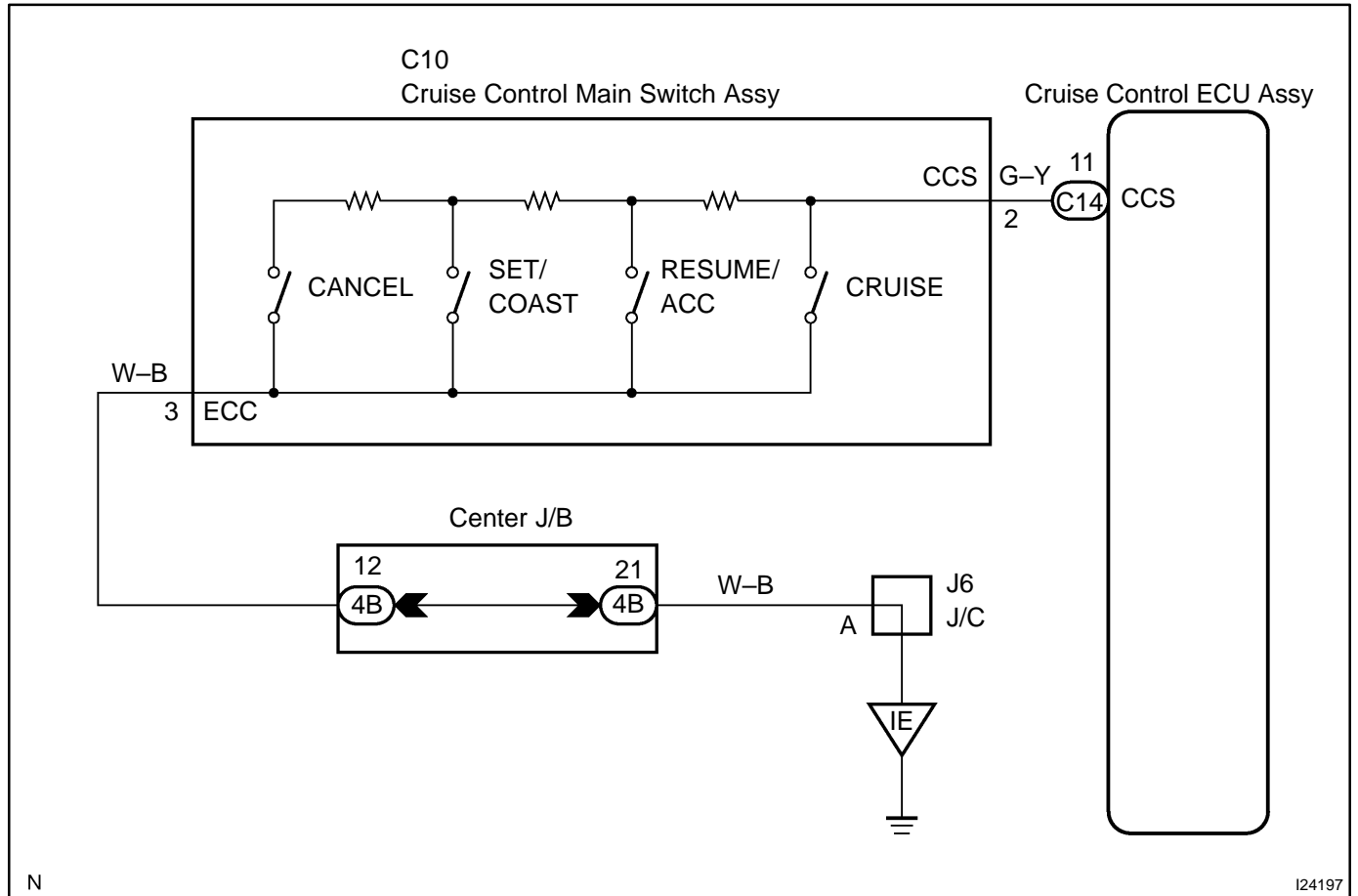


CRUISE CONTROL SWITCH CIRCUIT

CIRCUIT DESCRIPTION

This circuit carries the SET/COAST, RES/ACC and CANCEL signals (each voltage) to the cruise control ECU Assy.

WIRING DIAGRAM



N

I24197

INSPECTION PROCEDURE

1 INPUT SIGNAL CHECK

Input Signal	Indicator Light Blinking Pattern
SET/COAST Switch	<p>2 Pulses</p>
RES/ACC Switch	<p>3 Pulses</p>
CANCEL Switch	<p>SW OFF SW ON</p>

- (a) See input signal check on page 05-745.
- (b) Check the indicator light operation when each of the SET/COAST, RESUME/ACCEL and CANCEL is turned on.

OK:

SET/COAST, RESUME/ACCEL switch:

The signals shown in the table on the left should be output when each switch is ON. The signal should disappear when the switch is turned OFF.

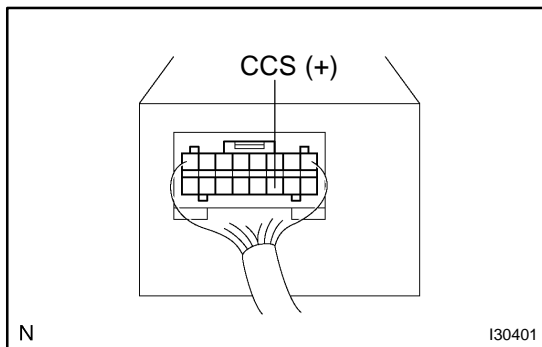
CANCEL switch:

The indicator light goes off when the cancel switch is turned ON.

OK → WAIT AND SEE

NG

2 INSPECT TERMINAL VOLTAGE(CCS)



- (a) Remove the cruise control ECU assy with the connector being connected.
- (b) Turn the ignition switch to ON.
- (c) Measure the voltage between terminals 11 (CCS) of the cruise control ECU assy connector and the body ground when each control switch is operated.

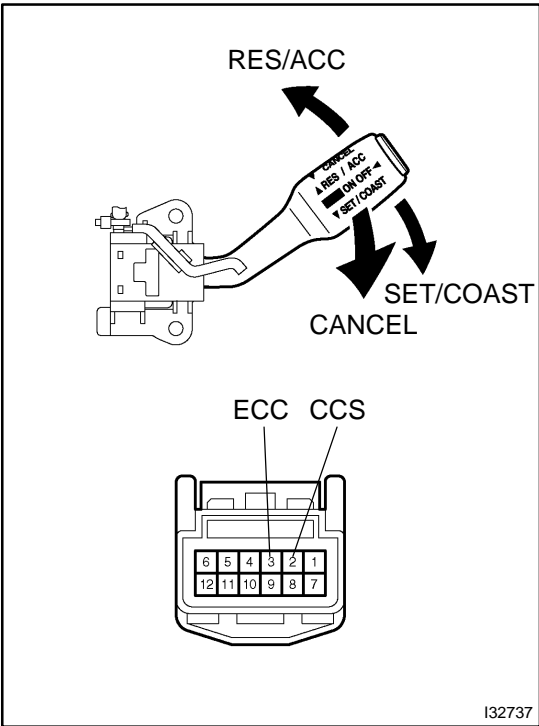
OK:

Switch Position	Voltage
Neutral	10 - 16 V
CRUISE ON-OFF	Below 0.5 V
RES/ACC	2.3 - 4.5 V
SET/COAST	4.5 - 8.1 V
CANCEL	6.6 - 11.4 V

NG → PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05-754)

OK

3 INSPECT CRUISE CONTROL MAIN SWITCH ASSY



- (a) Remove the steering wheel center pad (See page 50-8).
- (b) Disconnect the control switch assy connector.
- (c) Check continuity between terminals 2 (CCS) and 3 (ECC) of control switch assy connector when cruise control main switch assy is held ON and OFF.

OK:

Switch Position	Resistance
Neutral	∞ (No continuity)
CRUISE ON-OFF	0 Ω (Continuity)
RES/ACC	210 - 270 Ω
SET/COAST	560 - 700 Ω
CANCEL	1,380 - 1,700 Ω

NG → **REPLACE CRUISE CONTROL MAIN SWITCH ASSY**

OK

4 CHECK HARNESS AND CONNECTOR(BETWEEN CRUISE CONTROL MAIN SWITCH ASSY AND BODY GROUND)

- (a) Check for open and short circuit in harness and connector between cruise control main switch assy and body ground (See page 01-30).

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

5 CHECK HARNESS AND CONNECTOR(BETWEEN CRUISE CONTROL ECU ASSY AND CRUISE CONTROL MAIN SWITCH ASSY)

- (a) Check for open and short circuit in harness and connector between cruise control ECU assy and cruise control main switch assy (See page 01-30).

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

6 INPUT SIGNAL CHECK(See step 1)

OK

WAIT AND SEE

NG

CHECK AND REPLACE CRUISE CONTROL ECU ASSY (See page [01-30](#))