

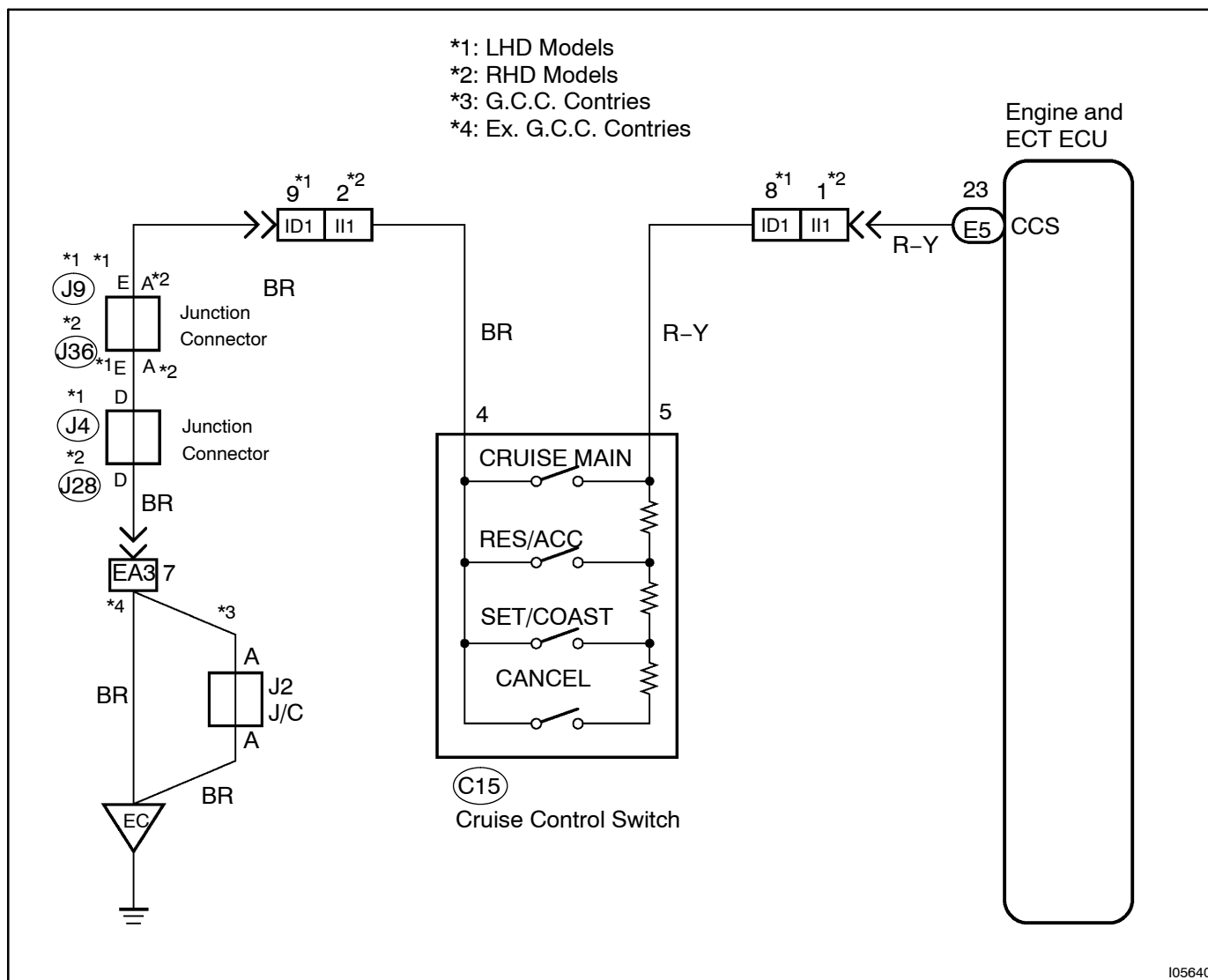
DTC	P1566/54	Input signal circuit abnormal
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CIRCUIT DESCRIPTION

This circuit carries the SET/COAST, RESUME/ACCEL and CANCEL signals (each voltage) to the ECU. and See page DTC52xxxx

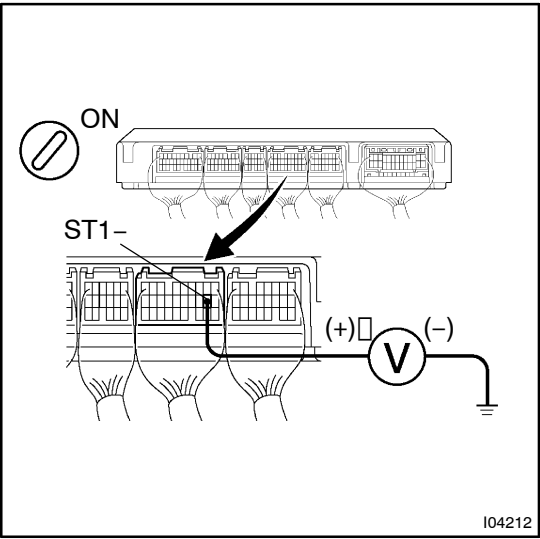
DTC No.	Detection Item	Trouble Area
54	<ul style="list-style-type: none"> Stop light switch input signal abnormal. Cruise control switch input signal abnormal. 	• Engine and ECT ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check voltage between terminal ST1- of ECU connector and body ground.



PREPARATION:

- (a) Remove the ECU with connectors still connected.
- (b) Turn ignition switch ON.

CHECK:

Measure voltage between terminal ST1- of ECU connector and body ground, when the brake pedal is depressed and released.

OK:

Released	10 - 14 V
Depressed	Below 1 V

OK

Proceed to next circuit inspection shown in problem symptoms table (See page DI-546).

NG

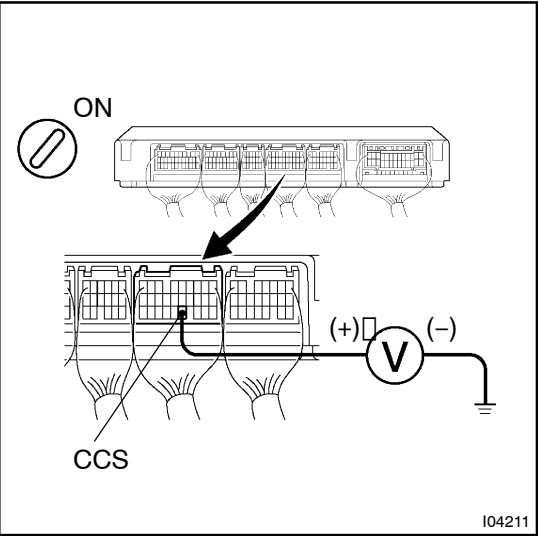
2 Check for open in harness and connectors between terminal ST1- of ECU and stop light switch (See page IN-29).

NG

Repair or replace harness or connector.

OK

3 Check voltage between terminals CCS of ECU connector and body ground.



PREPARATION:

- (a) Remove the ECU with connector still connected.
- (b) Turn ignition switch ON.

CHECK:

Measure voltage between terminals CCS of ECU connector and body ground, when each of the SET/COAST, RESUME/ACCEL and CANCEL is turned ON.

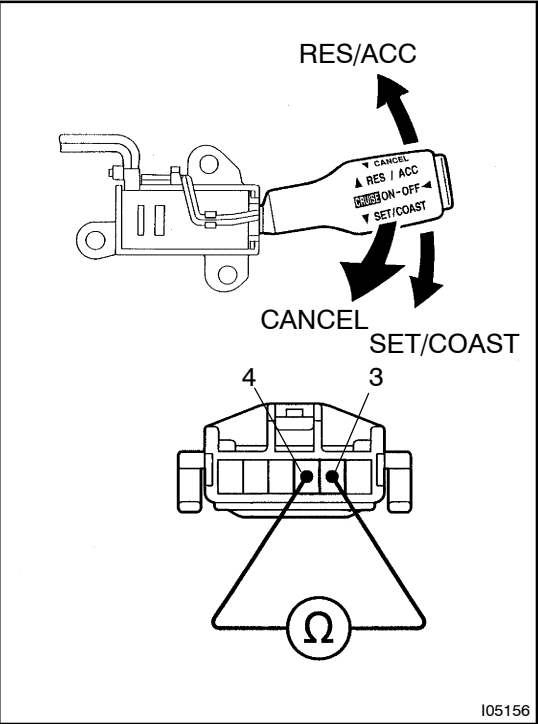
Switch position	Resistance (V)
Neutral	10 – 16 V
RES/ACC	2.4 – 3.4 V
SET/COAST	4.7 – 7.6 V
CANCEL	6.9 – 11.2 V

NG

Proceed to next circuit inspection shown in problem symptoms table (See page DI-546)

OK

4 Check control switch continuity.



PREPARATION:

- (a) Remove steering wheel center pad.
- (b) Disconnect the control switch connector.

CHECK:

Measure resistance between terminals 4 and 3 of control switch connector when control switch is operated.

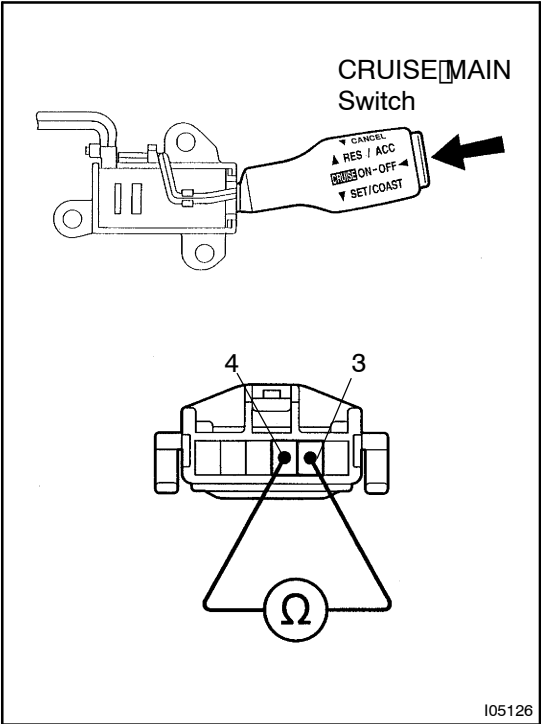
Switch position	Resistance (Ω)
Neutral	∞ (No continuity)
RES/ACC	220 – 260
SET/COAST	600 – 660
CANCEL	1,500 – 1,600

NG

Replace control switch.

OK

5 Check main switch continuity.



PREPARATION:

- (a) Remove steering wheel center pad. (See page SR-12)
- (b) Disconnect the control switch connector.

CHECK:

Check continuity between terminals 4 and 5 of control switch connector when main switch is held ON and OFF.

OK:

Switch position	Tester connection	Specified condition
OFF	-	No continuity
Hold ON	4 - 5	Continuity

NG

Replace control switch.

OK

6 Check harness and connector between ECU and cruise control switch, cruise control switch and body ground (See page IN-29).

NG

Repair or replace harness or connector.

OK

7 Check cruise control indicator light. (See combination meter)

NG

Replace combination meter.

OK

Check and replace ECU (See page IN-29).