

DRAPER[®]

STORMFORCE

INSTRUCTIONS FOR
80W 230V
Airless Spray Gun

Stock No.83657

Part No.SG80SF

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.



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GENERAL INFORMATION

These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product.

Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

1. TITLE PAGE

1.1 INTRODUCTION:

USER MANUAL FOR:

80W 230V AIRLESS SPRAY GUN

Stock no. 83657

Part no. SG80SF

1.2 REVISIONS:

Date first published March 2016

As our user manuals are continually updated, users should make sure that they use the very latest version.

Downloads are available from: <http://www.drapertools.com/manuals>

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1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:

WARNING! Information that draws attention to the risk of injury or death.

CAUTION! Information that draws attention to the risk of damage to the product or surroundings.

1.4 COPYRIGHT © NOTICE:

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3. GUARANTEE

3.1 GUARANTEE

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England. Telephone Sales Desk: (023) 8049 4333 or Product Help Line (023) 8049 4344.

A proof of purchase must be provided with the tool.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee period covering parts/labour is 12 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

Note: If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the guarantee period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited.

4. INTRODUCTION

4.1 SCOPE

This spray gun is intended mainly for use outdoors. Ideal for spraying rough sawn surfaces such as fences, sheds and benches. It is intended for domestic and light commercial use only. Any other application is considered misuse.

4.2 SPECIFICATION

Stock no	83657
Part no	SG805F
Motor:	
Rated voltage	230V
Rated frequency	50Hz
Rated input	80W
Output	250mL/min
Cup capacity	0.7Ltr
Nozzle sizes	0.6mm/0.8mm
Max viscosity.....	40DIN-S
Sound pressure level	95.2dB(A) K=3dB(A)
Sound power level	106.2dB(A) K=3dB(A)
Vibration level	10.175m/s ² K=1.5m/s ²
Weight	1.4kg

4.3 HANDLING & STORAGE

The environment will have a negative result on its operation if you are not careful. If the air is damp, components will rust. If the machine is unprotected from dust and debris; components will become clogged: And if not cleaned and maintained correctly or regularly the machine will not perform at its best.

5. HEALTH & SAFETY INFORMATION

5.1 GENERAL SAFETY INSTRUCTIONS FOR POWER TOOL USE

When using any type of power tool there are steps that should be taken to make sure that you, as the user, remain safe.

Common sense and a respect for the tool will help reduce the risk of injury.

Read the instruction manual fully. Do not attempt any operation until you have read and understood this manual.

Most important you must know how to safely start and stop this machine, especially in an emergency.

Keep the work area tidy and clean. Attempting to clear clutter from around the machine during use will reduce your concentration. Mess on the floor creates a trip hazard. Any liquid spilt on the floor could result in you slipping.

Find a suitable location. If the machine is bench mounted; the location should provide good natural light or artificial lighting as a replacement. Avoid damp and dust locations as it will have a negative effect on the machine's performance.

If the machine is portable; do not expose the tool to rain. In all cases do not operate power tools near any flammable materials.

Beware of electric shock. Avoid contact with earthed surfaces; because they can conduct electricity if there is an electrical fault with the power tool. Always protect the power cable and route it away from danger.

Keep bystanders away. Children, onlookers and passers by must be restricted from entering the work area for their own protection. The barrier must extend a suitable distance from the tool user.

Unplug and house all power tools that are not in use. A power tool should never be left unattended while connected to the power supply. They must be housed in a suitable location, away locked up and from children.

Do not overload or misuse the tool. All tools are designed for a purpose and are limited to what they are capable of doing. Do not attempt to use a power tool (or adapt it in any way) for an application it is not designed for. Select a tool appropriate for the size of the job. Overloading a tool will result in tool failure and user injury: This covers the use of accessories.

Dress properly. Loose clothing, long hair and jewellery are all dangerous because they can become entangled in moving machinery: This can also result in parts of body being pulled into the machine.

Clothing should be close fitted, with any long hair tied back and jewellery and neck ties removed. Footwear must be fully enclosed and have a nonslip sole.

5. HEALTH & SAFETY INFORMATION

Wear personal protective equipment (PPE). Dust, noise, vibration and swarf can all be dangerous if not suitably protected against. If the work involving the power tool creates dust or fumes; wear a dust mask. Vibration to the hand, caused by operating some tools for longer periods must be protected against. Wear vibration reducing gloves and allow long breaks between uses. Protect against dust and swarf by wearing approved safety goggles or a face shield. These are some of the more common hazards and preventions; however, always find out what hazards are associated with the machine/work process and wear the most suitable protective equipment available.

Do not breathe contaminated air. If the work creates dust or fumes; connect the machine (if possible) to an extraction system either locally or remotely. Working outdoors can also help if possible.

Move the machine as instructed. If the machine is hand held, do not carry it by the power supply cable. If the product is heavy; employ a second or third person to help move it safely or use a mechanical device. Always refer to the instructions for the correct method.

Do not overreach. Extending your body too far can result in a loss of balance and you falling. This could be from a height or onto a machine and will result in injury.

Maintain your tools correctly. A well maintained tool will do the job safely. Replace any damaged or missing parts immediately with original parts from the manufacturer. As applicable; keep blades sharp; moving parts clean, oiled or greased; handles clean; and emergency devices working.

Wait for the machine to stop. Unless the machine is fitted with a safety brake; some parts may continue to move due to momentum. Wait for all parts to stop; then unplug it from the power supply before making any adjustments, carrying out maintenance operations or just finishing using the tool.

Remove and check setting tools. Some machinery requires the use of additional tools or keys to set, load or adjust the power tool. Before starting the power tool always check to make certain they have been removed and are safely away from the machine.

Prevent unintentional starting. Before plugging any machine in to the power supply, make sure the switch is in the OFF position. If the machine is portable; do not hold the machine near the switch and take care when putting the machine down; that nothing can operate the switch.

Carefully select an extension lead. Some machines are not suitable for use with extension leads. If the tool is designed for use outdoors; use an extension lead also suitable for that environment. When using an extended lead, select one capable of handling the current (amps) drawn by the machine in use. Fully extend the lead regardless of the distance between the power supply and the tool. Excess current (amps) and a coiled extension lead will both cause the cable to heat up and can result in fire.

Concentrate and stay alert. Distractions are likely to cause an accident. Never operate a power tool if you are under the influence of drugs (prescription or otherwise), including alcohol or if you are feeling tired. Being disorientated will result in an accident.

5. HEALTH & SAFETY INFORMATION

Have this tool repaired by a qualified person. This tool is designed to conform to the relevant international and local standards and as such should be maintained and repaired by someone qualified; using only original parts supplied by the manufacturer: This will ensure the tool remains safe to use.

5.2 ADDITIONAL SAFETY INSTRUCTIONS FOR SPRAY GUNS

- Never point or spray the gun at humans or animals.
- Consult the manufacturer of the substance to be sprayed for safety guidelines specific to the material.
- In the event of the material being sprayed coming into contact with skin, eyes or taken internally, consult with a doctor immediately and inform them of the substance involved.
- Never spray flammable liquids, glazes, acidic, caustic, alkaline or substances containing abrasive or texture (ie grit).
- Do not spray near naked flames or heat sources.
- Always use in a well ventilated area.
- Keep out of the reach of children.
- After thoroughly cleaning the complete spray gun store in a safe, dry location.
- Do not operate the gun empty of fluid as this will cause excess wear internally.
- Oil the nozzle assembly with a light mineral oil on a regular basis.

5. HEALTH & SAFETY INFORMATION


5.3 CONNECTION TO THE POWER SUPPLY

Make sure the power supply information on the machine's rating plate are compatible with the power supply you intend to connect it to.

This product comes supplied with a UK standard 3 pin plug fitted. It is designed for connection to a domestic power supply rated at 230V AC.

This appliance is Class II† and is designed for connection to a power supply matching that detailed on the rating label and compatible with the plug fitted.

If an extension lead is required, use an approved and compatible lead rated for this appliance. Follow all the instruction supplied with the extension lead.

†Double insulated  : This product requires no earth connection as supplementary insulation is applied to the basic insulation to protect against electric shock in the event of failure of the basic insulation.

Apart from replacing the fuse in the plug, no other electrical work is recommended on this machine.

6. TECHNICAL DESCRIPTION

6.1 IDENTIFICATION



- ① 700ml container
- ② 0.8mm Nozzle (Black)
- ③ Pressure adjustment

- ④ Handgrip
- ⑤ Plug & cable
- ⑥ Trigger

7. UNPACKING & CHECKING

7.1 PACKAGING

Carefully remove the airless spray gun from the packaging and examine it for any sign of damage that may have happened during shipping. Lay the contents out and check them against the parts shown below. If any part is damaged or missing; please contact the Draper Help Line (the telephone number appears on the Title page) and do not attempt to use the power tool.

The packaging material should be retained at least during the guarantee period: in case the machine needs to be returned for repair.

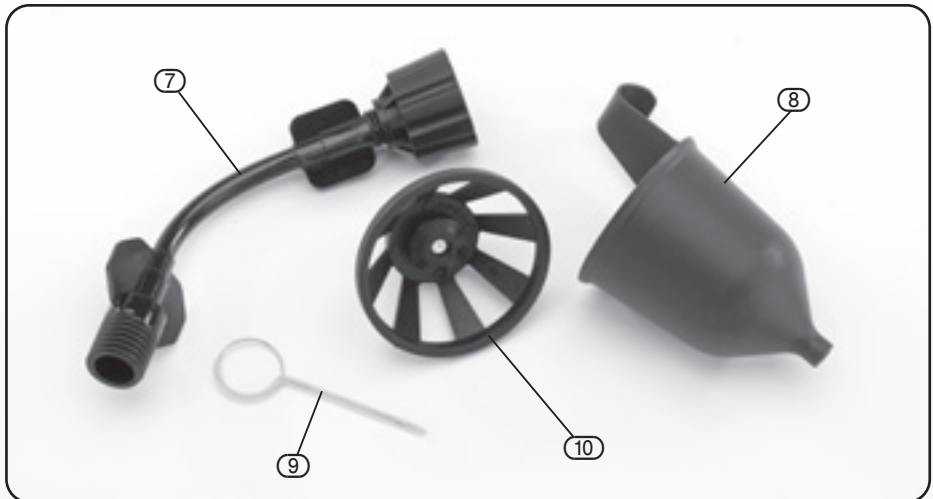
Warning! Some of the packaging materials used may be harmful to children. Do not leave any of these materials in the reach of children.

If any of the packaging is to be thrown away, make sure they are disposed of correctly; according to local regulations.

7.2 WHAT'S IN THE BOX?

As well as the airless spray gun; there are several parts not fitted or attached to it.

- ⑦ 1x Adjustable nozzle (0.8mm)
- ⑧ 1x Viscosity measurement cup
- ⑨ 1x Nozzle cleaning pin
- ⑩ 0.6mm Nozzle (Red)



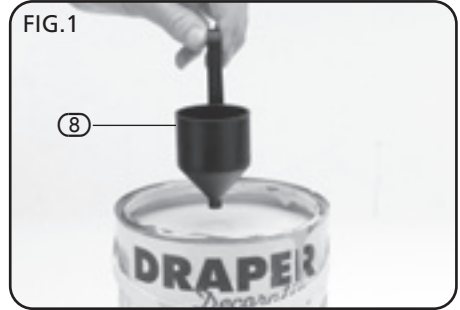
8. OPERATION AND USE

NOTE: Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

8.1 VISCOSITY MEASUREMENT - FIG. 1

Thoroughly mix the material appropriate for the intended job. Immerse the measurement cup ⑧ fully. Raise the cup and measure the time taken for it to empty in seconds.

Refer to the table below as a guide on if the material requires diluting. If dilution is necessary, measure the viscosity once again to ensure the correct level has been achieved.



Material	Time
Water based paint	20 - 25 secs
Primers	24 - 28 secs
Varnishes	20 - 25 secs
Enamel	18 - 22 secs
Wood sealers	28 - 35 secs
Wood preservatives	No thinning required
Wood stains	No thinning required

WARNING: This table is a general guide only.

The material being sprayed must be suitable for spraying and must conform to the viscosity requirements detailed here.

Always check with the paint/varnish manufacturer if in doubt.

NB: Do not use textured wall paints, these will block the nozzle.

NB: Not suitable for cellulose paints.

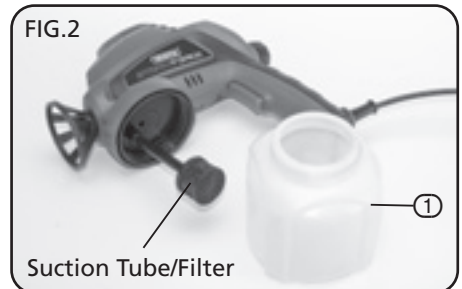
NOTE: If the intended material does not appear on this table, the guide for viscosity should be between 15-30 seconds.

Only mix in a small quantity of thinner at a time and re-measure to ensure excess dilution does not occur.

Remove any foreign bodies, lumps or contaminants from the material prior to filling the gun.

8.2 FILLING THE CONTAINER - FIG. 2

To remove the container ① rotate it anti-clockwise one and a quarter turns. Place the container on to a piece of scrap material in case of spillage. Pour in the material (diluted as necessary) carefully into the container. Do not exceed the 700ml mark. Re-attach the container on to the gun with care.

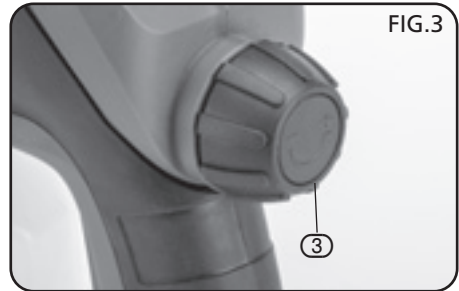


8. OPERATION AND USE

8.3 SPRAY REGULATION - FIG. 3

Rotate the pressure adjustment knob (3) clockwise to reduce the output or anti-clockwise to increase the output.

Set up the required volume by testing the spray on a small area of the workpiece or a scrap piece of timber.



8.4 NOZZLE CHANGING - FIG. 4

THE COMPLETE ASSEMBLY:

Unscrew the nozzle (2) and replace with other nozzle supplied (10) not shown.



8.5 THE ADJUSTABLE NOZZLE - FIG. 5

With the nozzle removed, screw on the adjustable nozzle head (7).

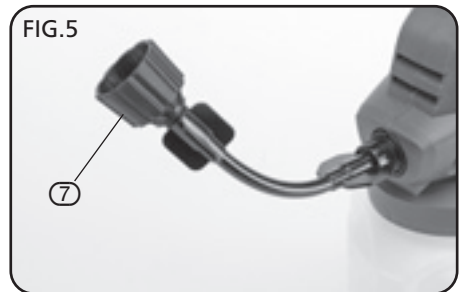
Note: Ensure that the small valve does not fall out while the nozzle is removed.

The adjustable nozzle should be used to spray floors and ceilings. It can also be used in areas with limited access.

Always hold the machine level when using this nozzle.

Nozzle can be adjusted by using hand pressure only to bend into desired position.

NB: If ambient temperature is cold, place nozzle in warm water for a few minutes, this will enable easier bending.



8. OPERATION AND USE

8.6 SPRAYING TECHNIQUES

Due to the nature of this type of spray gun, overspray is reduced, however some masking may still be required.

Clean the area thoroughly. Remove any dust.

Keep the gun upright at all times as tilting will introduce air gaps into the material being sprayed. This will result in the paint splattering.

The spray gun should be kept parallel and an equal distance from the work area (25-35cm approximately). The correct distance will vary depending on the adjustment on the volume regulation. The lesser amount being sprayed, the closer the gun will require holding.

As the gun cannot be tilted, the adjustable nozzle will enable spraying areas up or down, eg. ceiling or floors.

Avoid holding the gun too close or moving it too slowly as this will result in runs occurring.

Spray the first coat and allow a short period in-between applying a second coat. Do not leave material in the gun for prolonged periods.

9. TROUBLESHOOTING

9.1 TROUBLESHOOTING

WARNING: For your own safety, turn the switch off and remove the plug from the power supply socket.

PROBLEM	POSSIBLE CAUSE	REQUIRED ACTION
<ul style="list-style-type: none">• Motor hums but does not spray or irregular spraying	<ul style="list-style-type: none">• Valve worn• Piston stuck • No valve in the pump• Blocked suction tube/filter • Blocked nozzle• Loosened nozzle	<ul style="list-style-type: none">• Replace valve• Clean the piston with thinners/water• Fit valve• Clean the suction tube/filter using thinners• Clean the nozzle with pin• Tighten the nozzle
<ul style="list-style-type: none">• Atomization is not good	<ul style="list-style-type: none">• Nozzle is not tightened• Paint is too thick	<ul style="list-style-type: none">• Tighten the nozzle• Check the viscosity of the paint
<ul style="list-style-type: none">• Over painting	<ul style="list-style-type: none">• Spray gun is too close to the object being sprayed• Too much paint • Viscosity is too low	<ul style="list-style-type: none">• Keep the spray gun 25-35cm from the surface of object• Adjust the pressure adjustment knob to reduce spray• Check the viscosity
<ul style="list-style-type: none">• No spray, no sound	<ul style="list-style-type: none">• No electricity	<ul style="list-style-type: none">• Check power supply
<ul style="list-style-type: none">• Operating sound is not right	<ul style="list-style-type: none">• Poor output adjustment• Not enough paint in the container• Incorrect paint dilution or paint not passing suction tube/filter completely	<ul style="list-style-type: none">• Re-adjust• Refill the container with paint • Check suction tube/filter and viscosity level

IMPORTANT: Please note all repairs/service should be carried out by a qualified person.

10. MAINTENANCE

10.1 MAINTENANCE AND PARTS REPLACEMENT

NOTE: Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

DO NOT clean the parts holding the machine under flowing water or by submerging the machine in water or thinners.

It is essential that the spray gun is cleaned thoroughly after every use. If not, this will decrease the life of this spray gun.

- Remove the container and pour the remaining liquid back into a paint can or suitable container.
- Clean the container thoroughly by using water or thinners.
- Pour a small amount of water or thinners into the container and spray until only water or thinners comes out of the nozzle. Ensure that spray is captured in a rag or tissue, in order to avoid spraying potentially flammable thinners.
- Remove the container from the machine and thoroughly clean the suction tube/filter using water or thinners.
- Unscrew nozzle and pull the nozzle and piston assembly out of the unit and ensure these parts are cleaned well.
- Apply a few drops of light lubricating oil to the piston, piston spring and cylinder.
- Use the cleaning pin provided to clean the hole in the nozzle.
- Re-assemble the machine and wipe over the spray gun with a damp cloth to remove any splatters of paint.

11. EXPLANATION OF SYMBOLS

11.1 EXPLANATION OF SYMBOLS



Warning!
Wear dust mask.



Warning!
Read the instruction manual



Warning!
Wear suitable eye/face
protection.



Warning!
Wear ear defenders.



WEEE
Do not dispose of Waste Electrical
& Electronic Equipment in with
domestic rubbish



Class II construction
(Double insulated).

12. DISPOSAL

12.1 DISPOSAL

- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.

In all circumstances:

- Do not dispose of power tools with domestic waste.
- Do not incinerate.
- Do not abandon in the environment.
- Do not dispose of WEEE* as unsorted municipal waste.



* Waste Electrical & Electronic Equipment.

- **DRAPER TOOLS LIMITED,**
Hursley Road, Chandler's Ford,
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- **Help Line:** (023) 8049 4344
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- **General Enquiries:** (023) 8026 6355
- **Service/Warranty Repair Agent**
For aftersales servicing or warranty repairs, please
contact the Draper Tools Help Line for details of an
agent in your local area.

YOUR DRAPER STOCKIST

RDCH0816

