

DTC	21	OPEN VEHICLE SPEED SENSOR CIRCUIT
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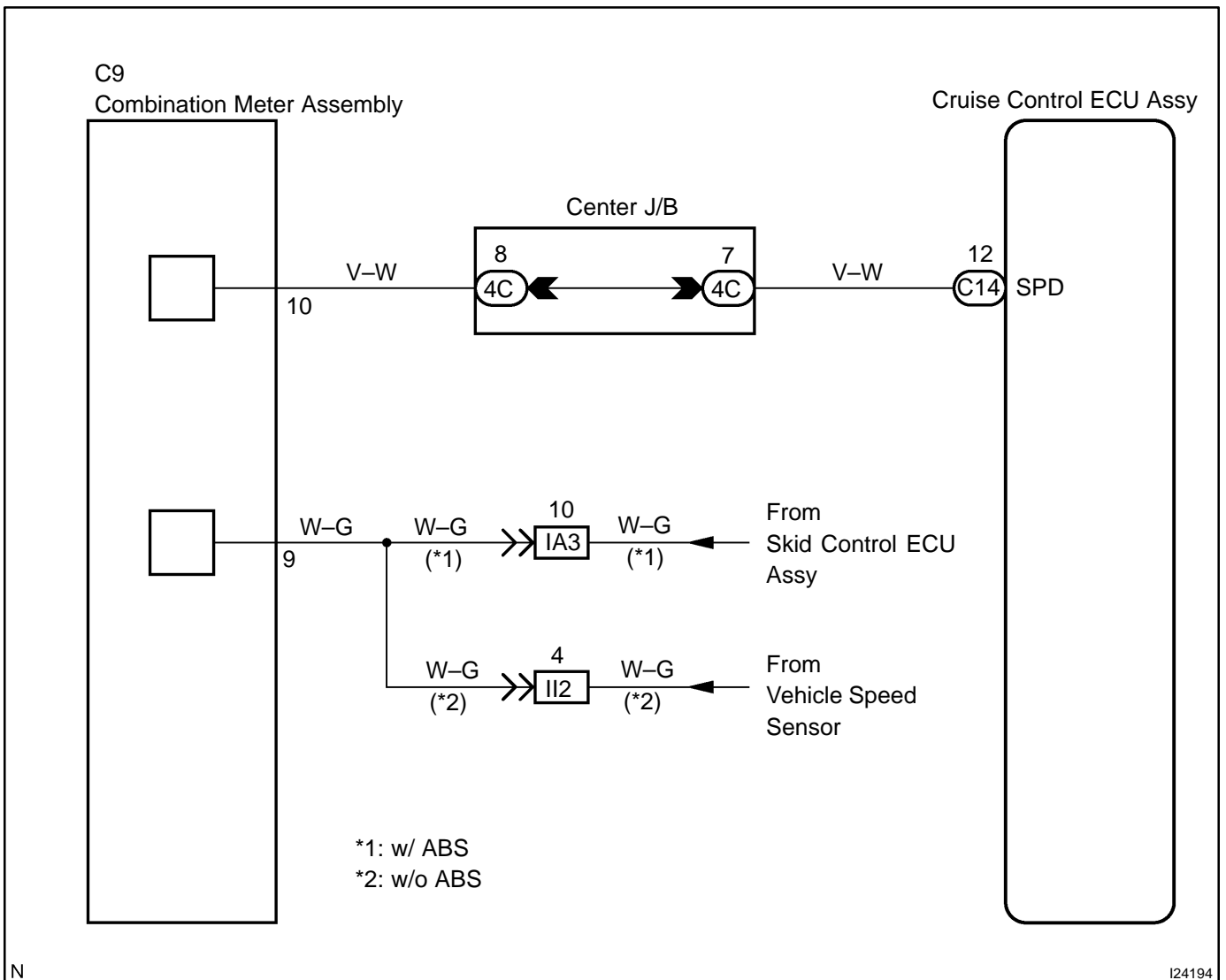
DTC	23	VEHICLE SPEED SIGNAL ABNORMAL
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CIRCUIT DESCRIPTION

The vehicle speed sensor circuit is sent to cruise control ECU assy as a vehicle speed signal. For each rotation of the shaft, the vehicle speed sensor sends a signal through the combination meter assembly to the cruise control ECU assy (See the following chart). The cruise control ECU assy calculates the vehicle speed from this pulse frequency.





DTC No.	DTC Detecting Condition	Trouble Area
21	• Speed signal is not input to the cruise control ECU assy while cruise control is set.	<ul style="list-style-type: none"> • Combination meter assembly • Vehicle speed sensor • Vehicle speed sensor circuit • Cruise control ECU assy
23	• Vehicle speed sensor pulse is abnormal.	<ul style="list-style-type: none"> • Vehicle speed sensor • Cruise control ECU assy

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INPUT SIGNAL CHECK

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 over	Light ON  OFF 

- (a) See input signal check on page 05-745.
- (b) Check indicator light operation when driving with vehicle speed above 40 km/h (25 mph), and with vehicle speed 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 → PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05-754)

NG

2 CHECK SPEEDOMETER CIRCUIT (See page 05-645)

NG → REPAIR OR REPLACE HARNESS, CONNECTOR OR COMBINATION METER ASSEMBLY

OK

3 CHECK HARNESS AND CONNECTOR (BETWEEN CRUISE CONTROL ECU ASSY AND COMBINATION METER ASSEMBLY)

- (a) Check for open and short circuit in harness and connector between cruise control ECU assy and combination meter assembly (See page 01-30).

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

CHECK AND REPLACE CRUISE CONTROL ECU ASSY (See page 01-30)