

### 13. General Diagnostics Table

#### A: INSPECTION

Symptom		Probable faulty units/parts
Vehicle instability 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.	<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 line</li> <li>• Tire specifications, tire wear and air pressures</li> <li>• Incorrect wiring or piping connections</li> </ul>
	Wheel locks.	<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 line</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>
	Excessive pedal vibration	<ul style="list-style-type: none"> <li>• Incorrect wiring or piping connections</li> <li>• Road surface (uneven)</li> </ul>
Vibration and/or noise (while driving on slippery roads)	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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**MEMO:**