

Telescopic Position Sensor Circuit

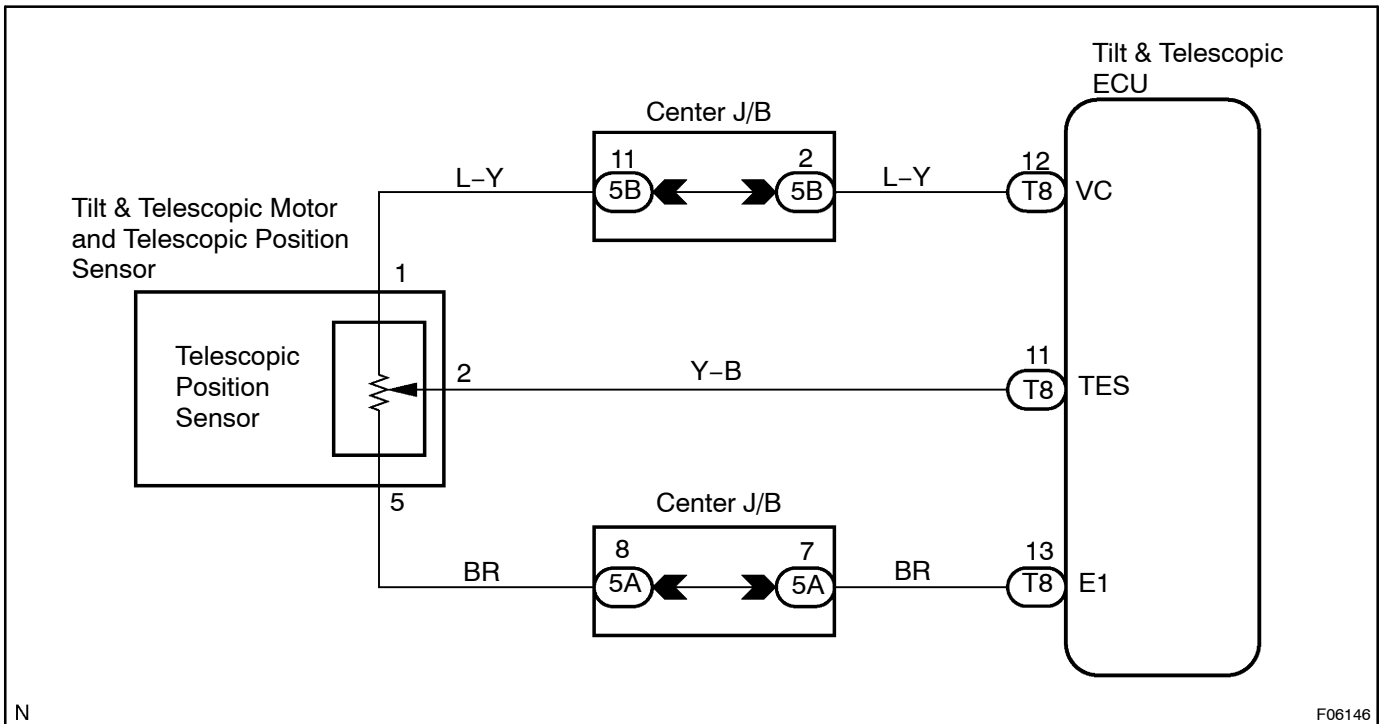
CIRCUIT DESCRIPTION

The telescopic position is sent to the ECU as a voltage signal from the position sensor.

A constant 5 V is supplied to terminal 1 of the sensor.

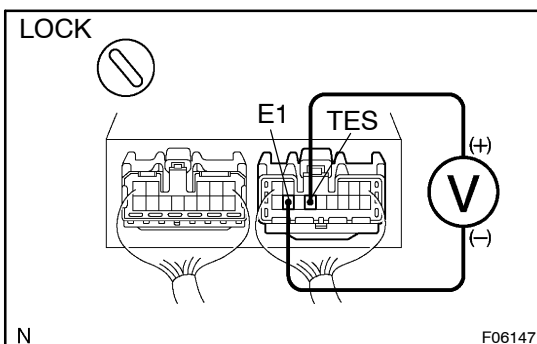
The voltage at terminal 2 varies with position and is input to the ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

- 1 Check voltage between terminals TES and E1 of ECU connector.



PREPARATION:

- Remove ECU with connectors still connected.
- Remove telescopic position sensor with connectors still connected.

CHECK:

Measure the voltage between terminals TES and E1 of ECU connector while turning the telescopic position sensor lever slowly by hand from contracted side to extended side.

OK:

Voltage:

Fully contracted: 0 – 1 V

Fully extended: 4 – 5 V

HINT:

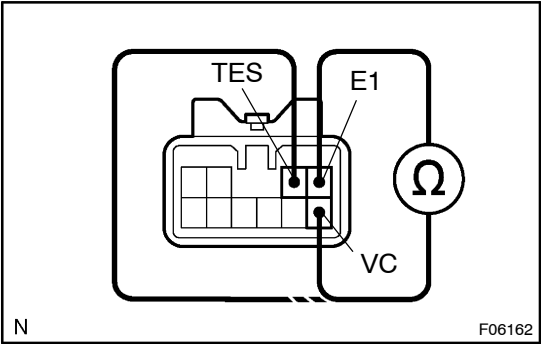
As the lever is turned, the voltage should increase gradually without interruption.

OK

Proceed to next circuit inspection shown on the problem symptoms table (See page DI-203).

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2 Check telescopic position sensor.



PREPARATION:
Disconnect tilt and telescopic motor and telescopic position sensor connector.

CHECK:
Measure the resistance between terminals VC and E1 of tilt and telescopic motor and telescopic position sensor connector.

OK:
Resistance: Approx. 5 kΩ

CHECK:
Measure the resistance between terminals TES and E1 of tilt and telescopic motor and telescopic position sensor connector while turning the telescopic position sensor lever slowly by hand from contracted side to extended side.

OK:
Resistance:
Fully contracted: 0 – 1 kΩ
Fully extended: 4 – 5 kΩ

HINT:
As the lever is turned, the resistance should increase gradually without interruption.

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Replace telescopic position sensor.

OK

3 Check harness and connector between ECU and telescopic position sensor (See page IN-30).

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Repair or replace harness or connector.

OK

Check and replace ECU.