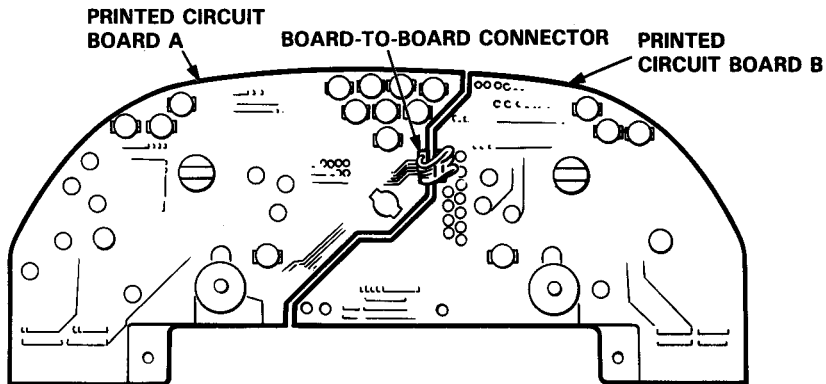


# Speedometer/Trip Meter/Odometer

## Troubleshooting

NOTE: The numbers in the table show the troubleshooting sequence.

Item to be inspected	Blown No. 5 (15 A) fuse (In the under-dash fuse box)	Speedometer	Odometer	Trip meter	Printed circuit board A	Printed circuit board B	Vehicle speed sensor (VSS) input test	Vehicle speed sensor (VSS) is not installed correctly	Disconnected board-to-board connector	Poor ground	Open circuit, loose or disconnected terminals
Speedometer works, but deflection error is great.					2			1			
Odometer and trip meter work, but speedometer does not.		1			2						
Speedometer and trip meter work, but odometer does not.			2		4	3			1		
Speedometer and odometer work, but trip meter does not.				1	2						
Speedometer works, but odometer and trip meter do not.					1						
Speedometer, odometer and trip meter do not work.	1				3		2			G401 G402 G403	YEL



View from the back of the gauge assembly



NOTE: A short to ground in the ORN wire can be caused by a short in any component connected to it.

### Vehicle Speed Sensor (VSS) Test

Speedometer does not work.

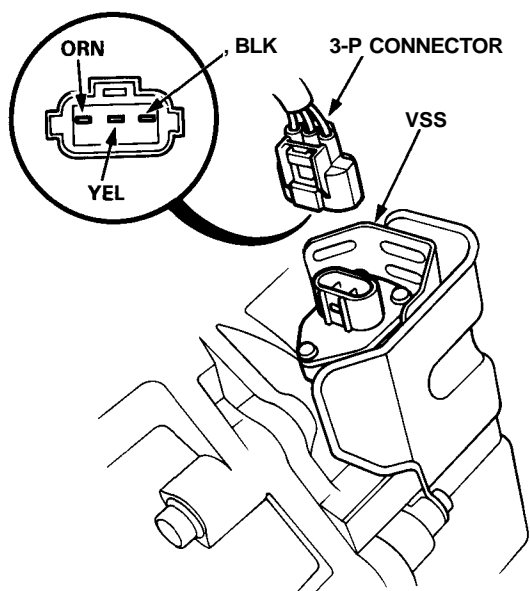
Inspect No. 5 (15 A) fuse in the under-dash fuse box before testing.

Disconnect the 3-P connector from the VSS.

Turn the ignition switch ON (II).

Measure voltage between the YEL wire terminal and the BLK wire terminal in the harness side of the 3-P connector.

View from terminal side



Is there battery voltage?

YES

NO

Check for continuity between the BLK terminal and body ground.

Measure voltage between the ORN and the BLK wire terminals.

Is there continuity?

YES

NO

Repair open between the VSS and ground G101.

Repair open in the YEL wire between the VSS and under-dash fuse box.

Is there about 5 V?

YES

NO

Repair open in the ORN wire or short to body ground.

(To page 23-132)

(cont'd)

# Speedometer/Trip Meter/Odometer

## Troubleshooting (cont'd)

(From page 23-131)

Connect the Test Harness (07LAJ—PT3020A) between the VSS and the engine wire harness.

Raise the rear of the car, and support it with stands.

Back-probe the ORN wire, and connect it to body ground through a voltmeter.

Put the car in neutral with the ignition switch ON (II).

Slowly rotate one wheel with the other wheel blocked.

Does voltage pulse from 0 to about 5 or more V?

NO

Replace the VSS (see page 23-133).

YES

Disconnect the 30-P connector at the speedometer.

Back-probe the ORN wire, and connect it to body ground through a voltmeter.

Slowly rotate one wheel with the other wheel blocked.

Does the voltmeter indicate pulsing voltage?

NO

Repair open in the ORN wire, between the VSS and the speedometer.

YES

Replace the speedometer.

