

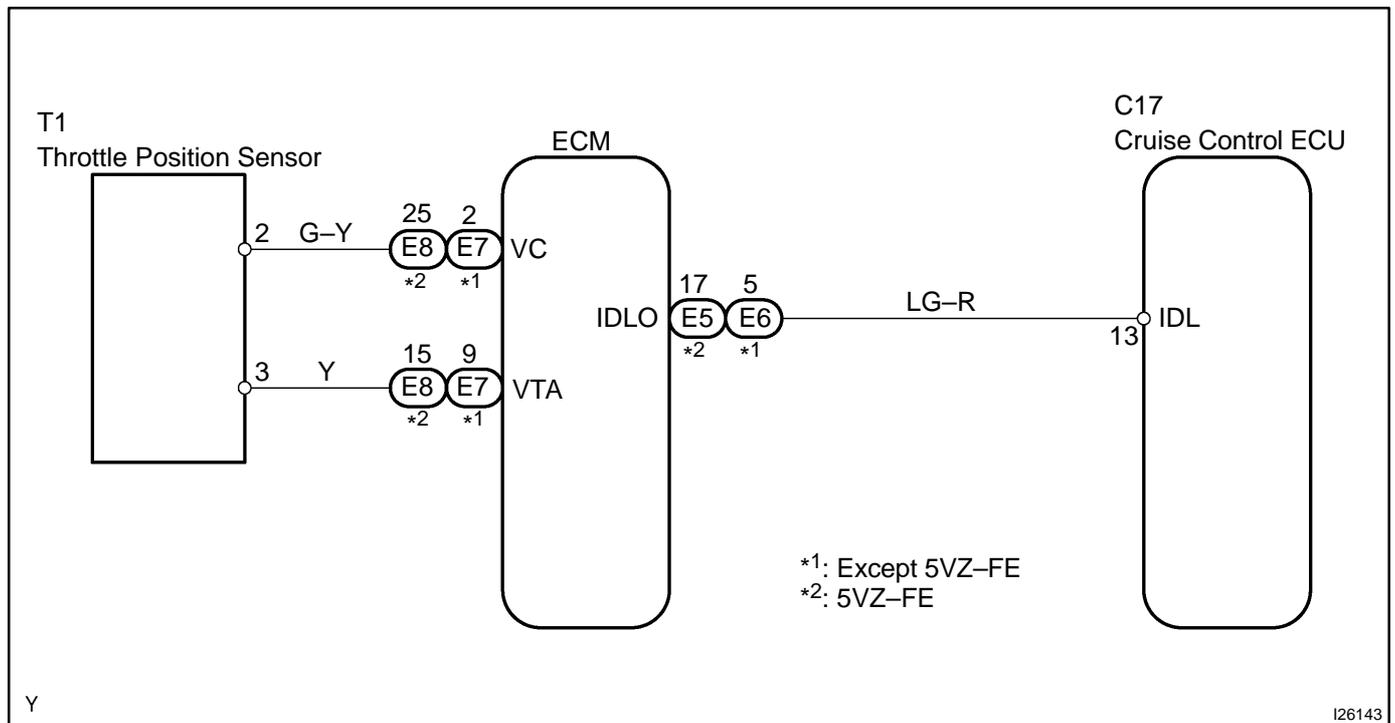
DTC	51	Idle Signal Circuit
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CIRCUIT DESCRIPTION

When the idle switch is turned on, a signal is sent to the ECU. The ECU uses this signal to correct a discrepancy between the throttle valve position and the actuator position sensor values, and it enables accurate cruise control at the set speed. If the idle switch malfunctions, problem symptoms occur also in the engine, so inspect the engine then.

DTC No.	DTC Detection Condition	Trouble Area
51	Short in idle signal circuit	<ul style="list-style-type: none"> • Harness or connector between ECM and throttle position sensor • Throttle position sensor • Harness or connector between cruise control ECU and ECM • Cruise control ECU

WIRING DIAGRAM

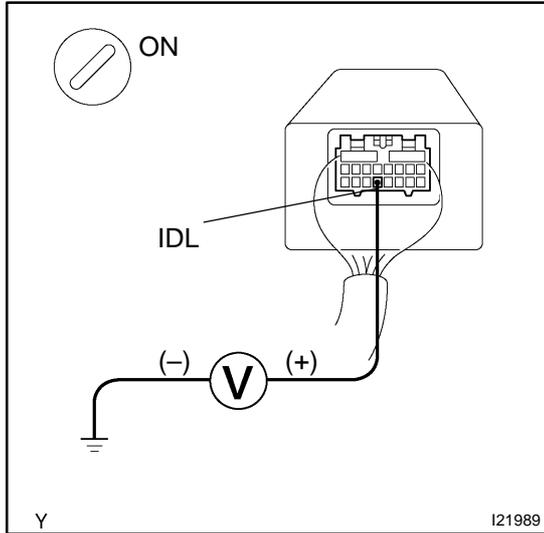


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I26143

INSPECTION PROCEDURE

1 Check voltage between terminal IDL of cruise control ECU connector and body ground.



PREPARATION:

- (a) Remove the ECU with the connector being connected.
- (b) Disconnect the ECM connector.
- (c) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminal IDL of the ECU connector and the body ground when the throttle valve is fully closed and fully opened.

OK:

Throttle Valve Position	Voltage
Fully opened	10 - 16 V
Fully closed	Below 1.5 V

OK → Proceed to next circuit inspection shown in problem symptoms table (See page [DI-730](#)).

NG

2 Check harness and connector between ECM and throttle position sensor (See page [IN-28](#)).

NG → Repair or replace harness or connector.

OK

3 Check throttle position sensor circuit (See page [DI-272](#)).

NG → Replace throttle position sensor.

OK

4	Check throttle position sensor.
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NG	Replace throttle position sensor.
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OK

5	Check for open and short in harness and connector between cruise control ECU and ECM (See page IN-28).
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NG	Repair or replace harness or connector.
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OK

Check and replace cruise control ECU.
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