

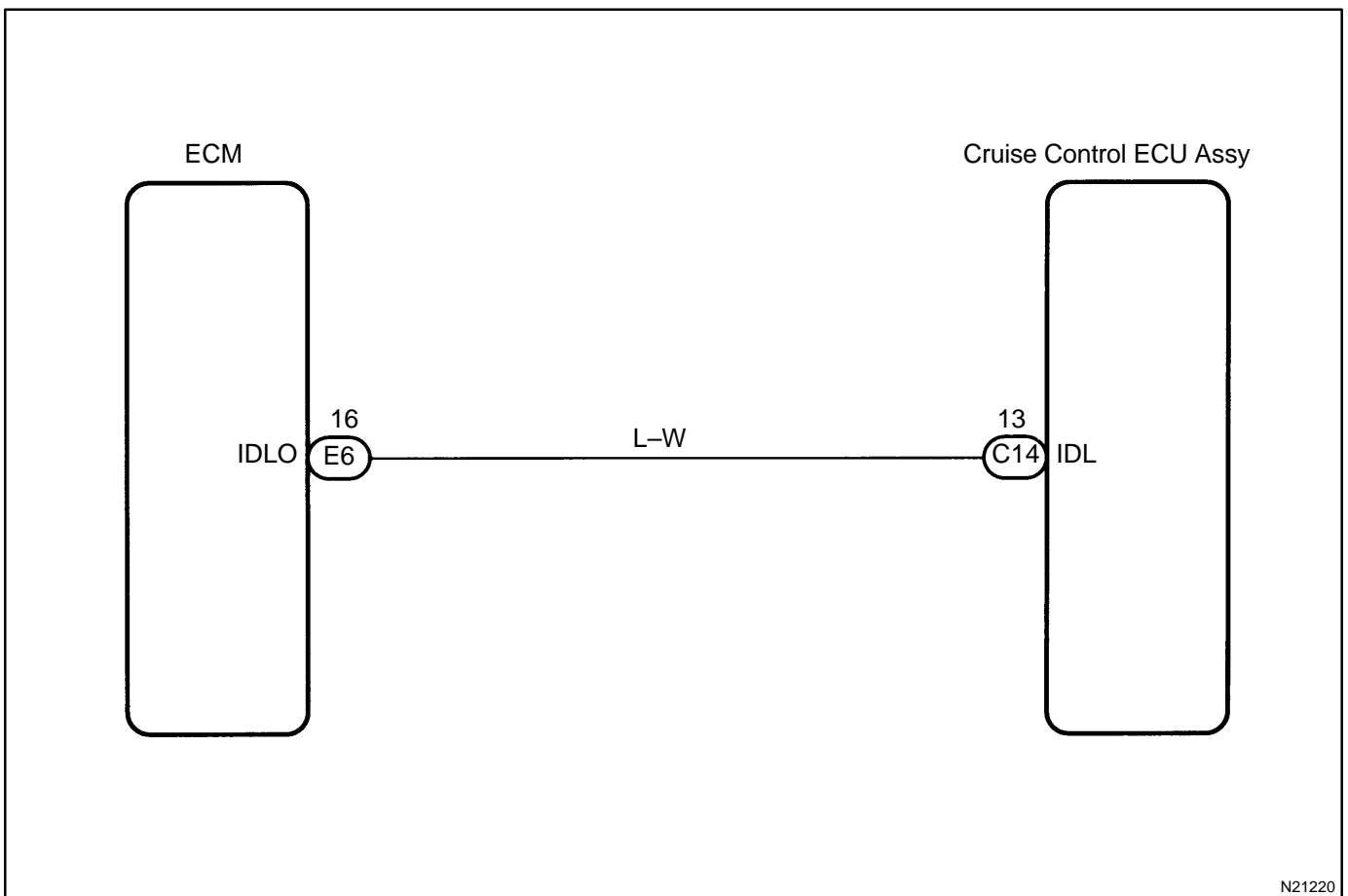
DTC	51	IDLE SIGNAL CIRCUIT
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CIRCUIT DESCRIPTION

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

DTC No.	DTC Detecting Condition	Trouble Area
51	<ul style="list-style-type: none"> • Short in idle signal circuit. 	<ul style="list-style-type: none"> • Throttle position sensor • Idle signal circuit • ECM • Cruise control ECU Assy

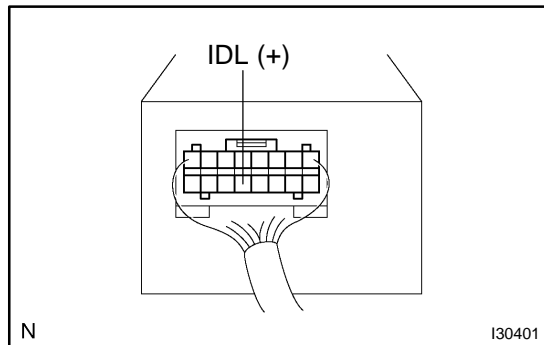
WIRING DIAGRAM



N21220

INSPECTION PROCEDURE

1 INSPECT TERMINAL VOLTAGE(IDL)



- (a) Remove the cruise control ECU assy with connector still connected.
- (b) Disconnect the ECM connector.
- (c) Turn the ignition switch to ON.
- (d) Measure voltage between terminal 13 (IDL) of cruise control ECU assy connector and 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 ON PROBLEM SYMPTOMS TABLE (See page 01-20)**

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2 CHECK HARNESS AND CONNECTOR(BETWEEN CRUISE CONTROL ECU ASSY AND ECM)

- (a) Check for open and short circuit in harness and connector between cruise control ECU assy and ECM (See page 05-638).

OK → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

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CHECK AND REPLACE CRUISE CONTROL ECU ASSY (See page 05-638)