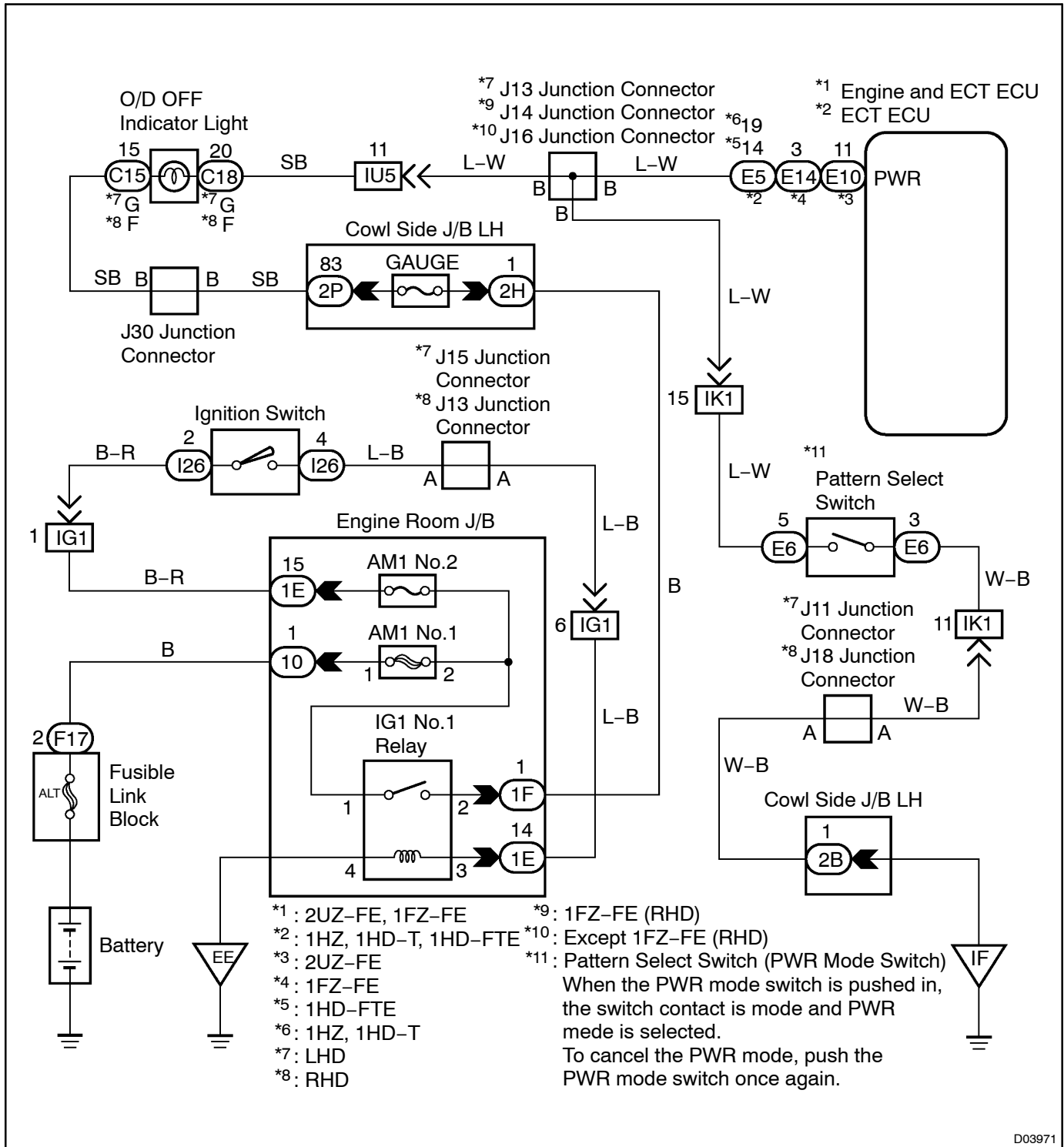DI3RG–01

Pattern Select Switch Circuit (PWR Mode Switch)

CIRCUIT DESCRIPTION

The Engine and ECT ECU (2UZ–FE, 1FZ–FE) or ECT ECU (1HZ, 1HD–T, 1HD–FTE) memory contains the shift programs for the NORMAL and POWER patterns, 2 range, L range and the lock–up patterns. Following the programs corresponding to the signals from the pattern select switch, the neutral start and other various sensors, the Engine and ECT ECU (2UZ–FE, 1FZ–FE) or ECT ECU (1HZ, 1HD–T, 1HD–FTE) switches the solenoid valves ON and OFF, and controls the transmission gear change and the lock–up clutch operation.

WIRING DIAGRAM

*1 : 2UZ–FE, 1FZ–FE
*2 : 1HZ, 1HD–T, 1HD–FTE
*3 : 2UZ–FE
*4 : 1FZ–FE
*5 : 1HD–FTE
*6 : 1HZ, 1HD–T
*7 : LHD
*8 : RHD

*9 : 1FZ–FE (RHD)
*10 : Except 1FZ–FE (RHD)
*11 : Pattern Select Switch (PWR Mode Switch)
When the PWR mode switch is pushed in,
the switch contact is mode and PWR
mede is selected.
To cancel the PWR mode, push the
PWR mode switch once again.

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INSPECTION PROCEDURE

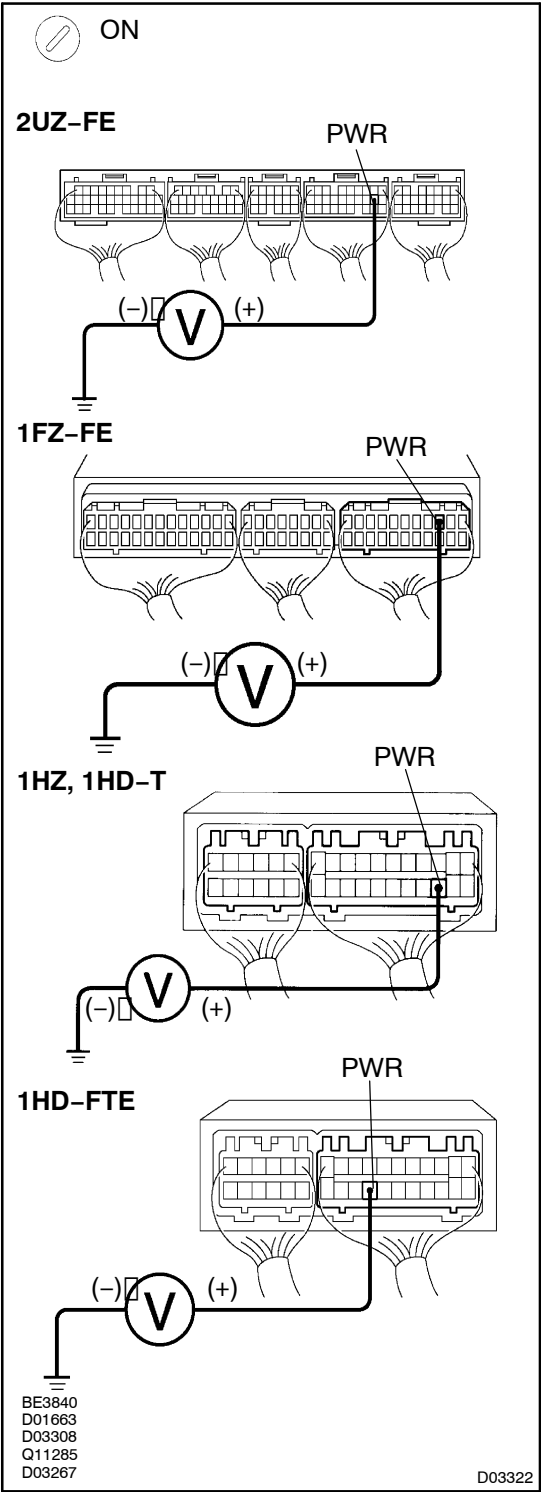| 1	Check PATTERN SEL SW signal.

When using hand−held tester
PREPARATION:
(a) Remove the fuse box cover.
(b) Connect a hand−held tester to the DLC3.
(c) Turn the ignition switch ON and hand−held tester main switch ON.
CHECK:
Read the PATTERN SEL SW signal on the hand−held tester.
OK:

Pattern select switch	PATTERN SEL SW signal
PWR	ON
NORM	OFF

When not using hand-held tester

PREPARATION:
Turn the ignition switch ON.

CHECK:
Measure voltage between terminal PWR of Engine and ECT ECU or ECT ECU and body ground when the pattern select switch set to the PWR (POWER) position and NORM (NORMAL) position.

OK:

2UZ – FE, 1FZ – FE:

Pattern select switch	Voltage
NORM	9.0 – 14 V
PWR	Below 1.5 V

1HZ, 1HD – T, 1HD – FTE:

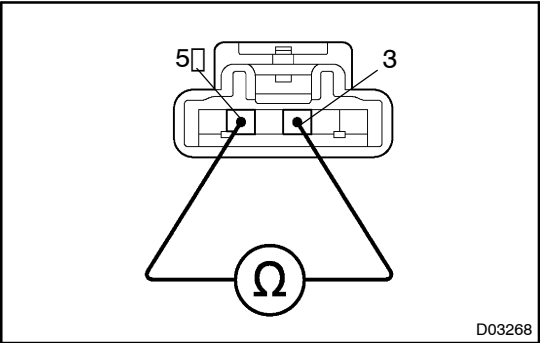| Pattern select switch	Voltage
NORM	9.0 – 14 V
PWR	Below 1.5 V

HINT:
The Engine and ECT ECU or ECT ECU uses the normal pattern signal if the PWR signal is not input.

OK	Proceed to next circuit inspection shown in problem symptoms table (See page DI–108).

NG

2	Check pattern select switch.

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PREPARATION:
Disconnect the pattern select switch connector.
CHECK:
Check continuity between terminals 3 and 5 of pattern select switch connector when the select switch is set to PWR and NORM positions.
OK:

Pattern select switch	Specified condition
PWR	Continuity
NORM	No continuity

NG	Replace the pattern select switch.

OK

3	Check harness and connector between battery and pattern select switch, pattern select switch 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).