

DATA LIST / ACTIVE TEST

1. READ DATA LIST

HINT:

Using the intelligent tester's DATA LIST allows switch, actuator and other item values to be read without removing any parts. Reading the DATA LIST early in troubleshooting is one way to save time.

- (a) Connect the intelligent tester (with CAN VIM) to the DLC3.
- (b) Turn the ignition switch ON.
- (c) Read the DATA LIST.

Main body ECU

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
KEY UNLOCK WARNING SW	Unlock warning switch signal / ON or OFF	ON: Key is in ignition key cylinder OFF: No key is in ignition key cylinder	-
D DOOR COURTESY SW	Driver side door courtesy switch signal / ON or OFF	ON: Driver side door is open OFF: Driver side door is closed	-

Key Reminder Buzzer does not Sound

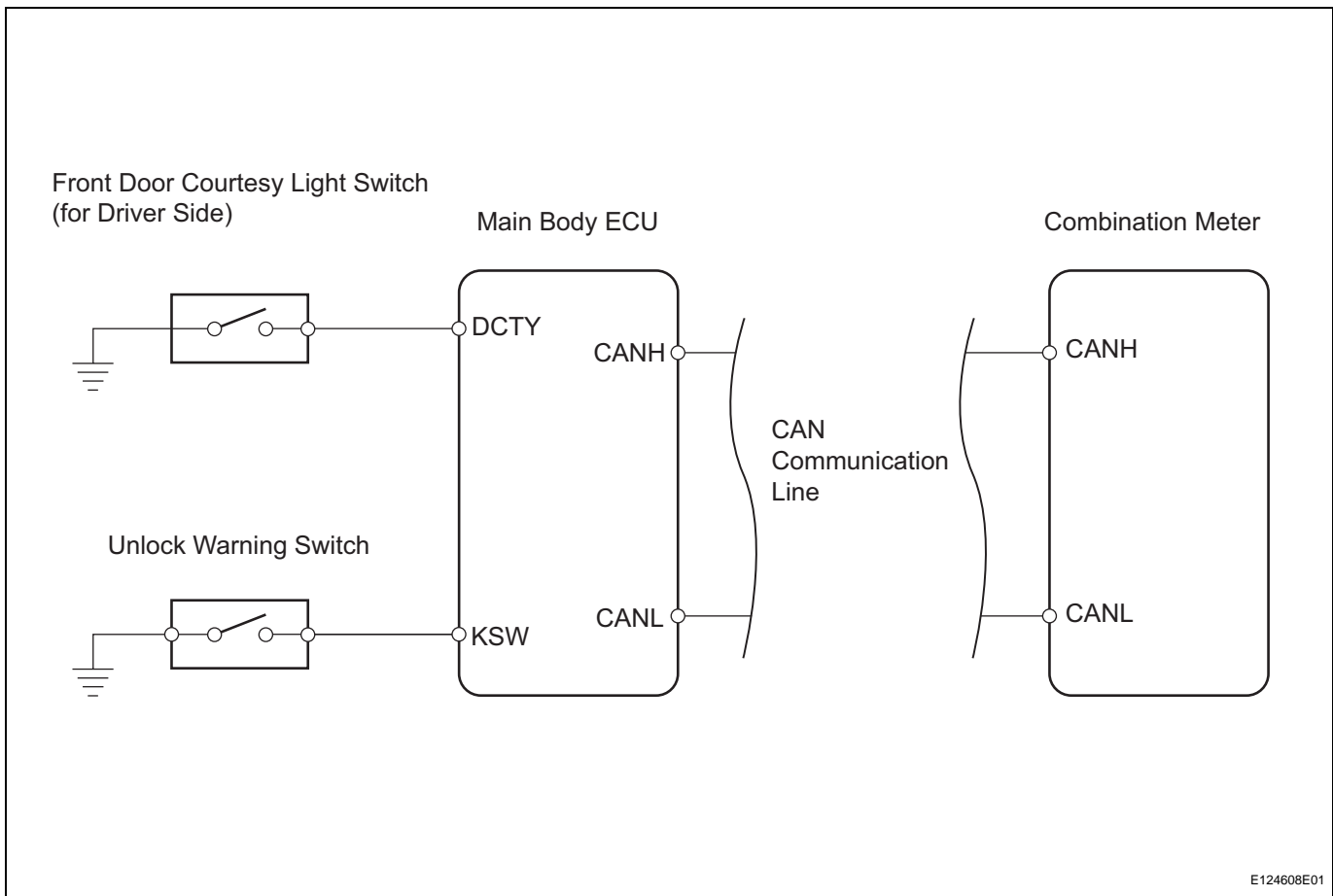
DESCRIPTION

The key reminder warning buzzer sounds when the driver side door is opened while the ignition switch is in the LOCK or ACC positions. The key reminder warning buzzer is activated when the main body ECU sends a key switch signal and driver side courtesy switch signal to the combination meter.

HINT:

Since the key reminder warning system has functions that use CAN communication, first confirm that there is no malfunction in the communication system by inspecting the CAN communication functions in accordance with the "HOW TO PROCEED WITH TROUBLESHOOTING" procedures. Then, conduct the following inspection procedure.

WIRING DIAGRAM



DL INSPECTION PROCEDURE

1

READ VALUE USING INTELLIGENT TESTER (FRONT DOOR COURTESY LIGHT SWITCH)

- (a) Check the DATA LIST to ensure proper operation of the front door courtesy light switch.

Main body ECU

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
D DOOR COURTESY SW	Driver side door courtesy switch signal / ON or OFF	ON: Driver side door is open OFF: Driver side door is closed	-

OK:

"ON" (driver door is open) appears on the screen.

NG

Go to step 5

OK

2

READ VALUE USING INTELLIGENT TESTER (UNLOCK WARNING SWITCH)

- (a) Check the DATA LIST to ensure proper operation of the door unlock warning switch.

Main body ECU

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
KEY UNLOCK WARNING SW	Unlock warning switch signal / ON or OFF	ON: Key is in ignition key cylinder OFF: No key is in ignition key cylinder	-

OK:

"ON" (key is in ignition key cylinder) appears on the screen.

OK

REPLACE COMBINATION METER ASSEMBLY

NG

3

INSPECT UNLOCK WARNING SWITCH ASSEMBLY

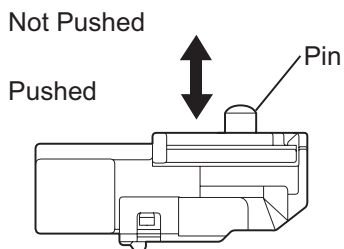
- (a) Remove the unlock warning switch.
(b) Measure the resistance of the switch.

Standard resistance

Tester Connection	Condition	Specified Condition
1 - 2	Not pushed	10 k Ω or higher
1 - 2	Pushed	Below 1 Ω

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REPLACE UNLOCK WARNING SWITCH ASSEMBLY

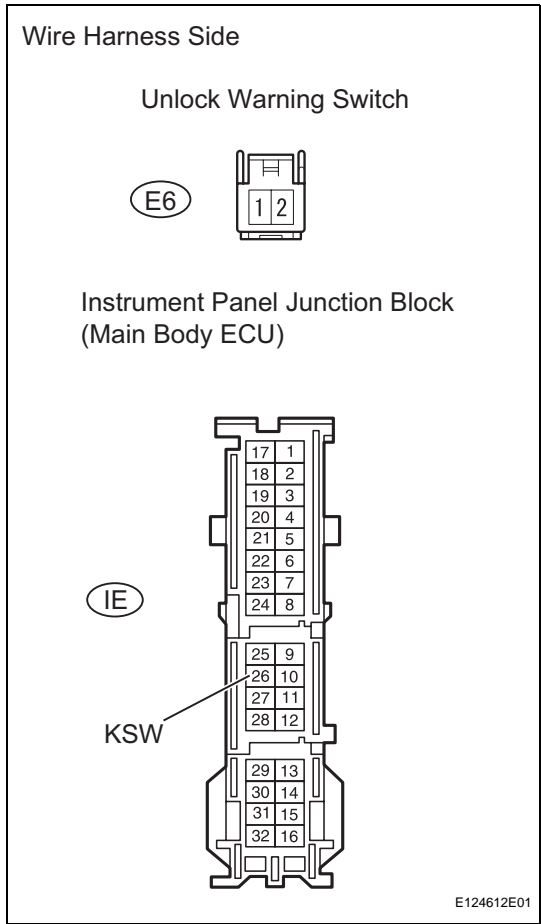


DL

OK

4

CHECK WIRE HARNESS (UNLOCK WARNING SWITCH - MAIN BODY ECU)



OK

- (a) Disconnect the E6 switch connector.
- (b) Disconnect the IE junction block connector.
- (c) Measure the resistance between the wire harness side connectors.

Standard resistance

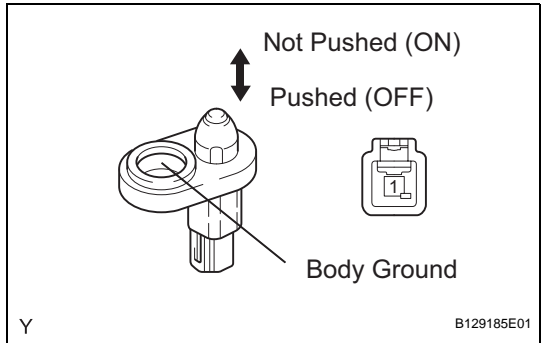
Tester Connection	Specified Condition
E6-1 - IE-26 (KSW)	Below 1 Ω
E6-2 - Body ground	Below 1 Ω

NG REPAIR OR REPLACE HARNESS AND CONNECTOR

REPLACE INSTRUMENT PANEL JUNCTION BLOCK (MAIN BODY ECU)

5

INSPECT FRONT DOOR COURTESY LIGHT SWITCH (for Driver Side)



OK

- (a) Remove the courtesy light switch.
- (b) Measure the resistance of the switch.

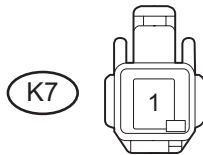
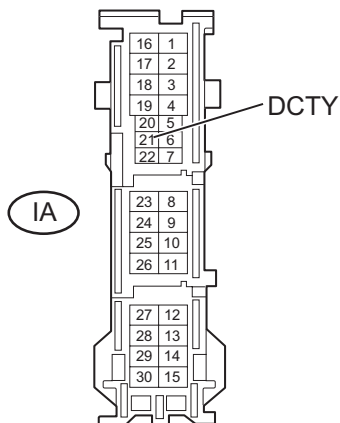
Standard resistance

Tester Connection	Condition	Specified Condition
1 - Body ground	Not pushed (ON)	Below 1 Ω
1 - Body ground	Pushed (OFF)	10 kΩ or higher

NG REPLACE FRONT DOOR COURTESY LIGHT SWITCH (for Driver Side)

6**CHECK WIRE HARNESS AND CONNECTORS (FRONT DOOR COURTESY LIGHT SWITCH - MAIN BODY ECU)**

Wire Harness Side

Front Door Courtesy Light Switch
(for Driver Side)Instrument Panel Junction Block
(Main Body ECU)

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- (a) Disconnect the K7 connector.
- (b) Disconnect the IA junction block connector.
- (c) Measure the resistance between the wire harness side connectors.

Standard resistance

Tester Connection	Specified Condition
K7-1 - IA-21 (DCTY)	Below 1 Ω

NG**REPAIR OR REPLACE HARNESS AND CONNECTOR****OK****REPLACE INSTRUMENT PANEL JUNCTION BLOCK (MAIN BODY ECU)****DL**