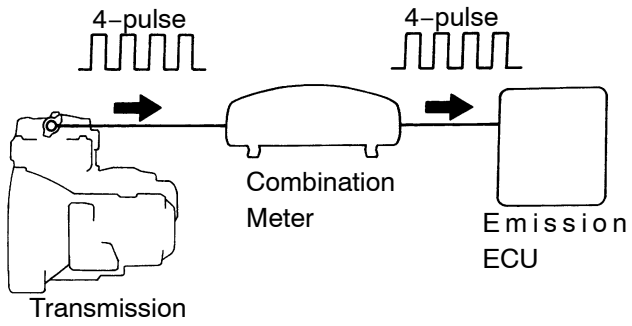
DTC	42	Vehicle Speed Sensor Signal Circuit Malfunction

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



Q00515

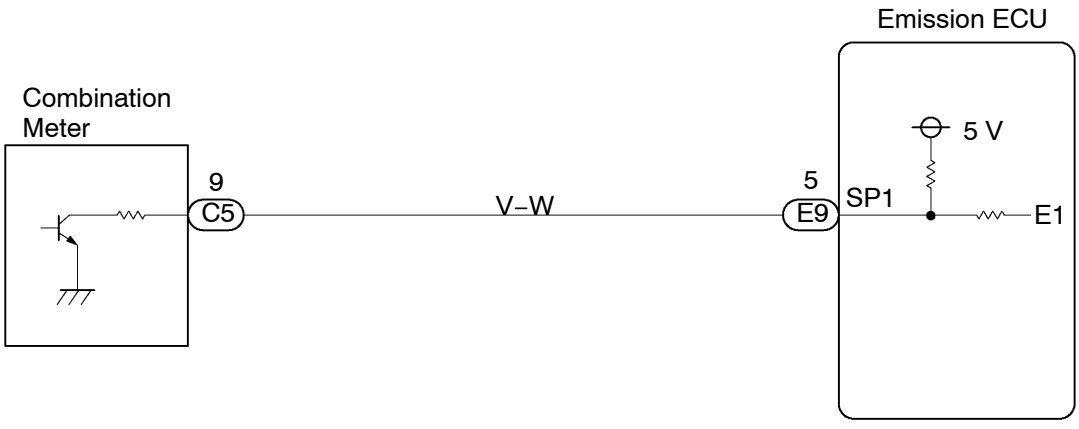
DTC No.	DTC Detecting Condition	Trouble Area
42	All conditions below are detected continuously for 8 sec. or more: (a) Vehicle speed signal: 0 km/h (0 mph) (b) Engine speed: 2,000 ~ 3,200 rpm (c) Engine coolant temp.: 80°C (176°F) or more (d) Load driving	• Open or short in vehicle speed sensor circuit • Vehicle speed sensor • Combination meter • Emission ECU

HINT:

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

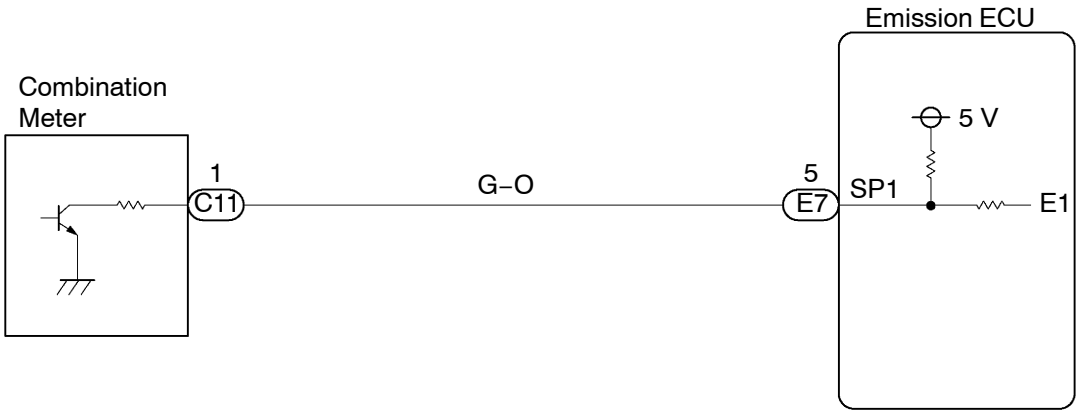
WIRING DIAGRAM

LXH Series

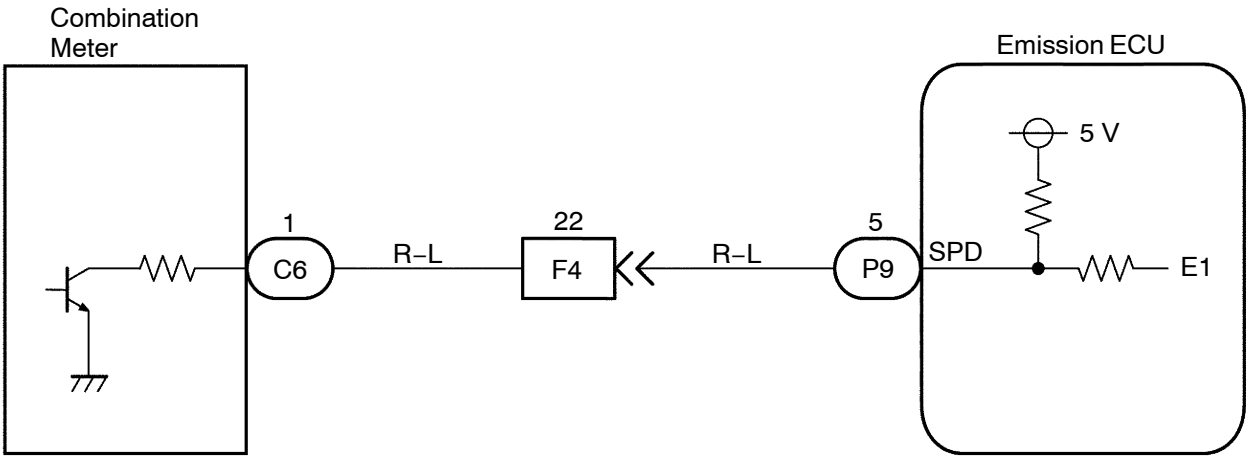


A06725

LN Series



LY Series



INSPECTION PROCEDURE

1	**Check operation of speedometer.**

CHECK:

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

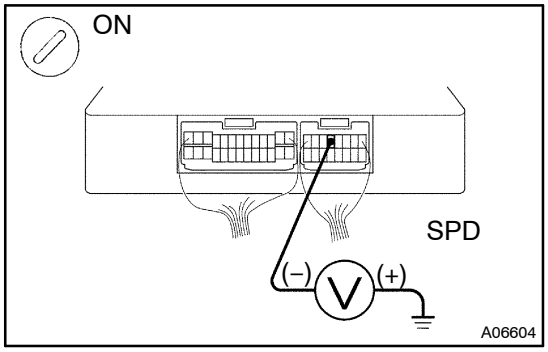
HINT:

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

NG → **Check speedmeter.**

OK

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



PREPARATION:

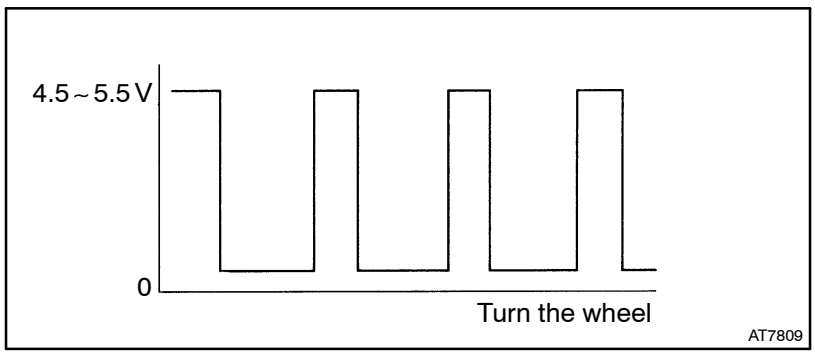
(a) Disconnect the emission ECU from the body panel (See page EC–6).
(b) Shift the shift lever to neutral.
(c) Jack up one of the rear wheels.
(d) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminal SPD of the emission ECU 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 emission ECU.**

OK

Check and replace emission ECU.