

# TROUBLESHOOTING

## PROBLEM SYMPTOMS TABLE

BROUP-01

Use the table below to help you find the cause of the problem. The numbers indicate the priority of the likely cause of the problem. Check each part in order. If necessary, replace these parts.

Symptom	Suspect Area	See page
Low pedal or spongy pedal	1. Fluid leaks for brake system 2. Air in brake system 3. Piston seals (Worn or damaged) 4. Rear brake shoe clearance (Out of adjustment) 5. w/o ABS: Master cylinder (Faulty) 6. w/o ABS: Booster push rod (Out of adjustment) 7. w/ABS: Hydraulic brake booster (Faulty)	<a href="#">DI-408</a> <a href="#">BR-5</a> <a href="#">BR-10</a> <a href="#">BR-37</a> <a href="#">BR-51</a> <a href="#">BR-43</a> <a href="#">BR-47</a> <a href="#">BR-15</a> <a href="#">BR-24</a> <a href="#">BR-72</a>
Brake drag	1. Brake pedal freeplay (Minimum) 2. Parking brake lever travel (Out of adjustment) 3. Parking brake wire (Sticking) 4. Rear brake shoe clearance (Out of adjustment) 5. Pad or lining (Cracked or distorted) 6. Piston (Stuck) 7. Piston (Frozen) 8. Anchor, tension or return spring (Faulty) 9. w/o ABS: Booster push rod (Out of adjustment) 10. w/o ABS: Vacuum leaks for booster system 11. w/o ABS: Master cylinder (Faulty) 12. w/ ABS: Hydraulic brake booster (Faulty)	<a href="#">BR-10</a> <a href="#">BR-10</a> – <a href="#">BR-47</a> <a href="#">BR-62</a> <a href="#">BR-34</a> <a href="#">BR-48</a> <a href="#">BR-43</a> <a href="#">BR-57</a> <a href="#">BR-37</a> <a href="#">BR-51</a> <a href="#">BR-43</a> <a href="#">BR-37</a> <a href="#">BR-51</a> <a href="#">BR-43</a> <a href="#">BR-43</a> <a href="#">BR-57</a> <a href="#">BR-24</a> <a href="#">BR-21</a> <a href="#">BR-15</a> <a href="#">BR-72</a>

## BRAKE – TROUBLESHOOTING

Brake pull	<ol style="list-style-type: none"> <li>1. Piston (Stuck)</li> <li>2. Pad or lining (Oily)</li> <li>3. Piston (Frozen)</li> <li>4. Disc (Scored)</li> <li>5. Pad or lining (Cracked or distorted)</li> <li>6. w/ ABS: Hydraulic brake booster (Faulty)</li> </ol>	<a href="#">BR-37</a> <a href="#">BR-51</a> <a href="#">BR-43</a> <a href="#">BR-34</a> <a href="#">BR-48</a> <a href="#">BR-43</a> <a href="#">BR-57</a> <a href="#">BR-37</a> <a href="#">BR-51</a> <a href="#">BR-43</a> <a href="#">BR-40</a> <a href="#">BR-54</a> <a href="#">BR-34</a> <a href="#">BR-48</a> <a href="#">BR-43</a> <a href="#">BR-57</a> <a href="#">BR-72</a>
Hard pedal but brake inefficient	<ol style="list-style-type: none"> <li>1. Fluid leaks for brake system</li> <li>2. Air in brake system</li> <li>3. Pad or lining (Worn)</li> <li>4. Pad or lining (Cracked or distorted)</li> <li>5. Rear brake shoe clearance (Out of adjustment)</li> <li>6. Pad or lining (Oily)</li> <li>7. Pad or lining (Glazed)</li> <li>8. Disc (Scored)</li> <li>9. w/o ABS: Booster push rod (Out of adjustment)</li> <li>10. w/o ABS: Vacuum leaks for booster system</li> <li>11. w/ ABS: Hydraulic brake booster (Faulty)</li> </ol>	<a href="#">DI-408</a> <a href="#">BR-5</a> <a href="#">BR-10</a> <a href="#">BR-34</a> <a href="#">BR-48</a> <a href="#">BR-43</a> <a href="#">BR-57</a> <a href="#">BR-34</a> <a href="#">BR-48</a> <a href="#">BR-43</a> <a href="#">BR-57</a> <a href="#">BR-47</a> <a href="#">BR-62</a> <a href="#">BR-34</a> <a href="#">BR-48</a> <a href="#">BR-43</a> <a href="#">BR-57</a> <a href="#">BR-34</a> <a href="#">BR-48</a> <a href="#">BR-43</a> <a href="#">BR-57</a> <a href="#">BR-40</a> <a href="#">BR-54</a> <a href="#">BR-24</a> <a href="#">BR-21</a> <a href="#">BR-72</a>

Noise from brakes	1. Pad or lining (Cracked or distorted) 2. Installation bolt (Loose) 3. Disc (Scored) 4. Pad support plate (Loose) 5. Sliding pin (Worn) 6. Pad or lining (Dirty) 7. Pad or lining (Glazed) 8. Anchor, tension or return spring (Faulty) 9. Anti-squeal shim (Damaged) 10. Shoe hold-down spring (Damaged)	<a href="#">BR-34</a> <a href="#">BR-48</a> <a href="#">BR-43</a> <a href="#">BR-57</a> <a href="#">BR-37</a> <a href="#">BR-51</a> <a href="#">BR-40</a> <a href="#">BR-54</a> <a href="#">BR-51</a> <a href="#">BR-51</a> <a href="#">BR-34</a> <a href="#">BR-48</a> <a href="#">BR-43</a> <a href="#">BR-57</a> <a href="#">BR-34</a> <a href="#">BR-48</a> <a href="#">BR-43</a> <a href="#">BR-57</a> <a href="#">BR-43</a> <a href="#">BR-57</a> <a href="#">BR-34</a> <a href="#">BR-48</a> <a href="#">BR-43</a> <a href="#">BR-57</a>
w/ ABS Noise from hydraulic brake booster (Abnormal pump motor operation noise)	Accumulator bracket clearance (Out of adjustment)	<a href="#">BR-86</a>
w/ ABS Brake warning light lights up* <sup>1</sup> (Parking brake pedal released)	1. Brake fluid level 2. Hydraulic brake booster power supply system (Faulty)	– <a href="#">BR-72</a>
w/ ABS Brake warning light lights up and brake warning buzzer sounds* <sup>2</sup>	Hydraulic brake booster power supply system (Faulty)	<a href="#">BR-72</a>
w/ ABS ABS warning light lights up* <sup>3</sup>	1. Anti – lock brake system (Faulty) 2. Hydraulic brake booster power supply system (Faulty)	– <a href="#">BR-72</a>

\*<sup>1</sup>, \*<sup>3</sup>: The light may stay on for about 60 seconds after the engine is started. It is normal if it goes out after a while.

\*<sup>2</sup>, \*<sup>3</sup>: Depressing the brake pedal repeatedly may turn on the warning light and buzzer. It is normal if the light goes out and the buzzer stops sounding after a few seconds.

\*<sup>3</sup>: While ABS warning light is ON.