

[Manuals.plus](#) /

› [BACOENG](#) /

› BACOENG 862D+ 2-in-1 Soldering and Hot Air Rework Station User Manual

BACOENG 862D+

BACOENG 862D+ 2-in-1 Soldering and Hot Air Rework Station User Manual

Model: 862D+

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation, setup, and maintenance of your BACOENG 862D+ 2-in-1 Soldering and Hot Air Rework Station. This unit combines a soldering iron and a hot air gun, designed for various electronic repair and rework tasks, including SMD components.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the equipment:

- Ensure the unit is connected to a grounded power outlet (110V).
- Do not operate the unit in damp or wet conditions.
- Keep flammable materials away from the working area.
- Wear appropriate personal protective equipment, including safety glasses and heat-resistant gloves.
- The soldering iron tip and hot air nozzle reach very high temperatures. Avoid direct contact.
- Allow the hot air gun to cool down completely before storing. The unit features an automatic cool-down function when the hot air gun is placed in its holder.
- Do not leave the unit unattended while powered on.
- Ensure adequate ventilation in your workspace to dissipate fumes.
- Disconnect power before performing any maintenance or changing accessories.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- BACOENG 862D+ Main Unit
- Hot Air Gun
- Soldering Iron

- Soldering Iron Stand
- Hot Air Gun Holder
- IC Extractor
- Rosin Flux
- Solder Wire
- Copper Wire
- Spare Heating Core (for soldering iron)
- Pointed Anti-static Tweezers
- Elbow Anti-static Tweezers
- Hot Air Nozzles (Φ3mm, Φ5mm, Φ7mm, Φ10mm)
- Soldering Tips (900M-T-I, B, K, 3C, 4D)

ACCESSORIES INCLUDED



Image: All accessories included with the BACOENG 862D+ station, such as nozzles, tips, solder, flux, and tools.

4. PRODUCT OVERVIEW AND COMPONENTS

Familiarize yourself with the main components of your BACOENG 862D+ station:



Image: Labeled diagram of the BACOENG 862D+ unit, showing the hot air gun, soldering iron, control panel, and various ports.

- **All-Metallic Pane:** Main control panel housing displays and controls.
- **Temperature Read-out (Hot Air):** Digital display for hot air temperature.
- **ON/OFF Switch (Hot Air):** Power switch for the hot air function.
- **Temperature Adjustment Knob (Hot Air):** Rotary knob to set hot air temperature.
- **Air Flow Adjustment Knob (Hot Air):** Rotary knob to control hot air flow rate.
- **Hot Air Gun Handle:** Ergonomic handle for the hot air gun, includes a sensor switch.
- **Temperature Read-out (Soldering):** Digital display for soldering iron temperature.
- **ON/OFF Switch (Soldering):** Power switch for the soldering iron function.

- **Temperature Adjustment Knob (Soldering):** Rotary knob to set soldering iron temperature.
- **Operation Indicator:** LED light indicating unit status.
- **Soldering Iron Receptacle Connector:** Port for connecting the soldering iron.
- **Soldering Iron Handle:** Ergonomic handle for the soldering iron.
- **Interchangeable Soldering Iron Tips:** Various tips for different soldering tasks.
- **Heat-Resistant & Flexible Cords:** Durable power cords for both tools.

5. SETUP

1. **Unpacking:** Carefully remove all components from the packaging. Retain packaging for future storage or transport.
2. **Placement:** Place the main unit on a stable, heat-resistant, and well-ventilated surface. Ensure sufficient clearance around the unit.
3. **Connect Hot Air Gun:** Plug the hot air gun handle into its designated port on the main unit. Place the hot air gun into its holder.
4. **Connect Soldering Iron:** Plug the soldering iron into its designated receptacle connector on the main unit. Place the soldering iron into its stand.
5. **Power Connection:** Connect the main power cord to the unit and then to a grounded 110V AC power outlet.

6. OPERATING INSTRUCTIONS

6.1. Hot Air Gun Operation



Specifications For Hot Air Reworks			
Airflow Type	Brushless Fan	Temperature Stability	$\pm 1^{\circ}\text{C}$
Air Flow	$\leq 24\text{L/min}$	Display Type	Digital Display
Temperature Range	212-896°F 100°C-480°C	Handel Length	$\geq 35\text{inches}$

- **The handle is equipped with a sensor switch, as long as you grip the handle, the system quickly works.**
- **When you put the handle back into the frame, standby mode: The heating core will automatically cool down to a safe range.**

Image: Diagram illustrating the hot air gun's AUTO/MANUAL modes and specifications.

1. **Power On:** Flip the ON/OFF switch for the Hot Air function to 'ON'.
2. **Set Temperature:** Use the Temperature Adjustment Knob (Hot Air) to set the desired temperature (range: 100-480°C / 212-896°F). The digital display will show the set temperature.
3. **Set Air Flow:** Adjust the Air Flow Adjustment Knob to control the air volume. A spiral airflow is created for large nozzles, while a strong rotating wind is generated for small nozzles.
4. **Sensor Switch:** The hot air gun handle is equipped with a sensor switch. When you pick up the handle, the system will automatically activate and heat to the set temperature.
5. **Automatic Cool-down:** When the hot air gun is placed back into its holder, the system enters standby mode. The heating element will turn off, and the fan will continue to blow air until the nozzle cools down to a safe temperature (below 100°C) before shutting off completely. This extends the heater's lifespan.
6. **Nozzle Selection:** Choose an appropriate nozzle ($\Phi 3$, $\Phi 5$, $\Phi 7$, $\Phi 10\text{mm}$) for your application.

6.2. Soldering Iron Operation

1. **Power On:** Flip the ON/OFF switch for the Soldering function to 'ON'.

2. **Set Temperature:** Use the Temperature Adjustment Knob (Soldering) to set the desired temperature. The digital display will show the set temperature. The iron heats up quickly, typically reaching operating temperature in under a minute.
3. **Tip Selection:** Select the appropriate soldering tip (900M-T-I, B, K, 3C, 4D) for your task.
4. **Tinning the Tip:** Before first use and periodically during use, tin the soldering iron tip by applying a small amount of solder to its heated surface. This helps prevent oxidation and improves heat transfer.
5. **Soldering:** Apply the heated, tinned tip to the joint to be soldered, then feed solder into the joint. Remove the solder, then the iron, allowing the joint to cool naturally.
6. **Return to Stand:** Always return the soldering iron to its stand when not in use to prevent accidental burns and keep the tip clean.

7. MAINTENANCE

7.1. Soldering Iron Tip and Heating Core Replacement



Replacement of the soldering iron's tip and soldering iron heating core's element

- 1) Unscrews the nut NO.1 and then removes the steel tube NO.2, followed by removing the tip which is going to be replaced.
- 2) For the replacement of the heating core's element can be performed by unscrewing the plastic cap NO.4, pulling out gently the heating core's element NO.6 along with the plastic cap NO.4, pulling out gently the heating core's element NO.6 along with the circuit board NO.7, please carefully remember the connection of spring NO.5.
- 3) The iron core from the circuit board welding, the replacement of the heating core, can be fitted well. Note that the order of the iron core wire connection.

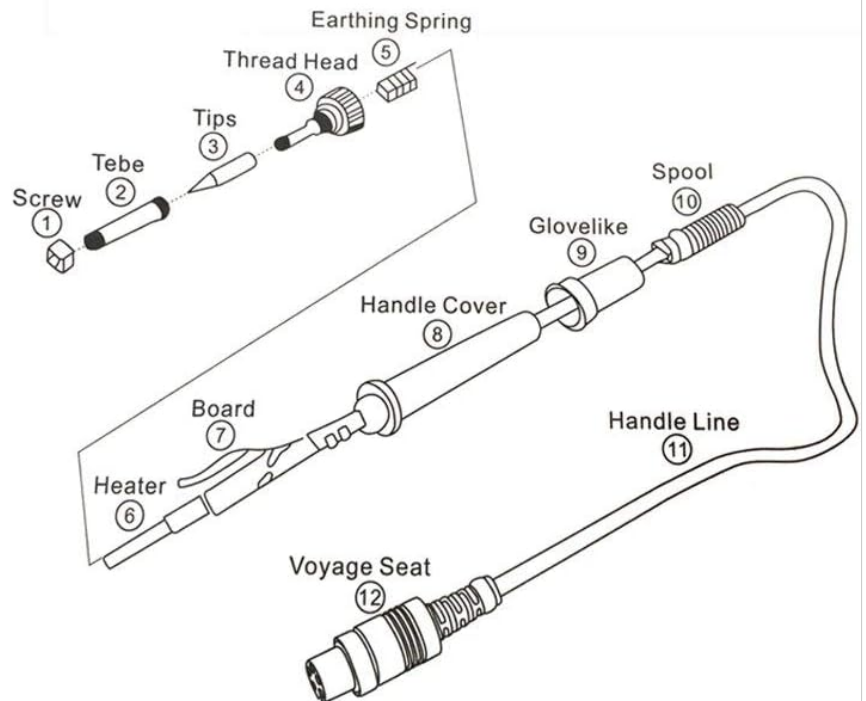


Image: Exploded view diagram showing the components of the soldering iron for tip and heating core replacement.

To replace the soldering iron tip or heating core:

1. Ensure the soldering iron is cool and disconnected from the main unit.
2. Unscrew the nut (1) and remove the steel tube (2).
3. Carefully pull out the old tip (3).
4. To replace the heating core (6), unscrew the plastic cap (4) and gently pull out the heating core element (6) along with the plastic cap (4).
5. Carefully remember the connection of the spring (5).
6. The iron core from the circuit board (7) wiring must be connected correctly. Note the order of the iron core wire connection.
7. Insert the new heating core and/or tip, then reassemble in reverse order.

7.2. General Cleaning

- Regularly clean the soldering iron tip with a damp sponge or brass wool to remove excess solder and oxidation.
- Keep the hot air gun nozzle free of debris.
- Wipe the main unit and tools with a soft, dry cloth. Do not use abrasive cleaners or solvents.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; power switch off; faulty power cord.	Check power connection and outlet. Ensure both ON/OFF switches are engaged. Inspect power cord for damage.
Hot air gun not heating or blowing.	Hot air gun not properly connected; temperature set too low; sensor switch not activated (gun not picked up).	Ensure hot air gun is securely plugged in. Increase temperature setting. Pick up the hot air gun from its holder to activate.
Hot air gun displays "E6" error.	Overheat error.	Place the hot air gun back into its holder and allow it to cool down. If the error persists after cooling, disconnect power and contact support.
Soldering iron not heating.	Soldering iron not properly connected; temperature set too low; faulty heating core.	Ensure soldering iron is securely plugged in. Increase temperature setting. Replace the heating core if necessary (refer to Section 7.1).
Soldering iron tips melting or degrading quickly.	Excessively high temperature; prolonged use at high temperatures; poor quality tips; lack of tinning.	Use appropriate temperatures for your solder. Ensure tips are properly tinned. Consider using higher quality replacement tips.

9. SPECIFICATIONS

Feature	Specification
Model	862D+ (P0247FUSA)
Voltage	110V
Power Consumption	700W
Hot Air Temperature Range	100-480°C (212-896°F)
Soldering Iron Temperature Range	Adjustable (Digital Display)
Temperature Stability	±1°C
Noise Level	≤50dB
Display Type	LED
Material	Aluminum, Steel

Feature	Specification
Item Weight	6.93 pounds
Package Dimensions	12.75 x 9 x 9 inches
UPC	739770994881

10. WARRANTY AND SUPPORT

BACOENG provides a one-year warranty on the heat gun component of this station. For any quality problems or technical assistance, please contact BACOENG customer support.

Customer Support:

- Refer to your purchase documentation for specific contact details.
- Visit the official BACOENG website for support resources.

Please have your model number (862D+ or P0247FUSA) and purchase date ready when contacting support.

© 2024 BACOENG. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

<https://manuals.plus/asin/B07BRWY427>

More documents and user manuals: <https://manuals.plus/>