2013 Ford Truck Explorer 2WD V6-3.5L
Vehicle > Body and Frame > Roof and Associated Components > Sunroof / Moonroof > Testing and Inspection > Pinpoint Tests > Roof Opening Panel

PINPOINT TEST B : THE ROOF OPENING PANEL DOES NOT OPEN OR CLOSE - SLIDING GLASS PANEL

Roof Opening Panel

The Roof Opening Panel Does Not Open or Close - Sliding Glass Panel

Normal Operation and Fault Conditions

REFER to Sunroof / Moonroof, Roof Opening Panel, Roof Opening Panel - Sliding Glass Panel Operation.

Visual Inspection and Diagnostic Pre-checks

Verify that BJB (Battery Junction Box) fuse 8 (20A) and BCM (Body Control Module) fuse 38 (10A) are OK.

PINPOINT TEST B : The Roof Opening Panel Does Not Open or Close - Sliding Glass Panel
B1 CHECK THE POWER WINDOW OPERATION

- Ignition ON.

- Verify the power windows operate.

Do the power windows operate?

Yes
GO to B2.

No

B2 CHECK THE FRONT SLIDING GLASS PANEL MOTOR FOR INITIALIZATION

- Carry out the front sliding glass panel motor initialization procedure. Refer to Roof Opening Panel Motor Initialization- Sliding Glass Panel See: Sunroof / Moonroof > Programming and Relearning > Roof Opening Panel Motor Initialization - Sliding Glass Panel.

Is the concern still present?

Yes
GO to B3.
The system is operating normally at this time. The front sliding glass panel motor was not initialized.

**B3 CHECK THE ROOF OPENING PANEL CONTROL SWITCH**

- Ignition OFF.

- Disconnect: Roof Opening Panel Control Switch.

- Carry out the Roof Opening Panel Control Switch Component Test.
  for component testing.

**Is the roof opening panel switch OK?**

**Yes**

GO to B4.

**No**

INSTALL a new roof opening panel switch. Refer to Roof Opening Panel Control Switch See: Sunroof / Moonroof Switch > Removal and Replacement > Roof Opening Panel Control Switch.

**B4 CHECK FOR VOLTAGE TO THE FRONT SLIDING GLASS PANEL MODULE**

- Disconnect Roof Opening Panel Module.

- Ignition ON.

- Measure:

  Positive Lead Measurement / Action Negative Lead C921-1

  ![Image](image1)

  Ground C921-2

  ![Image](image2)

  Ground
Yes
GO to B5.

No
VERIFY BJB (Battery Junction Box) fuse 8 (20A) and BCM (Body Control Module) fuse 38 (10A) are OK. If OK, REPAIR the affected circuit(s).

If not OK, Refer to the Wiring Diagrams to identify the possible causes of the circuit short.

B5 CHECK THE FRONT SLIDING GLASS PANEL MODULE GROUND

- Ignition OFF.

- Measure:

Positive Lead Measurement / Action Negative Lead C921-4

Ω

Ground

Is the resistance less than 3 ohms?

Yes
GO to B6.

No
REPAIR the circuit.

B6 CHECK THE SLIDING GLASS CONTROL CIRCUITS FOR AN OPEN

- Measure:

Positive Lead Measurement / Action Negative Lead C921-5

Ω
Pinpoint Test B : The Roof Opening Panel Does Not Open or Close - Sli...

C912-6 C921-6

Ω

C912-8 C921-12

Ω

C912-12

Are the resistances less than 3 ohms?

Yes
CHECK the overhead console jumper harness for loose pins or an open in the affected circuit(s) between the glass smartmotor and overhead console C921.

If the overhead console jumper harness is not OK, INSTALL a new overhead console jumper harness.

If the overhead console jumper harness is OK, GO to B7.

No
REPAIR the affected circuit(s).

B7 CHECK THE SLIDING GLASS CONTROL CIRCUITS FOR A SHORT TO GROUND

- Measure:

Positive Lead Measurement / Action Negative Lead C921-5

Ω

Ground C921-6
Ground C921-12

Are the resistances greater than 10,000 ohms?

Yes
CHECK the overhead console jumper harness for loose pins or an open in the affected circuit(s) between the glass smart motor and overhead console C921.

If the overhead console jumper harness is not OK, INSTALL a new overhead console jumper harness.

If the overhead console jumper harness is OK, GO to B8.
No
REPAIR the affected circuit(s).

B8 CHECK THE ROOF OPENING PANEL MODULE FOR CORRECT OPERATION

- Ignition OFF.

- Disconnect and inspect the roof opening panel module connector.

- Repair:
  - corrosion (install new connector or terminal - clean module pins)
  - damaged or bent pins - install new terminals/pins
  - pushed-out pins - install new pins as necessary

- Reconnect the roof opening panel module connector. Make sure it seats and latches correctly.

- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes
TSB (Technical Service Bulletin) instructions. If no TSBs (Technical Service Bulletins) address this concern, INSTALL a new front sliding glass panel module. Refer to Roof Opening Panel Motor - Sliding Front Panel See: Sunroof / Moonroof Motor > Removal and Replacement > Roof Opening Panel Motor - Sliding Front Panel.

No

The system is operating correctly at this time. The concern may have been caused by a loose or corroded