

# Instructions For: GRAVITY FEED REFINISHING GUN

## Model: SG4

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 THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/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. Unauthorised parts may be dangerous and will invalidate the warranty.*
- ✓ 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 the spray gun clean for best and safest performance.
- ✓ Ensure the air system is suitable to the spray gun air consumption, (see specifications).
- ✓ Wear approved respiratory protection and safety eye goggles.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings, and other loose jewellery, and tie back long hair.
- ✓ Keep children and unauthorised persons away from the working area.
- ✓ When not in use ensure the air supply is turned off.
- ✓ Avoid unintentional operation.
- ✗ DO NOT point spray gun at yourself, at other persons or animals.
- ✗ DO NOT carry the by the air 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 gun if any parts are missing or damaged as this may cause failure or personal injury.
- ✗ DO NOT direct air from the air hose at yourself or others.
- ✓ When not in use switch the spray gun off, and disconnect from the air supply.



### 2. INTRODUCTION AND SPECIFICATIONS

The SG4 is suitable for applying base coats. Supplied with a spun aluminium gravity feed pot and comfortable composite gun handle.

Standard Set up: . . . . .1.4mm  
 Air Pressure: . . . . .40-60psi  
 Air Consumption: . . . . .4.5 - 9.0cfm  
 Air Connection . . . . .1/4" BSP

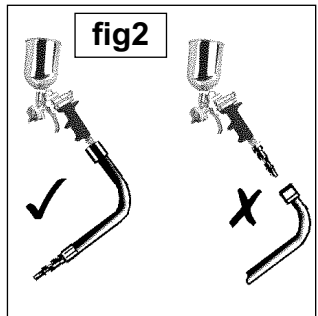
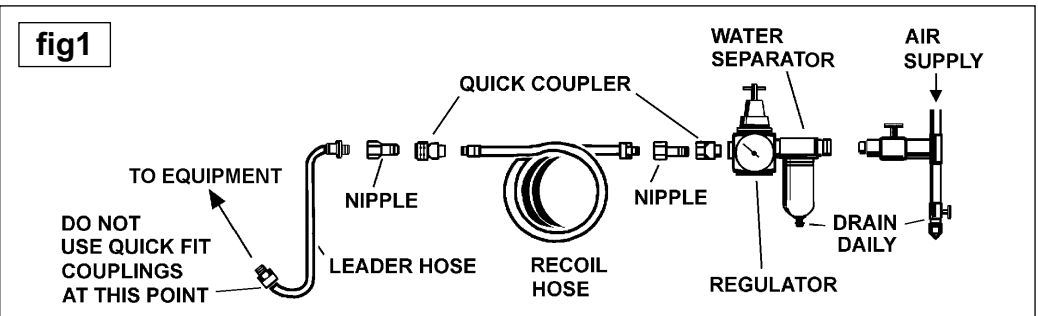
### 3. AIR SUPPLY CONNECTION

#### 3.1. Air Supply

- 3.1.1. Ensure spray gun air valve (or trigger) is in the "off" position before connecting to the air supply.
- 3.1.2. You will require an air pressure of 60psi, and an air flow according to specification.
- 3.1.3. ❑ **WARNING!** Ensure the air supply is clean and does not exceed 60 psi while operating the spray gun. Too high an air pressure and unclean air will shorten the product life due to excessive wear, and may be dangerous causing damage and/or personal injury.
- 3.1.4. Drain the air tank daily. Water in the air line will ruin the paint finish and damage the spray gun.
- 3.1.5. Clean air inlet filter weekly. Recommended hook-up procedure is shown in fig 1.
- 3.1.6. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres). The minimum hose diameter should be 1/4" I.D. and fittings must have the same inside dimensions.
- 3.1.7. Keep hose away from heat, oil and sharp edges. Check hose for wear, and make certain that all connections are secure.

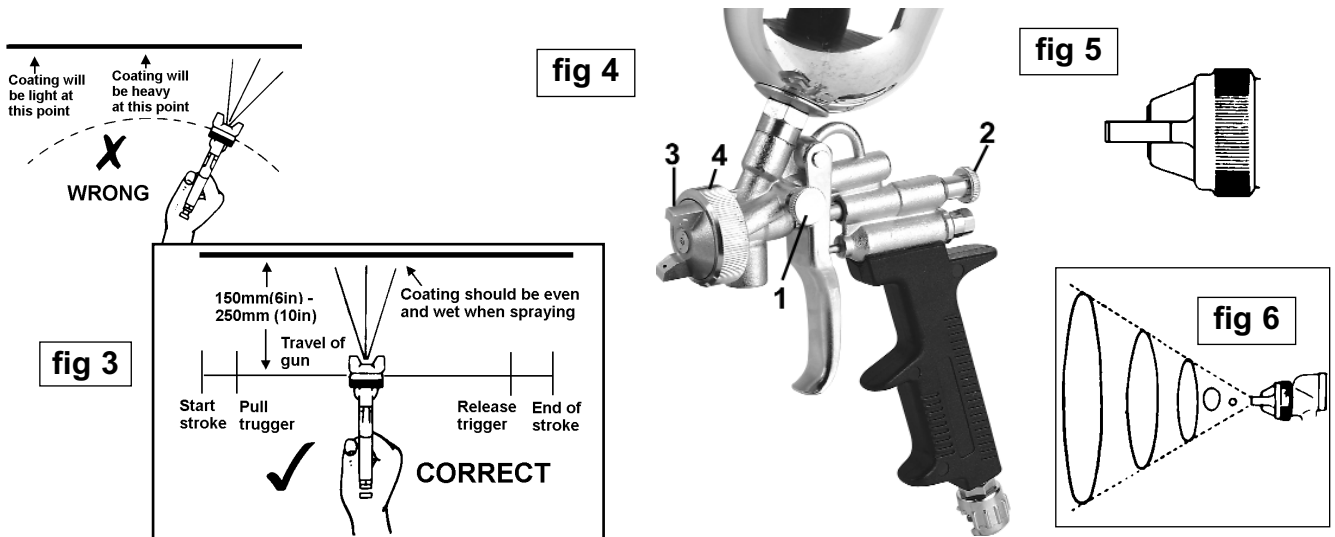
#### 3.2. Couplings.

Vibration may cause failure if a quick change coupling is connected directly to the spray gun. To overcome this, connect a leader hose to the spray gun. A quick change coupling may then be used to connect the leader hose to the air line recoil hose. See fig 1 & 2.



## 4. OPERATING INSTRUCTIONS

- 4.1. For best results, make sure to handle the gun correctly. It should be held perpendicular to the surface being sprayed and moved 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 3).
- 4.2. 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.
- 4.3. Controlling the fan spray and the fluid.
  - a) Use the needle adjustment knob (fig 4.2) to increase or decrease the amount of paint flow.
  - b) The atomizing air flow is controlled by knob (1).
  - b) As width of spray is increased more material must pass through the gun to obtain the same coverage on the increased area.
  - c) Turn the air nozzle (3) to achieve a horizontal or vertical fan spray. Lock the nozzle with retaining ring (4).The spray pattern of the gun is variable from round to flat with all patterns in between. In normal operation, the wings on the nozzle are horizontal as fig 4. This provides a vertical fan-shaped pattern which gives maximum uniform and even coverage when moving the gun back and forth, parallel to the work surface fig 5.



## 5. CLEANING & MAINTENANCE

**FOR OPTIMUM PERFORMANCE IT IS VERY IMPORTANT TO ENSURE THE GUN IS CORRECTLY CLEANED AFTER EACH USE.**

Disconnect from the air supply before attempting any cleaning or maintenance.

### 5.1. Cleaning the gun

- 5.1.1. Immerse the front end of the gun only in solvent. The solvent should just cover 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 as this will cause lubricants on the rubber seals to dissolve. Dirty solvent may also clog narrow passages in the gun.
- 5.1.4. Flush the gun through with clean thinners.
- 5.1.5. Wipe the outside of the gun with a dampened solvent rag.

### 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.




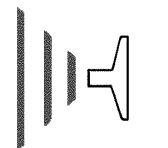
### 5.4. Maintenance

Take care when re-assembling. 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 re-assembling.

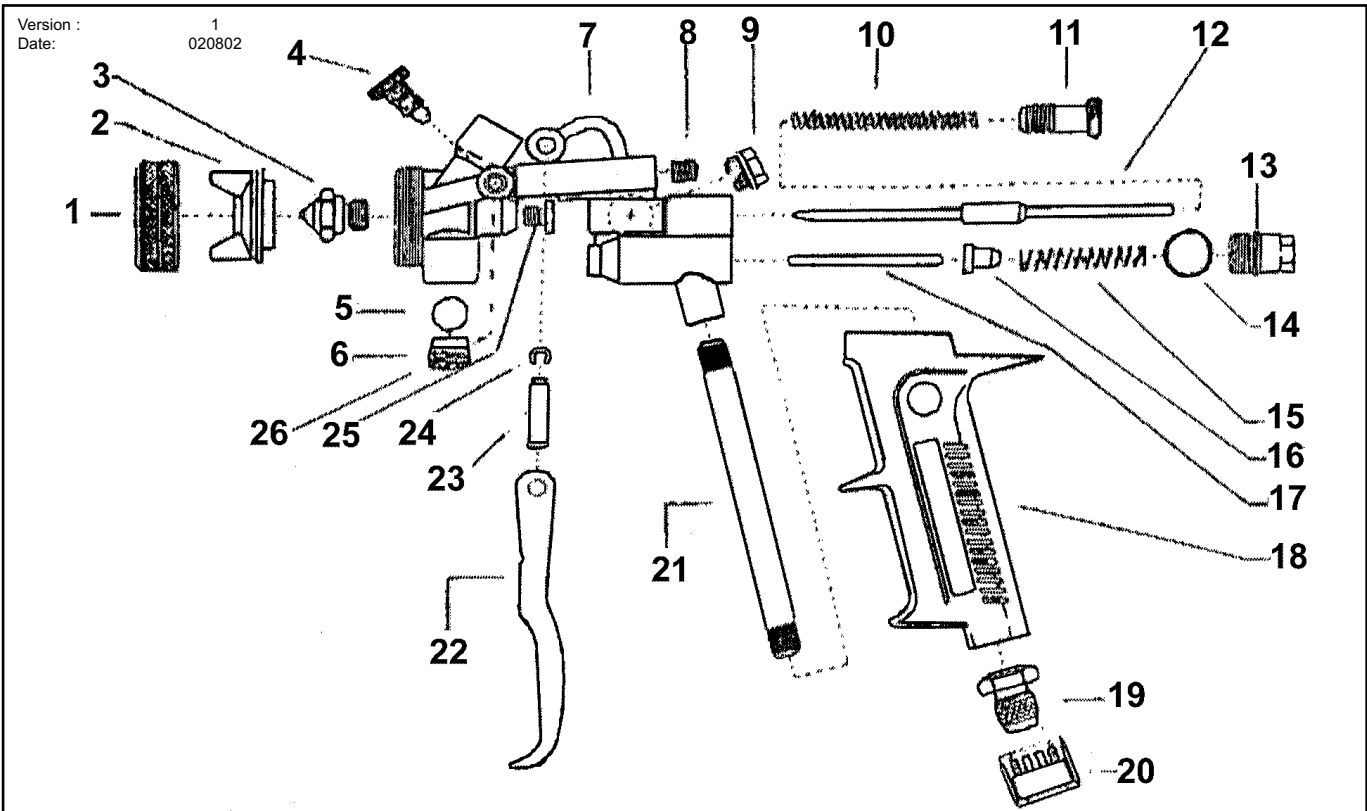
- 5.4.1. Lubricate the gun daily with a light machine oil.
- 5.4.2. If you change the nozzle size, ensure the complete nozzle set is exchanged. Insert paint nozzle before putting the paint needle in.
- 5.4.3. To change the needle packing use the socket spanner provided. Note: Handle the teflon seal and self tensioning spring with care.

## 6. TROUBLESHOOTING

A faulty spray is usually caused by improper cleaning or dried material around the fluid nozzle tip or in the air nozzle. Soak these parts in a solvent that will soften the dried material and remove with a brush or a cloth. Never use metal instruments to clean the air or fluid nozzles. These parts are carefully machined and any damage to them will cause a faulty spray. If either the air nozzle or fluid nozzle is damaged, the part must be replaced before a perfect spray can be obtained.

VIEW OF PROBLEM	POSSIBLE REASON FOR PROBLEM	SOLUTION
	Dried material in a dirty side port restricts passage of air. Greater flow of air from the cleaner side port forces a fan pattern in the direction of the clogged side.	Dissolve material in the side ports with thinner, then blow the gun clean. Do not poke into the opening with metal instruments.
	Dried material around the outside of the fluid nozzle tip restricts the passage of atomizing air at one point through the centre opening of the air nozzle and results in the pattern shown. This pattern can also be caused by a loose air nozzle.	Remove the air nozzle and wipe off fluid tip using a rag dampened with thinner. Tighten the air nozzle.
	A split spray or one that is heavy on each end of a fan pattern and weak in the middle is usually caused by too high an atomization air pressure or by attempting to get too wide a spray with thin material.	Dried material in a dirty side port restricts passage of air. Greater flow of air from the cleaner side port forces a fan pattern in the direction of the clogged side.
	<ol style="list-style-type: none"> <li>Dirt between the fluid nozzle seat and body or loosely installed fluid nozzle will cause the gun to spit.</li> <li>A loose or defective swivel nut on the siphon cup or material hose can cause spitting.</li> </ol>	<ol style="list-style-type: none"> <li>Remove the fluid nozzle, clean the back of the nozzle and the nozzle seat in the gun body using a rag dampened with thinner. Replace the nozzle and secure it tightly against the body.</li> <li>Tighten or replace the swivel nut.</li> </ol>
Material bubbles or "boils" in paint cup.	Atomised air flowing through the paint channel to pot. The paint nozzle is not tight enough. Air nozzle is not completely screwed in. The air net clogged and the seat is defective or nozzle insert is damaged.	Tighten, clean or replace parts accordingly.

## 7. PARTS LIST



ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
1	SG4C-01	AIR CAP RETAINING RING	11	SG4C-11	NEEDLE ADJUSTMENT	21	SG4C-21	AIR TUBE
2	SG4C-02	AIR CAP	12	SG4C-12	NEEDLE	22	SG4C-22	TRIGGER
3	SG4C-03	FLUID NOZZLE	13	SG4C-13	AIR VALVE NUT	23	SG4C-23	TRIGGER PIN
4	SG4C-04	FAN ADJUSTMENT	14	SG4C-14	AIR VALVE GASKET	24	SG4C-24	SEEGER
5	SG4C-05	GASKET	15	SG4C-15	AIR VALVE SPRING	25	SG4C-25	PACKING NUT
6	SG4C-06	NUT	16	SG4C-16	AIR VALVE	26	SG4C-26	PACKING VALVE
7	SG4C-07	BODY	17	SG4C-17	AIR VALVE ROD	27	SG4C-SET-1.2	NOZZLE SET 1.2MM
8	SG4C-08	SCREW	18	SG4C-18	HANDLE	28	SG4C-SET-1.4	NOZZLE SET 1.4MM
9	SG4C-09	RIGHT SCREW	19	SG4C-19	AIR INLET			
10	SG4C-10	SPRING FOR PAINT NEEDLE	20	SG4C-20	SCREWING NUT			

**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 liability is accepted for incorrect use of product.

**WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim.

**INFORMATION:** For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



Sole UK Distributor  
Sealey Group,  
Bury St. Edmunds, Suffolk.



01284 757500



01284 703534

E-mail: [sales@sealey.co.uk](mailto:sales@sealey.co.uk)  
Web: [www.sealey.co.uk](http://www.sealey.co.uk)