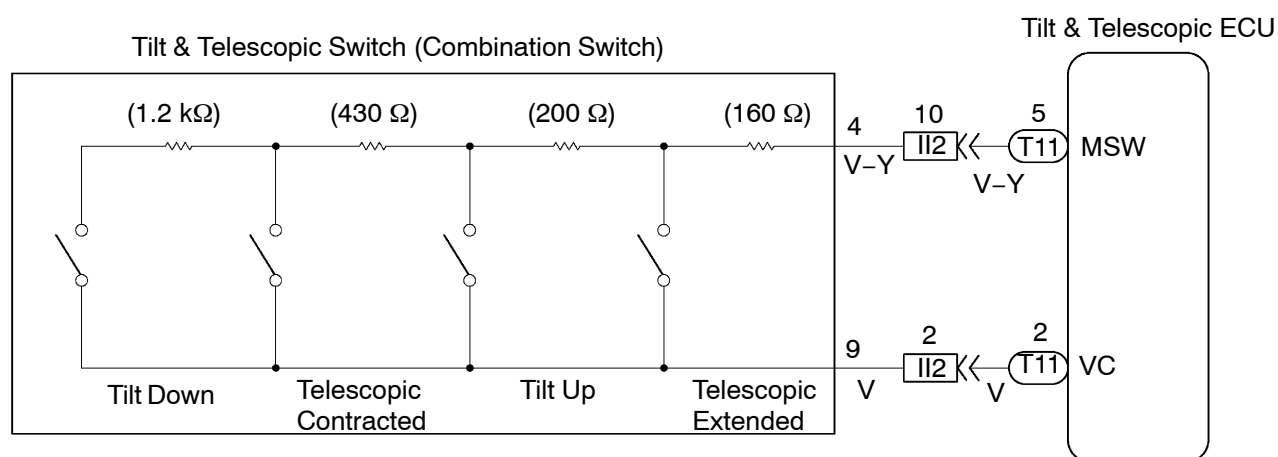


## Tilt and Telescopic Manual switch circuit

### CIRCUIT DESCRIPTION

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

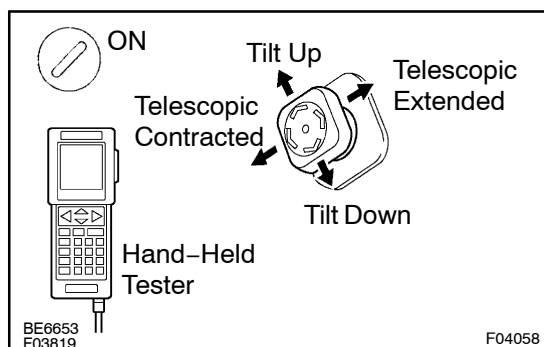
### WIRING DIAGRAM



F05986

### INSPECTION PROCEDURE

- 1 Check tilt and telescopic manual switch voltage.



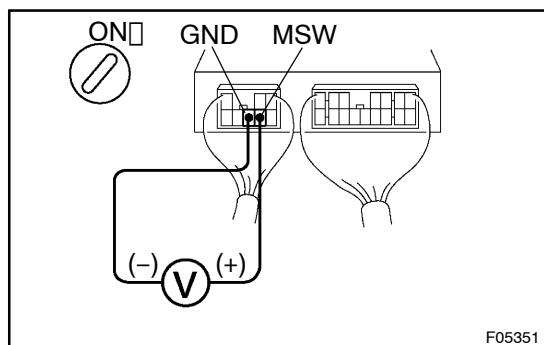
#### When using hand-held tester

##### PREPARATION:

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

##### CHECK:

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



### When not using 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 Contracted	0.65 – 0.95 V
Telescopic Extended	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

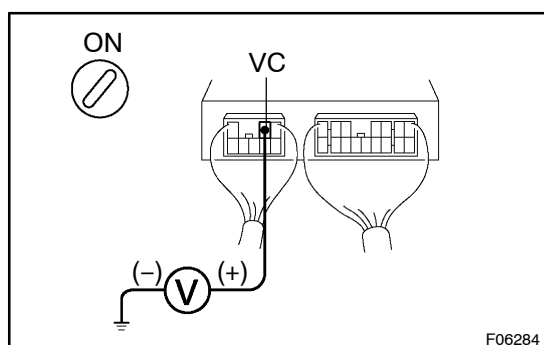
Proceed to next circuit inspection shown on the problem symptoms table. (See page DI-416)

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.

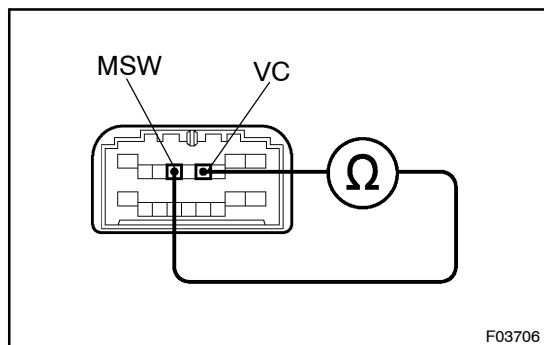
#### OK:

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	360Ω
Tilt Down	1,990Ω
Telescopic Contracted	790Ω
Telescopic Extended	160Ω

**NG****Replace the manual switch.****OK****4 Check harness and connector between tilt and telescopic ECU and manual switch. (See page IN-35)****NG****Repair or replace harness or connector.****OK**

Proceed to next circuit inspection shown on the problem symptoms table.  
(See page DI-416)