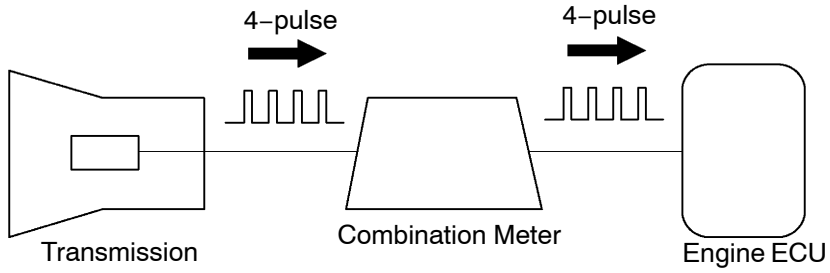
DI06D–14

DTC	42	Vehicle Speed Sensor Signal Circuit

CIRCUIT DESCRIPTION

The 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 engine ECU. The engine ECU determines the vehicle speed based on the frequency of these pulse signals.



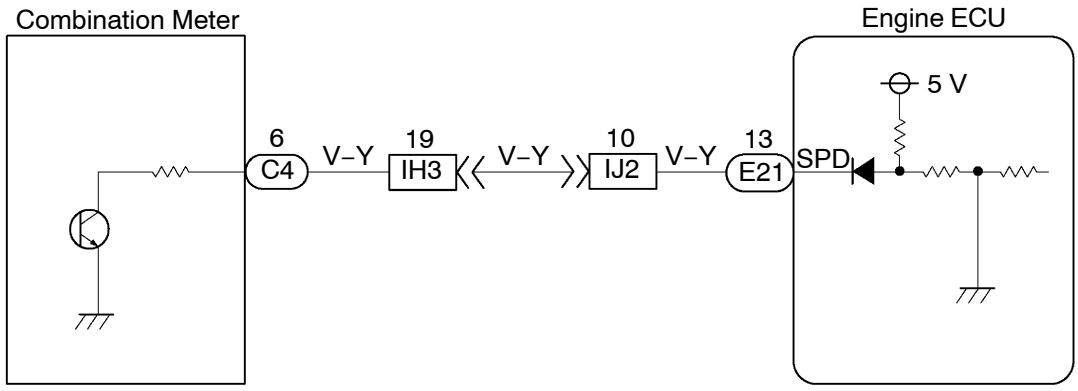
A04511

DTC No.	DTC Detecting Condition	Trouble Area
42	No vehicle speed sensor signal to ECU under conditions (a), (b) and (c): (a) Vehicle is being driven (b) Engine coolant temp. is between 60°C (140°F) and 70°C (158°F) (c) Engine speed is between 1,800 and 4,000 rpm	• Combination meter • Open or short in vehicle speed sensor circuit • Vehicle speed sensor • Engine ECU

HINT:

In test mode, DTC 42 is output when vehicle speed is 5 km/h (3 mph) or below.

WIRING DIAGRAM



Y

A11451

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.

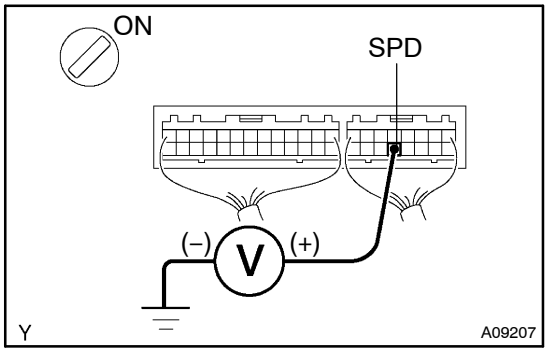
HINT:

The vehicle speed sensor is operating normally if the speedometer display is normal.

NG → **Check speedometer and cable.**

OK

2	**Check voltage between terminal SPD of engine ECU connector and body ground.**



PREPARATION:

(a) Disconnect the engine ECU from the body bracket (See page FI–36).

(b) Shift the shift lever to the neutral position.

(c) Jack up one of the front wheels.

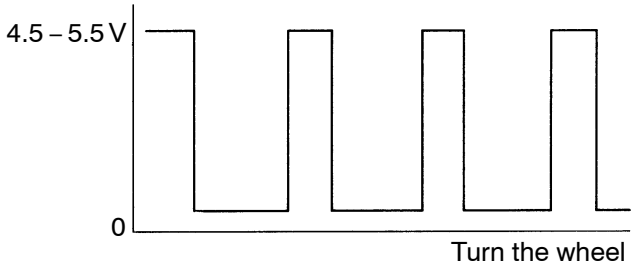
(d) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminal SPD of the engine 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 ECU**

OK

Check and replace engine ECU (See page FI–37).