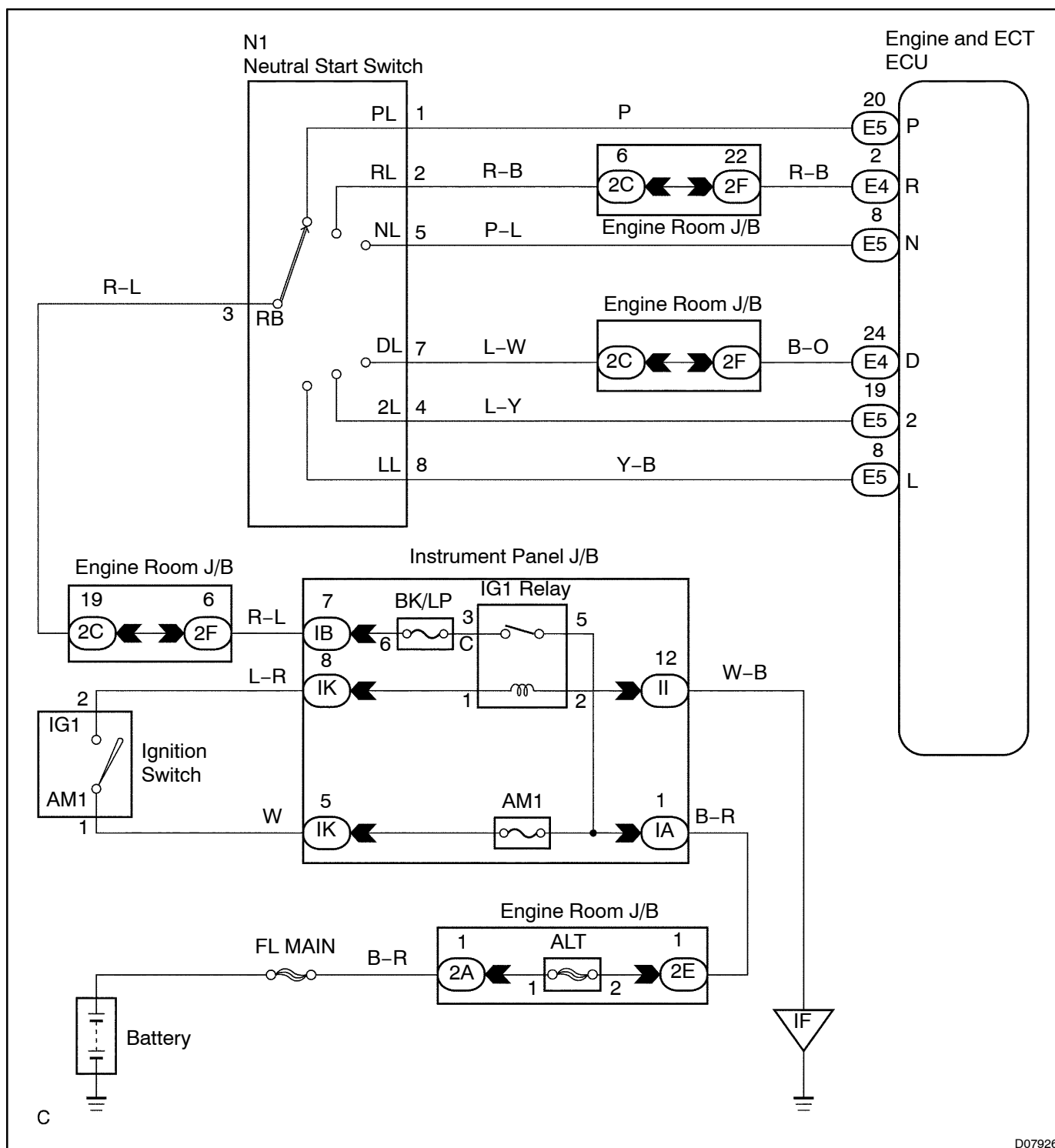


Neutral Start Switch Malfunction

CIRCUIT DESCRIPTION

The neutral start switch detects the shift lever position and sends signals to the engine ECU. The engine ECU receives signals (R, R, N, D 2 and L) from the neutral start switch.

WIRING DIAGRAM



D07926

INSPECTION PROCEDURE

1	Read PNP, REVERSE, 2ND DRIVE and LOW signals.
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When using hand-held tester:

PREPARATION:

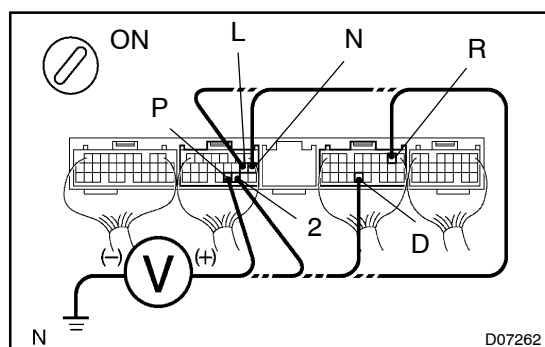
- (a) Remove the DLC3 cover.
- (b) Connect a hand-held tester to the DLC3.
- (c) Turn the ignition switch ON and hand-held tester main switch ON.

CHECK:

Shift lever into the P, R, N, D, 2 and L positions, and read the PNP, REVERSE, 2ND DRIVE and LOW signals on the hand-held tester.

OK:

Shift range	Signal
2	2ND OFF → ON
L	LOW OFF → ON
D	DRIVE OFF → ON
R	REVERSE OFF → ON
P, N	PNP OFF → ON



When not using hand-held tester:

PREPARATION:

Turn the ignition switch ON.

CHECK:

Measure voltage between terminals P, R, N, D, 2 and L of engine ECU and body ground when the shift lever is shifted to the following positions.

OK:

Shift range	Tester connection	Specified value
P	P - Body ground	Battery positive voltage
R	R - Body ground	*Battery positive voltage
N	N - Body ground	Battery positive voltage
D	D - Body ground	Battery positive voltage
2	2 - Body ground	Battery positive voltage
L	L - Body ground	Battery positive voltage

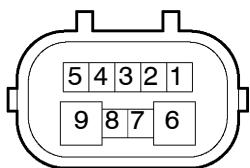
HINT:

*: The voltage will drop slightly due to lighting up of the back up light.

OK

Check and replace the engine ECU
(See page IN-20).

NG

2 Check neutral start switch.

N

D06561

PREPARATION:

- (a) Jack up the vehicle.
- (b) Remove the neutral start switch.

CHECK:

Check continuity between each terminal shown below when the shift lever is moved to each position.

Shift range	Terminal No. to continuity	
P	6 - 9	1 - 2
R	2 - 3	-
N	6 - 9	3 - 5
D	3 - 7	-
2	3 - 4	-
L	3 - 8	-

OK:

There is continuity.

NG**Replace the neutral start switch.****OK**

Repair or replace harness and connector between battery and neutral start switch, neutral start switch and engine ECU (See page IN-20).