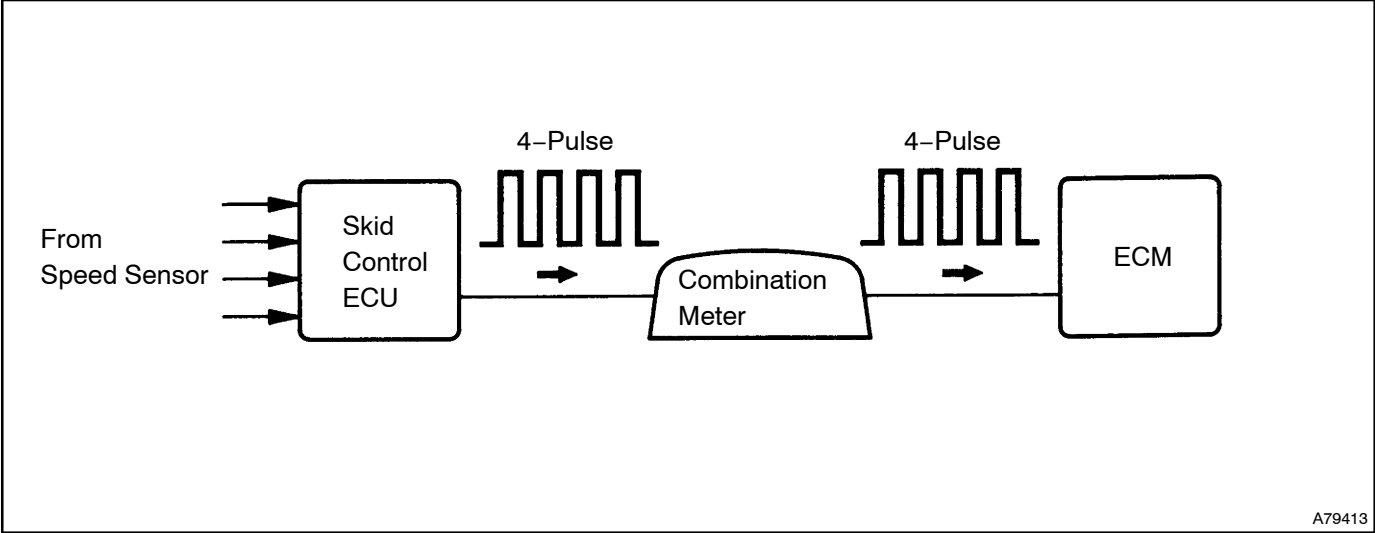


DTC	P0500	VEHICLE SPEED SENSOR "A"
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CIRCUIT DESCRIPTION

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	Conditions (a), (b) and (c) continue for 8 seconds or more: (2 trip detection logic) (a) Engine coolant temperature is more than 60°C (140°F) (b) Engine speed is between 2,000 rpm and 3,000 rpm (c) Speed signal is not input to ECM	<ul style="list-style-type: none">• Open or short in speed sensor circuit• Speed sensor• Combination meter• ECM• Skid control ECU

The diagram illustrates the wiring for the LHD and RHD configurations. The Combination Meter is connected to the ECM via a central junction box. The LHD configuration shows a direct connection between the meter and the ECM. The RHD configuration shows a connection through a central junction box with a center terminal.

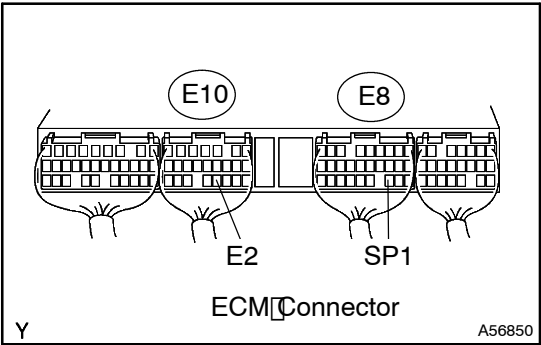
Wiring Details:

- Combination Meter:**
 - Terminal 28 (C8)
- ECM:**
 - Terminal 22 (E8) SP1
- Central Junction Box (J/C):**
 - Terminal 4 (3H)
 - Terminal 6 (3D)
- Wiring Labels:**
 - W-R (Wire-Right)
 - W (Wire)

AVENSIS VERSO/PICNIC Supplement (RM1032E)

3

INSPECT ECM (SP1 VOLTAGE)

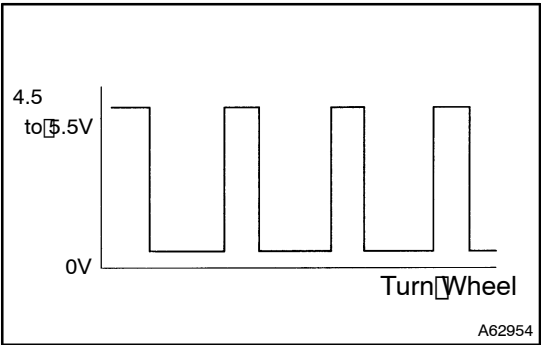


- (a) Shift the transmission gear selector lever to the neutral position.
- (b) Jack up the vehicle.
- (c) Turn the ignition switch to ON.
- (d) Check the voltage between the specified terminals of the E8 and E10 ECM connectors as the wheel is turned slowly.

Standard:

Tester Connection	Specified Condition
SP1 (E8-22) – E2 (E10-20)	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
CONNECTOR

REPLACE HARNESS OR

OK

REPLACE ECM (See page 10-30)