

Brake Systems

BRAKE SYSTEM TROUBLE SHOOTING

CONDITION & POSSIBLE CAUSE	CONDITION & POSSIBLE CAUSE
<p>Pull When Brake Pedal is Applied</p> <ul style="list-style-type: none"> ● Incorrect tire pressure. ● Front end out of line. ● Unmatched tires. ● Restricted brake lines or hoses. ● Malfunctioning caliper. ● Bent shoe or oily linings. ● Malfunctioning rear brakes. ● Loose suspension parts. ● Loose calipers. <p>Squeal or Squeak Without Brakes Applied</p> <ul style="list-style-type: none"> ● Front linings worn out. ● Dust or oil on drums or rotors. <p>Brake Rough, Chatters or Pulsates</p> <ul style="list-style-type: none"> ● Excessive lateral runout. ● Parallelism not to specifications. ● Wheel bearings not adjusted. ● Rear drums out-of-round. ● Disc pad reversed, steel against rotor. <p>Excessive Pedal Effort</p> <ul style="list-style-type: none"> ● Malfunctioning power unit. ● Partial system failure. ● Worn disc pad or lining. ● Piston in caliper or master cylinder stuck or sluggish. ● Fading brakes due to incorrect pads or linings. ● Linings or pads glazed. ● Worn drums. <p>Excessive Pedal Travel</p> <ul style="list-style-type: none"> ● Partial brake system failure. ● Insufficient fluid in master cylinder. ● Air trapped in system. ● Rear brakes not adjusted. ● Bent shoe or lining. ● Plugged master cylinder cap. ● Improper brake fluid. 	<p>Pedal Travel Decreasing</p> <ul style="list-style-type: none"> ● Compensating port plugged. ● Swollen cup in master cylinder. ● Master cylinder piston not returning. ● Weak shoe retracting springs. ● Wheel cylinder piston sticking. <p>Dragging Brakes</p> <ul style="list-style-type: none"> ● Master cylinder pistons not returning correctly. ● Restricted brake lines or hoses. ● Incorrect parking brake adjustment on rear brakes. ● Parking brake cables frozen. ● Check valve installed in outlet to front disc brakes. ● Incorrect installation of inboard disc pad. ● Power booster output rod too long. ● Brake pedal not returning freely. <p>Brakes Grab or Uneven Braking Action</p> <ul style="list-style-type: none"> ● All conditions under "Brake Pulls". ● Malfunction of combination valve. ● Malfunction of power brake unit. ● Binding brake pedal. <p>Pulsation or Roughness Felt During Normal Brake Application</p> <ul style="list-style-type: none"> ● Uneven pad wear caused by caliper not sliding due to improper clearance or dirt. ● Uneven rotor wear causing a thickness variation between the two braking surfaces. ● Drums out-of-round. <p>Squeal or Squeak with Brakes Applied</p> <ul style="list-style-type: none"> ● Insulator on outboard shoe damaged. ● Incorrect pads or linings.