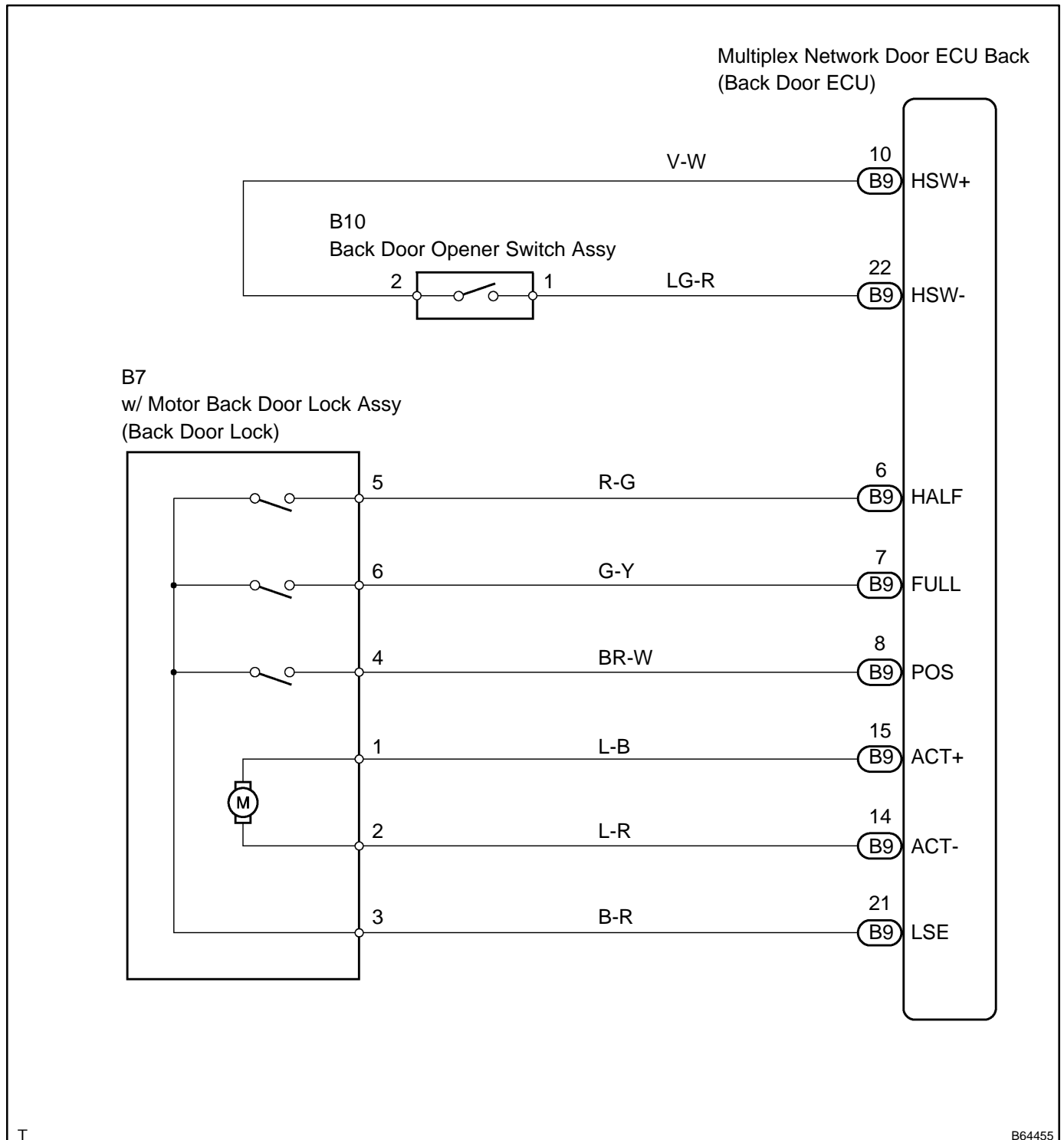# ONLY BACK DOOR CAN NOT BE OPENED (UNLOCKED)

CIRCUIT DESCRIPTION

The signal for manual unlocking operation on driver side door and the signal for unlocking operation interlocked with the driver side door lock key cylinder are sent to the back door ECU from the body ECU using the MPX line. Also, the signal of the back door opener switch is directly sent to the back door ECU. In response to these signals, the back door ECU controls the back door lock.

WIRING DIAGRAM

T   B64455

INSPECTION PROCEDURE

1	READ VALUE OF HAND-HELD TESTER

(a) Check the data list of back door opener switch.
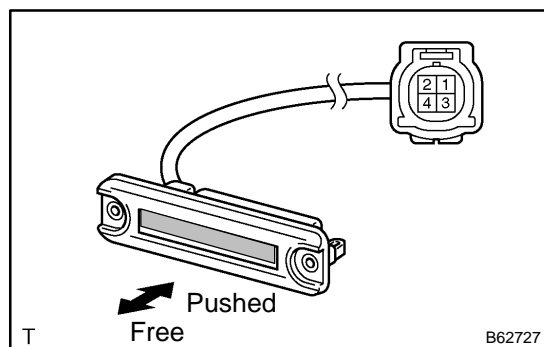
Standard (Back door ECU):

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
DOOR HANDLE SW	Back door opener SW signal/ON or OFF	ON: Back door opener is pushed OFF: Back door opener is not pushed	-

OK	Go to step 4

NG

2	INSPECT BACK DOOR OPENER SWITCH ASSY

Pushed
Free
T   B62727

(a) Remove the back door opener switch.

(b) Inspect the back door opener switch continuity.

Standard:

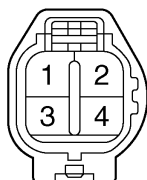| Terminal No.	Condition	Specified Condition
1 ⇔ 2	Free	No continuity
	Pushed	Continuity

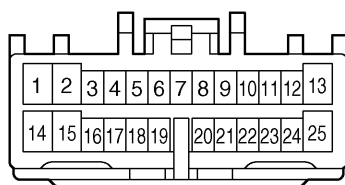| NG	REPLACE BACK DOOR OPENER SWITCH ASSY

OK

| 3 | CHECK WIRE HARNESS (BACK DOOR OPENER SWITCH ASSY ⇔ MULTIPLEX NET-WORK DOOR ECU BACK (BACK BODY ECU)) |

Wire Harness Side

B10
Back Door Opener Switch

B9
Back Door ECU

B65426

(a) Disconnect the B10 back door opener switch and B9 back door ECU connectors.

(b) Check the continuity between the terminals of the back door opener switch (B10) and back door ECU (B9) connectors.

Standard (Check for open) :

Symbols (Terminal No.)	Specified Condition
- (B10-1) ⇔ HSW- (B9-22)	Continuity
- (B10-2) ⇔ HSW+ (B9-10)	Continuity

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

OK

| 4 | PERFORM ACTIVE TEST BY HAND-HELD TESTER |

(a) Select the active test, and then check that the power door lock operates.

HINT:

During the active test, the hand-held tester sends signal to the body ECU to drive the all power door lock motor. If the all power door lock operates, the power door lock motor itself and the wire harness between the power door lock motor and body ECU is considered normal.
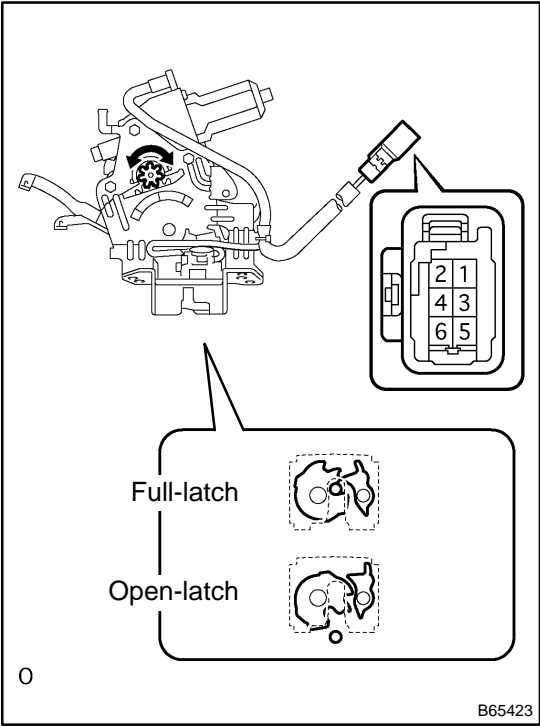
Standard (Body ECU):

Item	Test Details	Diagnostic Note
DOOR LOCK	Drive the door lock motor at all doors LOCK/OFF	-
DOOR LOCK	Drive the door lock motor at all doors UNLOCK/OFF	-

OK ▷ **REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY**

NG

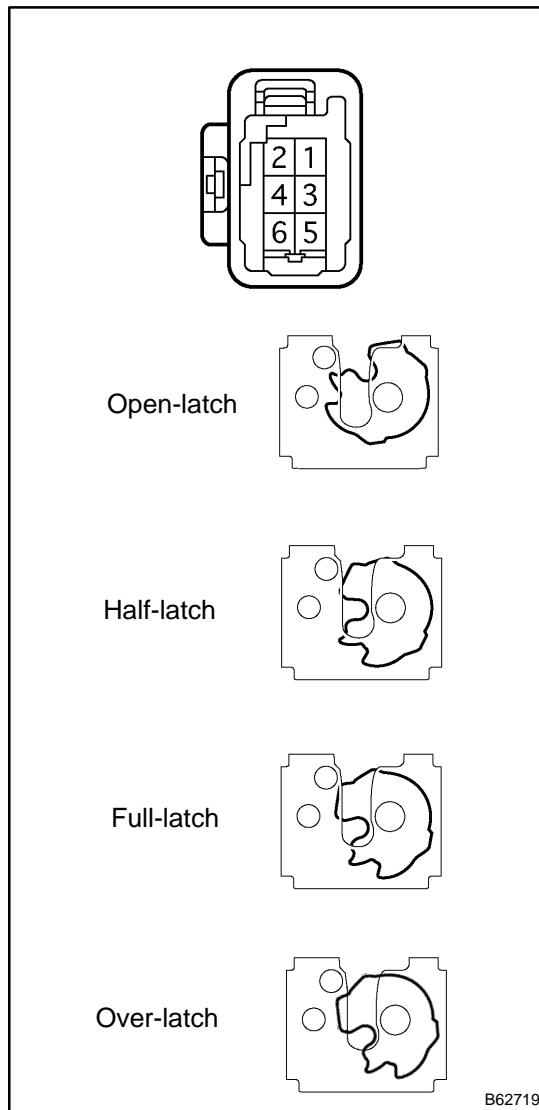| 5	INSPECT W/MOTOR BACK DOOR LOCK ASSY

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

NG >	**REPLACE BACK DOOR OPENER SWITCH ASSY**

OK

REPAIR OR REPLACE HARNESS AND CONNECTOR (W/MOTOR BACK DOOR LOCK ASSY (BACK DOOR LOCK) ⇔ MULTIPLEX NETWORK DOOR ECU BACK (BACK BODY ECU))