

## YIHUA 862BD+ Soldering and Rework Station

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This document is part of the Mastercard Makerspace Equipment Library.

All devices and tools listed herein are maintained according to internal safety and operational standards.

For support, contact the Makerspace coordinator.

## Mastercard Makerspace Technical Manual

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### Table of Contents

1. Overview and Specifications
2. Safety and Compliance Information
3. Installation / Setup
4. Operating Modes and Usage Examples
5. Maintenance Schedule
6. Troubleshooting Guide
7. Accessories or Compatible Components
8. Warranty and Support Notes

## YIHUA 862BD+ Soldering and Rework Station User Manual

### Overview

Model: 862BD+

Manufacturer: YIHUA

Category: Electronics

The YIHUA 862BD+ is a dual-function soldering and hot-air rework station with digital temperature control, ESD-safe design, and automatic cooling. Suitable for PCB repair, SMD soldering, and prototyping tasks.

### 1\ Setup

1. Connect the station to power.
2. Attach soldering iron and hot-air gun.
3. Set temperature ( C or F) using digital controls.
4. Wait until ready indicators light up.

### 2\ Operation

Use the soldering iron for through-hole components and the hot-air gun for SMD parts. Adjust airspeed and temperature as required.

### 3\ Safety

Do not touch heated tips. Turn off power after use. Ensure ventilation when soldering.

Makerspace Tool Manual

4\ Maintenance

Replace tips when oxidized. Clean soldering stand and filter monthly.

5\ Troubleshooting

If heat is low, check element connections. If air gun fails, replace heater coil.

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Table of Contents

- 1. Overview and Specifications
- 2. Safety and Compliance Information
- 3. Installation and Setup
- 4. Operating Modes and Usage Examples
- 5. Maintenance Schedule
- 6. Troubleshooting Guide
- 7. Accessories and Compatible Components
- 8. Warranty and Support

Overview and Specifications

The YIHUA 862BD+ Soldering and Rework Station is a versatile, dual-function device designed for precision electronics work, including PCB repair, SMD soldering, and prototyping tasks. It features digital temperature control, an ESD-safe design, and automatic cooling.

Specifications

- Model: 862BD+
- Manufacturer: YIHUA
- Dimensions: 188mm x 126mm x 250mm (L x W x H)
- Weight: 3.8 kg
- Power Supply: 220V AC, 50Hz
- Power Consumption: 720W
- Temperature Range:
  - Soldering Iron: 200 C - 480 C (392 F - 896 F)
  - Hot-Air Gun: 100 C - 480 C (212 F - 896 F)
- Airflow: 120L/min (maximum)
- Display: Digital LED

Safety and Compliance Information

ESD Safety: The YIHUA 862BD+ is designed to prevent electrostatic discharge, protecting sensitive components.

Compliance: This device complies with CE and RoHS standards. **Makerspace Tool Manual**

Safety Precautions:

- Do not touch heated tips or nozzles.
- Ensure proper ventilation during operation.
- Turn off the power and unplug the device when not in use.
- Keep away from flammable materials.

**Installation and Setup**

Follow these steps to set up your YIHUA 862BD+ Soldering and Rework Station:

1. Connect to Power:

Plug the station into a suitable power outlet (220V AC, 50Hz).

2. Attach Components:

Securely attach the soldering iron and hot-air gun to their respective ports.

3. Set Temperature:

Use the digital controls to select the desired temperature in either Celsius or Fahrenheit.

4. Ready Indicators:

Wait for the ready indicators to light up, signaling that the station is ready for use.

**Operating Modes and Usage Examples**

Soldering Iron:

- Ideal for through-hole components.
- Adjust temperature based on solder type and component sensitivity.

Hot-Air Gun:

- Suitable for SMD parts and rework.
- Adjust airspeed and temperature for component size and solder paste.

**Usage Example**

PCB Repair:

- Use the soldering iron to remove and replace through-hole components.
- Utilize the hot-air gun for SMD component reflow and desoldering.

**Maintenance Schedule**

Task	Frequency
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Replace soldering iron tips	As needed
Clean soldering stand	Monthly
Replace hot-air gun filter	Monthly

## Troubleshooting Guide

Problem | Cause | Solution

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Low heat output | Poor element connections | Check and secure connections

Hot-air gun not functioning | Faulty heater coil | Replace heater coil

Display not working | Power supply issue | Verify power connection

Inconsistent temperature | Sensor malfunction | Replace temperature sensor

## Accessories and Compatible Components

Replacement Tips: Available in various sizes and shapes for different soldering tasks.

Nozzles: Interchangeable nozzles for the hot-air gun to accommodate different component sizes.

Soldering Stand: Compatible with most YIHUA soldering stands.

## Warranty and Support

The YIHUA 862BD+ comes with a one-year limited warranty covering parts and labor for manufacturing defects. For support, please contact YIHUA customer service at [support@yihua.com](mailto:support@yihua.com) or visit our website at [\[www.yihua.com\]](http://www.yihua.com)(<http://www.yihua.com>).

Note: Warranty does not cover damage due to misuse, unauthorized modifications, or accidental damage.

End of Manual

## Resources:

*End of Manual - For updates, please check the latest version at:*

[https://mpandey-mastercard.github.io/makerspace-manuals/manuals/tool\\_003\\_manual.pdf](https://mpandey-mastercard.github.io/makerspace-manuals/manuals/tool_003_manual.pdf)

- Manual Pdf Local: [/manuals/tool\\_003\\_manual.pdf](/manuals/tool_003_manual.pdf)

- Manual Pdf Public: [https://mpandey-mastercard.github.io/makerspace-manuals/manuals/tool\\_003\\_manual.pdf](https://mpandey-mastercard.github.io/makerspace-manuals/manuals/tool_003_manual.pdf)

- Tutorial Video: <https://www.youtube.com/watch?v=6aJOgF6gK6Q>

- Qr Code: [https://mpandey-mastercard.github.io/makerspace-manuals/qrcodes/tool\\_003\\_qr.png](https://mpandey-mastercard.github.io/makerspace-manuals/qrcodes/tool_003_qr.png)