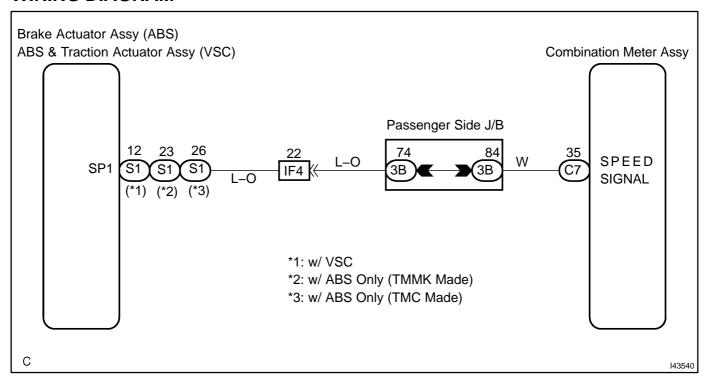
MALFUNCTION IN SPEEDOMETER

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 "DATA LIST". **ABS:**

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
(FR/FL/RR/RL) Wheel Speed	Vehicle speed/Min.: 0 km/h (0 mph), Max.: 255 km/h (158 mph)	Almost same as actual speed (When driving)	-

OK:

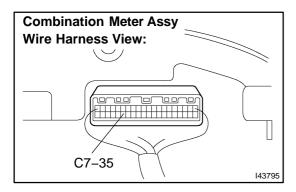
Vehicle speed displayed on the tester is almost the same as the actual vehicle speed.

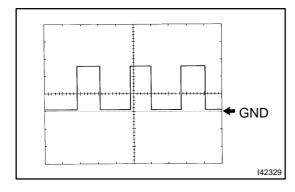
NG



OK

2 INSPECT COMBINATION METER ASSY





INSPECTION USING OSCILLOSCOPE

- (a) Remove the combination meter assy with the connectors still connected.
- (b) Connect the oscilloscope to terminal C7-35 and body ground.
- (c) Start the engine.
- (d) Check the signal wave form 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 the vehicle speed increases, the cycle of the signal wave form narrows.

Result:

ОК	Α
NG (w/ VSC)	В
NG (w/ ABS only)	С

B Go to step 3

C Go to step 5

A

3

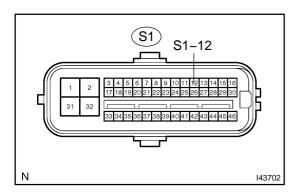
REPLACE COMBINATION METER ASSY (SEE PAGE71-29)

CHECK HARNESS OR CONNECTOR(BETWEEN ABS & TRACTION ACTUATOR ASSY (VSC) AND COMBINATION METER ASSY)

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

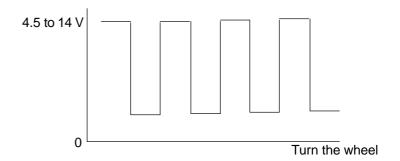
4 INSPECT ABS&TRACTION ACTUATOR ASSY(VSC)



- (a) Shift the shift lever to neutral.
- (b) Jack up either of the front wheels.
- (c) Turn the ignition switch to ON.
- (d) Measure the voltage between terminal S1–12 of the VSC & traction actuator assy and body ground when the front wheel is turned slowly.

OK:

Voltage is generated intermittently.



NG `

REPLACE ABS&TRACTION ASSY(VSC) (SEE PAGE 05-983)

ACTUATOR

OR

OK

REPLACE COMBINATION METER ASSY (SEE PAGE 71-29)

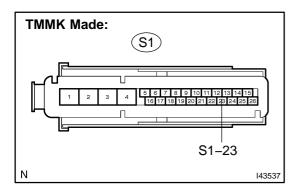
5 CHECK HARNESS OR CONNECTOR(BETWEEN BRAKE ACTUATOR ASSY (ABS) AND COMBINATION METER ASSY)

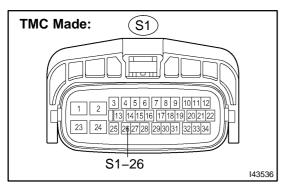
NG

REPAIR OR REPLACE HARNESS CONNECTOR

OK

6 INSPECT BRAKE ACTUATOR ASSY(ABS)





- (a) Shift the shift lever to neutral.
- (b) Jack up either of the front wheels.
- (c) Turn the ignition switch to ON.
- (d) TMMK Made:

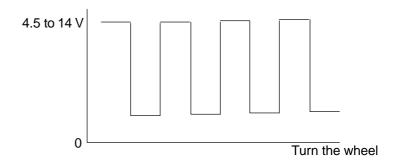
Measure voltage between terminal S1-23 of the brake actuator assy (ABS) and body ground when the front wheel turned slowly.

(e) TMC Made:

Measure the voltage between terminal S1-26 of the brake actuator assy (ABS) and body ground when the front wheel is turned slowly.

OK:

Voltage is generated intermittently.



NG \

REPLACE BRAKE ACTUATOR ASSY(ABS) (SEE PAGE 05-870(w/ ABS (TMMK MADE), 05-930(w/ ABS (TMC MADE))

OK

REPLACE COMBINATION METER ASSY (SEE PAGE 71-29)