

# Maintenance

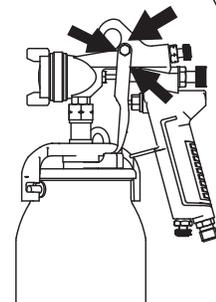
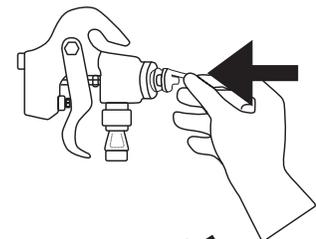
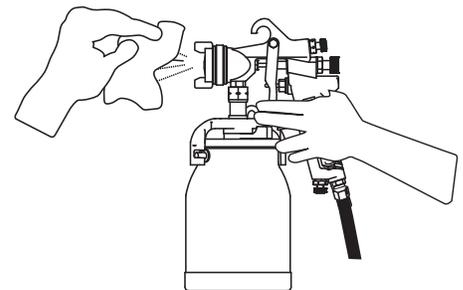
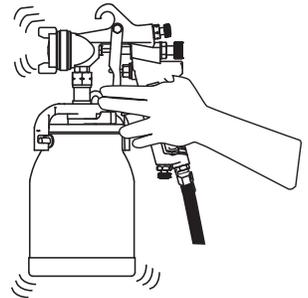
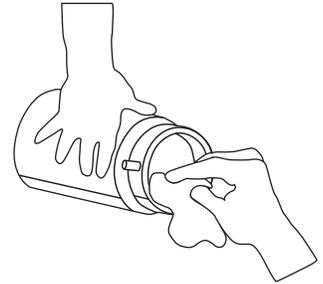
Ensure the air line is shut-off and drained of air before removing this tool for service. This will prevent the tool from operating if the throttle is accidentally engaged.

## DAILY CLEAN UP



**NOTE:** Clean the spray gun immediately after use.

- Paint and other materials dry quickly in the small passages rendering the gun useless due to the difficulty of removing hardened paint from the passages inside the gun. An in-line filter-regulator-lubricator is recommended as it increases tool life and keeps the tool in sustained operation. Remove and empty the canister. Rinse with a solvent recommended for the paint or other material used. Refill the canister with clean solvent and attach to the gun. Spray the solvent through the gun while shaking the gun vigorously. Wipe the gun exterior with a solvent soaked rag. Repeat until the gun is clean.
  
- Remove the air cap and soak in solvent until clean. Use a small brush for stubborn stains if necessary. Toothpicks or small brushes may be used to clean air passages. **NEVER USE METAL OBJECTS TO CLEAN PRECISELY DRILLED PASSAGES. DAMAGED PASSAGES WILL CAUSE IMPROPER SPRAYING.**
  
- Clean the gaskets with a solvent soaked rag. To prevent equipment damage, **DO NOT IMMERSE THE GASKET OR SPRAY GUN BODY IN SOLVENTS.**
  
- After using water to clean out water based paints or materials, spray mineral spirits through the gun to prevent corrosion.
  
- Use a non-silicone oil on all moving parts when reassembling. Use Vaseline® or light grease on all threaded connections prior to storage.



# Troubleshooting

Problem	Possible Cause	Solution
Heavy spray pattern to the left or right of the paint surface.	<ul style="list-style-type: none"> <li><input type="checkbox"/> Holes in the left or right side of the air cap are plugged.</li> <li><input type="checkbox"/> Dirt on the left or right side of the fluid tip.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Use only non-metallic paint.</li> <li><input type="checkbox"/> Clean the air cap.</li> <li><input type="checkbox"/> Clean the fluid tip.</li> </ul>
Heavy spray pattern to the top or bottom of the paint surface.	<ul style="list-style-type: none"> <li><input type="checkbox"/> Dried material at the top or bottom of the fluid tip.</li> <li><input type="checkbox"/> The air cap is loose or the seat is dirty.</li> <li><input type="checkbox"/> The air cap is plugged.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Use only non-metallic paint.</li> <li><input type="checkbox"/> Clean the fluid tip.</li> <li><input type="checkbox"/> Clean and tighten the air cap.</li> </ul>
Spray gun emits split spray pattern.	<ul style="list-style-type: none"> <li><input type="checkbox"/> The fan pattern is open too far.</li> <li><input type="checkbox"/> The fluid control is turned too far.</li> <li><input type="checkbox"/> The atomization air adjustment is too high.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Partially close the pattern adjustment.</li> <li><input type="checkbox"/> Increase fluid using the fluid control knob.</li> <li><input type="checkbox"/> Reduce the atomization air pressure.</li> </ul>
The spray gun emits split spray pattern.	<ul style="list-style-type: none"> <li><input type="checkbox"/> The fan adjustment is partially closed.</li> <li><input type="checkbox"/> The paint material is too thick.</li> <li><input type="checkbox"/> Atomization pressure is too low.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Open the fan pattern adjustment.</li> <li><input type="checkbox"/> Thin paint material to proper viscosity.</li> <li><input type="checkbox"/> Increase the atomization pressure.</li> </ul>
The spray gun emits sputtering spray pattern.	<input type="checkbox"/> The material level is too low.	<input type="checkbox"/> Refill the paint cup.
	<input type="checkbox"/> The container is tipped too far.	<input type="checkbox"/> Hold the spray gun upright.
	<input type="checkbox"/> Loose fluid inlet connection.	<input type="checkbox"/> Tighten the fluid cap.
	<input type="checkbox"/> Loose or damaged fluid tip / seat.	<input type="checkbox"/> Adjust or replace the fluid tip or seat.
	<input type="checkbox"/> Dry or loose fluid needle packing nut.	<input type="checkbox"/> Lubricate and tighten the fluid needle and packing nut.
Air is leaking from the air cap without pulling the trigger.	<input type="checkbox"/> The air vent is clogged.	<input type="checkbox"/> Clear the vent hole.
	<input type="checkbox"/> The air valve stem is sticking.	<input type="checkbox"/> Lubricate the valve stem.
	<input type="checkbox"/> There is contaminate on the valve or seat.	<input type="checkbox"/> Clean air valve or seat.
	<input type="checkbox"/> The air valve or seat is worn or damaged.	<input type="checkbox"/> Replace air valve or stem.
	<input type="checkbox"/> The air valve spring is broken.	<input type="checkbox"/> Replace air valve spring.
Fluid leaking from fluid tip of spray gun.	<input type="checkbox"/> Valve stem is bent.	<input type="checkbox"/> Replace valve stem.
	<input type="checkbox"/> The packing nut is too tight.	<input type="checkbox"/> Adjust the packing nut.
	<input type="checkbox"/> The fluid tip is worn or damaged.	<input type="checkbox"/> Replace the tip and / or needle.
	<input type="checkbox"/> There is foreign matter on the tip.	<input type="checkbox"/> Clean the fluid tip.
The spray gun emits excessive overspray.	<input type="checkbox"/> The fluid needle spring is broken.	<input type="checkbox"/> Replace fluid needle spring.
	<input type="checkbox"/> The atomization pressure is set too high.	<input type="checkbox"/> Reduce the atomization pressure.
	<input type="checkbox"/> The spray gun is held too far away from the work surface.	<input type="checkbox"/> Adjust to the proper distance.
The spray gun will not spray.	<input type="checkbox"/> Improper stroking (arcing, gun motion too fast).	<input type="checkbox"/> Move the spray gun at a moderate pace, parallel to the surface.
	<input type="checkbox"/> There is no air pressure at the gun.	<input type="checkbox"/> Check the air lines.
	<input type="checkbox"/> The fluid control is not open enough.	<input type="checkbox"/> Open fluid control.
	<input type="checkbox"/> The material is too heavy.	<input type="checkbox"/> Thin the material or change over to a pressure feed system.



## Service Parts (continued)

Reference Number	Part Number	Description
1	9W97021H	Air Cap
2	9W9701	Air Cap Ring
3	9W9701-1	Gasket
4	9W97023	Brass Ring
5	9W9703	Nozzle
6	9W97031	Brass Ring
7	9W97032	Pattern Control Gasket
8	9W97042	Fluid Needle Bushing
9	9W97041H	Fluid Needle Seat
10	9W9705	Gun Body
11	9W98061	Retainer Ring
12	9W9718	Trigger Retaining Nut
13	9W71061	Retainer Ring
14	9W71067	Brass Ring
15	9W71066	Pattern Control Spring
16	9W71062	O-Ring
17	9W97064	Pattern Control Needle
18	9W71063H	Pattern Control Nut
19	9W71065H	Pattern Control Knob
20	9W9708H	Fluid Adj. Bushing
20a	9W71-13-4	O-Ring (2)
20b	9W97081	Washer
21	9W9709H	Fluid Adj. Needle
22	9W9712	Fluid Adj. Knob
23	9W9710	Fluid Adj. Spring
24	9W7715	Air Valve Spring
25	9W7714	Air Valve Needle

Reference Number	Part Number	Description
26	9W97133	Air Valve Bushing
26b	9W71-13-2	Air Valve Packing
26c	9W71-13-1H	Air Valve Bushing
27	9W9721H	Paint Inlet Bushing
28	9W9719H	Trigger Lever
29	9W7717H	Air Inlet
30	9W77282	Inlet Set Pin
31	9W71061	Retainer Ring
32	9W71283	Inlet Set Spring
33	9W71282	Washer (2)
34	9W71062	O-Ring
35	9W71286H	Inlet Set Nut
36	9W71287	Inlet Set Knob
37	9W97303	Locking Nut
38	9W97307	Screw
39	9W97302	Suction Tube
40	9W97305-2	Yoke Assembly
41	9W97305-1	Locking Lever
42	9W97309	Anti Drop Tube
43	9W97305	Canister Lid
43a	9W71-30-4	Gasket
44	9W97301	Paint Canister
45	9W97308	Anti Drop Nut (2)
46	9W9726	Wrench
47	9W7127	Soft Brush
48	9D41A4105	Needle
49	9D41A4103	Cleaning Brush