

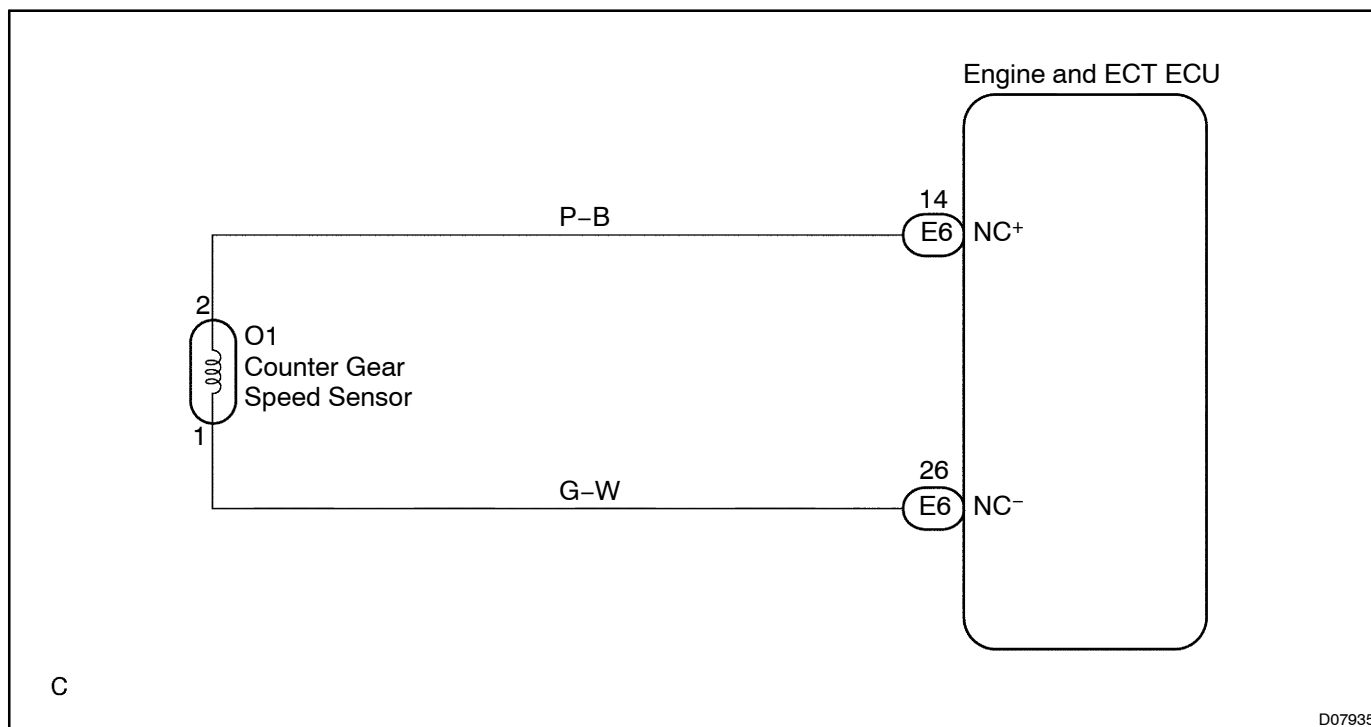
DTC	P1730/67	NC Revolution Sensor Circuit Malfunction (Counter Gear Speed Sensor)
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CIRCUIT DESCRIPTION

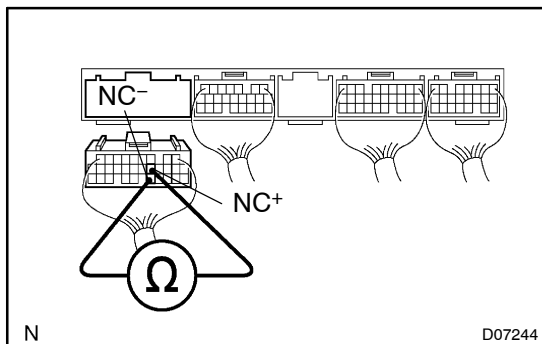
This sensor detects the rotation speed of the counter gear. By comparing the counter gear speed signal (NC) and the input turbine speed sensor signal (NT), the Engine and ECT ECU detects the shift timing of the gears and appropriately controls the engine torque and hydraulic pressure in response to various conditions, thus performing smooth gear shifting.

DTC No.	DTC Detecting Condition	Trouble Area
P1730/67	The Engine and ECT ECU detects conditions (a), (b), (c) and (d) continuity for 5 secs or more. (1-trip detection logic) (a) IG SW: ON (b) Neutral start switch: Except P, N range (c) T/M input shaft rpm: 300 rpm or less (d) T/M output shaft rpm: 1,000 rpm or more	• Open or short in counter gear (NC) speed sensor circuit • Counter gear (NC) speed sensor • Engine and ECT ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check resistance between terminals NC⁺ and NC⁻ of Engine and ECT ECU.**PREPARATION:**

Disconnect the connector from Engine and ECT ECU.

CHECK:

Check resistance between terminals NC⁺ and NC⁻ of Engine and ECT ECU.

OK:

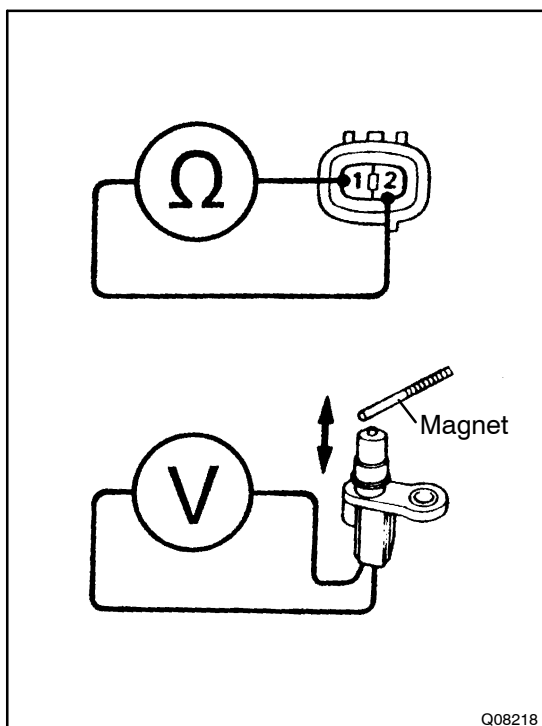
Resistance: $620 \pm 60 \Omega$

OK

Check and replace the Engine and ECT ECU
(See page IN-30).

NG

2 Check counter gear speed sensor.

**PREPARATION:**

Remove the counter gear speed sensor from transaxle.

CHECK:

- (a) Measure resistance between terminals 1 and 2 of speed sensor.
- (b) Check voltage between terminals 1 and 2 of the speed sensor when a magnet is put close to the front end of the speed sensor then taken away quickly.

OK:

(a) Resistance: $620 \pm 60 \Omega$ at 20 °C (68 °F)

(b) Voltage is generated intermittently.

HINT:

The voltage generated is extremely low.

NG

Replace the counter gear speed sensor.

OK

Check and repair the harness and connector between Engine and ECT ECU and counter gear speed sensor (See page IN-30).