



**DRAPER**<sup>®</sup>

40W

# SOLDERING STATION

61478



UK  
CA CE

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

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## 1.1 INTRODUCTION:

**USER MANUAL FOR: 40W 230V Soldering Station**

**Stock Nos: 61478**

**Part Nos: SI400**

## 1.2 REVISIONS:

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**Date first published February 2021.**

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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. WARRANTY

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### 3.1 WARRANTY

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 Helpline (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 warranty period covering parts/labour is 12 months from the date of purchase except where tools are hired out when the warranty period is ninety days from the date of purchase. The warranty is extended to 24 months for parts only.

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

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

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

**Draper Tools Limited.**



# 4. INTRODUCTION

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## 4.1 SCOPE

This is a soldering iron which uses heat, generated by an electric filament to melt solder used on electrical joints.

## 4.2 SPECIFICATION

Stock no .....	61478
Part no.....	SI400
Rated voltage .....	230V~
Rated frequency .....	50Hz
Variable rated input .....	5-40W
Maximum rated input .....	40W
Temperature range .....	150 – 420°C (300 – 790°F)
Weight .....	0.75kg

## 4.3 HANDLING & STORAGE

Take care when handling the soldering iron to prevent damage.  
Store in a dry location, out of the reach of children.

# 5. HEALTH & SAFETY INFORMATION

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## 5.1 HEALTH & SAFETY INFORMATION

Before using the soldering iron check to ensure nothing is missing, broken or dangerous. Do not leave the soldering iron unattended or in the reach of children. If the soldering iron is not to be used for a prolonged period, unplug it from the mains supply. Do not put the hot soldering gun down on any delicate or flammable surfaces. Never use the soldering iron outside in the rain. Never dismantle the soldering iron. Return the soldering iron to your local stockist. Do not let foreign objects enter the soldering iron as this may cause internal damage.

## 5.2 GENERAL SAFETY INSTRUCTIONS FOR POWER TOOL USE

**WARNING:** Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term “power tool” in all of the warnings refers to your mains soldering station.

## SAVE THESE INSTRUCTIONS

### 1. Work Area

- a. **Keep work area clean and well lit.** Cluttered and dark areas invite accidents.
- b. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- c. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

### 2. Electrical Safety

- a. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electrical shock.
- b. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- c. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- e. **For indoor use only. DO NOT operate in a damp location.**

### 3. Personal Safety

- a. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b. **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, gloves etc. as necessary.
- c. **Avoid accidental starting. Ensure the switch is in the off position before plugging in.**
- d. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- e. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.

## 5. HEALTH & SAFETY INFORMATION

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### 4. Power Tool Use and Care

- a. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- b. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c. **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- f. **Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from intended could result in a hazardous situation.

### 5. Service

- a. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

## 5.3 CONNECTION TO THE POWER SUPPLY

### **CAUTION: Risk of electric shock. Do not open.**

This appliance is supplied with a moulded 3 pin mains plug for your safety. The value of the fuse fitted is marked on the pin face of the plug. Should the fuse need replacing, ensure the substitute is of the correct rating, approved to BS1362 and ASTA or BS Kite marked.

ASTA   
BSI 

The fuse cover is removable with a small plain slot screwdriver. Ensure the fuse cover is replaced before attempting to connect the plug to an electrical outlet. If the cover is missing, a replacement must be obtained or the plug replaced with a suitable type.

If a replacement plug is to be fitted this must be carried out by a qualified electrician.

The damaged or incomplete plug, when cut from the cable shall be disabled to prevent connection to a live electrical outlet.

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

It is a Class 1 machine; meaning, it must have an earth connection in the power supply.

This is to prevent electrocution in the event of a failure and allow the soldering tip to be earth preventing static discharge.

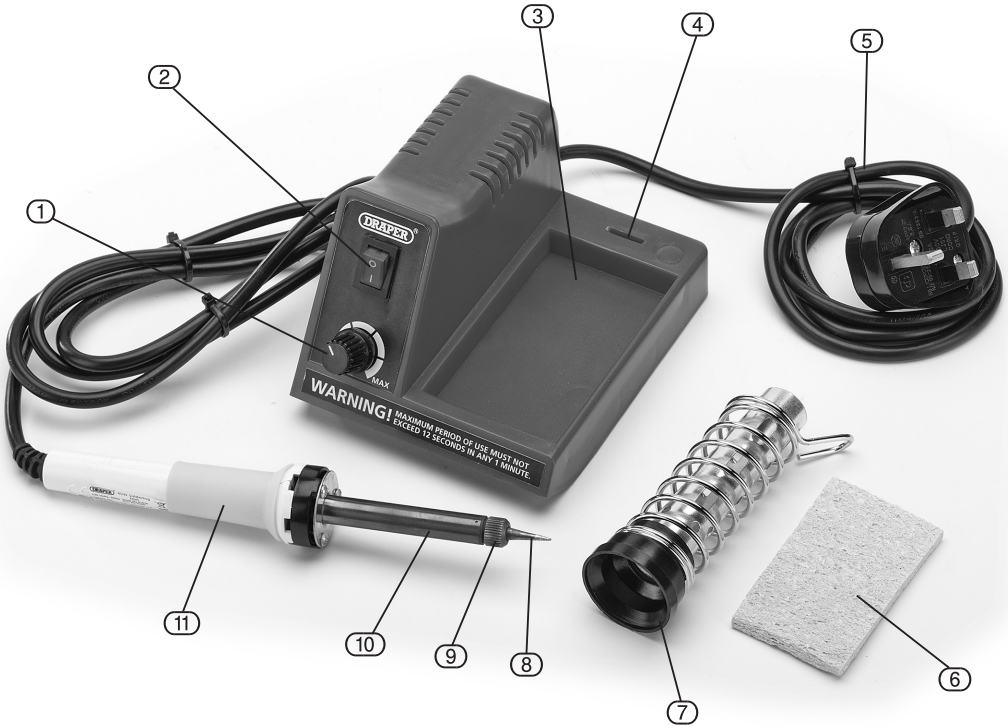
Apart from replacing the fuse in the plug, no other electrical work is recommended on this soldering station.

## 6. UNPACKING & CHECKING

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### 6.1 WHAT'S IN THE BOX?

As well as the Soldering Station; there are other parts not fitted or attached to it.



- ① Heat output dial
- ② ON/OFF rocker switch
- ③ Sponge tray
- ④ Soldering iron stand insert hole
- ⑤ Approved mains cable and plug
- ⑥ Sponge
- ⑦ Soldering iron stand
- ⑧ Tip
- ⑨ Collar
- ⑩ Solder gun
- ⑪ Hand grip

## 7. ASSEMBLY

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### 7.1 ASSEMBLY – FIG.1

Before use, insert tab of soldering iron stand into slot in the base unit.

Wet the sponge in clean water and insert into space in the base unit.

Finally, insert soldering iron into the soldering iron stand.



## 8. INSTRUCTIONS FOR USE

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### 8.1 INSTRUCTIONS FOR USE

Ensure soldering iron is assembled as per section 7.

Ensure soldering iron is inserted into the soldering iron stand and insert the mains plug into a normal 230V mains supply.

Switch on the unit using the rocker switch on the front of the base.

The power to the soldering iron can be adjusted using the rotary dial on the front of the base unit.

The minimum power is 5Watts and the maximum is 40Watts, adjust the dial to achieve the required soldering tip temperature.

Objects to be soldered must be clean.

Conductors should be cleaned with steel wool or fine sandpaper.

Before soldering for the first time the tips should be tinned using a cored solder or solder and a separate flux until the tip is fully coated with solder.

Be sure tips are tinned before commencing to solder. Occasional re-tinning will ensure good solder connections.

Apply tip to the work, then apply solder to the work at the point of tip contact.

Remove the tip from the work. Molten solder must cool undisturbed. Blowing on solder speeds setting.

Do not use more solder than necessary. Use just enough to make a good connection.

Use resin core solder for radio and electrical connections.

Use acid core solder only where flux residue may be washed and cleaned away. Acid core solder is mainly used for mechanical connections and rarely used for electrical connections.

After using with acid core, clean soldering gun tip thoroughly.

## 9. MAINTENANCE

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### 9.1 REPLACING THE SOLDERING TIP - FIG. 2

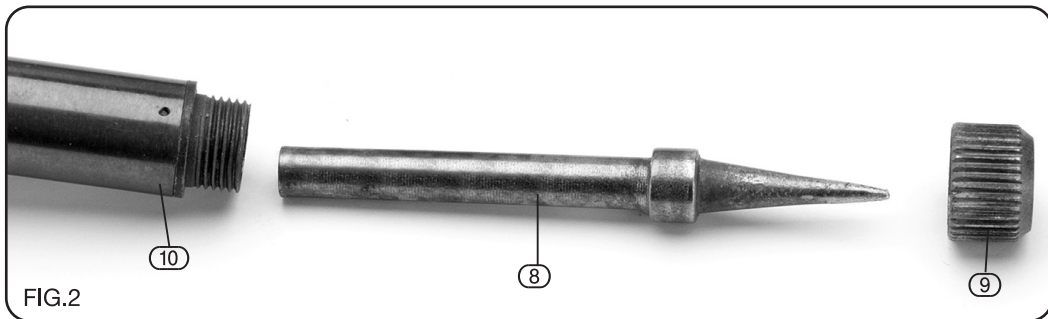
**NOTE:**

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

Allow to cool fully before touching.

Loosen the knurled collar (9) and remove from the solder gun (10), then pull out the tip (8).

Replacement is the reversal of removing the tip. Tighten the knurled collar finger tight to secure.



# 10. EXPANATION OF SYMBOLS

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## 10.1 EXPLANATION OF SYMBOLS



WEEE

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



European conformity.



UK Conformity Assessed.

# 11. DISPOSAL

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## 11.1 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.

## CONTACTS

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Service/Warranty Repair Agent:

For aftersales servicing or warranty repairs, please contact the  
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## YOUR DRAPER STOCKIST

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