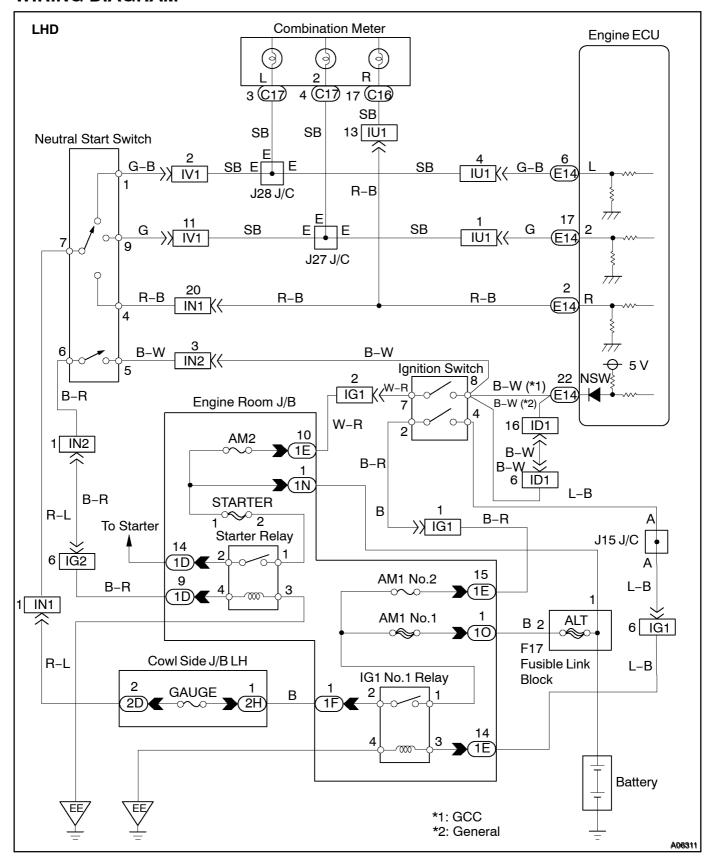
DI3OF-01

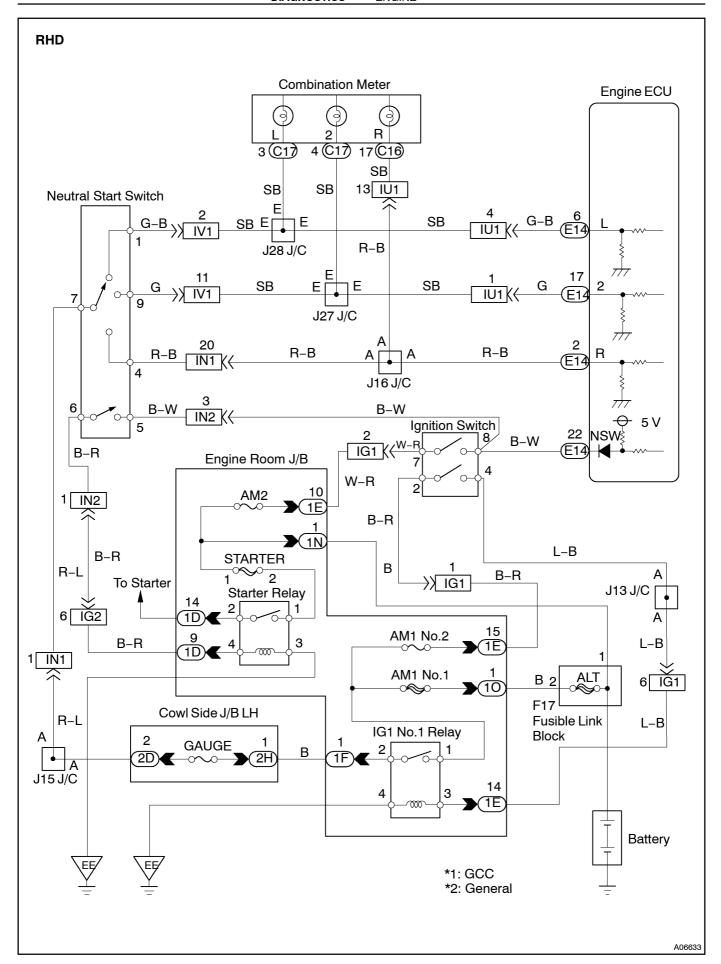
Neutral Start Switch Circuit

CIRCUIT DESCRIPTION

The neutral start switch goes on when the shift lever is in the N or P shift position. When it goes on terminal NSW of the engine ECU is grounded to body ground via the starter relay thus the terminal NSW voltage becomes 0V. When the shift lever is in the D, 2, L or R position, the neutral start switch goes off, so the voltage of engine ECU terminal NSW becomes battery voltage, the voltage of the engine ECU internal power source. If the shift lever is moved from the N position to the D position, this signal is used for air–fuel ratio correction and for idle speed control (estimated control), etc.

WIRING DIAGRAM





INSPECTION PROCEDURE

ON

NSW

(+)

2

(+)

1 Check R , 2, L and NSW signals.

When using hand-held tester:

PREPARATION:

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

CHECK:

Shift the shift lever to the P, R, N, 2, or L positions, and read the NSW, R, 2 and L signals on the hand-held tester.

OK:

Shift position	Signal	
Offilit position	Signal	
P, N	NSW OFF → ON	
R	R OFF → ON	
2	2 OFF → ON	
L	L OFF → ON	

When not using hand-held tester:

PREPARATION:

Turn the ignition switch ON.

CHECK:

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

<u>OK:</u>

A05858

Position[]	R-Body ground	NSW-Body ground	2–Body ground	L–Body ground
P,[N	0 V	Below 1[]/	Below 1 🗓 V	Below 1[]V
R	7.5 – 14 V *	7.5 – 14 V *	Below 1 V	Below 1 V
D□	Below 1[V]	7.5 – 14 V	Below 1 V	Below 1 V
2	Below 1[]V	7.5 – 14 V	7.5 – 14 V	Below 1[]V
L	Below 1[]V	7.5 – 14 V	Below 1[]V	7.5 – 14 V

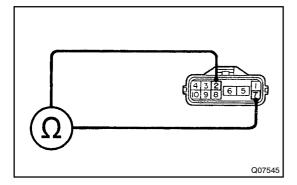
^{*:} The voltage will drop slightly due to lighting up of the back up light.



Proceed to next circuit inspection shown on problem symptoms table See page DI-21).

NG

2 | Check neutral start switch.



PREPARATION:

Remove[]he[]heutral[]start[]switch[]connector.

CHECK:

Check @ontinuity @etween @each @etween @each @etween @each @etween @each @ea

OK:

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

NG

Replace heutral start switch.

OK

3 Check[harness[and[connector[between[battery[and[heutral[start[switch,[heutral start[switch]and[engine[ECU[[See[page[]N-19]]]]

NG

Repair or replace harness and connector.

OK

Check and replace engine ECU (See page N-19)