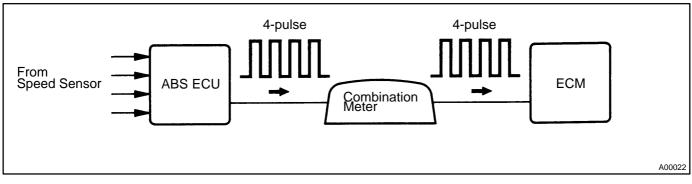
DTC

P0500

Vehicle Speed Sensor Malfunction

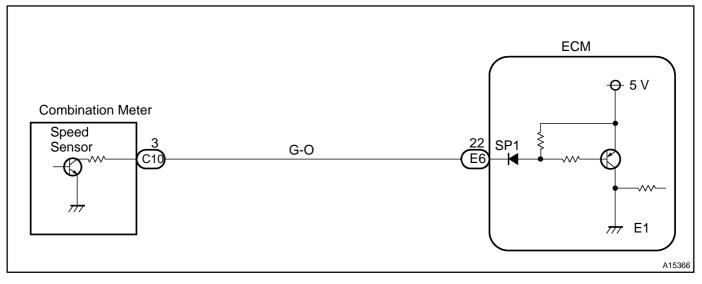
CIRCUIT DESCRIPTION

The speed sensor for ABS detects the wheel speed and sends the appropriate signals to the ABS ECU. The ECU converts these signals into a 4-pulse signal and outputs it to the combination meter. 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 ECM. The ECM determines the vehicle speed based on the frequency of these pulse signals.



DTC No.	DTC Detection Condition	Trouble Area
	No speed sensor signal to ECM under following conditions:	
	(2 trip detection logic)	Open or short in speed signal circuit
	For A/T:	Combination meter
P0500	(a) Park/neutral position switch is OFF	• ECM
	(b) Vehicle is being driven	Open or short in speed sensor circuit for ABS
	For M/T:	• ABS ECU
	(a) Engine speed is between 1,800 rpm and 3,500 rpm	

WIRING DIAGRAM



DI0SB-10

INSPECTION PROCEDURE

HINT:

Read freeze frame data using TOYOTA hand-held tester or OBD II scan tool. Because freeze frame records the engine conditions when the malfunction is detected. When troubleshooting, it is useful for determining whether the vehicle was running or stopped, the engine was warmed up or not, the air-fuel ratio was lean or rich, etc. at the time of the malfunction.

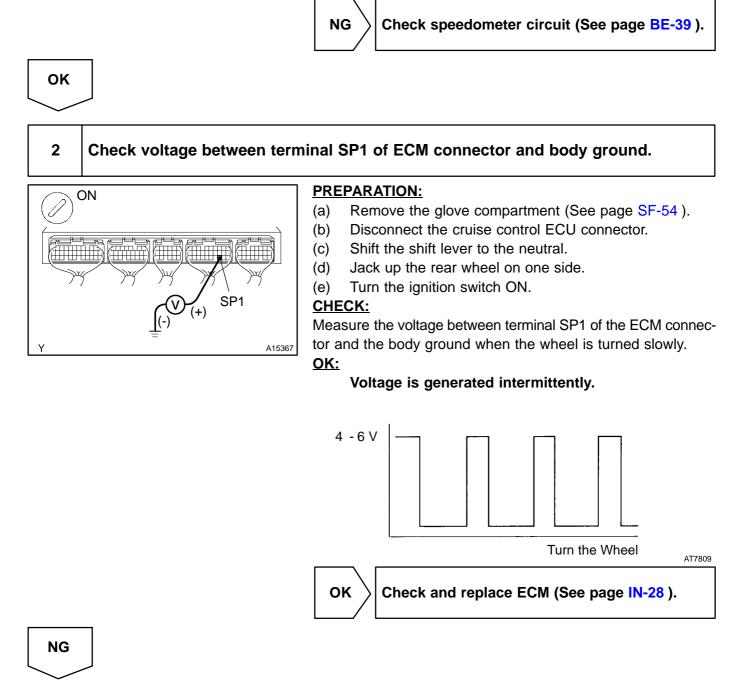
1

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 operates normally if the speedometer display is normal.



2001 TOYOTA TACOMA (RM835U)

3	Check for open or short in harness and connector between combination meter and ECM (See page IN-28).	
	OK Check and replace ECM (See page IN-28).	
NG		

Repair or replace harness or connector.

DI-235