

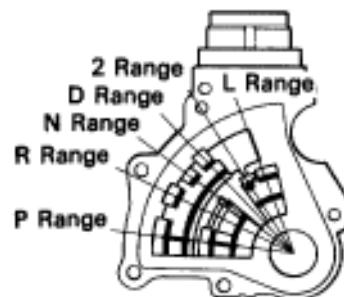
Neutral Start Switch Circuit

CIRCUIT DESCRIPTION

Text

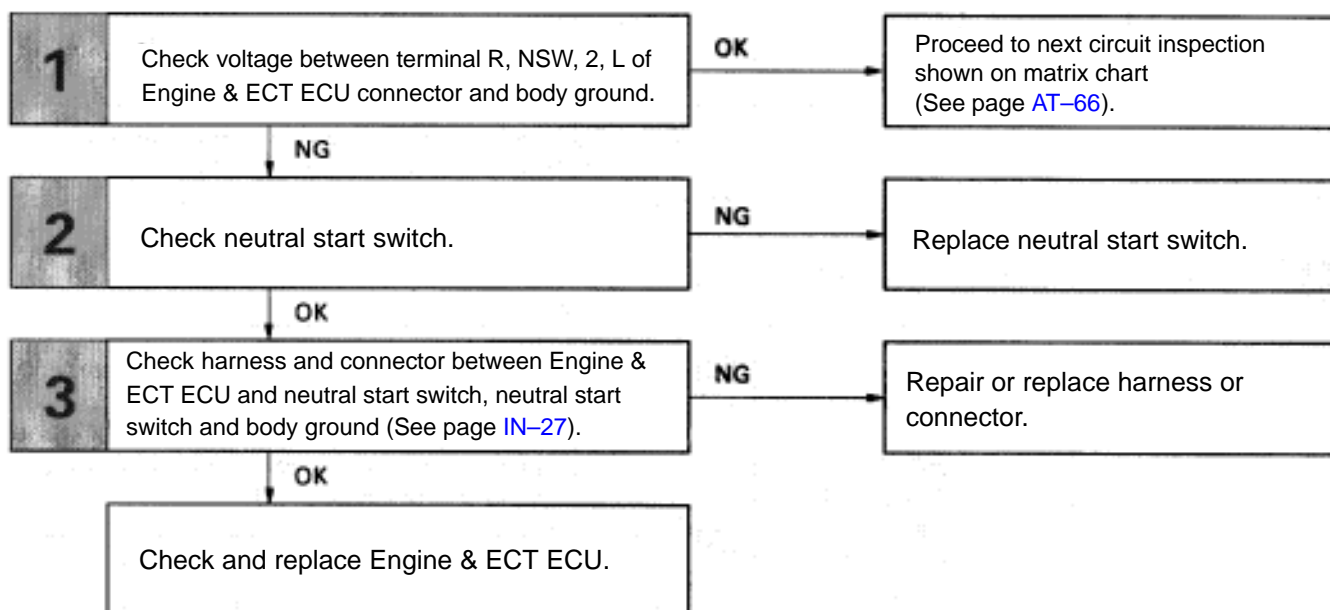
The neutral start switch detects the shift lever position and sends signals to Engine & ECT ECU.

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

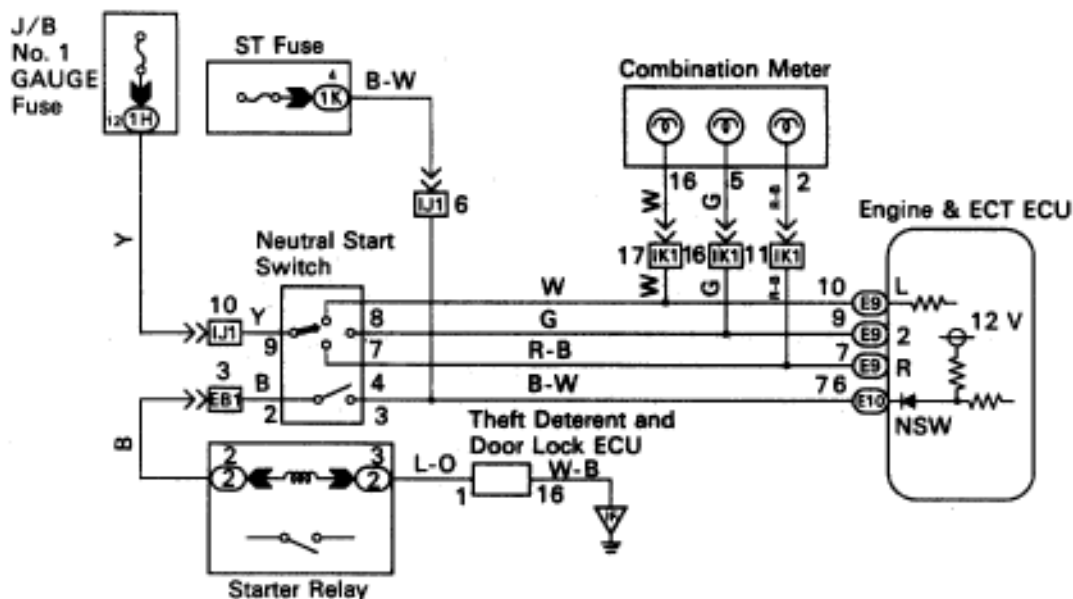


AT5614

DIAGNOSTIC CHART



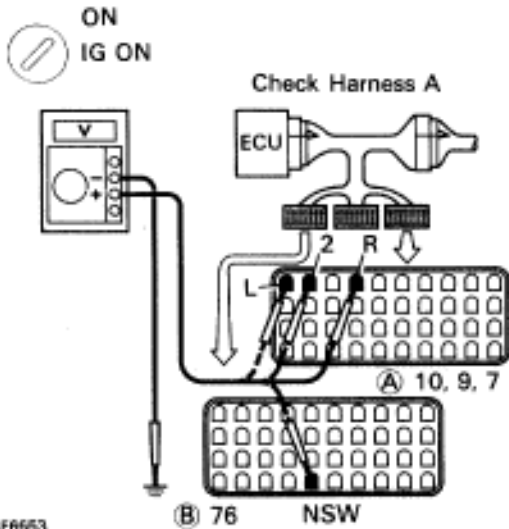
WIRING DIAGRAM



INSPECTION PROCEDURE

1

Check voltage between terminal R, NSW, 2, L of Engine & ECT ECU connector and body ground.

BE6653
AT8780

NG

P

1. Connect the Check Harness A to the ECU. (See page [TR-30](#)).

C

2. Turn ignition switch on. Measure voltage between terminals R, NSW, 2, L of Engine & ECT ECU connector and body ground when the shift lever is positioned to the following ranges

OK

Range	R-body ground	NSW-body ground	2-body ground	L-body ground
P, N	0 V	0 V	0 V	0 V
R	10 – 14 V*	10 – 14 V*	0 V	0 V
D	0 V	10 – 14 V	0 V	0 V
2	0 V	10 – 14 V	10 – 14 V	0 V
L	0 V	10 – 14 V	0 V	10 – 14 V

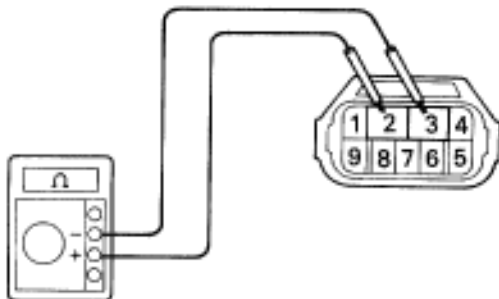
*: The voltage will drop slightly due to lighting up of the back up light.

OK

Proceed to next circuit inspection shown on matrix chart (See page [AT-66](#)).

2

Check neutral start switch.



AT5528

OK

P

1. Jack up the vehicle.

2. Remove neutral start switch (See page [AT-20](#)).

C

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

Terminal	3	2	9	1	4	6	5	7	8
Shift Position									
P	○—○		○—○						
R			○—○	○—○					
N	○—○		○—○		○—○				
D			○—○				○—○		
2			○—○					○—○	
L			○—○						○—○

NG

Replace neutral start switch.

3

Check harness and connector between Engine & ECT ECU and neutral start switch, neutral start switch and battery (See page [IN-27](#)).

OK

NG

Repair or replace harness or connector.

Check and replace Engine & ECT ECU .