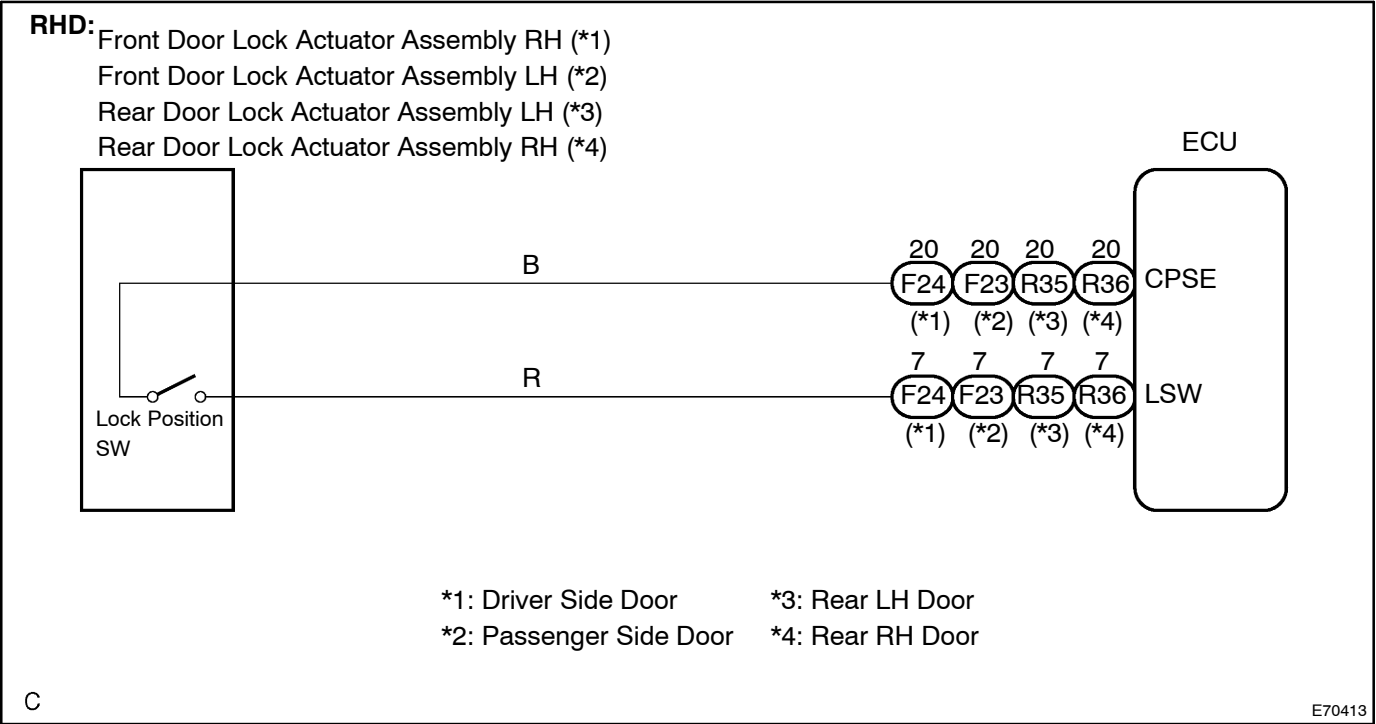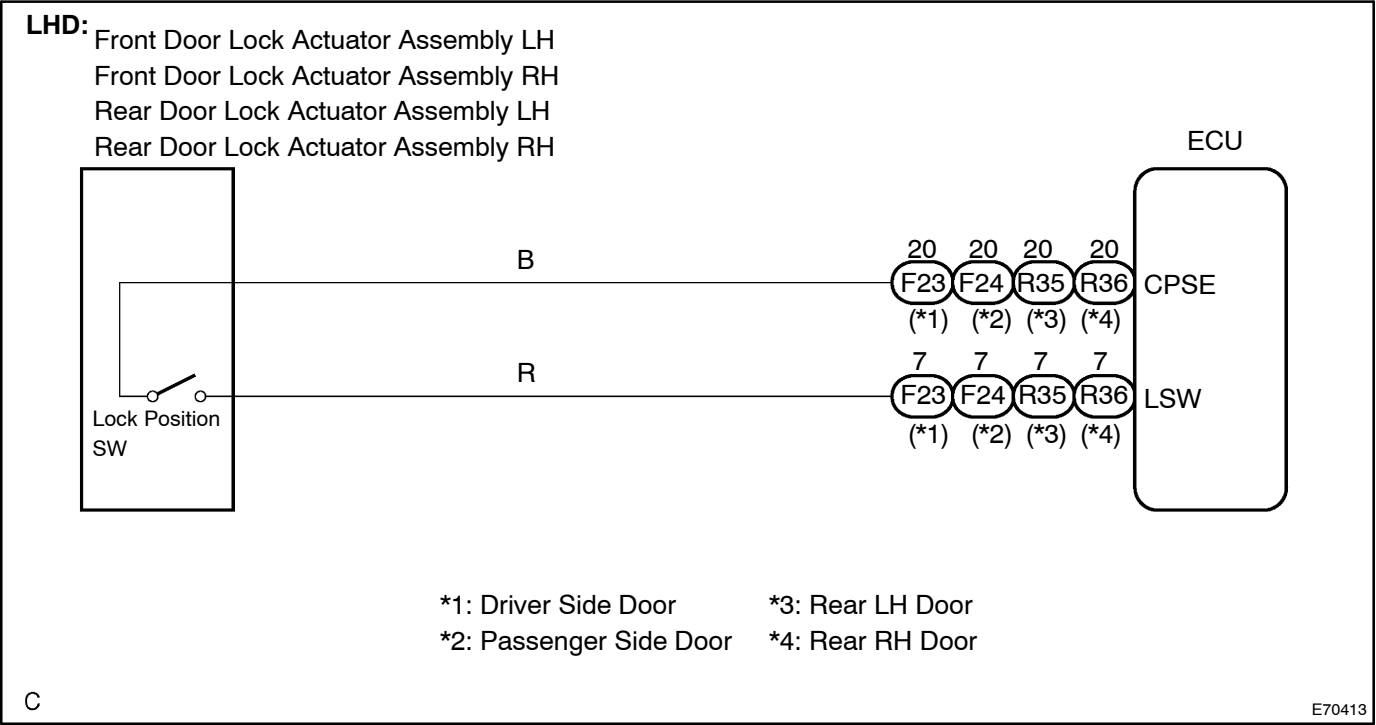# DOOR LOCK POSITION CIRCUIT

CIRCUIT DESCRIPTION

The door ECU receives door lock information from each detection switch and sends it to each of the ECU.

WIRING DIAGRAM

LHD:
Front Door Lock Actuator Assembly LH
Front Door Lock Actuator Assembly RH
Rear Door Lock Actuator Assembly LH
Rear Door Lock Actuator Assembly RH

ECU

Lock Position SW

20	20	20	20
F23	F24	R35	R36
(*1)	(*2)	(*3)	(*4)

B → CPSE

7	7	7	7
F23	F24	R35	R36
(*1)	(*2)	(*3)	(*4)

R → LSW

*1: Driver Side Door   *3: Rear LH Door
*2: Passenger Side Door   *4: Rear RH Door

C   E70413

RHD:
Front Door Lock Actuator Assembly RH (*1)
Front Door Lock Actuator Assembly LH (*2)
Rear Door Lock Actuator Assembly LH (*3)
Rear Door Lock Actuator Assembly RH (*4)

ECU

Lock Position SW

20	20	20	20
F24	F23	R35	R36
(*1)	(*2)	(*3)	(*4)

B → CPSE

7	7	7	7
F24	F23	R35	R36
(*1)	(*2)	(*3)	(*4)

R → LSW

*1: Driver Side Door   *3: Rear LH Door
*2: Passenger Side Door   *4: Rear RH Door

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INSPECTION PROCEDURE

HINT:
- Before this procedure, check if the wireless door lock system operation is normal.
- The procedure is the same for all door lock positions. Inspect the suspected door lock position first.

1	READ VALUE OF INTELLIGENT TESTER II

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the ignition switch to the ON position and turn the intelligent tester II main switch on.
(c) Select the item below in the DATA LIST, and read the display on the intelligent tester II.

DOOR:

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
Door Unlock Detection SW	Door unlock detection switch/ON or OFF	ON: Door is unlock OFF: Door is lock	–

OK: Condition sign can be displayed.

HINT:
All door ECUs send the same message to the intelligent tester II.

NG >	Go to step 2

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–1369)

2	INSPECT MPX DOOR ECU

(a) Measure the voltage according to the value(s) in the table below.
   Standard:

Driver Side Door:

LHD:

Tester Connection	Condition	Specified Condition
F23–7 – F23–20	Driver's door is locked	10 to 14 V
F23–7 – F23–20	Driver's door is unlocked	Below 1 V

RHD:

Tester Connection	Condition	Specified Condition
F24–7 – F24–20	Driver's door is locked	10 to 14 V
F24–7 – F24–20	Driver's door is unlocked	Below 1 V

Passenger Side Door:

LHD:

Tester Connection	Condition	Specified Condition
F24–7 – F24–20	Passenger's door is locked	10 to 14 V
F24–7 – F24–20	Passenger's door is unlocked	Below 1 V

RHD:

Tester Connection	Condition	Specified Condition
F23–7 – F23–20	Passenger's door is locked	10 to 14 V
F23–7 – F23–20	Passenger's door is unlocked	Below 1 V

Rear LH Door:

Tester Connection	Condition	Specified Condition
R35−7 – R35−20	Rear LH door is locked	10 to 14 V
R35−7 – R35−20	Rear LH door is unlocked	Below 1 V

Rear RH Door:

Tester Connection	Condition	Specified Condition
R36−7 – R36−20	Rear RH door is locked	10 to 14 V
R36−7 – R36−20	Rear RH door is unlocked	Below 1 V

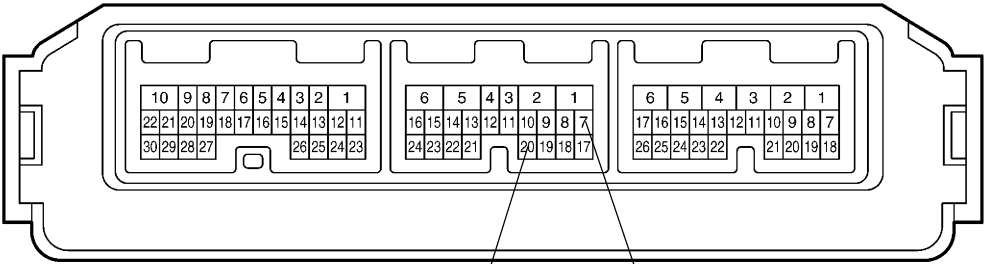**Connector Front View:**

F23 (*1) F24 (*2) Driver Door ECU

F24 (*1) F23 (*2) Passenger Door ECU
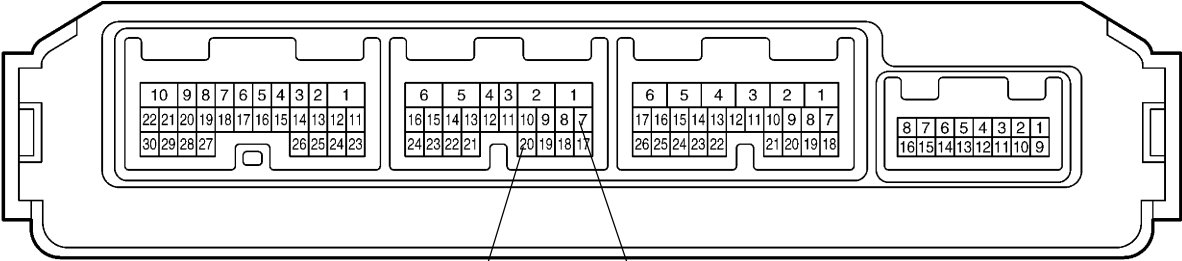
CPSE   LSW

R35 Rear LH Door

R36 Rear LH Door

CPSE   LSW

*1: LHD
*2: RHD

E70401
E70402

I37556

NG ⟩ GO TO POWER DOOR LOCK CONTROL SYSTEM (SEE PAGE 05−2529)

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05−1369)