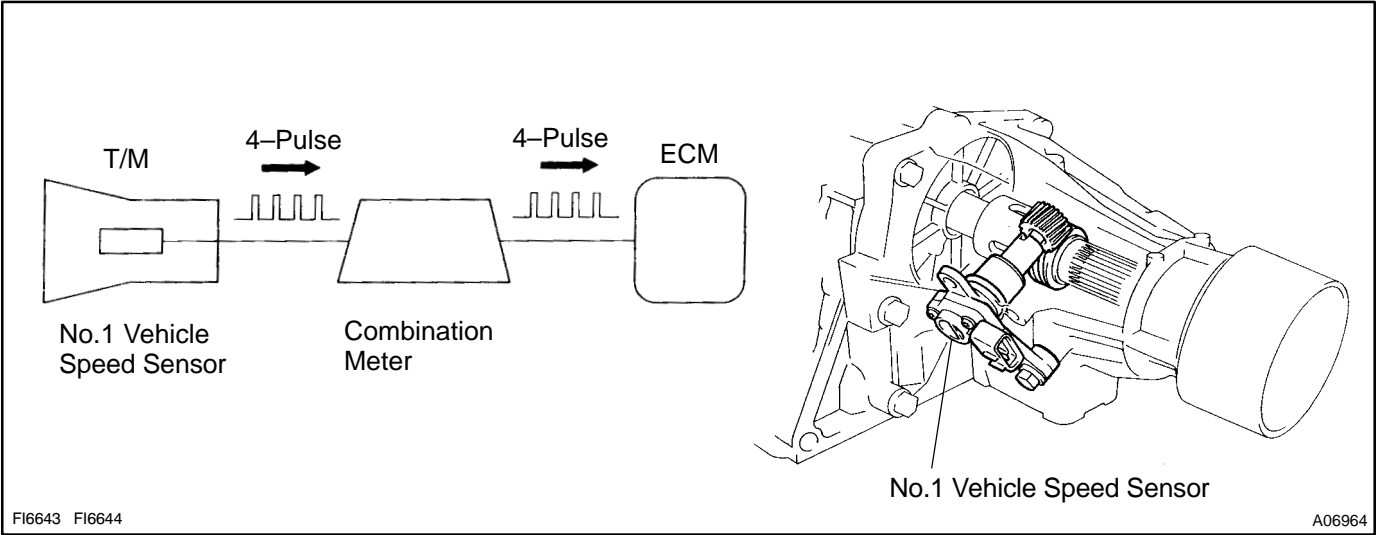


DTC	P0500	Vehicle Speed Sensor Malfunction
-----	-------	----------------------------------

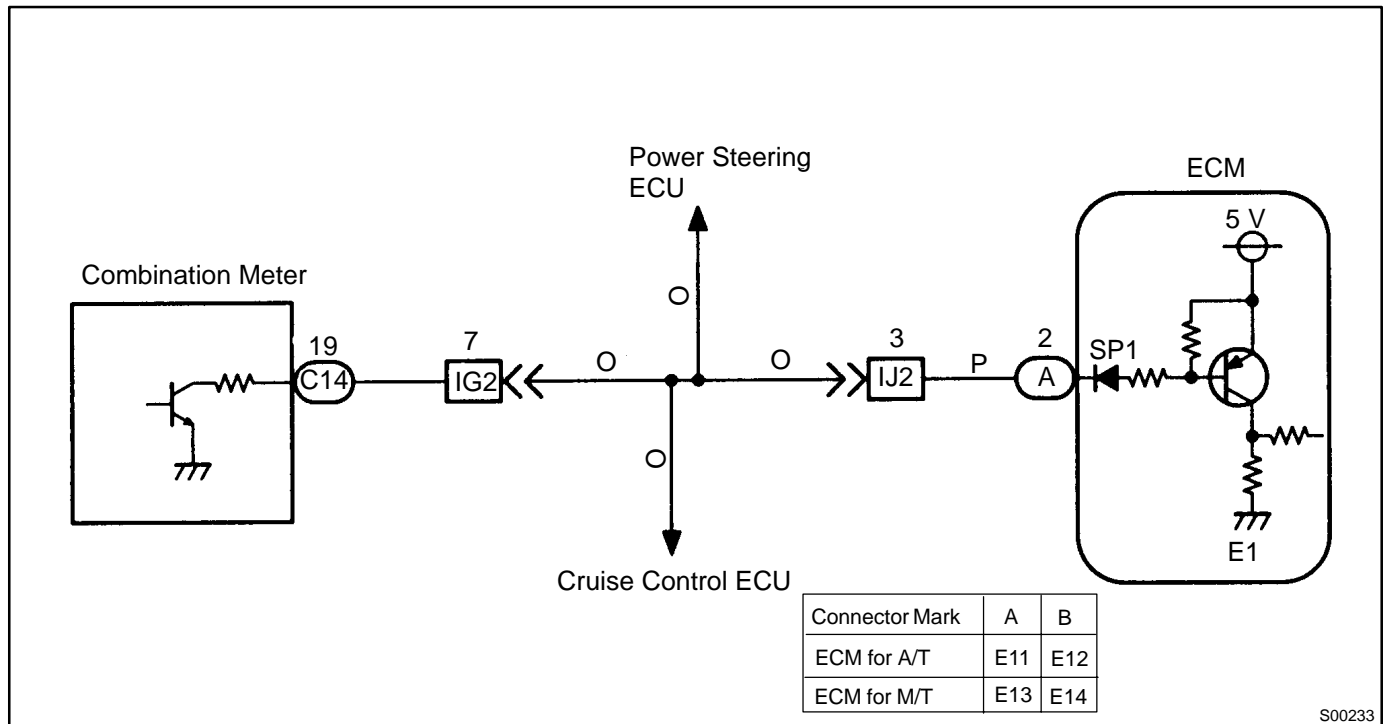
CIRCUIT DESCRIPTION

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.	DTC Detecting Condition	Trouble Area
P0500	No vehicle speed sensor signal to ECM under the following conditions : (2 trip detection logic) For A/T: (a) Park/neutral position switch is OFF (b) Vehicle is being driven For M/T: (a) Engine speed is between 2,000 rpm and 5,000 rpm (b) Vehicle is being driven at 88 km/h (55 mph) or more	<ul style="list-style-type: none"><li>• Open or short in No.1 vehicle speed sensor circuit</li><li>• No.1 vehicle speed sensor</li><li>• Combination meter</li><li>• ECM</li></ul>

## WIRING DIAGRAM



## INSPECTION PROCEDURE

- 1 Check operation of speedometer.

### CHECK:

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

### HINT:

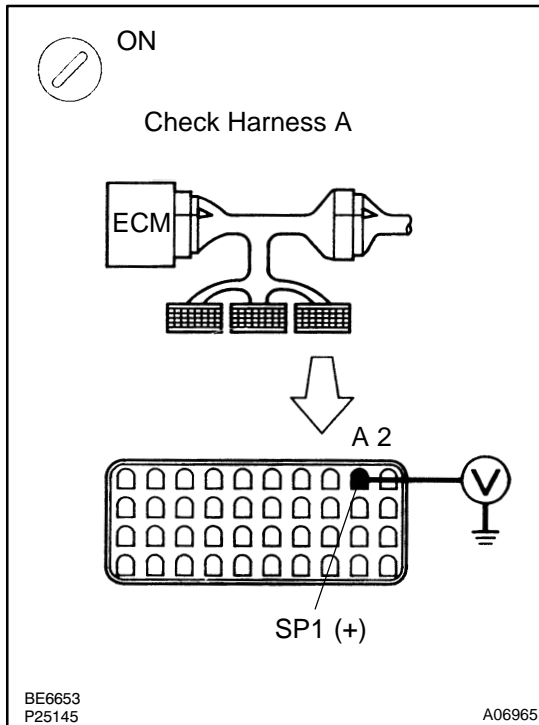
The No.1 vehicle speed sensor is operating normally if the speedometer display is normal.

NG

Check speedometer circuit.

OK

2

**Check voltage between terminal SP1 of ECM connector and body ground.****PREPARATION:**

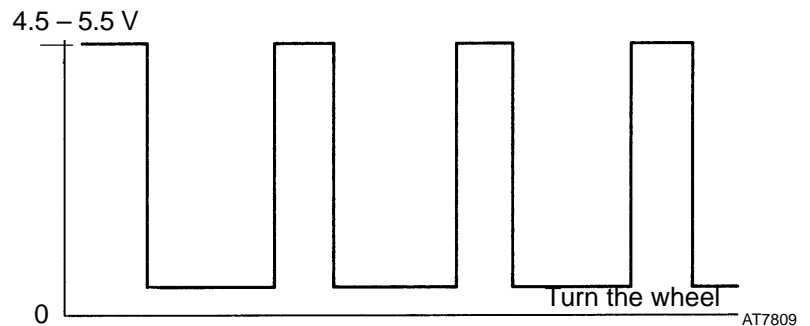
- Shift shift lever to neutral position.
- Jack up one of rear wheels.
- Connect Check Harness A (See page [DI-18](#)).
- Disconnect power steering ECU connector and cruise control ECU connector.
- Turn ignition switch ON.

**CHECK:**

Measure voltage between terminal SP1 of ECM connector and body ground when wheel is turned slowly.

**OK:**

**Voltage is generated intermittently.**

**NG**

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

**OK**

**Check and replace ECM (See page [IN-29](#)).**