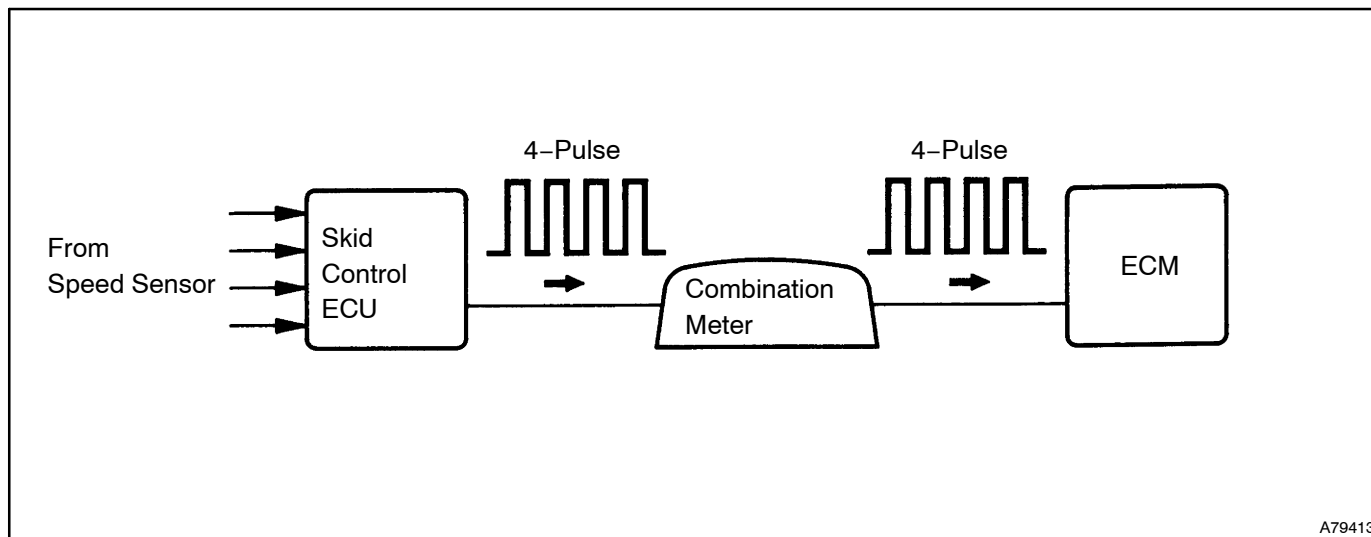


<b>DTC</b>	<b>P0500/42</b>	<b>VEHICLE SPEED SENSOR "A"</b>
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## CIRCUIT DESCRIPTION

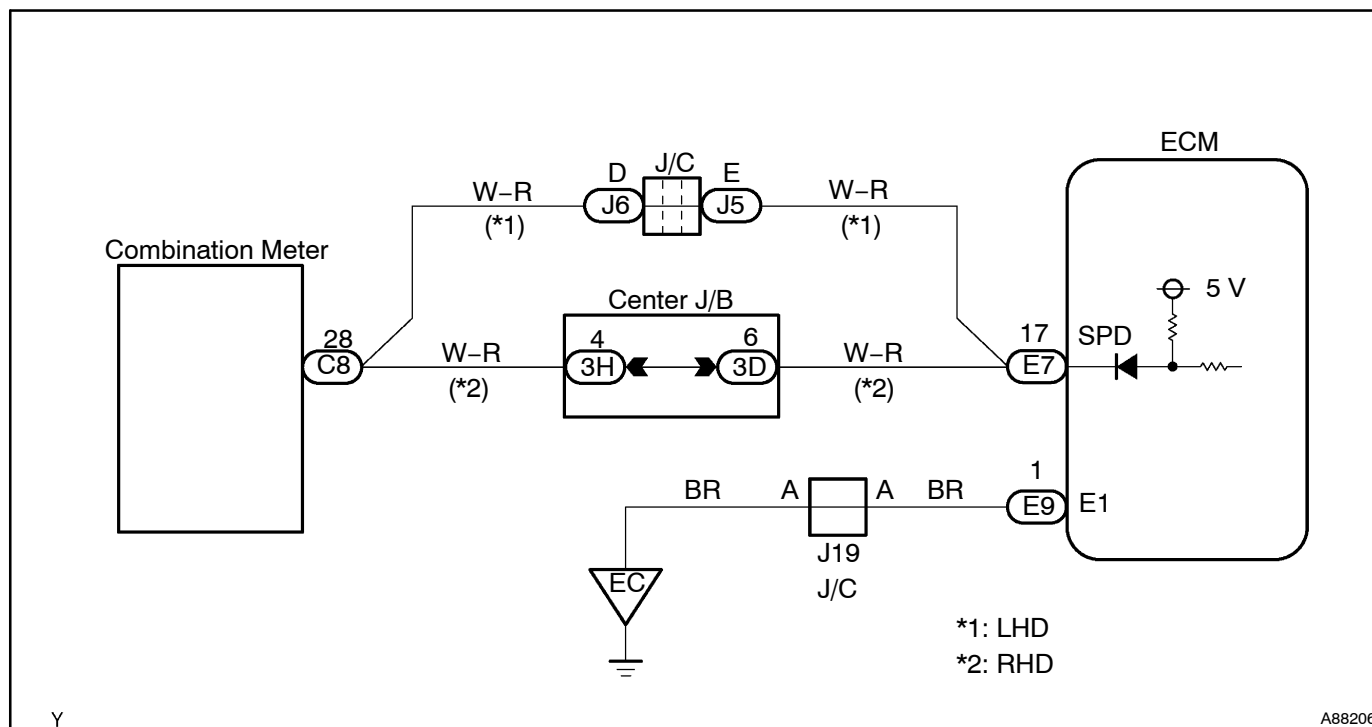
The speed sensor detects the wheel speed and sends appropriate signals to the skid control ECU. The skid control ECU converts these wheel speed signals into a 4-pulse signal and outputs it to the ECM via the combination meter. The ECM determines the vehicle speed based on the frequency of these pulse signals.



A79413

DTC No.	DTC Detection Condition	Trouble Area
P0500/42	During the vehicle is being driven, no vehicle speed sensor signal to the ECM (1 trip detection logic)	<ul style="list-style-type: none"> <li>• Open or short in speed sensor circuit</li> <li>• Vehicle speed sensor</li> <li>• Combination meter</li> <li>• ECM</li> <li>• Skid control ECU</li> </ul>

## WIRING DIAGRAM



## INSPECTION PROCEDURE

### HINT:

Read freeze frame data using the intelligent tester II. Freeze frame data record the engine condition when malfunctions are detected. When troubleshooting, freeze frame data can help determine if the vehicle was moving or stationary, if the engine was warmed up or not, if the air-fuel ratio was lean or rich, and other data from the time the malfunction occurred.

### 1 CHECK OPERATION OF SPEEDOMETER

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

### HINT:

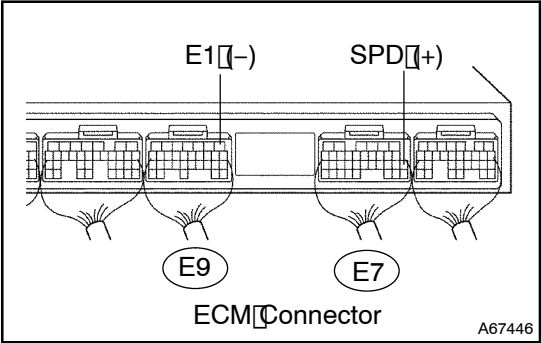
The vehicle speed sensor is operating normally if the speedometer reading is normal.

NG

**CHECK SPEEDOMETER CIRCUIT**  
(See page 05-656 of Pub. No. RM864E AVENSIS VERSO/PICNIC)

OK

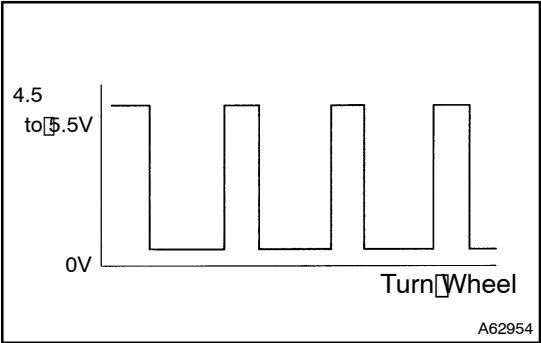
2 INSPECT ECM (SPD VOLTAGE)



- (a) Shift the transmission gear selector lever to the neutral position.
- (b) Jack up the vehicle.
- (c) Turn the ignition switch to ON.
- (d) Measure the voltage between the terminals of the E7 and E9 ECM connectors as the wheel is turned slowly.

Standard:

Tester Connection	Specified Condition
SPD (E7-17) - E1 (E9-1)	Generated Intermittently



HINT:  
The output voltage should fluctuate up and down similarly to the diagram on the left when the wheel is turned slowly.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE ECM (See page 10-30)