

## DIAGNOSIS AND TESTING (Continued)

## PINPOINT TEST A: SPEEDOMETER / ODOMETER NOISY, ERRATIC, INOPERATIVE OR INACCURATE (Continued)

TEST STEP		RESULT	ACTION TO TAKE
A4	CHECK CABLE		
	<ul style="list-style-type: none"> <li>Disconnect cable and check core for kinks, burrs or bent tips.</li> <li>Is cable OK?</li> </ul>	Yes No	GO to A5. REPLACE cable.
A5	CHECK VEHICLE SPEED SENSOR (VSS) 9E731		
	<ul style="list-style-type: none"> <li>Remove vehicle speed sensor (VSS), check for erratic or noisy operation.</li> <li>Is speed sensor OK?</li> </ul>	Yes No	GO to A6. REPLACE vehicle speed sensor (VSS).
A6	CHECK DRIVEN GEAR		
	<ul style="list-style-type: none"> <li>Check for damaged driven gear.</li> <li>Is driven gear OK?</li> </ul>	Yes No	REPLACE speedometer head. REPLACE gear.
A7	CHECK ODOMETER		
	<ul style="list-style-type: none"> <li>Check to see that odometer is operating.</li> <li>Does odometer operate properly?</li> </ul>	Yes No	REPLACE speedometer head. GO to A9.
A8	CHECK POINTER OPERATION		
	<ul style="list-style-type: none"> <li>Check to see that pointer operates.</li> <li>Does pointer operate properly?</li> </ul>	No Yes	GO to A9. REPLACE speedometer head.
A9	VERIFY CABLE CONNECTIONS		
	<ul style="list-style-type: none"> <li>Check and verify that cable is properly connected to speedometer and to speed sensor.</li> <li>Is cable connected properly?</li> </ul>	Yes No	GO to A10. SERVICE cable connections as required.
A10	CHECK MAGNET SHAFT		
	<ul style="list-style-type: none"> <li>Disconnect cable and check that magnet shaft in speedometer head turns freely.</li> <li>Does magnet shaft turn freely?</li> </ul>	Yes No	GO to A11. REPLACE speedometer head.
A11	CHECK DRIVE AND DRIVEN GEAR		
	<ul style="list-style-type: none"> <li>Check drive and driven gear for damage or wear.</li> <li>Are both gears OK?</li> </ul>	Yes No	GO to A12. REPLACE damaged gear.
A12	CHECK CABLE		
	<ul style="list-style-type: none"> <li>Check speedometer cable for kinks or improper routing.</li> <li>Is cable OK?</li> </ul>	Yes No	GO to A13. REPLACE cable.
A13	CHECK SENSOR SHAFT		
	<ul style="list-style-type: none"> <li>Disconnect cable from vehicle speed sensor (VSS). Remove sensor and check that shaft in sensor turns freely.</li> <li>Does sensor shaft turn freely?</li> </ul>	Yes No	GO to A14. REPLACE vehicle speed sensor (VSS).
A14	CHECK CORE		
	<ul style="list-style-type: none"> <li>Check for broken core.</li> <li>Is core OK?</li> </ul>	Yes No	If core is seized and will not turn, REPLACE cable. REPLACE cable.
A15	CHECK ODOMETER / SPEEDOMETER ACCURACY		
	<ul style="list-style-type: none"> <li>Check accuracy of odometer over a measured distance. Refer to Speedometer Calibration Tolerance Specifications.</li> <li>Is odometer accurate?</li> </ul>	Yes No	REPLACE speedometer head. GO to A16.
A16	CHECK DRIVEN GEAR		
	<ul style="list-style-type: none"> <li>Check for proper driven gear.</li> <li>Is driven gear correct?</li> </ul>	Yes No	GO to A17. REPLACE gear.