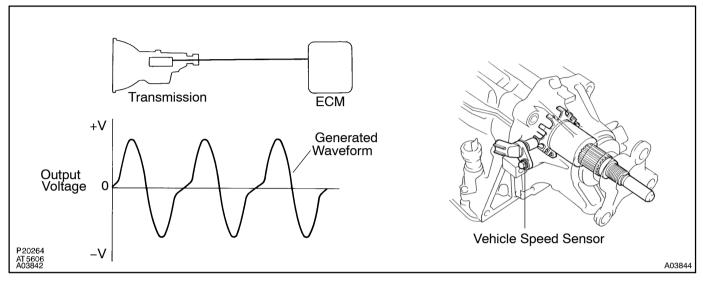
DTC
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P0500

## **Vehicle Speed Sensor Malfunction**

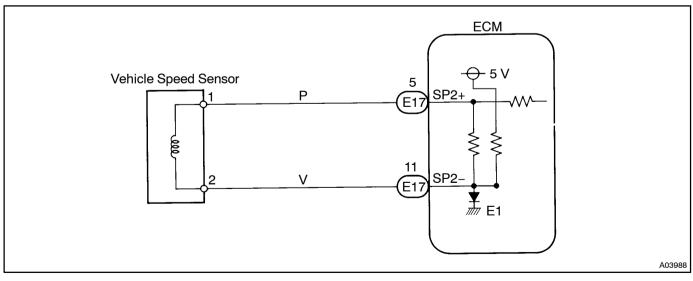
### **CIRCUIT DESCRIPTION**

The vehicle speed sensor detects the rotation speed of the transmission output shaft and sends signals to the ECM. The ECM 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 ECM.



DTC No.	DTC Detecting Condition	Trouble Area
P0500	No vehicle speed sensor signal to ECM under conditions (a) and (b): (a) Park/neutral position switch is OFF (b) Vehicle is being driven	<ul> <li>Open or short in vehicle speed sensor circuit</li> <li>Vehicle speed sensor</li> <li>ECM</li> </ul>

## WIRING DIAGRAM



DI2P1-03

## **INSPECTION PROCEDURE**

HINT:

Read freeze frame data using LEXUS hand-held tester or OBD II scan tool. 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 was warmed up or not, the air-fuel ratio was lean or rich, etc. at the time of the malfunction.

# 1 Connect OBD II scan tool or LEXUS hand-held tester, and read value of vehicle speed value.

### PREPARATION:

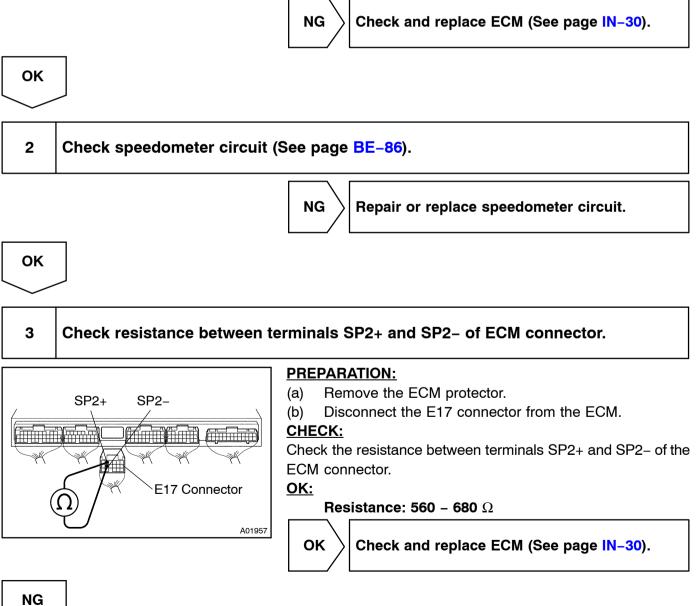
(a) Connect the OBD II scan tool or LEXUS hand-held tester to the DLC3.

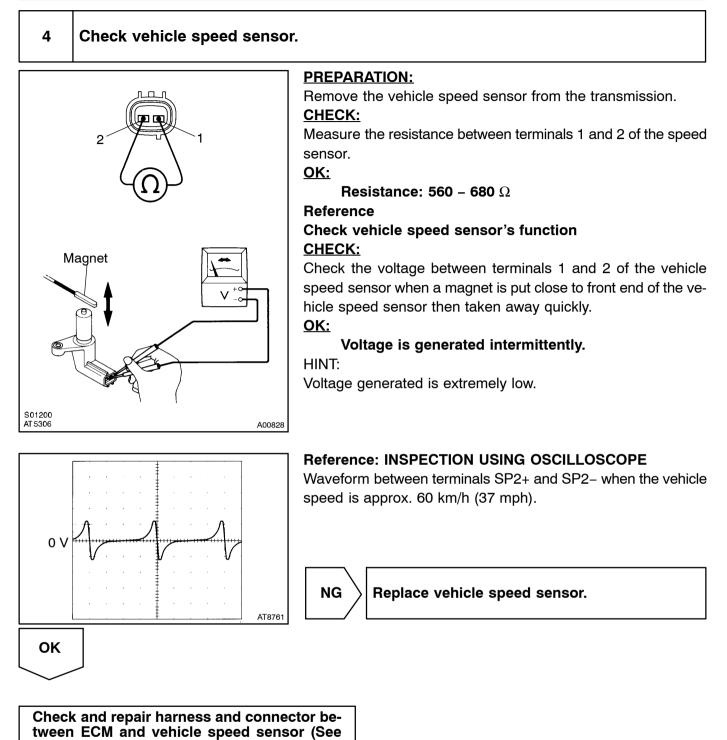
(b) Start the engine and push the OBD II scan tool or LEXUS hand-held tester main switch ON. CHECK:

Drive the vehicle and read vehicle speed value.

### <u>OK:</u>

### Vehicle speed matches tester speed value.





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