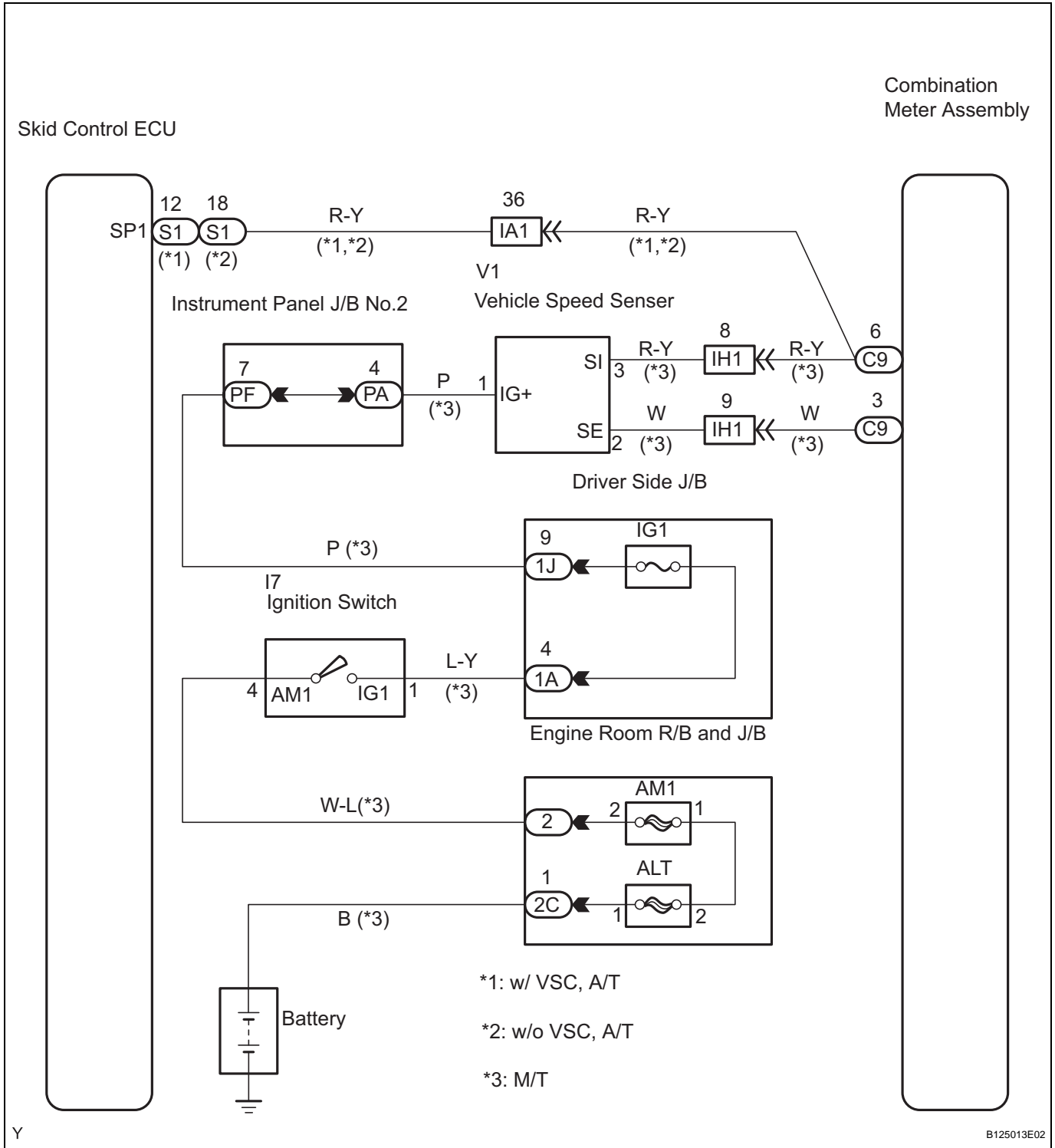


Speedometer Malfunction

WIRING DIAGRAM



1 READ VALUE OF INTELLIGENT TESTER (VEHICLE SPEED)

- (a) Connect an intelligent tester to the DLC3.
- (b) Turn the ignition switch to ON.

- (c) Turn the tester ON.
- (d) On the tester, select the following menu items:
DIAGNOSIS / ENHANCED OBD II / DATA LIST / ALL / VEHICLE SPD.
- (e) Read the value displayed on the tester.

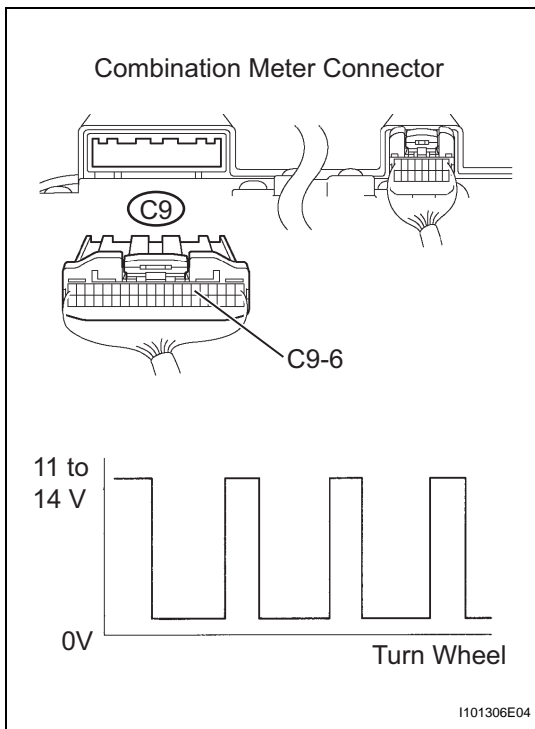
OK:

Vehicle speed displayed on the tester is almost the same as the actual vehicle speed.

NG → **GO TO BRAKE CONTROL SYSTEM**

OK

2 INSPECT COMBINATION METER ASSEMBLY



- (a) Shift the transmission gear selector lever to the neutral position.
- (b) Jack up the vehicle.
- (c) Turn the ignition switch to ON.
- (d) Check the voltage while the wheel is turning slowly.

Standard Voltage

Tester Connection	Specified Condition
C9-6 - Body ground	Voltage generated intermittently

HINT:

The output voltage should fluctuate up and down as shown in the diagram on the left when the wheel is turning slowly.

Result

Result	Proceed to
As shown in the illustration	A
Different from the illustration (A/T)	B
Different from the illustration (M/T)	C

A → **REPLACE COMBINATION METER ASSEMBLY**

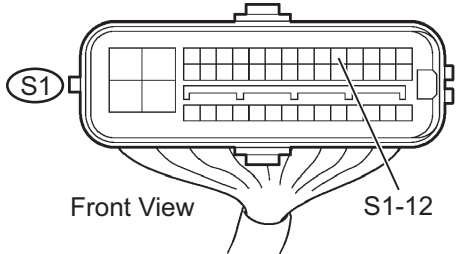
C → **Go to step 4**

B

3 CHECK HARNESS AND CONNECTOR (SKID CONTROL ECU - COMBINATION METER ASSEMBLY)

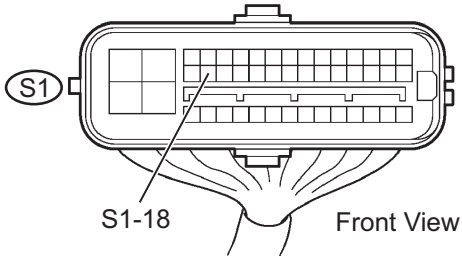
Wire Harness Side (w/ VSC):

Skid Control ECU Connector

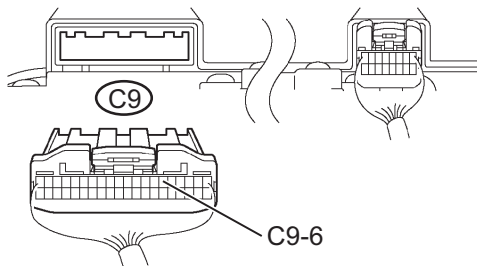


Wire Harness Side (w/o VSC):

Skid Control ECU Connector



Combination Meter Connector



I101307E01

- (a) Disconnect the C9 combination meter connector.
- (b) With VSC: Disconnect the S1 skid control ECU connector.
- (c) Without VSC: Disconnect the S1 combination meter connector.
- (d) Measure the resistance.

**Standard Resistance:
With VSC**

Tester Connection	Specified Condition
S1-12 - C9-6	Below 1 Ω
S1-12 or C9-6 - Body ground	10 kΩ or higher

Without VSC

Tester Connection	Specified Condition
S1-18 - C9-6	Below 1 Ω
S1-18 or C9-6 - Body ground	10 kΩ or higher

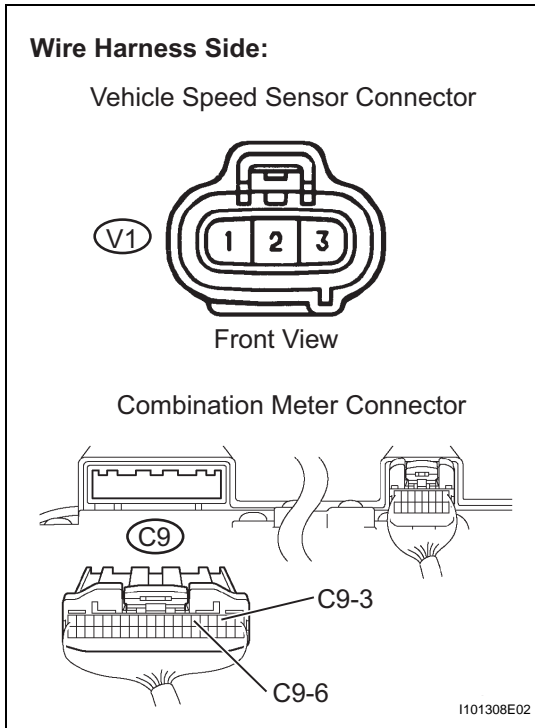
- (e) Reconnect the skid control ECU connector.
- (f) Reconnect the combination meter connector.

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

GO TO BRAKE CONTROL SYSTEM

4 CHECK HARNESS AND CONNECTOR (VEHICLE SPEED SENSOR - COMBINATION METER ASSEMBLY)



- (a) Disconnect the C9 combination meter connector.
- (b) Disconnect the V1 vehicle speed sensor connector.
- (c) Measure the resistance.

Standard Resistance

Tester Connection	Specified Condition
C9-6 - V1-3	Below 1 Ω
C9-3 - V1-2	Below 1 Ω
C9-6 or V1-3 - Body ground	10 kΩ or higher
C9-6 or V1-3 - Body ground	10 kΩ or higher

- (d) Measure the voltage.

Standard Voltage

Tester Connection	Condition	Specified Condition
V1-1 - Body ground	Ignition switch OFF → ON	Below 1 V → 10 to 14 V

- (e) Reconnect the vehicle speed sensor connector.
- (f) Reconnect the combination meter connector.

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE COMBINATION METER ASSEMBLY