

11. General Diagnostics Table

A: SYMPTOMS AND PROBABLE CAUSES

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

**B: CHECKING THE HYDRAULIC
UNIT OPERATION****11B1 : PREPARING THE BRAKE TESTER.**

- CHECK** : *Is the brake tester available?*
- YES** : CHECKING THE HYDRAULIC UNIT
ABS OPERATION WITH BRAKE
TESTER <Ref. to 4-4 [W15C2].>
- NO** : CHECKING THE HYDRAULIC UNIT
ABS OPERATION BY PRESSURE
GAUGE <Ref. to 4-4 [W15C1].>

MEMO: