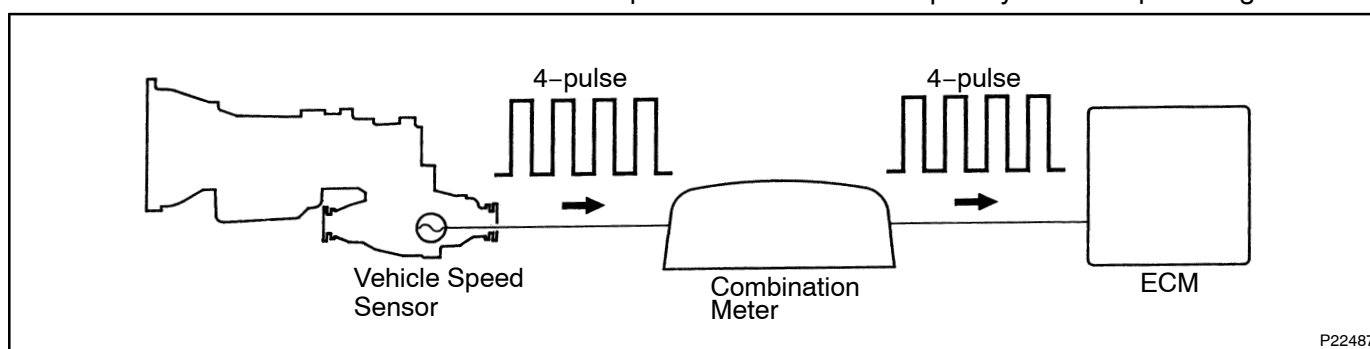


DTC	P0500	Vehicle Speed Sensor "A"
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DTC	P0503	Vehicle Speed Sensor "A" Intermittent/Erratic/High
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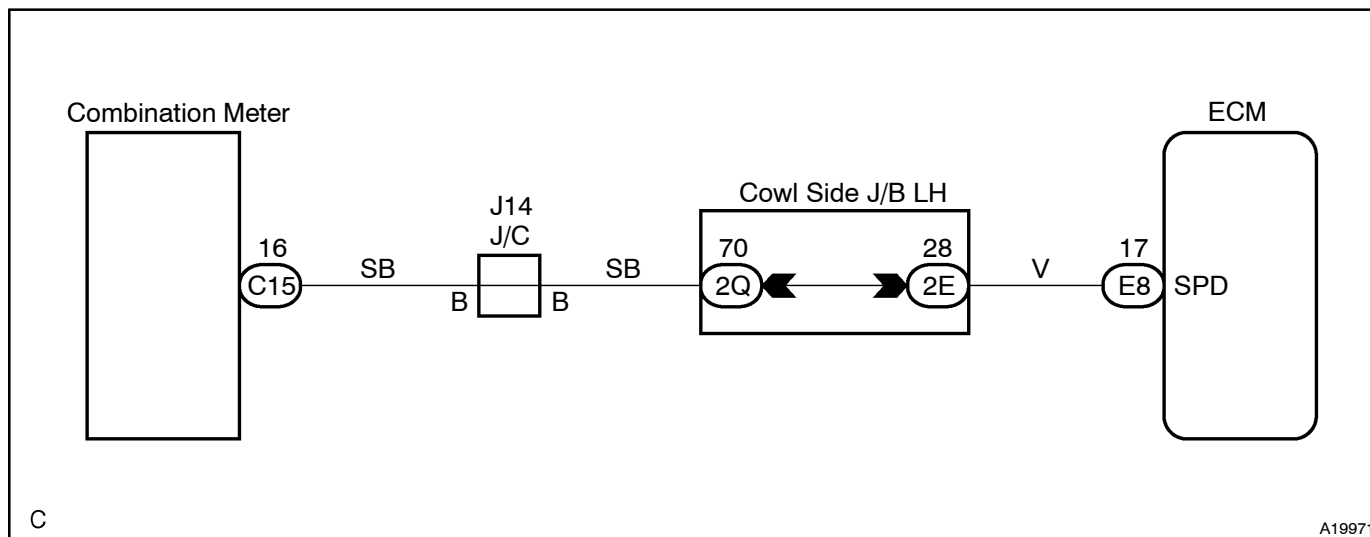
CIRCUIT DESCRIPTION

The No.1 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 ECM. The ECM determines the vehicle speed based on the frequency of these pulse signals.



DTC No.	Proceed to	DTC Detection Condition	Trouble Area
P0500	Step 1	No vehicle speed sensor signal to ECM under following conditions (a) and (b): (1 trip detection logic) (a) Park/neutral position switch is OFF (b) Vehicle is being driven	• Combination meter • Open or short in vehicle speed sensor circuit • Vehicle speed sensor • ECM
P0503	DI-3	Intermittent problem in the vehicle speed sensor circuit	

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

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

1	Check operation of speedometer.
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CHECK:

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

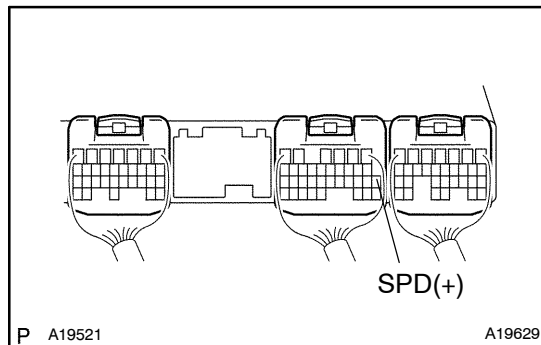
HINT:

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

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Check speedometer circuit. See combination meter troubleshooting (See page [BE-2](#)).

OK

2**Check voltage between terminal SPD of ECM connector and body ground.****PREPARATION:**

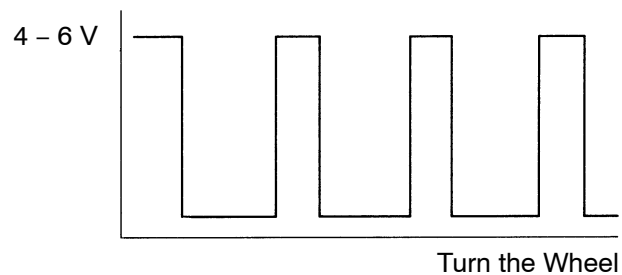
- (a) Remove the glove compartment door (See page [SF-60](#)).
- (b) Shift the shift lever to neutral.
- (c) Jack up the rear wheel on one side.
- (d) Turn the ignition switch ON.

CHECK:

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

OK:

Voltage is generated intermittently.



AT7809

NG

Check and repair harness and connector between combination meter and ECM.

OK

Check and replace ECM (See page [IN-36](#)).