DI0F2-05

Electronically Controlled Transmission Communication Circuit

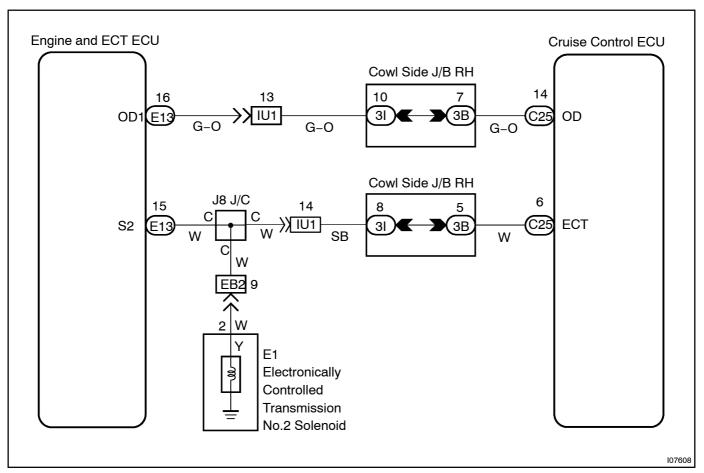
CIRCUIT DESCRIPTION

When driving uphill under cruise control, in order to reduce shifting due to ON-OFF overdrive operation and to provide smooth driving, when down shifting in the electronically controlled transmission occurs, a signal to prevent upshift until the end of the uphill slope is sent from the cruise control ECU to the electronically controlled transmission.

Terminal ECT of the cruise control ECU detects the shift change signal (output to electronically controlled transmission No. 2 solenoid) from the engine and ECT ECU.

If vehicle speeds down, also when terminal ECT of the cruise control ECU receives down shifting signal, it sends a signal from terminal OD to engine and ECT ECU to cut overdrive until the end of the uphill slope, and the gear shifts are reduced and gear shift points in the electronically controlled transmission are changed.

WIRING DIAGRAM



INSPECTION PROCEDURE

1∏

Check operation of overdrive.

PREPARATION:

Perform@he@est@drive@after@engine@varms@up.

CHECK:

Check[that[overdrive[ON]→[OFF[occurs[with[operation[of[OD]switch[ON-OFF.

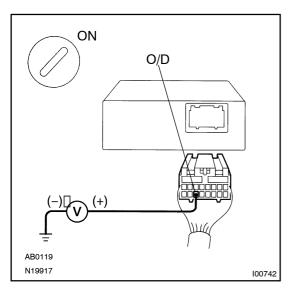


Check and repair electronically controlled transmission See page DI-4, DI-80.

OK

2

Check voltage between terminal OD of harness side connector of cruise control ECU and body ground.



PREPARATION:

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

CHECK:

Measure voltage between terminal OD of harness side connector of ECU and body ground.

OK:

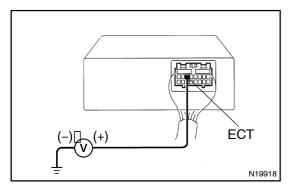
Voltage: 10 - 14 V

NG

Go to step 5.

OK

3 Check[voltage[between[terminal[ECT[of[cruise[control[ECU[connector[and[body ground[On[test[drive).



PREPARATION:

- (a) ☐ Connect ☐ the ☐ ECU ☐ connector.
- (b) ☐ Perform the test trive after engine warms up.

CHECK:

Check[voltage[between[terminal]ECT[bf]ECU[connector]and body[ground[when[DD]switch]]s[DN]and[DFF.

OK:

OD[switch[position	Voltage
ON	8 -[] 4[]V
OFF	Below[0.5[V



Proceed_to_next_circuit_inspection_shown_in problem_symptom_table_See_page_DI-682).

NG

4 Check[harness[and]connector[between]terminal[ECT]of[cruise]control[ECU]and electronically[controlled]transmission[solenoid[See]page]N-35).

NG_[]

Repair or replace harness or connector.

OK

5∏

CheckandreplacecruisecontroleCU.

Check[harness[and[connector[between[terminal[OD[of[cruise[control[ECU[and terminal[OD1]of[engine]and[ECT[ECU[(See[page[IN-35)].

NG□

Repair or replace harness or connector.

OK

Check[and[replace[cruise[control[ECU[See page]N-35).