

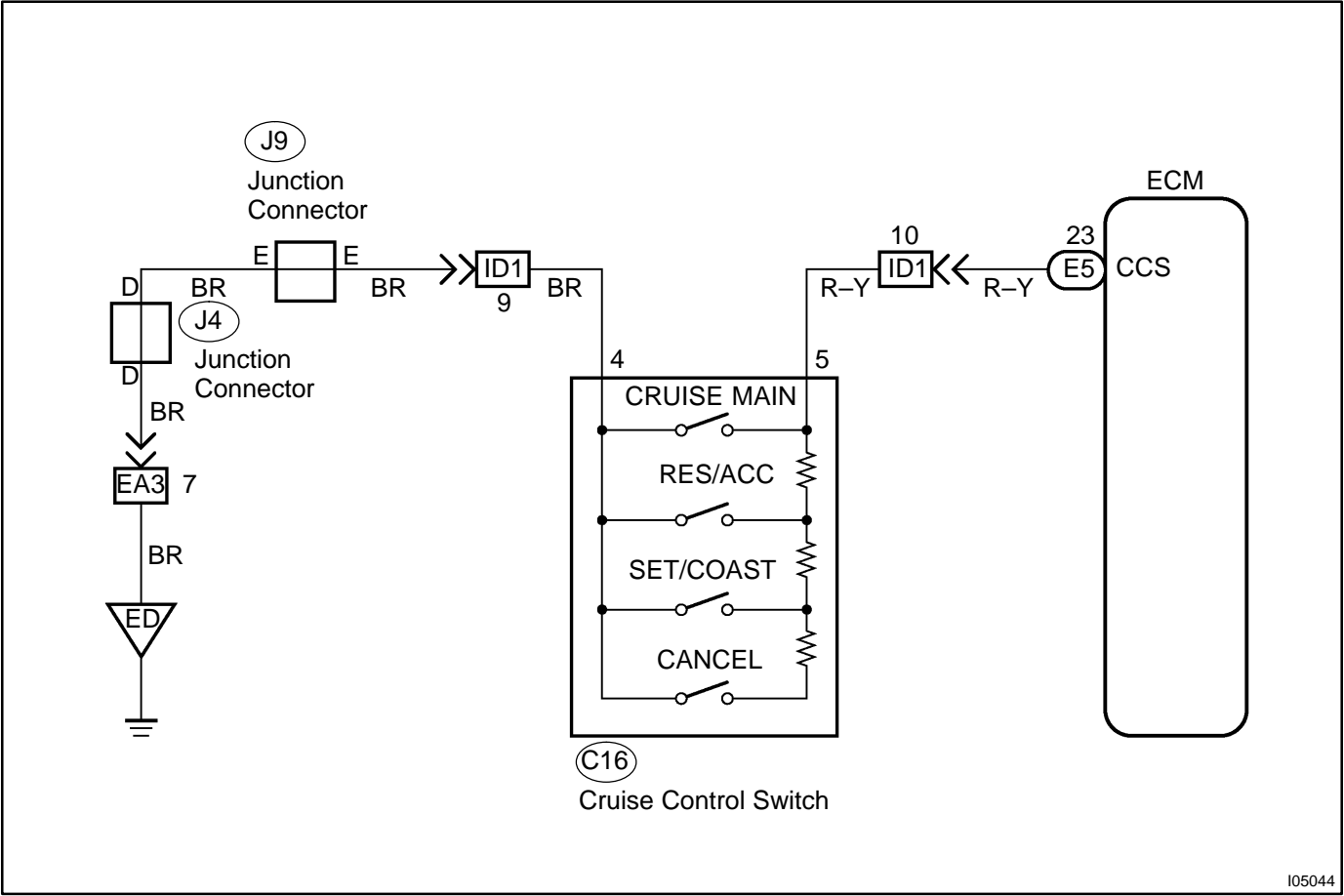
<b>DTC</b>	<b>P1566/54</b>	<b>Input signal circuit abnormal</b>
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# CIRCUIT DESCRIPTION

This circuit carries the SET/COAST, RESUME/ACCEL and CANCEL signals (each voltage) to the ECM (See page [DI-866](#)).

DTC No.	Detection Item	Trouble Area
54	<ul style="list-style-type: none"> <li>Stop light switch input signal abnormal.</li> <li>Cruise control switch input signal abnormal.</li> </ul>	<ul style="list-style-type: none"> <li>ECM</li> </ul>

# WIRING DIAGRAM

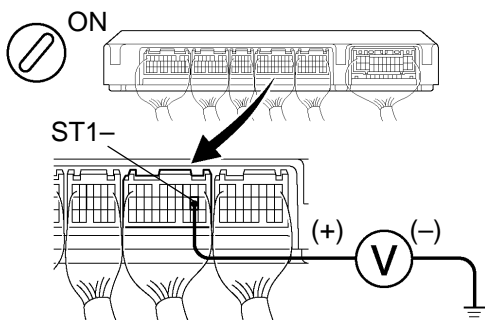


I05044

## INSPECTION PROCEDURE

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

## 2JZ-GE engine:



I04212

**PREPARATION:**

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

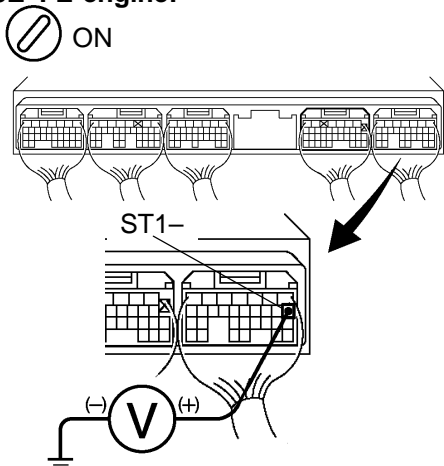
**CHECK:**

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

**OK:**

Released	Below 1 V
Depressed	10 – 14 V

## 3UZ-FE engine:



I21631

OK

Proceed to next circuit inspection shown in problem symptoms table (See page [DI-864](#)).

NG

- 2 Check for open in harness and connectors between terminal ST1- of ECM and stop light switch (See page [IN-32](#)).

NG

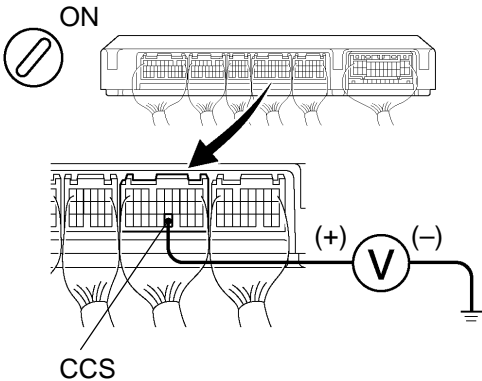
Repair or replace harness or connector.

OK

3

**Check voltage between terminals CCS of ECM connector and body ground.**

**2JZ-GE engine:**



I04211

**PREPARATION:**

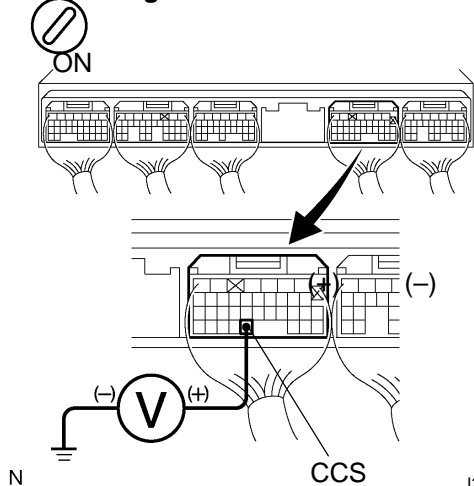
- (a) Remove the ECM with connector still connected.
- (b) Turn ignition switch ON.

**CHECK:**

Measure voltage between terminals CCS of ECM 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 – 3.8 V
SET/COAST	4.7 – 6.9 V
CANCEL	6.9 – 9.8 V

**3UZ-FE engine:**

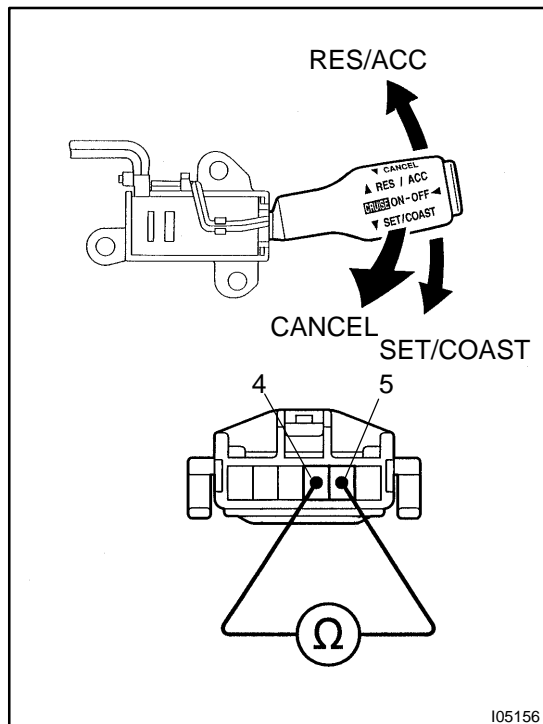


I21632

**NG**

**Proceed to next circuit inspection shown in problem symptoms table (See page [DI-864](#))**

**OK**

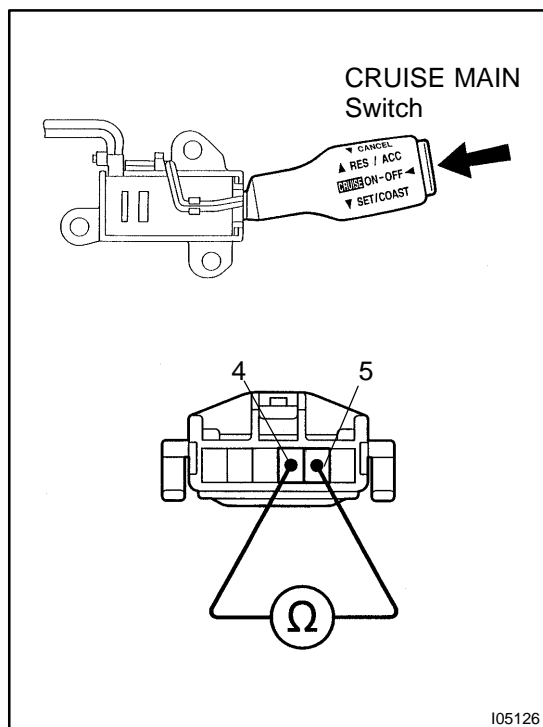
**4 Check control switch continuity.****PREPARATION:**

- (a) Remove steering wheel pad (See page [SR-11](#)).
- (b) Disconnect the control switch connector.

**CHECK:**

Measure resistance between terminals 4 and 5 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 pad (See page [SR-11](#)).
- (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 ECM and cruise control switch, cruise control switch and body ground (See page [IN-32](#)).

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 ECM (See page [IN-32](#)).