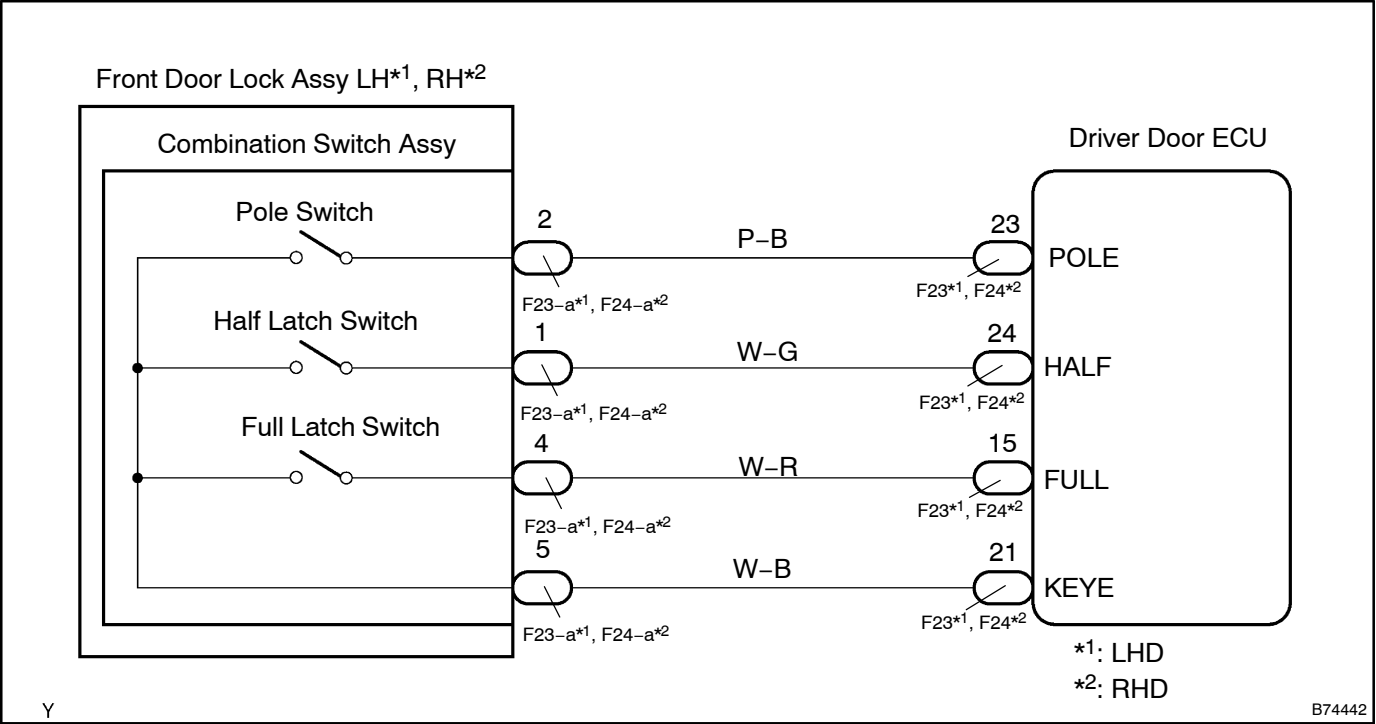# DOOR CLOSER POSITION SWITCH CIRCUIT ON DRIVER SIDE DOOR

CIRCUIT DESCRIPTION

The door lock assembly has a built–in closer position switch, which detects the position of the closer.

WIRING DIAGRAM

Front Door Lock Assy LH*1, RH*2

Combination Switch Assy

Pole Switch

2   P–B   23   POLE

F23–a*1, F24–a*2   F23*1, F24*2

Half Latch Switch

1   W–G   24   HALF

F23–a*1, F24–a*2   F23*1, F24*2

Full Latch Switch

4   W–R   15   FULL

F23–a*1, F24–a*2   F23*1, F24*2

5   W–B   21   KEYE

F23–a*1, F24–a*2   F23*1, F24*2

Driver Door ECU

*1: LHD
*2: RHD

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INSPECTION PROCEDURE

1	READ VALUE OF INTELLIGENT TESTER II (DOOR CLOSER POSITION SWITCH (POLE/HALF/FULL))

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

Driver Door ECU:

Item	Measurement item / Display (Range)	Normal Condition	Position
Pole SW	POLE Switch (OFF/ON)	Refer to system description of door ECU (see page 05–2695)	–
Half SW	HALF Switch (OFF/ON)	Refer to system description of door ECU (see page 05–2695)	–
Full SW	FULL Switch (OFF/ON)	Refer to system description of door ECU (see page 05–2695)	–

OK: "ON" (door closer position switch (POLE/HALF/FULL) is ON) appears on the screen.
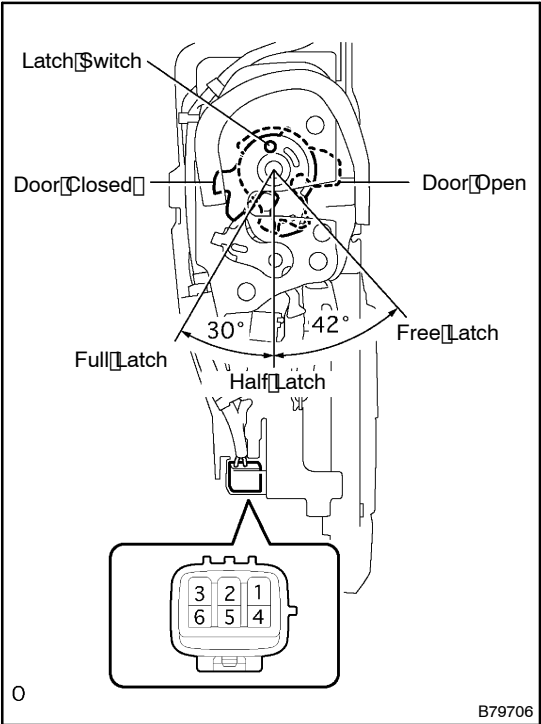
NG >	Go to step 2

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05–2703)

2	INSPECT COMBINATION SWITCH ASSY (HALF LATCH AND FULL LATCH SWITCH)

Latch Switch

Door Closed

Door Open

30° 42°

Full Latch

Half Latch

Free Latch

3 2 1
6 5 4

O

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(a) Disconnect the F23–a*1/F24–a*2 lock connector.
(b) Measure the resistance.

Standard:

Tester	Condition	Specified Condition
1 – 5	Door open	Below 1 Ω
1 – 5	Half latch	10 kΩ or higher
1 – 5	Door close	10 kΩ or higher
4 – 5	Door open	Below 1 Ω
4 – 5	Half latch	Below 1 Ω
4 – 5	Door closed	10 kΩ or higher

*1: LHD

*2: RHD

NG >	REPLACE COMBINATION SWITCH ASSY

OK

3 | INSPECT COMBINATION SWITCH ASSY (POLE SWITCH)
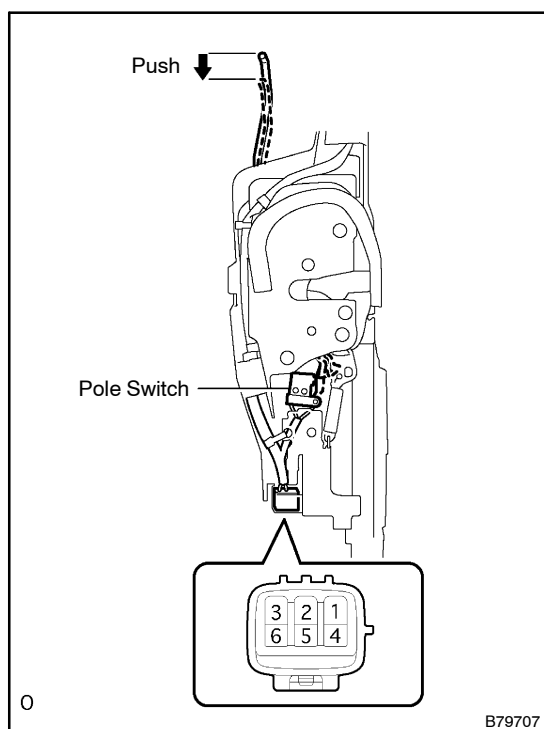
(a) Disconnect the F23−a*1/F24−a*2 lock connector.
(b) Measure the resistance.
Standard:

Tester Connection	Condition	Specified Condition
2 − 5	Link not pushed	10 kΩ or higher
2 − 5	Link pushed	Below 1 Ω

*1: LHD
*2: RHD

NG ▷ **REPLACE COMBINATION SWITCH ASSY**

OK

4 | CHECK WIRE HARNESS (DRIVER DOOR ECU − DRIVER DOOR LOCK ASSY)
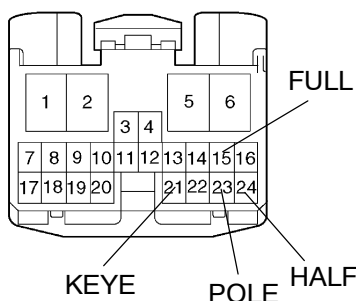
Wire Harness Side

F23−a*1, F24−a*2
Front Door Lock Assy LH

*1: LHD
*2: RHD

F23*1, F24*2
Driver Door ECU

(a) Disconnect the F23−a*1/F24−a*2 lock connector.
(b) Disconnect the F23*1/F24*2 ECU connector.
(c) Measure the resistance.
Standard:

Tester Connection	Specified Condition
F23*1/F24*2−a−2 − F23*1/F24*2−23 (POLE)	Below 1 Ω
F23*1/F24*2−a−1 − F23*1/F24*2−24 (HALF)	Below 1 Ω
F23*1/F24*2−a−4 − F23*1/F24*2−15 (FULL)	Below 1 Ω
F23*1/F24*2−a−5 − F23*1/F24*2−21 (KEYE)	Below 1 Ω
F23*1/F24*2−a−2 − Body ground	10 kΩ or higher
F23*1/F24*2−a−1 − Body ground	10 kΩ or higher
F23*1/F24*2−a−4 − Body ground	10 kΩ or higher
F23*1/F24*2−a−5 − Body ground	10 kΩ or higher

NG ▷ **REPLACE COMBINATION SWITCH ASSY**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05−2703)