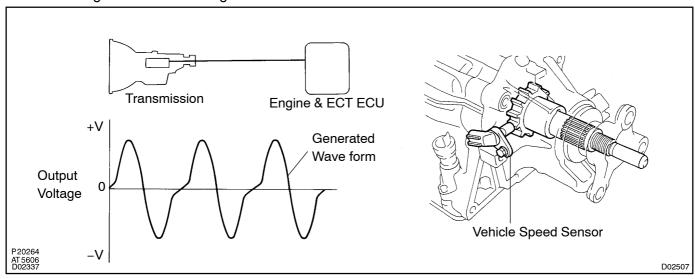
DI2L8-04

CIRCUIT INSPECTION

DTC	P0500/42	Vehicle Speed Sensor Malfunction
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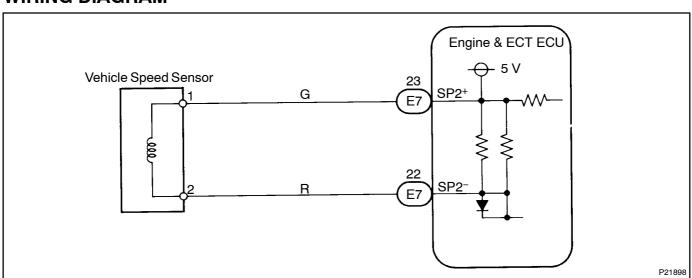
CIRCUIT DESCRIPTION

The vehicle speed sensor detects the rotation speed of the transmission output shaft and sends signals to the Engine & ECT ECU. The Engine & ECT ECU determines the vehicle speed based on these signals. An AC voltage is generated in the vehicle speed sensor coil as the rotor mounted on the output shaft rotates, and this voltage is sent to the Engine & ECT ECU.



DTC No.	DTC Detecting Condition	Trouble Area
P0500/42	No vehicle speed sensor signal to Engine & ECT ECU under conditions 1. and 2. 33.Neutral start switch is OFF 34.Vehicle is being driven Clutch or brake slips or gear broken	Open or short in vehicle speed sensor circuit Vehicle speed sensor Engine & ECT ECU Automatic transmission assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

Read[freeze[frame[data[using[hand-held[tester.]Because[freeze[frame[jecords[the]engine[conditions]when the final function is [detected, when froubleshooting it is useful for [determining] whether the frame for five frame for five frame from the final function. The fine frame frame frame frame frame from the final function frame frame

1[]

Connect[hand-held[tester[and[read[value]of[vehicle[speed[value.

PREPARATION:

- (a) Connect the thand-held tester to the DLC3.
- (b) Start he engine and held ester main witch N.

CHECK:

Drive the vehicle and read vehicle speed value.

<u>OK:</u>

Vehicle speed matches tester speed value



 $\label{lem:check_and_replace_engine} $$ \end{center} $$ Check_and_replace_Engine_&_ECT_ECU_(see page_N-35). $$$

OK

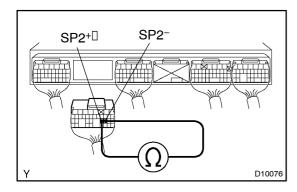
2 | Check[speedometer[circuit[See[page[BE-67]].

NG

Repair or replace speedometer circuit.

OK

3 Check[resistance[between[terminals[\$P2+[and[\$P2-[of[Engine[&[ECT[ECU[connector.



PREPARATION:

- (a) ☐ Remove The Finstrument panel Funder cover.
- (b) Disconnect the connector of the Engine & ECT ECU.

CHECK:

Check[resistance]between[terminals]\$P2+\textsquare\text

OK:

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

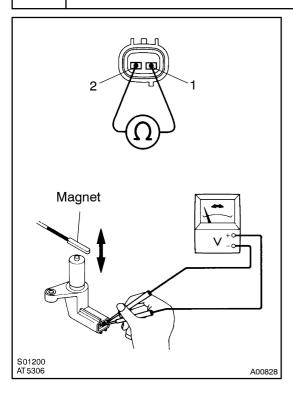


Check□and□replace□Engine□&□ECT□ECU□(See pageŪN-35).

NG

4

Check vehicle speed sensor.



PREPARATION:

Remove the vehicle speed sensor from the transmission.

CHECK:

Measure resistance between terminals 1 and 2 of the speed sensor.

OK:

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

Reference: Check vehicle speed sensor's function CHECK:

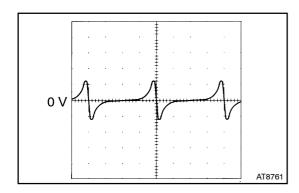
Check voltage between terminals 1 and 2 of the vehicle speed sensor when a magnet is put close to front end of the vehicle speed sensor then taken away quickly.

OK:

Voltage is generated intermittently

HINT:

The generated voltage is extremely low.



Reference: INSPECTION USING OSCILLOSCOPE

NG□

Replace vehicle speed sensor.

OK

5 Check[and]repair[harness[and]connector[between]Engine[&[ECT]ECU[and]vehicle[speed]sensor[See[page]N-35).

NG

Replace or repair wire harness or connector.

ОК

Check and repair the transmission (clutch, brake or gear etc.).