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YIHUA 882D

YIHUA 882D 2-in-1 Soldering & Hot Air Rework Station User Manual

Model: 882D | Brand: YIHUA

Introduction

The YIHUA 882D is a versatile 2-in-1 rework station that combines a soldering iron and a hot air gun in a compact unit. It features independent LED displays, power switches, and controls for temperature and air volume. This device is suitable for various applications including heat shrinking, drying, paint removal, adhesive removal, defrosting, preheating, and soldering.

Equipped with a built-in PID program, the YIHUA 882D ensures precise temperature control for both the soldering iron and hot air gun. Its multi-functional design includes a soldering iron sleep mode, hot air gun standby mode, °C/°F unit switching, automatic shutdown, and calibration functions, all designed to optimize performance, reduce power consumption, and extend tool lifespan.



Image: The YIHUA 882D rework station highlighting its dual functionality as a soldering iron and hot air gun.

Safety Precautions

WARNING: This product is designed for 100V power supply ONLY. For your safety, DO NOT use with 200V~240V power supplies.

- Always ensure the power supply matches the product's voltage requirements (100V).
- Operate the device in a well-ventilated area to avoid inhaling fumes.
- Wear appropriate personal protective equipment, including safety glasses and heat-resistant gloves.
- Do not touch the hot air nozzle or soldering iron tip when the unit is powered on or cooling down.
- Place the hot air gun and soldering iron in their respective holders when not in use.
- Keep flammable materials away from the work area.
- Unplug the unit from the power outlet when not in use or before performing maintenance.
- Keep out of reach of children.

Product Overview

The YIHUA 882D integrates two primary tools: a soldering iron and a hot air gun. The main unit features controls for both, along with digital displays for temperature settings.

Main Components:

- **Main Control Unit:** Houses the power supply, control circuitry, and digital displays for temperature and air flow.
- **Hot Air Gun:** Used for desoldering surface-mount components, heat shrinking, and other applications requiring controlled hot air.
- **Soldering Iron:** For precise soldering tasks.
- **Hot Air Gun Holder:** Safely stores the hot air gun when not in use and activates standby mode.

- **Soldering Iron Stand:** Provides a secure resting place for the soldering iron.
- **Nozzles:** Various sizes for the hot air gun.
- **Soldering Tips:** Different shapes for various soldering applications.
- **Solder Wire:** For general soldering.
- **Solder Sucker:** For removing excess solder.
- **Tweezers:** For handling small components.



Image: A comprehensive set of accessories including various nozzles, soldering tips, solder wire, solder sucker, and tweezers.

Setup

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any damage.
2. **Placement:** Place the main control unit on a stable, heat-resistant, and well-ventilated workbench. Ensure sufficient space around the unit for proper airflow.
3. **Connect Hot Air Gun:** Connect the hot air gun cable to the designated port on the main unit. Secure it firmly.
4. **Connect Soldering Iron:** Connect the soldering iron cable to its designated port on the main unit. Secure it firmly.
5. **Install Holders:** Place the hot air gun holder and soldering iron stand in convenient locations on your workbench, ensuring they are stable and easily accessible.
6. **Power Connection:** Ensure the power switch on the main unit is in the "OFF" position. Connect the power cord to the main unit, then plug it into a 100V AC power outlet.
7. **Initial Check:** Before turning on, double-check all connections and ensure no flammable materials are near the hot air gun or soldering iron.

Operating Instructions

General Operation:

- **Power On/Off:** Flip the main power switch to turn the unit on or off.
- **Temperature Unit Switch:** Press the °C/°F button to toggle between Celsius and Fahrenheit temperature displays.

Hot Air Gun Operation:

1. **Select Hot Air Mode:** Press the "HOT AIR" button on the control panel.
2. **Adjust Temperature:** Use the temperature adjustment buttons (+/-) to set the desired hot air temperature (range: 100°C - 480°C).
3. **Adjust Air Volume:** Rotate the "AIR" knob to adjust the airflow intensity.
4. **Start/Stop:** The hot air gun will automatically start heating when removed from its holder and stop/cool down when placed back.
5. **Standby Mode:** When the hot air gun is placed in its holder, it enters standby mode and automatically cools down to

100°C. This extends the lifespan of the heating element.



Image: Demonstrates the hot air gun being used to rework components on a circuit board.



Image: Illustration of the hot air gun's automatic start when lifted and stop when placed in its holder.

Soldering Iron Operation:

1. **Select Soldering Iron Mode:** Press the "IRON" button on the control panel.
2. **Adjust Temperature:** Use the temperature adjustment buttons (+/-) to set the desired soldering iron temperature (range: 200°C - 480°C).
3. **Pre-tinning:** Before first use, or after changing a tip, pre-tin the soldering iron tip with solder to prevent oxidation.
4. **Soldering:** Apply the tip to the joint, then feed solder onto the joint, not directly onto the tip.
5. **Sleep Mode:** If the soldering iron is inactive for more than 10 minutes, it will enter a low-temperature sleep mode to conserve energy and extend tip life.



Image: A user performing soldering work on a circuit board with the YIHUA 882D soldering iron.



Image: Visual representation of the soldering iron entering sleep mode after a period of inactivity.

Automatic Shutdown:

The unit features an automatic shutdown function. If the soldering iron and hot air gun are inactive for more than 20 minutes, the entire station will automatically shut down to save energy and enhance safety.



Image: A power icon indicating the automatic shutdown feature of the rework station.

Maintenance

- **Soldering Iron Tip Cleaning:** Regularly clean the soldering iron tip using a damp sponge or brass wool to remove solder residue. Re-tin the tip after cleaning.
- **Nozzle Cleaning:** Ensure hot air gun nozzles are free from debris. Clean them gently if necessary.
- **General Cleaning:** Wipe the main unit and tools with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Tip Replacement:** Replace soldering tips when they become excessively worn or corroded to maintain optimal performance.
- **Storage:** Store the unit in a dry, dust-free environment when not in use.

Troubleshooting

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; loose power cord; faulty power switch.	Check power outlet and cord connection. Ensure power switch is ON.
Soldering iron not heating.	Loose connection; faulty heating element/tip; incorrect temperature setting.	Check connection. Ensure temperature is set correctly. Replace tip/heating element if necessary.

Problem	Possible Cause	Solution
Hot air gun not heating or no airflow.	Loose connection; faulty heating element/fan; hot air gun not removed from holder.	Check connection. Ensure hot air gun is removed from holder. Adjust air volume. Replace component if faulty.
Temperature display error (e.g., "S-E").	Sensor error.	Turn off the unit, unplug, wait a few minutes, then plug back in and restart. If the error persists, contact support.

Specifications

Feature	Detail
Brand	YIHUA
Model	882D
Voltage	100 Volts AC
Total Wattage	530 W
Hot Air Gun Temperature Range	100°C - 480°C (212°F - 896°F)
Soldering Iron Temperature Range	200°C - 480°C (392°F - 896°F)
Included Components	Nozzles, Soldering Tips, Solder Wire, Solder Sucker, Tweezers
Country of Origin	China

Warranty and Support

YIHUA offers a **1-year maintenance warranty** from the date of purchase for this product. This warranty covers manufacturing defects and malfunctions under normal use.
For any questions, concerns, or technical support, please feel free to contact YIHUA JAPAN OFFICIAL STORE through Amazon. Our support team is available year-round to assist you.
Please refer to your purchase receipt or order details for specific warranty claim procedures.
Contact Information:

- Via Amazon messaging system (search for YIHUA JAPAN OFFICIAL STORE).
- Refer to the contact details provided with your product packaging.

Additional Resources

No official product videos were found in the provided data. Please check the product page on Amazon for any available video demonstrations or tutorials.

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