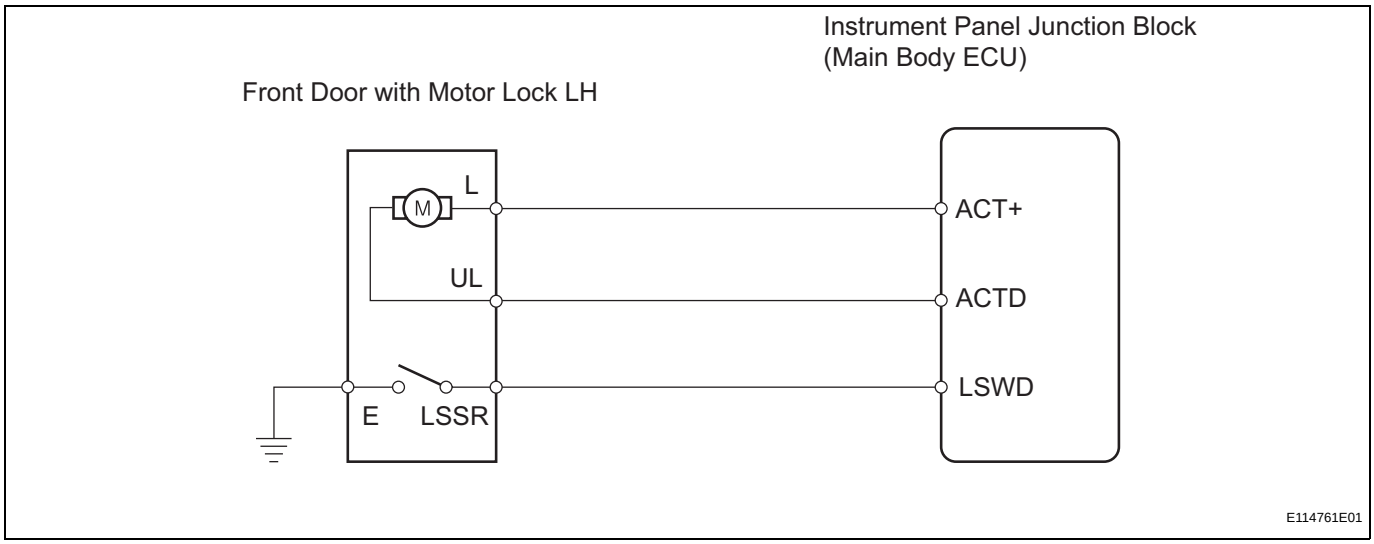
Only Driver Door LOCK / UNLOCK Functions do not Operate

DESCRIPTION

The main body ECU receives lock / unlock switch signals and activates the door lock motor accordingly.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	PERFORM ACTIVE TEST BY INTELLIGENT TESTER (DOOR LOCK)

(a) Select the ACTIVE TEST, use the intelligent tester to generate a control command, and then check that the doors lock / unlock.

Main body ECU

Item	Test Details	Diagnostic Note
D DOOR UNLOCK	Operate driver side door unlock ON / OFF	-

OK:

Doors can lock / unlock.

OK → **REPLACE INSTRUMENT PANEL JUNCTION BLOCK (MAIN BODY ECU)**

NG

2	READ VALUE OF INTELLIGENT TESTER (LOCK POSITION SWITCH)

(a) Use the DATA LIST to check if the door lock is functioning properly.

Main body ECU

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
D LOCK POS SW	Driver side door lock position switch signal ON / OFF	ON: Driver side door is unlocked OFF: Driver side door is locked	-

DL

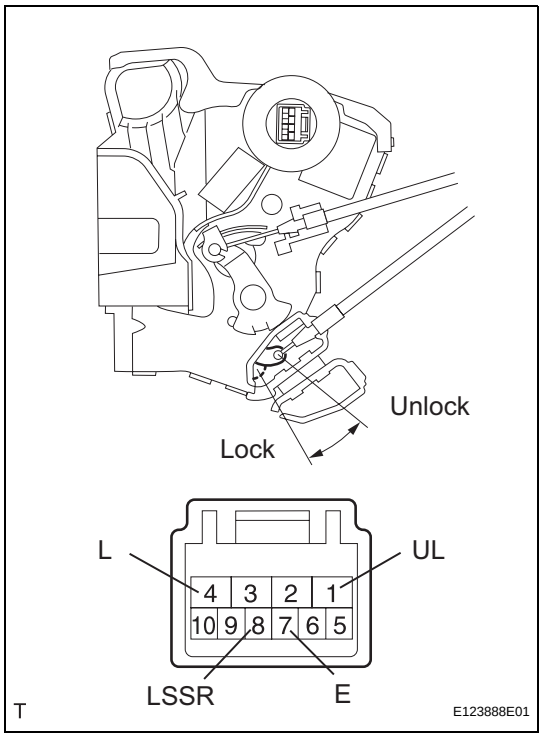
OK:

When the door lock is operating, the intelligent tester should display as shown in the table.

OK → **REPLACE INSTRUMENT PANEL JUNCTION BLOCK (MAIN BODY ECU)**

NG

3 INSPECT FRONT DOOR WITH MOTOR LOCK ASSEMBLY LH



(a) Apply the battery voltage to the motor terminals and check the operation of the door lock motor.

OK

Measurement Condition	Specified Condition
Battery positive (+) → 4 (L) Battery negative (-) → 1 (UL)	Lock
Battery positive (+) → 1 (UL) Battery negative (-) → 4 (L)	Unlock

(b) Measure the resistance of the door lock position switch.

Standard resistance

Tester Connection	Switch Condition	Specified Condition
8 (LSSR) - 7 (E)	Lock	10 kΩ or higher
8 (LSSR) - 7 (E)	Unlock	Below 1 Ω

NG → **REPLACE FRONT DOOR WITH MOTOR LOCK ASSEMBLY LH**

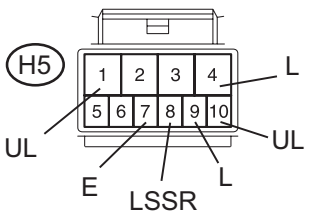
OK

4 CHECK WIRE HARNESS (DOOR LOCK - ECU)

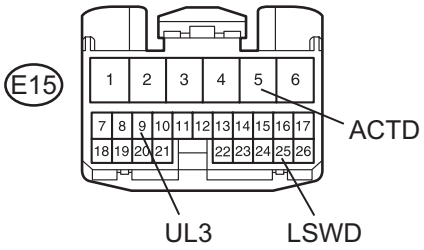
Wire Harness Side

DL

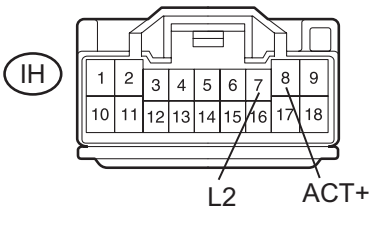
Front Door with Motor Lock LH



Main Body ECU



Instrument Panel Junction Block (Main Body ECU)



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(a) Disconnect the H5 door lock connector.
(b) Disconnect the E15 ECU connector.
(c) Disconnect the IH junction block connector.
(d) Measure the resistance of the wire harness side connectors.

Standard resistance

Tester Connection	Specified Condition
H5-1 (UL) - E15-5 (ACTD)	Below 1 Ω
H5-4 (L) - IH-8 (ACT+)	Below 1 Ω
H5-8 (LSSR) - E15-25 (LSWD)	Below 1 Ω
H5-9 (L) - IH-7 (L2)	Below 1 Ω
H5-10 (UL) - E15-9 (UL3)	Below 1 Ω
H5-7 (E) - Body ground	Below 1 Ω

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

OK

REPLACE INSTRUMENT PANEL JUNCTION BLOCK (MAIN BODY ECU)