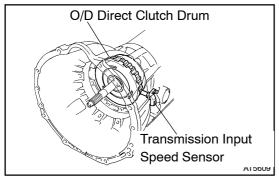
DI61T-02

DTC

P0715/67 Input/Turbine Speed Sensor Circuit Malfunction (Transmission Input Speed Sensor)

CIRCUIT DESCRIPTION



This sensor detects the rotation speed of the O/D input shaft from the rotation of the O/D direct clutch drum.

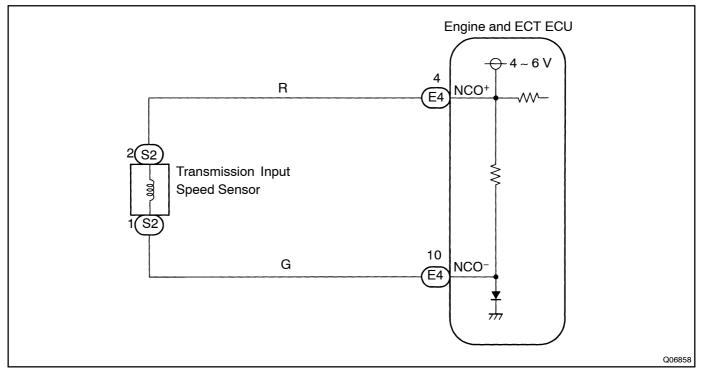
Its construction is the same as that of the transmission output speed sensor (See page DI–180).

By comparing the O/D direct clutch speed signal to the transmission output speed sensor signal, the Engine and ECT ECU detects the shift timing of the gear and appropriately controls the engine torque and hydraulic pressure in response to various conditions, thus performing smooth gear shift.

DTC No.	DTC Detection Condition		Trouble Area
P0715	All conditions below are detected for 5 secs. or more (1-trip detection logic) (a) Gear change not being performed (b) Gear position: 1st, 2nd or 3rd (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) No. 1, No. 2, SLU solenoid valves and transmission output speed sensor are in normal operation		 Open or short in transmission input speed sensor circuit Transmission input speed sensor Engine and ECT ECU
GND	1V / Div		art for the wave form between terminals NCO ⁺ ng engine idling.
	2 msec. / Div.		

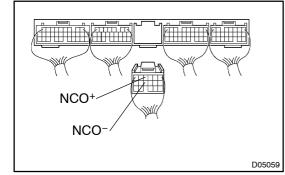
AT8763

WIRING DIAGRAM



INSPECTION PROCEDURE





PREPARATION:

Disconnect the connector from Engine and ECT ECU. **CHECK:**

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

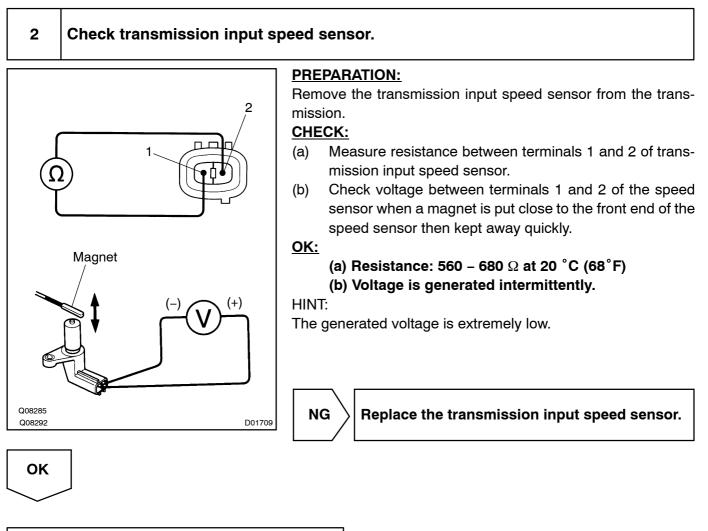
<u>OK:</u>

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



Check and replace the Engine and ECT ECU (See page IN-32).

NG



Check and repair harness and connector between Engine and ECT ECU and transmission input speed sensor (See page IN-32).