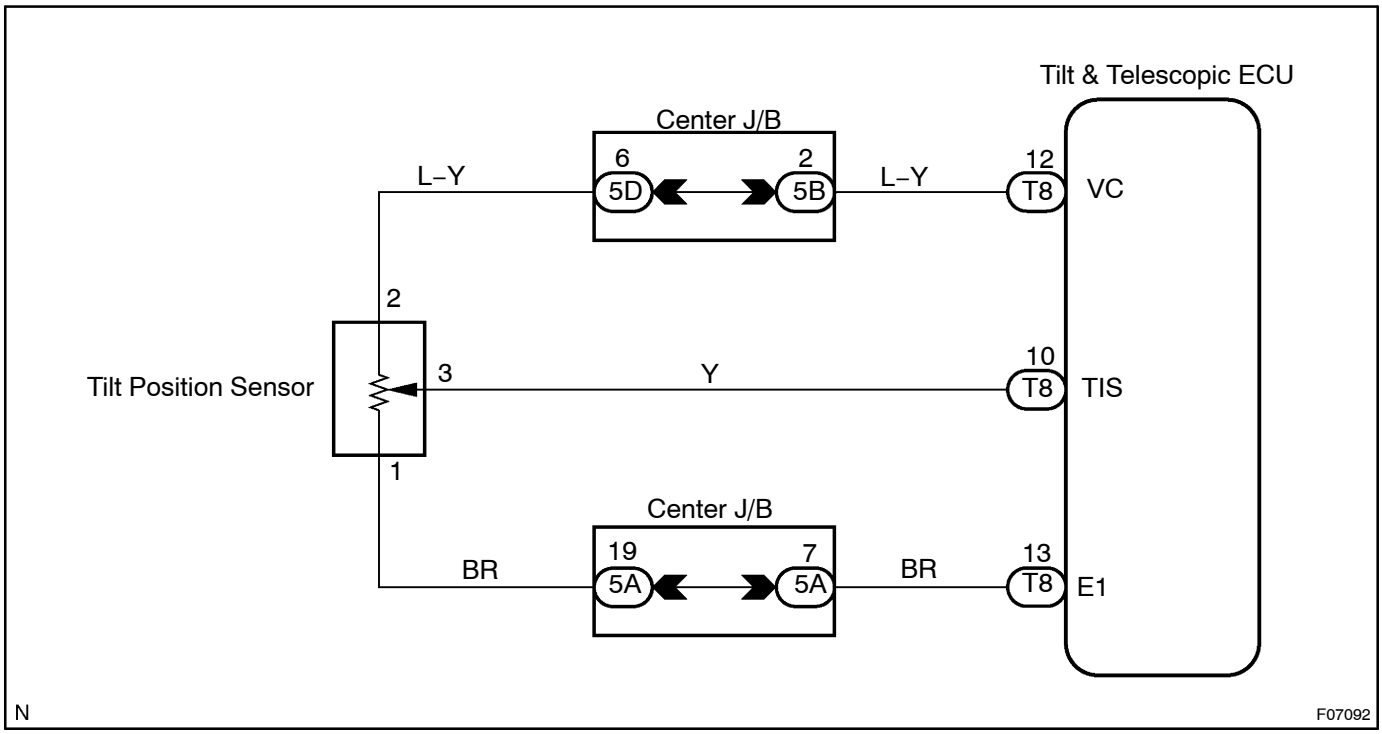
DI5Y2–01

Tilt Position Sensor Circuit

CIRCUIT DESCRIPTION

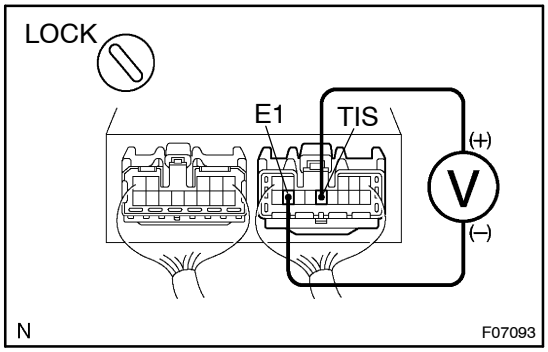
The tilt position is sent to the ECU as a voltage signal from the position sensor. A constant 5 V is supplied to terminal 2 of sensor. The voltage at terminal 3 varies with position and is input to the ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Check voltage between terminals TIS and E1 of ECU connector.**



PREPARATION:

(a) Remove ECU with connectors still connected.

(b) Remove tilt position sensor with connector still connected.

CHECK:

Measure voltage between terminals TIS and E1 of ECU connector, while turning the tilt position sensor lever slowly by hand from raised side to lowered side.

OK:

Voltage:

Fully raised: Below 1 V

Fully lowered: 4 – 6 V

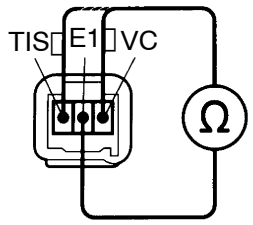
HINT:

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).

NG

2 Check tilt position sensor.



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PREPARATION:
Disconnect tilt position sensor connector.
CHECK:
Measure the resistance between terminals VC and E1 of tilt position sensor connector.
OK:
Resistance: 4 – 6 kΩ
CHECK:
Measure the resistance between terminals TIS and E1 of tilt position sensor connector, while turning the tilt position sensor lever slowly by hand from raised side to lowered side.
OK:
Resistance:
Fully raised: Below 100 Ω
Fully lowered: 4 – 6 kΩ
HINT:
As the lever is turned, the resistance should increase gradually without interruption.

NG → Replace tilt position sensor.

OK

3 Check harness and connectors between ECU and tilt position sensor (See page IN–30).

NG → Repair or replace harness or connector.

OK

Check and replace ECU.