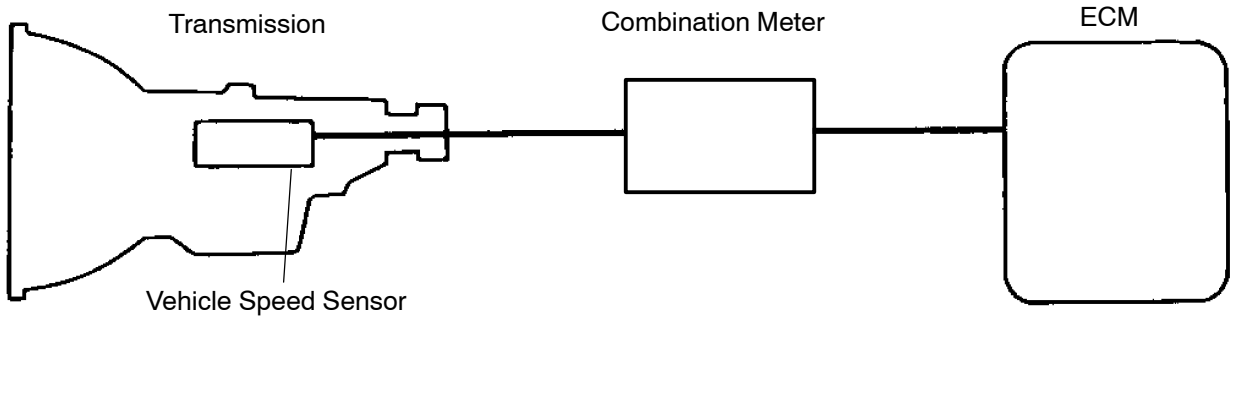
DTC	P0500/21	VEHICLE SPEED SENSOR CIRCUIT

DTC	P0500/23	VEHICLE SPEED SENSOR CIRCUIT

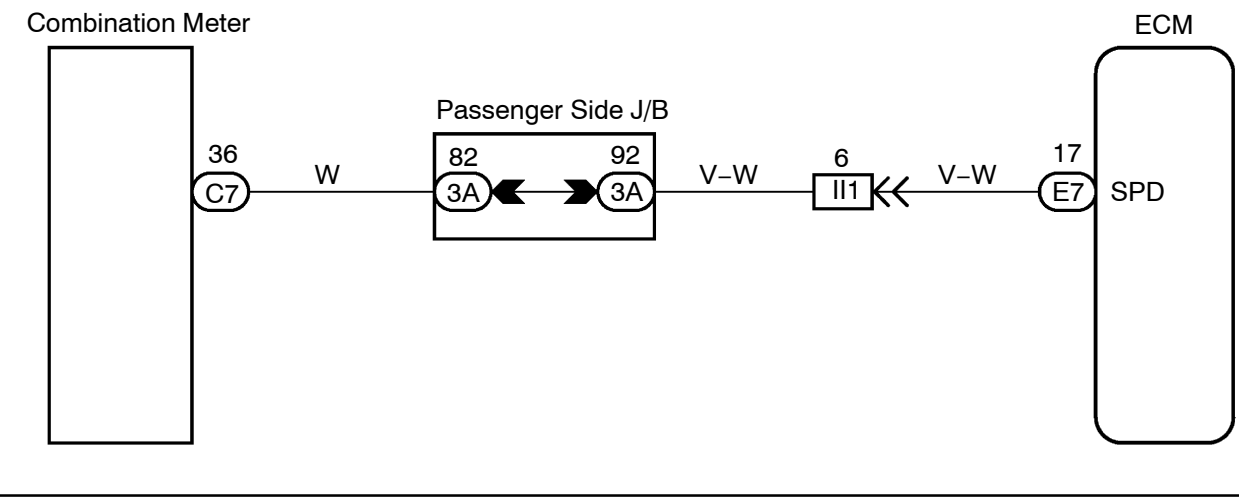
CIRCUIT DESCRIPTION

The vehicle speed sensor detects the rotation speed of the transmission output shaft and sends signals to the ECM. The ECM determines the vehicle speed based on these signals. An AC voltage is generated in the vehicle speed sensor coil as the rotor mounted on the output shaft rotates, and this voltage is sent to the ECM.



DTC No.	DTC Detecting Condition	Trouble Area
P0500/21,23	Speed signal is not input to the ECM while cruise control is set.	• Combination meter • Wire harness or connector between ECM and vehicle speed sensor • Vehicle speed sensor • ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

1 READ VALUE OF HAND–HELD TESTER

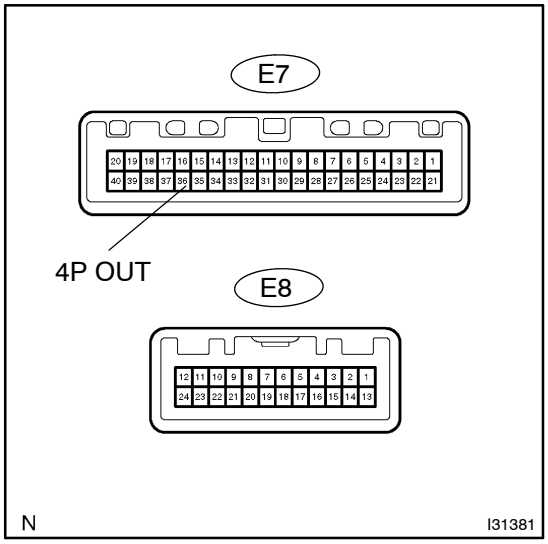
(a) Connect the hand–held tester to the DLC3.
(b) Turn the ignition switch ON and push the hand–held tester main SW ON.
(c) Select the item "VEHICLE SPD" in the DATA LIST and read its value displayed on the hand–held tester.
OK: Actual vehile speed

OK	**PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOM TABLE (See page 05–1298)**

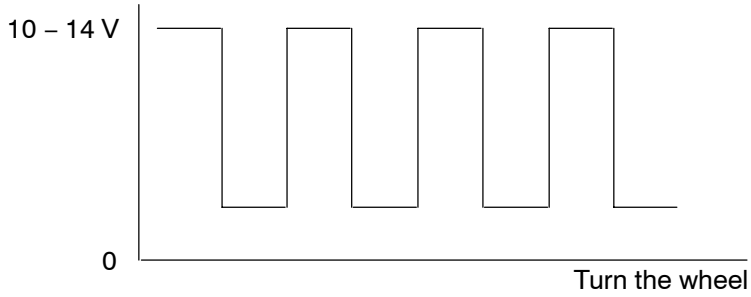
OK	**PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOM TABLE (See page 05–1298)**

NG

2 INSPECT COMBINATION METER ASSY



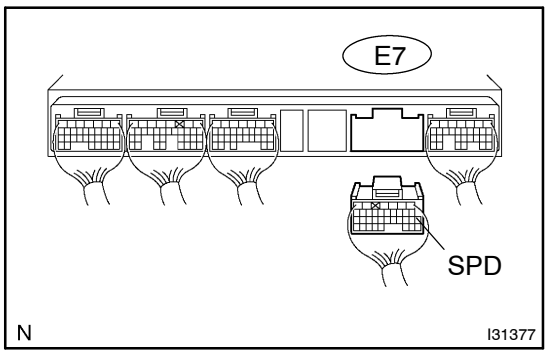
(a) Remove the combination meter with connectors still connected.
(b) Shift the shift lever to neutral.
(c) Jack up one of the rear wheel.
(d) Turn the ignition switch ON.
(e) Measure voltage between terminal 4P OUT of combination meter and body ground when the rear wheels are turned slowly.
Voltage is generated intermittently.



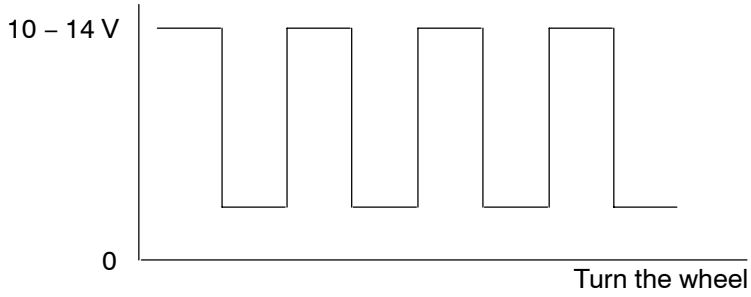
NG	**CHECK AND REPLACE COMBINATION METER ASSY**

OK

3	CHECK HARNESS AND CONNECTOR



(a) Shift the shift lever to neutral.
(b) Jack up the rear wheel on one side.
(c) Disconnect the E7 connector from the ECM.
(d) Measure the voltage between terminal SPD of the ECM connector and body ground when the wheel is turned slowly.
Voltage is generated intermittently.



OK → **CHECK AND REPLACE ECM(See page 01–31)**

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR