



SECTION 7 COMMON TROUBLES IN BRAKING SYSTEM

(1) Braking in hard operation

Problem	Solution
1. Insufficient air pressure in the pipelines ① Poor sealing of the compressor inlet and outlet valves; cylinder gasket broken. ② Pipe or connector damaged ③ Air leakage from the pressure adjusting composite valve. ④ The four-pipeline protecting valve leakage ⑤ Relay valve leakage ⑥ Leakage from main braking control valve ⑦ Leakage from emergency-park braking control valve	① Replace the valves or springs; Replace the gasket if it is damaged. ② Replace the pipe or connector. ③ Disassemble the valve; clean all parts; replace the damaged parts; check the sealing afterwards. ④ ditto ⑤ ditto ⑥ ditto ⑦ ditto
2 Poor inlet/outlet sealing of main braking control valve	2 Clean the inlet and outlet valves; replace if necessary.
3 Poor inlet/outlet sealing of the relay valve, or the valve body corroded.	3 Disassemble the valve; clean the inlet-outlet valve; replace the damaged part; replace the valve body if it is damaged.
4 Braking chamber diaphragm damage	4 Replace the damaged diaphragm.
5 Braking clearance too large	5 Adjust the clearance according to specification; replace the gasket if necessary.
6 Braking lining with oil or hardening by burning or corrosion.	6 Replace the lining or oil seal to eliminate oil leakage.



(2) Braking cannot be released or not completely released

Problem	Solution
1. Main brake valve relay piston or follow-up piston retardation	1. Disassemble main brake valve; check piston and sealing rings; replace piston, seal rings,
2. Concave or shriveled plastic pipe from main brake valve to relay valve causing narrow flow	2. Check the pipe; replace if necessary.
3. Relay valve piston or outlet valve retardation	3. Disassemble the relay valve; check the piston, seals and outlet valve; replace the repair pack if necessary.
4. Hand brake chamber leakage	4. Disassemble and repair hand brake chamber.
5. Hand brake valve leakage	5. Disassemble and repair hand brake valve.
6. Main brake valve, relay valve air return retardation.	6. Disassemble and repair.
7. Cam shaft interfering	7. Check the cam shaft moving; check after removal if necessary.
8. Weak spring retacing force by brake pedal	8. Replace if necessary.
9. Braking clearance too small	9. Adjust the clearance.



(3) Braking off-track

Problem	Solution
1. Tire inflation not to specification	1. Check the tire.
2. Tire models different from each other	2. Install the same model of tires.
3. Brake clearance not properly adjusted	3. Readjust the clearance.
4. Ununiform wearing of brake shoes	4. Replace the shoes; make laser cutting if necessary.
5. Oil and dirt on one side of brake shoes	5. Clean the shoes with gasoline, replace if necessary.
6. Different materials and models of brake shoes	6. Replace with the same material and same model.
7. Abnormal working on one side of brake chamber	7. Repair or replace braking chamber.
8. Brake drum poor roundness	8. Boring the drum.