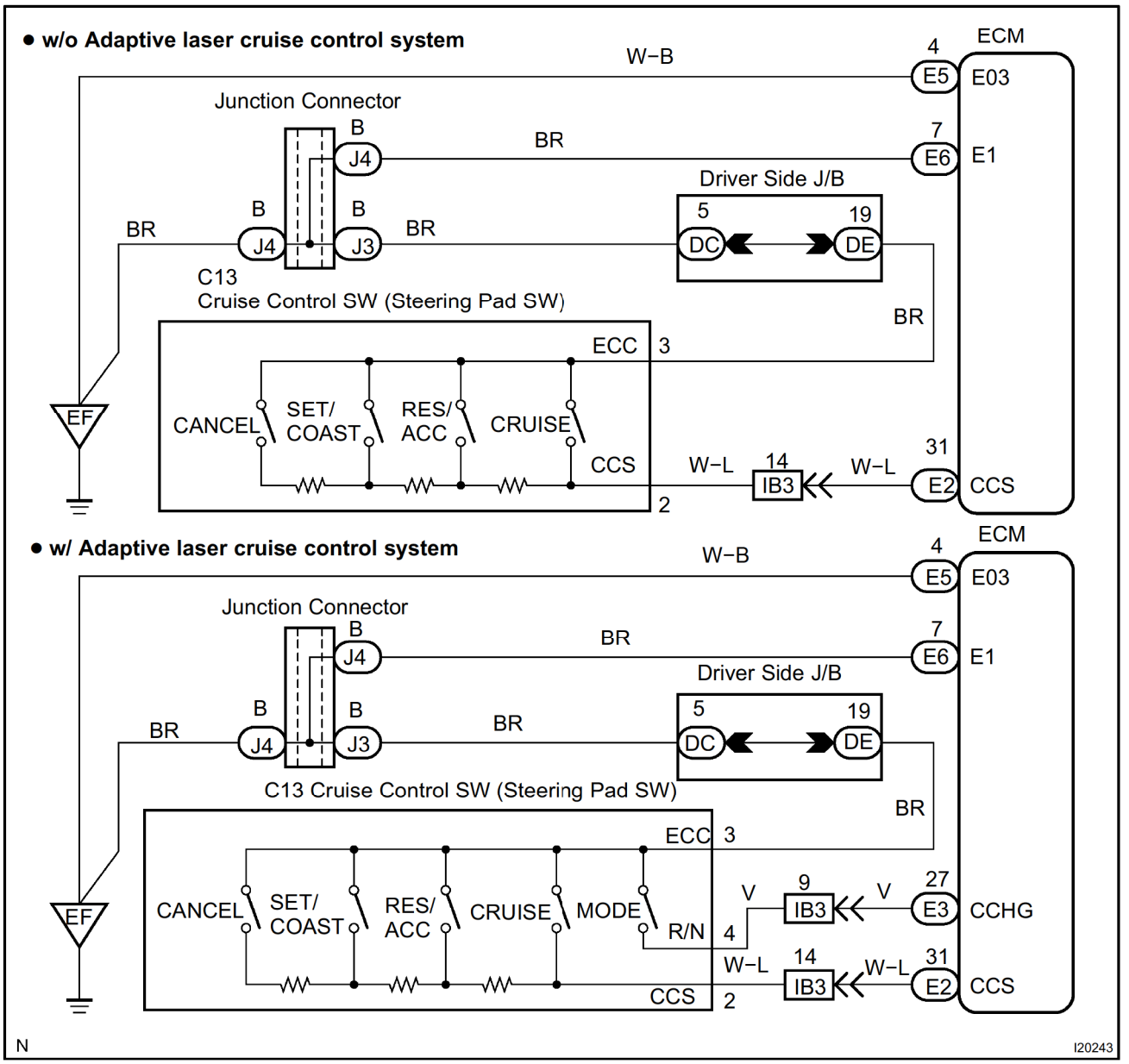
DI8X7-02

Cruise Control Switch Circuit

CIRCUIT DESCRIPTION

This circuit carries the SET/COAST, RESUME/ACCEL and CANCEL voltage signals to the ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:
In case of using the LEXUS hand–held tester, start the inspection from step 1 and in case of not using the LEXUS hand–held tester, start from step 2.

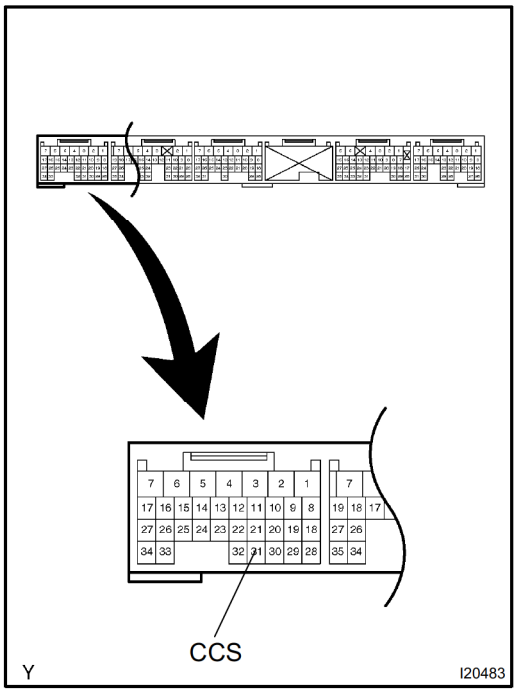
1	**Check cruise control switch using LEXUS hand–held tester.**

PREPARATION:
Connect the LEXUS hand–held tester to the DLC3.
CHECK:
Check the cruise control switch using DATA LIST.

OK → **Proceed to next circuit inspection shown on problem symptom table (See page DI–908).**

NG

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



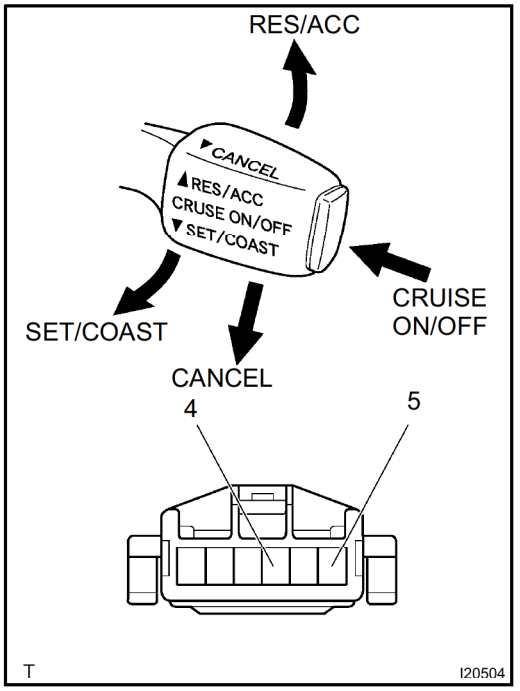
PREPARATION:
(a) Remove the ECM with the connector still connected.
(b) Turn the ignition switch ON.
CHECK:
Measure voltage between terminals CCS of ECM connector and body ground, when each of the SET/COAST, RESUME/ACCEL and CANCEL is turned ON.

Switch position	Voltage (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

NG → **Proceed to next circuit inspection shown in problem symptoms table (See page DI–908).**

OK

3	Check control switch continuity.



PREPARATION:

(a) Remove the steering wheel center pad.

(b) Disconnect the control switch connector.

CHECK:

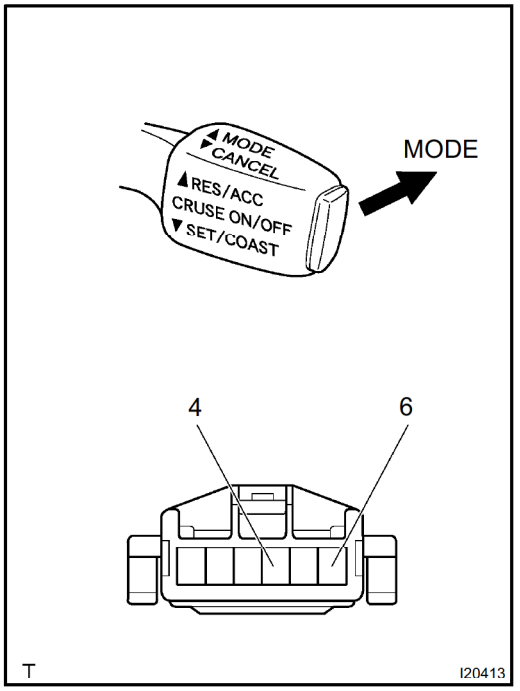
Measure resistance between terminals 4 and 5 of the control switch connector when the control switch is operated.

Switch position	Resistance (Ω)
Neutral	∞ (No continuity)
CRUISE	0 (Continuity)
RES/ACC	220 – 260
SET/COAST	600 – 660
CANCEL	1,500 – 1,600

NG → **Replace control switch.**

OK

4	Check MODE switch continuity.



PREPARATION:

(a) Remove steering wheel center pad. (See page SR−15)

(b) Disconnect the control switch connector.

CHECK:

Check continuity between terminals 4 and 6 of control switch connector when main switch is held ON and OFF.

Switch position	Tester connection	Specified condition
OFF	−	No continuity
MODE	4 − 6	Continuity

NG → **Replace control switch.**

OK

5	Check wire harness and connector between ECM and cruise control switch, cruise control switch and body ground (See page IN−34).

NG → **Repair or replace wire harness or connector.**

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI−908).