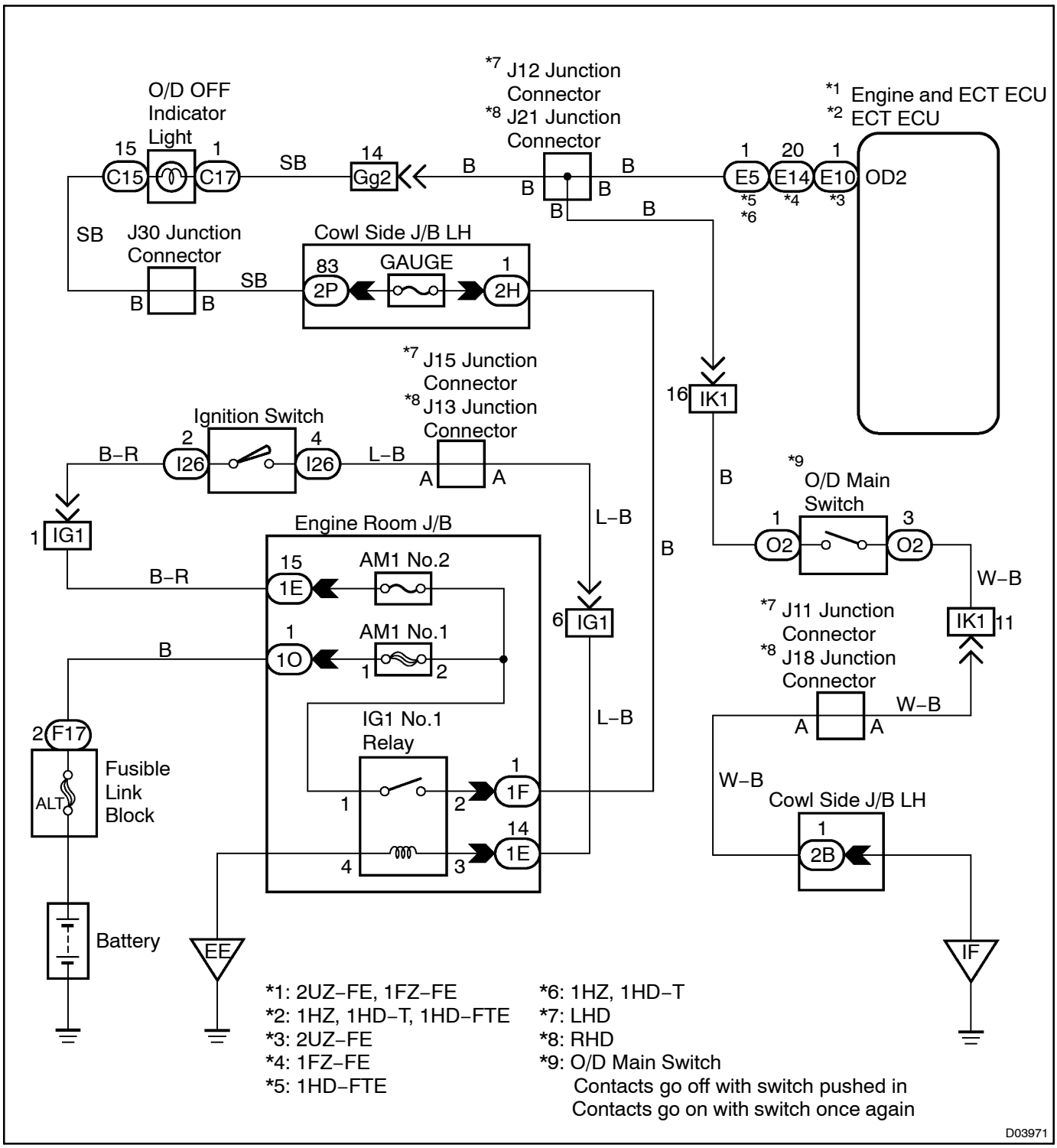
DI3RE–01

O/D Main Switch & O/D OFF Indicator Light Circuit

CIRCUIT DESCRIPTION

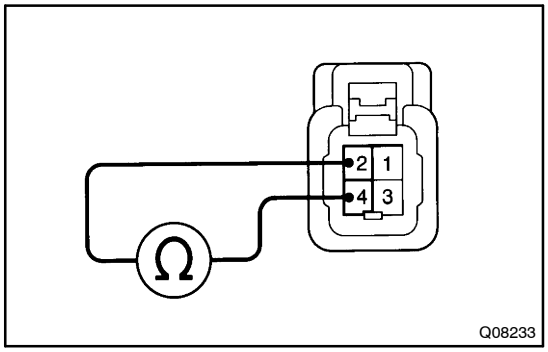
The O/D main switch contacts go open when the switch is pushed in and go closed when it is pushed out. In O/D main switch at OFF position, the O/D OFF indicator light lights up, and the Engine and ECT ECU or ECT ECU prohibits shifting overdrive.

WIRING DIAGRAM



INSPECTION PROCEDURE
O/D OFF indicator light does not light up

1	Check O/D main switch.



PREPARATION:
Disconnect the O/D main switch connector.
CHECK:
Check continuity between terminals 2 and 4 of O/D main switch connector.
OK:

O/D main switch	Specified condition
ON	No continuity
OFF	Continuity

NG → Replace the O/D main switch.

OK

2	Check and replace combination meter (See page BE–2).

NG → Replace the combination meter.

OK

3	**Check O/D OFF CUT SW2 signal.**

When using hand–held tester

PREPARATION:

(a) Connect a hand–held tester to the DLC3.

(b) Turn the ignition switch ON and hand–held tester main switch ON.

CHECK:

Read the O/D OFF CUT SW2 signal on the hand–held tester.

OK:

O/D main switch condition	O/D OFF CUT SW2 signal
O/D ON (Pushed in)	OFF
O/D OFF (Pushed once again)	ON

When not using hand–held tester

PREPARATION:

Turn the ignition switch ON.

CHECK:

Check voltage between terminal OD2 of Engine and ECT ECU or ECT ECU and body ground.

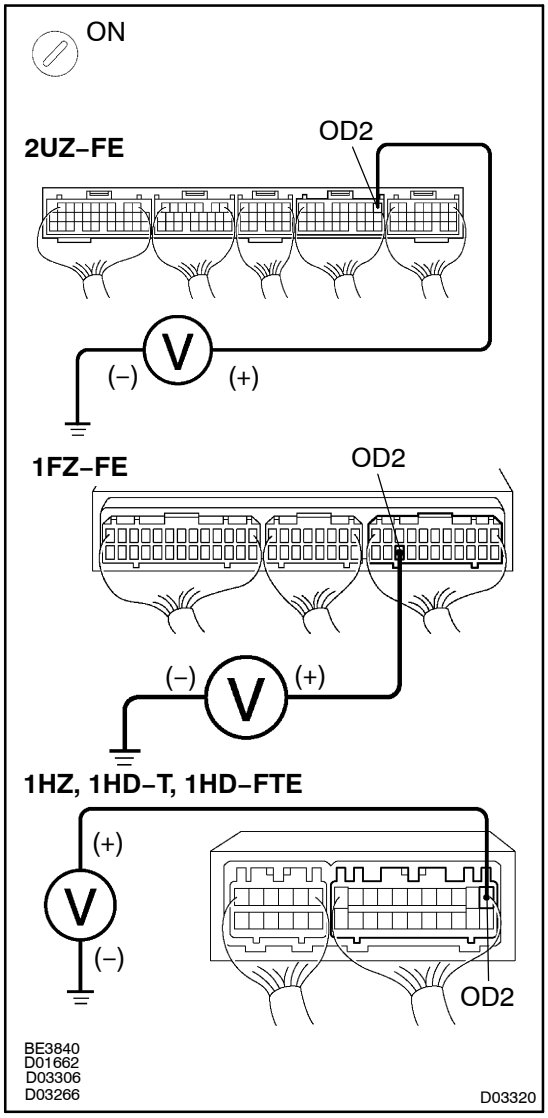
OK:

2UZ–FE, 1FZ–FE:

O/D main switch condition	Voltage
O/D ON (Pushed in)	9.0 – 14 V
O/D OFF (Pushed once again)	Below 1.5 V

1HZ, 1HD–T, 1HD–FTE:

O/D main switch condition	Voltage
O/D ON (Pushed in)	9.0 – 14 V
O/D OFF (Pushed once again)	Below 1.5 V



NG

OK → **Proceed to next circuit inspection shown in symptom problems table (See page DI–108).**

4	Check harness and connector between O/D OFF indicator light and Engine and ECT ECU or ECT ECU (See page IN–35).

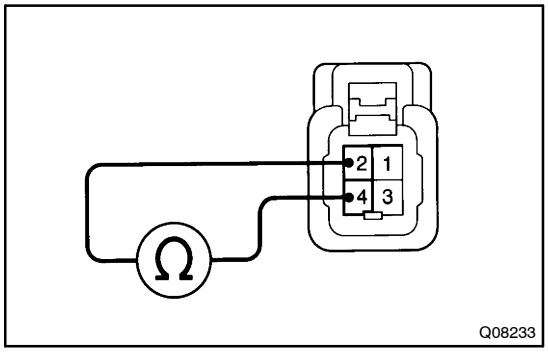
NG → Repair or replace the harness or connector.

OK

Check and replace the Engine and ECT ECU or ECT ECU (See page IN–35).

INSPECTION PROCEDURE
O/D OFF indicator light remains ON

1	Check O/D main switch.



PREPARATION:
Disconnect the O/D main switch connector.
CHECK:
Check continuity between terminals 2 and 4 of O/D main switch connector.
OK:

O/D main switch	Specified condition
ON	No continuity
OFF	Continuity

NG → Replace the O/D main switch.

OK

2	Check harness and connector between O/D OFF indicator light and O/D main switch, O/D OFF indicator light and Engine and ECT ECU or ECT ECU (See page IN–35).

NG → Repair or replace the harness or connector.

OK

Check and replace the Engine and ECT ECU or ECT ECU (See page IN–35).