

**DIAGNOSIS AND TESTING (Continued)**

**PINPOINT TEST FD:  
CO DISPLAYED, GAUGE BLANKS OUT FUEL TANK SYMBOL AND LIGHTS TOP TWO AND BOTTOM TWO BARS OF GAUGE  
(Continued)**

TEST STEP		RESULT	ACTION TO TAKE
<b>FD4</b>	<b>CHECK FUEL TANK SENDING UNIT AND PUMP WIRING AT CLUSTER</b>		
	<ul style="list-style-type: none"> <li>● Disconnect ground cable to battery.</li> <li>● Remove cluster and secure connectors from shorting.</li> <li>● Jumper variable resistance terminal and ground terminal of harness together at sender.</li> <li>● Verify condition between Pins 6 and 8 (ground) of cluster Connector A.</li> </ul>	Yes	REPLACE cluster. AFFIX odometer sticker to door pillar.
		No	SERVICE fuel tank sending unit and pump wiring for open circuit.

**PINPOINT TEST FE:  
CS DISPLAYED, GAUGE BLANKS OUT TANK SYMBOL AND LIGHTS TOP TWO AND BOTTOM TWO BARS OF GAUGE**

TEST STEP		RESULT	ACTION TO TAKE
<b>FE1</b>	<b>VERIFY CONDITION</b>		
	<ul style="list-style-type: none"> <li>● Does CS display?</li> </ul>	Yes	GO to FE2.
<b>FE2</b>	<b>CHECK FUEL TANK SENDING UNIT AND PUMP WIRING AT CLUSTER</b>		
	<ul style="list-style-type: none"> <li>● Disconnect ground cable to battery.</li> <li>● Remove cluster and secure connectors from shorting.</li> <li>● With an ohmmeter, measure resistance between Pins 6A and 8A (SIG GND) of harness.</li> <li>● Verify that the resistance is 11 ohms or greater (normally 11 to 168 ohms).</li> <li>● Is resistance at least 11 ohms?</li> </ul>	Resistance between 11 and 168 ohms	REPLACE cluster. <sup>5</sup>
		Resistance not as specified	Short exists in harness or fuel tank sending unit and pump. GO to FE3.
<b>FE3</b>	<b>CHECK FUEL TANK SENDING UNIT AND PUMP WIRING</b>		
	<ul style="list-style-type: none"> <li>● Disconnect ground cable to battery.</li> <li>● Lower fuel tank to gain access to fuel tank sending unit and pump connector.</li> <li>● Unplug connector to fuel tank sending unit and pump.</li> <li>● Measure resistance between Pins 6 and 8 (GND) of harness Connector A.</li> <li>● Verify that resistance is greater than 10,000 ohms.</li> </ul>	Resistance between 11 and 168 ohms	REPLACE fuel tank sending unit and pump.
		Resistance not as specified	SERVICE fuel tank sending unit and pump wiring for short circuit.

**PINPOINT TEST FF:  
INACCURATE FUEL INDICATION—FULL NOT INDICATED WHEN FUEL TANK IS FULL—EMPTY NOT INDICATED WHEN FUEL TANK IS EMPTY**

TEST STEP		RESULT	ACTION TO TAKE
<b>FF1</b>	<b>VERIFY CONDITION</b>		
			GO to FF2.
<b>FF2</b>	<b>CHECK FUEL GAUGE RESPONSE</b>		
	<ul style="list-style-type: none"> <li>● Disconnect ground cable to battery.</li> <li>● Lower fuel tank (if necessary) to gain access to fuel tank sending unit and pump connections.</li> <li>● Connect a 43 ohm (± 1 percent) resistor in place of fuel tank sending unit and pump. Verify resistance of resistor prior to test.</li> <li>● Reconnect battery.</li> <li>● Turn ignition key to RUN.</li> <li>● Fuel gauge should illuminate 2 to 3 bars.</li> <li>● Fuel remaining should read 13 to 15L (3 to 4 gal).</li> <li>● Does gauge read properly?</li> </ul>	Yes	GO to FF4. TURN ignition OFF.
		No	GO to FF3. TURN ignition OFF.

5 Affix odometer sticker to door pillar.