



# 50W SOLDERING STATION

MODEL NO: **SD003**

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 & 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. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instructions



Hot surfaces



Indoor use only



Warning!



Warning!  
Wear eye protection

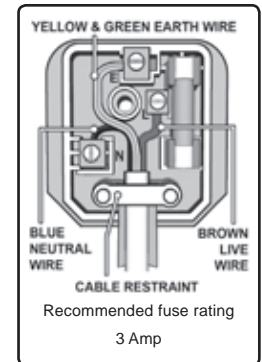
## 1. SAFETY

### 1.1. ELECTRICAL SAFETY

- WARNING!** It is the user's responsibility to check the following:  
Check all electrical equipment and appliances to ensure that they are safe before using. Inspect power supply leads, plugs and all electrical connections for wear and damage. Sealey recommend that an RCD (Residual Current Device) is used with all electrical products. You may obtain an RCD by contacting your local Sealey stockist.  
If the product is used in the course of business duties, it must be maintained in a safe condition and routinely PAT (Portable Appliance Test) tested.

**Electrical safety information, it is important that the following information is read and understood.**

- 1.1.1. Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
- 1.1.2. Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that they are secure.
- 1.1.3. **IMPORTANT:** Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating in these instructions.
  - × **DO NOT** pull or carry the appliance by the power cable.
  - × **DO NOT** pull the plug from the socket by the cable.
  - × **DO NOT** use worn or damaged cables, plugs or connectors. Ensure that any faulty item is repaired or is replaced immediately by a qualified electrician.
- 1.1.4. This product is fitted with a BS1363/A 13 Amp 3 pin plug.  
If the cable or plug is damaged during use, switch the electricity supply and remove from use. Ensure that repairs are carried out by a qualified electrician.  
Replace a damaged plug with a BS1363/A 13 Amp 3 pin plug. If in doubt contact a qualified electrician.
  - a) Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.
  - b) Connect the BROWN live wire to the live terminal 'L'.
  - c) Connect the BLUE neutral wire to the neutral terminal 'N'.Ensure that the cable outer sheath extends inside the cable restraint and that the restraint is tight. Sealey recommend that repairs are carried out by a qualified electrician.



### 1.2 GENERAL SAFETY

- WARNING!** Ensure Health & Safety, local authority, and general workshop practice regulations are adhered to when using this equipment.
  - ✓ Familiarise yourself with the application, limitations and potential hazards of the soldering station.
  - ✓ Replace or repair damaged parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
  - ✓ Locate soldering station in a suitable working area, keep area clean and tidy and free from unrelated materials.
  - ✓ Keep the work area clean, uncluttered and ensure there is adequate lighting.
  - ✓ Keep the soldering iron clean for best and safest performance.
  - ✓ Ensure there are no flammable or combustible materials near the work area.
  - ✓ Wear approved safety eye protection (standard spectacles are not adequate).
  - ✓ Wear appropriate protective clothing.
  - ✓ Ensure the workpiece is adequately held before operating the soldering iron.
  - ✓ Always replace the soldering iron in its holder when not in use.
  - ✓ Remove excess solder from the soldering iron by wiping the tip on a damp, natural sponge; not by abrupt force.
  - × **DO NOT** attempt to remove excess solder from the soldering iron by shaking it. Hot solder may become airborne and land on skin causing burns and blisters.
  - × **DO NOT** allow children or pets into the area where the soldering is taking place.
  - × **DO NOT** attempt to cool the gun with water.
- NOTE:** This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

## 2. INTRODUCTION

50W Soldering Station with rapid heat up. MCU controlled temperature using a PID system. Maintains temperatures between 200 - 480°C. Supplied with soldering sponge and soldering iron stand.

## 3. SPECIFICATION

**Model No:** ..... **SD003**  
Frequency: ..... 50Hz  
Heating Element Voltage: ..... 24V AC  
Power: ..... 50W  
Supply: ..... 230V  
Temperature Accuracy: .....  $\pm 10^{\circ}\text{C}$   
Temperature Range: ..... 200-480°C(392-896°F)  
Temperature Stability: .....  $\pm 2^{\circ}\text{C}$  (in still air, no load)  
Tip-to-Ground Resistance: .....  $< 2\Omega$   
Tip-to-Ground Voltage: .....  $< 2\text{mV}$   
Replacement tip ..... **SD003ST**  
Replacement heating element ..... **SD003HE**  
Replacement iron and cable ..... **SD003IC**  
Optional Extra  
Tip thermometer ..... **SD003TT**



## 4. OPERATION

**NOTE:** Dampen the sponge wiper before using the soldering station.

### 4.1. CONNECTION

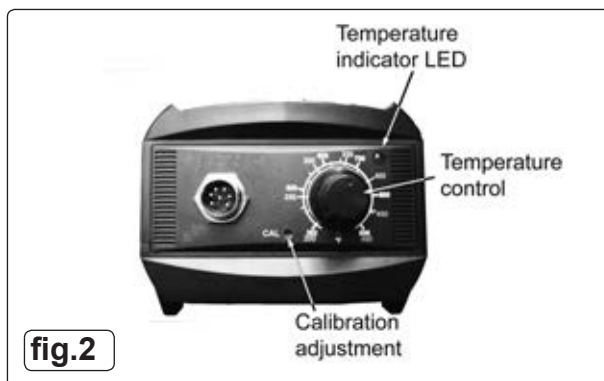
- 4.1.1. Push the DIN plug attached to the iron lead into the socket on the front panel of the control unit.
- 4.1.2. Plug the power cable into the mains power supply after ensuring that it is to the correct standard.

### 4.2. SWITCHING ON

- 4.2.1. Switch the on/off switch to the '●' setting. Switch is located on the side of the unit.
- 4.2.2. Select the required tip temperature using the dial knob on the front of the unit. The knob has both a dimple and small pointer to enable accurate setting and has scales showing for both celcius and fahrenheit units.
- 4.2.3. The red light on the front of the unit will flash while heating to the required temperature. Once the set temperature is reached the red light will be lit constantly.

### 4.3. CALIBRATION (fig.1)

- 4.3.1. The soldering iron should be recalibrated after changing either the tip, heating element or whole soldering iron.
- 4.3.2. Remove and carefully store the CAL plug. Replace it after calibration is completed.
- 4.3.3. Ensure that the tip of the soldering iron is well tinned with solder to disperse the heat.
- 4.3.4. Set tip temperature to 400°C. When tip is indicated to be at temperature (4.2.3), measure the actual tip temperature using a suitable, reliable and accurate device.
- 4.3.5. If the measured tip temperature is lower than the set temperature use a suitable screwdriver to rotate the CAL control clockwise for a quarter of a turn at a time to increase the tip temperature. Repeat this until the set and measured temperatures are the same.
- 4.3.6. If the measured tip temperature is higher than the set temperature use a suitable screwdriver to rotate the CAL control counter clockwise for a quarter of a turn at a time to decrease the tip temperature. Repeat this until the set and measured temperatures are the same.



## 5. MAINTENANCE

- **WARNING!** Remove from mains supply before performing any maintenance or cleaning.
- \* **DO NOT** open the casing; there are no user-servicable parts inside. In case of malfunction, return to your Sealey stockist or Service Agent.

### 5.1. CLEANING

- \* **DO NOT** shock or tap the iron tip to remove excess solder; use the dampened sponge wiper.
- 5.1.1. Clean the casing with a moist, soapy cloth, having ensured that the unit is isolated from the electrical supply.

Parts support is available for this product. Please log on to [www.sealey.co.uk](http://www.sealey.co.uk), email [sales@sealey.co.uk](mailto:sales@sealey.co.uk) or telephone 01284 757500



#### ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



#### WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

**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 this product.

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

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