

BAKON CABK852MX

BAKON BK852MX C210 1000W Hot Air Rework Station Instruction Manual

Model: CABK852MX | Brand: BAKON

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your BAKON BK852MX C210 1000W Hot Air Rework Station. Please read this manual thoroughly before use and retain it for future reference. This station is designed for precise soldering and desoldering of SMD components, electronics repair, and other related tasks.

2. SAFETY INFORMATION

- **High Temperature Hazard:** The soldering iron tip and hot air gun nozzle reach very high temperatures. Avoid direct contact with skin or flammable materials.
- **Fume Inhalation:** Soldering produces fumes. Always work in a well-ventilated area or use a fume extractor.
- **Electrical Safety:** Ensure the power supply matches the station's requirements (110V). Do not operate with damaged cords or plugs. Disconnect power before maintenance.
- **Proper Handling:** Always place the hot air gun in its holder when not in use. The automatic cooling function will activate.
- **Children and Pets:** Keep the device out of reach of children and pets.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x Control Unit (Main Station)
- 1x Soldering Iron
- 1x Hot Air Rework Station (Gun)
- 1x Soldering Iron Stand & Sponge
- 2x Round Nozzles for Hot Air Gun
- 2x Integrated Heating Cartridges (Tips)
- 1x Anti-Static Tweezers
- 1x Desoldering Braid
- 1x Solder Paste
- 1x Solder Wire
- 1x Sleep Mode Trigger Cable

2-SECOND QUICK-CHANGE SYSTEM

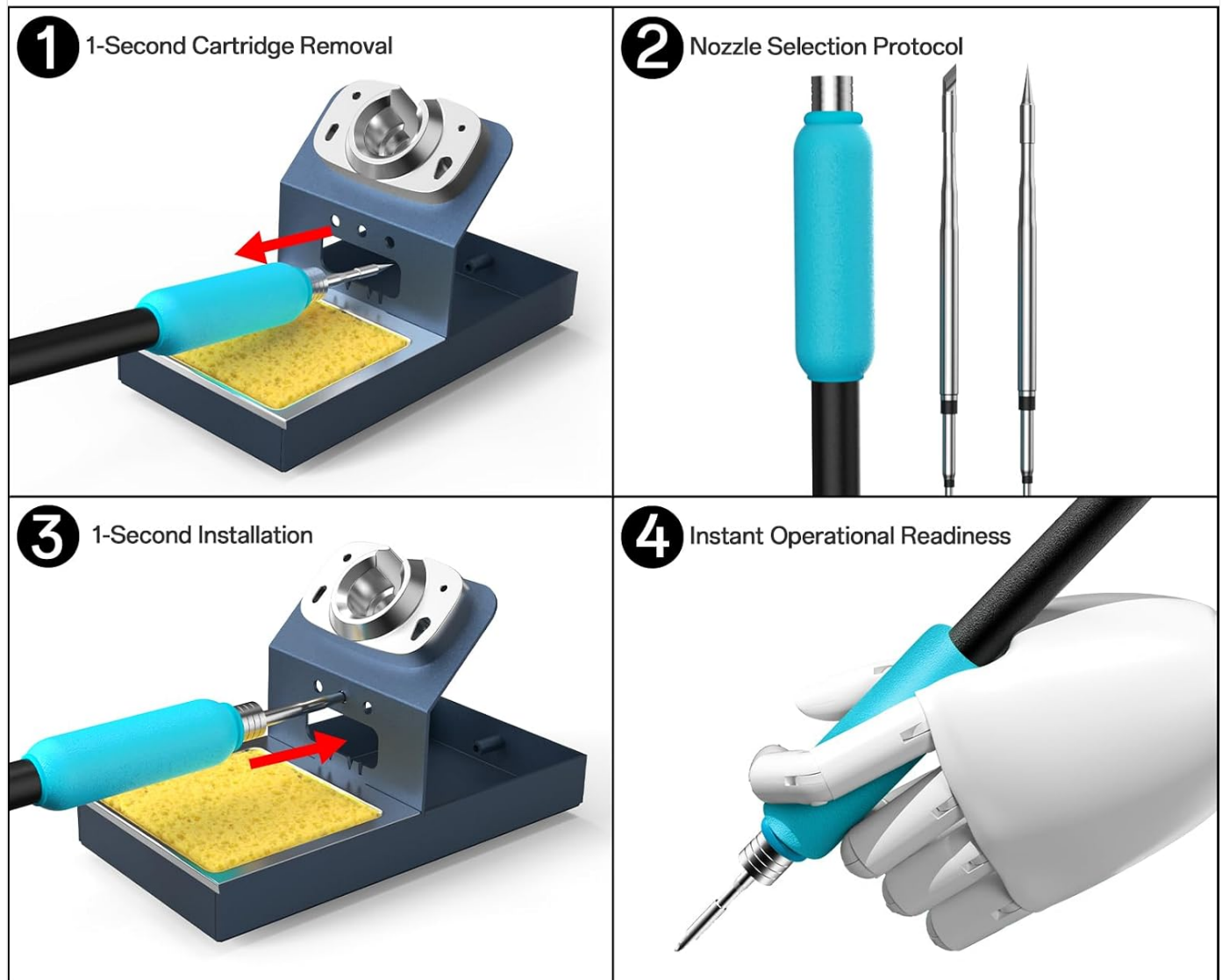


Figure 3.1: Included Components

The image above displays the complete set of items included with your BAKON BK852MX C210 1000W Hot Air Rework Station. This includes the main control unit, the soldering iron with its stand and cleaning sponge, the hot air gun, various nozzles and tips, and essential accessories like tweezers, desoldering braid, solder paste, and solder wire. A sleep mode trigger cable is also provided for enhanced safety and energy efficiency.

4. PRODUCT OVERVIEW

The BAKON BK852MX C210 is a dual-function rework station featuring a hot air gun and a soldering iron, each with independent controls and digital displays for precise temperature management.



Figure 4.1: BAKON BK852MX C210 Rework Station

This image shows the complete BAKON BK852MX C210 1000W Hot Air Rework Station setup. The central unit features dual LED displays for monitoring and adjusting temperatures for both the hot air gun and the soldering iron. The hot air gun is positioned on the left, and the soldering iron with its stand is on the right, accompanied by various soldering accessories.

DUAL SCREENS DOUBLE CONTROL

500°F
500°C

Heat Gun

Real-Time Temperature
Airflow Settings
Standby Settings
Temperature Calibration

480°F
480°C

Soldering Iron

Real-Time Temperature
Standby Settings
Temperature Calibration
Temperature Preset Switching



Figure 4.2: Dual Screens and Controls

The control panel features two distinct LED displays, one for the hot air gun (Rework) and one for the soldering iron (Soldering). Each section has its own ON/OFF switch and rotary knob for temperature adjustment. Shortcut buttons (CH1/2/3) allow for quick access to preset temperatures. A USB output (5V 3A) is also integrated.

5. SETUP

1. **Unpacking:** Carefully remove all components from the packaging.
2. **Placement:** Place the main control unit on a stable, heat-resistant surface. Ensure adequate ventilation around the

unit.

3. **Connect Hot Air Gun:** Connect the hot air gun cable to the designated port on the main unit. Place the hot air gun in its holder.
4. **Connect Soldering Iron:** Connect the soldering iron cable to its designated port. Place the soldering iron in its stand.
5. **Power Connection:** Connect the power cord to the main unit and then to a grounded 110V AC outlet.
6. **Sponge Preparation:** Dampen the cleaning sponge in the soldering iron stand with water (not soaking wet).

6. OPERATING INSTRUCTIONS

6.1. General Operation

- Turn on the main power switch located on the back of the unit.
- Use the individual ON/OFF switches on the front panel to activate the hot air gun or soldering iron as needed.
- The unit features dual LED displays for real-time temperature monitoring.

6.2. Hot Air Gun Operation

- **Temperature Adjustment:** Use the 'REWORK' rotary knob to set the desired temperature (range: 100°C-500°C / 212°F-932°F).
- **Airflow Adjustment:** The hot air gun features a pump-driven airflow system. Adjust the airflow using the dedicated control.
- **Nozzle Selection:** Choose an appropriate nozzle for your task. The station includes two round nozzles.
- **Automatic Cold Air Dormancy:** When the hot air gun is placed in its bracket, it automatically enters a cold air dormancy mode to cool down and save energy.

1000W HIGH POWER RAPID HEATING FOR

Solder & Desolder Sync | +50% Daily Output

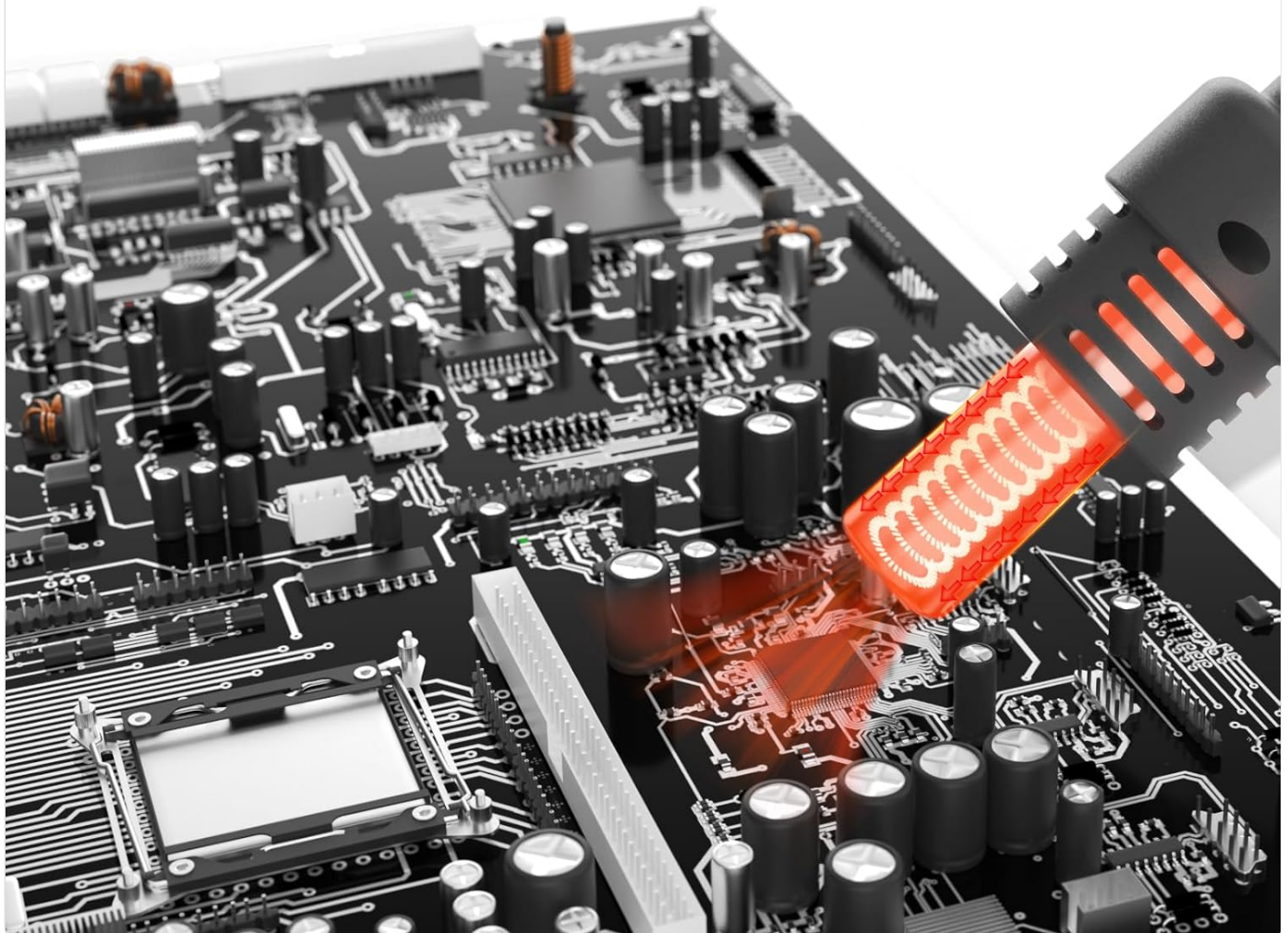


Figure 6.1: Hot Air Desoldering Application

This image illustrates the hot air gun in use for desoldering a BGA chip on a circuit board. The precise control of temperature and airflow allows for safe removal of surface-mount components without damaging the surrounding areas.

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Video 6.1: BAKON 1000W Soldering Station Overview (Seller Video)

This video provides an overview of a BAKON 1000W soldering station, demonstrating its features and general operation, including the hot air gun and soldering iron functions. It highlights the station's capabilities for various electronic repair tasks.

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Video 6.2: BK882 Soldering Rework Station Demonstration (Seller Video)

This video showcases the operation of a BK882 Soldering Rework Station, which shares similar functionalities with the BK852MX C210. It demonstrates the use of both the hot air gun for component removal and the soldering iron for precise connections.

6.3. Soldering Iron Operation

- **Temperature Adjustment:** Use the 'SOLDERING' rotary knob to set the desired temperature (range: 180°C-480°C / 356°F-896°F).
- **Tip Care:** Always tin the soldering iron tip before and after use to prevent oxidation. Clean the tip regularly with the damp sponge or brass wool.
- **Adaptive Heating Technology:** The soldering iron handle automatically adjusts to different heating cores for optimal performance.
- **Smart Sleep Mode:** When the soldering iron is placed in its stand, it automatically enters sleep mode after a set period, reducing power consumption and extending tip life.

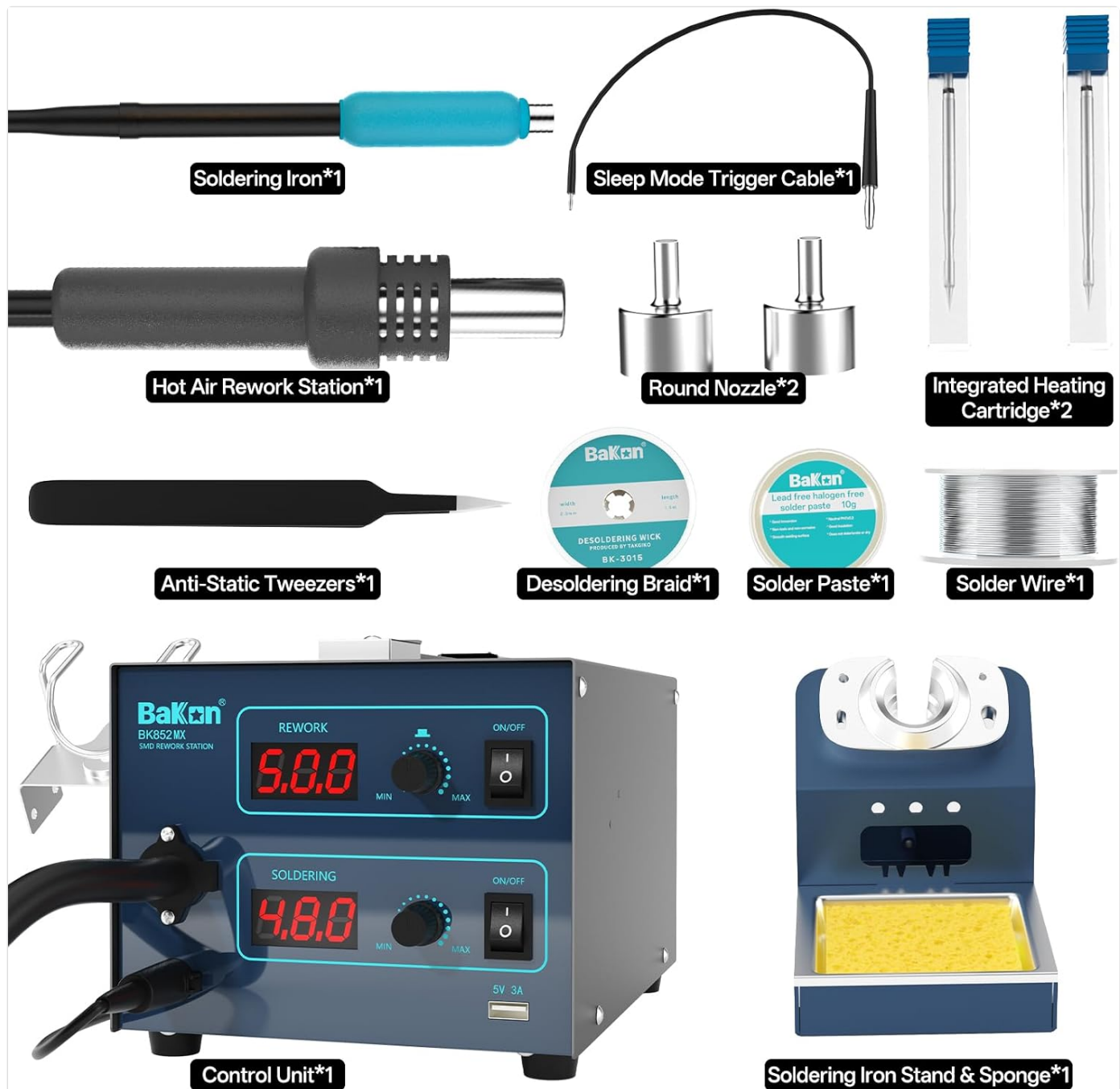


Figure 6.2: Quick-Change System for Soldering Tips

This image illustrates the quick-change system for soldering iron tips. It shows how easily the integrated heating cartridge (tip) can be removed and installed, allowing for rapid tip changes without waiting for the iron to cool down completely.

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Video 6.3: BK852d+ Rework Soldering Station Features (Seller Video)

This video highlights key features of the BK852d+ Rework Soldering Station, including its temperature control, sleep mode, and quick heating capabilities. While a different model, the operational principles for soldering and hot air functions are similar to the BK852MX C210.

6.4. Temperature Unit Switching

- The station supports both Celsius (°C) and Fahrenheit (°F) display. Refer to the unit's specific button or menu option to toggle between these units.

7. MAINTENANCE

- **Cleaning:** Regularly clean the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Soldering Tip Maintenance:** Keep soldering tips clean and tinned. Replace tips when they become excessively worn or corroded.
- **Hot Air Nozzle Cleaning:** Ensure hot air nozzles are free from debris or solder splatter to maintain optimal airflow.
- **Filter Cleaning:** Check and clean any air filters if applicable, to ensure proper airflow for the hot air gun.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cord disconnected, main switch off, fuse blown	Check power connections, turn on main switch, replace fuse if necessary.
Soldering iron not heating	Iron not connected, temperature set too low, heating element failure	Check connection, increase temperature, replace heating cartridge.
Hot air gun no airflow/heat	Gun not connected, temperature/airflow set too low, pump/heating element failure	Check connection, increase settings, contact support if issue persists.
Inaccurate temperature reading	Sensor issue, calibration needed	Perform temperature calibration (refer to advanced settings), contact support.

9. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Main Machine Output Power	1000W
Input Voltage	AC 110V 60Hz
Dimensions (L x W x H)	30.99 x 26.67 x 17.91 cm
Item Weight	4.22 kg
Operating Environment Temp.	10-45°C
Operating Environment Humidity	45-80%RH
Hot Air Gun (De-soldering Station)	
Max Output Power	860W
Temperature Range	100°C-500°C (212°F-932°F)
Air Flow Type	Air pump
Air Pump Volume	28L/min
Temperature Stability	±3°C
Cord Length of Handle	100cm
Soldering Iron (Soldering Station)	
Max Output Power	C210/60W
USB Output	5V 3A
Temperature Range	180°C-480°C (356°F-896°F)
Temperature Stability	±2°C
Tip to Ground Resistance	≤2Ω
Tip to Ground Voltage	≤2mV
Cord Length of Handle	110cm

10. WARRANTY AND SUPPORT

The BAKON BK852MX C210 Desoldering Station includes:

- **1-Year Warranty:** Covers manufacturing defects and malfunctions under normal use.
- **30-Day Return or Exchange Policy:** For customer satisfaction.
- **24/7 Customer Support:** Available for assistance with any product-related inquiries or issues.

For support, please refer to the contact information provided with your purchase or visit the official BAKON website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question