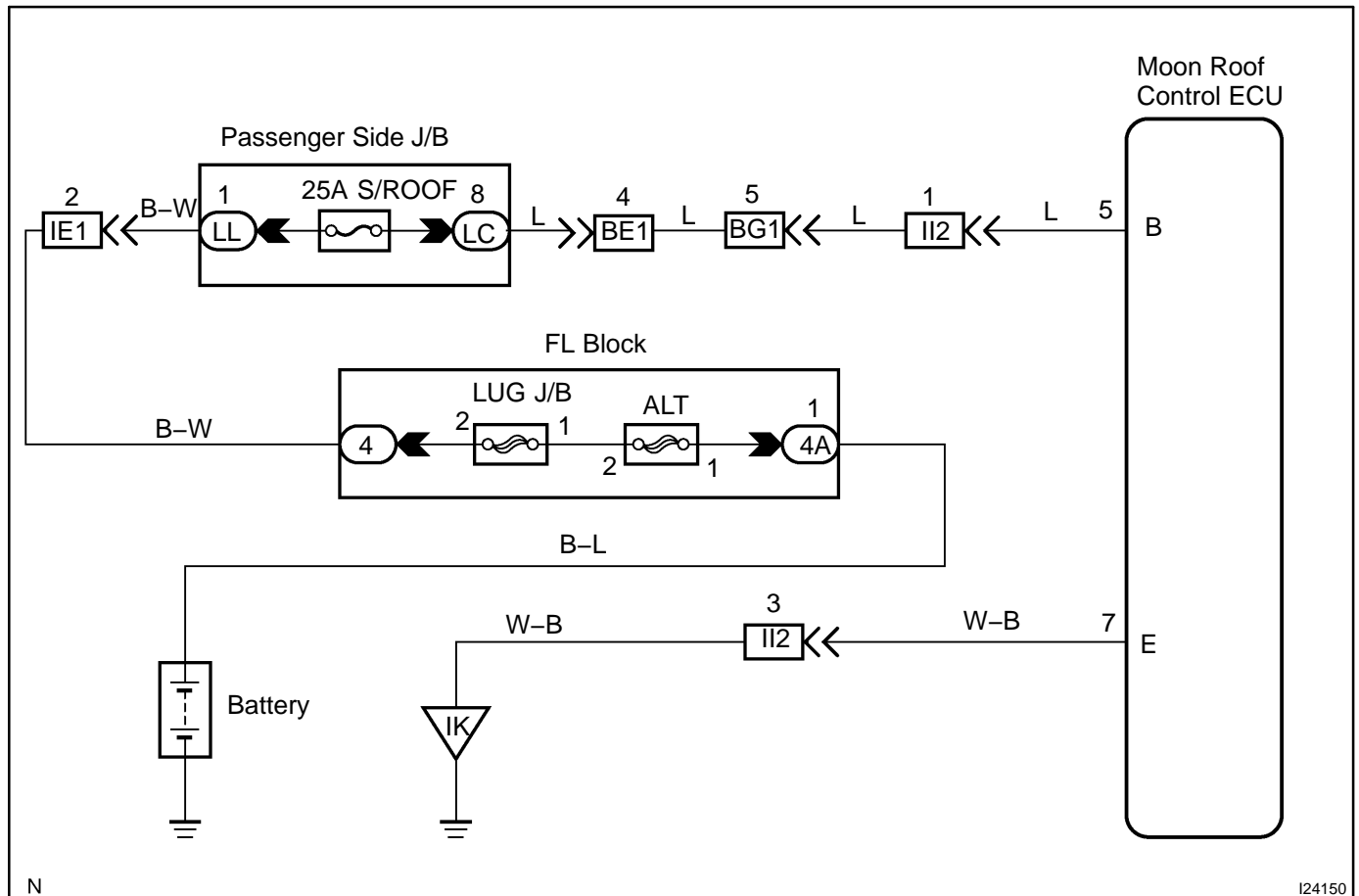


CIRCUIT INSPECTION

Sliding Roof Gear Assembly with ECU Power Source Circuit

WIRING DIAGRAM



N

124150

INSPECTION PROCEDURE

HINT:

If there is not the LEXUS hand-held tester, replace the sliding roof drive gear assembly.

1	Perform active test.
----------	-----------------------------

PREPARATION:

Connect the LEXUS hand-held tester to the DLC3.

CHECK:

- (a) Enter into ACTIVE TEST function of LEXUS hand-held tester.
- (b) Check that "Slide roof motor" operates as the LEXUS hand-held tester directs.

NOTICE:

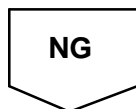
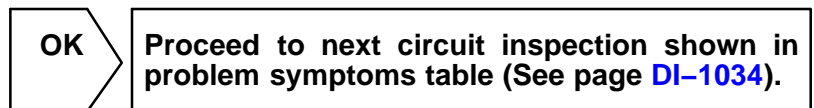
Caution is necessary not to be caught in the roof glass because the jam protection system does not operate during conducting ACTIVE TEST.

HINT:

With one ACTIVE direction, the sliding roof can be slid and tilted continuously.

OK:

The slide roof operates normally.



2	Check P-J/B, S/ROOF fuse and P-IG relay.
----------	---

CHECK:

- (a) Check continuity of P-J/B and S/ROOF fuse.
- (b) Check P-IG relay

OK:

Continuity



3	Check voltage between terminals P-IG1, S/ROOF and GND of sliding roof gear assembly with ECU connector.
----------	--

PREPARATION:

Turn the ignition switch ON.

CHECK:

Measure voltage between terminals P-IG1, and GND.

OK:

Voltage: 10 – 14V

PREPARATION:

(a) Turn the ignition switch OFF.

(b) Disconnect the sliding roof gear assembly with ECU connector.

CHECK:

Measure voltage between terminal B and GND.

OK:

Voltage: 10 – 14 V

NG

Replace sliding roof gear assembly with ECU (See page [BO-118](#)).

OK

4	Check harness and connector between sliding roof gear assembly with ECU and body ground.
----------	---

NG

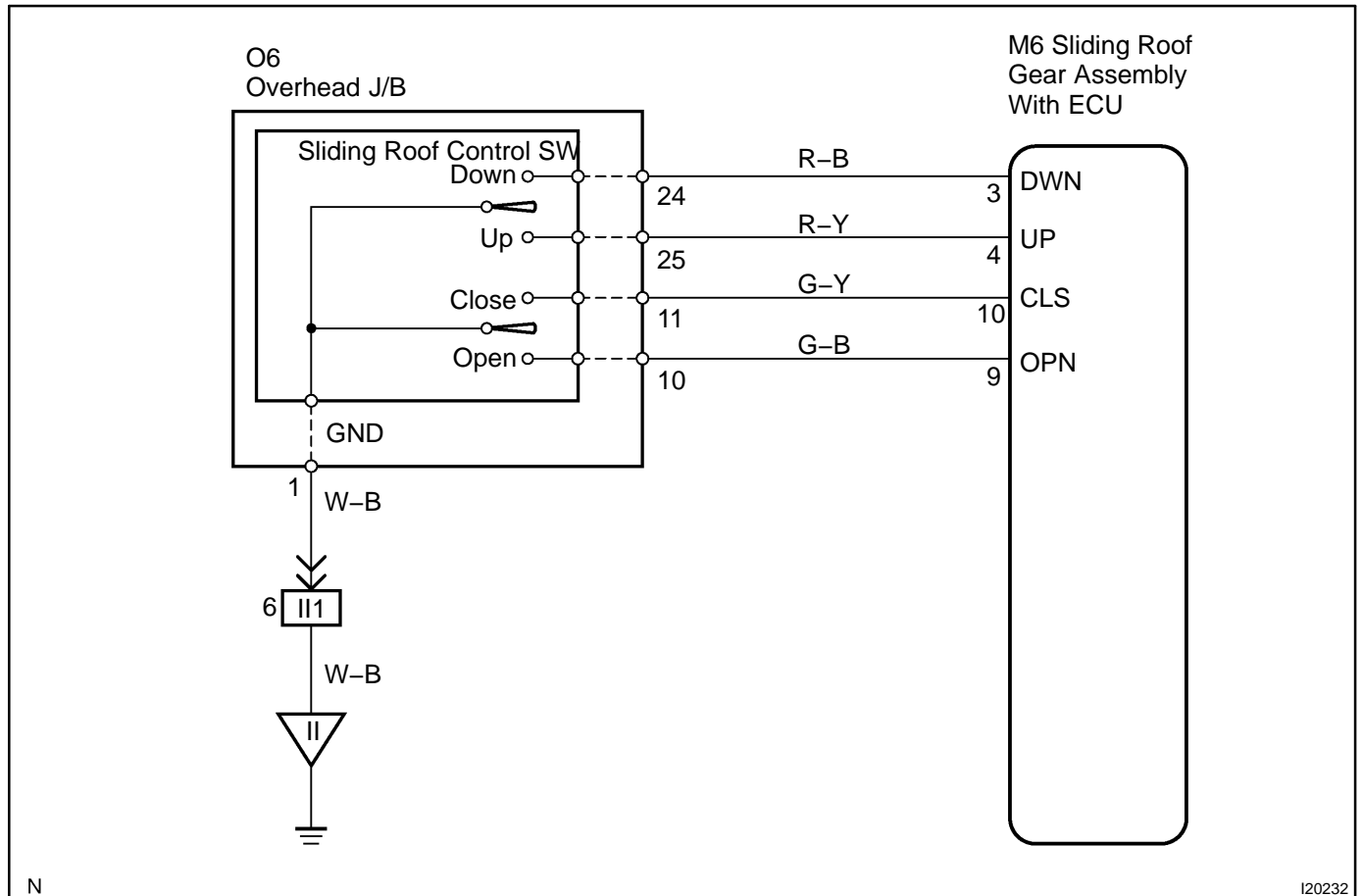
Repair or replace wire harness or connector.

OK

Proceed to next circuit inspection show on problem symptom table (See page [DI-1034](#)).

Sliding Roof Control Switch Circuit

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

If there is not the LEXUS hand-held tester, begin with STEP 2.

1	Check sliding roof control switch operation.
----------	---

PREPARATION:

Connect the LEXUS hand-held tester to the DLC3.

CHECK:

- (a) Enter DATA LIST function of LEXUS hand-held tester.
- (b) Check that switch status (ON/OFF) changes on the screen of LEXUS hand-held tester as the sliding roof control switch of the vehicle is turned.

OK:

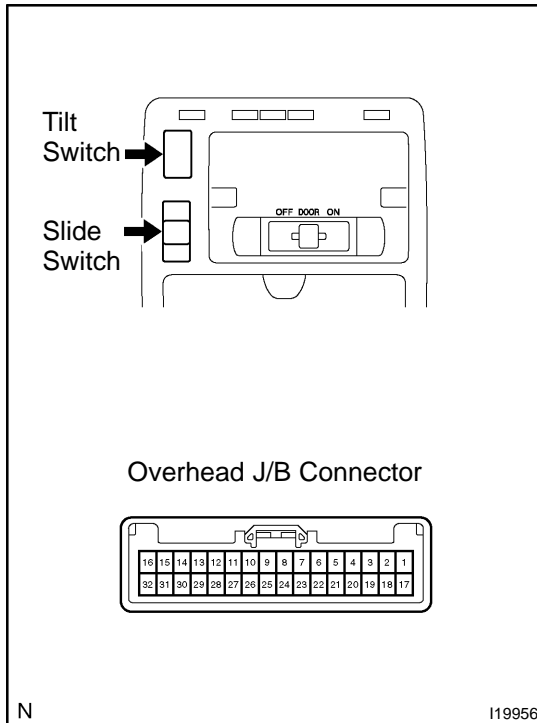
The motor operates normally.

NG

Replace sliding roof gear assembly with ECU
(See page [BO-118](#)).

OK

2 Check sliding roof control switch.



PREPARATION:

- (a) Remove the overhead J/B assembly.
- (b) Disconnect the overhead J/B assembly connector.

CHECK:

Check continuity between terminals when the switch is operated.

OK:

Switch position	Tester connection	Specified condition
SLIDE OPEN	1 - 10	Continuity
SLIDE OFF	-	No continuity
SLIDE CLOSE	1 - 11	Continuity
TILT DOWN	1 - 24	Continuity
TILT OFF	-	No continuity
TILT UP	1 - 25	Continuity

NG

Replace overhead J/B assembly.
(See page [BO-149](#))

OK

3 Check for open and short in wire harness and connectors between sliding roof gear assembly with ECU and overhead J/B assembly (See page [IN-34](#)).

NG

Repair and replace wire harness or connector.

OK

Proceed to next circuit inspection shown on problem symptom table (See page [DI-1034](#)).

Sliding Roof Pulse Plate Circuit

WIRING DIAGRAM

See page [DI-1035](#).

INSPECTION PROCEDURE

HINT:

If there is not the LEXUS hand-held tester, begin with STEP 3.

1	Check sliding roof pulse plate operation.
----------	--

PREPARATION:

- (a) Connect the LEXUS hand-held tester to the DLC3.
- (b) Turn ignition switch ON and LEXUS hand-held tester main switch ON.
- (c) Select the ACTIVE TEST mode on the LEXUS hand-held tester.

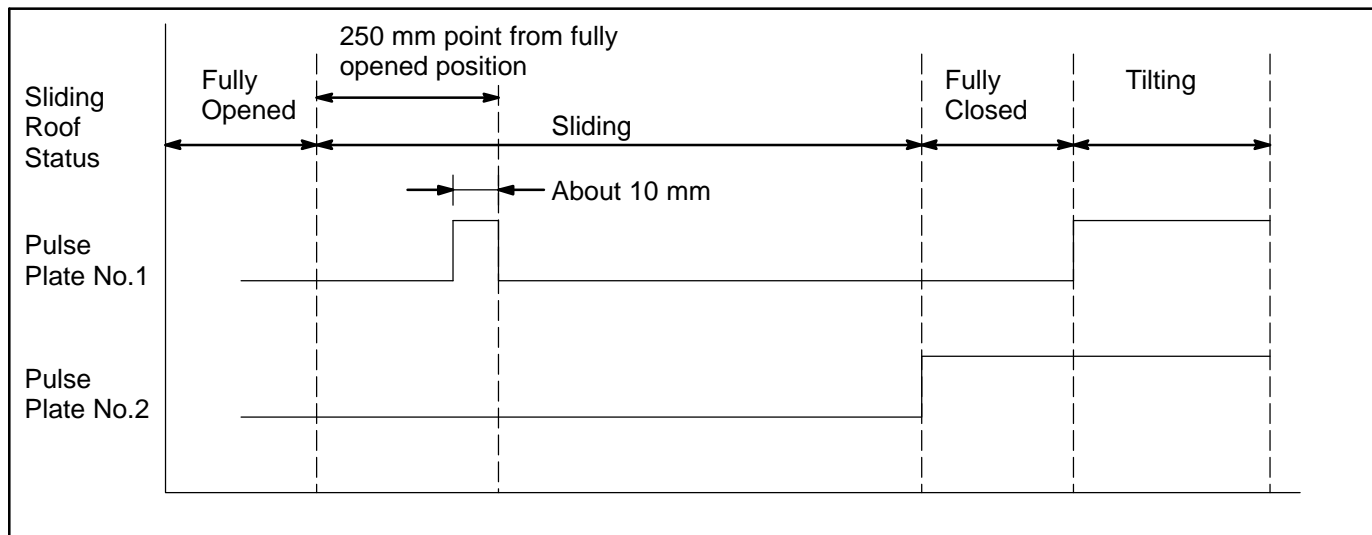
CHECK:

- (a) Operate the slide roof as the LEXUS hand-held tester directs.
- (b) At this time, check that status (ON/OFF) of pulse plate No.1 and No.2 changes on the LEXUS hand-held tester screen as shown in the chart below.

NOTICE:

Caution is necessary for a part of body not to be caught in as the jam protection system does not operate during conducting ACTIVE TEST.

OK:



NG

Replace sliding roof gear assembly with ECU.

OK

2	Check sliding roof motor status.
----------	---

PREPARATION:

Connect the LEXUS hand-held tester to the DLC3.

CHECK:

- (a) Enter into ACTIVE TEST mode of LEXUS hand-held tester.
- (b) Check that "Sliding Roof" operates as the LEXUS hand-held tester directs.
- (c) At this time, check that motor status changes on the screen of LEXUS hand-held tester as the sliding roof switch of the vehicle is turned.

OK:

The motor operates normally.

NG	Replace sliding roof gear assembly with ECU.
-----------	---

OK

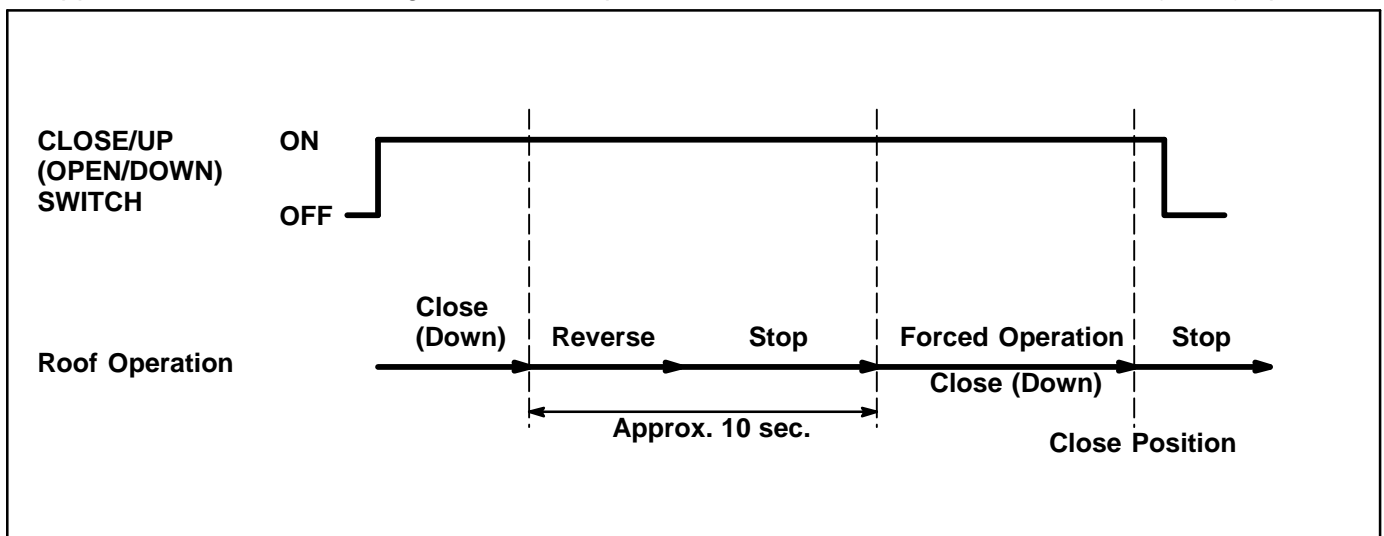
Go to step 4.

3	Perform forced operation.
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Holding the CLOSE/UP (OPEN/DOWN) switch pressed inhibits the jam protection function at approx. 10 sec. after starting the reverse operation. If the switch remains pressed any longer, the sliding door starts close operation and it stops when detecting the fully closed position.

HINT:

At approx. 10 sec. after starting the reverse operation, it is switched to the forced close (down) operation.



4	Check sliding roof glass alignment. (Mechanical malfunction) (See page BO-116).
---	--

NG

Adjust sliding roof (See page [BO-122](#)).

OK

Replace sliding roof gear assembly with ECU.