

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 |
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**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 [W25C2].☆10>****NO****: CHECKING THE HYDRAULIC UNIT ABS OPERATION BY PRESSURE GAUGE <Ref. to 4-4 [W25C1].☆10>**