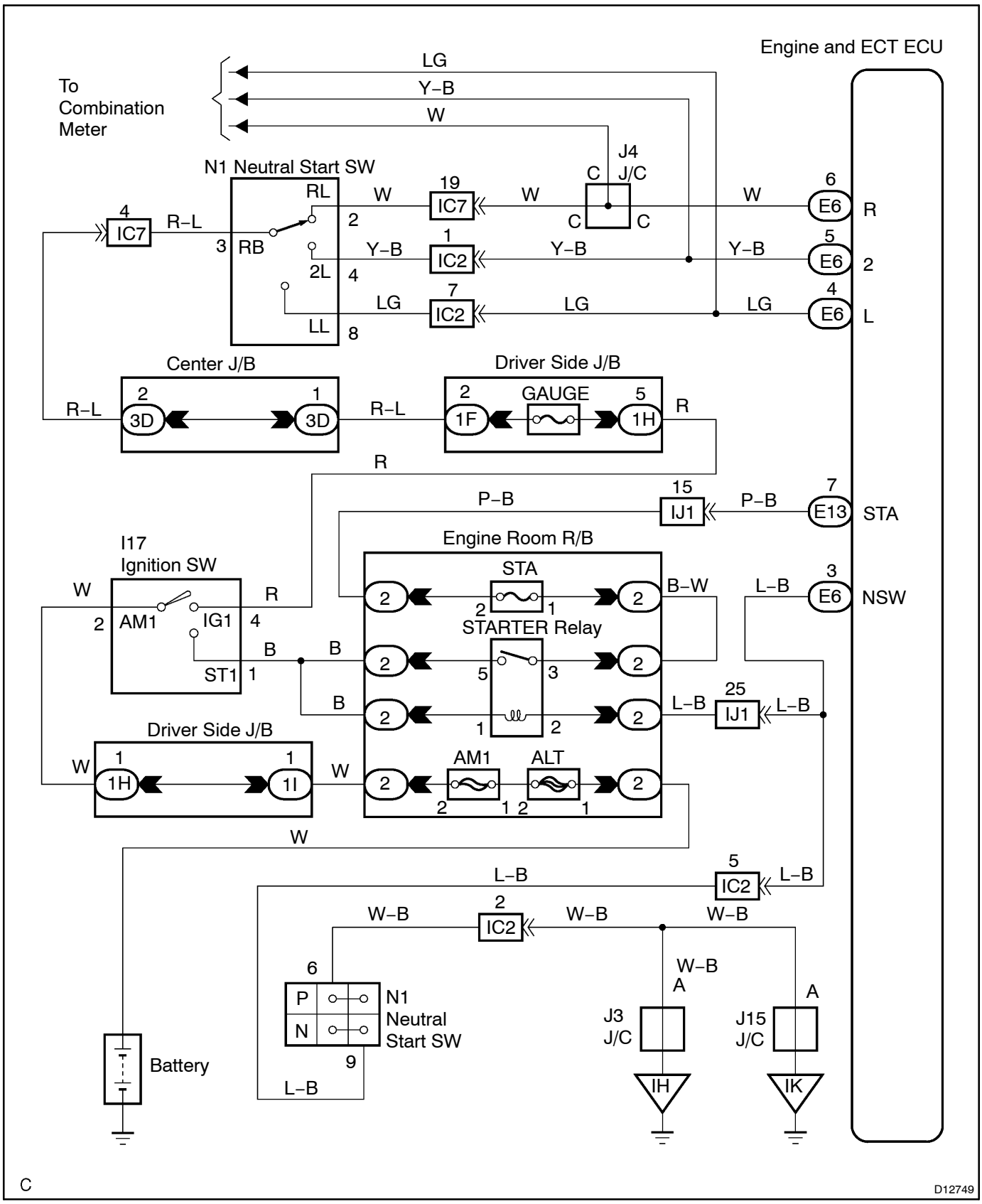
DIAGC–01

Neutral Start Switch Malfunction

CIRCUIT DESCRIPTION

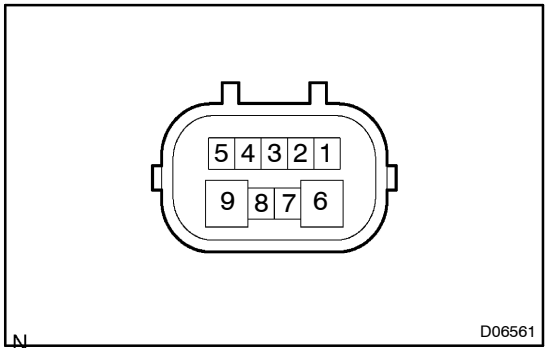
The neutral start switch detects the shift lever position and sends signals to the Engine & ECT ECU.
The Engine & ECT ECU receives signals (NSW, R, 2 and L) from the neutral start switch. When the signal is not sent to the Engine & ECT ECU from the neutral start switch, the Engine & ECT ECU judges that the shift lever is in D range.

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.

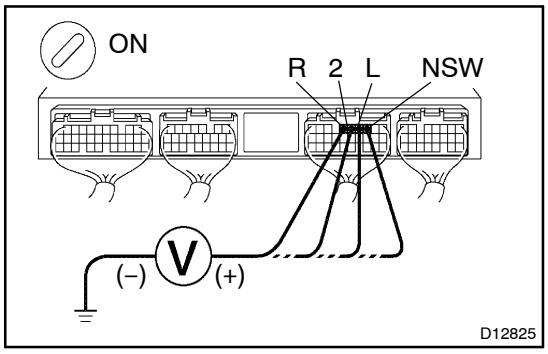
OK:

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

NG → **Replace neutral start switch.**

OK

2	**Read NSW, REVERSE, 2ND and LOW signals.**



PREPARATION:

(a) Disconnect the neutral start switch connector.

(b) Turn the ignition switch ON.

CHECK:

Measure voltage between terminals NSW, 2, L and R of the Engine & ECT ECU and body ground when the shift lever is shifted to the following ranges.

OK:

Range	NSW–Body ground	R–Body ground	2–Body ground	L–Body ground
P, N	0 V	0 V	0 V	0 V
R	9 – 14 V*	9 – 14 V*	0 V	0 V
D	9 – 14 V	0 V	0 V	0 V
2	9 – 14 V	0 V	9 – 14 V	0 V
L	9 – 14 V	0 V	0 V	9 – 14 V

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

NG → **Repair or replace the harness or connector (See page IN–26).**

OK →

Check and replace the Engine & ECT ECU (See page IN–26).