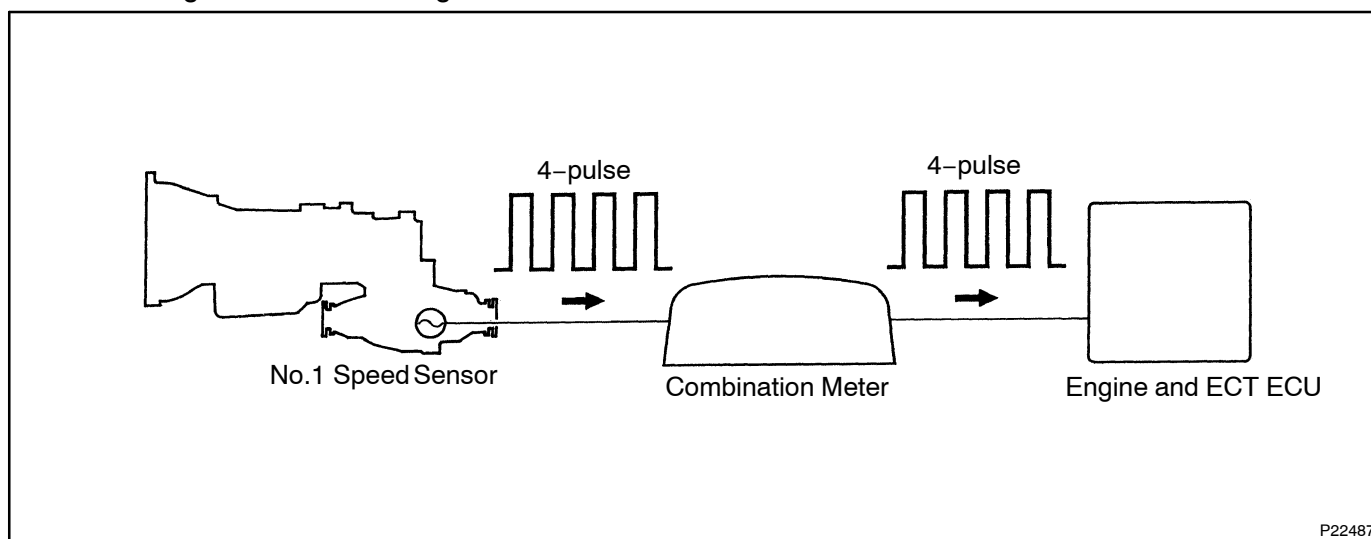


## CIRCUIT INSPECTION

<b>DTC</b>	<b>P0500/42</b>	<b>Vehicle Speed Sensor Malfunction (No.1 Speed Sensor)</b>
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### CIRCUIT DESCRIPTION

The No. 1 speed sensor detects the rotation speed of the transmission output shaft and sends signals to the Engine and ECT ECU. The Engine and ECT ECU 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 Engine and ECT ECU.

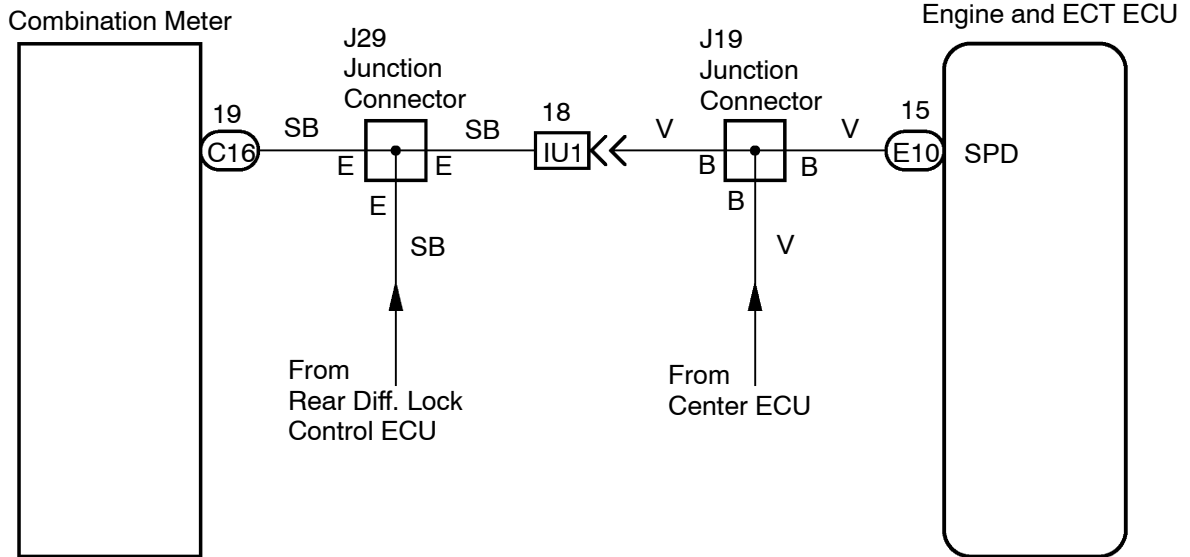


P22487

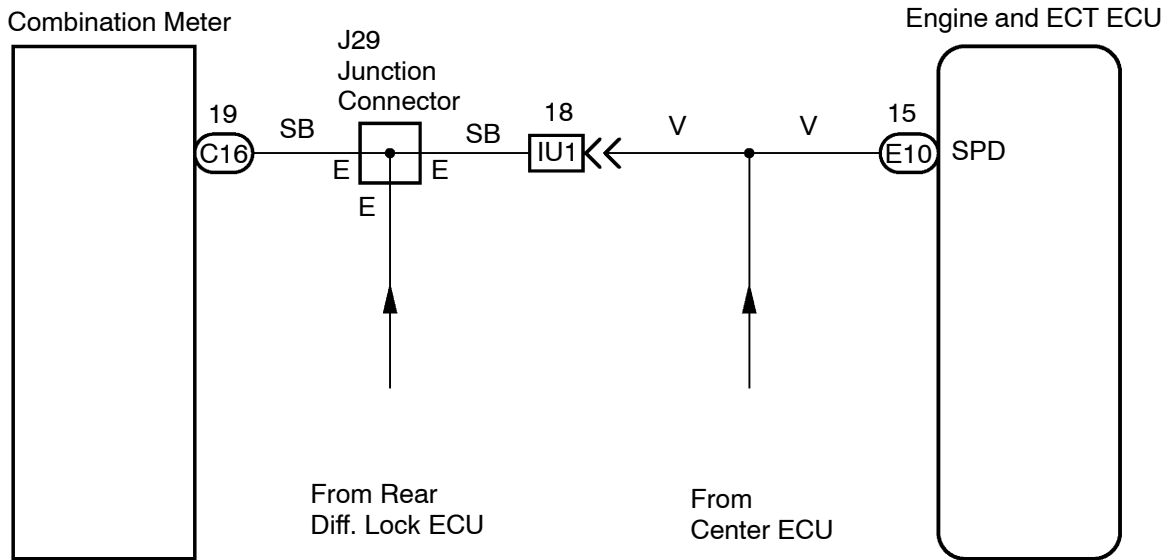
DTC No.	DTC Detecting Condition	Trouble Area
P0500/42	No vehicle speed sensor signal to Engine and ECT ECU under conditions (a) and (b): (a) Neutral start switch is OFF (b) Vehicle is being driven	<ul style="list-style-type: none"> <li>• Open or short in No. 1 speed sensor circuit</li> <li>• No.1 speed sensor</li> <li>• Engine and ECT ECU</li> <li>• Automatic transmission assembly</li> </ul>
	Clutch or brake slips or gear broken	

# WIRING DIAGRAM

LHD



RHD



D03056  
D03390

D04191

## 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	<b>Connect hand-held tester and read value of vehicle speed value.</b>
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### PREPARATION:

- (a) Connect the hand-held tester to the DLC3.
- (b) Start the engine and the hand-held tester main switch ON.

### CHECK:

Drive the vehicle and read vehicle speed value.

### OK:

**Vehicle speed matches tester speed value**

NG

Check and replace Engine and ECT ECU  
([See page IN-35](#)).

OK

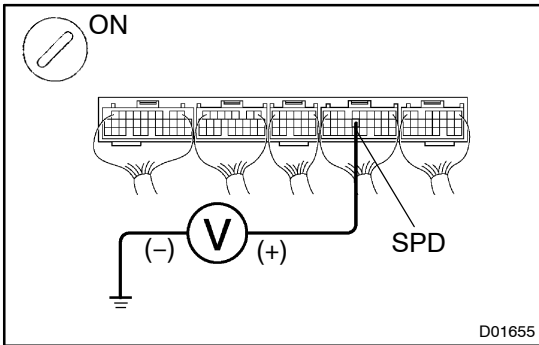
2	<b>Check speedometer circuit (<a href="#">See page BE-2</a>).</b>
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NG

Repair or replace speedometer circuit.

OK

**3 Check resistance between terminals SPD of Engine and ECT ECU connector and body ground.**



**PREPARATION:**

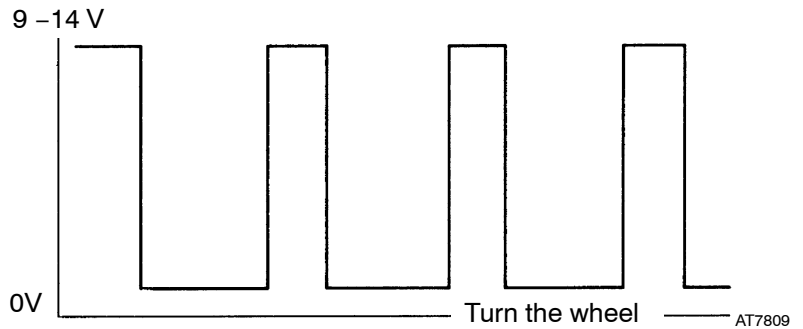
- Remove the glove compartment door  
(See page BO-127).
- Disconnect the cruise control ECU connector.
- Disconnect the connector of the Engine and ECT ECU.
- Shift the shift lever to neutral.
- Jack up the rear wheel on one side
- Turn ignition switch ON.

**CHECK:**

Check voltage between terminals SPD of the Engine and ECT ECU connector and body ground when the wheel is turned slowly.

**OK:**

**Voltage is generated intermittently**



**NG**

**Check and repair harness and connector between combination meter and Engine and ECT ECU.**

**OK**

**Check and replace Engine and ECT ECU  
(See page IN-35).**