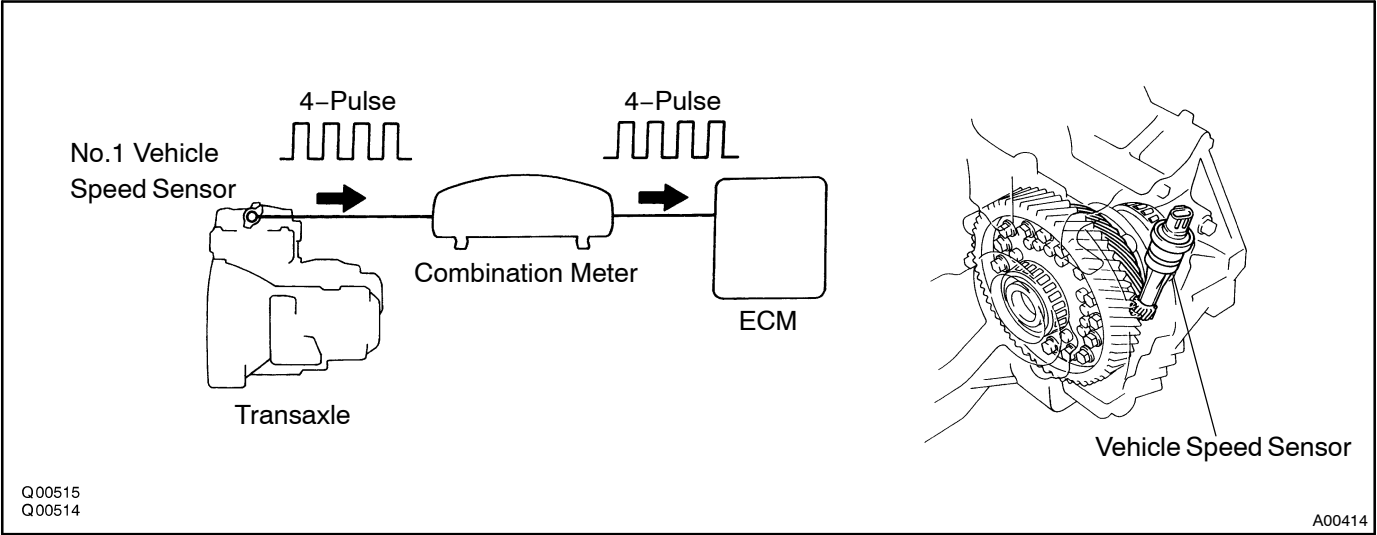


DTC	P0500/42	Vehicle Speed Sensor Malfunction
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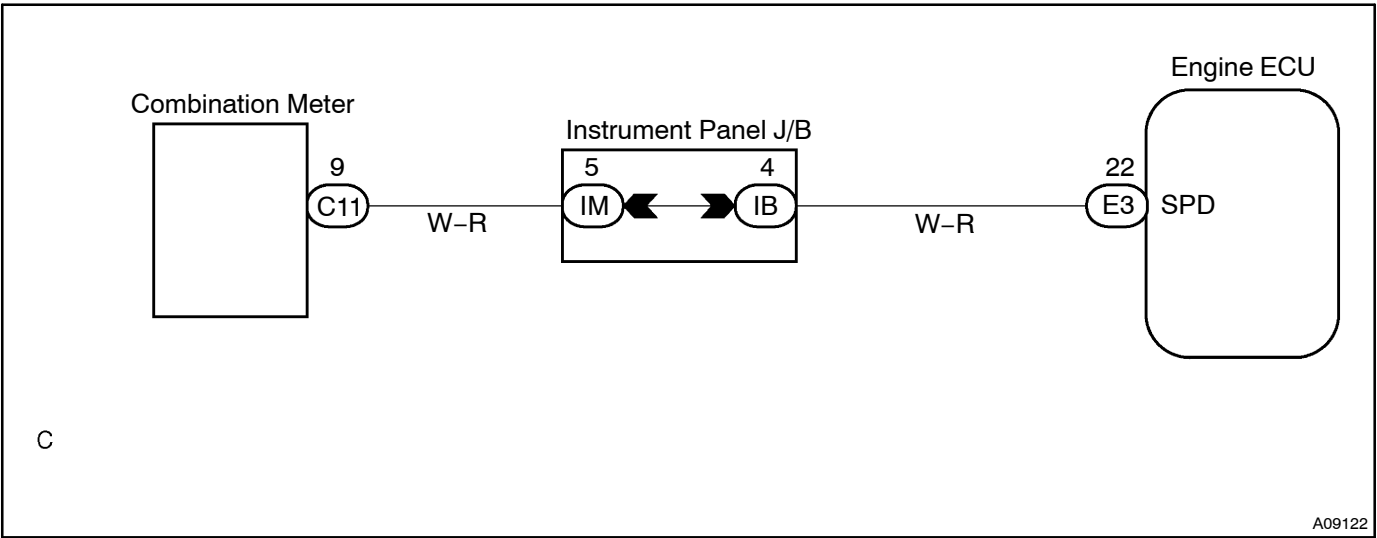
CIRCUIT DESCRIPTION

The vehicle speed sensor outputs a 4-pulse signal for every revolution of the rotor shaft, which is rotated by the transmission output shaft via the driven gear. After this signal is converted into a more precise rectangular waveform by the waveform shaping circuit inside the combination meter, it is then transmitted to the Engine ECU. The EngineECU determines the vehicle speed based on the frequency of these pulse signals.



DTC No.	DTC Detecting Condition	Trouble Area
P0500/42	During vehicle is being driven, no vehicle speed sensor signal to engine ECU (2 trip detection logic)	• Combination meter • Open or short in No.1 vehicle speed sensor circuit • No.1 vehicle speed sensor • Engine ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

Read freeze frame data using hand-held tester. Because freeze frame records the engine conditions when the malfunction is detected, when troubleshooting it is useful for determining whether the vehicle was running or stopped, the engine warmed up or not, the air-fuel ratio lean or rich, etc. at the time of the malfunction.

1 Check operation of speedometer.

CHECK:

Drive the vehicle and check if the operation of the speedometer in the combination meter is normal.

HINT:

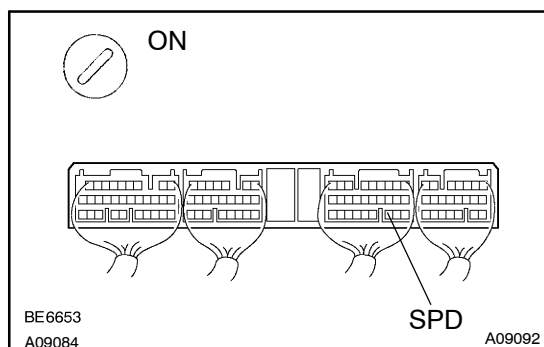
The vehicle speed sensor is operating normally if the speedometer display is normal.

NG

Check speedometer (See Pub. NO. RM734E BE section).

OK

2 Check voltage between terminal SPD of Engine ECU connector and body ground.



PREPARATION:

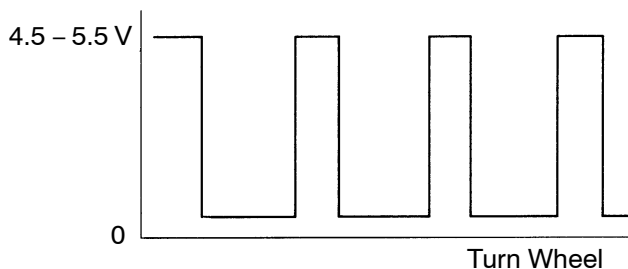
- Shift the shift lever to neutral.
- Lift up the vehicle.
- Turn the ignition switch ON.

CHECK:

Measure voltage between terminal SPD of the Engine ECU connector and body ground when the wheel is turned slowly.

OK:

Voltage is generated intermittently.



A07133

NG**Check and repair harness and connector between combination meter and Engine ECU.****OK****Check and replace Engine ECU
([See page IN-20](#)).**