Memory Switch Circuit

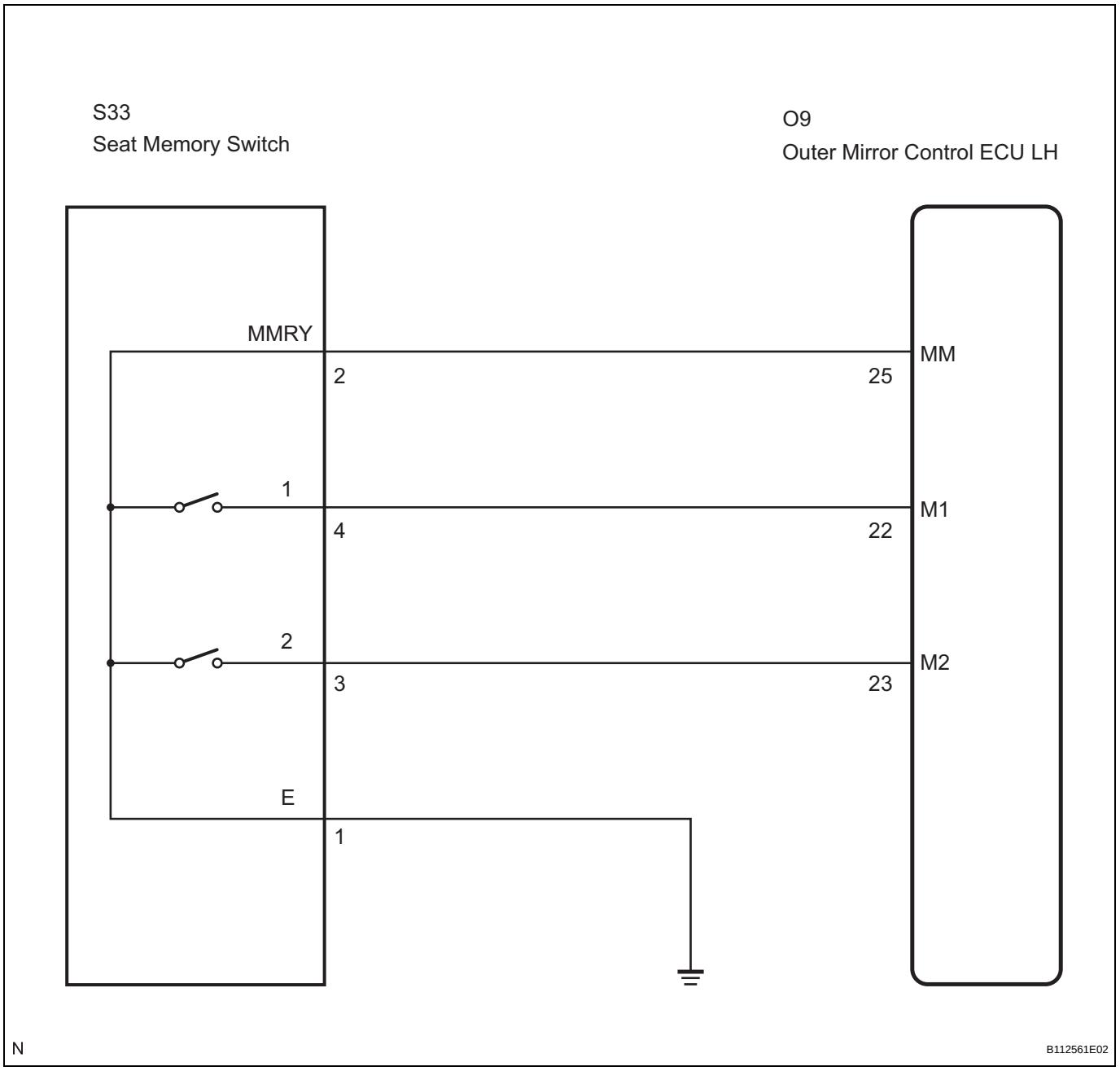
DESCRIPTION

When the seat memory switch M1 or M2 is pressed, the position control ECU & switch (Seat ECU) transmits a signal of the memorized mirror position to the outer mirror control ECU. Then, the outer mirror control ECU drives the mirror motor.

HINT:

The power mirror control system is a part of the multiplex communication system. This system features shared communication wiring that reduces the wiring complexity of the communication lines. The first step in any repair is to confirm the proper operation of the communication system. Proceed with troubleshooting after the communication has been verified (See the Multiplex Communication System) (See page MP-4).

WIRING DIAGRAM



INSPECTION PROCEDURE

1	READ VALUE OF INTELLIGENT TESTER

(a) Connect the intelligent tester to the DLC3.
(b) Ignition switch on.
(c) Enter the following menus: DIAGNOSIS / ENHANCED OBD II / DATA LIST.
(d) Check the DATA LIST for proper function of the seat memory switch.

D-SEAT

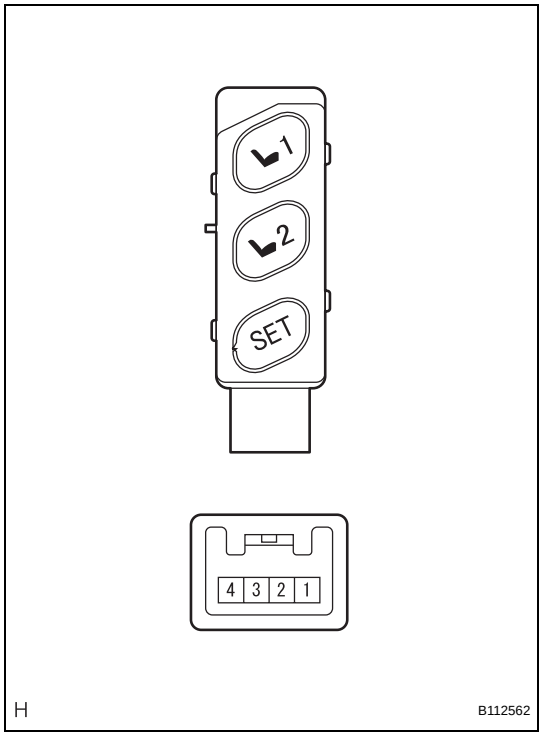
Item	Switch Position	Specified condition
D-MIRR MEM M1	Driver side mirror position memorized in seat memory switch M 1/NOT MEM or MEM	MEM: Memorized NOT MEM: Not memorized
D-MIRR MEM M2	Driver side mirror position memorized in seat memory switch M 2/NOT MEM or MEM	
P-MIRR MEM M1	Passenger side mirror position memorized in seat memory switch M 1/NOT MEM or MEN	
P-MIRR MEM M2	Passenger side mirror position memorized in seat memory switch M 2/NOT MEM or MEN	

OK:
Tester displayed MEM.

OK → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

NG

2	INSPECT SEAT MEMORY SWITCH



(a) Remove the seat memory switch.
(b) Measure the resistance according to the value(s) in the table below when the switch is operated.
Standard resistance

Tester Connection	Switch Condition	Specified Condition
1 - 2	"SET" switch ON	Below 1 Ω
1 - 2	"SET" switch OFF	10 kΩ or higher
1 - 4	"1" switch ON	Below 1 Ω
1 - 4	"1" switch OFF	10 kΩ or higher
1 - 3	"2" switch ON	Below 1 Ω
1 - 3	"2" switch OFF	10 kΩ or higher

NG → **REPLACE SEAT MEMORY SWITCH**

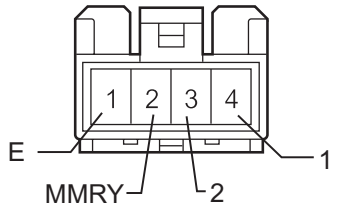
MI

OK

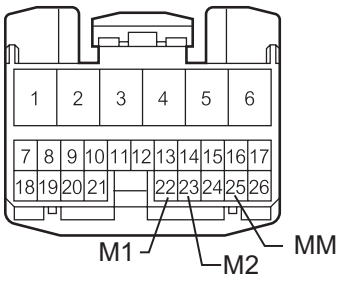
3	CHECK HARNESS AND CONNECTOR (SEAT MEMORY SWITCH - OUTER MIRROR CONTROL ECU)

Connector Front View:

S33
Seat Memory Switch



O9
Outer Mirror Control ECU



H

B112563E01

(a) Disconnect the S33 switch connector.
(b) Disconnect the O9 ECU connector.
(c) Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection (Symbols)	Condition	Specified Condition
S33-2 (MMRY) - O9-25 (MM)	Always	Below 1 Ω
S33-4 (1) - O9-22 (M1)	Always	Below 1 Ω
S33-3 (2) - O9-23 (M2)	Always	Below 1 Ω
S33-1 (E) - Body ground	Always	Below 1 Ω
S33-2 (MMRY) - Body ground	Always	10 kΩ or higher
S33-4 (1) - Body ground	Always	10 kΩ or higher
S33-3 (2) - Body ground	Always	10 kΩ or higher

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE OUTER MIRROR CONTROL ECU