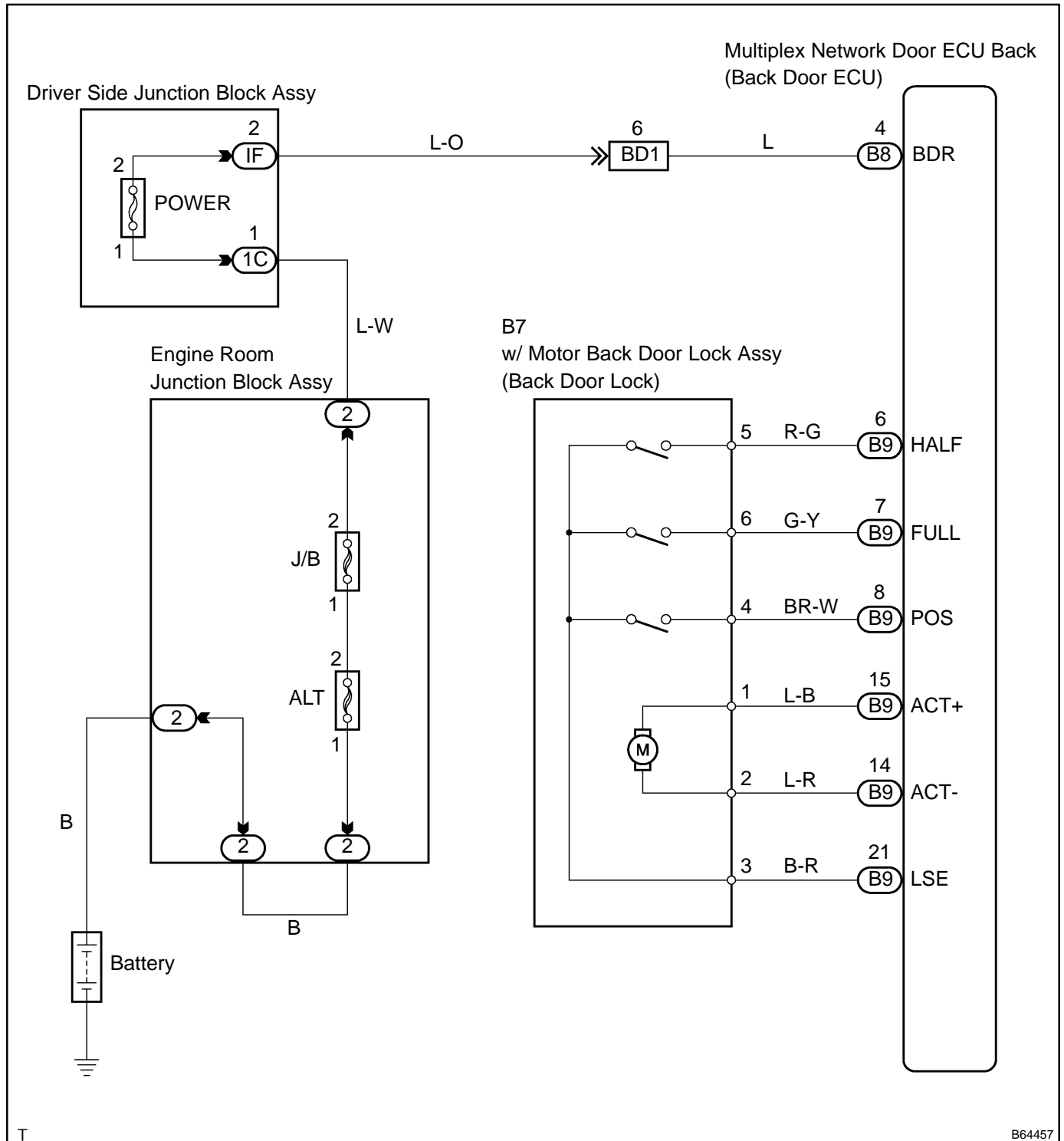059XV-01

BACK DOOR CLOSER DOES NOT OPERATE

CIRCUIT DESCRIPTION

The back door ECU controls the back door closer. In response to the signals output from the switches in the back door lock, the back door closer drives the closer motor.

WIRING DIAGRAM

T   B64457

INSPECTION PROCEDURE

1	INSPECT BACK DOOR LOCK

(a) Check that the back door fully closes (fully locked) when the door is closed by hand.

NG > **IMPROPER FIT OF BACK DOOR, OR A FOREIGN OBJECT IS STUCK IN BACK DOOR**
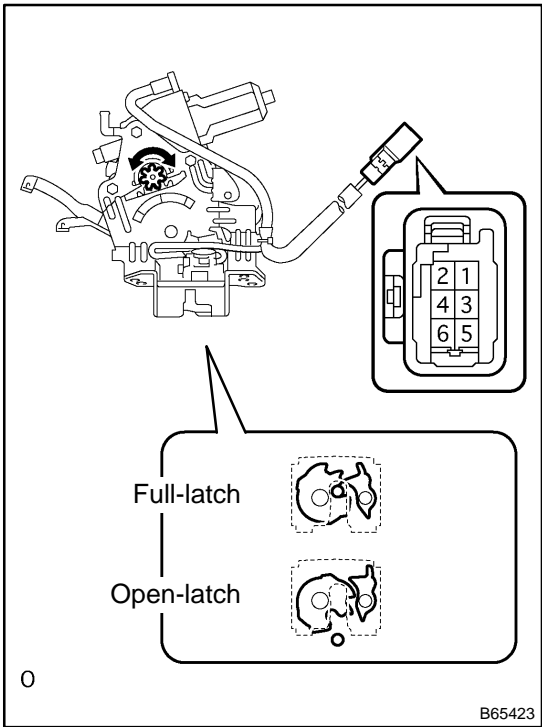
OK

2	POWER SOURCE RESET

(a) Disconnect the POWER DOOR 30A fuse and reconnect it. 10 seconds later, check that the back door closer is operational.

OK > **NORMAL**

NG

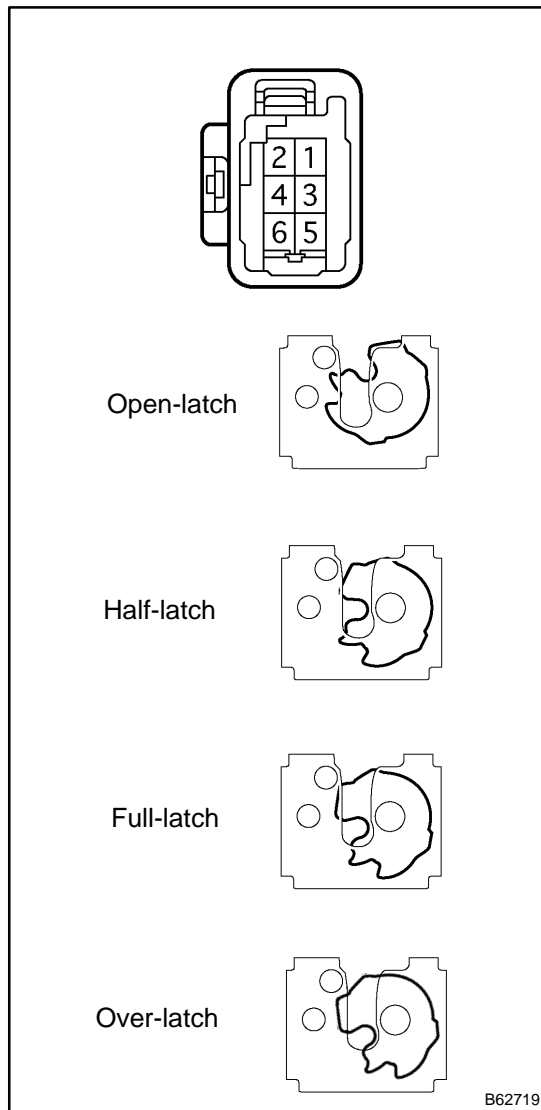| 3	INSPECT W/MOTOR BACK DOOR LOCK ASSY

Full-latch

Open-latch

O

B65423

(a) Check operation of the door lock.
   (1) Using a screwdriver, push the latch in order to put the back door lock in the locked condition (full-latch position).
   (2) Connect the positive (+) lead to terminal 1 and the negative (-) lead to terminal 2. Then, check operation of the latch.
   Standard: The latch turns to the open-latch position
   (3) Inspect motor operation when battery voltage is applied to the terminals.
   Standard:

Measurement Condition	Specified Condition
Battery positive (+) ⇔ Terminal 2 Battery negative (-) ⇔ Terminal 1	Clockwise（Motor in normal rotation）
Battery positive (+) ⇔ Terminal 1 Battery negative (-) ⇔ Terminal 2	Counterclockwise (Motor in reverse rotation)

Open-latch

Half-latch

Full-latch

Over-latch

B62719

(b) Check the back door courtesy switch continuity.
  (1) Check the continuity between the terminals of the courtesy switch.
      Standard:

Door Lock Latch Position	Terminal No.	Specified Condition
Open-latch position, Half-latch position	4 ⇔ 5	Continuity
Full-latch position, Over-latch position	4 ⇔ 5	No continuity

(c) Check the back door latch switch continuity.
  (1) Check the continuity between the terminals of the latch switch.
      Standard:

Door Lock Latch Position	Terminal No.	Specified Condition
Open-latch position, Over-latch position	4 ⇔ 6	Continuity
Half-latch position, Full-latch position	4 ⇔ 6	No continuity

(d) Check the position switch continuity.
  (1) Connect the battery positive (+) lead to connector terminal 1 and the negative (-) lead to connector terminal 2.
      Standard:

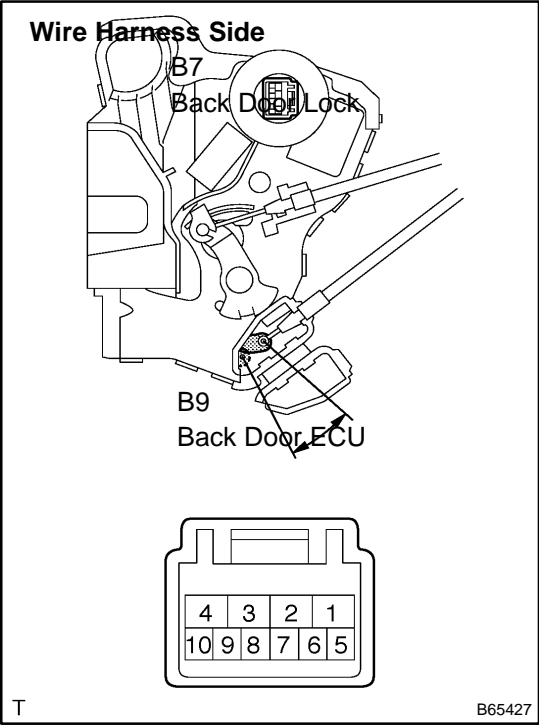| Door Lock Latch Position	Terminal No.	Specified Condition
Any position other than motor stop position (Motor in operation)	3 ⇔ 4	Continuity
Motor stop position (Gear in original position	3 ⇔ 4	No continuity

OK ▷ | **REPLACE W/MOTOR BACK DOOR LOCK ASSY**

NG

4	CHECK WIRE HARNESS (W/MOTOR BACK DOOR LOCK ASSY (BACK DOOR LOCK) ⇔ MULTIPLEX NETWORK DOOR ECU BACK (BACK BODY ECU))

Wire Harness Side

B7
Back Door Lock

B9
Back Door ECU

4	3	2	1
10	9	8	7	6	5

T   B65427

(a) Disconnect the B7 back door lock and B9 back door ECU connectors.

(b) Check the continuity between the terminals of the back door lock (B7) and back door ECU (B9) connectors.
Standard (Check for open) :

Symbols (Terminal No.)	Specified Condition
- (B7-5) ⇔ HALF (B9-6)	
- (B7-6) ⇔ FULL (B9-7)	
- (B7-4) ⇔ POS (B9-8)	Continuity
- (B7-1) ⇔ ACT+ (B9-15)	
- (B7-2) ⇔ ACT- (B9-14)	
- (B7-3) ⇔ LSE (B9-21)	

OK ⟩ **REPLACE MULTIPLEX NETWORK DOOR ECU BACK**

NG ▽

REPAIR OR REPLACE HARNESS AND CONNECTOR