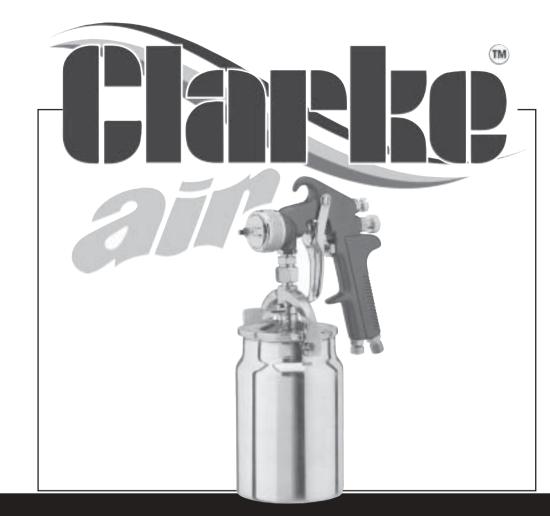


Clarke INTERNATIONAL

Far spare parts and servicing, please contact your nearest dealer, or Clarke lyternational on

020 - 8988 - 7400

e-mail: Parts@clarkeinternational.com e-mail: Service@clarkeinternational.com



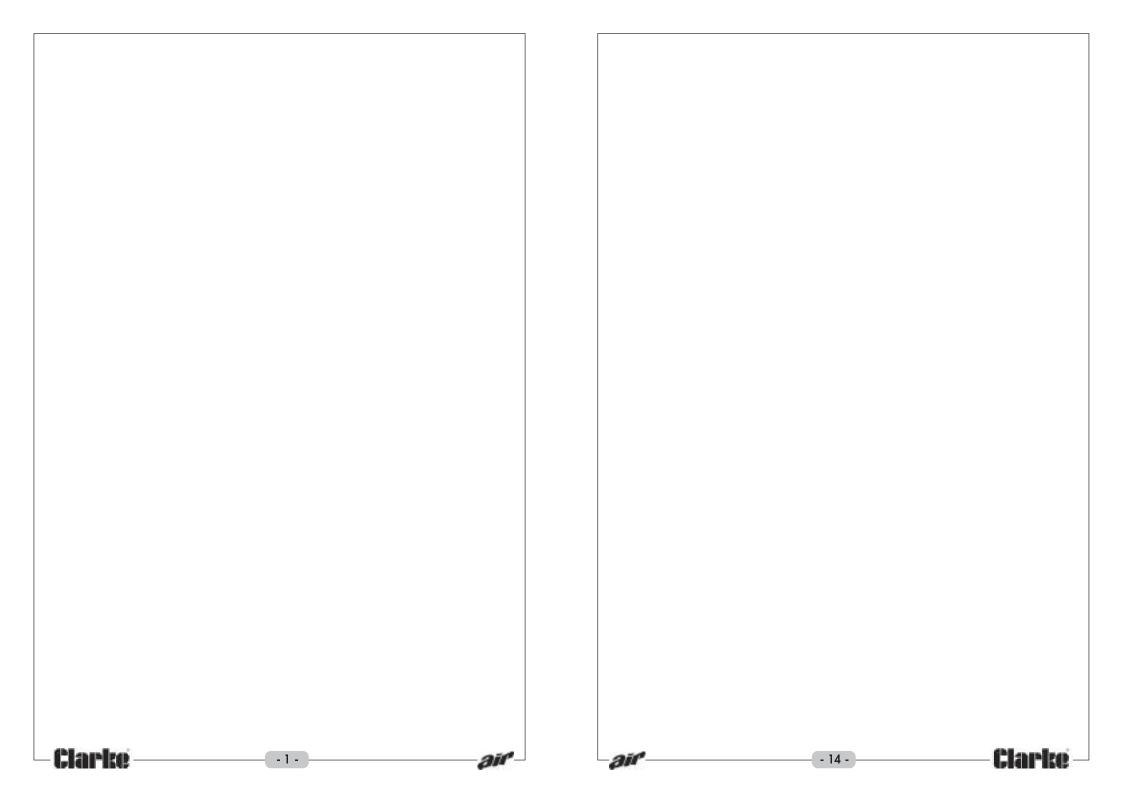
SPRAY GUN

MODEL NO: Super Pro14C & Super Pro18C PART No: 3090050 & 3090055

OPERATION & MAINTENANCE INSTRUCTIONS



0903



NOTES



Please read these instructions carefully before operating the tool

Thank you for purchasing this **CLARKE** Super Pro Spray Gun.

Before using the device, please read this manual thoroughly and carefully. Follow all instructions given. This is for your own safety and that of others around you, and is also to help you achieve long and trouble free service from your new spray gun.

CLARKE GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not affect your statutory rights.

Please be aware that certain parts of this spray gun will wear, requiring replacement and that these parts may not be covered by your guarantee.

The wear on certain parts depends on the abrasiveness of the materials being sprayed. More abrasive materials such as latex paint (emulsions) will cause these parts to wear much faster.

Replacement parts are available from your nearest Clarke International dealer.

PARTS & SERVICE TEL: 020 8988 7400

or e-mail as follows:

PARTS: Parts@clarkeinternational.com

SERVICE: Service@clarkeinternational.com

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air

SPECIFICATIONS

SUPER PRO SPRAY GUNS

Professional spray guns with external paint mix and 1 litre syphon cup for cellulose, enamels, polyurethane, acrylics, metallics and all similar viscosity finishes

SPECIFICATIONS Super Pro-14C Super Pro-18C 3090050 3090055 Part No:.... Vessel Capacity:.... 1 Litre 1 Litre Air Consumption:.... 8.50 CFM 8.50 CFM Air Inlet Connector:.... 1/4" BSP 1/4" BSP Nozzle:.... 1.4mm 1.8mm Fluid Connector..... 3/8" BSP 3/8" BSP

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Please note that the details and specifications contained herein are correct at the time of going to print. However CLARKE International reserve the right to change specifications at any time without prior notice.

- 3 -

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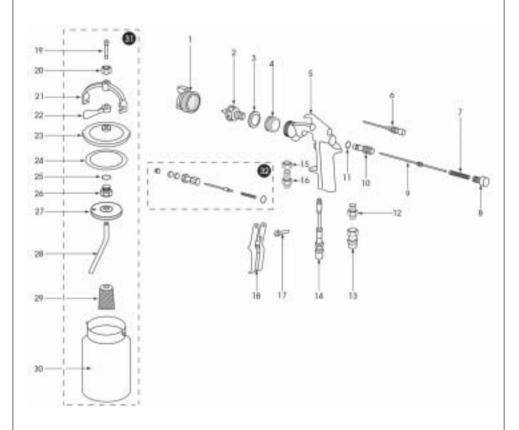
PARTS LIST

		PART NUMBER		
No	DESCRIPTION	Super Pro14C	Super Pro18C	Qty
1	Air cap Set	NS5P1401	NS6P1801	
2	Nozzle	NS5P1402	NS6P1802	1
3	Copper Gasket	NS5P1403	NS6P1803	1
4	Air Orientated Ring	NS5P1404	NS6P1804	1
5	Body	NS5P1405	NS6P185	1
6	Adjusting Valve Set	NS5P1406	NS6P186	1
7	Spring	NS5P1407	NS6P1807	1
8	Adjusting Screw	NS5P1408	NS6P1808	1
9	Fluid Needle	NS5P1409	NS6P189	1
10	Needle Valve Guide	NS5P1410	NS6P1810	1
11	'O' Ring	NS5P1411	NS6P1811	1
12	Air Hose Joint	NS5P1412	NS6P1812	1 1
13	Quick Connector	NS5P1413	NS6P1813	1
14	Air Adj Valve et	NS5P1414	NS6P1814	1
15	Nut	NS5P1415	NS6P1815	1 1
16	Fluid Joint	NS5P1416	NS6P1816	1 1
17	Trigger Pin	NS5P1417	NS6P1817	1 1
18	Trigger	NS5P1418	NS6P1818	1 1
19	Copper Pin	NS5P1419	NS6P1819	1
20	Nut	NS5P1420	NS6P1820	1
21	Yoke Assy	NS5P1421	NS6P1821	1
22	Lever	NS5P1422	NS6P1822	1
23	Cup Top Assy	NS5P1423	NS6P1823	1
24	Cup Gasket	NS5P1424	NS6P1824	1
25	`O' Ring	NS5P1425	NS6P1825	1
26	Nut	NS5P1426	NS6P1826	1
27	Baffle	NS5P1427	NS6P1827	1
28	Tube Assembly	NS5P1428	NS6P1828	1
29	Filter	NS5P1429	NS6P1829	1
30	Paint Cup	NS5P1430	NS6P1830	1
31	Paint Cap Assembly	NS5P1431	NS6P1831	1
32	Air Valve Seat Set	NS5P1432	NS6P1832	1
#	Spanner	NS5P1433	NS6P1833	1
#	Cleaning Brush	NS5P1434	NS6P1834	1
#	Air Hose Joint Set	NS5P1435	NS6P1835	1

Part not shown



PARTS DIAGRAM



IMPORTANT:

The use of parts other than CLARKE replacement parts may result in safety hazards, decreased tool performance and may invalidate your warranty.

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SAFETY PRECAUTIONS

⚠ WARNING **⚠**

Compressed air can be dangerous. Ensure that you are thoroughly familiar with all precautions relating to the use of compressors and compressed air supply.



For your personal safety and that of others around you. Follow these safety instructions carefully.

NOTE: products used in this spray gun may be covered by COSHH Regulations.

- ALWAYS check the manufacturer's data sheets on the products being sprayed for any particular hazards, and follow the manufacturer's instructions. Take particular care if spraying isocyanate paints.
- ALWAYS wear a suitable approved breathing mask when spraying, to protect against
 inhalation of paint spray or fumes. An air feed mask may be required when spraying
 some types of paint. If in doubt, check with the paint manufacturer.
- ALWAYS make sure there is adequate ventilation. Do not spray in confined or enclosed areas.
- **ALWAYS** disconnect the spray gun from the air supply when it is not in use, and before any disassembly.
- ALWAYS keep the spray nozzle in place when spraying.
- ALWAYS thoroughly clean the spray gun after use. See 'Maintenance'
- **NEVER** spray paint towards people or animals. In the case of injury, seek expert medical advice immediately.
- NEVER smoke while spraying or preparing paints, or spray near a naked flame or heat source. Many paints are flammable.
- **NEVER** allow children to use or play with this appliance.
- NEVER spray products containing halogenated hydrocarbons (such as trichloroethane or methylene chloride) with this gun as they can react chemically with aluminium or zinc to produce an explosion hazard.
- NEVER exceed the maximum input air pressure of 70 psi (4.8 bar).



GENERAL ARRANGEMENT



AIR SUPPLY

Super Pro spray guns are available with two nozzle sizes, 1.4mm, and 1.8mm. The larger the nozzle, the more compressed air is needed. Make sure your spray gun is matched to the capacity of your compressor.

Model	Nozzle size	Compressor required
Super Pro-14	1.4 mm	2 hp and above
Super Pro-18	1.8 mm	2 hp and above

For best results, the air supply to the spray gun must be clean and dry, with no oil or water contamination. Follow the air compressor manufacturer's guidelines on installation and operation to ensure that your air supply is as clean as possible. The compressed air supply line to the spray gun must be fitted with an oil and water extractor and a suitable pressure regulator.

Connect the air supply to the spray gun using a suitable 1/4" BSP fitting.





NOTES

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PAINT SPRAYING HINTS Cont

To obtain best results, it is vital that the surface to be sprayed is well prepared. It must be clean, free from dust, dirt and grease. Mask any area that is not to be sprayed.

Paint Thinning

Thinning is particularly important when paint spraying. Most paints are supplied ready for brush application and need to be sufficiently diluted for spraying purposes. Always follow the paint manufacturers instructions. If in doubt, always consult the paint manufacturer.

A Viscous Cup (not supplied), will assist in determining the correct thickness of the paint.

Ensure the paint is free from lumps or other matter, if necessary strain it through a coarse filter.

The ideal viscosity for most paints is given in the chart opposite.

Dip the cup into the paint and fill to the brim. Time how long it takes for the cup to empty.

Thin as required until times are achieved

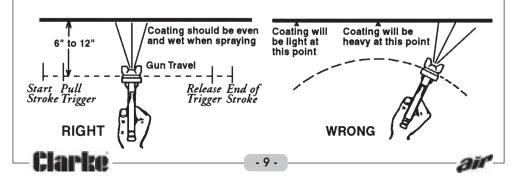


Water based paints 35 - 45 secs	
Oil based paints 15 - 25 secs	
Enamel paints15 - 25 secs	
Primers 20 - 30 secs	
Varnishes 20 - 25 secs	
Aluminium paints 15 - 25 secs	
Wood preservatives Do Not Dilute	
Wood Stains Do Not Dilute	
Smooth Masonry paintdilute by 5 - 10%	

Alternatively if a viscous cup is not available, the following information can be used as a rough guide.

Water based paints (emulsions) 10-20% water. Oil based paints (gloss) up to 10% thinners. Cellulose paints up to 50% cellulose thinners.

IF IN ANY DOUBT. CONTACT THE PAINT MANUFACTURER



USING THE SPRAYGUN

Super Pro spray guns are fed with paint by a siphon (or suction) effect from the paint cup. The air flow through the air cap draws paint up the feed tube, into the nozzle assembly, where it is atomised and sprayed forward.

Mix the paint to the correct viscosity for spraying according to the manufacturers instructions, and strain it into the paint cup through a fine mesh filter. When mixing the paint, make sure that you have enough thinners left to clean the spray gun after use.

Do not fill the paint cup to more than 3/4 full. Make sure that the top edge of the cup and the cup sealing gasket are clean and free from damage before mounting the cup on the gun. The cup locking lever must be tightened firmly to prevent any leaks from around the cup rim, also it is very important to keep the cup vent clear.

Set the spray pattern and fluid flow using the adjustment screws on the spray gun. The spray pattern is variable between round and fan by adjusting the air flow through the air cap. Turn the spray fan control anticlockwise to increase flow and give a fan shaped spray pattern, turning clockwise to close off the air flow will give a circular pattern. The fan can be adjusted vertically or horizontally to suit your requirements by loosening the knurled locking ring and turning the wings to the desired position. Set the fluid flow according to the paint in use and the spray pattern by using the fluid control screw; anticlockwise to increase, clockwise to reduce flow. As the width of the spray is increased, fluid flow will also need to be increased.

The air pressure needed will vary according to the paint in use, with thicker paints needing greater pressure. For most paints, a pressure of between 1.5 and 4.2 bar (approximately 22 - 60 psi) is adequate, to increase the air pressure, turn the air flow control anticlockwise to increase, and clockwise to decrease the air pressure.

NOTE:

To reduce overspray and obtain maximum transfer efficiency, always use the lowest possible air inlet atomising pressure that produces an acceptable spray pattern.

The first requirement for a good resultant finish is the proper handling of the gun. The gun should be perpendicular to the surface being covered and moved parallel with it. The stroke should be started before the trigger is pulled and likewise, released before the stroke is ended. This gives accurate control of the gun and material.

The distance between the gun and the surface to be covered should be 6 to 12 inches depending on the material and atomising pressure. The material deposited should always be even and wet. Lap each stroke over the preceding stroke to obtain a uniform finish.

Damage to the fluid needle or nozzle, or any of the air ports, will result in a faulty spray pattern. Take care when cleaning or assembling these components.

When spraying, the gun should be held square to the surface being painted, at a distance of 6 to 12 inches depending on the paint and atomising pressure. Keep the gun parallel to the surface being sprayed, starting the stroke before pulling the trigger, and releasing the trigger before ending the stroke. Overlap each stroke over the preceding stroke to obtain an even finish. The paint cover should be even and wet when spraying.

If the gun is too far from the surface, or the paint is too thin, the paint will dry before hitting the work, resulting in a rough, sandy finish. Allowing overspray to fall on a finished area will also result in a rough finish. Too much paint feed or holding the gun too close to the work will lead to runs and sagaing.



MAINTENANCE

WARNING

Relieve any pressure in the gun and hose, and disconnect the spray gun from the air supply, before any disassembly.

It is essential that the spray gun is kept clean. Dried paint in the nozzle assembly or airways will stop the gun from working. For the gun to perform at its best it must be cleaned and lubricated after every use.

After use, empty any remaining paint from the paint cup, wipe the cup clean with a dry, lint free rag, and fill with thinners. Spray the thinners through the spray gun until it is clean.

- 1. Immerse only the front end of the gun until solvent just covers the fluid connection. NOTE: do not submerge the entire spray gun in solvent because:
 - a, the lubricant in the seals/packings will dissolve and the packings will dry out.
 - b, the lubricant at wear surfaces will dissolve resulting in harder operation and premature wear.
 - c, residue from dirty solvent may clog the narrow air passages in the gun.
- 2. Use a small bristle brush and solvent to wash off accumulated paint.
- 3. Wipe down the outside of the gun with solvent dampened cloth.
- 4. Lubricate gun daily, using a light machine oil on :
 - a, fluid needle packing
 - b, air valve packing
 - c, side port control packing
 - d, trigger pivot point

Coat the fluid control spring with grease

CAUTION: never use silicon based lubricants as this may cause paint finish defects.

DO NOT poke any of the holes in the air cap or nozzle with metal instruments. These holes are precision drilled, and can be damaged by probing with anything harder than a wooden toothpick.

Make sure that the air inlet vent to the paint cup is kept clean. Blockages in this vent will prevent an even material flow to the gun.

Do not mix components from spray guns, even those of the same type. Do not overtighten components, and be careful not to cross thread any parts on assembly.

Check the air supply hose regularly for any signs of damage, and replace it if necessary. Do not use damaged or leaking hoses.

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PAINT SPRAYING HINTS

WARNING

NEVER attempt to spray unless you are wearing suitable, approved respiratory and eye protection.

REMEMBER that some modern paints require specialist respiratory protection...always consult the paint manufacturers instructions.

1. General Preparation

- a. Ensure that the area in which you will be spraying is clean and dust free.
- b. Connect spray gun to compressor via suitable flexible hose.
- c. With no paint in spray gun, test system for air leaks.
- d. Cover adjacent pieces of equipment to protect from overspray. Mask areas of the article not to be sprayed.
- e. Ensure surface to be painted is clean, dry and free from oil and dust. Check paint manufacturer's instructions for any special surface preparation required.

REMEMBER - TIME SPENT PREPARING SAVES TIME SPENT FINISHING

2. Paint Preparation

- a. Achieve the correct paint viscosity. This should be done according to paint manufacturer's instructions, and will vary according to type of paint, (see paint thinning on page 9).
- b. Having mixed the paint thoroughly in a separate container, pour into the spray gun paint container through a fine filter.
- DO NOT OVERFILL SPRAY GUN PAINT CONTAINER three quarters full is maximum
- c. It is usually best to experiment with a couple of practice spray coats on a piece of material with the same type of surface as the article you wish to spray, eg. metal for a car body panel, wood for a piece of furniture etc.
- d. Some common problems:

PROBLEM	CAUSE	CORRECTION
Paint does not atomise (comes out in blobs).	Paint is too thick. Air pressure is too low.	Add thinners. Increase air pressure.
Paint dries before hitting surface, leaving it dry with a rough texture.	Paint is too thin. Air pressure is too high.	Add more paint. Reduce air pressure.
Finish is pitted like Orange peel.		Reduce air pressure, increase distance between gun and work.

