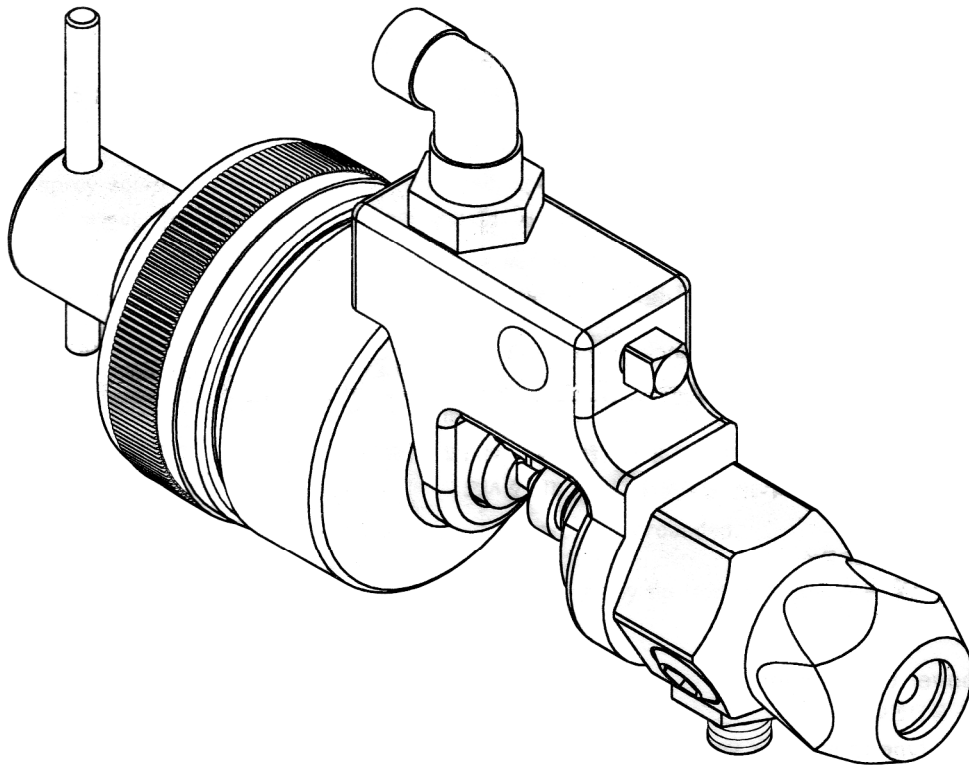


ATOMEX X-900BD AUTOMATIC GUN MANUAL



WARNING

1. FLUID INJECTION HAZARD

This equipment generates very high fluid pressure. Spray from gun, leaks or ruptured components can inject fluid through your skin and into your body and cause extremely serious bodily injury, including the need for amputation.

- Never point the gun at anyone or at any part of the body.
- Never put hands or fingers over the spray tip.
- Never try to stop or deflect leaks with your hand or body.
- If any fluid appears to have penetrated your skin, get emergency medical care at once. Do not treat as a simple cut. Tell the doctor exactly what fluid was injected.

2. FLUID RELIEF PROCEDURE

To reduce the risk of serious bodily injury, including fluid injection, splashing in the eyes or on the skin, or injury from moving parts, always follow this procedure whenever you shut off or service the pump.

1. Shut off the power to the pump.
2. Close the bleed-type master air valve.
3. Activate the gun to relieve pressure.
4. Open the pump drain valve to help relieve fluid pressure in the displacement pump. Actuating the gun to relieve pressure may not be sufficient. Have a container ready to catch drainage.
5. Leave the drain valve(s) open until you are ready to spray again.
If you suspect that the spray tip or hose is completely clogged, or that pressure has not been fully relieved after following the steps above, very slowly loosen the tip retainer or hose end coupling and relieve pressure gradually, then loosen completely. Now clear the tip or hose.
6. To prevent hazardous concentrations of toxic and/or flammable vapors, spray only in a properly ventilated spray booth. Never operate the spray gun unless the ventilating fans are operating.



3. EQUIPMENT MISUSE HAZARD

Any misuse of the gun, spray equipment or accessories, such as over pressuring, modifying parts, using incompatible chemicals and fluid, or using worn or damaged parts, can cause them to rupture and result in fluid injection or other serious bodily injury such as splashing in the eyes or on the skin, fire, explosion, or property damage.

Never alter or modify any part of this gun; doing so could cause it to malfunction.

Check the gun and all spray equipment regularly and repair or replace worn or damaged parts immediately.

This spray gun has a 5,000psi (350bar) maximum fluid working pressure. Never exceed the working pressure.

4. FIRE OR EXPLOSION HAZARD

Static electricity is created by the high velocity flow of fluid through the pump and hose.

If the spray equipment is not properly grounded, sparking may occur, and the system may become hazardous.

Sparking may also occur when plugging in or unplugging a power supply cord.

If you experience any sparking or feel even a slight shock, stop spraying immediately.

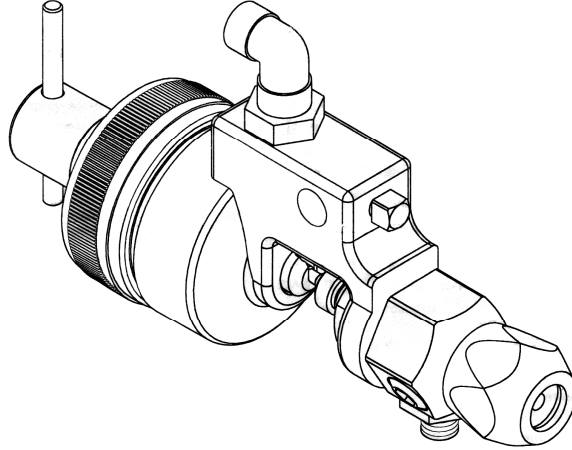
5. FLUSHING SAFETY

Before flushing, be sure the entire system and flushing pails are properly grounded. Follow the pressure relief procedure, and remove the spray tip from the gun.

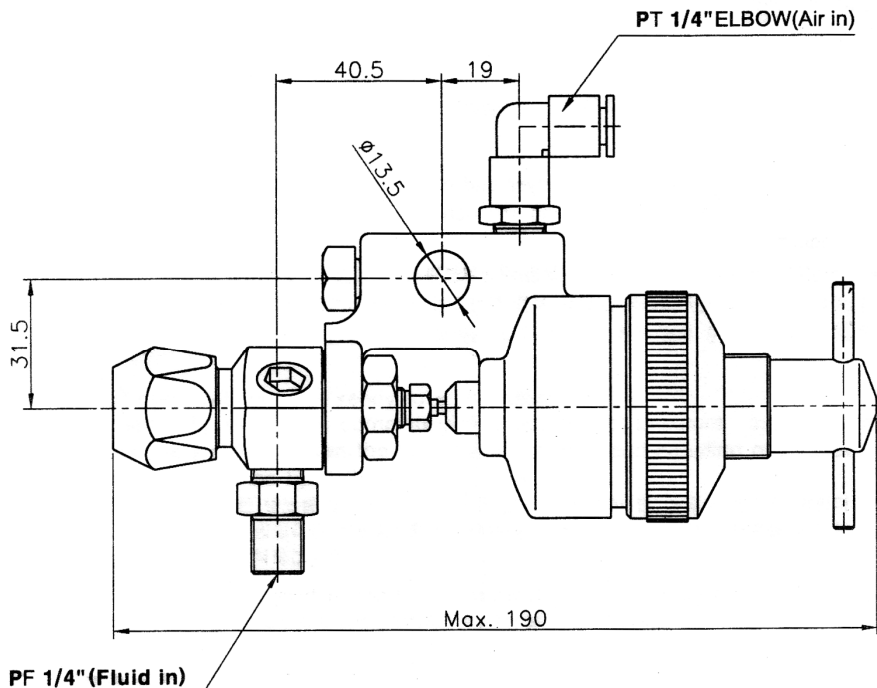
6. GROUNDING

To reduce the risk of static sparking, ground the sprayer and all other spray equipment used or located in the spray area. Check your local electrical code for detailed grounding instructions for your area and type of equipment.

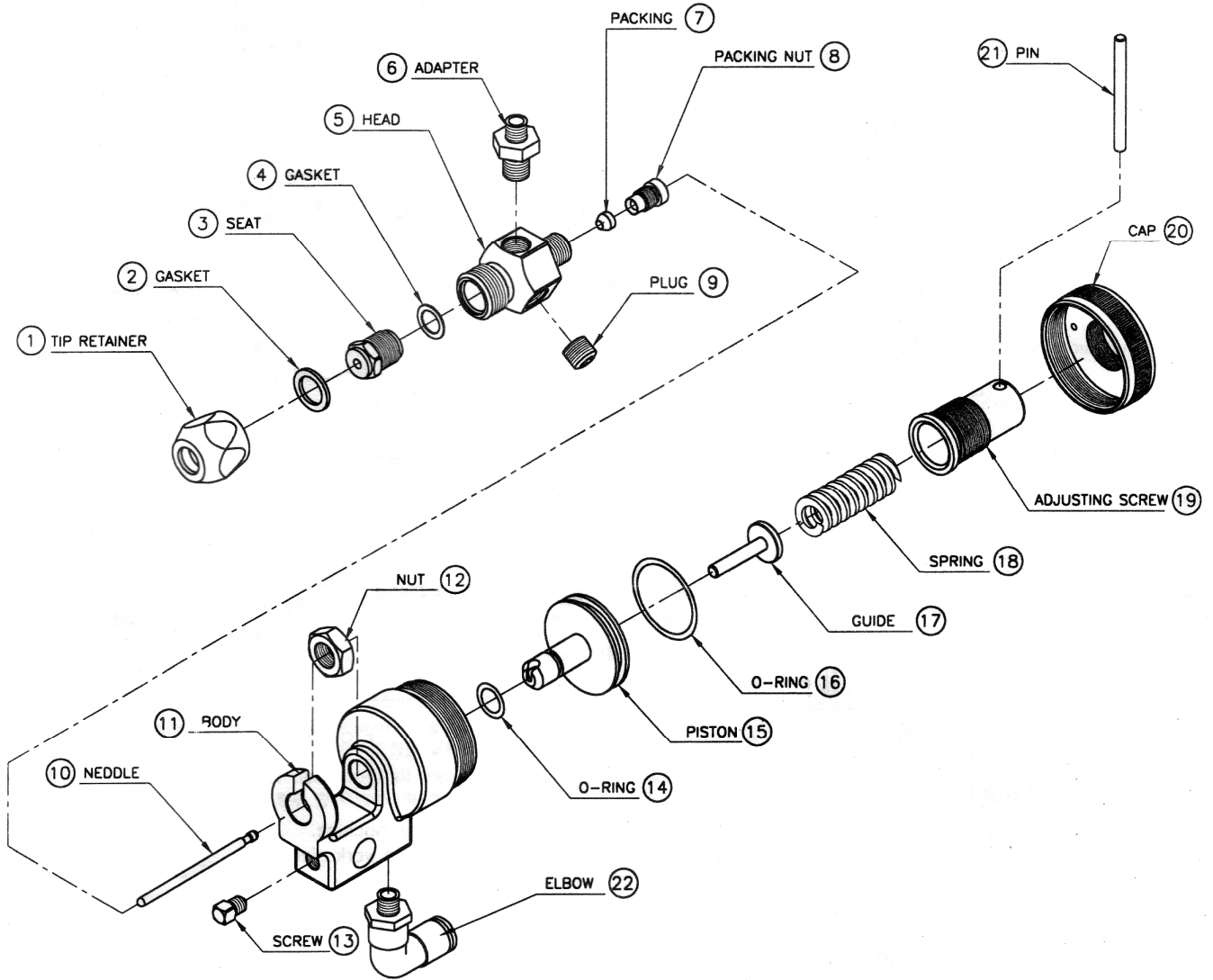
X-900BD TECHNICAL DATA



Maximum working pressure	5,000psi (350bar)
Application	Buffing compounds Zic-rich materials Fabricated heavy materials
Core material	Aluminum
Air inlet	1/4" PT ELBOW (Ø8 Hose)
Fluid inlet	1/4" PF
Fluid return	1/4" PT



X-900BD PART DRAWING



NO.	PART NO.	DESCRIPTION	QTY	NO.	PART NO.	DESCRIPTION	QTY
1	AX/02-900-001	Tip retainer	1	12	AX/02-900-012	Nut	1
2	AX/02-900-002	Gasket	1	13	AX/02-900-013	Screw	1
3	AX/02-900-003	Seat	1	14	AX/02-900-014	O-Ring	1
4	AX/02-900-004	Gasket	1	15	AX/02-900-015	Piston	1
5	AX/02-900-005	Head	1	16	AX/02-900-016	O-Ring	1
6	AX/02-900-006	Adapter	1	17	AX/02-900-017	Guide	1
7	AX/02-900-007	Packing	1	18	AX/02-900-018	Spring	1
8	AX/02-900-008	Packing nut	1	19	AX/02-900-019	Adjusting screw	1
9	AX/02-900-009	Plug	1	20	AX/02-900-020	Cap	1
10	AX/02-900-010	Needle	1	21	AX/02-900-021	Pin	1
11	AX/02-900-011	Body	1	22	AX/02-900-022	Elbow	1

INSTALLATION MANUAL

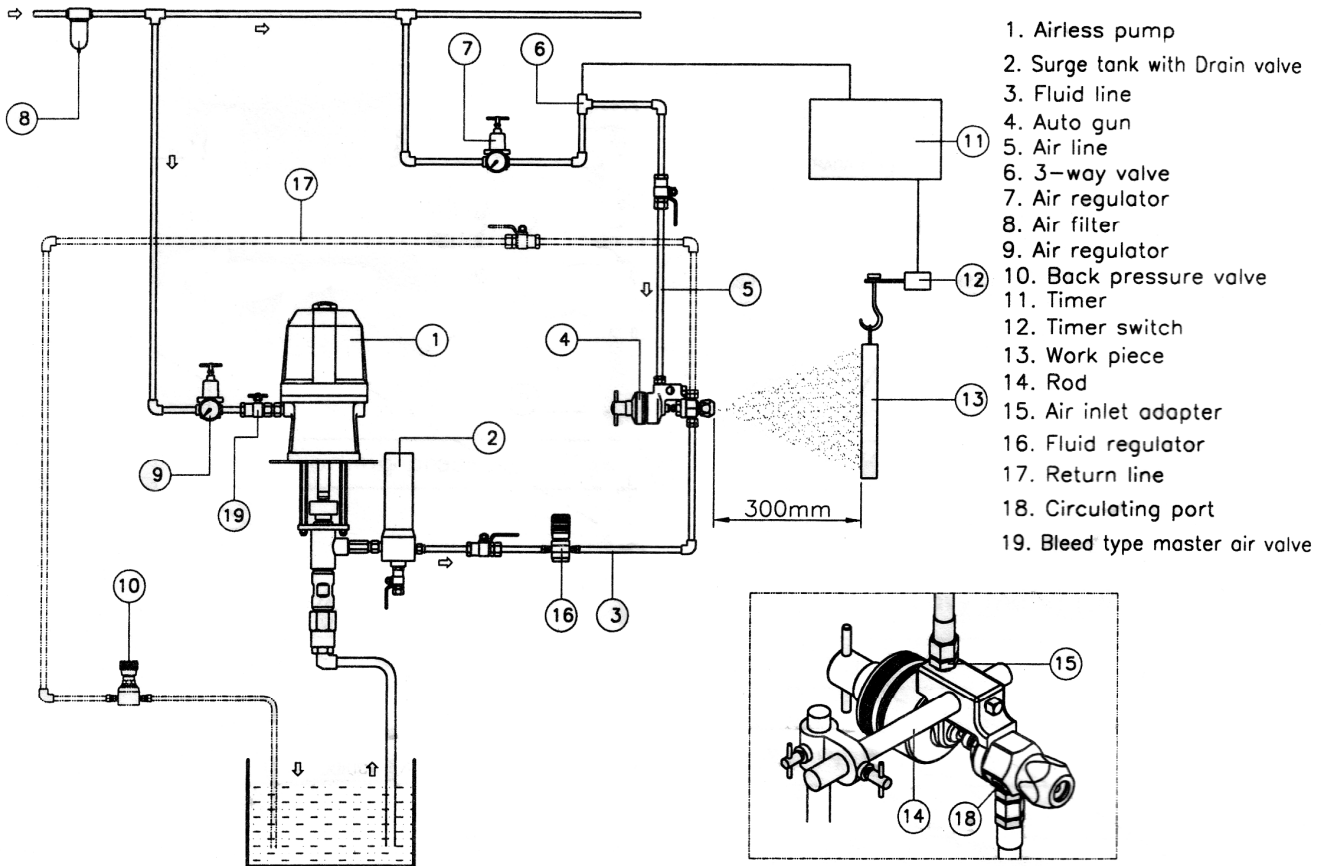


Fig 1. TYPICAL INSTALLATION DRAWING

Fig 2

1. MOUNT GUN

Mount the gun on a 13mm diameter rod on a mounting fixture or spray machine. See Fig 1 and Fig 2. The tip of the gun should be 300mm from the surface of the work piece.

2. CONNECT THE AIR LINES

Clean all lines and connections of dirt, burrs etc. and blow them out with clean air before connecting to the system. The air supply line should contain an air filter to remove harmful dirt and moisture from the compressed air. Use a normally closed 3-way air solenoid valve to control the spray gun. Attach a grounded air supply line from the 3-way valve to the 1/4" elbow air inlet adapter of the gun.

3. CONNECT THE FLUID LINES

Connect a grounded fluid line from the pump to the 1/4" PF fluid inlet adapter of the gun. You should install a fluid pressure regulator to control fluid pressure to the gun. In a circulating



system, connect a return line from the 1/4" PT circulating port to the back pressure valve.

4. SYSTEM ACCESSORIES

Two accessories are required in your system: a bleed type master air valve and a fluid drain valve. These accessories help reduce the risk of serious bodily injury including fluid injection, splashing in the eyes or on the skin, and injury from moving parts if you are adjusting or repairing the pump.

The bleed type master air valve is required only with air powered pumps. It relieves air trapped between this valve and the pump after the air regulator is shut off. Trapped air can cause the pump to cycle unexpectedly. Locate the valve close to the pump.

The fluid drain valve assists in relieving fluid pressure in the displacement pump, hose and gun.

5. FLUSH THE SYSTEM

Before flushing, always follow the pressure relief procedure and remove the spray tip. Start the pump and flush the system with a compatible solvent. Check the system under pressure for leaks; if any are found, follow the pressure relief procedure and repair the leaks. Pressurize the system again and make sure the leaking has stopped.

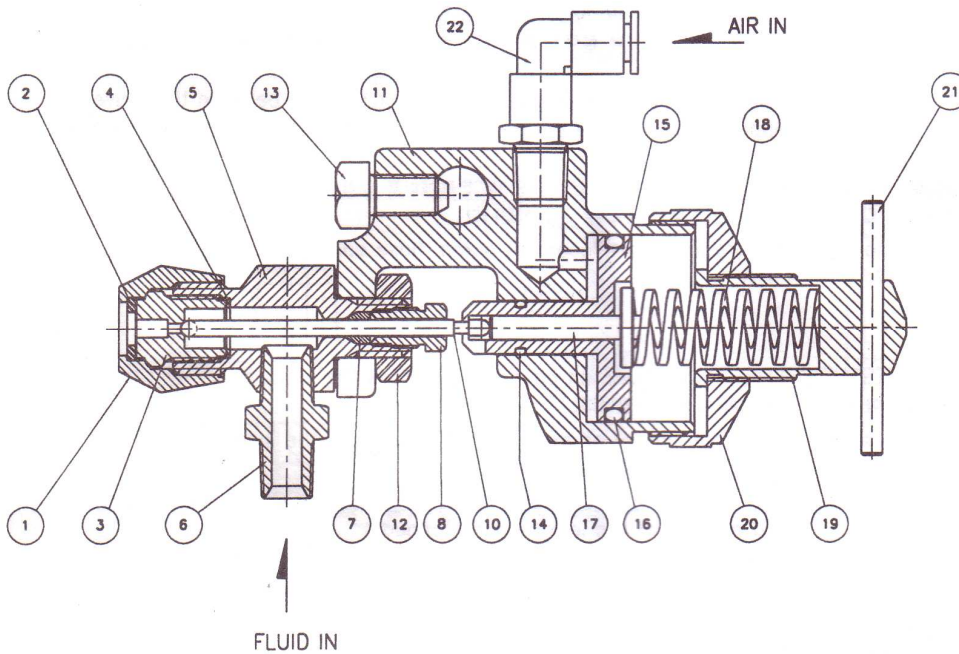
6. CHANGING THE SPRAY TIP

Before adjusting the spray pattern or replacing the tip, follow the pressure relief procedure and close all air valves. Unscrew the tip retainer and install the tip, then tighten the retainer. Be sure the gasket is installed between the tip and valve seat to prevent leaking. If you are using a tip filter accessory kit, remove the tip retainer and gasket and install the kit with your tip.

7. GROUNDING

Proper grounding is essential to maintaining a safe system.

INSTALLATION MANUAL



NO.	DESC.	QTY
1	Tip retainer	1
2	Gasket	1
3	Seat	1
4	Adapter	1
5	Head	1
6	Adapter	1
7	Packing	1
8	Packing nut	1
9	Plug	1
10	Needle	1
11	Body	1
12	Nut	1
13	Screw	1
14	O-Ring	1
15	Piston	1
16	O-Ring	1
17	Guide	1
18	Spring	1
19	Adjusting screw	1
20	Cap	1
21	Pin	1
22	Elbow	1

- Check the tightness of the spray tip retaining nut.
- Before each day's operation, lubricate the exposed portions of the needle and the piston with a lubricant compatible with the fluid to be sprayed.
- Use a fluid filter to remove particles and sediment that could clog the tip.
- Set the actuating mechanism (timer) so that the gun will start spraying before meeting the work piece and stop spraying just after the work piece has passed.
- Set the actuating air to at least 50psi (3bar) and start the pump.
- The spray tip orifice size and angle determines coverage and pattern. Don't try to get more coverage by increasing the pump pressure – use a larger tip instead.
- In a circulating system, adjust the back pressure valve to provide constant system back pressure for all guns while maintaining proper pressure for fluid circulation. Refer to the installation manual.



TROUBLESHOOTING CHART

PROBLEM	CAUSE	SOLUTION
Uneven spray pattern.	<ul style="list-style-type: none">• Fluid pressure too low.	<ul style="list-style-type: none">• Increase pressure to pump, or adjust fluid pressure regulator.
Tails or fingers in spray pattern.	<ul style="list-style-type: none">• Fluid pressure too low.• Fluid too viscous, or supply is low.• Tip orifice too small for fluid.	<ul style="list-style-type: none">• Increase pressure to pump, or adjust fluid pressure regulator.• Decrease viscosity or refill supply.• Change to a larger tip.
Gun will not stop spraying.	<ul style="list-style-type: none">• Fluid pressure too high.• Fluid needle binding.• Obstructed or worn needle or seat.	<ul style="list-style-type: none">• Reduce pressure to pump, or adjust fluid pressure regulator.• Clean/repair needle.• Clean/replace needle.
Gun will not spray.	<ul style="list-style-type: none">• Pump not operating.• Fluid line clogged.• Fluid valve closed.• Clogged spray tip or needle seat.• Worn or dry piston packings.	<ul style="list-style-type: none">• Refer to separate pump manual.• Clear fluid line.• Open fluid valve.• Clear spray tip and needle.• Replace piston packings.
Distorted spray pattern.	<ul style="list-style-type: none">• Fluid pressure too low.• Clogged spray tip or needle seat.• Fluid buildup on tip or worn tip.	<ul style="list-style-type: none">• Increase pressure to pump, or adjust fluid pressure regulator.• Clean spray tip and needle.• Clean or replace spray tip.

1. Relief air pressure before servicing or cleaning.
2. The compressor should provide sufficient air pressure.
3. Keep optimum air pressure with the air regulator.
4. Put the gun on safety position when not using.
5. Flush the pump and spray system for long term storage.
6. Flush the tip and filter after working.
7. Request a professional airless spraying personnel to repair this gun.