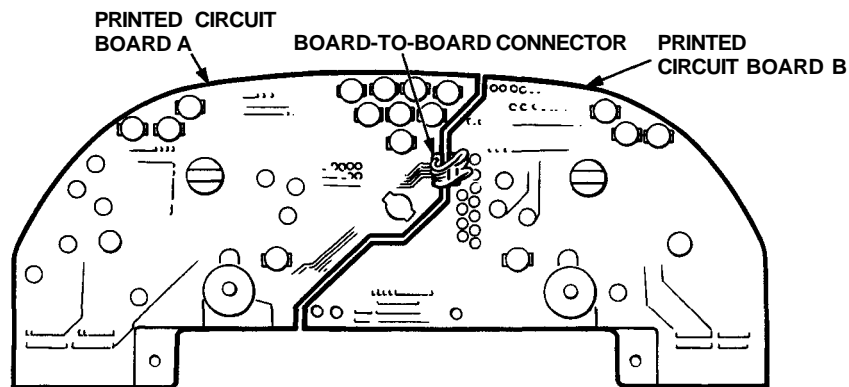


Speedometer/Trip meter/Odometer

Troubleshooting

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

Item to be inspected	Blown No. 5 (10 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
Symptom											
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	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.

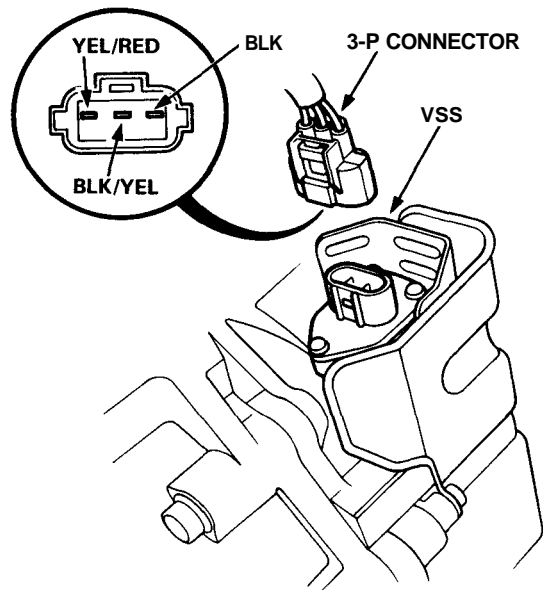
Inspect No. 2 (15 A) fuse in the under-dash fuse box before testing.

Disconnect the 3-P connector at the VSS.

Turn the ignition switch ON.

Measure voltage between the BLK/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?

NO

Check for continuity between the BLK terminal and body ground.

YES

Measure voltage between the YEL/RED and the BLK wire terminals.

Is there continuity?

NO

Repair open between the VSS and ground G101.

YES

Repair open BLK/YEL wire, between the VSS and under-dash fuse box.

Is there about 5 V?

NO

Repair open in YEL/RED wire or short to body ground.

YES

(To next page)

(cont'd)

Speedometer/TripMeter/Odometer

Troubleshooting (cont'd)

(From previous page)

Reconnect the 3-P connector at the vehicle speed sensor (VSS).

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

Back-probe the YEL/RED wire and connect it to body ground through a voltmeter.

Put the car in neutral with key ON.

Slowly rotate one wheel with the other wheel blocked.

Does voltage pulse from 0 to about 12 V?

NO

Replace the VSS (see page 23-133).

YES

Disconnect the 30-P connector at the speedometer.

Back-probe the YEL/RED wire and connect it to body ground through a voltmeter.

Slowly rotate one wheel with the other wheel blocked.

Does the volt meter indicate pulsing voltage?

NO

Repair open in the YEL/RED wire, between the VSS and the speedometer.

YES

Replace the speedometer.