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› Bernzomatic ST500 Cordless Soldering Iron User Manual

Bernzomatic ST500

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Model: ST500

INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your Bernzomatic ST500 Cordless Soldering Iron. The ST500 is a versatile 3-in-1 tool designed for precision work, offering soldering, hot air blowing, and micro torch functionalities. Please read all instructions carefully before operation.



Image: Bernzomatic ST500 Cordless Soldering Iron in its retail packaging, highlighting its features and model number.

SAFETY INFORMATION

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Always use in a well-ventilated area.

- Always wear appropriate personal protective equipment, including safety glasses.
- Ensure adequate ventilation when operating the tool.
- Keep out of reach of children. The tool features a CPSC approved child-resistant ignition.
- Do not touch hot tips or nozzles. Allow the tool to cool completely before handling or storing.
- Use only Bernzomatic butane fuel.
- Do not store in direct sunlight or where temperatures exceed 120°F (49°C).

SETUP

1. Fueling the Soldering Iron

1. Ensure the tool is turned off and completely cool.
2. Hold the tool upside down.
3. Insert the nozzle of a Bernzomatic butane fuel canister into the filling valve at the base of the tool.
4. Press down firmly for approximately 10-15 seconds until the fuel tank is full. Do not overfill.
5. Allow a few minutes for the butane to stabilize before ignition.

2. Attaching Tips and Nozzles

The Bernzomatic ST500 comes with three interchangeable settings: a soldering tip, a hot air blower, and a micro torch with a pinpoint flame.



Image: Exploded view of the Bernzomatic ST500, showing the main body, soldering tip, and protective cap.

- **Soldering Tip:** Screw the desired soldering tip onto the heating element. Ensure it is securely fastened but do not overtighten.
- **Hot Air Blower:** Remove any soldering tip. The hot air blower attachment fits over the heating element.
- **Micro Torch:** Remove any tip or attachment. The tool operates as a micro torch when no tip is installed, producing a pinpoint flame.

Always ensure the tool is cool before changing tips or attachments.

OPERATING INSTRUCTIONS

1. Ignition

1. Ensure the fuel tank is adequately filled.
2. Push the ignition button forward until it clicks and the flame ignites.
3. For continuous operation, slide the flame lock switch forward while the ignition button is pressed. Release the ignition button, and the flame will remain lit.
4. To extinguish the flame, slide the flame lock switch back to the off position.

2. Flame Adjustment

The ST500 features a flame adjustment control to vary the heat output for different applications. Rotate the adjustment dial located near the base of the heating element to increase or decrease the flame size and temperature.

3. Applications

The Bernzomatic ST500 is suitable for a variety of fine detail projects:

- **Electrical Soldering:** Use the soldering tip for precise electrical connections.

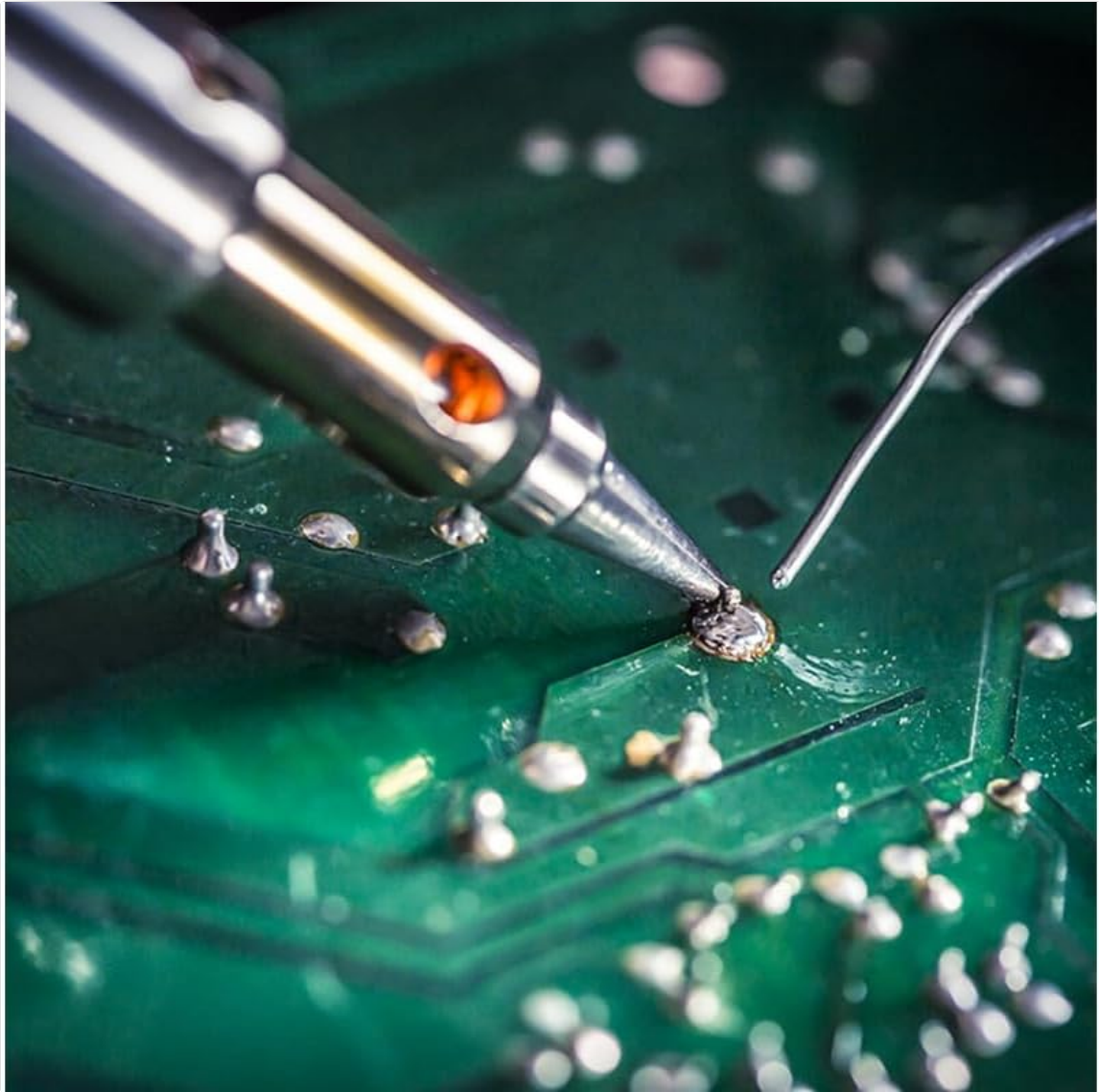


Image: The Bernzomatic ST500 soldering iron tip applying solder to a component on a green circuit board.

- **Jewelry Repairs:** The fine soldering tip is ideal for delicate jewelry work.



Image: The Bernzomatic ST500 soldering iron tip being used to repair a piece of intricate metal jewelry.

- **Craft Projects:** Versatile for various craft applications requiring heat.
- **Heat Shrinking Wire:** Utilize the hot air blower attachment for heat shrinking tubing.



Image: The Bernzomatic ST500 operating as a hot air blower, applying heat to shrink tubing around electrical wires.

MAINTENANCE

- **Tip Cleaning:** After each use, wipe the soldering tip with a damp sponge or brass wool to remove excess solder and flux residue. Ensure the tip is cool before cleaning.
- **Storage:** Store the tool in a cool, dry place away from direct sunlight and heat sources. Ensure the protective cap is in place when not in use.
- **Butane Refill:** Refill with Bernzomatic butane fuel as needed. Do not attempt to use other fuel types.
- **Inspection:** Periodically inspect the tool for any signs of damage or wear. Do not operate if damaged.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not ignite.	Low or no butane fuel.	Refill with Bernzomatic butane fuel.
Tool does not ignite.	Ignition mechanism malfunction.	Ensure the ignition button is fully pressed. If problem persists, contact customer support.

Problem	Possible Cause	Solution
Weak or inconsistent flame.	Low butane fuel.	Refill with Bernzomatic butane fuel.
Weak or inconsistent flame.	Flame adjustment set too low.	Adjust the flame control dial to increase flame size.
Soldering tip not heating sufficiently.	Incorrect tip attachment or dirty tip.	Ensure tip is securely attached and clean. Adjust flame for higher temperature if needed.

SPECIFICATIONS

- Model:** ST500
- Brand:** Bernzomatic
- Power Source:** Butane Fuel Cell
- Wattage:** 15 watts
- Upper Temperature Rating:** 400°C (752°F)
- Item Weight:** 0.35 Pounds
- Head Style:** Pencil
- Included Components:** Soldering iron, 3 soldering iron tips
- Special Features:** Portable, Adjustable Temperature, 3-in-1 functionality (Soldering, Hot Air, Micro Torch)
- Specific Uses:** Jewelry Soldering, Residential Use, Electrical Soldering, Craft Projects, Heat Shrinking Wire
- Manufacturer:** Worthington Cylinders

WARRANTY AND SUPPORT

- For warranty information and customer support, please refer to the documentation included with your product or visit the official Bernzomatic website. You can also visit the [Bernzomatic Store on Amazon](#) for additional resources.
- Manufacturer:** Worthington Cylinders
- Model Number:** ST500