

Fault Diagnosis

| <i>Symptom</i> | <i>Possible Cause</i> | <i>Rectification</i> |
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| BRAKE BINDING - ONE WHEEL | <ol style="list-style-type: none"> 1. Brake over-adjusted. 2. Brake shoes tight/seized on backplate. 3. Brake shoe return spring broken. 4. Brake shoe distorted. 5. Wheel cylinder rubbers swollen. 6. Flexible hose blocked (front only). 7. Obstruction in hydraulic line. | <p>Adjust brake. Lubricate and refit brake shoes.</p> <p>Renew spring. Renew brake shoe. Renew rubbers, flush hydraulic system and renew all rubbers. Release hydraulic connection at wheel cylinder. If brake releases, fault is in hose or hydraulic line. Renew hose. Examine hydraulic line for kinks and restrictions.</p> |
| BRAKES BINDING - ALL WHEELS | <ol style="list-style-type: none"> 1. Foot control valve not fully exhausting 2. Master cylinder pistons sticking or seals swollen. 3. Incorrect clearance between master cylinder and actuator. 4. Tandem actuator pistons sticking. | <p>Test foot control valve.</p> <p>Overhaul master cylinder. If seals are swollen, flush the hydraulic system and renew all rubbers. Check and if necessary adjust the clearance.</p> <p>Overhaul the actuator.</p> |
| PARK BRAKE NOT APPLYING | <ol style="list-style-type: none"> 1. Quick release valve not exhausting. 2. Hand control valve not exhausting. 3. Compensator linkage incorrectly adjusted. 4. Wind-off mechanism of spring brake actuator not fully released. | <p>Test the quick release valve. Test the hand control valve. Check and adjust the compensator linkage. check wind-off mechanism.</p> |
| PARK BRAKE NOT RELEASING | <ol style="list-style-type: none"> 1. Hand control valve faulty. 2. Excessive air leak in air line, hand control valve to spring brake actuator. 3. Excessive air leak in park brake circuit. 4. Piston sticking or seized in spring brake actuator. | <p>Test the hand control valve. Test for air leaks with hand control valve in 'OFF' position. Test for air leak.</p> <p>Overhaul spring brake actuator.</p> |