DIAUI-01

# **CIRCUIT INSPECTION**

DTC P07	Transmission Range Sensor Circuit Mal- function (PRNDL Input)	
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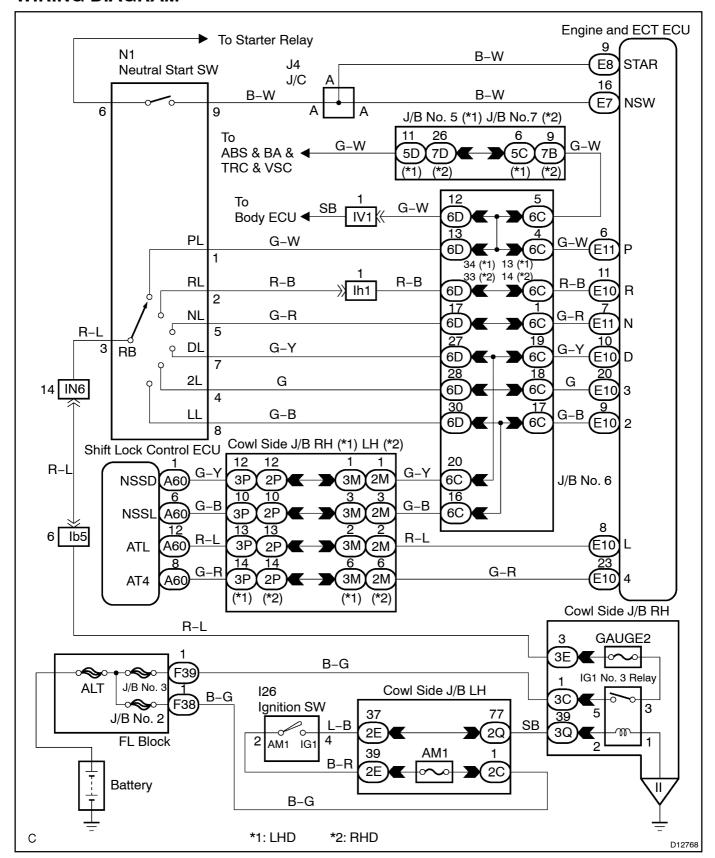
DTC	P0850	Park/Neutral Switch Input Circuit
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# **CIRCUIT DESCRIPTION**

The neutral start switch detects the shift lever range and sends signals to the Engine and ECT ECU.

DTC No.	DTC Detection Condition	Trouble Area	
P0705	(2–trip detection logic)  • All switches are OFF simultaneously for P, R, N, D, 3 and 2 ranges.  • 2 or more switches are ON simultaneously for P, R, N, (D 4), 3 and (2 L) ranges.	Short in neutral start switch circuit  Neutral start switch	
P0850	Neutral start switch remaines ON (P, N range) during driving under conditions (a) and (b) for 30 sec. (2–trip detection logic) (a) Vehicle speed: 70 km/h (44 mph) or more (b) Engine speed: 1,500 – 2,500 rpm	•Engine and ECT ECU	

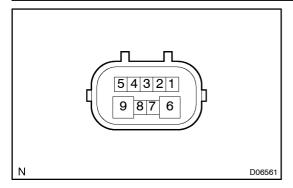
# WIRING DIAGRAM



# INSPECTION PROCEDURE

1□

Check neutral start switch.



#### **PREPARATION:**

(a) Jack up the vehicle.

(b) Disconnect he heutral start witch connector.

### **CHECK:**

Check@ontinuityDetween@achterminalShownDelowWhenthe shiftDeverDstmovedTo@achtange.

# OK:

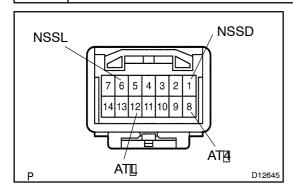
Shift[]ange	Terminal[No.[lo[continuity	Terminal[No.[to[continuity
Р	1 – 3	6 – [9
R	2 -[3	-
N	3 –[5	6 – [9
D,[4	3 –[7	-
3	3 –[4	-
2,[]_	3 -[8	-

NG

Replace neutral start switch (See page AT-7)

OK

# 2 | Check[transmission[control]switch.



# **PREPARATION:**

- (a) Connect he heutral start witch connector.
- (b) Disconnect he shift ock control computer connector (transmission on trol witch).

#### **CHECK:**

Check continuity between each terminal of shift ock control computer transmission control witch).

#### OK:

Shift[]ange	Tester[connection	Specified[valve
D	1 - 8[[NSSD -[AT4]	No[continuity
4		Continuity
2	6 - 12[[NSSL -[ATL)	No[continuity
L		Continuity

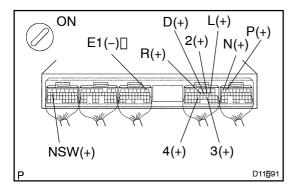
NG

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

OK

# 3□

# 



#### PREPARATION:

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

#### **CHECK:**

# OK:

Tester <u></u> connection	Condition	Specified <u>[</u> condition
	Shift[]ever[]ange:[]P[and[]N	Below 1[V
NSW -[Body[ground	Shift[]ever[]ange:[Except[P[and[]N	Battery <u></u> ]voltage
P-Bodyground	Shift_ever_ange:_P	Battery <u></u> ]voltage
R -[Body[ground	Shift_ever_ange:_R	Battery[yoltage <sup>*</sup>
N -[Body[ground	Shift@ever@ange:@N	Battery <u></u> ]voltage
D -[Body[ground	Shift[lever[lange:[D[and[4	Battery⊡voltage
4 –⊞ody[ground	Shift[]ever[jange:[4	Battery <u>[</u> yoltage
3 –∰ody[ground	Shift[]ever[jange:[3	Battery⊡voltage
2 –∰ody[ground	Shift[]ever[]ange:[2[and[]L	Battery <u>[</u> yoltage
L -[ <b>B</b> ody[ <b>g</b> round	Shift[]ever[]ange:[].	Battery[]voltage

#### HINT:

\*: The Yoltage Will drop slightly due for ghting up of the back up light.



Check and replace the Engine and ECT ECU (See page N-38).



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