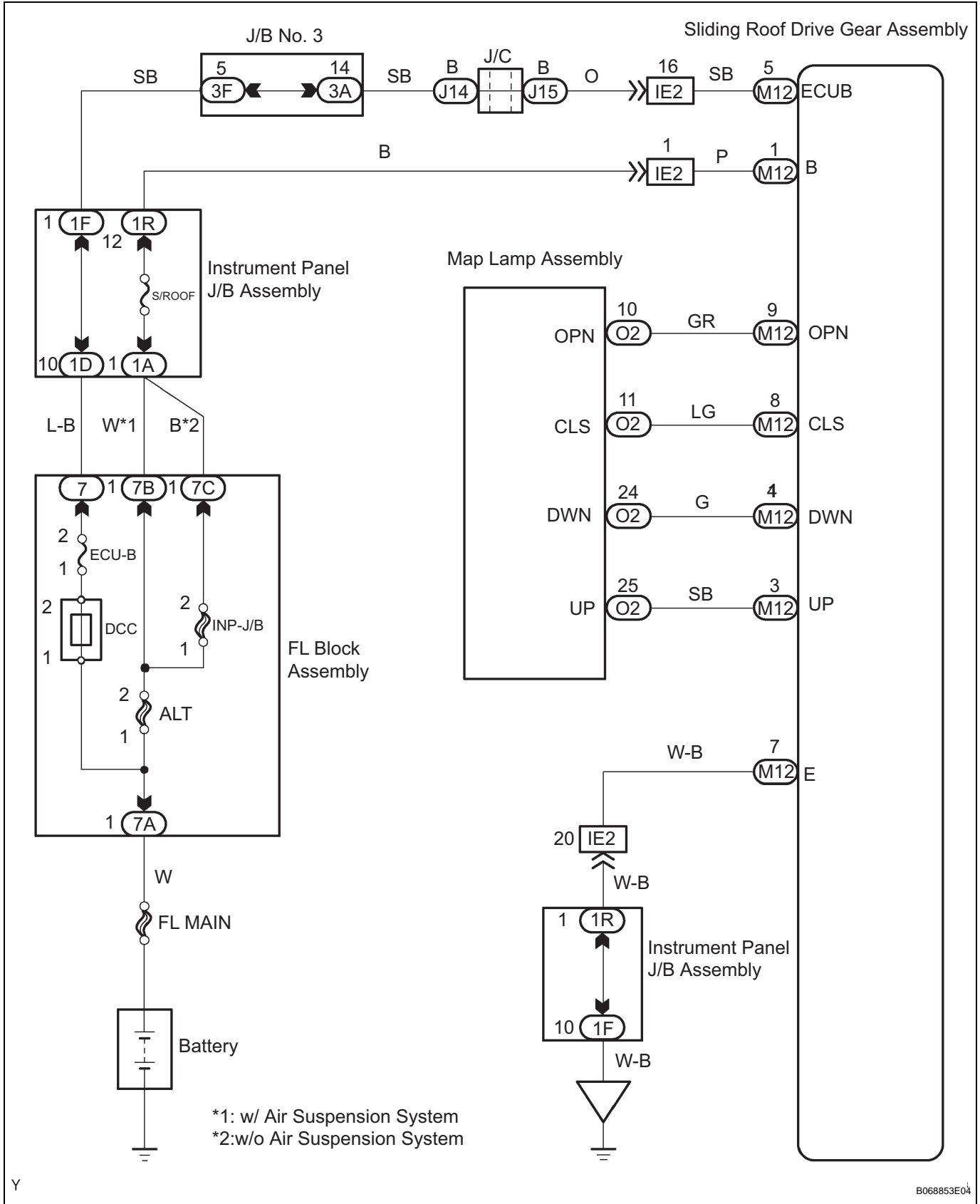


Sliding Roof does not Move by Operating Sliding Roof Control Switch**DESCRIPTION**

The sliding roof drive gear (Sliding roof ECU) monitors a sliding roof motor switch signal in line and the motor built in the sliding roof gear is driven.

WIRING DIAGRAM



Y

B068853E04

1 PERFORM ACTIVE TEST BY INTELLIGENT TESTER

- (a) Connect into intelligent tester to the DLC3.
- (b) Enter the ACTIVE TEST of the intelligent tester.

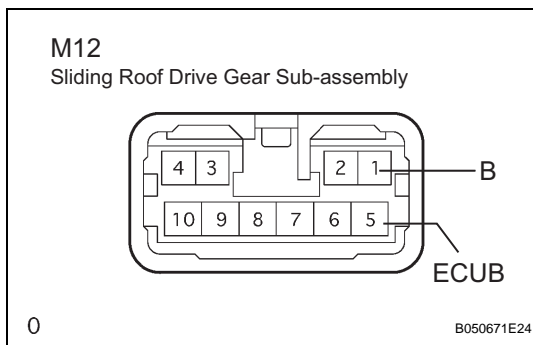
Standard (Sliding roof ECU) :

Item	Test Details	Diagnostic Note
SLIDE ROOF	Operate sliding roof CLOSE/UP	-
	Operate sliding roof OPEN/DOWN	-

OK

Go to step 4

NG

2 CHECK SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (POWER SOURCE)

- (a) Disconnect the M12 drive gear connector.
- (b) Check the voltage between the wire harness side connector and the body ground.

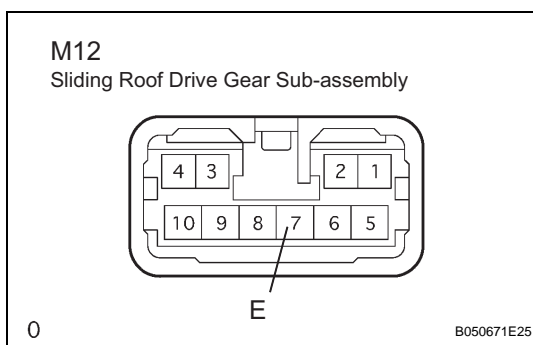
Voltage

Tester Connection	Specified Condition
M12-5 (ECUB) - Body ground	10 to 14 V
M12-1 (B) - Body ground	

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

3 CHECK SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (GROUND)

- (a) Disconnect the M12 drive gear connector.
- (b) Check the resistance between the wire harness side connector and the body ground.

Resistance

Tester Connection	Specified Condition
M12-7 (E) - Body ground	Below 1 Ω

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPLACE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY

4 READ VALUE OF INTELLIGENT TESTER (SLIDING ROOF MOTOR)

(a) Check the DATA LIST for proper functioning of the sliding roof motor.

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
LIMIT SW1	Sliding roof operating signal/ON or OFF	ON: Sliding roof motor is operating OFF: Sliding roof motor is not operating	-
LIMIT SW2	Sliding roof operating signal/ON or OFF	ON: Sliding roof motor is operating OFF: Sliding roof motor is not operating	-
MOTOR PULSE	Sliding roof operating signal/HI or LO	HI: Sliding roof motor is operating LO: Sliding roof motor is not operating	-
MOTOR STATUS	Sliding roof operating signal/NORMAL or LOCK	NORMAL: Sliding roof motor is not operating LOCK: Sliding roof motor is operating	-

NG

REPLACE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY

OK

5 READ VALUE OF INTELLIGENT TESTER (SLIDING ROOF TILT AND SLIDE SWITCH)

(a) Check the DATA LIST for proper functioning of the tilt and slide switches.

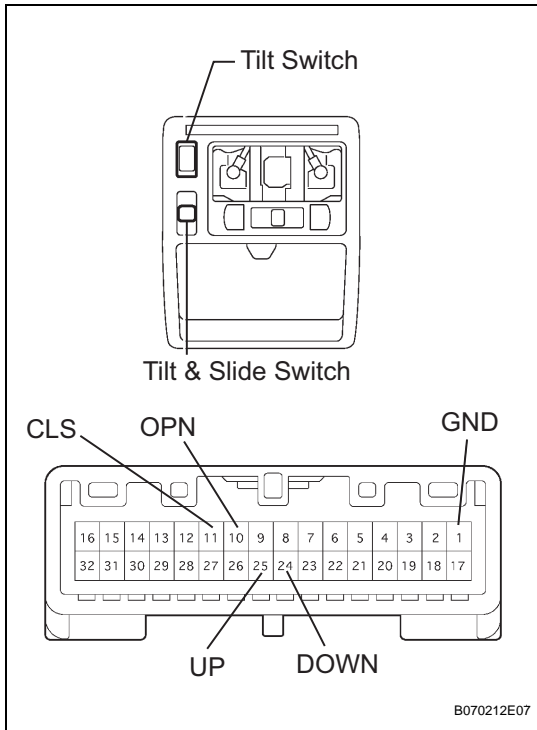
Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
OPEN SW	Sliding roof open switch signal/ON or OFF	ON: Sliding roof open switch is pressed OFF: Sliding roof open switch is not pressed	-
CLOSE SW	Sliding roof open switch signal/ON or OFF	ON: Sliding roof close switch is pressed OFF: Sliding roof close switch is not pressed	-
UP SW	Sliding roof open switch signal/ON or OFF	ON: Sliding roof up switch is pressed OFF: Sliding roof up switch is not pressed	-
DOWN SW	Sliding roof open switch signal/ON or OFF	ON: Sliding roof down switch is pressed OFF: Sliding roof down switch is not pressed	-

NG

REPLACE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY

OK

6 INSPECT MAP LIGHT ASSEMBLY



- (a) Check the tilt switch resistance.
Resistance

Tester Connection	Switch Position	Specified Condition
24 (DWN) - 1 (GND)	DOWN	Below 1 Ω
25 (UP) - 1 (GND)	UP	

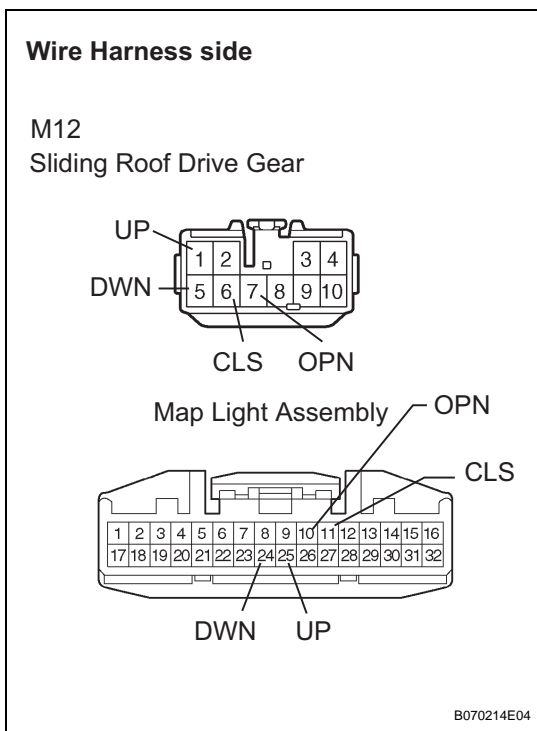
- (b) Check the tilt & slide switch resistance.
Resistance

Tester Connection	Switch Position	Specified Condition
10 (OPN) - 1 (GND)	OPEN	Below 1 Ω
11 (CLS) - 1 (GND)	CLOSE	

NG → **REPLACE MAP LIGHT ASSEMBLY**

OK

7 CHECK WIRE HARNESS ((SLIDING ROOF ECU) - MAP LIGHT ASSEMBLY)



- (a) Disconnect the M12 drive gear and O2 map light connectors.
(b) Check the resistance between the wire harness side connectors.
Resistance

Tester Connection	Specified Condition
M12-6 (OPN) - O2-10 (OPN)	Below 1 Ω
M12-7 (CLS) - O2-11 (CLS)	
M12-1 (DWN) - O2-24 (DWN)	
M12-2 (UP) - O2-25 (UP)	

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

OK

REPLACE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY