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LAKIX Soldering Station

LAKIX 75W Digital Soldering Station Instruction Manual

Model: Soldering Station

Brand: LAKIX

1. INTRODUCTION AND OVERVIEW

The LAKIX 75W Digital Soldering Station is designed for precise heat control, making it suitable for home appliance and DIY repairs. It features a rapid heating system, digital temperature display with °C/°F conversion, and intelligent functions like auto-sleep and calibration support. This manual provides essential information for safe and effective operation, maintenance, and troubleshooting of your soldering station.



Figure 1.1: LAKIX 75W Digital Soldering Station and included accessories.

2. SAFETY INFORMATION

WARNING: Always read and understand all safety warnings and instructions before using this product. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- Ensure adequate ventilation in your workspace to avoid inhaling solder fumes.
- Always wear appropriate personal protective equipment, including safety glasses, to protect against splashes of molten solder.
- The soldering iron tip and heating element reach very high temperatures. Avoid direct contact with skin or flammable materials.
- Always place the soldering iron in its designated stand when not in use.
- This product is designed for 110-127V, US plug only. Never plug into 220V-240V outlets.
- Disconnect the power supply when cleaning, performing maintenance, or when the tool is not in use.
- Keep out of reach of children.

3. PACKAGE CONTENTS

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

- 1 x 75W Soldering Station Unit
- 1 x Soldering Iron Pen
- 5 x Iron Head Tips (various shapes)
- 1 x Bakelite Soldering Iron Frame (Stand)
- 1 x 50g Roll of Lead-free Solder Wire
- 1 x Soldering Tweezers
- 1 x Cleaning Sponge
- 1 x Desoldering Wick



Figure 3.1: Comprehensive view of all included accessories.

4. SETUP

1. **Connect the Soldering Iron Pen:** Insert the soldering iron pen's connector into the corresponding port on the front of the soldering station unit. Ensure it is securely inserted.

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Video 4.1: Demonstrates connecting the soldering iron pen to the LAKIX 75W Soldering Station.

2. **Power Connection:** Plug the power cord into a standard 110-127V AC outlet.
Important: Do not connect to 220V-240V outlets.
3. **Power On:** Flip the power switch on the front panel to the "ON" position. The digital display will illuminate.
4. **Place in Stand:** Place the soldering iron securely in the bakelite soldering iron frame when not actively soldering.
5. **Prepare Cleaning Sponge:** Lightly wet the cleaning sponge with water and place it in the designated area of the soldering iron stand. This is used for cleaning the soldering tip.

5. OPERATING INSTRUCTIONS

5.1. Temperature Control

The LAKIX Soldering Station offers precise temperature control from 90°C to 480°C (194°F to 896°F). The unit maintains a steady temperature via PID stabilization for efficient use.

- Use the ▲ and ▼ buttons to adjust the desired temperature. The digital display will show the set temperature.
- The soldering iron heats rapidly, typically reaching the set temperature within 10 seconds.



Figure 5.1: Digital display indicating rapid temperature rise.

5.2. °C/°F Conversion

To switch between Celsius (°C) and Fahrenheit (°F) temperature display:

1. Simultaneously press the three keys (▲, *, ▼) and then the power button.
2. Select your desired temperature unit (C or F) and press the* (confirm) button.

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Video 5.2: Instructions on how to set different parameters, including °C/°F conversion.

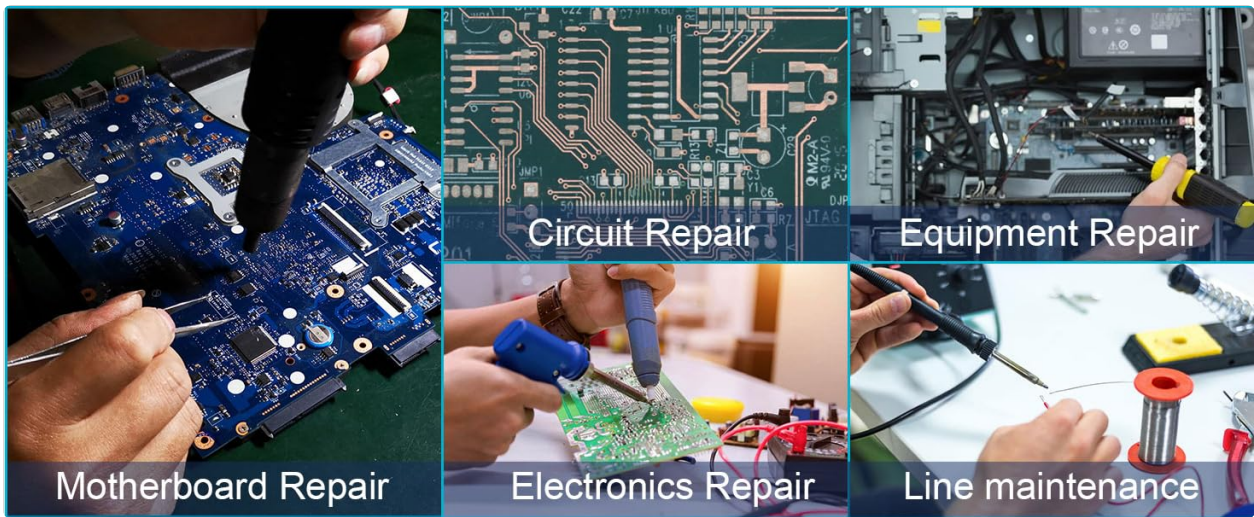


Figure 5.2: Display showing temperature unit conversion.

5.3. Auto Sleep Function

The soldering iron kit automatically enters sleep mode after 20 minutes of inactivity to prolong its lifespan. To resume use, simply shake the handle.

To enable or disable the auto-sleep function:

1. Press the ▲ and ▼ buttons together, then press the power button.
2. Select "ON" or "OFF" for sleep mode, then press the* (confirm) button.

Sleep Mode & Auto Wake

Automatically enter sleep mode after **20 min** of inactivity.

Easily resume use by shaking the handle.



Figure 5.3: Soldering station displaying sleep mode indicator.

5.4. Temperature Calibration

To calibrate the temperature for optimal accuracy:

1. Simultaneously press the ▲ and ▼ buttons in the ON state.
2. Adjust the displayed temperature according to actual measured temperature differences.

CUSTOM SETTINGS



Temperature Calibration:

Simultaneously press "◀" and "▶" in the ON state.



Sleep Mode On/Off Switch:

Press "◀" and "▶" together, then the power button.



Change Temperature Unit:

Simultaneously press "◀" * "▶" and then the power button.

Figure 5.4: Visual guide for custom settings including temperature calibration.

5.5. Application Showcase: Through-Hole Soldering

The LAKIX Soldering Station is ideal for various applications, including through-hole soldering on circuit boards.

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Video 5.5: Demonstration of through-hole soldering using the LAKIX 75W Soldering Station.

6. MAINTENANCE

6.1. Tip Cleaning

Regular cleaning of the soldering iron tip is crucial for optimal performance and longevity. The ceramic heating core requires gentle handling.

- Clean tin slag by wiping gently on a damp sponge.
- Avoid excessive force when cleaning the tip to prevent damage.

Soldering Iron Station

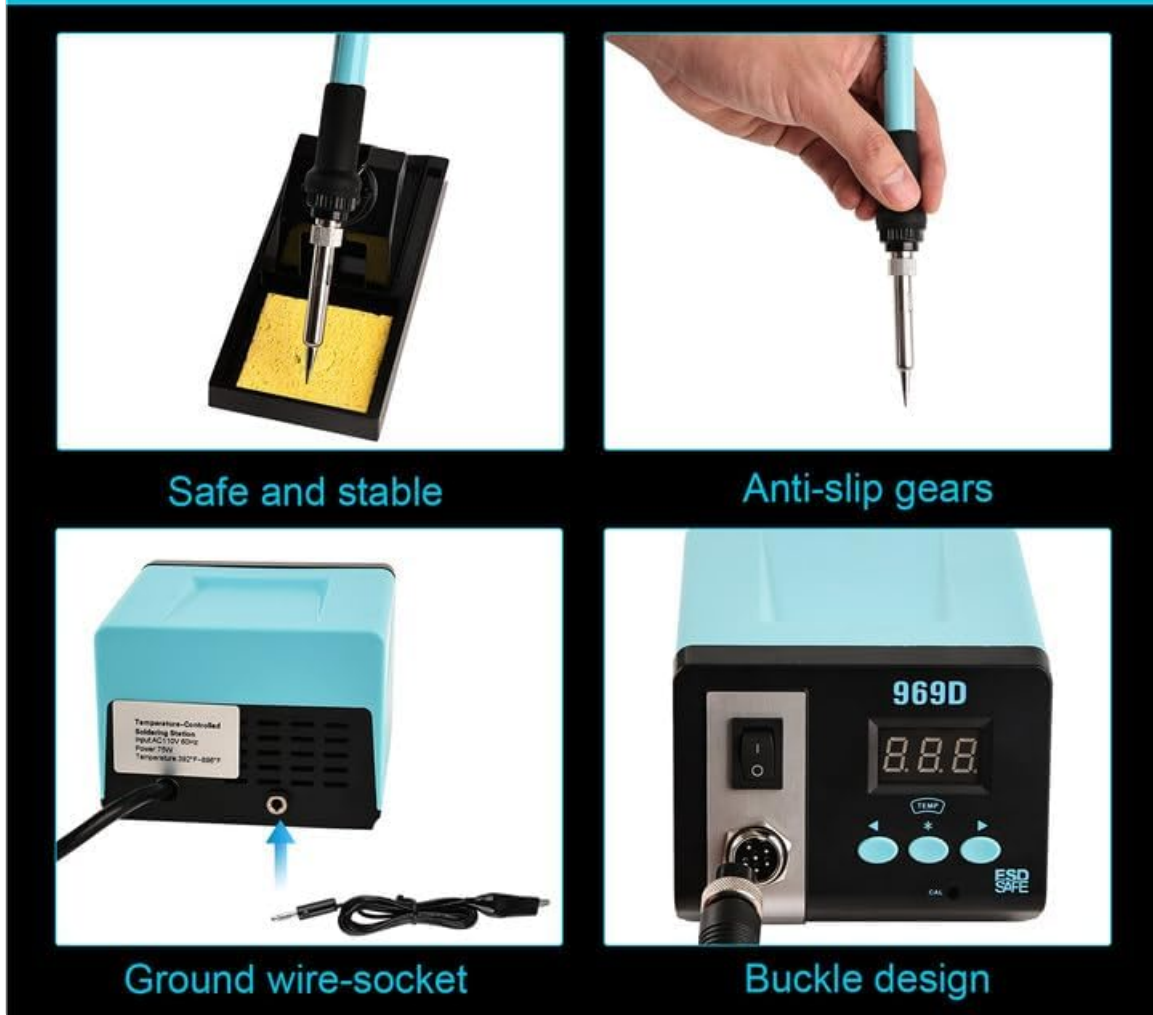


Figure 6.1: Soldering iron stand with cleaning sponge for tip maintenance.

6.2. General Care

- Store the soldering station in a dry, clean environment when not in use.
- Ensure the unit is unplugged and cooled down before storage or transport.
- Keep the unit free from dust and debris.

7. TROUBLESHOOTING

7.1. "S-E" Errors

If "S-E" appears on the screen, it indicates a sensor failure or a short circuit in the heating core.

- **Response Measure 1:** Re-calibrate the temperature as described in Section 5.4.
- **Response Measure 2:** Check if the handle plug is securely inserted into the soldering station unit.
- If the error persists after these steps, contact LAKIX customer support for further assistance.

Short circuit protection

When SE appears on the screen, the sensor fails.



S.-E.



Response measures:

1. Re-calibrate temperature.
2. Check if the handle plug is securely inserted.

Figure 7.1: Display showing "S-E" error indicating a sensor issue.

8. SPECIFICATIONS

Feature	Detail
Brand	LAKIX
Model Number	Soldering Station
Wattage	75 watts
Voltage	110-127V (US Plug Only)
Temperature Range	90°C to 480°C / 194°F to 896°F
Temperature Stability	PID Stabilization
Display Type	LCD
Auto Sleep	After 20 minutes of inactivity
Short Circuit Protection	Yes, with auto-alarm for abnormal shorts
Item Weight	4.13 pounds
Product Dimensions	5.1 x 4.4 x 3.4 inches
Material	Ceramic (heating core)

9. WARRANTY AND SUPPORT

LAKIX stands behind the quality of its products. For warranty information, technical support, or any questions regarding your 75W Digital Soldering Station, please refer to the contact information provided with your purchase or visit the official LAKIX website.

We recommend registering your product to receive updates and support.