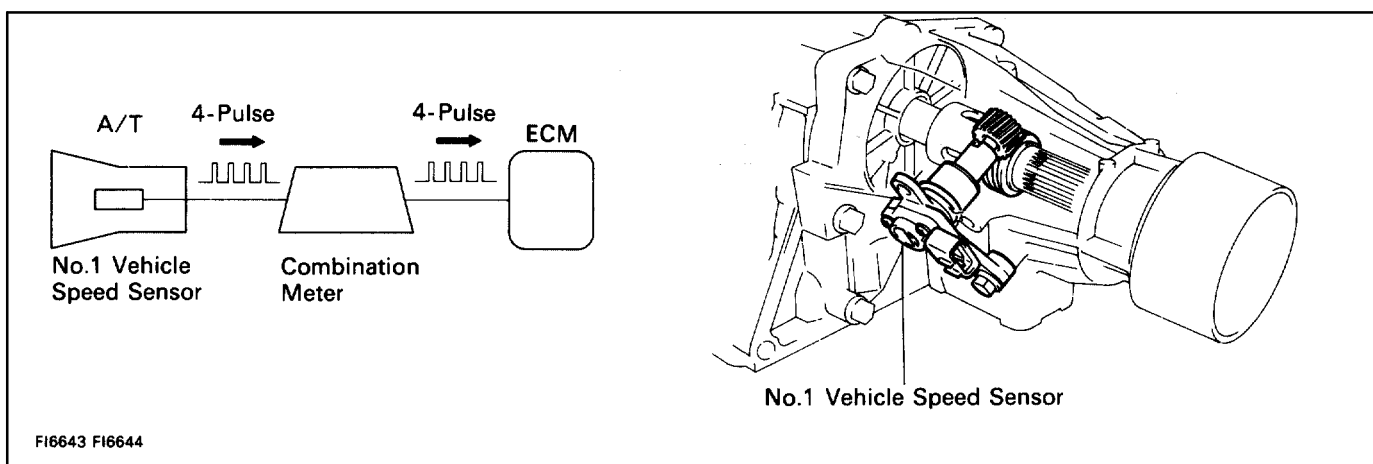


DTC	42	No. 1 Vehicle Speed Sensor Signal Circuit
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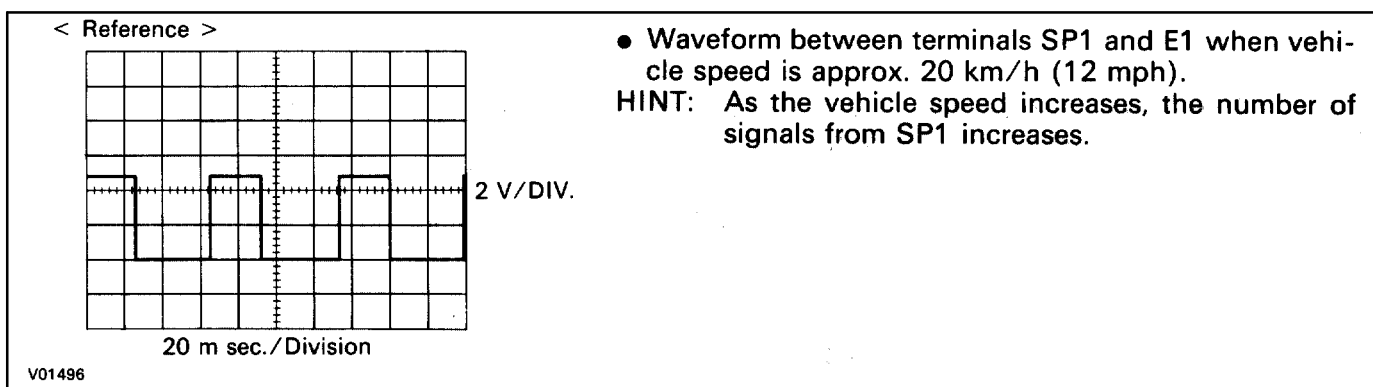
— CIRCUIT DESCRIPTION —

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.

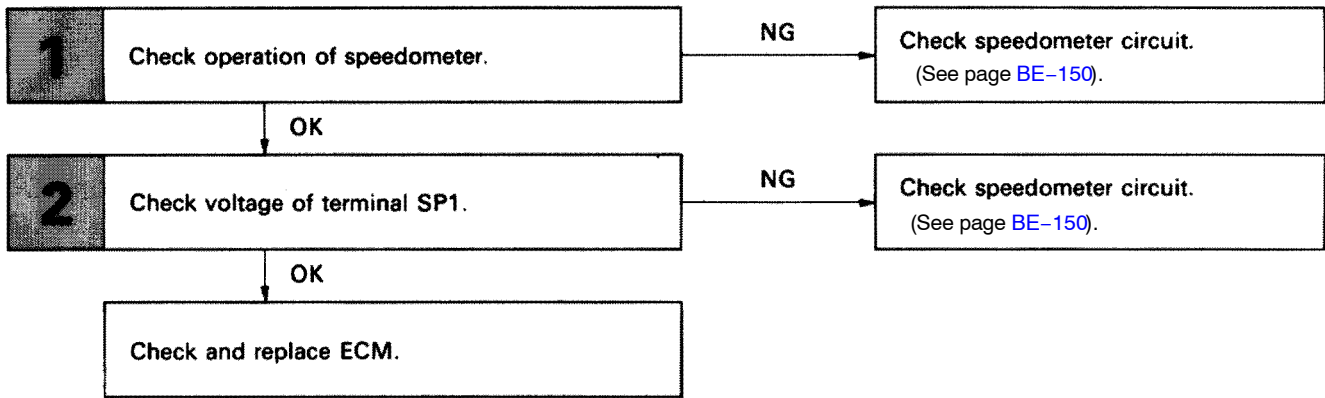


DTC No.	DTC Detecting Condition	Trouble Area
42	(1) Open or short in throttle position sensor circuit (VTA1) for 0.5 sec. or more.	<ul style="list-style-type: none"> •No. 1 vehicle speed sensor •Combination meter •Open or short in No. 1 vehicle speed sensor circuit •ECM
	(1) Open or short in sub-throttle position sensor circuit (VTA2) for 0.5 sec. or more.	

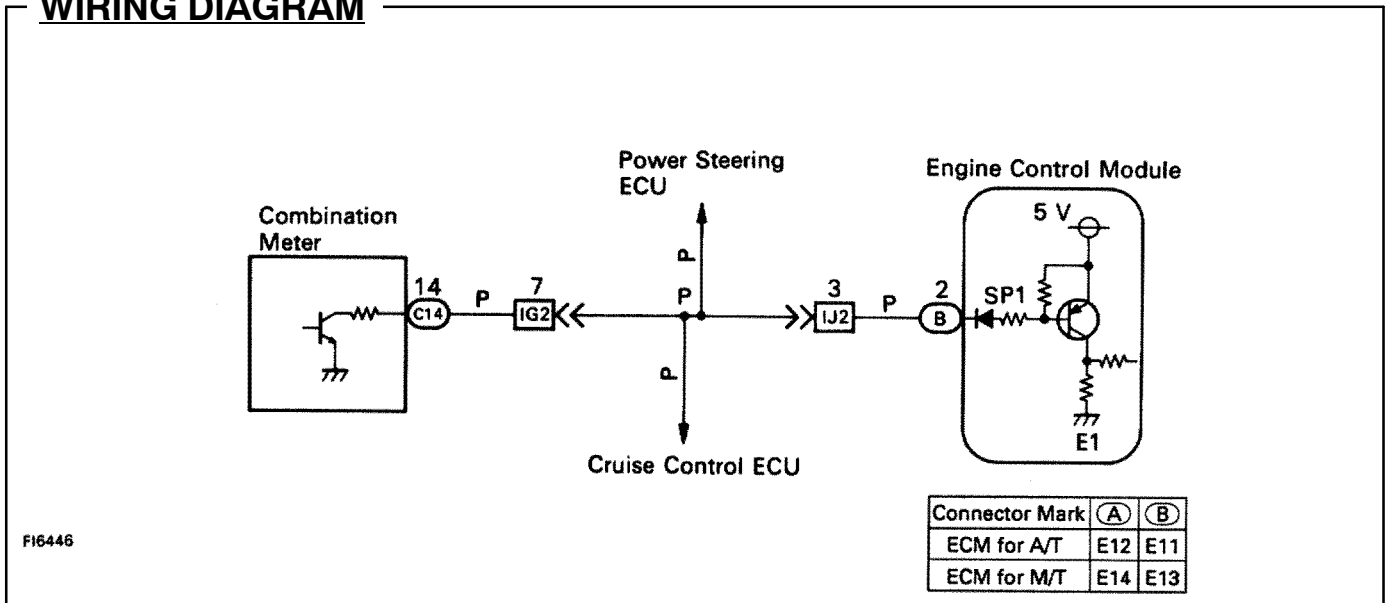
HINT: In test mode, diagnostic trouble code 42 is output when vehicle speed is 5 km/h (3 mph) or below.



DIAGNOSTIC CHART



WIRING DIAGRAM



F16446

INSPECTION PROCEDURE

1 Check operation of speedometer.

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

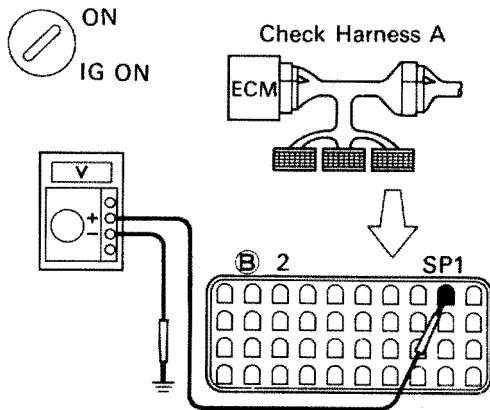
Hint The No.1 vehicle speed sensor is operating normally if the speedometer display is normal.

OK

NG

Check speedometer circuit. See combination meter troubleshooting on page [BE-150](#).

2 Check voltage between terminal SP1 of engine control module connector and body ground.

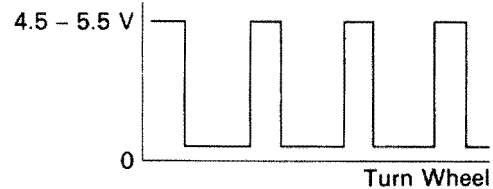


BE6653
F16504

- P**
1. Shift shift lever to neutral position.
 2. Jack up one of rear wheels.
 3. Connect Check Harness A. (See page [EG-342](#))
 4. Disconnect power steering ECU connector.
 5. Turn ignition switch ON.

C Measure voltage between terminal SP1 of engine control module connector and body ground when wheel is turned slowly.

OK Voltage: Voltage is generated intermittently.



OK

NG

Check speedometer circuit. See combination meter troubleshooting on page [BE-150](#).

Check and replace engine control module.