

INSTRUCTIONS FOR:

HVLP SPRAY GUN

Models: **HVLP750 Suction feed**
HVLP751 Gravity feed

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE OR PERSONAL INJURY, AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

- ✓ Familiarise yourself with this products application and limitations, as well as the specific potential hazards peculiar to the spray gun.
- ☐ **WARNING!** Disconnect the spray gun from the air supply before changing accessories, servicing or performing any maintenance.
- ✓ Paint cup remains pressurised after gun is disconnected from air line. **DO NOT pull the trigger, but depressurise by gently opening cup.**
- ✓ Maintain the spray gun in good condition (use an authorised service agent).
- ✓ Replace or repair damaged parts. *Use recommended parts only. Non authorised parts may be dangerous and will invalidate the warranty.*
- ✓ Keep the spray gun clean for best and safest performance.
- ✓ Ensure the air system is suitable to the spray gun air consumption (400lt./min.-14.2cfm.).
- ✓ Wear approved safety respiratory protection and safety eye goggles.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings, and other loose jewellery, and tie back long hair.
- ✓ Locate the spray gun in an adequate working area for its function, keep area clean and tidy and free from unrelated materials, and ensure there is adequate ventilation and lighting.
- ✓ Keep children and unauthorised persons away from the working area.
- ✓ When not in use ensure the air supply is turned off.
- ✓ Avoid unintentional starting.
- ✗ DO NOT point spray gun at yourself, at other persons or animals.
- ✗ DO NOT carry the by the hose, or yank the hose from the air supply.
- ✗ DO NOT use the spray gun for any purpose other than for which it is designed.
- ✗ DO NOT allow untrained persons to operate the spray gun.
- ✗ DO NOT get the spray gun wet or use in damp or wet locations or areas where there is condensation.
- ✗ DO NOT operate the spray gun if any parts are missing or damaged as this may cause failure or possible personal injury.
- ✗ DO NOT direct air from the air hose at yourself or others.

2. DESCRIPTION & SPECIFICATIONS

The HVLP spray gun consists of an anodised body which resists corrosion and has a low affinity for paint making this unit easy to clean. The gun also has adjustable paint and fan width controls. HVLP (High Volume - Low Pressure) uses far less air pressure but at a far higher throughput. The results of this is that very much more of the paint stays on the panel and less disappears into the atmosphere.

SPECIFICATIONS.

Model HVLP 750 Suction Feed

Standard set-up1.7mm
 Available set-ups1.3,1.5,1.9mm
 Air pressure40PSI
 Air consumption16CFM

Model HVLP 751 Gravity Feed

Standard set-up1.5mm
 Available set-ups1.3,1.5,1.9mm
 Air pressure40PSI
 Air consumption16CFM

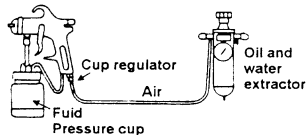
3. AIR SUPPLY CONNECTION

3.1. Hooking up to air supply.

There are various methods of feeding compressed air to the gun unit and are described as follows:

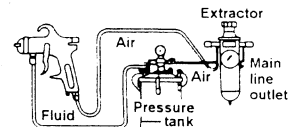
3.1.1. Syphon feed cup hook-up

Air pressure for atomization is regulated at the extractor. The amount of fluid is adjusted by the fluid control screw on the gun



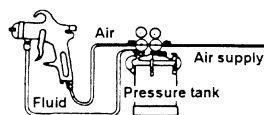
3.1.3. Pressure feed tank hook-up (single regulator)

Air pressure for atomization is regulated at the extractor, and fluid pressure at the tank regulator



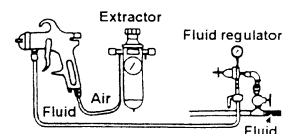
3.1.2. Pressure feed cup hook-up

Air pressure for atomization is regulated at the extractor and fluid pressure at the cup regulator. For heavy fluids and internal mix nozzle spraying, the fluid is adjusted by the control screw on the gun.



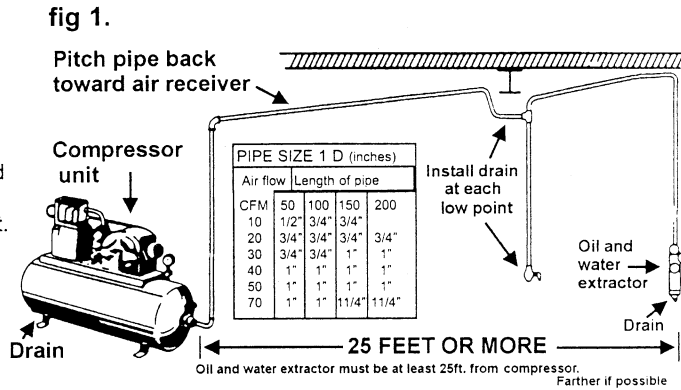
3.1.4. Pressure feed tank hook-up (double regulator)

Air pressure for atomization and fluid supply is regulated by two individual air regulators on the tank



3.2. Air supply form compressor unit. (fig 1).

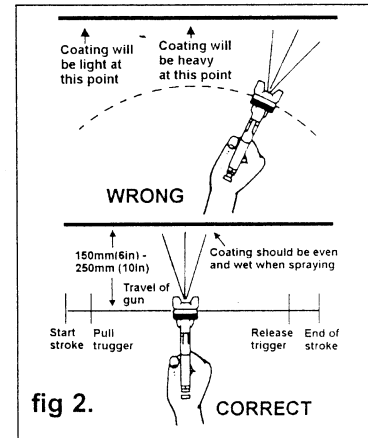
- 3.2.1. The oil and water extractor should not be mounted on or near the air compressor. The air temperature is greatly increased during compression. As the air cools down to room temperature (in the airline on the way to the spray gun) the moisture in it condenses.
- 3.2.2. For maximum effectiveness, the oil and water extractor should be mounted at some point in the air supply system where the temperature of compressed air in the line is likely to be lowest.
- 3.2.3. Air lines must be properly drained. Pitch all air lines back toward the compressor so that condensed moisture will flow back into the receiver where it can be drained off. Each low point in the air line acts as a water trap. Such points must be fitted with an easily accessible drain.



4. OPERATING INSTRUCTIONS

4.1. GENERAL

- 4.1.1. For best results, make sure to handle the gun correctly. It should be held perpendicular to the surface being sprayed and move parallel to it. Start the stroke before squeezing the trigger and release the trigger before finishing the stroke. This will enable you to accurately control the gun and material (fig 2).
- 4.1.2. Spray from a distance of about 6 to 10 inches depending on the material and the atomizing pressure. The material deposited should always be even and wet. Each stroke must overlap the preceding stroke to obtain a uniform finish. To reduce over spray and obtain maximum efficiency, spray with the lowest possible atomizing air pressure.
- 4.1.3. Controlling the fan spray and the fluid
- If a fluid pressure tank is used, the amount of fluid can be controlled by regulating the pressure on the tank. Otherwise, use the fluid control screw on the gun.
 - As the width of the spray is increased more material must be allowed to pass through the gun to obtain the same coverage on the increased area.
 - The direction of the fan spray, either horizontal or vertical, is obtained by turning the air nozzle to the desired position then tightening the retaining ring.



4.2. SYPHON SPRAYING

Set the atomization pressure at approximately 38 psi for lacquer and 36 psi for enamel then test spray. If the spray is too fine, reduce the air pressure or open the fluid control screw. If the spray is too coarse, close the fluid control screw. Adjust the pattern width and repeat the adjustment of the spray if necessary.

4.3. PRESSURE SPRAYING

After selecting the correct size fluid nozzle, set the fluid pressure for the desired flow. Open the atomization air and test spray. If the spray is too fine, reduce the air pressure. If it is too coarse, raise the air pressure. Adjust the pattern width and repeat the adjustment of the spray. Keeping the fluid control screw in the open position will reduce fluid needle wear.

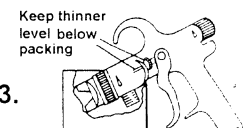
NOTE: To reduce over spray and obtain maximum efficiency, spray with the lowest possible atomization air pressure.

5. MAINTENANCE & CLEANING

Disconnect from the air supply before attempting any maintenance or cleaning. **Remember to release pressure from cup once disconnected from the air line.** When reassembling after maintenance, be sure to take care when screwing parts together. At first screw parts hand tight to avoid cross-threading. If a part cannot easily be turned by hand, check that you have the correct part, or unscrew, realign and try again. **DO NOT** use excessive force when reassembling.

5.1. Spray gun

- 5.1.1. Immerse the *front end of the gun only* in solvent until the solvent just covers the fluid connection.
- 5.1.2. Use a bristle brush and solvent to wash off accumulated paint.
- 5.1.3. Do not immerse the entire gun in solvent. This will cause lubricants to dissolve and packing to dissolve and dry out. Dirty solvent may also clog the small narrow passages in the gun (fig 3).
- 5.1.4. Wipe the outside of the gun with a dampened solvent rag.
- 5.1.5. Lubricate the gun daily with a light machine oil. Be sure to lubricate the fluid needle packing, air valve packing, side port control packing and trigger pivot point. Do not use lubricants containing silicone.
- 5.1.6. When finished spraying, flush the gun through with clean thinners.



5.2. Air nozzle, fluid nozzle and needle assembly

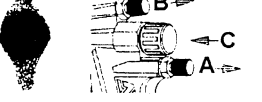
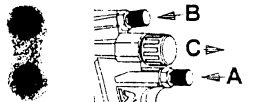
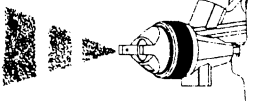
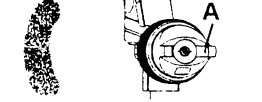
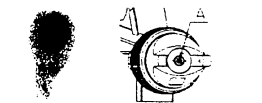
- 5.2.1. To clean the nozzles, soak them in solvent to dissolve any dried material then blow them clean with air. Handle all nozzles carefully and do not make any alterations in the gun.
- 5.2.2. If you need to probe the holes in the nozzles, be sure to use a tool that is softer than brass; do not use metal instruments.
- 5.2.3. Adjust the fluid needle valve so that when the gun is triggered, air flow occurs before fluid flow.

5.3. Further cleaning hints and tips

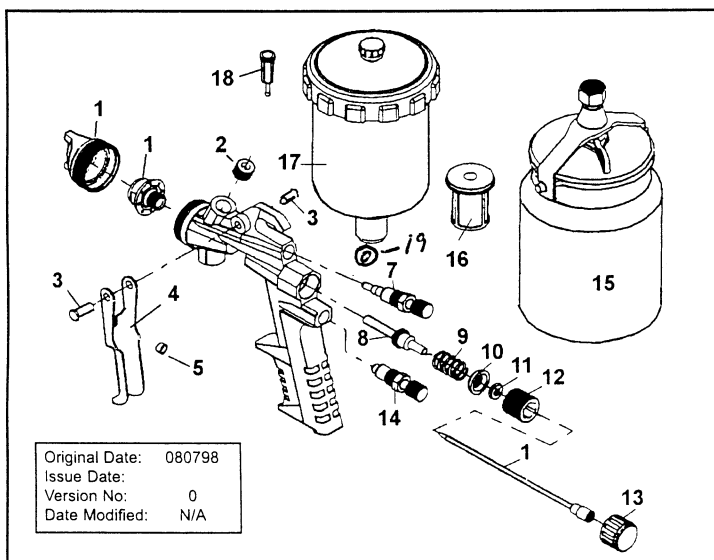
- 5.3.1. When cleaning with a cup, a compatible solvent should be siphoned through the gun by inserting the tube from the siphon cup in an open container of solvent. Trigger the gun intermittently to thoroughly flush passageways and internal parts.

- 5.3.2. When cleaning with a pressure cup, shut off the air supply to the pressure tank and release the pressure in the tank. Hold a piece of cloth over the gun nozzle and pull the trigger. The air will back up through the fluid nozzle and force the fluid out of the hose and into the tank. Remove paint from the tank, clean the tank and put enough compatible solvent into the tank to clean the hose and gun thoroughly. Spray this through the gun while triggering the gun intermittently until it is clean, then blow out the fluid hose to dry it. Remove all traces of materials by attaching it to the air line.

6. TROUBLESHOOTING

| THE PROBLEM | THE CAUSE | THE SOLUTION |
|---|--|--|
|  <p>Poor atomization / heavy centre pattern</p> | Fluid flow is too high for the pressure and air quantity | <ol style="list-style-type: none"> 1 Increase air pressure adjusting regulator (A) and increase air quantity adjusting regulator (B). 2. Reduce paint flow with regulator (C). 3 Paint could be too thick, in such a case dilute it. |
|  <p>Heavy atomization poor centre pattern</p> | Air pressure and air quantity too high for paint flow | <ol style="list-style-type: none"> 1 Reduce air pressure adjusting regulator (A). 2 Reduce air quantity adjusting regulator (B) and increase fluid flow with regulator (C). |
|  <p>Intermittent spray pattern</p> | Air entering the fluid supply | <ol style="list-style-type: none"> 1 Tighten the connection between the gun and the cup. 2 Tighten fluid nozzle with gun spanner 3 Check if hole on the bottom of the cup is blocked 4 Check if paint pot is empty 5 Blocked air hole in pot lid. |
|  <p>Heavy right or left side pattern</p> | One of the horn holes can be blocked (A). In order to check it, turn the air cap 180°, if the faulty pattern is now upside down the hole must be cleaned | <ol style="list-style-type: none"> 1. Place the air cup in solvent. 2. Clean hole with compressed air or with a wooden toothpick. DO NOT use a metal probe which will damage the hole. |
|  <p>Top heavy or bottom heavy pattern</p> | Possible paint build-up between fluid nozzle and air cap. | <ol style="list-style-type: none"> 1. Clean the air cap and the fluid nozzle, check also if they match correctly. 2. Check needle for damage. |

7. PARTS LIST



| Item | Part No | Description |
|------|--------------|--------------------------|
| 1A | 142/BH088859 | Complete Nozzle 1.3 |
| 1B | 142/BH088860 | Complete Nozzle 1.5 |
| 1C | 142/BH088861 | Complete Nozzle 1.7 |
| 1D | 142/BH088854 | Complete Nozzle 1.9 |
| 2 | 142/BS088913 | Nut |
| 3 | 142/BF088632 | Trigger Stud |
| 4 | 142/BL088645 | Trigger |
| 5 | 142/BS088195 | Piston Cover |
| 7 | 142/BH088494 | Complete regulator |
| 8 | 142/BH088165 | Air Control Piston |
| 9 | 142/BA108014 | Needle Spring |
| 10 | 142/BS088085 | Guide Washer |
| 11 | 142/BD088086 | Piston Seal |
| 12 | 142/BS088118 | Bush |
| 13 | 142/BI088114 | Needle Nut |
| 14 | 142/BH088506 | Air Regulator |
| 15 | 142/BH089040 | Suction Feed Cup |
| 16 | 142/AH085511 | Filter, Suction Feed Cup |
| 17 | 142/BH088697 | Gravity Feed Cup |
| 18 | 142/AH085521 | Filter, Gravity Feed Cup |
| 19 | 142/BE088732 | TEFLON SEAL |

NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

IMPORTANT: No responsibility is accepted for incorrect use of this product. **WARRANTY:** Guarantee is 12 months from purchase date. Proof of purchase will be required for any claim. **INFORMATION:** Please call us for a copy of our latest catalogue



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