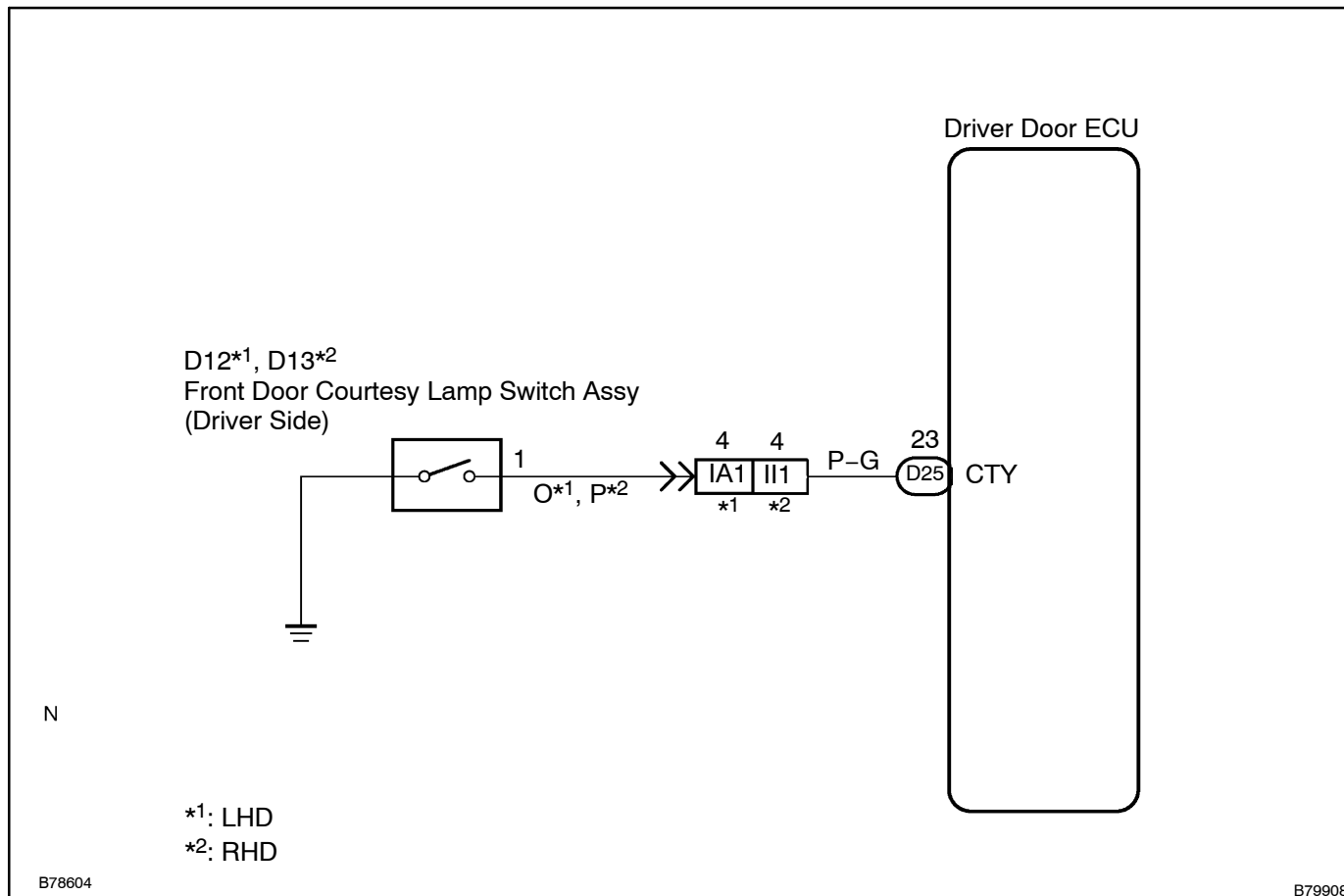# DOOR COURTESY SWITCH CIRCUIT

CIRCUIT DESCRIPTION

The driver door ECU detects the condition of the front door courtesy lamp switch and sends a switch signal to the related ECUs via the multiplex communication circuit.

WIRING DIAGRAM

Driver Door ECU

D12*1, D13*2
Front Door Courtesy Lamp Switch Assy
(Driver Side)

1

O*1, P*2

4   4
IA1   II1
*1   *2

P–G

23
D25   CTY

N

*1: LHD
*2: RHD

B78604

B79908

INSPECTION PROCEDURE

1	READ VALUE OF INTELLIGENT TESTER II (FRONT DOOR COURTESY LAMP SWITCH)

(a) Check the DATA LIST for proper functioning of the door courtesy switch.

Multiplex network body ECU (Driver door ECU):

| Item	Measurement Item/Display (Range)	Normal Condition	Diagnostic Note
Courtesy Switch	Door courtesy switch signal /ON or OFF	ON: Door is open OFF: Door is closed	–

OK: "ON" (Door is open) appears on the screen.

NG	Go to step 2

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05−2979)

2	INSPECT FRONT DOOR COURTESY LAMP SWITCH ASSY (DRIVER SIDE)

Not Pushed (ON)
Pushed (OFF)
Body Ground
B58556
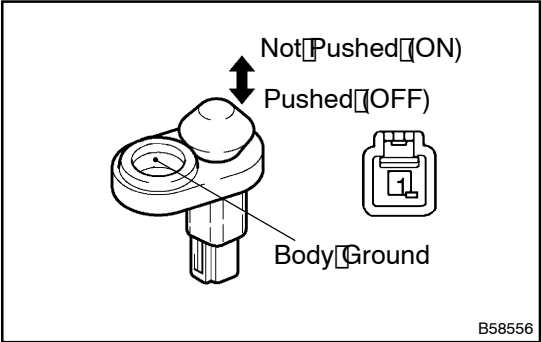
(a) Remove the courtesy lamp switch.

(b) Measure the resistance of the switch.

Standard:

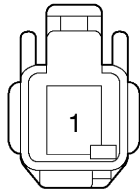| Tester Connection	Switch Position	Specified Condition
1 – Body ground	Not pushed (ON)	Below 1 Ω
1 – Body ground	Pushed (OFF)	10 kΩ or higher

NG	REPLACE FRONT DOOR COURTESY LAMP SWITCH ASSY LH

OK

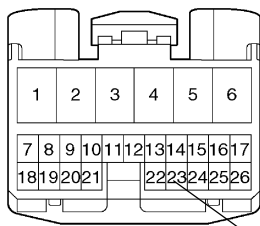| 3 | CHECK WIRE HARNESS (FRONT DOOR COURTESY LAMP SWITCH ASSY (DRIVER SIDE) – MULTIPLEX NETWORK BODY ECU (DRIVER DOOR ECU)) |

Wire Harness Side

D12*[1], 13*[2]

Front Door Courtesy Lamp Switch Assy

B65420

1

*[1]: LHD
*[2]: RHD

D25
Multiplex Network Body ECU

| 1 | 2 | 3 | 4 | 5 | 6 |

| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | | 22 | 23 | 24 | 25 | 26 |

CTY

T   B79703

(a)   Disconnect the D12 or D13 switch and D25 ECU connectors.

(b)   Measure the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
D12/13–1 – D25–23 (CTY)	Below 1 Ω

NG > REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE