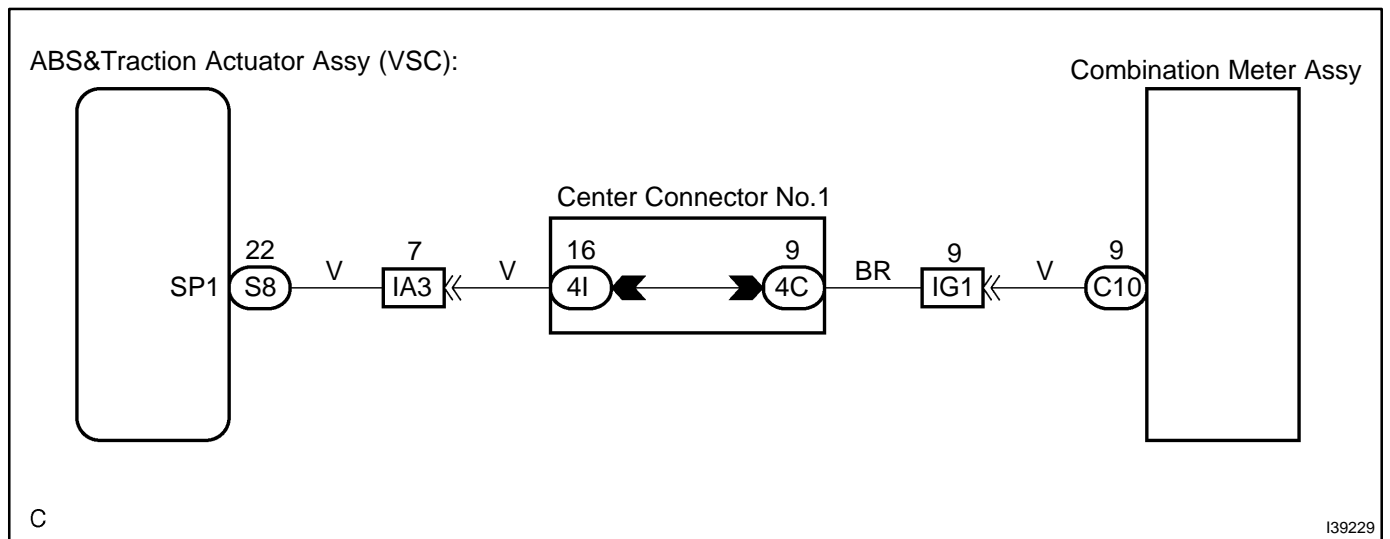


MALFUNCTION IN SPEEDOMETER

WIRING DIAGRAM



INSPECTION PROCEDURE

1 READ VALUE OF HAND-HELD TESTER(VEHICLE SPEED SIGNAL)

(a) Operate the hand-held tester according to the steps on the display and select the "DATA LIST".

ABS:

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
(FR/FL/RR/RL) SPD	Vehicle speed / Min.: 0 km/h (0 mph), Max.: 326 km/h (202 mph)	Almost same as actual speed (When driving)	-

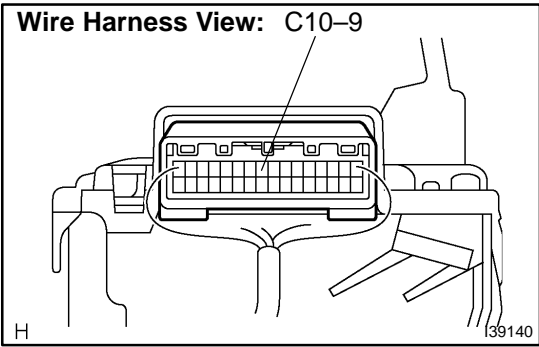
OK:

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

NG → **GO TO BRAKE CONTROL SYSTEM (SEE PAGE 05-952)**

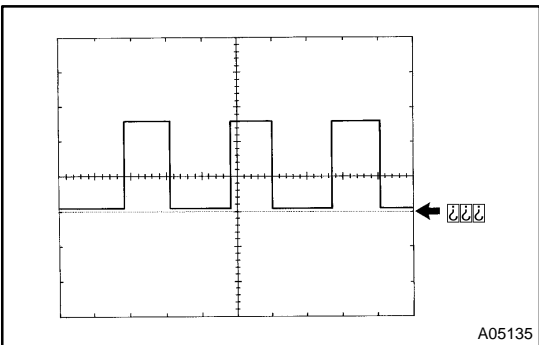
OK

2 INSPECT COMBINATION METER ASSY



INSPECTION USING OSCILLOSCOPE

- (a) Check the input signal waveform.
 - (1) Remove the combination meter assy.
 - (2) Connect the oscilloscope to the terminals C10-9 and body ground.



- (3) Check the signal waveform according to the condition (s) in the table below.

Item	Condition
Tool setting	5 V/DIV, 20 ms/DIV
Vehicle condition	Driving at approx. 20 Km/h (12 mph)

OK:

As shown in the illustration

HINT:

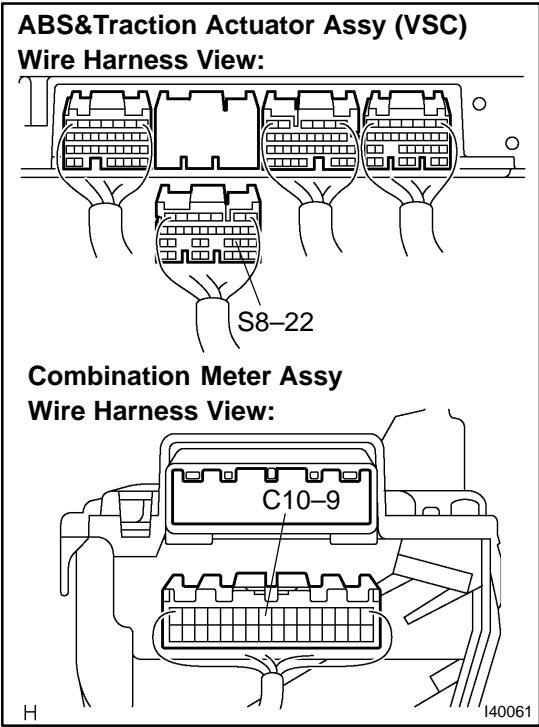
As vehicle speed increases, the cycle of the signal waveform narrows.

NG → **Go to step 3**

OK

REPLACE COMBINATION METER ASSY(SEE PAGE 71-19)

3 CHECK HARNESS AND CONNECTOR(ABS&TRACTION ACTUATOR ASSY(VSC) – COMBINATION METER ASSY)(SEE PAGE 01-37)



- (a) Disconnect the C10 and S8 connectors.
- (b) Measure the resistance according to the value(s) in the table below.

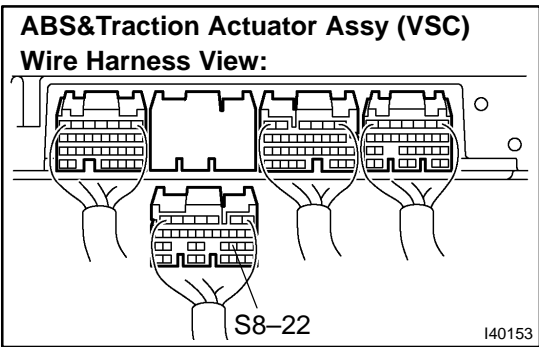
Standard:

Tester Connection	Condition	Specified Condition
C10-9 – S8-22	Always	Below 1 Ω
C10-9 – Body ground	Always	10 kΩ or higher

NG REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

4 INSPECT ABS&TRACTION ACTUATOR ASSY(VSC)



- (a) Disconnect the S8 connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Condition	Specified Condition
S8-22 – Body ground	Power switch ON (IG)	10 to 14 V

NG REPLACE COMBINATION METER ASSY (SEE PAGE 71-19)

OK

GO TO BRAKE CONTROL SYSTEM(SEE PAGE 05-952)