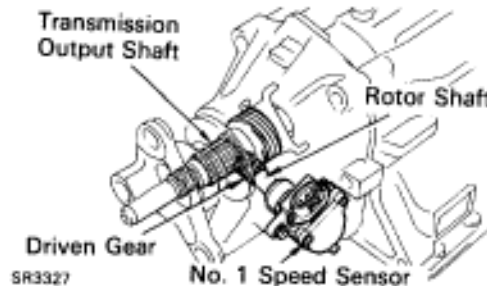
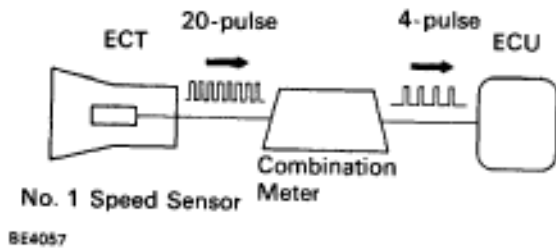


CIRCUIT INSPECTION

Diag. Code 42 No. 1 Speed Sensor Circuit (Backup Sensor)

— CIRCUIT DESCRIPTION —

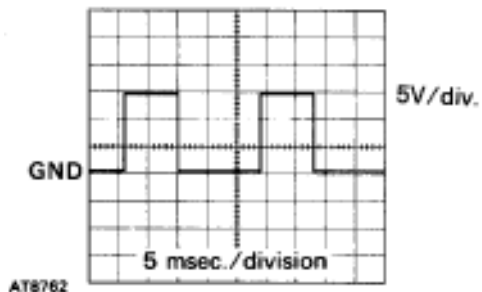
The No. 1 speed sensor outputs 20-pulse signal for every revolution of the rotor shaft, which is rotated by the transmission output shaft via the driven gear. This signal is converted in the combination meter to 4 pulse signal by the pulse conversion circuit and then sent to Engine & ECT ECU. The ECU determines the vehicle speed based on the frequency of these pulse signals. In the ECT, this sensor is used as a backup sensor in case of malfunction of the No. 2 speed sensor.



Code No.	Diagnostic Code Detecting Condition	Trouble Area
42	<p>All conditions below are detected 500 times or more continuously. (2 trip detection logic).</p> <p>(a) No No. 1 speed sensor signal in 16 No. 2 speed sensor signal pulses.</p> <p>(b) Vehicle speed: 5.6 MPH (9 km/h) or more for 4 secs. or more</p> <p>(c) Neutral start switch: OFF (Other than P or N range)</p>	<ul style="list-style-type: none"> •No. 1 speed sensor. •Combination meter. •Harness or connector between No. 1 speed sensor and ECU. •ECU

*: See page [AT-62](#)

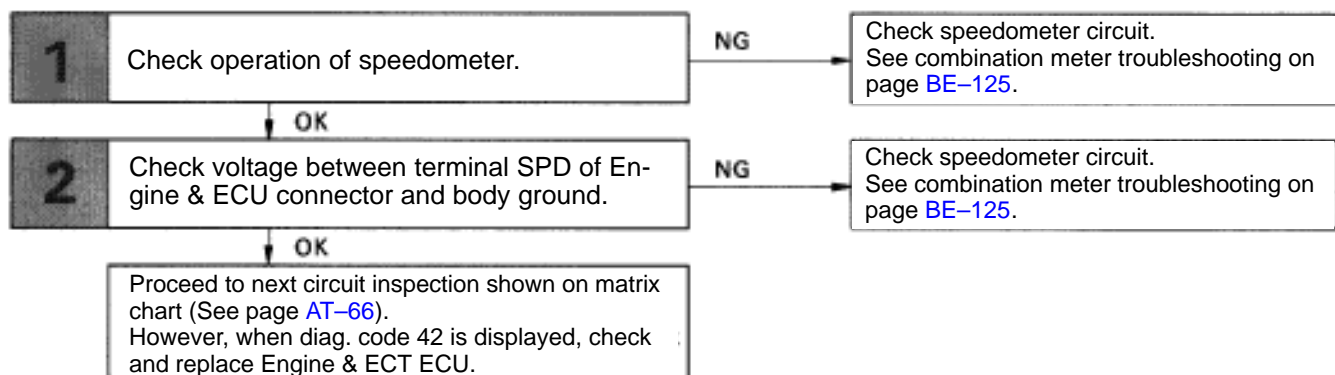
< Reference >



- Waveform between terminals SPD and E1 when vehicle speed is approx. 37 MPH (60 km/h).

HINT: The more the vehicle speed gains, the more the SPD signal produces.

— DIAGNOSTIC CHART —



INSPECTION PROCEDURE

1 Check operation of speedometer.

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

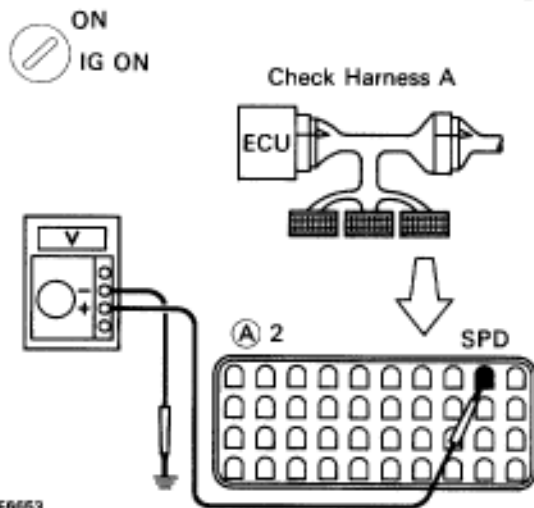
Hint The No. 1 speed sensor is operating normally if the speedometer display is normal.

OK

NG

Check speedometer circuit. See combination meter troubleshooting on page [BE-125](#).

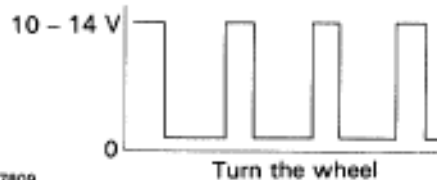
2 Check voltage between terminal SPD of Engine & ECT ECU connector and body ground.



- P**
1. Connect the Check Harness A to the ECU (See page [TR-30](#)).
 2. Shift the shift lever to the N range.
 3. Jack up the rear wheel on one side.
 4. Turn ignition switch ON.

C Measure voltage between terminal SPD of ECU connector and body ground when the rear wheel is turned slowly.

OK Voltage is generated intermittently.



OK

NG

Check speedometer circuit. See combination meter troubleshooting on page [BE-125](#).

Proceed to next circuit inspection shown on matrix chart (See page [AT-66](#)).

However, when diag. code 42 is displayed, check and replace Engine & ECT ECU.

WIRING DIAGRAM

