

Front Passenger Side Door UNLOCK Detection Switch Circuit

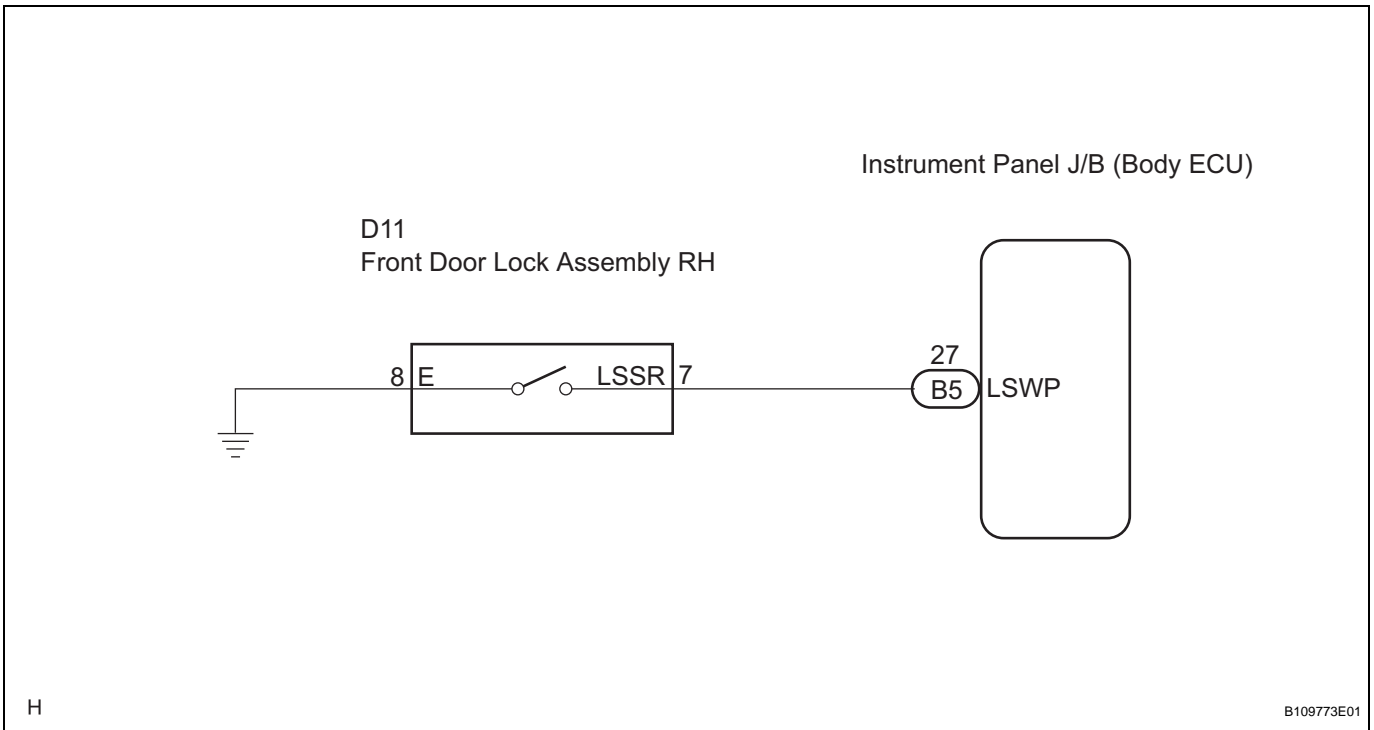
DESCRIPTION

The front passenger door unlock detection switch is built into the front passenger door lock assembly. The switch turns on when the front passenger door is locked and turns off when the door is unlocked.

The body ECU is connected to the front passenger door lock assembly via terminal LSWP and front passenger door lock/unlock state signals are input to the ECU.

The body ECU applies voltage to the door unlock detection switch via terminal LSWP. When the door unlock detection switch is on (there is continuity between the switch terminals), a lock state signal is input to the ECU. When the switch is off (there is no continuity between the switch terminals), an unlock state signal is input.

WIRING DIAGRAM



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B109773E01

1 READ VALUE OF DATA LIST (DOOR UNLOCK DETECTION SWITCH)

(a) Check the DATA LIST to ensure proper function of the door unlock detection switch.

BODY:

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
P LOCK POS SW	Passenger side door lock position switch signal /ON or OFF	ON: Passenger side door lock is in UNLOCK position OFF: Passenger side door lock is in LOCK position	-

OK:

The display is as specified in the normal condition.

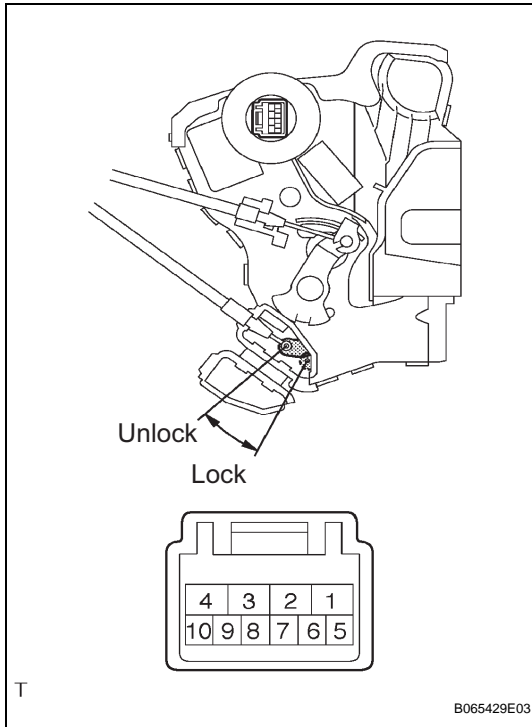
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Go to step 2

DL

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

2 INSPECT FRONT DOOR LOCK ASSEMBLY (DOOR UNLOCK DETECTION SWITCH)

- (a) Remove the front door lock assembly.
 (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Measurement Condition	Door Lock Condition	Specified Condition
Battery positive (+) → Terminal 4 Battery negative (-) → Terminal 1	LOCK	7 - 8 (10 k Ω or higher)
Battery positive (+) → Terminal 1 Battery negative (-) → Terminal 4	UNLOCK	7 - 8 (Below 1 Ω)

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REPLACE FRONT DOOR LOCK ASSEMBLY

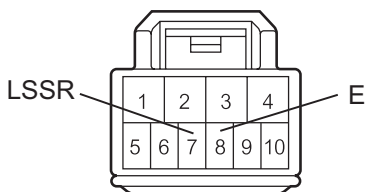
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OK

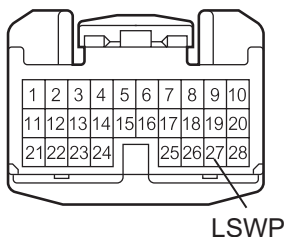
3 CHECK WIRE HARNESS (FRONT DOOR LOCK ASSEMBLY - INSTRUMENT PANEL J/B)

Wire Harness Side:

D11
Front Door Lock Assembly RH



B5
Instrument Panel J/B (Body ECU)



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B111708E01

- (a) Disconnect the front door lock 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
D11-7 (LSSR) - B5-27 (LSWP)	Always	Below 1 Ω
D11-8 (E) - Body ground	Always	Below 1 Ω

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE