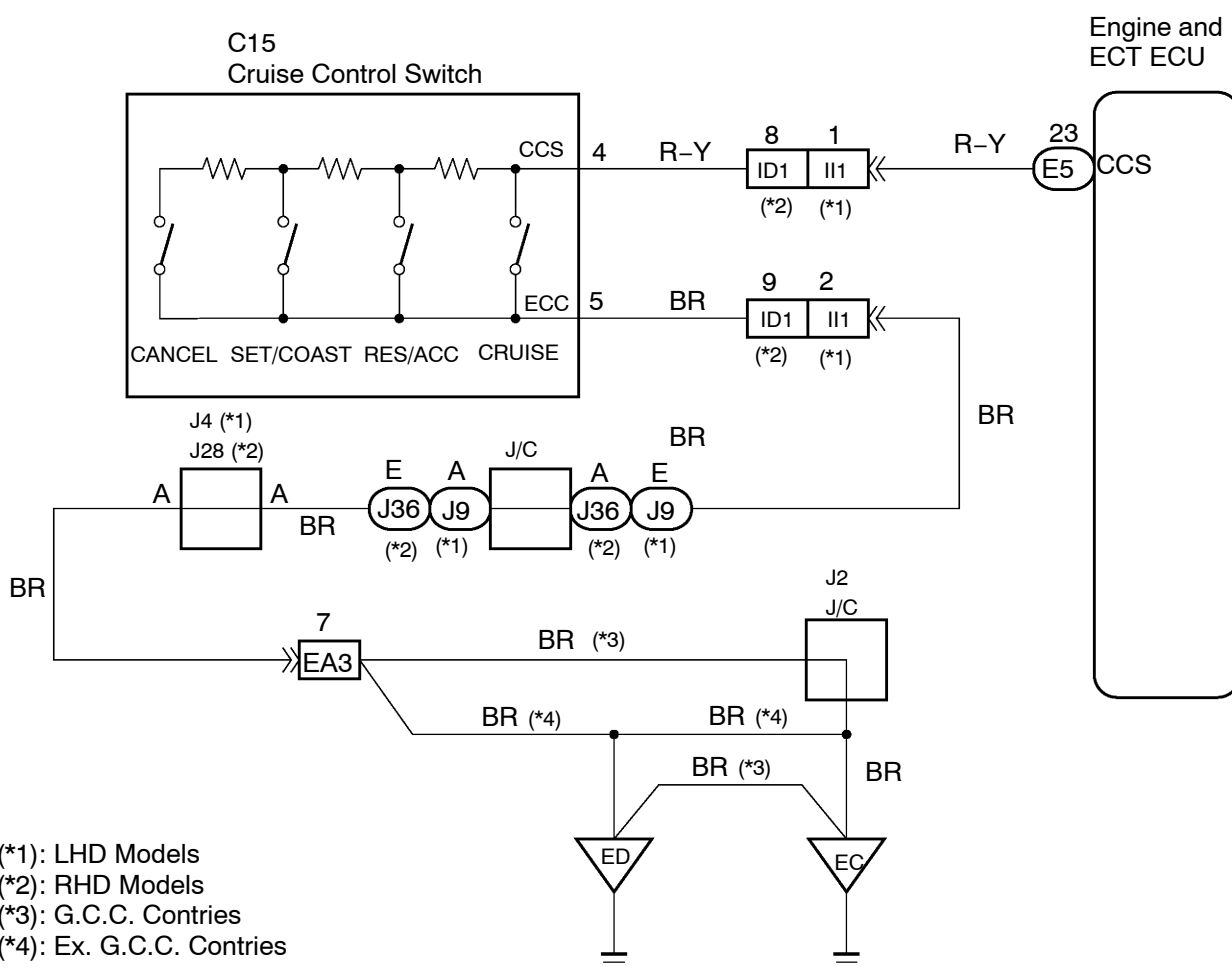DI86A–01

Control switch circuit (Cruise control switch)

CIRCUIT DESCRIPTION

This circuit carries the SET/COAST, RESUME/ACCEL and CANCEL signals (each voltage) to the engine and ECT ECU.
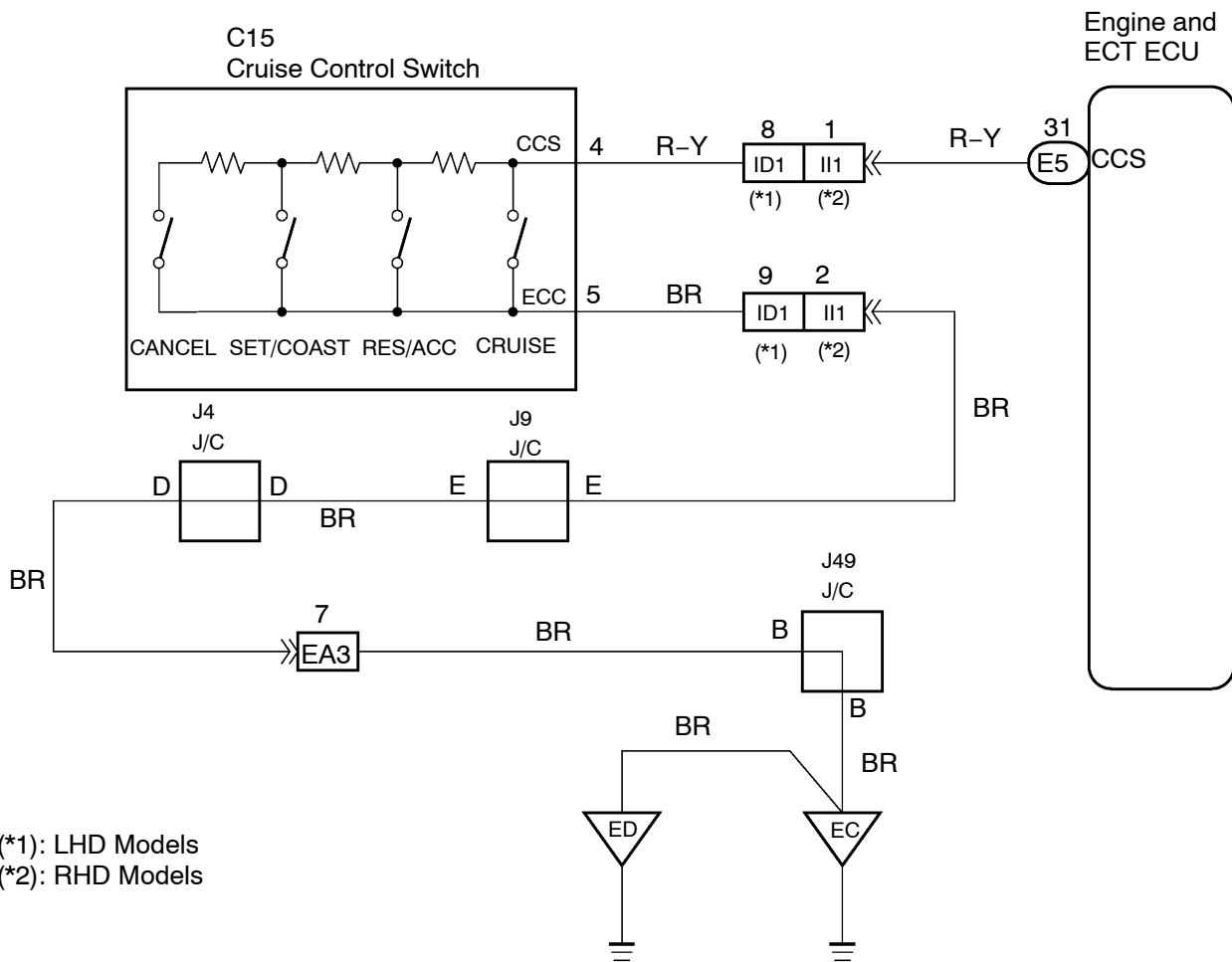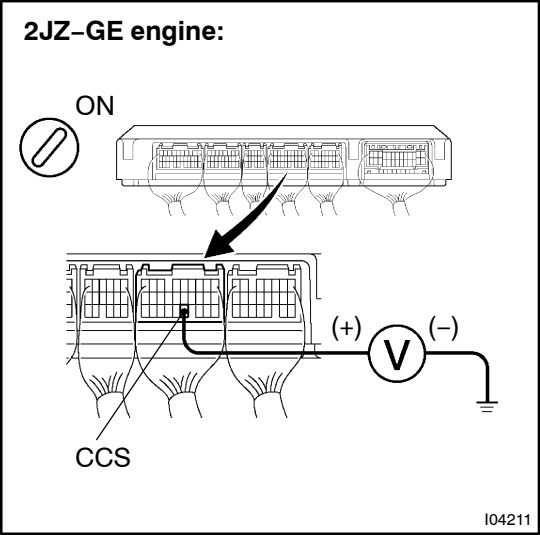
WIRING DIAGRAM

2JZ–GE engine:

(*1): LHD Models
(*2): RHD Models
(*3): G.C.C. Contries
(*4): Ex. G.C.C. Contries

I21084

3UZ–FE engine:

C15
Cruise Control Switch

CCS 4   R–Y   8 | 1   R–Y   31   CCS
                 ID1 | II1
                 (*1) | (*2)

ECC 5   BR   9 | 2
               ID1 | II1
               (*1) | (*2)

CANCEL SET/COAST RES/ACC CRUISE

BR

Engine and
ECT ECU

E5

J4
J/C
D   D   BR

J9
J/C
E   E

BR

J49
J/C

7
EA3   BR   B   B

BR

BR

ED   EC

(*1): LHD Models
(*2): RHD Models

C

I21085

INSPECTION PROCEDURE

1	Check voltage between terminals CCS of engine and ECT ECU connector and body ground.

2JZ–GE engine:
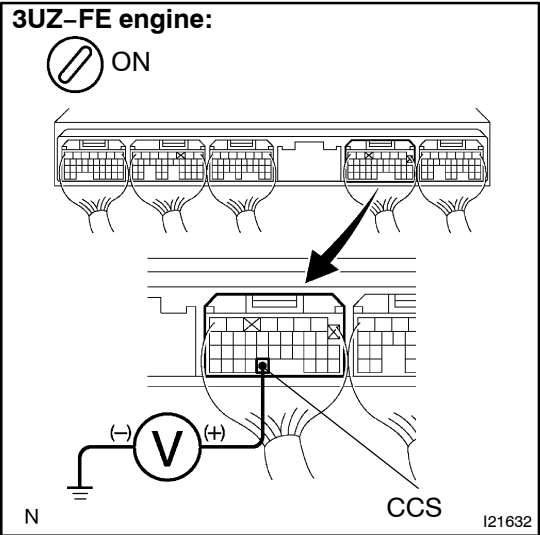
ON

(+) (−)

CCS

I04211

PREPARATION:
(a) Remove the engine and ECT ECU with connector still connected.
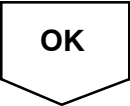(b) Turn ignition switch ON.

CHECK:
Measure voltage between terminals CCS of Engine and ECT ECU connector and body ground, when each of the SET/COAST, RESUME/ACCEL and CANCEL is turned ON.
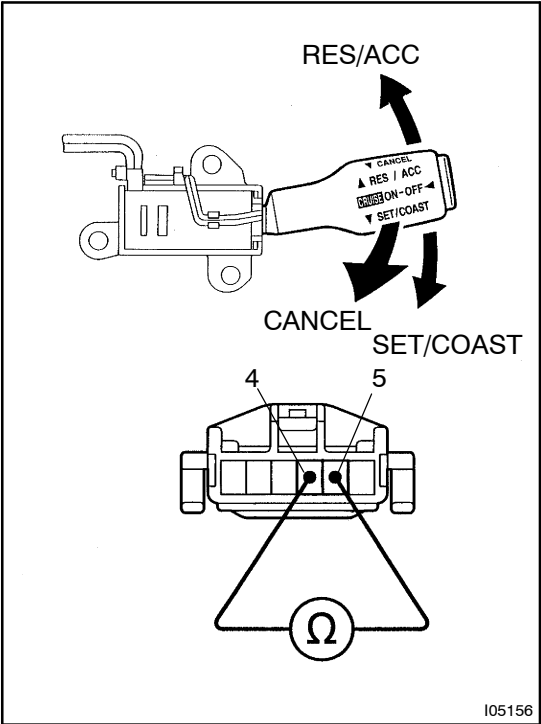
Switch position	Resistance (V)
Neutral	10 – 16 V
RES/ACC	0.6 – 2.3 V
SET/COAST	1.9 – 4.7 V
CANCEL	3.4 – 7.2 V

3UZ–FE engine:

ON

(−) (+)

N CCS

I21632

NG >	Proceed to next circuit inspection shown in problem symptoms table (See page DI–562)

OK

2	Check control switch continuity.

PREPARATION:
(a) Remove steering wheel pad (See page SR−9).
(b) Disconnect the control switch connector.

CHECK:
Measure resistance between terminals 4 and 5 of control switch connector when control switch is operated.
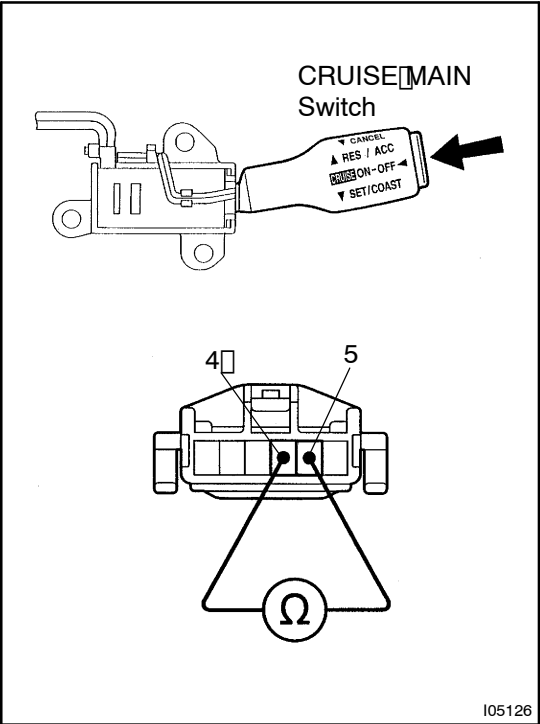
Switch position	Resistance (Ω)
Neutral	∞ (No continuity)
RES/ACC	60 – 70
SET/COAST	180 – 220
CANCEL	380 – 460

NG ▷ **Replace control switch.**

OK

3	Check main switch continuity.

CRUISE MAIN Switch

I05126

PREPARATION:
(a) Remove steering wheel center pad (See page SR–9).
(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

4	Check harness and connector between engine and ECT ECU and cruise control switch, cruise control switch and body ground (See page IN–30).

NG >	Repair or replace harness or connector.

OK

5	Check cruise control indicator light (See Pub. No. RM588E on page DI–584).

NG >	Replace combination meter.

OK

Check and replace engine and ECT ECU (See page IN–30).