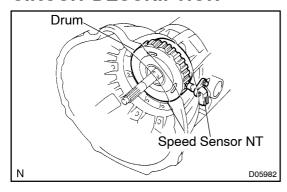
CIRCUIT INSPECTION

DIAVE-01

DTC	l	NT Revolution Sensor Circuit Malfunction (Speed Sensor NT)
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CIRCUIT DESCRIPTION

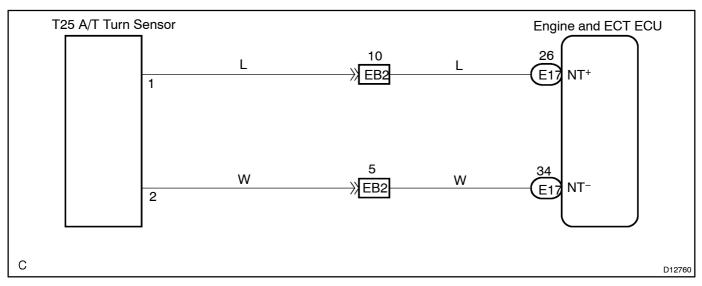


The speed sensor NT detects the rotation speed of the input shaft from the rotation of the drum. Its construction is the same as that of the speed sensor SP2.

By comparing the speed sensor NT signal and speed sensor SP2 signal, the Engine and ECT ECU detects the shift timing of the gears and appropriately controls the engine torque and hydraulic pressure in response to various conditions, thus doing smooth gear shift.

DTC No.	DTC Detection Condition	Trouble Area
37	All conditions below are detected for 5 secs. or more (2–trip detection logic) (a) Gear change not being performed (b) Gear range: 1st, 2nd, 3rd, 4th or 5th (c) T/M input shaft rpm: 300 rpm or less (d) T/M output shaft rpm: 1,000 rpm or more (e) Neutral start switch: OFF (f) Shift solenoid valves, park/neutral posotion switch and vehicle speed sensor are in normal operation	Open or short in speed sensor NT circuit Speed sensor NT Engine and ECT ECU Automatic transmission assembly

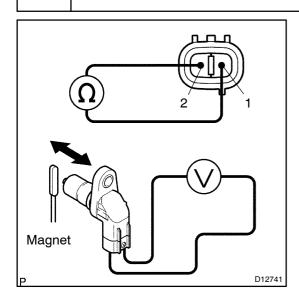
WIRING DIAGRAM



INSPECTION PROCEDURE

1∏

Check[speed[sensor[NT.



PREPARATION:

Remove[the[speed[sensor[NT.

CHECK:

(a) \square Measure \square he \square esistance \square between \square he \square ensor \square erminals.

Standard: \$60 - 680 \(\Omega \) at \(\Omega \) C (68 \(\Omega \) F)

Standard: Sensor generates voltage intermittently

HINT:

The generated voltage sextremely www.

OK:

Standard.

NG_[]

Replace speed sensor NT.

OK

2 Check[harness[and]connector[between Engine[and]ECT]ECU[and]speed[sensor NT][See[page]N-38).

NG

Repair or replace harness and connector.

OK

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