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› Preciva 852D++ 2-IN-1 Hot Air Rework Soldering Iron Station Kit User Manual

Preciva 852D++

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Model: **852D++** | Brand: **Preciva**

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation of your Preciva 852D++ 2-IN-1 Hot Air Rework Soldering Iron Station Kit. This versatile unit combines a 40W soldering iron and a 700W hot air gun, designed for soldering, desoldering, and SMD rework applications. Please read this manual thoroughly before use to ensure proper functionality and to prevent damage to the unit or injury to yourself.



Figure 1: Preciva 852D++ Main Unit and Accessories

This image displays the complete Preciva 852D++ kit, including the main control unit, hot air gun, soldering iron, various nozzles, soldering tips, soldering wire, desoldering pump, tweezers, and the adjustable stand.

2. SAFETY INFORMATION

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

- **Power Supply:** Ensure the power supply voltage matches the requirements specified on the unit (110 Volts).
- **Ventilation:** Use the station in a well-ventilated area to avoid inhaling fumes from soldering.
- **Hot Surfaces:** The soldering iron tip and hot air gun nozzle reach very high temperatures. Avoid direct contact with skin. Allow components to cool before handling.
- **Flammable Materials:** Keep flammable materials away from the working area.
- **Eye Protection:** Always wear safety glasses to protect your eyes from solder splashes or flying debris.
- **Grounding:** Ensure the unit is properly grounded.

- **Unplug When Not in Use:** Disconnect the power cord when the station is not in use or before performing maintenance.
- **Children and Pets:** Keep the unit out of reach of children and pets.

3. PRODUCT OVERVIEW AND COMPONENTS

The Preciva 852D++ is an integrated soldering and rework station. Familiarize yourself with its main components and included accessories.

3.1 Main Unit Features



Figure 2: Main Unit Controls and Indicators

This diagram labels the key parts of the control unit, including the air gun temperature display, soldering station temperature display, air gun handle, soldering iron handle interface, temperature adjustment knobs, indicator lights, wind volume adjustment knob, and power switches for both the soldering station and hot air gun.

1. Air gun temperature display window
2. Soldering station temperature display window
3. Air gun handle
4. Soldering iron handle interface
5. Soldering station temperature adjustment knob
6. Soldering station working indicator light
7. Wind volume adjustment knob
8. Blowing indicator light
9. Soldering station switch
10. Air gun switch
11. Air gun temperature adjustment knob
12. Air gun working indicator light

3.2 Included Components

The kit includes the following items:

- 1x Preciva 852D++ main solder station unit
- 1x Soldering iron holder
- 3x Nozzles (8mm, 10mm, 13mm)
- 1x Adjustable stand for hot air gun
- 5x Soldering iron tips (I/B/K/3.2D/3C)
- 1x Brass wool tip cleaner
- 1x Screwdriver
- 1x 30g lead-free soldering wire
- 1x Desoldering pump
- 1x Tweezers



Figure 3: Included Accessories

This image shows a selection of the accessories provided with the kit, including various soldering tips, hot air nozzles, soldering wire, desoldering pump, tweezers, and the soldering iron stand.

4. SETUP

Follow these steps to set up your soldering station:

1. **Unpacking:** Carefully remove all components from the packaging and inspect for any damage.
2. **Main Unit Placement:** Place the main unit on a stable, heat-resistant surface.

3. Hot Air Gun Stand Assembly:

- Install the three-hole metal plate onto the main unit using the provided screws.
 - Install the silver iron pipe into the metal plate.
 - Secure the iron pipe with the U-shaped clamp.
 - Install the silver iron ring onto the pipe.
 - Install the black adjustable hot air gun stand onto the silver iron pipe.
4. **Connect Hot Air Gun:** Plug the hot air gun cable into its designated port on the main unit.
5. **Connect Soldering Iron:** Plug the soldering iron cable into its designated port on the main unit.
6. **Soldering Iron Holder:** Place the soldering iron holder with the brass wool tip cleaner near the main unit for easy access.
7. **Power Connection:** Connect the power cord to the main unit and then to a grounded electrical outlet.

Wide Range Of Applications

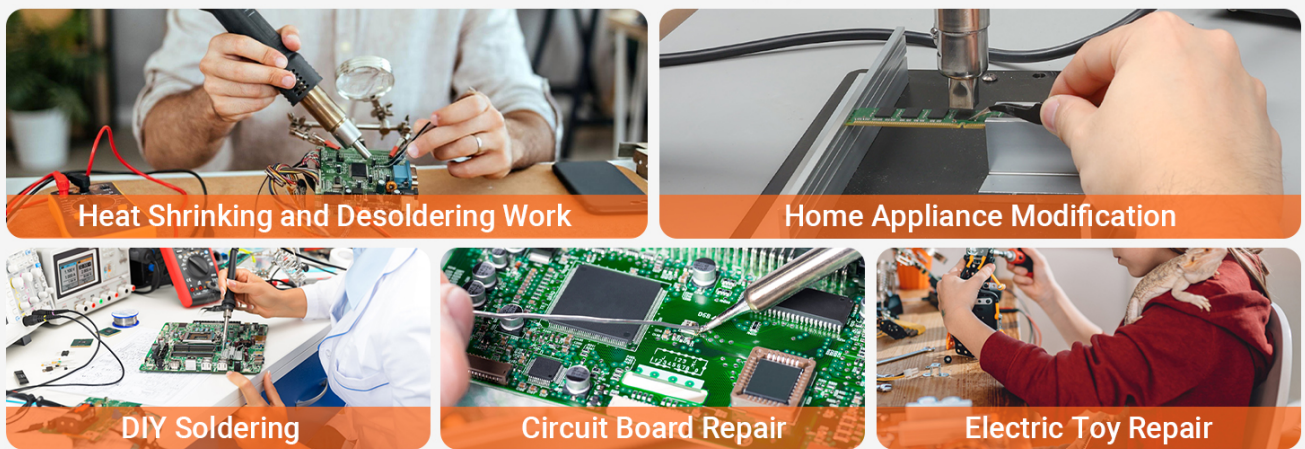


Figure 4: Hot Air Gun Stand Installation Steps

This image illustrates the six-step process for assembling the adjustable hot air gun stand onto the main unit, showing how to attach the metal plate, iron pipe, clamps, and the stand itself.

5. OPERATING INSTRUCTIONS

5.1 General Operation

- **Power On:** Flip the main power switch on the unit. The digital displays will illuminate.
- **Temperature Unit Conversion:** The unit supports both Celsius (°C) and Fahrenheit (°F). Refer to the manual for specific button combinations or settings to switch between units.
- **Calibration Function:** The unit features a calibration function for precise temperature control. Consult the full manual for detailed calibration procedures to ensure greater temperature precision.



Figure 5: Dual Digital Displays

This close-up image highlights the dual digital displays on the main unit, showing temperature readings for both the soldering iron and the hot air gun, enabling real-time monitoring.

5.2 Hot Air Gun Operation

The hot air gun offers both manual and automatic modes for various applications.

- **Power On/Off:** Use the "HOTAIR" switch to turn the hot air gun function on or off.
- **Temperature Adjustment:** Use the "HOTAIR" temperature knob to set the desired temperature (212-932°F / 100-500°C). The display will show the set temperature.
- **Air Volume Adjustment:** Use the "AIR" knob to adjust the airflow (up to 120L/min, 1-8 levels).
- **Manual Mode:** When the hot air gun is removed from its holder, it will maintain the set temperature and continuous airflow. This mode is suitable for continuous work.
- **Automatic Mode (Standby Mode):** When the hot air gun is placed back into its holder, the unit will automatically cool down and enter standby mode. This protects the heating element and extends the gun's lifespan.



Hot Air Gun

Manual And Automatic Mode



Manual Mode

Outside The Handle Bracket

- Maintains set temperature
- Continuous airflow



Automatic Mode

On The Handle Bracket

- Air supply only without heating
- Cool to 100°C
- Protect the air gun

Figure 6: Hot Air Gun Operating Modes

This image illustrates the two operating modes of the hot air gun: Manual Mode (continuous airflow when off the stand) and Automatic Mode (cooling down and standby when placed on the stand).

Manual Mode

Continuous airflow for uninterrupted operation



Figure 7: Manual Mode Operation

This image shows the hot air gun being used in manual mode, demonstrating continuous airflow for desoldering components from a circuit board.



Figure 8: Automatic Mode Activation

This image depicts the hot air gun placed back into its stand, activating the automatic mode where airflow continues without heating to cool down the unit.

5.3 Soldering Iron Operation

- **Power On/Off:** Use the "SOLDERING" switch to turn the soldering iron function on or off.
- **Temperature Adjustment:** Use the "SOLDERING STATION" temperature knob to set the desired temperature (212-932°F / 100-500°C). The display will show the set temperature.
- **Tip Selection:** Choose the appropriate soldering tip for your task from the included set (I/B/K/3.2D/3C).
- **Sleep Mode:** The soldering iron features a sleep mode to reduce wear and extend the lifespan of the soldering tip and heating element when not actively in use.

Soldering Station



- **Rapid Heating**
Reduces waiting time, enhances work efficiency
- **Intelligent Temperature Control**
Efficiently tracks and compensates for temperature

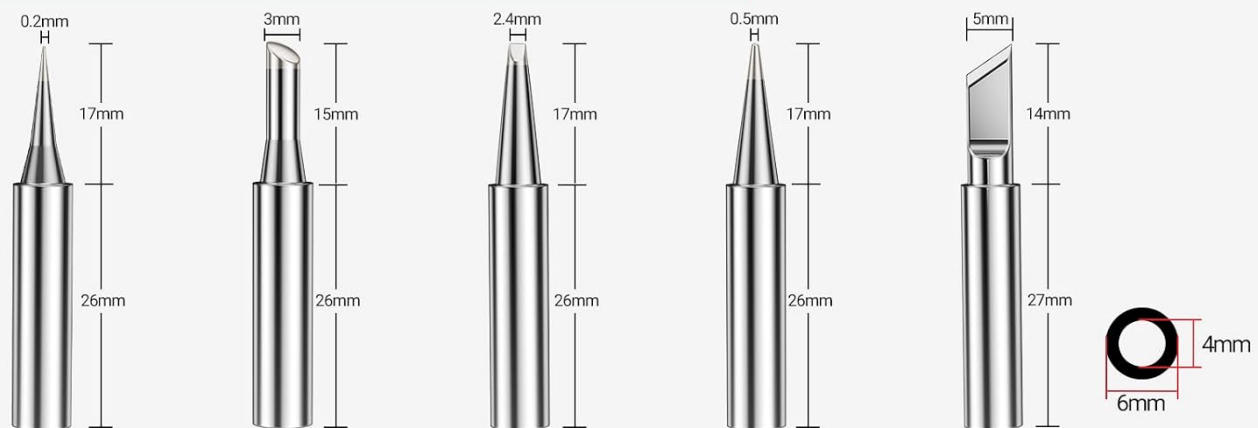


Figure 9: Soldering Iron Features and Tip Types

This image highlights the rapid heating and intelligent temperature control features of the soldering iron, along with a visual representation of the various soldering tip shapes and their dimensions.

6. MAINTENANCE

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

- **Soldering Tip Cleaning:** Regularly clean the soldering iron tip using the brass wool tip cleaner. For stubborn oxidation, use a tip tinner/cleaner.
- **Tinning Tips:** Always tin the soldering iron tip with a small amount of solder before storing it and after cleaning to prevent oxidation.
- **Nozzle Cleaning:** Ensure hot air gun nozzles are free from debris. Clean them gently when cool.
- **Unit Cleaning:** Wipe the main unit and handles with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the unit in a dry, dust-free environment when not in use.

7. TROUBLESHOOTING

If you encounter issues with your Preciva 852D++ station, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; loose power cord; faulty power switch.	Check power outlet; ensure power cord is securely plugged in; contact support if switch is faulty.
Soldering iron not heating up.	Soldering iron switch off; faulty heating element/tip; loose connection.	Ensure "SOLDERING" switch is ON; check connection; replace tip if necessary; contact support.
Hot air gun not blowing or heating.	Hot air gun switch off; blocked nozzle; faulty heating element/fan.	Ensure "HOTAIR" switch is ON; check for nozzle blockages; contact support.
Temperature display erratic or inaccurate.	Sensor issue; need for calibration.	Perform temperature calibration as per manual; contact support if issue persists.
Poor solder joint quality.	Incorrect temperature; dirty/oxidized tip; incorrect solder.	Adjust temperature; clean and tin tip; ensure correct solder type is used.

8. SPECIFICATIONS

Key technical specifications for the Preciva 852D++:

- **Model:** 852D++
- **Brand:** Preciva
- **Power Source:** AC
- **Voltage:** 110 Volts
- **Total Wattage:** 740 watts
- **Hot Air Gun Power:** 700W
- **Soldering Iron Power:** 40W
- **Temperature Range (Soldering Iron):** 212-932°F (100-500°C)
- **Temperature Range (Hot Air Gun):** 212-932°F (100-500°C)
- **Air Flow (Hot Air Gun):** ≤120L/min (Adjustable 1-8 levels)
- **Display Type:** Digital
- **Number of Channels:** 1
- **Material:** Metals
- **Color:** Black
- **Item Weight:** 6.74 pounds
- **Product Dimensions:** 12.4 x 8.46 x 8.46 inches
- **Country of Origin:** China

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Preciva customer service. Refer to the product packaging or the official Preciva website for the most current contact details.

Online Support: [Visit the Preciva Store on Amazon](#)