect the positive (+) lead from the battery to terminal 6 and the negative (-) lead to terminal 7, then check that the light comes on when the switch is in the ON position.

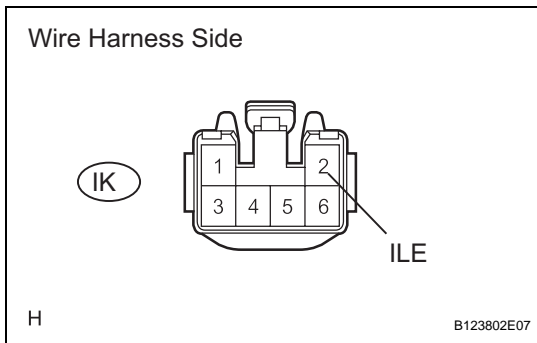
OK:
Light comes on.

NG → **REPLACE MAP LIGHT ASSEMBLY**

OK

REPLACE MAP LIGHT BULB

8 CHECK WIRE HARNESS (BATTERY - MAP LIGHT AND MAIN BODY ECU)



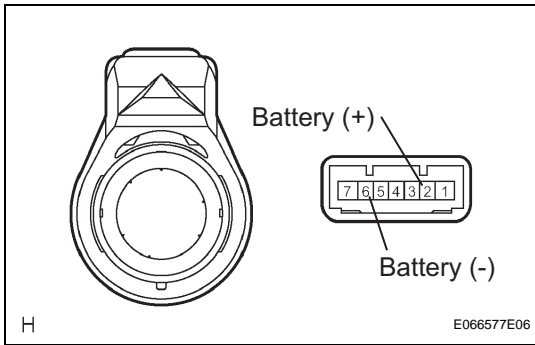
- (a) Disconnect the IK instrument panel junction block connector.
- (b) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Condition	Specified Condition
IK-2 (ILE) - Body ground	Room light switch in DOOR position	10 to 14 V

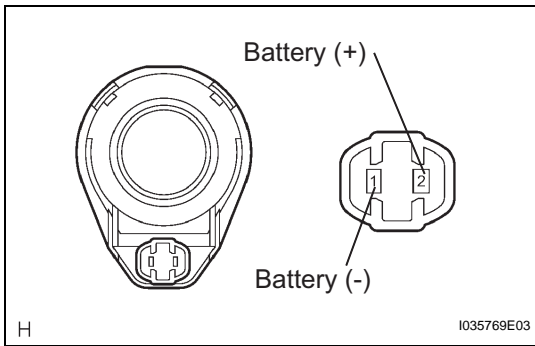
NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

9 INSPECT IGNITION KEY CYLINDER LIGHT



- (a) w/ Engine Immobiliser System
- (1) Remove the transponder key amplifier (ignition key cylinder light).
 - (2) Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 6, then check that the light comes on.
- OK:**
Light comes on.

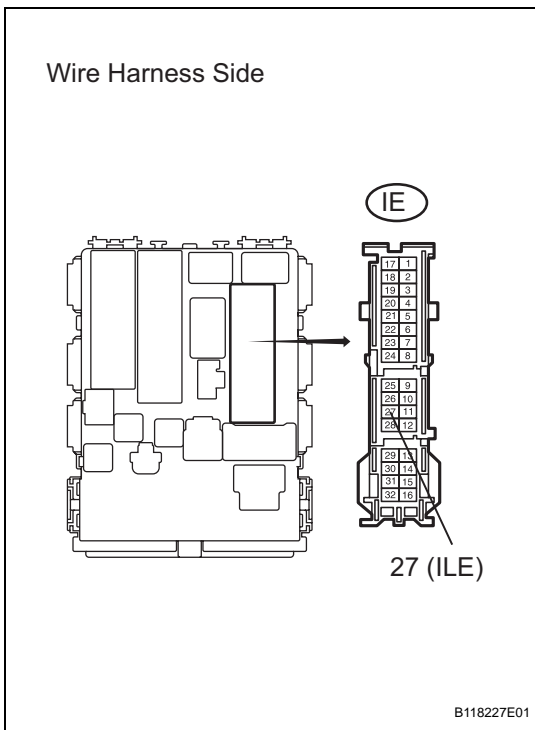


- (b) w/o Engine Immobiliser System
- (1) Remove the ignition key cylinder light.
 - (2) Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 1, then check that the light comes on.
- OK:**
Light comes on.

NG **REPLACE IGNITION KEY CYLINDER LIGHT**

OK

10 CHECK WIRE HARNESS (BATTERY - MAIN BODY ECU)



- Disconnect the IE instrument panel junction block connector.
- Measure the voltage of the wire harness side connector.

Tester Connection	Specified Condition
IE-27 (ILE) - Body ground	10 to 14 V

NG **REPAIR OR REPLACE HARNESS AND CONNECTOR**



OK

REPLACE INSTRUMENT PANEL JUNCTION BLOCK

