

Troubleshooting

1. Follow **Pressure Relief Procedure**, page 17, before checking or repairing gun.
2. Check all possible problems and causes before disassembling gun.

CAUTION
To prevent cross-contamination of gun's wetted parts, do not interchange A component (isocyanate) and B component (resin) parts.

PROBLEM	CAUSE	SOLUTION
Gun does not fully actuate when triggered.	Safety lock engaged.	Disengage piston safety lock. See Piston Safety Lock , page 12.
	Plugged breather plug (9).	Clean Breather Plug , page 26.
	Damaged air valve o-rings (15).	Replace. See Air Valve , page 43.
Fluid does not spray when gun is fully actuated.	Closed fluid valves (1b).	Open.
	Plugged impingement ports.	Clean Impingement Ports , page 29.
	Plugged check valves (44,45).	Clean. See Check Valves , page 41.
Gun actuates slowly.	Plugged breather plug (9).	Clean Breather Plug , page 26.
	Damaged piston o-rings (4a, 4c).	Replace. See Piston , page 42.
	Dirty air valve, or damaged o-rings (15).	Clean air valve or replace o-rings. See Air Valve , page 43.
Gun delays, then actuates abruptly.	Cured material around side seals (42, 43).	Inspect side seals (42c) and mix chamber (14) for scratches. Replace; see Mix Chamber and Side Seal Assemblies , page 38.
Loss of round pattern.	Dirty mix chamber (14) nozzle.	Clean Mix Chamber Nozzle , page 28.
	Empty ClearShot Liquid cartridge.	Replace. See ClearShot Liquid Cartridge Installation/Removal , page 23.
	ClearShot Liquid dosing pump is not primed.	Prime dosing pump. See ClearShot Liquid Cartridge Installation/Removal , page 23.
Loss of flat pattern.	Plugged spray tip.	Clean in compatible solvent.
	Worn tip.	Replace. See Flat Spray Tips , page 19.
	Empty ClearShot Liquid cartridge.	Replace. See ClearShot Liquid Cartridge Installation/Removal , page 23.
	Dirty mix chamber (14) nozzle.	Clean Mix Chamber Nozzle , page 28.

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PROBLEM	CAUSE	SOLUTION
Leakage between flat tip and mix chamber.	Tip not seated properly.	Reassemble. See Flat Spray Tips , page 19.
	Damaged/missing o-ring (47).	Replace. See Flat Spray Tips , page 19.
Pressure imbalance.	Plugged impingement ports.	Clean Impingement Ports , page 29.
	Plugged check valves (44, 45).	Clean. See Check Valves , page 41.
	Viscosities not equal.	Adjust temperature to compensate.
	Plugged fluid screens.	Clean. See Clean or Replace Fluid Screens , page 27.
A and/or B fluid in gun air section.	Damaged side seals (42, 43).	Replace. See Mix Chamber and Side Seal Assemblies , page 38.
	Damaged mix chamber (14).	Replace. See Mix Chamber and Side Seal Assemblies , page 38.
	Damaged side seal o-rings (42d, 42e).	Replace. See Mix Chamber and Side Seal Assemblies , page 38.
	Tightened flat tip retainer with fluid valves (1b) open.	Close valves first.
Fluid mist from mix chamber.	Damaged side seals (42, 43).	Replace. See Mix Chamber and Side Seal Assemblies , page 38.
	Damaged side seal o-rings (42d, 42e).	Replace. See Mix Chamber and Side Seal Assemblies , page 38.
	Damaged mix chamber (14).	Replace. See Mix Chamber and Side Seal Assemblies , page 38.
	Dosed ClearShot Liquid normal.	No action required.
Rapid buildup of material on air cap.	Plugged front cover holes.	Clean or Replace Front Cover and Retainer , page 26.
	Damaged/missing fluid housing o-ring (2b or 2c).	Replace. See Parts , page 44.
	Damaged front o-ring (2b).	Replace. See Parts , page 44.
Reduced cleanoff air.	Damaged fluid housing o-ring (2d).	Replace. See Parts , page 44.
Excessive purge air when fluid valves are closed and gun is de-triggered.	Damaged/missing fluid housing o-ring (2c).	Replace. See Parts , page 44.
Fluid does not shut off when fluid valves are closed.	Damaged fluid valves (1b).	Replace. See Parts , page 44.
Burst of air from muffler when gun is triggered.	Normal.	No action required.

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PROBLEM	CAUSE	SOLUTION
Steady air leakage from muffler.	Damaged air valve o-rings (4d).	Replace. See Air Valve , page 43.
	Damaged piston o-rings (4a, 4c).	Replace. See Piston , page 42.
Air leakage from front air valve.	Damaged air valve o-rings (4d).	Replace. See Air Valve , page 43.
Air leak between handle and fluid housing	Damaged o-ring (2c or 2d).	Replace. See Parts , page 44.
Cannot tighten front cover retainer (20) until it bottoms out.	Installing round mix chamber front cover on a flat tip gun.	Inspect front cover for flat tips 256416 and for round tips 256414.
Gun does not dose ClearShot Liquid.	Empty ClearShot Liquid cartridge.	Replace. See ClearShot Liquid Cartridge Installation/Removal , page 23.
	ClearShot Liquid dosing pump is not primed.	Prime dosing pump. See ClearShot Liquid Cartridge Installation/Removal , page 23.
	Damaged cartridge o-rings.	Replace. See ClearShot Liquid Cartridge Installation/Removal , page 23.
	Damaged or cracked cartridge.	Replace. See ClearShot Liquid Cartridge Installation/Removal , page 23.
	Damaged dosing piston.	Repair. See Piston , page 42.
Excessive ClearShot Liquid dosing; producing less than 1000 doses per cartridge.	Non-regulated air supply to gun.	Regulate air supply to gun.
	Excessive air pressure at gun.	Regulate air supply to 80 psi (0.56 MPa, 5.6 bar).
	Damaged or dirty o-rings on air piston and/or dosing piston.	Repair or clean o-rings. See Piston , page 42.
ClearShot Liquid cartridge installation or removal is difficult.	Friction between cartridge o-rings and cartridge bore.	Lubricate cartridge o-rings and/or cartridge bore with a few drops of ClearShot Liquid. See , page 22.
ClearShot Liquid cartridge is pressure locked in cartridge bore.	Cartridge is empty. Temporary cartridge pressure lock.	Engage piston safety lock and trigger gun 20 times to bleed pressure in cartridge. See ClearShot Liquid Cartridge Installation/Removal , page 23.