

## 14. General Diagnostics Table

### A: INSPECTION

Symptom		Probable faulty units/parts
Vehicle becomes unstable during braking	Vehicle pulls to either side.	<ul style="list-style-type: none"> <li>• ABSCM &amp; H/U (solenoid valve)</li> <li>• ABS sensor</li> <li>• Brake (caliper &amp; piston, pads)</li> <li>• Wheel alignment</li> <li>• Tire specifications, tire wear and air pressures</li> <li>• Incorrect wiring or piping connections</li> <li>• Road surface (uneven, camber)</li> </ul>
	Vehicle spins out.	<ul style="list-style-type: none"> <li>• ABSCM &amp; H/U (solenoid valve)</li> <li>• ABS sensor</li> <li>• Brake (pads)</li> <li>• Tire specifications, tire wear and air pressures</li> <li>• Incorrect wiring or piping connections</li> </ul>
Poor braking	Long braking/stopping distance	<ul style="list-style-type: none"> <li>• ABSCM &amp; H/U (solenoid valve)</li> <li>• Brake (pads)</li> <li>• Air in brake lines</li> <li>• Tire specifications, tire wear and air pressures</li> <li>• Incorrect wiring or piping connections</li> </ul>
	Wheels lock.	<ul style="list-style-type: none"> <li>• ABSCM &amp; H/U (solenoid valve, motor)</li> <li>• ABS sensor</li> <li>• Incorrect wiring or piping connections</li> </ul>
	Brake dragging	<ul style="list-style-type: none"> <li>• ABSCM &amp; H/U (solenoid valve)</li> <li>• ABS sensor</li> <li>• Master cylinder</li> <li>• Brake (caliper &amp; piston)</li> <li>• Parking brake</li> <li>• Axle &amp; wheels</li> <li>• Brake pedal play</li> </ul>
	Long brake pedal stroke	<ul style="list-style-type: none"> <li>• Air in brake lines</li> <li>• Brake pedal play</li> </ul>
	Vehicle pitching	<ul style="list-style-type: none"> <li>• Suspension play or fatigue (reduced damping)</li> <li>• Incorrect wiring or piping connections</li> <li>• Road surface (uneven)</li> </ul>
	Unstable or uneven braking	<ul style="list-style-type: none"> <li>• ABSCM &amp; H/U (solenoid valve)</li> <li>• ABS sensor</li> <li>• Brake (caliper &amp; piston, pads)</li> <li>• Tire specifications, tire wear and air pressures</li> <li>• Incorrect wiring or piping connections</li> <li>• Road surface (uneven)</li> </ul>
Vibration and/or noise (while driving on slippery roads)	Excessive pedal vibration	<ul style="list-style-type: none"> <li>• Incorrect wiring or piping connections</li> <li>• Road surface (uneven)</li> </ul>
	Noise from ABSCM & H/U	<ul style="list-style-type: none"> <li>• ABSCM &amp; H/U (mount bushing)</li> <li>• ABS sensor</li> <li>• Brake piping</li> </ul>
	Noise from front of vehicle	<ul style="list-style-type: none"> <li>• ABSCM &amp; H/U (mount bushing)</li> <li>• ABS sensor</li> <li>• Master cylinder</li> <li>• Brake (caliper &amp; piston, pads, rotor)</li> <li>• Brake piping</li> <li>• Brake booster &amp; check valve</li> <li>• Suspension play or fatigue</li> </ul>
	Noise from rear of vehicle	<ul style="list-style-type: none"> <li>• ABS sensor</li> <li>• Brake (caliper &amp; piston, pads, rotor)</li> <li>• Parking brake</li> <li>• Brake piping</li> <li>• Suspension play or fatigue</li> </ul>

**GENERAL DIAGNOSTICS TABLE**

ABS (DIAGNOSTICS)

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