DI3RY-0

DTC	P1700/61	Speed Sensor No.2 Circuit Malfunction (No.2 Speed Sensor)	
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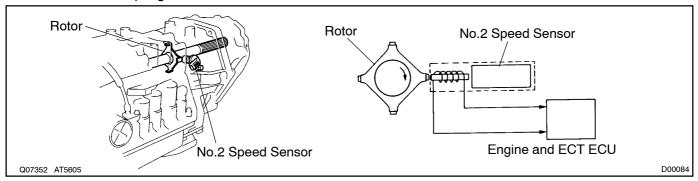
CIRCUIT DESCRIPTION

The No.2 speed sensor detects the rotation speed of the transmission output shaft and sends signals to the Engine and ECT ECU. The Engine and ECT ECU determines the vehicle speed based on these signals. An AC voltage is generated in the No.2 speed sensor coil as the rotor mounted on the output shaft rotates,

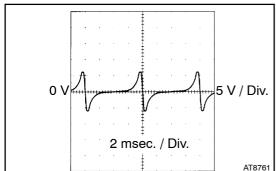
An AC voltage is generated in the No.2 speed sensor coil as the rotor mounted on the output shaft rotates, and this voltage is sent to the Engine and ECT ECU.

The gear shift point and lock-up timing are controlled by the Engine and ECT ECU based on the signals from this speed sensor and the throttle position sensor signal.

If the No.2 speed sensor malfunctions, the Engine and ECT ECU uses input signals from the No.1 speed sensor as a back-up signal.



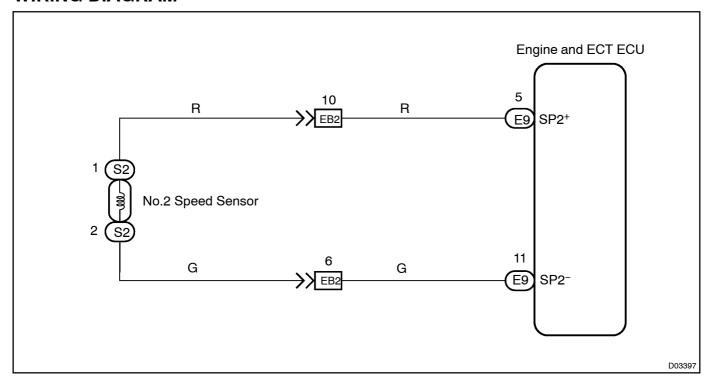
DTC No.	DTC Detecting Condition	Trouble Area
P1700/61	All conditions below are detected 500 times or more continuously. (2 trip detection logic) (a) No signal from No.2 speed sensor is input to Engine and ECT while 4 pulses of No.1 speed sensor signal are sent. (b) Vehicle speed: 9 km/h (5.6 mph) or more for at least 4 seconds (c) Neutral start switch: OFF (Other than P or N)	Open or short in No.2 speed sensor circuit No.2 speed sensor Engine and ECT ECU



HINT:

Refer to the chart for the wave from between terminals SP2⁺ and SP2⁻ when vehicle speed is approx. 60 km/h (37 mph).

WIRING DIAGRAM



INSPECTION PROCEDURE

1[]

Check[yehicle[speed[yalue[ori]resistance[between[]rminals[\$P2f]and[\$P2-of Engine[and[ECT[ECU.

When using hand-held tester:

PREPARATION:

- (a) Remove he DLC3 cover.
- (b) Connect hand-held tester to the DLC3.
- (c) Starthe engine and ural and held star main switch ON.

CHECK:

Drive the vehicle and read vehicle speed value.

OK:

Vehicle speed matches tester speed value.

When not using hand-held tester:

PREPARATION:

Disconnector[from[Engine]and[ECT[ECU.

CHECK:

OK

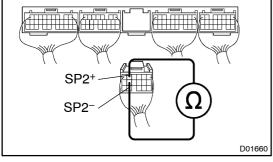
Check@esistance@etween@erminals\P2-\and\P2-\deltafengine and\ECT\ECU.

OK:

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



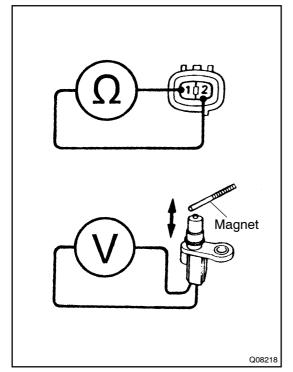
Check and replace the Engine and ECT ECU (See page N-35).



NG

2∏

Check[No.2[speed[sensor.



PREPARATION:

Remove[]he[]No.2[\$peed[\$ensor[]rom[]]he[]ransmission.

CHECK:

- (a) Measure resistance between rminals fand 2 of No.2 speed sensor.
- (b) Check[voltage[between[lerminals]] [and[2][bf[No.2][speed]] sensor[when@magnet[is[put]close[to[the]front[end[of[the No.2[speed[sensor[then[taken[away[quickly.

OK:

- (a) [Resistance: 560 680 [2at 20] C [68] F)
- (b) Voltage is generated intermittently.

HINT:

The voltage generated sextremely ow.

NG∏

Replace[the[No.2[speed[sensor.

OK

Checkandrepair he harness and connector between Engine and ECT ECU and No.2 speed_sensor_(See_page_IN-35).