## 13.General Diagnostic Table

## A: INSPECTION

Symptom		Problem parts
Vehicle instability during braking	Vehicle is pulled to either right or left side.	<ul> <li>ABSCM&amp;H/U (solenoid valve)</li> <li>ABS wheel speed sensor</li> <li>Brake (caliper, piston and pad)</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> <li>ABSCM&amp;H/U (solenoid valve)</li> <li>ABS wheel speed sensor</li> <li>Brake (pad)</li> <li>Tire specifications, tire wear and air pressures</li> <li>Incorrect wiring or piping connections</li> </ul>
Poor brake performance	Long braking/stopping distance	<ul> <li>ABSCM&amp;H/U (solenoid valve)</li> <li>Brake (pad)</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> <li>ABSCM&amp;H/U (solenoid valve, motor)</li> <li>ABS wheel speed sensor</li> <li>Incorrect wiring or piping connections</li> </ul>
	Brake drag	ABSCM&H/U (solenoid valve) ABS wheel speed sensor Master cylinder Brake (caliper and piston) Parking brake Axle & wheels Brake pedal play
	Long brake pedal stroke	Air in brake line     Brake pedal play
	Vehicle vertical pitching	<ul> <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	ABSCM&H/U (solenoid valve)     ABS wheel speed sensor     Brake (caliper, piston and pad)     Tire specifications, tire wear and air pressures     Incorrect wiring or piping connections     Road surface (uneven)
Vibration and/or noise (while driving on slippery roads)	Excessive pedal vibration	Incorrect wiring or piping connections     Road surface (uneven)
	Noise from the ABSCM&H/U	ABSCM&H/U (mount bushing)     ABS wheel speed sensor     Brake line
	Noise from front of vehicle	ABSCM&H/U (mount bushing)     ABS wheel speed sensor     Master cylinder     Brake (caliper, piston, pad and rotor)     Brake line     Brake booster and check valve     Suspension play or fatigue
	Noise from rear of vehicle	<ul> <li>ABS wheel speed sensor</li> <li>Brake (caliper, piston, pad and rotor)</li> <li>Parking brake</li> <li>Brake line</li> <li>Suspension play or fatigue</li> </ul>

## **VEHICLE DYNAMICS CONTROL (VDC)**

## **VDC**

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