

DTC	21	Open in Vehicle Speed Sensor Circuit
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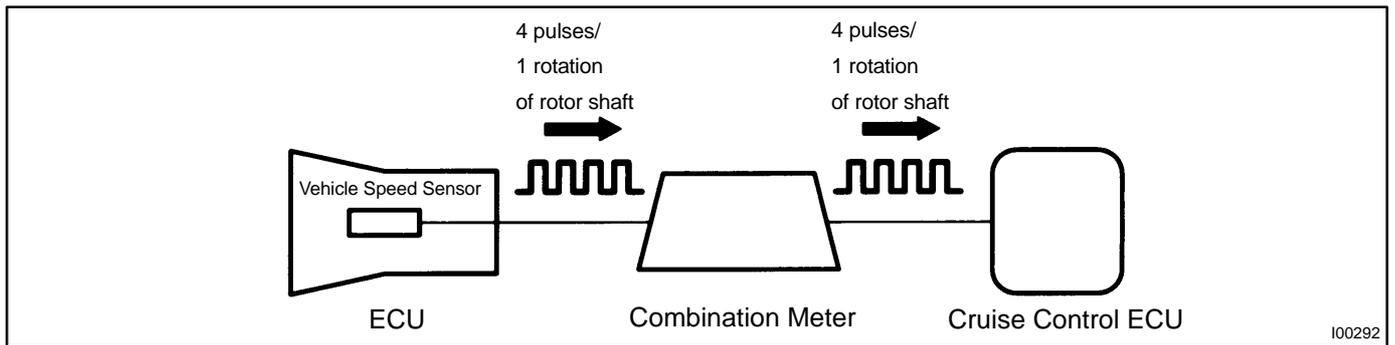
CIRCUIT DESCRIPTION

Vehicle speed sensor circuit sends a signal to the cruise control ECU as a vehicle speed signal.

The rotor shaft is driven by the gear of the transmission.

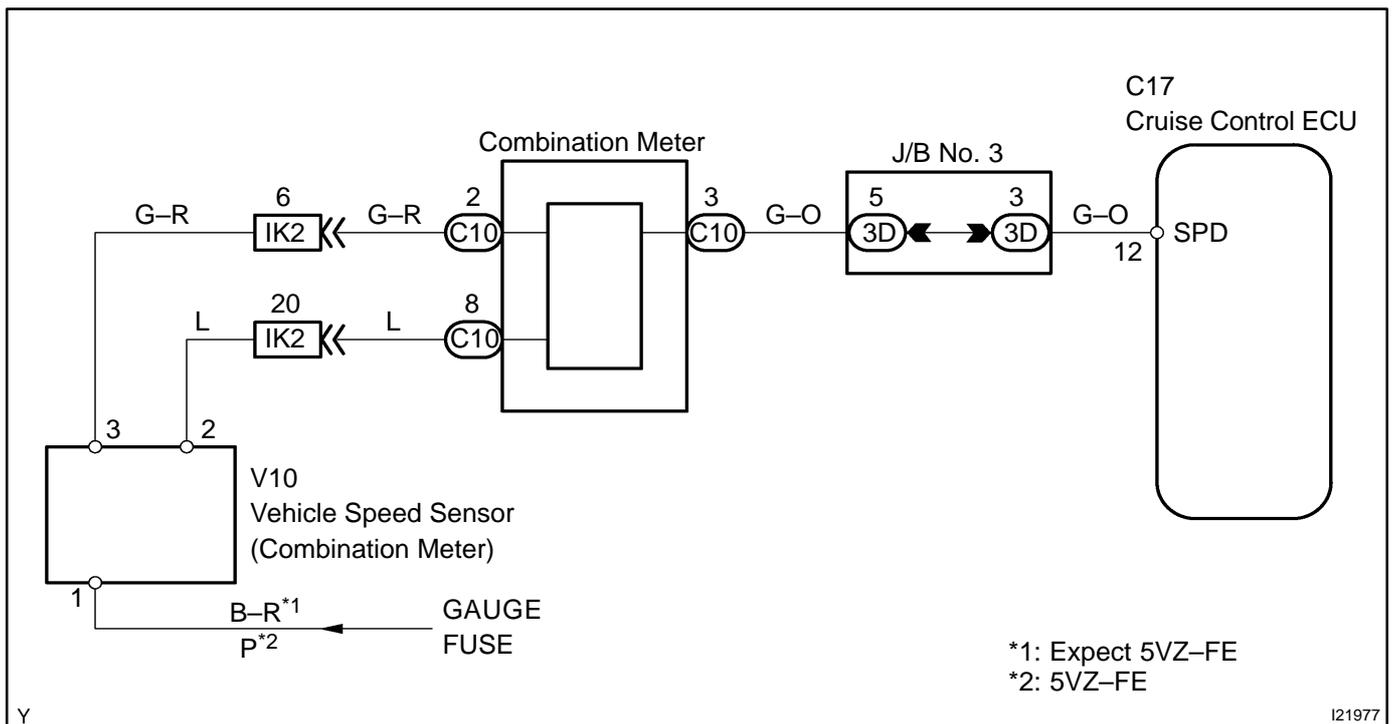
For each rotation of the shaft, the vehicle speed sensor sends a 4-pulse signal through the combination meter to the cruise control ECU (See the following illustration).

This signal is converted inside the combination meter and sent as a 4-pulse signal to the cruise control ECU. The ECU calculates the vehicle speed from this pulse frequency.



DTC No.	DTC Detection Condition	Trouble Area
21	Speed signal is not input to the cruise control ECU while cruise control is set	<ul style="list-style-type: none"> • Combination meter • Harness or connector between cruise control ECU and combination meter, and combination meter and vehicle speed sensor • Vehicle speed sensor • Cruise control ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Input signal check.
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Input Signal	Indicator Light Blinking Pattern
Drive at about 40 km/h (25 mph) or below	Light ON  OFF 
Drive at about 40 km/h (25 mph) or higher	Light ON  OFF 

CHECK:

- (a) See the input signal check on page [DI-721](#).
- (b) Check the indicator light operation when driving with vehicle speed of above 40 km/h (25 mph), and with vehicle speed of below 40 km/h (25 mph).

OK:

Vehicle speed above 40 km/h (25 mph):
 Indicator light blinks

Vehicle speed below 40 km/h (25 mph):
 Indicator light stays on

OK

Check and replace cruise control ECU (See page [IN-28](#)).

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2	Check speedometer circuit (See combination meter troubleshooting on page BE-2).
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Repair or replace harness, connector or combination meter assembly.

OK

3	Check harness and connector between cruise control ECU and combination meter, and combination meter and vehicle speed sensor (See page IN-28).
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Repair or replace harness or connector.

OK

4	Check vehicle speed sensor (See page BE-39).
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NG	Replace vehicle speed sensor.
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OK

Check and replace cruise control ECU (See page IN-28).
