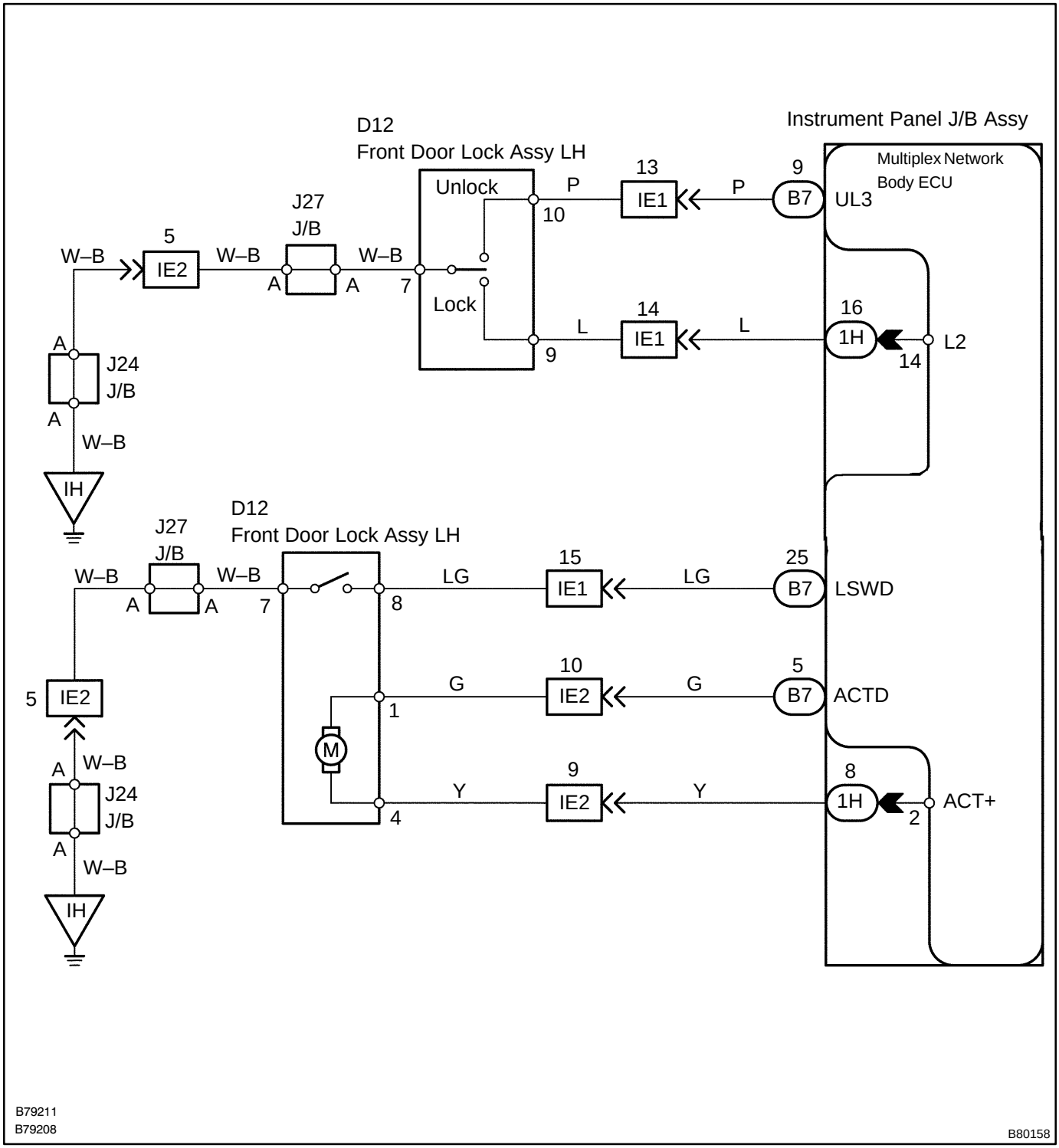
ONLY DRIVER DOOR LOCK/UNLOCK FUNCTIONS DO NOT OPERATE

CIRCUIT DESCRIPTION

The instrument panel J/B assy (multiplex network body ECU) receives lock/unlock switch signals and activates the door lock motor according to the signals.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	PERFORM ACTIVE TEST USING HAND–HELD TESTER

(a) Select the ACTIVE TEST, use the hand–held tester to generate a control command, and then check that the power door lock operates.
Multiplex network body ECU:

Item	Test Details	Diagnostic Note
DOOR LOCK	Operate door lock motor for all doors LOCK/UNLOCK	All doors are closed

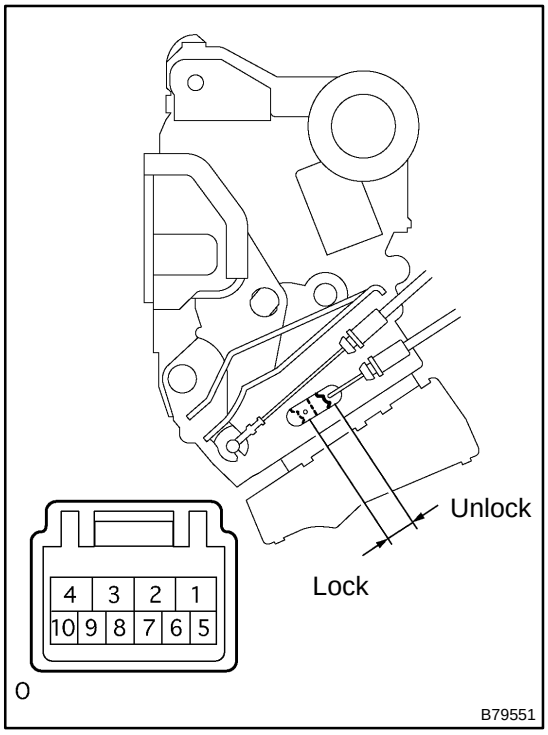
OK: Door can lock/unlock.

NG → **Go to step 2**

OK

REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY (MULTIPLEX NETWORK BODY ECU)

2	INSPECT FRONT DOOR LOCK ASSY LH (DOOR LOCK AND UNLOCK SWITCH AND POSITION SWITCH)



(a) Measure the resistance of the door lock and unlock switch and position switch.
Standard:
Door lock and unlock switch

Tester Connection	Switch Condition	Specified Condition
7 – 9	Lock	Below 1 Ω
7 – 9 7 – 10	OFF	10 kΩ or higher
7 – 10	Unlock	Below 1 Ω

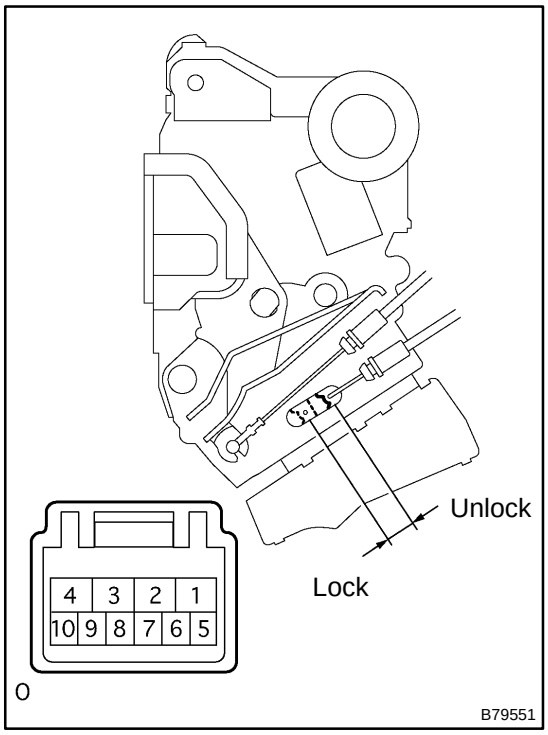
Standard:
Position switch

Tester Connection	Switch Condition	Specified Condition
7 – 8	Lock	10 κΩ or higher
7 – 8	Unlock	Below 1 Ω

NG → **REPLACE FRONT DOOR LOCK ASSY LH**

OK

3 INSPECT FRONT DOOR LOCK ASSY LH (DOOR LOCK MOTOR)



(a) Apply battery voltage to the door lock and check operation of the door lock motor.

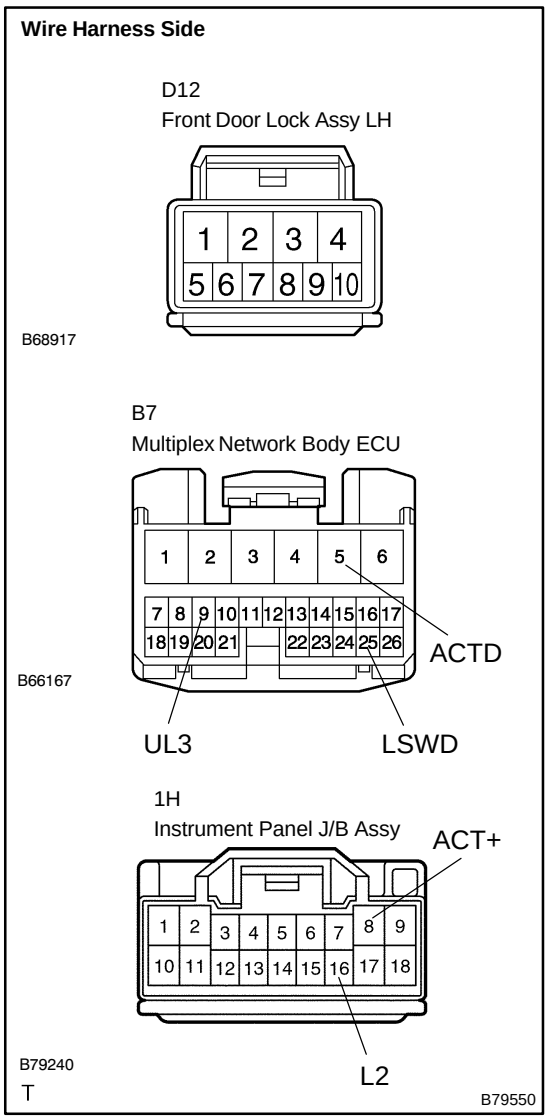
OK:

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 4 Battery negative (–) → Terminal 1	Lock
Battery positive (+) → Terminal 1 Battery negative (–) → Terminal 4	Unlock

NG → **REPLACE FRONT DOOR LOCK ASSY LH**

OK

4	CHECK WIRE HARNESS (FRONT DOOR LOCK ASSY LH – MULTIPLEX NETWORK BODY ECU, INSTRUMENT PANEL J/B ASSY AND BODY GROUND)



(a) Disconnect the D12 lock connector.
(b) Disconnect the B7 ECU connector.
(c) Disconnect the 1H J/B connector.
(d) Measure the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
D12–4 – 1H–8 (ACT+)	Below 1 Ω
D12–1 – B7–5 (ACTD)	Below 1 Ω
D12–8 – B7–25 (LSWD)	Below 1 Ω
D12–9 – 1H–16 (L2)	Below 1 Ω
D12–10 – B7–9 (UL3)	Below 1 Ω
D12–7 – Body ground	Below 1 Ω

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

OK

REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY (MULTIPLEX NETWORK BODY ECU)