

## Lytool BK881



# Lytool BK881 2-in-1 Soldering and Hot Air Rework Station User Manual

Model: BK881

## 1. INTRODUCTION

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Thank you for choosing the Lytool BK881 2-in-1 Soldering and Hot Air Rework Station. This device combines a 90W soldering iron and a 650W hot air gun, offering versatile functionality for various electronic repair and rework tasks. It features precise temperature control, an LCD display, memory presets, and safety functions to ensure efficient and reliable operation. Please read this manual thoroughly before use to ensure proper operation and to prevent damage to the unit or injury.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions to prevent electric shock, fire, or personal injury:

- Ensure the power supply voltage matches the requirements specified on the unit.
- Do not operate the station in damp or wet conditions.
- The soldering iron and hot air gun reach very high temperatures. Avoid direct contact with heated parts.
- Always use the provided stands for the soldering iron and hot air gun when not in use.
- Work in a well-ventilated area to avoid inhaling solder fumes.
- Wear appropriate personal protective equipment, including safety glasses.
- Unplug the unit from the power outlet before cleaning or maintenance.
- Keep out of reach of children.
- The unit features automatic short-circuit protection for the heating core, displaying H-E or S-E in case of an issue.

## 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- 1 x Lytool BK881 Soldering and Hot Air Rework Station
- 1 x Soldering Iron with Cable
- 1 x Hot Air Gun with Cable
- 5 x Assorted Soldering Tips
- 2 x Hot Air Nozzles (5mm, 7mm)
- 1 x ESD Safe Tweezers
- 1 x Lead-free Solder Wire
- 1 x Soldering Iron Stand (with brass ball cleaner)
- 1 x Hot Air Gun Holder
- 1 x Cleaning Sponge
- 1 x Solder Sucker
- 1 x Power Cord

## 4. PRODUCT OVERVIEW

The Lytool BK881 station integrates both soldering and hot air functions into a single compact unit. The main unit features a 2.9-inch LCD display for clear temperature and airflow readings, along with control buttons for settings adjustment.



Image: Lytool BK881 2-in-1 Soldering and Hot Air Rework Station with key features highlighted, including short circuit protection, anti-static tweezers, PID control, large LCD, rapid heating/cooling, password lock, °C/°F conversion, adjustable temperature, auto sleep, and soldering iron safety lock.

### 4.1 Soldering Iron

The 90W soldering iron provides rapid heating and stable temperature for precise soldering tasks. It comes with various tips for different applications.

### 4.2 Hot Air Gun

The 650W hot air gun is designed for desoldering and rework of SMD components. It features adjustable airflow and temperature, with automatic cool-down when placed in its holder.

## FER À SOUDER









600-B 600-2.4D 600-3C 600-SK 600-K

Plage de Température	356 °F-896 °F/180 °C-480 °C
Puissance de Sortie	90W
5 Pointes de Fer à Souder	600-B 600-2.4D 600-3C 600-SK 600-K
Type d'affichage	Affichage LED

Caractéristiques :  
Pointes de soudure remplaçables, chauffage rapide, large température réglable, mode veille.

Plage de Température	210°F-930°F/100°C-500°C
Puissance de sortie	560W
Volume d'Air	120L/min
2 Buses Standard	5mm,7mm
Type d'Affichage	Affichage LED

Caractéristiques : Réchauffement rapide, mode veille, pointes de pistolet à souder remplaçables.

## PISTOLET THERMIQUE






Image: Detailed view of the soldering iron tips (600-B, 600-2.4D, 600-3C, 600-SK, 600-K) and hot air nozzles (5mm, 7mm) with their respective specifications, including temperature range, output power, and display type.

## 5. SETUP

1. **Unpacking:** Carefully remove all components from the packaging. Retain the packaging for future storage or transport.
2. **Placement:** Place the main unit on a stable, heat-resistant surface. Ensure adequate ventilation around the unit.
3. **Attach Hot Air Gun Holder:** Secure the hot air gun holder to the side of the main unit using the provided screws. You can choose between two positions.
4. **Connect Components:**
  - Connect the soldering iron cable to the designated port on the front panel.
  - Connect the hot air gun cable to its designated port.
5. **Position Stands:** Place the soldering iron stand and hot air gun holder in convenient locations on your workbench. Ensure the cleaning sponge in the soldering iron stand is slightly dampened.
6. **Power Connection:** Connect the power cord to the main unit and then plug it into a grounded power outlet.

## 6. OPERATING INSTRUCTIONS

### 6.1 Power On/Off

Press the main power switch to turn the unit on or off. The LCD display will illuminate upon power-on.

### 6.2 Soldering Iron Operation

1. **Temperature Adjustment:** Use the dedicated temperature control buttons for the soldering iron to set the desired temperature between 180°C and 480°C (356°F and 896°F). The PID sensor ensures rapid heating and stable temperature.

2. **Memory Presets:** The unit features 3 memory buttons (M1, M2, M3) for the soldering iron. Set your desired temperature and then press and hold a memory button to save it. A short press will recall the saved temperature.
3. **Tip Replacement:** Allow the soldering iron to cool completely before changing tips. Unscrew the retaining nut, remove the old tip, insert the new tip, and secure the nut.
4. **Automatic Sleep Mode:** The soldering iron will enter sleep mode after a user-defined period of inactivity (adjustable). This conserves energy and prolongs tip life.
5. **Temperature Calibration:** If temperature accuracy is critical, the unit supports digital temperature calibration. Refer to the on-screen menu for instructions.

### 6.3 Hot Air Gun Operation

1. **Temperature Adjustment:** Use the dedicated temperature control buttons for the hot air gun to set the desired temperature between 100°C and 500°C (210°F and 930°F). The unit heats up to 896°F in approximately 7 seconds.
2. **Airflow Adjustment:** Adjust the airflow using the corresponding control on the main unit. Start with lower airflow for delicate components and increase as needed.
3. **Nozzle Replacement:** Ensure the hot air gun is cool before changing nozzles. Select the appropriate nozzle (5mm or 7mm) for your task and attach it securely.
4. **Automatic Cool-down and Sleep:** When the hot air gun is placed in its holder, it will automatically initiate a cool-down cycle and then enter sleep mode, extending the life of the heating element.

### 6.4 Advanced Features

- **°C/°F Conversion:** Easily switch between Celsius and Fahrenheit temperature displays via the menu settings.
- **Password Protection:** The unit can be locked with a password to prevent unauthorized changes to settings.
- **ESD Safety:** The station is designed with anti-static features to protect sensitive electronic components from electrostatic discharge.

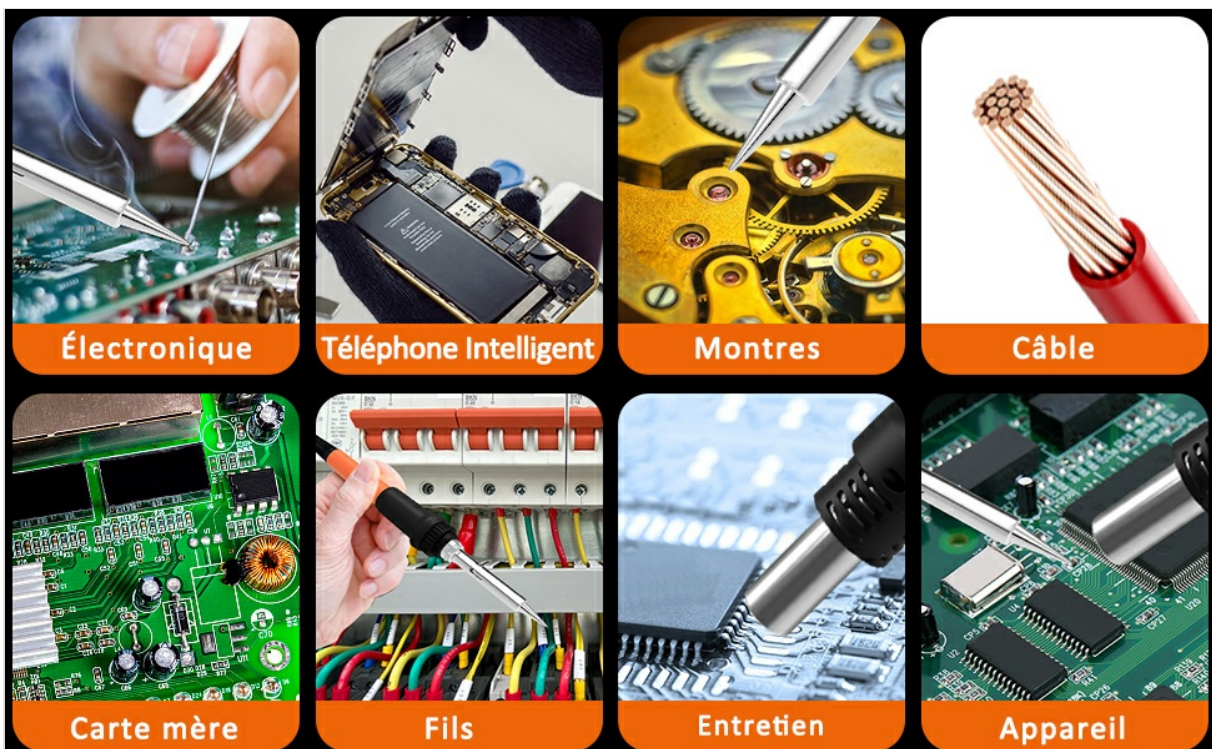


Image: Examples of applications for the Lytool soldering station, including electronics, smartphone repair, watch repair, cable work, motherboard repair, wire connections, general maintenance, and appliance repair.

## 7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Lytool BK881 station.

- **Soldering Tip Cleaning:** Regularly clean soldering tips using the brass ball cleaner or a damp sponge. This removes oxidation and solder residue, improving heat transfer and tip life.
- **Hot Air Nozzle Cleaning:** Ensure hot air nozzles are free from debris. Clean them when cool using a soft brush or cloth.
- **Unit Cleaning:** Wipe the main unit and tools with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Ceramic Heating Core:** The ceramic heating core provides stable temperature. Avoid strong impacts or dropping the hot air gun, as this can damage the quartz glass and mica paper components.

## 8. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on	No power supply; loose power cord	Check power connection and outlet.
Soldering iron/Hot air gun not heating	Loose connection; faulty heating element	Check cable connections. If problem persists, contact support.
Display shows "H-E" or "S-E"	Heating core short-circuit protection activated	Turn off the unit, check connections, and restart. If error persists, contact support.
Unstable temperature readings	Sensor issue; need for calibration	Perform temperature calibration. Ensure connections are secure.

For issues not listed here or if solutions do not resolve the problem, please contact Lytool customer support.

## 9. SPECIFICATIONS

Feature	Specification
Model	BK881
Soldering Iron Power	90W
Soldering Iron Temperature Range	180°C - 480°C (356°F - 896°F)
Hot Air Gun Power	650W (Total power listed as 650W in product specs, likely referring to hot air gun max)

Feature	Specification
Hot Air Gun Temperature Range	100°C - 500°C (210°F - 930°F)
Air Volume	Up to 120 L/min
Display Type	2.9-inch LCD
Temperature Stability	±1°F
Dimensions (Package)	28.1 x 23 x 12.6 cm
Weight (Package)	3.1 kg
Material	Iron (components)

## 10. WARRANTY AND SUPPORT

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Lytool products are manufactured to high-quality standards. For warranty information, please refer to the documentation included with your purchase or contact your retailer. If you require technical assistance or have questions regarding the operation or maintenance of your Lytool BK881 station, please contact Lytool customer support through the official website or your purchase platform.