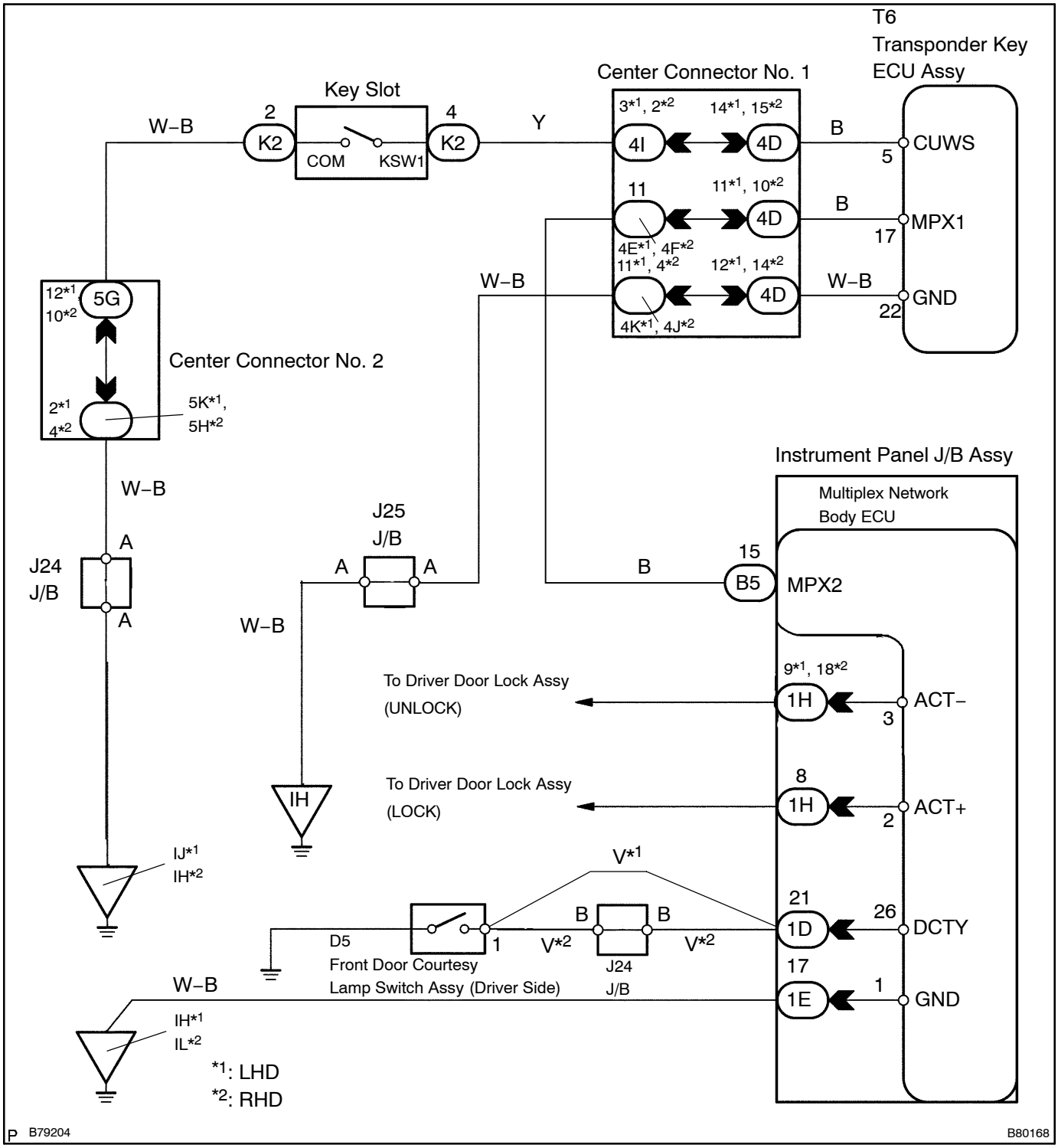
KEY LOCK–IN PREVENTION FUNCTION DOES NOT WORK PROPERLY (MANUAL OPERATION AND KEY–LINKED LOCK ARE ACTIVATED)

CIRCUIT DESCRIPTION

To prevent the key from being locked in the vehicle, the door control relay assembly prevents doors from being locked by monitoring two switches: 1) the unlock warning switch, which turns ON when the key is inserted into ignition key cylinder; and 2) the driver side courtesy lamp switch, which turns ON when thee driver side door is opened.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	INSPECT COMMUNICATION FUNCTION OF LARGE–SCALE MULTIPLEX COMMUNICATION SYSTEM (BEAN)

(a) Use the hand–held tester to check for normal function of the multiplex communication system.
(1) (ECU unconnected, communication line malfunctioning) Without DTC B1200, B1214, B1215 or B1294 outputs, proceed to A.
(2) (ECU unconnected, communication line malfunctioning) With DTC B1200, B1214, B1215 or B1294 outputs, proceed to B.

B → **Go to MULTIPLEX COMMUNICATION SYSTEM (See page 05–2261)**

A

2	READ VALUE OF INTELLIGENT TESTER II (DOOR COURTESY SWITCH)

(a) Check the DATA LIST for proper function of the driver side door courtesy switch.
Multiplex network body ECU:

Item	Measurement Item/Display (Range)	Normal Condition	Diagnostic Note
D Dor Cty SW	Driver side door courtesy switch signal /ON or OFF	ON: Driver side door is open OFF: Driver side door is closed	–

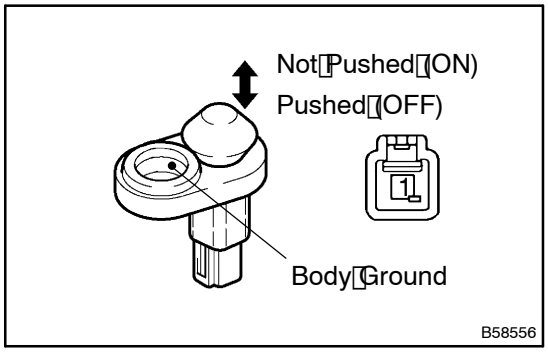
OK: ”ON”(driver side door is open) appears on the screen.

NG → **Go to step 3**

OK

Go to step 5

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



(a) Remove the switch.
(b) Measure the switch resistance.
Standard:

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

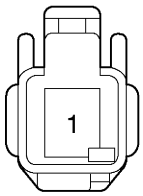
NG → **REPLACE FRONT DOOR COURTESY LAMP SWITCH ASSY**

OK

4	CHECK WIRE HARNESS (FRONT DOOR COURTESY LAMP SWITCH ASSY (DRIVER SIDE) – INSTRUMENT PANEL J/B ASSY)

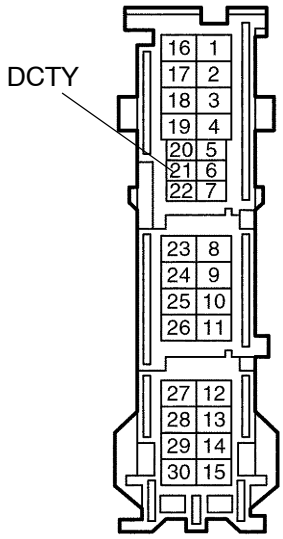
Wire Harness Side

D5
Front Door Courtesy Lamp Switch Assy



B65420

1D
Instrument Panel J/B Assy



B79240

B79560

(a) Disconnect the D5 switch and 1D J/B connectors.
(b) Measure the resistance of the wire harness side connectors.

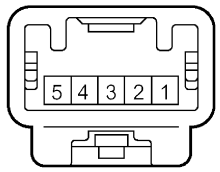
Standard:

Tester Connection	Specified Condition
D5–1 – 1D–21 (DCTY)	Below 1 Ω

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

OK

5	INSPECT KEY SLOT



B79242

(a) Remove the switch.
(b) Measure the switch resistance.

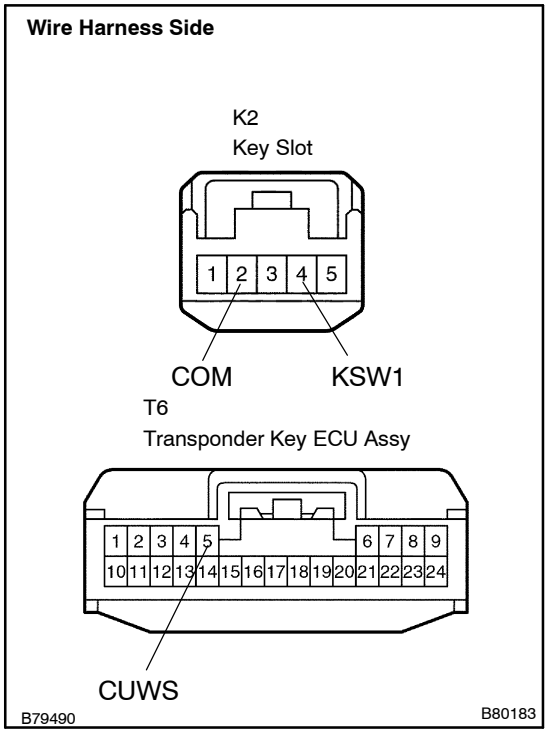
Standard:

Tester Connection	Switch Condition	Specified Condition
2 – 4	Key in key slot	Below 1 Ω
2 – 4	No key in key slot	10 kΩ or higher

NG → **REPLACE KEY SLOT**

OK

6	CHECK WIRE HARNESS (KEY SLOT – TRANSPONDER KEY ECU AND BODY GROUND)



(a) Disconnect the K2 key slot and T6 ECU connectors.
(b) Measure the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
K2–4 (KSW1) – T6–5 (CUWS)	Below 1 Ω
K2–2 (COM) – Body ground	10 kΩ or higher

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

OK

REPLACE TRANSPONDER KEY ECU ASSY