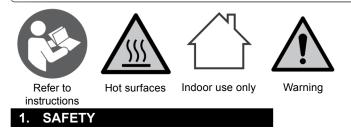


SOLDERING STATION 80w

MODEL NO: ST80

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.



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 dealer.

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 gualified 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.

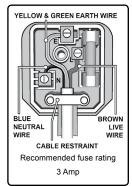
a) Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.

- 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 gualified 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.
- \checkmark 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.
- **x 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.



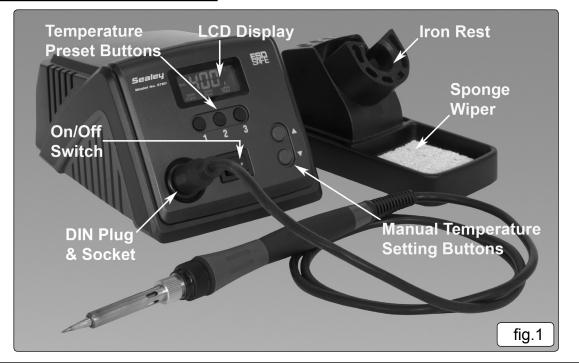
2. INTRODUCTION

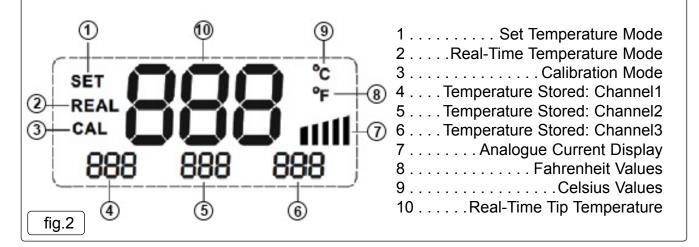
80W Soldering Station with large LCD display and backlight. Three adjustable heat settings with $\pm 10^{\circ}$ C accuracy as well as manual temperature selection. Features auto-standby and shutdown, settable between 1-120 minutes to ensure reduced energy consumption. Takes just 10 seconds to heat from 0-350°C. ESD Safe. Supplied with soldering sponge and aluminium soldering iron stand.

3. SPECIFICATION

Model No:	ST80
Supply/Power:	
Frequency:	
Heating Element Voltage:	
Temperature Stability:	
Temperature Accuracy:	(, , ,
Maximum Temperature range:	
Tip-to-Ground resistance:	
Tip-to-Ground Voltage:	

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 (fig.1).
- 4.1.2. Push the power cord into the socket at the rear of the control unit, after ensuring that the power supply is to the correct standard.

4.2. Switching On

- 4.2.1. Switch the on/off switch to the '.' setting.
- 4.2.2. The display will show '80' briefly, denoting the model number.
- 4.2.3. The last temperature set will be displayed for 3 seconds.
- 4.2.4. After a further 3 seconds, the display will show the real-time temperature of the tip.

NOTE: The number of bars shown by the analogue current display (fig.2.7) represent the current being applied to the tip.

4.3. Temperature Setting

- 4.3.1. The default temperatures stored by buttons: 1, 2 and 3 are 200,300 and 400°C respectively.
- 4.3.2. With the normal settings applied, the temperature can be adjusted by means of the ▲ and ▼ buttons (fig.1).
- 4.3.3. The display will go to 'set' and the required temperature will either increase or decrease. Holding the button down will allow rapid adjustment.
- 4.3.4. When the button is released, the display will revert to 'real' to illustrate the current temperature.
- 4.3.5. To store a required temperature, set as in 4.3.1., then hold one of the preset buttons down for 3 seconds. The new temperature will then become the stored value assigned to that button.
- 4.3.6. The default temperature setting is in 5°C graduations. For finer adjustment see section 4.7.

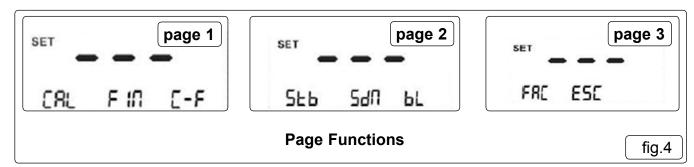
4.4. Locking the Keypad

- 4.4.1. The keypad may be locked by pressing all three preset buttons simultaneously for 3 seconds.
- 4.4.2. The display will show 'loc' (fig.3) and none of the buttons will function.
- 4.4.3. To unlock the keypad, press all three keys again for 3 seconds; the display and button functions will revert to normal.



4.5. System Setting

- 4.5.1. To access the system setting pages, press ▲ and ▼ buttons simultaneously for 3 seconds. This will display page 1 of the systems menu (fig.4).
- 4.5.2. To scroll between system setting pages, use the ▲ and ▼ buttons. Each click of the ▼ button advances by one page, and vice versa.



4.6. Calibration

- 4.6.1. To access the system setting pages, press ▲ and ▼ buttons simultaneously for 3 seconds.
- 4.6.2. To start calibration: press '1' on page1. 'CAL' will flash.
- 4.6.3. Ensure that the tip of the soldering iron is well tinned with solder to disperse the heat.
- 4.6.4. Measure the tip temperature (T1) and compare with the reading (T2).
- 4.6.5. If T1 exceeds T2, press ▲ until the difference is displayed. If T2 exceeds T1, press ▼ until the difference is displayed.
 E.G: If measured temperature(T1) is 350°, and display (T2) shows 370°, the display will need reducing by 20°. Scroll will the ▼ button until -20° is reached.
- 4.6.6. Press button '1' to save the setting.

4.7. Fine Temperature Adjustment

- 4.7.1. To access the system setting pages, press \blacktriangle and \blacktriangledown buttons simultaneously for 3 seconds.
- 4.7.2. To alter the temperature adjustment between 5° and 1° increments: press '2' on page1. 'Fin' will flash.
- 4.7.3. Scroll between 'Off' (5°) and 'On' (1°) by means of the ▲ and ▼ buttons.
- 4.7.4. Press button '2' to save the setting.

4.8. Temperature Scale Selection

- 4.8.1. To access the system setting pages, press ▲ and ▼ buttons simultaneously for 3 seconds.
- 4.8.2. To switch between Celsius and Fahrenheit scales: press '3' on page 1.'C-F' will flash.
- 4.8.3. Toggle either the ▲ and ▼ button to change from C to F and back.
- 4.8.4. Press button '3' to save the change.

4.9. Stand-by Mode

- 4.9.1. To access the system setting pages, press ▲ and ▼ buttons simultaneously for 3 seconds.
- 4.9.2. In stand-by mode the iron will, if not touched during the selected time, cool down to 150° C and remain at that temperature until the iron is next removed from the rest or any control pressed. At this point it will re-establish the set temperature.
- 4.9.3. To set the stand-by time: select page 2 by pressing the ▼ button and then press '1'. 'Stb' will flash.
- 4.9.4. The default setting is 'OFF'. To select a stand-by time: press the ▲ key to increase the period (keeping the button pressed allows the time to increase rapidly).
- 4.9.5. Use the ▲ and ▼ button to alter the set time or the ▼ button to scroll down to 'OFF'.
- 4.9.6. Press button '1' to store the setting.

4.10. Automatic Shutdown Mode.

- **NOTE:** Automatic shutdown can only be selected if the stand-by time (section 4.9.) has been set. The shutdown time must be greater than the stand-by time.
- 4.10.1. To access the system setting pages, press \blacktriangle and \blacktriangledown buttons simultaneously for 3 seconds.
- 4.10.2. To set the automatic shutdown time: select page 2 by pressing the ▼ button and then press '2'. 'Sd∏' will flash.
- 4.10.3. The default setting is 'OFF'. To select a shutdown time: press the ▲ key to increase the period. Keeping the button pressed allows the time to increase rapidly.
- 4.10.4. Press '2' to save the setting.
- 4.10.5. To reactivate from shutdown mode: switch the soldering station off and restart.
- **NOTE:** When in shutdown mode, a small amount of current is still being consumed. If not being used, switch off and isolate from the power supply to ensure absolute safety.

4.11. Touch tone

- 4.11.1. To access the system setting pages, press ▲ and ▼ buttons simultaneously for 3 seconds.
- 4.11.2. To disable or enable the audible touch tone: select page 2 by pressing the ▼ button and then press '3'. 'bL' will flash.
- 4.11.3. Toggle either the \blacktriangle or \triangledown button to switch the tone on or off.
- 4.11.4. Press '3' to save the setting.

4.12. Factory Settings

- 4.12.1. To access the system setting pages, press ▲ and ▼ buttons simultaneously for 3 seconds.
- 4.12.2. To cancel any manual settings and return to the factory settings: select page 3 by pressing the ▼ button twice and pressing the '1' button.
- 4.12.3. 'FAC' will flash.
- 4.12.4. Toggle either the ▲ or ▼ button to select factory settings or not.
- 4.12.5. Press '1' to apply.
- NOTE: Once the settings have been reset, adjustments can again be made. To retain factory settings, lock the keypad as in section 4.4.

4.13. Escape

- 4.13.1. To access the system setting pages, press ▲ and ▼ buttons simultaneously for 3 seconds.
- 4.13.2. To exit the system setting pages: select page 3 by pressing the ▼ button twice. Pressing the '2' (ESC) button will return the display to the main functions.

NOTE: the display will return to the main functions automatically after 10 seconds if no key is pressed.

5. MAINTENANCE

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 the iron tip to remove excess solder; use the dampened sponge wiper.
- Clean the casing with a moist, soapy cloth, having ensured that the unit is isolated from the electrical supply.

5.2. Fault Codes

Fault Code/Fault Description	Cause/Remedy
E-0: Abnormal Heating Alarm	Transformer damaged. Power chip damaged. Short circuit in soldering iron lead
E-1: Abnormal Heating Alarm	Open circuit in heating element. Heating element wiring fault.
E-2: Open Circuit Alarm	Heating element damaged. Heating element wiring damaged
Poor Connections	Check DIN plug and socket. Check fuse (replace if necessary with fuse of same specification)
Temperature Display Incorrect	Check soldering iron for damage. Recalibrate (see section 4.6.)
Illegible code	Switch off and restart.

Parts support is available for this product. To obtain parts, please log on to www.sealey.co.uk, email 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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