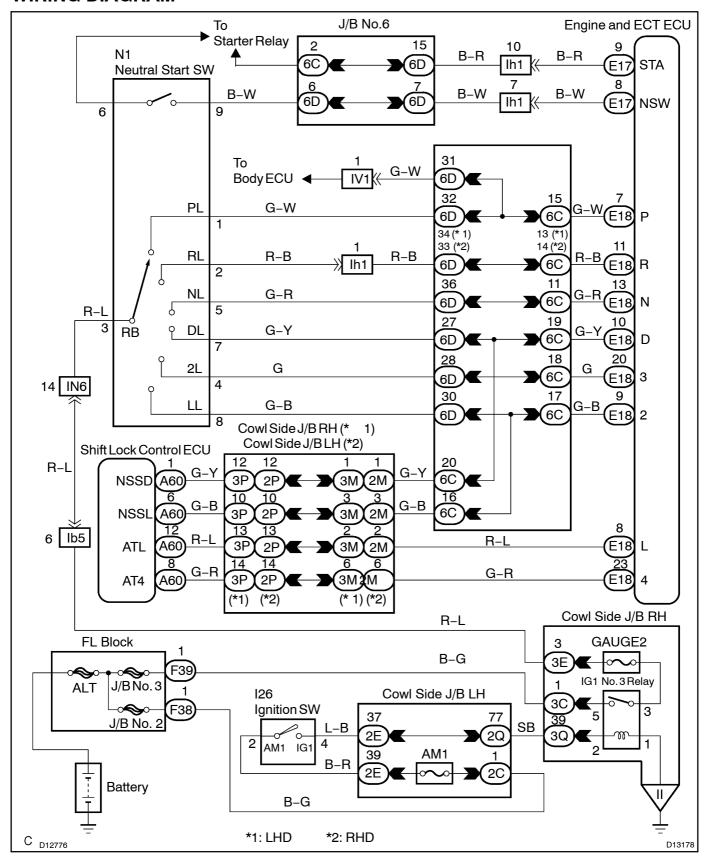
DIAVO-01

Neutral Start Switch Malfunction

CIRCUIT DESCRIPTION

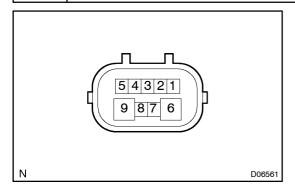
The neutral start switch detects the shift lever position and sends signals to the Engine & ECT ECU. The Engine & ECT ECU receives signals (NSW, P, R, N, D, 4, 3, 2 and L) from the neutral start switch.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check neutral start switch.



PREPARATION:

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

CHECK:

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

<u>OK:</u>

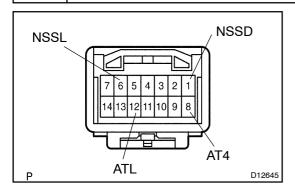
Shift range	Terminal No. to continuity	Terminal No. to continuity
Р	1 – 3	6 – 9
R	2 – 3	-
N	3 – 5	6 – 9
D, 4	3 – 7	-
3	3 – 4	-
2, L	3 – 8	_

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Replace neutral start switch (See page AT-7).

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2 Check transmission control switch.



PREPARATION:

- (a) Connect the neutral start switch connector.
- (b) Disconnect the shift lock control computer connector (transmission control switch).

CHECK:

Check continuity between each terminal of shift lock control computer (transmission control switch).

OK:

Shift range	Tester connection	Specified valve
D	1 - 8 (NSSD - AT4)	No continuity
4		Continuity
2	6 – 12 (NSSL – ATL)	No continuity
L		Continuity

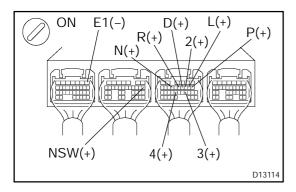
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Replace the transmission control switch (See page AT-21).

OK

3

Measure voltage between each terminals of NSW, P, R, N, D, 4, 3, 2, L and E1 of Engine and ECT ECU.



PREPARATION:

- (a) Connect the shift lock control computer connector (transmission control switch).
- (b) Turn the ignition switch ON.

CHECK:

Measure voltage between each terminals NSW, P, R, N, D, 4, 3, 2, L and E1 of Engine and ECT ECU when the shift lever is shifted to the following ranges.

OK:

Tester connection	Condition	Specified condition
NSW – Body ground	Shift lever range: P and N	Below 1 V
	Shift lever range: Except P and N	Battery voltage
P– Body ground	Shift lever range: P	Battery voltage
R – Body ground	Shift lever range: R	Battery voltage [*]
N – Body ground	Shift lever range: N	Battery voltage
D – Body ground	Shift lever range: D and 4	Battery voltage
4 – Body ground	Shift lever range: 4	Battery voltage
3 – Body ground	Shift lever range: 3	Battery voltage
2 – Body ground	Shift lever range: 2 and L	Battery voltage
L – Body ground	Shift lever range: L	Battery voltage

HINT:

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

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Repair or replace the harness or connector (See page IN-38).

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-119).