

SEALEY

8PC SOLDERING GUN/IRON KIT

MODEL NO: **SD300K**

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
Instruction
Manual



Wear eye
Protection

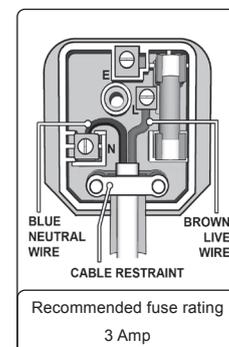


Warning
Hot
Surface

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 stockists.
 - If the soldering iron 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.
 - 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. Remove the plug from the socket by maintaining a firm grip on the plug.
 - * **DO NOT** use worn or damaged cables, plugs or connectors. Ensure that any faulty item is repaired or replaced immediately by a qualified electrician.
- 1.1.3. 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.
 - Replace a damaged plug with a BS1363/A 13 Amp 3 pin plug. If in doubt contact a qualified electrician.
 - Class II products are wired with live (brown) and neutral (blue) only are marked with the Class II symbol;
 - A) Connect the BROWN live wire to the live terminal 'L'.
 - B) Connect the BLUE neutral wire to the neutral terminal 'N'.
 - C) After wiring, check that there are no bare wires and ensure that all wires have been correctly connected.
 - Ensure that the cable outer sheath extends inside the cable restraint and that the restraint is tight.
 - * **DO NOT** connect either wire to the earth terminal.
 - 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 iron.
- ✓ Replace or repair damaged parts. *Use genuine parts only. Non-authorized parts may be dangerous and will invalidate the warranty.*
- ✓ Locate in a suitable work area, keep the work area clean and tidy, and free from unrelated materials. 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.
- ✓ Remove ill fitting clothing, ties, watches, rings and other loose jewellery and contain long hair.
- ✓ Ensure the work piece is adequately held before operating the soldering iron.
- ✓ Always use the stand provided for the soldering iron, so that the tip cannot make contact with the work surface.
- ✓ Ensure that when the soldering iron is put down during use, that the tip is not near to, or in contact with any material that may burn or melt, including the products own supply lead.
- ✓ Remove excess solder from the soldering iron by wiping the tip on a damp sponge.
- * **DO NOT** attempt to remove excess solder from the soldering iron by shaking it, as 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 soldering iron with water.
- WARNING!** Disconnect the soldering iron from the mains supply and allow it to cool before changing tips.
- * **DO NOT** operate the soldering iron when you are tired, under the influence of alcohol, drugs or intoxicating medication.
- * **DO NOT** leave a hot soldering iron unattended.- If leaving the work area, even for a short period of time, switch it off and allow to cool.

- × **DO NOT** use the soldering iron for any purpose other than that for which they have been designed.
- × **DO NOT** touch the work piece immediately after working on it, as it will be very hot. Allow it to cool.
- × **DO NOT** allow untrained persons or children to operate the soldering iron.
- × **DO NOT** operate the soldering iron if damaged.
- × **DO NOT** hold the work piece by hand.
- ✓ When finished working, store the soldering iron in a safe, dry, childproof location.

2. INTRODUCTION

Comprehensive soldering kit comprising a 100W instant heat soldering gun, a 30W soldering iron with stand, a third hand support, solder sucker, scraper/probe, spare soldering tips and a roll of flux cored solder wire. Soldering irons fitted with BS approved 3 pin 230V/13Amp plugs.

3. CONTENTS

- Instant heat soldering gun (100W)
- Soldering iron with stand (30W)
- Soldering stand
- Solder sucker
- Scraper/probe
- Spare soldering tip
- Roll of flux cored solder wire

4. OPERATION

4.1. USING THE 30WATT SOLDERING IRON.

4.1.1. The 30Watt soldering iron is primarily intended for the soldering of electrical joints such as the attachment of components to printed circuit boards and the connection of leads to plugs and sockets used in electronics. (Where delicate electronic components are concerned that may be damaged by excessive heat, the wire being soldered should be held with a pair of thin nosed pliers on the opposite side of the board so that some of the heat generated by the soldering process is transferred to the pliers.)

4.1.2. **Preparing the iron stand.** Before using the soldering iron, set up the metal stand provided by bending the centre section upwards so that it is nearly vertical to the rest of the stand as shown in fig.2. Rest the soldering iron on the stand. Plug the iron into the mains and switch on leaving the iron on the stand to heat up.

4.1.3. **Preparation of iron.** When the iron is up to temperature, "tin" the tip by melting a thin layer of solder all over the flattened part of it. If any difficulty is experienced in getting the solder to take to the tip use a proprietary tip cleaner/tinning product.

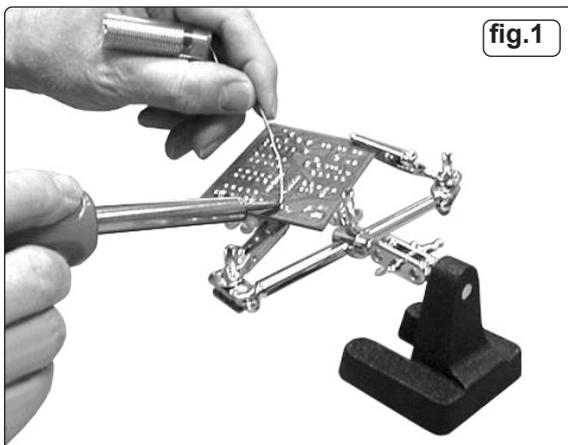


fig.1

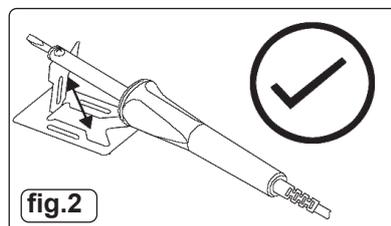


fig.2

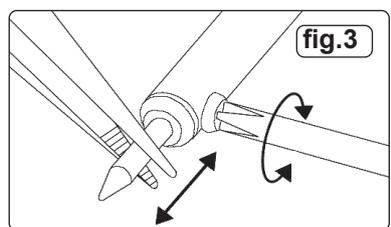


fig.3

4.1.4. **Preparation of parts.** The items to be soldered must be perfectly clean and free from grease. Ideally, the two items to be joined (such as the end of a wire and a switch terminal) should be individually tinned before being brought together to ensure a good joint.

4.1.5. **Holding the work.** Ensure that the items to be soldered are readily accessible and firmly held. The stand provided can be used to hold two items together for soldering leaving both hands free to manipulate the iron and the solder. (See fig.1)

4.1.6. **Soldering.** Bring the soldering iron and the solder to the joint simultaneously. (See fig.1) Leave the iron on the joint just long enough to melt the solder so that it flows onto the two parts to be joined. Remove the iron and place it on the stand. Leave the joint to cool.

4.1.7. **Changing tips.** After a prolonged period of service the tip may become pitted and need replacing. Wait till the iron is completely cool. Loosen the tip retaining nut and pull out the old tip with a pair of pliers. Insert the new tip and twist it into the orientation you require. Lock the tip in place by tightening the the retaining screw. See fig.3.

4.1.8. **Maintenance.** **DO NOT** allow solder to accumulate where the tip enters the iron as this may make the tip difficult to remove. **DO NOT** get solder deposits on the tip retaining screw as it may prevent a screwdriver fitting into the cross head. Periodically loosen the tip retaining screw and rotate the tip in the iron to prevent it seizing into the body. Use a proprietary tip cleaner/tinner to keep the tip clean and correctly tinned.

4.1.9. Spare soldering tips : - Model No. SD30/ST (straight tip), Model No. SD30/CT (curved tip)

4.2. USING THE 30WATT SOLDERING IRON

- 4.2.1. The 100 Watt soldering gun is primarily intended for electrical and electronic use. Its main advantage is its ability to heat up within 20 seconds of pressing the trigger. The tip temperature will reach 300°C so care must be taken with delicate electronic components that may be damaged if excessively heated.
- 4.2.2. **Duty cycle.** The gun has a duty cycle of 12 seconds continuous soldering which should be followed by a 48 second rest. If the trigger is held for less than 12 seconds the necessary rest period needed will be correspondingly less.
- WARNING! DO NOT** try to lock the trigger by any means as this will overheat the tip and the transformer causing permanent damage which will invalidate your guarantee.
- 4.2.3. **Preparing the gun.** Prepare the gun by 'tinning' the tip with a thin layer of solder. If any difficulty is experienced getting the solder to take to the tip use a proprietary tip tinner/cleaner.
- 4.2.4. **Holding/preparing the work.** Ensure that the items to be joined are clean and securely held together. The stand provided can be used for this purpose (See fig.1) Where possible a good joint will more easily be obtained if the items to be joined are tinned separately first.
- 4.2.5. **Soldering.** Press and hold the trigger for approximately 20 seconds to get the tip to full temperature. Bring the tip of the gun and the solder to the joint simultaneously. Leave the iron on the joint just long enough to melt the solder so that it flows onto the two parts to be joined. Remove the gun and release the trigger. Leave the joint to cool. When the gun is not in use but still hot ensure that when it is put down the tip is not touching or close to any material that will melt or is inflammable.
- 4.2.6. **Changing tips.** Disconnect the gun from the mains and wait until the gun is completely cold. Loosen the two screws holding the tip. Remove the tip and insert the new one. Tighten the screws. (If the old tip is difficult to remove, grip it with a pair of pliers and pull it out. Do not use pliers to insert the new tip as the plating may be damaged.)
- 4.2.7. **Maintenance. DO NOT** allow solder to accumulate where the tip enters the gun as this may make the tip difficult to remove. Do not get solder deposits on the tip retaining screws as this may prevent a screwdriver fitting into the cross head. Periodically, use a proprietary tip cleaner/tinner to keep the gun clean and correctly tinned.
- 4.2.8. Spare tips for gun: - Model No. SD02 (Card of two.)
- 4.3. **USING THE SOLDER SUCKER.**
- 4.3.1. The solder sucker can be used where a joint has to be unsoldered or where excess solder has been deposited and needs to be reduced.
- 4.3.2. 'Prime' the sucker by pushing the plunger down until it latches. Bring the soldering iron or gun to the joint and melt the solder. As soon as the solder is liquid place the tip of the sucker into the solder or as close as possible and press the button on the body of the sucker. The plunger will rise by spring action giving a sucking action at the tip. Remove the sucker immediately to avoid being in contact with the hot tip of the soldering iron/gun.
- 4.3.3. Empty the excess solder from the body of the sucker by unscrewing the tip and tapping/shaking to dislodge the solder particles.



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.

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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