

SLIDING ROOF PULSE PLATE CIRCUIT

CIRCUIT DESCRIPTION

The sliding roof ECU detects the status of the sliding roof (fully open, fully closed, sliding or tilting) by the limit switch (pulse plate) No. 1 and No. 2.

WIRING DIAGRAM

See page 05-2959.

INSPECTION PROCEDURE

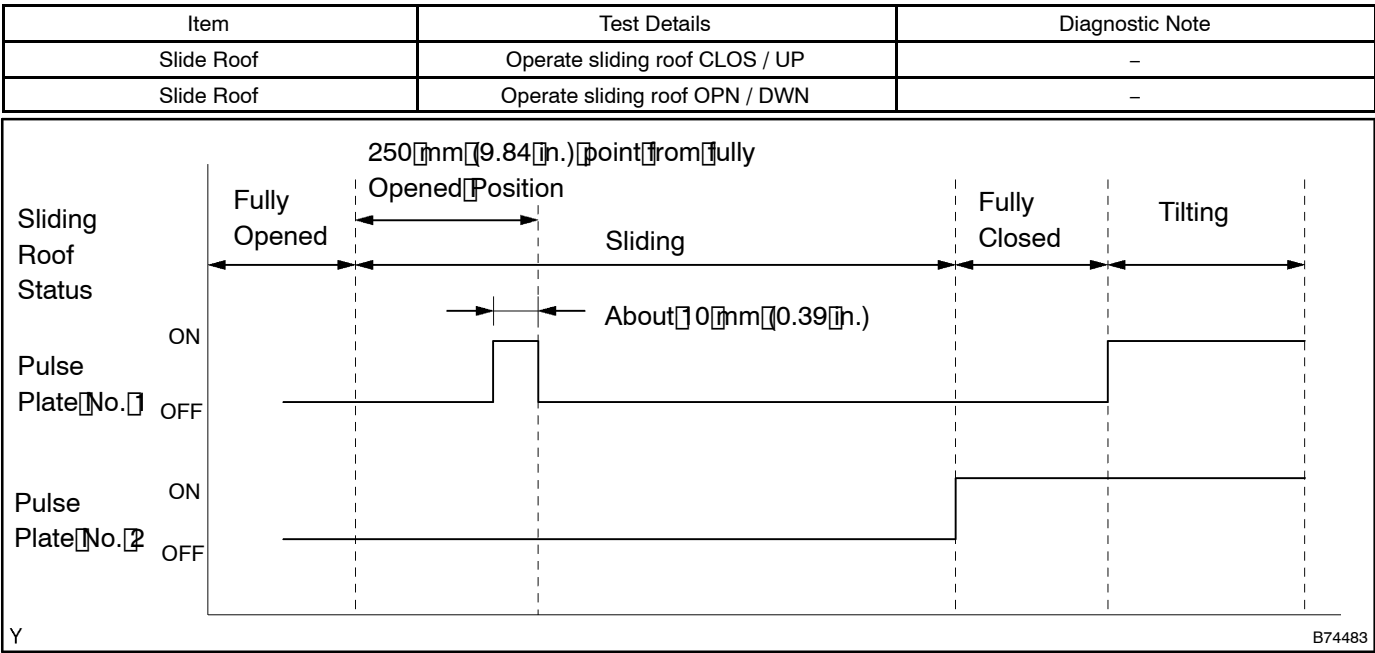
1 PERFORM ACTIVE TEST USING INTELLIGENT TESTER II

- (a) Select the ACTIVE TEST, use the intelligent tester II to generate a control command.
- (b) At this time, check that the status (ON/OFF) of the pulse plate No. 1 and No. 2 changes on the intelligent tester II screen as shown in the chart below.

CAUTION:

The jam protection system does not function when performing the ACTIVE TEST. When closing the sliding roof, keep body parts and objects clear.

Sliding roof ECU:



OK:

When the sliding roof is operating, the pulse plate should turn ON/OFF as shown in the chart above.

NG

REPLACE SLIDING ROOF DRIVE GEAR ASSY

OK

**2 READ VALUE OF INTELLIGENT TESTER II (SLIDING ROOF MOTOR)**

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

**Sliding roof ECU:**

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	-
Hall IC Pulse	Sliding roof operating signal/LO or HI	LO: Sliding roof motor is not operating HI: Sliding roof motor is operating	-
Hall IC Status	Sliding roof operating signal/NORMAL or LOCK	NORMAL: Sliding roof motor is operating LOCK: Sliding roof motor is not operating	-

**OK:**

When the sliding roof motor is operating, the intelligent tester screen should display as shown in the chart below.

Switch Item (Tester Display)	No Operating	Operating
Limit SW1	OFF	ON
Limit SW2	OFF	ON
Hall IC Pulse	LO	HI
Hall IC Status	LOCK	NORMAL

**NG****REPLACE SLIDING ROOF DRIVE GEAR ASSY****OK****3 INSPECT SLIDING ROOF GLASS ALIGNMENT (MECHANICAL MALFUNCTION)  
(See page 74-4)****NG****ADJUST SLIDING ROOF (See page 74-4)****OK****REPLACE SLIDING ROOF DRIVE GEAR ASSY**