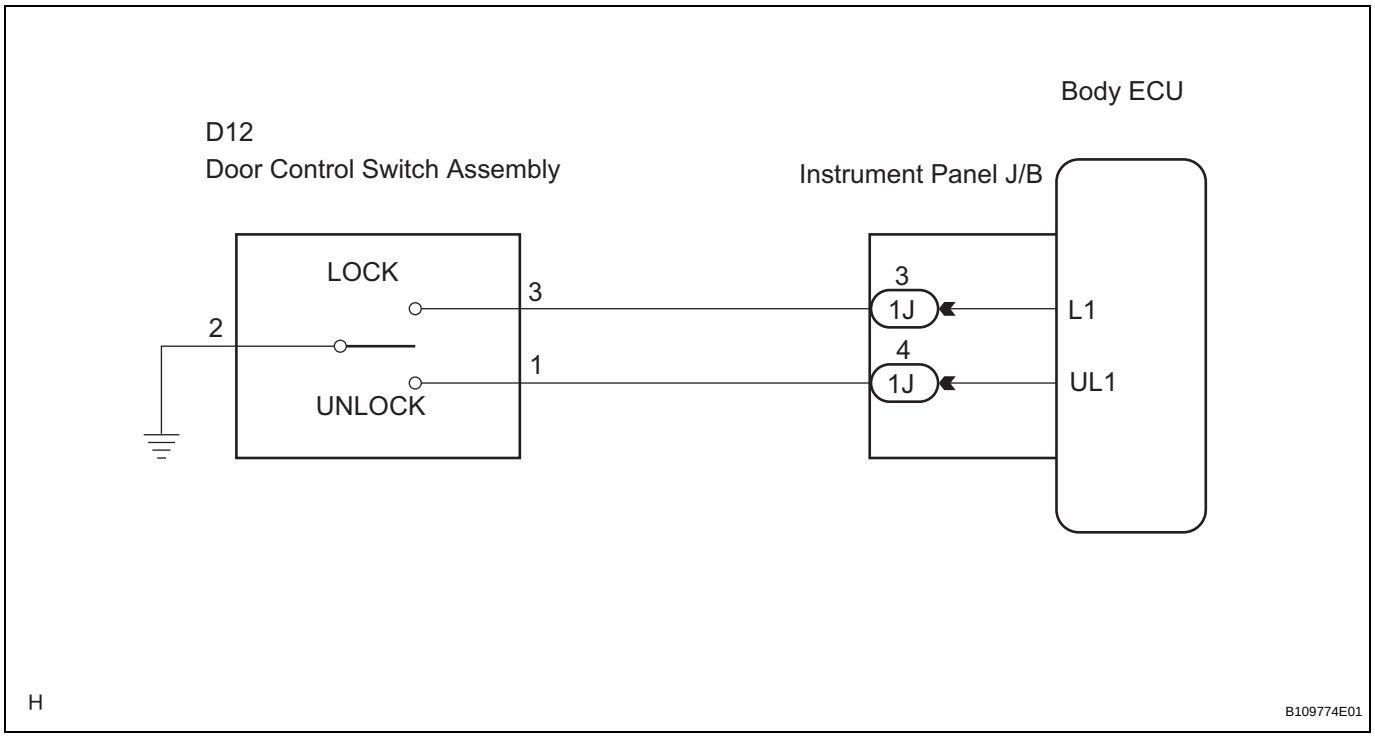
Door Control Switch Circuit

DESCRIPTION

When the lock side of the door control switch is pressed, continuity is established between terminals 3 and 2 of the switch. When the unlock side of the switch is pressed, continuity is established between terminals 1 and 2.
Terminals L1 and UL1 of the body ECU are connected to the door control switch and door lock/unlock request signals (by door control switch operation) are input to the ECU.
The body ECU constantly applies voltage to terminal 3 of the door control switch via terminal L1. When the door control switch is operated to lock all doors, current flows from terminal L1 to terminal 3. The body ECU determines that this is door lock request signal input.
The body ECU also applies constant voltage to terminal 1 of the door control switch via terminal UL1. When the door control switch is operated to unlock the doors, current flows from terminal UL1 to terminal 1. The body ECU determines that this is door unlock request signal input.

WIRING DIAGRAM



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1	READ VALUE OF DATA LIST (FRONT PASSENGER SIDE DOOR CONTROL SWITCH ASSEBLY)

(a) Check the DATA LIST to ensure proper function of the front passenger door lock switch.

BODY:

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
D/L SW-LOCK	Door lock switch signal /ON or OFF	ON: Door lock switch is pushed to LOCK position OFF: Door lock switch is not pushed to LOCK position	-

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
D/L SW-UNLOCK	Door unlock switch signal /ON or OFF	ON: Door lock switch is pushed to UNLOCK position OFF: Door lock switch is not pushed to UNLOCK position	-

OK:

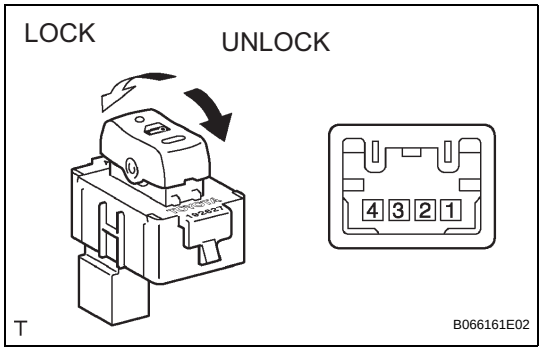
The display is as specified in the normal condition.

NG → **Go to step 2**

OK

OTHERS PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

2 INSPECT DOOR CONTROL SWITCH ASSEMBLY



(a) Remove the door control switch assembly.

(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
2 - 3	Lock	Below 1 Ω
2 - 3 1 - 2	OFF (Free)	10 kΩ or higher
1 - 2	Unlock	Below 1 Ω

NG → **REPLACE DOOR CONTROL SWITCH ASSEMBLY**

OK

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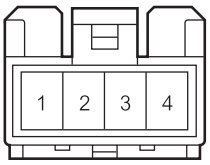
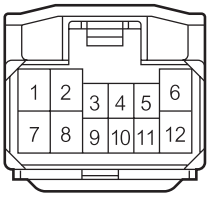
3	CHECK WIRE HARNESS (DOOR CONTROL SWITCH ASSEMBLY - INSTRUMENT PANEL J/B)

Wire Harness Side:

D12
Door Control Switch Assembly



1J
Instrument Panel J/B (Body ECU)



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(a) Disconnect the door control switch assembly connector.
(b) Disconnect the instrument panel J/B connector.
(c) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D12-3 - 1J-3	Always	Below 1 Ω
D12-1 - 1J-4	Always	Below 1 Ω
D12-2 - Body ground	Always	Below 1 Ω

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

OK

OTHERS PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

DL