BAKON BK858E

BAKON BK858E Hot Air Soldering Station User Manual

Model: BK858E

1. Product Overview

The BAKON BK858E is a versatile 2-in-1 soldering and hot air rework station designed for precision electronic work. This compact unit integrates both functions, offering independent control and digital displays for temperature and airflow.
Key features include:

- **2-IN-1 Functionality:** Combines a soldering station and a hot air rework station in one unit.
- **Precision Temperature Control:** Built-in PID program ensures accurate temperature regulation for both soldering iron (180-480°C) and hot air gun (100-500°C).
- **Comprehensive Kit:** Includes essential accessories such as multiple soldering tips and hot air nozzles.
- **Smart Functions:** Features soldering station sleep mode, hot air gun standby mode, auto shut-off, and calibration to enhance tool longevity and efficiency.



Figure 1: BAKON BK858E Hot Air Soldering Station with all components and accessories.

2. Setup Instructions

Follow these steps to set up your BAKON BK858E station:

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all items listed in the packing list are present.
2. **Placement:** Place the main control unit on a stable, heat-resistant surface with adequate ventilation. Ensure there is enough space around the unit for safe operation.
3. **Connect Hot Air Gun:** Connect the hot air gun cable to the designated port on the main unit. Securely place the hot air gun in its stand.
4. **Connect Soldering Iron:** Connect the soldering iron cable to its designated port on the main unit. Place the soldering iron in its holder, ensuring the sponge is moistened if applicable.
5. **Install Accessories:** Attach the desired soldering tip to the soldering iron and the appropriate hot air nozzle to the hot air gun.
6. **Power Connection:** Connect the power cord to the main unit and then plug it into a standard 110V U.S.

specification power outlet. **WARNING: Do not connect to a 220V power outlet.**

3. Operating Instructions

This section details the operation of both the soldering iron and hot air gun functions.

3.1 Powering On and Basic Operation

1. **Power On:** Flip the main power switch on the control unit to the "ON" position. The LED displays will illuminate.
2. **Individual Control:** Each tool (soldering iron and hot air gun) has its own ON/OFF switch and temperature/airflow controls.



Figure 2: Control panel with LED display, temperature adjustment knob, and individual ON/OFF switch.

3.2 Soldering Iron Operation

1. **Activate Soldering Iron:** Turn on the soldering iron's individual ON/OFF switch.
2. **Set Temperature:** Use the "TEMP" knob for the "SOLDER" section to adjust the desired temperature. The temperature range is 180-480°C. The display shows the current temperature.
3. **Temperature Correction:** The unit supports digital temperature correction for precise calibration. Refer to the

calibration section for details.

4. **Sleep Function:** The soldering station features a sleep mode. If the iron handle is left without operation for 20 minutes, it automatically enters sleep mode, maintaining a temperature of 180°C/356°F to prolong tip life. Picking up the iron will awaken it.



Figure 3: Soldering iron auto sleep function for extended tip life.

3.3 Hot Air Rework Station Operation

1. **Activate Hot Air Gun:** Turn on the hot air gun's individual ON/OFF switch.
2. **Set Temperature:** Use the "TEMP" knob for the "REWORK" section to adjust the desired temperature. The temperature range is 100-500°C.
3. **Adjust Airflow:** Use the "AIR" knob to adjust the air volume.
4. **Auto Start/Stop:** When the hot air gun is placed on its handle rack, it enters dormancy. The screen displays "---" and the temperature drops to 100°C/212°F. Picking up the handle will awaken the gun and resume operation.
5. **Auto Shut-off:** The unit also features an auto shut-off function for safety and energy saving.



Figure 4: Hot air gun auto start/stop function for convenience and safety.



Figure 5: Overview of the 2-in-1 soldering and hot air rework capabilities.

4. Maintenance

Proper maintenance ensures the longevity and optimal performance of your BAKON BK858E station.

- **Soldering Tip Care:** Always tin the soldering tip before and after use to prevent oxidation. Clean the tip regularly with a damp sponge or brass wool. Replace tips when they become excessively worn or corroded.
- **Hot Air Nozzle Care:** Ensure hot air nozzles are free from debris. Clean them periodically to maintain proper airflow.
- **General Cleaning:** Keep the main unit and tools clean and free of dust and solder splatter. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the unit in a clean, dry environment.

5. Troubleshooting

If you encounter issues with your BAKON BK858E station, consider the following general checks:

- **No Power:** Ensure the power cord is securely plugged into both the unit and a working 110V power outlet. Check the main power switch.
- **Incorrect Temperature:** Verify that the temperature settings are correct for the tool you are using. If calibration is off, perform a temperature correction.
- **Hot Air Gun Not Heating/Blowing:** Check if the hot air gun is properly seated in its stand (if auto start/stop is enabled) or if its individual power switch is on.
- **Soldering Iron Not Heating:** Ensure the soldering iron's individual power switch is on. Check the connection to the main unit.

For persistent issues or problems not listed here, please contact BAKON customer support.

6. Specifications

Feature	Specification
Working Voltage	AC110V/60Hz
Total Power Output	650 Watts
Hot Air Gun Temperature Range	100-500°C (212-932°F)
Soldering Iron Temperature Range	180-480°C (356-896°F)
Hot Air Gun Temperature Stability	±3°C
Soldering Iron Temperature Stability	±2°C
Display Type	LED
Item Weight	1.15 pounds (approx. 522 grams)
Package Dimensions	12.64 x 5.2 x 2.56 inches
Model Number	BK858E

7. Warranty and Support

This BAKON Hot Air Rework Kit is covered by an exclusive **1-year product warranty** in the U.S. for manufacturing defects and malfunctions under normal use.
Our dedicated technical support team is available to provide assistance. For any questions, technical issues, or warranty claims, please contact us. We aim to provide 24-hour support.
Important Note: This product is rated for 110V U.S. specification. Connecting it to a 220V power outlet will void the warranty and may cause damage to the unit or pose a safety risk.

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