BAKON BK882

BAKON BK882 2-IN-1 Soldering and Hot Air Rework Station User Manual

Model: BK882

1. Introduction

Thank you for choosing the BAKON BK882 2-IN-1 Soldering and Hot Air Rework Station. This versatile tool combines a high-power soldering iron and a hot air gun into a single compact unit, designed for precision electronic work, repairs, and DIY projects. This manual provides detailed instructions for safe operation, setup, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

2. Safety Information

Please read all safety warnings and instructions carefully before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always operate the station in a well-ventilated area to avoid inhaling fumes.
- The soldering iron tip and hot air nozzle reach very high temperatures. Avoid direct contact with skin or flammable materials.
- Wear appropriate personal protective equipment, including safety glasses and heat-resistant gloves.
- Ensure the power cord is undamaged and properly grounded.
- Do not use the station near water or in damp conditions.
- Unplug the unit from the power outlet when not in use or before performing maintenance.
- Keep out of reach of children.

3. Package Contents

Verify that all items listed below are included in your package:

- 1 x BAKON BK882 Soldering and Hot Air Rework Station
- 1 x Soldering Iron Handle

- 1 x Hot Air Gun Handle
- 5 x Soldering Iron Tips (various shapes)
- 1 x Hot Air Nozzle
- 1 x Solder Sucker
- 1 x ESD-Safe Tweezers
- 1 x Soldering Wire (12G)
- 1 x Brass Tip Cleaner
- 1 x Instruction Manual
- 1 x Soldering Iron Bracket
- 1 x Clean Sponge



Figure 3.1: All components included in the BAKON BK882 package. This image displays the main unit, soldering iron, hot air gun, various tips, nozzles, solder sucker, tweezers, solder wire, brass cleaner, and sponge.

4. Product Overview

The BAKON BK882 features a dual-switch design for independent control of the soldering iron and hot air gun. Its large LCD display provides clear temperature readings and settings. The unit is equipped with advanced heating technology for rapid heat-up times and precise temperature control.



Digital Power Unit	
Output power	650W (Max)
Input voltage	110V 60HZ
Heat Gun	
Output power	560W(Max)
Input voltage	110V 60HZ
Temperature Range	100-500°C/212-932°F
Air volume	120L/Min
Soldering Iron Handle	
Output power	90W Max
Input voltage	110V 60HZ
Temperature Range	180-480°C/356-896°F
Resistance (tip to ground)	≤ 2 Ω
Standard soldering iron tip	900M series
Model of heating element	1370 Ceramic heating core

Figure 4.1: Front and rear view of the BAKON BK882 control unit. The front panel shows the large LCD display, power buttons, channel presets (CH1, CH2, CH3), and adjustment keys. The rear panel indicates the power switch, power plug socket, and fuse.

Key Features:

- **2-IN-1 Design:** Combines a 90W soldering iron and a 560W hot air gun.
- **Large LCD Display:** Provides real-time temperature readings for both tools.
- **Precise Temperature Control:** Digital temperature calibration and stable temperature output.
- **3 Preset Modes:** Customizable temperature channels for quick access.
- **Auto Sleep Function:** Extends tip life and saves energy for both soldering iron and hot air gun.
- **°F / °C Conversion:** Easily switch between Fahrenheit and Celsius.

5. Setup

Follow these steps to set up your BAKON BK882 station:

1. **Unpack:** Carefully remove all components from the packaging.
2. **Placement:** Place the main unit on a stable, heat-resistant surface, ensuring adequate ventilation around the unit.
3. **Connect Soldering Iron:** Plug the soldering iron handle into the designated 'Solder handle socket' on the front panel.
4. **Connect Hot Air Gun:** Plug the hot air gun handle into the 'Rework handle' socket on the front panel.
5. **Position Holders:** Place the soldering iron stand and hot air gun holder in convenient and safe locations. Ensure the hot air gun holder allows the nozzle to cool safely.
6. **Power Connection:** Connect the power cord to the 'Power plug socket' on the rear of the unit, then plug it into a grounded 110V AC power outlet.



Figure 5.1: The BAKON BK882 station fully assembled with its soldering iron, hot air gun, and accessories, ready for use.

6. Operating Instructions

6.1 Power On/Off

To power on the unit, press the main power switch on the rear panel. Then, press and hold the 'Solder Switch' (for soldering iron) or 'Rework Switch' (for hot air gun) for approximately 1 second to activate each tool independently. Repeat the process to turn them off.

6.2 Temperature Adjustment

Use the 'Up' and 'Down' keys on the control panel to adjust the desired temperature for both the soldering iron and hot air gun. The soldering iron temperature can be set from 356°F to 896°F (180°C to 480°C), and the hot air gun from 212°F to 932°F (100°C to 500°C).

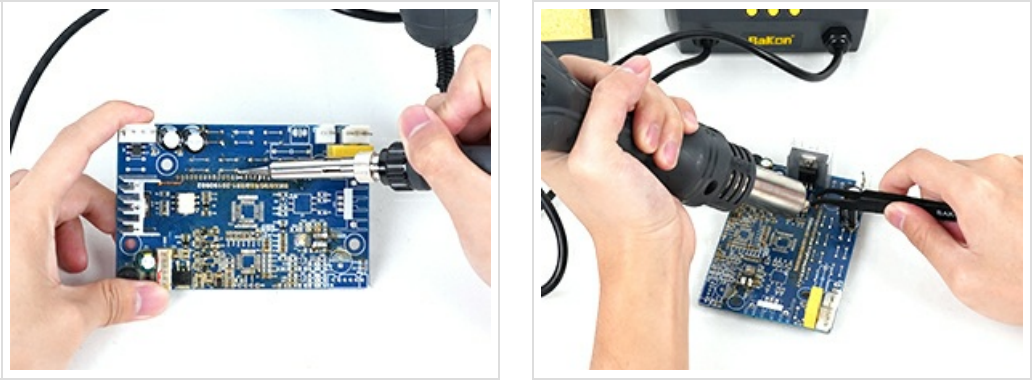


Figure 6.1: The soldering iron and hot air gun handles, demonstrating their ergonomic design for comfortable use during operation.

6.3 Preset Modes (CH1, CH2, CH3)

The station features three customizable preset channels. To save a temperature setting, adjust the desired temperature, then press and hold one of the 'CH1', 'CH2', or 'CH3' buttons until the setting is saved. To recall a preset, simply press the corresponding channel button.

6.4 Auto Sleep Function

The BK882 is equipped with an auto-sleep function to prolong the life of the heating elements and save energy:

- **Soldering Iron:** When the soldering iron is placed in its holder and remains inactive for a set period (adjustable, typically 10-60 minutes), it will automatically enter sleep mode, reducing the tip temperature to a low setting. Picking up the iron will instantly return it to the last set operating temperature.
- **Hot Air Gun:** When the hot air gun is placed in its holder, it will cool down to 212°F (100°C) and temporarily shut off. It reactivates and heats up to the set temperature when removed from the holder.

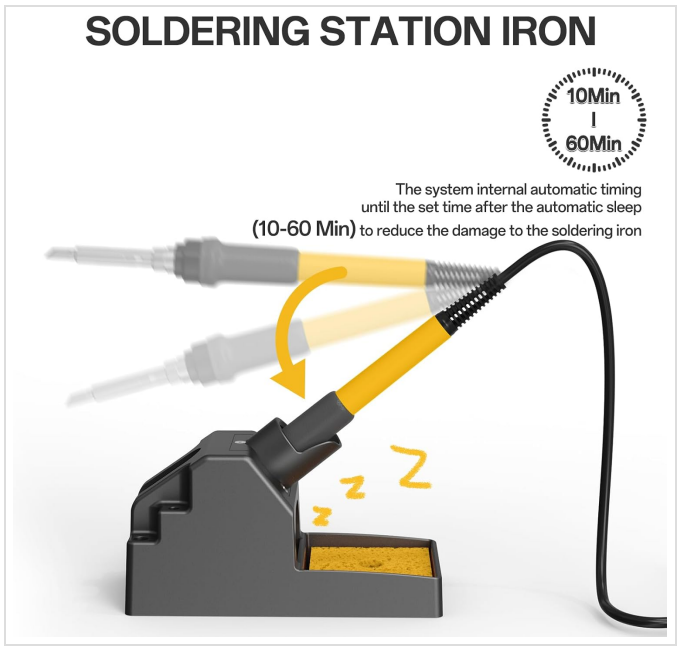




Figure 6.2: Visual representation of the auto-sleep function for both the soldering iron and the hot air gun, illustrating how they reduce temperature when idle.

6.5 °F / °C Conversion

The unit supports switching between Fahrenheit and Celsius temperature displays. Refer to the manual's specific section on display settings, usually accessible via the 'Menu' key, to change this preference.

6.6 Temperature Calibration

For advanced users requiring precise temperature accuracy, the BK882 offers a digital temperature calibration function. Consult the detailed instructions in the full manual for the calibration procedure, typically accessed through the 'Menu' key.

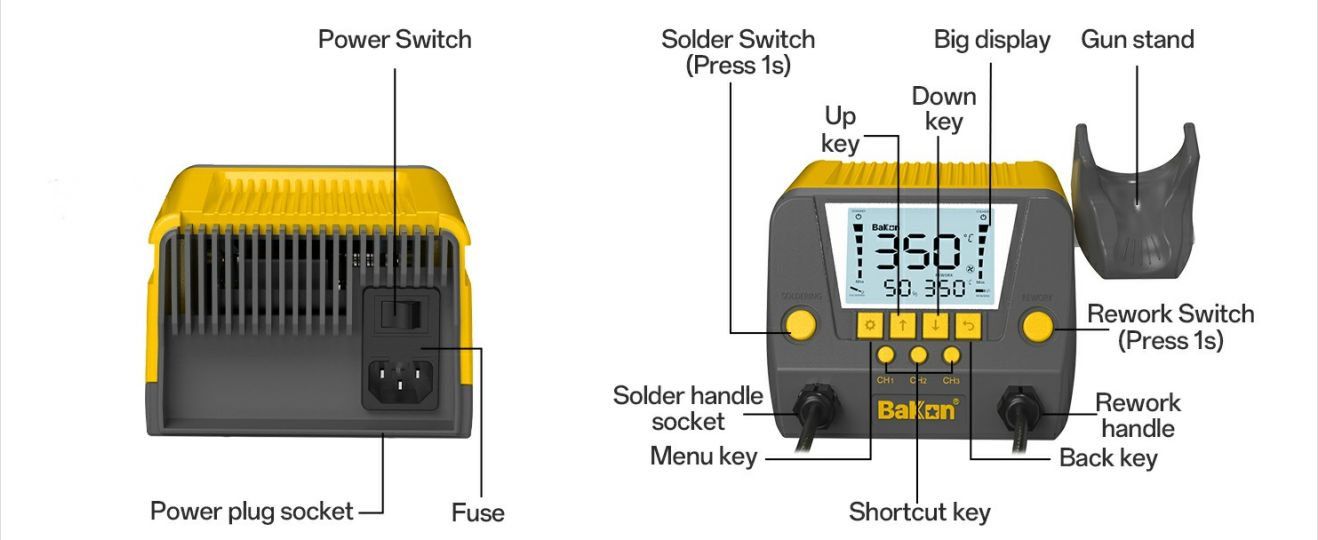


Figure 6.3: Examples of common applications for the BAKON BK882, such as chip dismantling, circuit board repair, main board welding, and general electronic maintenance.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your soldering station.

7.1 Soldering Iron Tip Cleaning

- Always clean the soldering iron tip before and after use.
- Use the included brass tip cleaner or a damp sponge to wipe off excess solder and oxidation.
- Tin the tip with a small amount of fresh solder after cleaning to prevent oxidation.
- Replace tips when they become excessively worn or corroded.

7.2 Hot Air Nozzle Cleaning

- Ensure the hot air gun is cool before attempting to clean the nozzle.
- Gently wipe the nozzle with a soft cloth to remove any residue.
- Do not use abrasive materials or harsh chemicals that could damage the nozzle.

7.3 General Care

- Keep the main unit clean and free from dust and debris.
- Store the station in a dry, safe place when not in use.
- Regularly inspect power cords and connections for any signs of damage.

8. Troubleshooting

This section addresses common issues you might encounter with your BAKON BK882 station.

Problem	Possible Cause	Solution
Unit does not power on	No power, faulty power cord, blown fuse	Check power outlet, inspect power cord, replace fuse (refer to Figure 4.1 for fuse location).
Soldering iron/Hot air gun not heating	Tool not activated, loose connection, heating element failure (H-E error)	Ensure tool is switched on. Check cable connections. If 'H-E' error appears, contact customer support.
Temperature display inaccurate	Needs calibration	Perform temperature calibration as per section 6.6.
Poor solder joints	Incorrect temperature, dirty tip, improper technique	Adjust temperature, clean and tin tip, review soldering techniques.

9. Specifications

Detailed technical specifications for the BAKON BK882 2-IN-1 Soldering and Hot Air Rework Station:

Component	Specification
Digital Power Unit	
Output Power	650W (Max)
Input Voltage	110V 60Hz
Hot Air Gun	
Output Power	560W (Max)
Input Voltage	110V 60Hz
Temperature Range	212-932°F (100-500°C)

Component	Specification
Air Volume	120L/Min
Soldering Iron Handle	
Output Power	90W Max
Input Voltage	110V 60Hz
Temperature Range	356-896°F (180-480°C)
Resistance (tip to ground)	≤ 2 Ω
Standard Soldering Iron Tip	900M series
Model of Heating Element	1370 Ceramic heating core
General	
Item Weight	4.27 pounds (1.94 kg)
Package Dimensions	11.1 x 8.9 x 5 inches
Power Source	Corded Electric
Display Type	Digital LCD

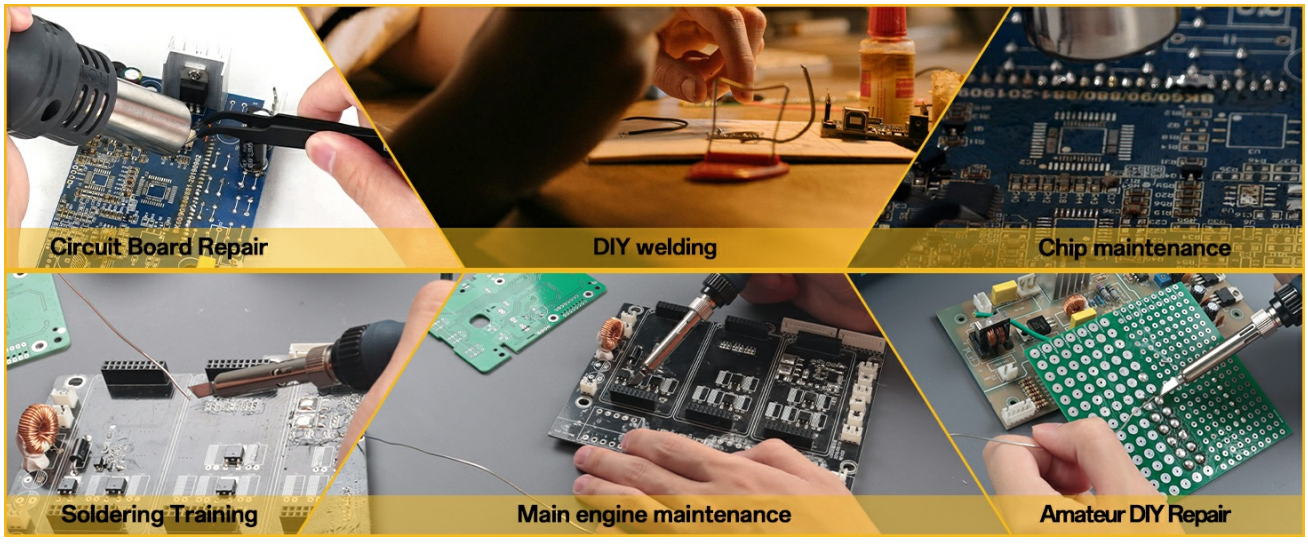


Figure 9.1: A comprehensive table outlining the technical specifications of the BAKON BK882, including power, voltage, temperature ranges, and physical dimensions.

10. Warranty and Support

BAKON products are manufactured to high-quality standards. For warranty information, please refer to the documentation provided with your purchase or contact BAKON customer support directly. If you encounter any issues or require assistance, please reach out to the seller or manufacturer through their official channels. Keep your purchase receipt as proof of purchase for warranty claims.