



RX-555 Brake Service Machine

Troubleshooting Guide

Fluid Flow Problems

Symptom 1: No Fluid Flow - Stuck Ball

- **Indicators:**
 - Hollow ball stuck on O-ring
 - Complete blockage of new fluid flow
- **Checks:**
 - a. Verify tube pressure (40 PSI minimum)
 - b. Visual inspection of ball through filler neck
- **Actions:**
 - a. Remove filler cap (Part # B90565)
 - b. Use 12" screwdriver to carefully free the stuck ball
 - c. Check O-ring condition and replace if damaged

Symptom 2: No Fluid Flow - Floating Ball

- **Indicators:**
 - Ball moves freely in fluid
 - Still no fluid flow despite ball movement
- **Checks:**
 - a. Verify tube pressure (40 PSI minimum)
 - b. Confirm ball is actually floating and not stuck
- **Actions:**
 - a. Replace new fluid line and quick connects (Part # B20090A)
 - b. If flow doesn't resume, replace red hose (Part# B20185-2)
 - c. Check for blockages in fluid pathway



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Vacuum System Issues

Symptom: No/Weak Vacuum

1. **Checks:**
 - i. Verify shop air pressure (minimum 40 PSI)
 - ii. Check vacuum gauge reading
 - iii. Inspect clear suction hose for kinks or damage
2. **Actions:**
 - i. Test vacuum switch operation
 - ii. Check all vacuum line connections
 - iii. Clean or replace vacuum hose if blocked

Pressure System Issues

Symptom 1: Incorrect Tube Pressure

1. **Checks:**
 - i. Verify pressure gauge reading
 - ii. Check for air leaks around filler cap
2. **Actions:**
 - i. Test pressure relief valve operation
 - ii. Inspect filler cap seal
 - iii. Verify pressure regulator function

Symptom 2: Pressure Leaks from Top/Cap Area

- **Indicators:**
 - Unable to build/maintain air pressure
 - Visible leaking from top area
 - Recent cap issues or drops



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- **Checks:**
 - a. Inspect filler cap and O-ring for damage
 - b. Check for cross-threading
 - c. Examine small cap assemblies and O-rings
- **Actions:**
 - For Small Cap Issues:
 - Remove small cap assemblies
 - Replace O-rings
 - Carefully reinstall, avoiding cross-threading
 - Hand-tighten only
 - For Filler Cap Issues:
 - Remove old O-ring
 - Install new O-ring
 - Test fit with existing cap
 - Replace entire filler cap assembly if cross-threading occurs
 - Hand-tighten only

Important Warning: Stop operation immediately if cross-threading occurs repeatedly. Tube assembly replacement may be necessary.



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Adapter Connection Issues

Symptom: Leaking or Poor Fit

1. **Checks:**
 - i. Verify correct adapter selection
 - ii. Inspect adapter seals
2. **Actions:**
 - i. Clean adapter and master cylinder interface
 - ii. Replace adapter O-rings if damaged
 - iii. Verify adapter chart for correct application

General Service Issues

Symptom: Poor Fluid Exchange Quality

1. **Checks:**
 - i. Verify bleeder valve operation
 - ii. Check fluid color in clear suction hose
2. **Actions:**
 - i. Clean bleeder valves if stuck
 - ii. Adjust pressure/vacuum settings
 - iii. Follow proper bleeding sequence

Preventive Maintenance:

1. Clean all adapters after use
2. Empty and clean fluid reservoir regularly
3. Inspect all hoses and connections monthly
4. Check gauge calibration periodically
5. Clean or replace filters as needed



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General Flow Checks for All Issues:

1. Verify shop air pressure (minimum 40 PSI)
2. Remove hoses and blow out with compressed air
3. Check all connections for proper seating
4. Verify fluid level in reservoir
5. Test operation after each repair before full service

Important Notes:

- Always verify shop air pressure before troubleshooting
- Release system pressure before servicing machine
- Follow manufacturer specifications for pressure settings
- Document any repeated issues for technical support

This troubleshooting guide outlines specific symptoms, corresponding actions, and a general step to check the air pressure throughout the process. It provides a systematic approach to address issues related to fluid flow in the RX-555 Brake Service Machine.