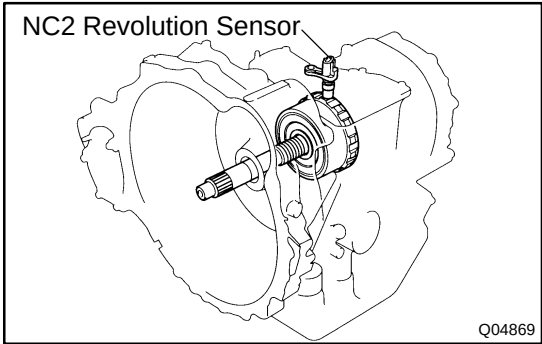


DTC	P1705	NC2 Revolution Sensor Circuit Malfunction (Direct Clutch Speed Sensor)
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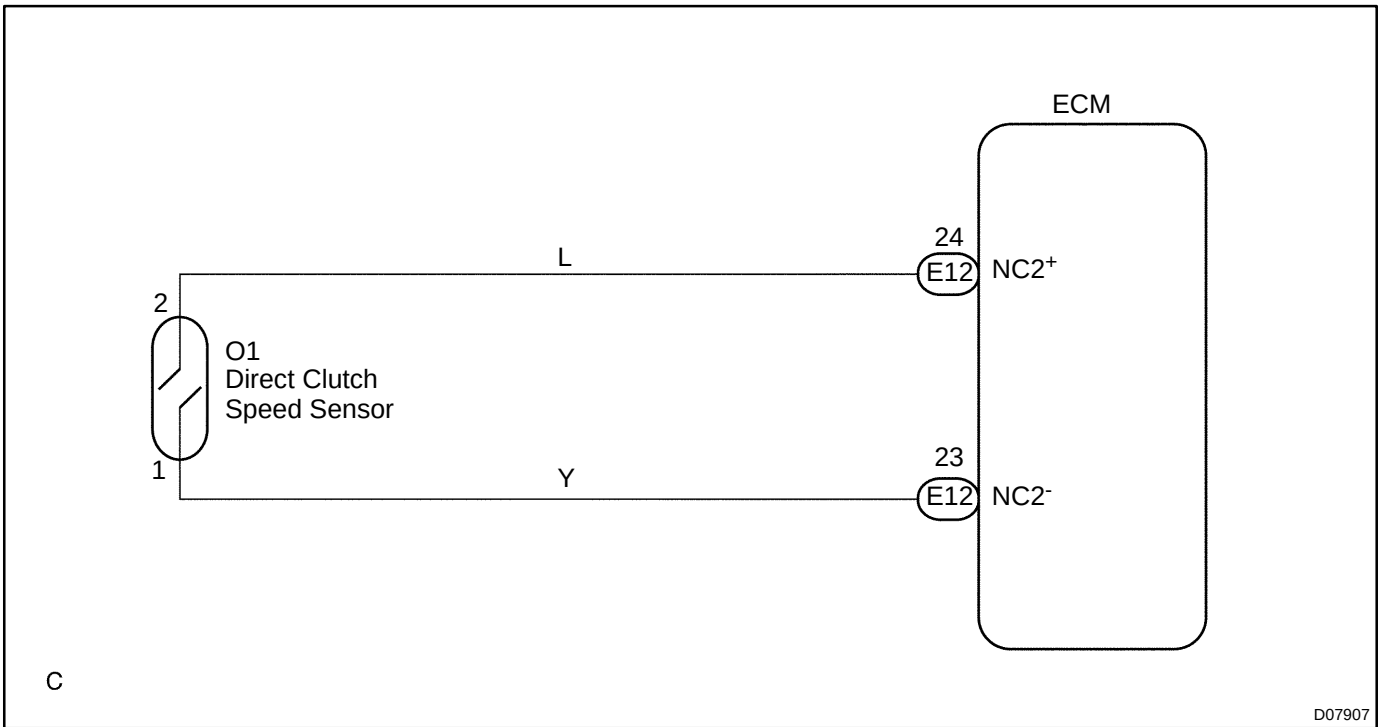
CIRCUIT DESCRIPTION



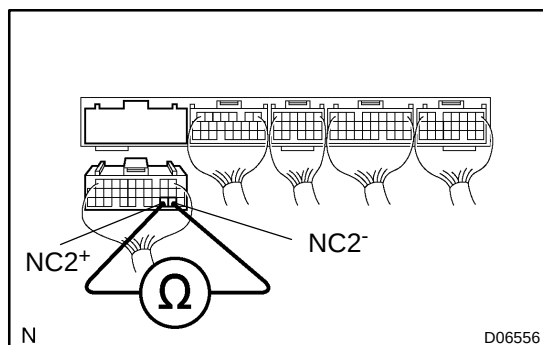
This sensor detects the rotation speed of the direct clutch drum. By comparing the direct clutch speed signal with the vehicle speed sensor signal, the ECM detects the shift timing of the gears and appropriately controls the engine torque and hydraulic pressure in response to various conditions, thus performing smooth gear shifting.

DTC No.	DTC Detecting Condition	Trouble Area
P1705	The ECM detects conditions (a), (b), (c), (d), (e) and (f) continuity for 4 secs. or more. (2-trip detection logic) (a) Gear change not being performed (b) Gear position: 1st, 2nd 3rd or O/D (c) T/M input shaft rpm: 300 rpm or less (d) T/M output shaft rpm: 1,000 rpm or more (e) Park/neutral position switch: OFF (f) Shift solenoid valves No. 1, No. 2, SL and vehicle speed sensor are in normal operation.	• Open or short in direct clutch speed sensor circuit • Direct clutch speed sensor • ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check resistance between terminals NC2⁺ and NC2⁻ of ECM.**PREPARATION:**

- (a) Remove the glove compartment.
- (b) Disconnect the connector from ECM.

CHECK:

Check resistance between terminals NC2⁺ and NC2⁻ of ECM.

OK:

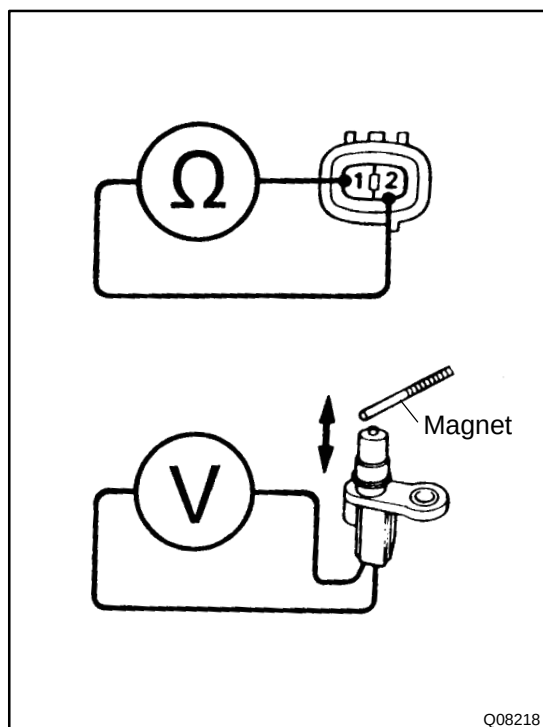
Resistance: 560 - 680 Ω at 20 °C (68 °F)

OK

Check and replace the ECM (See page [IN-31](#)).

NG

2 Check direct clutch speed sensor.

**PREPARATION:**

Remove the Direct clutch 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: 560 - 680 Ω at 20 °C (68 °F)

(b) Voltage is generated intermittently.

HINT:

The voltage generated is extremely low.

NG

Replace the direct clutch speed sensor.

OK

Check and repair the harness and connector between ECM and direct clutch speed sensor (See page [IN-31](#)).