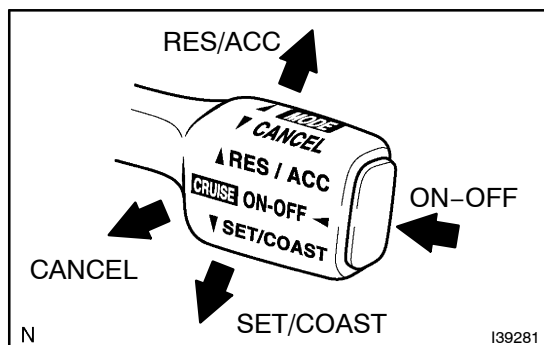


The diagram illustrates the electrical connections for the Cruise Control system. It includes the following components and wiring:

- Spiral Cable Sub-assy:** Contains terminals 2 (A), 4 (A), and 3 (A). It is connected to terminals C13, C13, and C13 respectively.
- Driver Side J/B:** Contains terminals 11 (DE) and 5 (DC). It is connected to terminal C13 from the Spiral Cable Sub-assy and terminal 3 (A) from the Spiral Cable Sub-assy.
- Cruise Control Main Switch:** Contains terminals ECC, MODE, R/N, CRUISE MAIN, RES/ACC, SET/COAST, CANCEL, and CCS. It is connected to terminal 2 (A) from the Spiral Cable Sub-assy and terminal 3 (A) from the Spiral Cable Sub-assy.
- ECM:** Contains terminals 31 (E3) CCS and 20 (E4) CCHG. It is connected to terminal 13 (IH4) from the Driver Side J/B and terminal 5 (IH4) from the Driver Side J/B.
- Wiring:**
 - W-L (Wireless) connects terminal 13 (IH4) to terminal 31 (E3) CCS.
 - V (Voltage) connects terminal 5 (IH4) to terminal 20 (E4) CCHG.
 - BR (Brake) connects terminal 11 (DE) to terminal 5 (DC).
 - BR (Brake) connects terminal 5 (DC) to terminal B (J3) and B (J4).
 - EF (Engine Fuel) connects terminal B (J3) and B (J4) to ground.

INSPECTION PROCEDURE

1 READ VALUE ON INTELLIGENT TESTER II



- (a) Connect the intelligent tester II to the DLC3.
- (b) Turn the ignition switch to the ON position.
- (c) According to the display on the tester, read the "DATA LIST".

ECM:

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
Main SW M-CPU	Main SW signal (Main CPU) / ON or OFF	ON : Main SW ON (Pushed on) OFF: Main SW OFF (Pushed off)	-
Main SW S-CPU	Main SW signal (Sub CPU) / ON or OFF	ON : Main SW ON (Pushed on) OFF: Main SW OFF (Pushed off)	-
CANCEL Switch	CANCEL SW signal / ON or OFF	ON : CANCEL SW ON OFF : CANCEL SW OFF	-
SET/COAST Switch	SET/COAST SW signal / ON or OFF	ON : SET/COAST SW ON OFF : SET/COAST SW OFF	-
RES/ACC Switch	RES/ACC SW signal / ON or OFF	ON : RES/ACC SW ON OFF : RES/ACC OFF	-

OK: When cruise control main switch operation is performed the standard values will be above.

Result:

OK	A
NG (All items are defective.)	B
NG (One to Four items are defective.)	C

B

Go to step 2

C

REPLACE CRUISE CONTROL MAIN SWITCH ASSY (SEE PAGE 32-11)

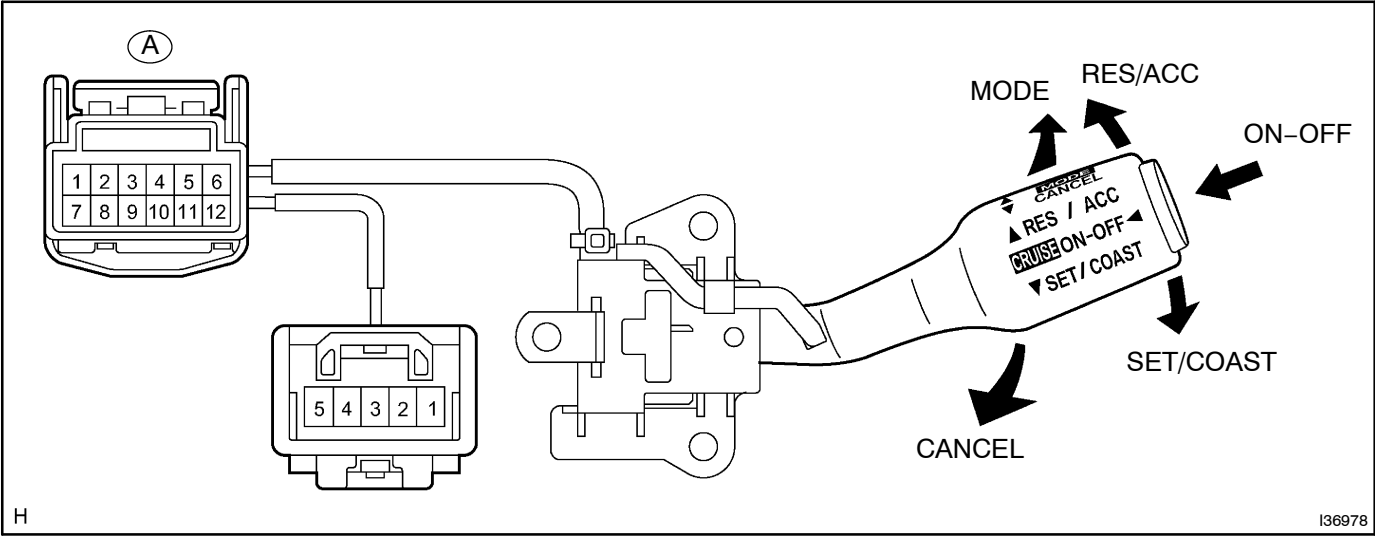
A

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-3638)

2

INSPECT CRUISE CONTROL MAIN SWITCH ASSY

(a) Disconnect the cruise control main switch connector.



(b) Measure the resistance according to the value(s) in the table below.

Standard:

Switch condition	Tester connection	Resistance(Ω)
Neutral	A-2 – A-3, A-3 – A-4	10 k Ω or higher
RES/ACC	A-2 – A-3	210 to 270
SET/COAST	A-2 – A-3	560 to 700
CANCEL	A-2 – A-3	1,380 to 1,700
Main Switch OFF	A-2 – A-3	10 k Ω or higher
Main Switch ON	A-2 – A-3	Below 1 Ω
MODE	A-3 – A-4	Below 1 Ω

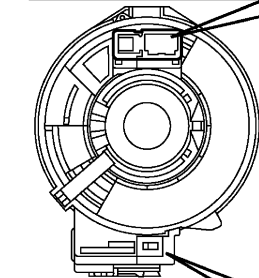
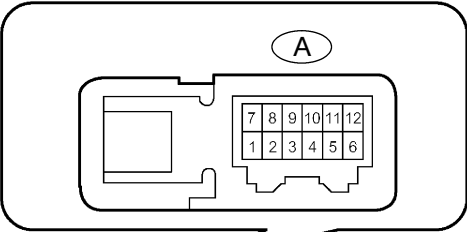
NG

REPLACE CRUISE CONTROL MAIN SWITCH ASSY[SEE[PAGE82-11]]

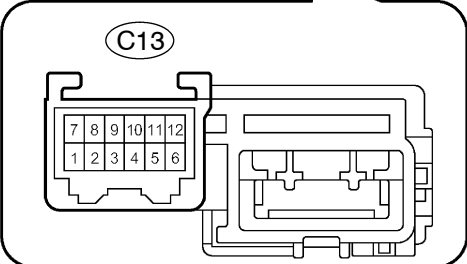
OK

3 INSPECT SPIRAL CABLE SUB-ASSY

Cruise Control Main Switch Side:



Vehicle Side:



H

136976

- (a) Disconnect the spiral cable sub-assy connector.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

Terminal No.	Specified value
A-2 - C13-2	Below 1 Ω
A-3 - C13-3	Below 1 Ω
A-4 - C13-4	Below 1 Ω

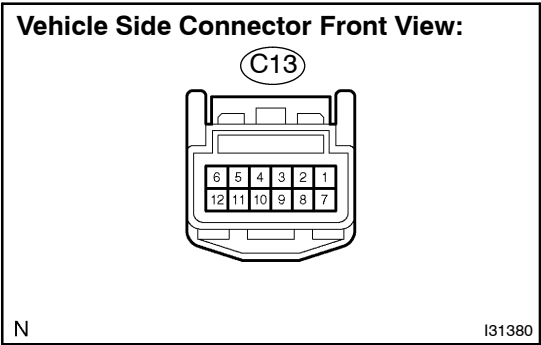
NG

REPLACE SPIRAL CABLE SUB-ASSY
(SEE PAGE 60-31)

OK

4

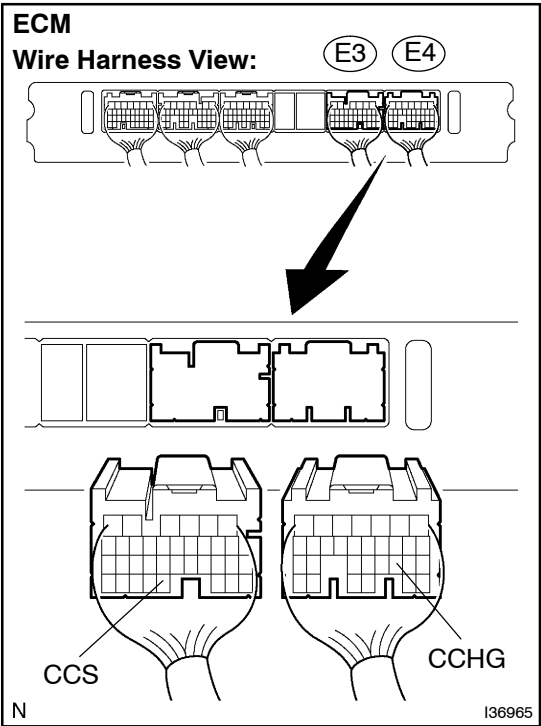
CHECK HARNESS AND CONNECTOR (SPIRAL CABLE SUB-ASSY – ECM)



(a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified value
C13-2 – E3-31 (CCS)	Always	Below 1 Ω
C13-4 – E4-20 (CCHG)	Always	Below 1 Ω
C13-2 – Body ground	Always	10 kΩ or higher
C13-4 – Body ground	Always	10 kΩ or higher



NG

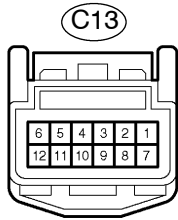
REPAIR OR
CONNECTOR

REPLACE HARNESS OR

OK

5. CHECK HARNESS AND CONNECTOR (SPIRAL CABLE SUB-ASSY - BODY GROUND)

Vehicle Side Connector Front View:



N

I31380

(a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Condition	Specified Value
C13-3 - Body Ground	Always	Below 1 Ω

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE ECM (SEE PAGE 10-21)