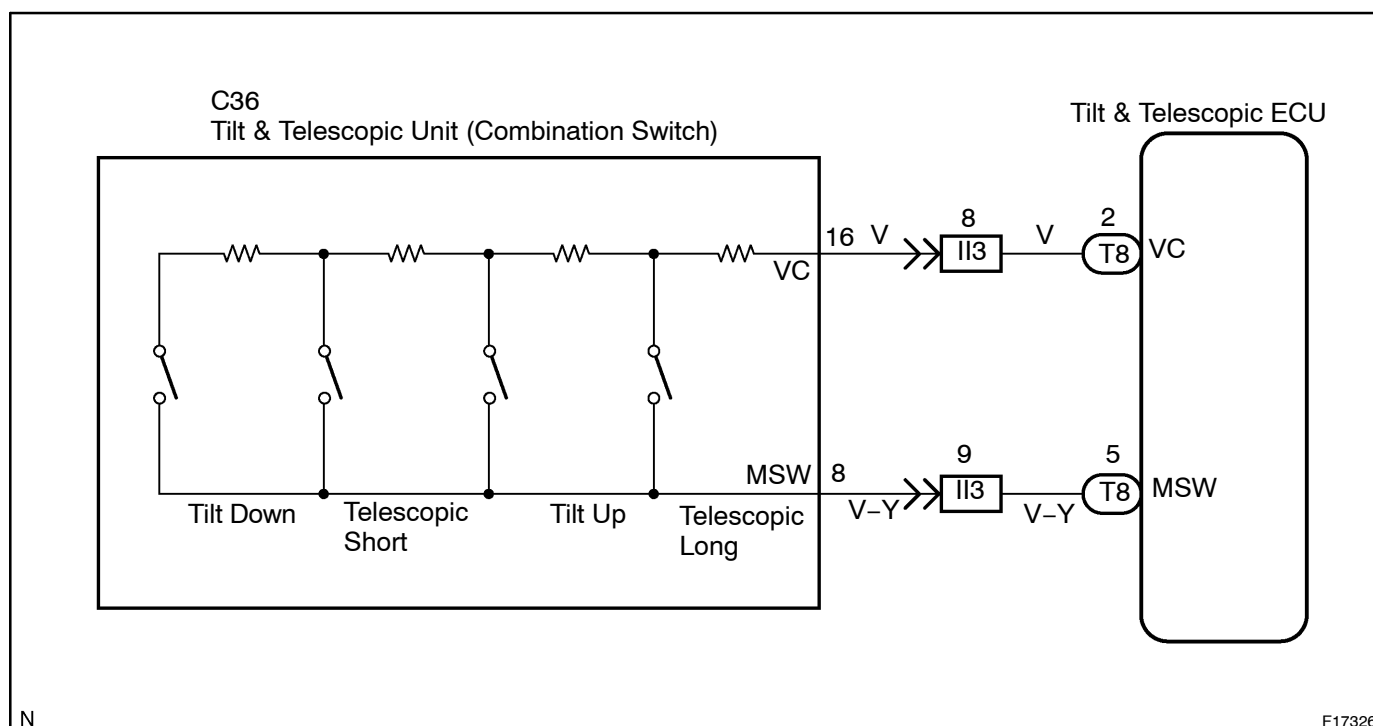


Tilt and Telescopic Manual Switch Circuit

CIRCUIT DESCRIPTION

The different voltage signals which are occurred by operating the manual switch are sent to the tilt and telescopic ECU.

WIRING DIAGRAM

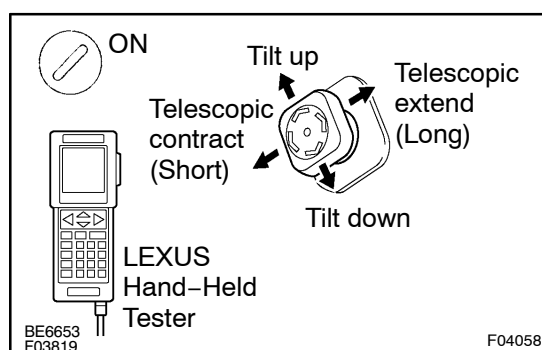


N

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INSPECTION PROCEDURE

- 1 Check tilt and telescopic manual switch voltage.



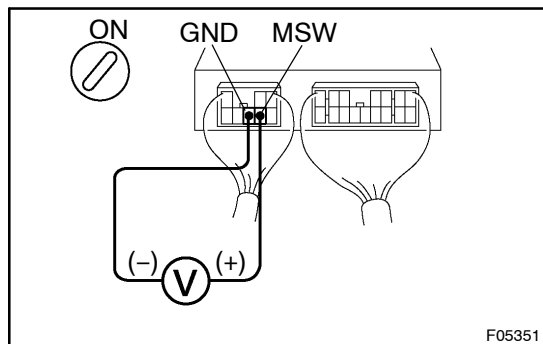
When using LEXUS hand-held tester

PREPARATION:

- Connect the LEXUS hand-held tester to the DLC3
- Turn ignition switch ON and push the LEXUS hand-held tester main switch ON.
- Select DATALIST mode on the LEXUS hand-held tester.

CHECK:

Read the voltages on the tester screen when operating the manual switch.

**When not using LEXUS hand-held tester****PREPARATION:**

Remove tilt and telescopic ECU with connector still connected.

CHECK:

Measure voltage between terminals MSW and GND of ECU connector when operating the manual switch.

OK:

Manual switch position	Standard voltage
Neutral position	0.00 – 0.20 V
Tilt UP	1.30 – 1.70 V
Tilt DOWN	0.30 – 0.50 V
Telescopic SHORT	0.65 – 0.95 V
Telescopic LONG	2.05 – 2.75 V

RESULT:

A	Switch voltages in all directions are within the standard.
B	Switch voltage in a certain direction is out of the standard.
C	Switch voltages in all directions are out of the standard.

A

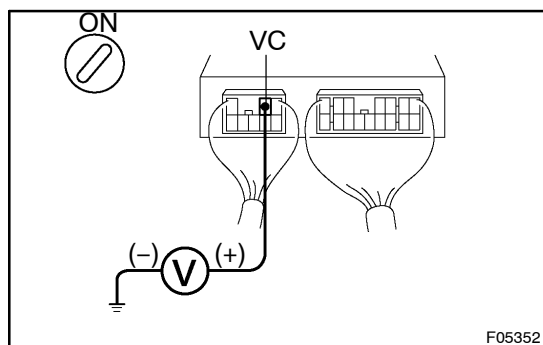
Proceed to next circuit inspection shown on the problem symptom table (See page [DI-593](#)).

B

Replace the manual switch.

C**2**

Check voltage between terminal VC of ECU connector and body ground.

**PREPARATION:**

Remove ECU with connectors still connected.

CHECK:

Measure voltage between terminal VC of ECU and body ground.

OK:

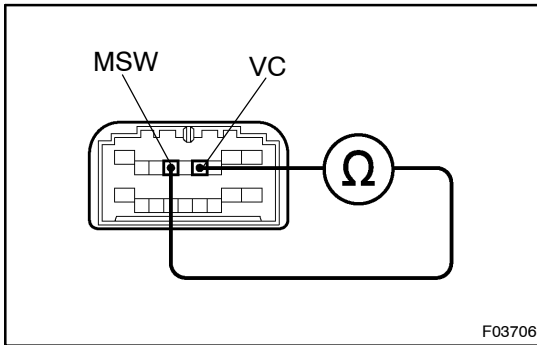
Voltage: 4.5 – 5.5 V

NG

Go to step 4.

OK

3 Check tilt and telescopic manual switch



PREPARATION:

Disconnect combination switch connector.

CHECK:

Measure resistance between terminals VC and MSW of combination switch connector when operating the manual switch.

OK:

Switch position	Resistance
Tilt up	360 Ω
Tilt down	1,990 Ω
Telescopic short	790 Ω
Telescopic long	160 Ω

NG

Replace the manual switch.

OK

4 Check for open or short circuit in harness and connector between tilt and telescopic ECU and manual switch (See page [IN-36](#)).

NG

Repair or replace harness or connector.

OK

Proceed to next circuit inspection shown on the problem symptom table (See page [DI-593](#)).