

Electronically Controlled Transaxle Communication Circuit

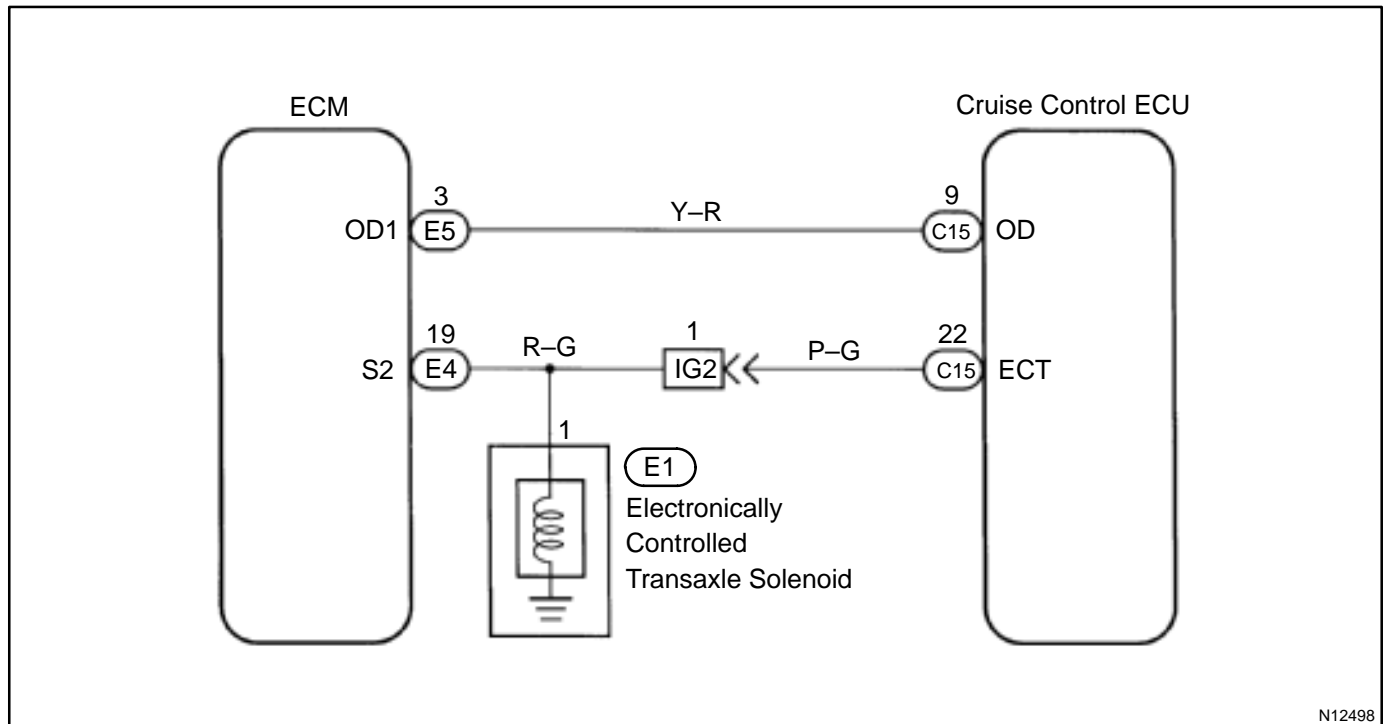
CIRCUIT DESCRIPTION

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 electronic controlled transaxle occurs, a signal to prevent upshift until the end of the uphill slope is sent from the cruise control ECU to the electronic controlled transaxle.

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

If vehicle speed down, also when terminal electronically controlled transaxle of the cruise control ECU receives down shifting signal, it sends a signal from terminal OD to OD1 to cut overdrive until the end of the uphill slope, and the gear shifts are reduced and gear shift points in the electronically controlled transaxle are changed.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check operation of overdrive.
---	-------------------------------

PREPARATION:

Test drive after engine warm up.

CHECK:

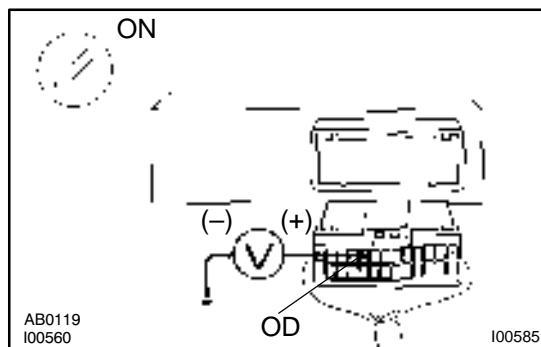
Check that overdrive ON ↔ OFF occurs with operation of O/D switch ON–OFF.

NG

Check and Repair Electronically controlled transmission (See page [DI-124](#)).

OK

2	Check voltage between terminal OD of harness side connector of ECU and body ground.
---	---

**PREPARATION:**

Remove ECU with connector still connected.

CHECK:

- (a) Disconnect the ECU connector.
- (b) Turn ignition switch ON.
- (c) Measure voltage between terminal OD of harness side connector of ECU and body ground.

OK:

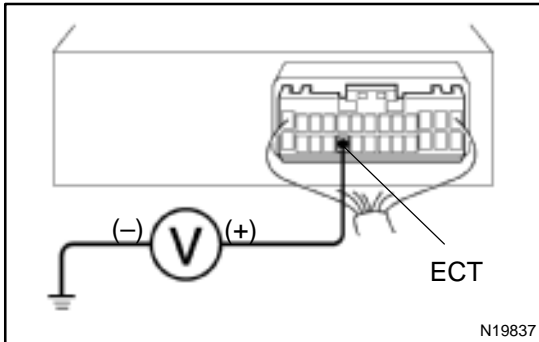
Voltage: 10 – 14 V

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 ECU connector.
(b) Test drive after engine warm up.

CHECK:

Check voltage between terminal ECT of cruise control ECU connector and body ground when OD switch is ON and OFF.

OK:

OD switch position	Voltage
ON	8 – 14 V
OFF	Below 0.5 V

OK

Proceed to next circuit inspection shown on matrix chart (See page [DI-308](#)).

NG

- 4 Check for open and short in harness and connector between terminal ECT of cruise control ECU and electronically controlled transmission solenoid (See page [IN-27](#)).**

NG

Repair or replace harness or connector.

OK

Check and replace cruise control ECU.

- 5 Check for open and short in harness and connector between terminal OD of ECU and terminal OD1 of ECM (See page [IN-27](#)).**

NG

Repair or replace harness or connector.

OK

Check and replace ECM (See page [IN-27](#)).