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› VECHELT 2 DIN Autoradio with Wireless CarPlay Android Auto - User Manual

VECHTEL B0FNBZH4FQ

VECHTEL 2 DIN Autoradio with Wireless CarPlay Android Auto - User Manual

Model: B0FNBZH4FQ

1. INTRODUCTION

Thank you for choosing the VECHELT 2 DIN Autoradio. This device integrates advanced features such as wireless CarPlay, Android Auto, a 7-inch IPS touchscreen, Bluetooth connectivity, FM radio, and support for a reversing camera to enhance your driving experience. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and longevity of your product.

2. PACKAGE CONTENTS

Please check the package for the following items:

- 1 x VECHELT 2 DIN Autoradio
- 1 x Reversing Camera
- 1 x Power Cable
- 1 x Horn Cable
- 1 x Microphone
- 1 x Remote Control
- 1 x User Manual

3. PRODUCT OVERVIEW

Familiarize yourself with the main components and interface of your autoradio.

Interface Description



USB Charge



Figure 3.1: Interface Description. This image shows the front panel of the VECHEL Autoradio, highlighting key controls and ports. From top to bottom on the left side, it indicates the IR receiver, MIC, BT (Bluetooth) button, Next Song button, Volume +/- buttons (also power on/off), SD card slot, RES (Reset) button, and AUX input. Below the screen, there are USB ports. The screen displays time, date, and icons for Radio, Bluetooth, USB, SD, and PhoneLink functions.

Front Panel Controls:

- **IR Receiver:** For remote control signals.
- **MIC:** Built-in microphone for hands-free calls.
- **BT Button:** Activates Bluetooth functions.
- **Next Song Button:** Skips to the next track.

- **Volume +/-:** Adjusts audio volume. Long press to power on/off.
- **SD Card Slot:** Insert SD cards for media playback.
- **RES (Reset) Button:** Resets the unit to factory settings (use a thin object to press).
- **AUX Input:** Connect external audio devices.
- **USB Ports:** For media playback, smartphone connection, and charging.

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of your autoradio. It is recommended to have this unit installed by a professional.

4.1. Installation Dimensions

Ensure your vehicle's dashboard opening matches the standard 2 DIN dimensions:

- **Standard Dimensions:** 177 mm (L) x 102 mm (H) x 65 mm (D)

Product Wiring

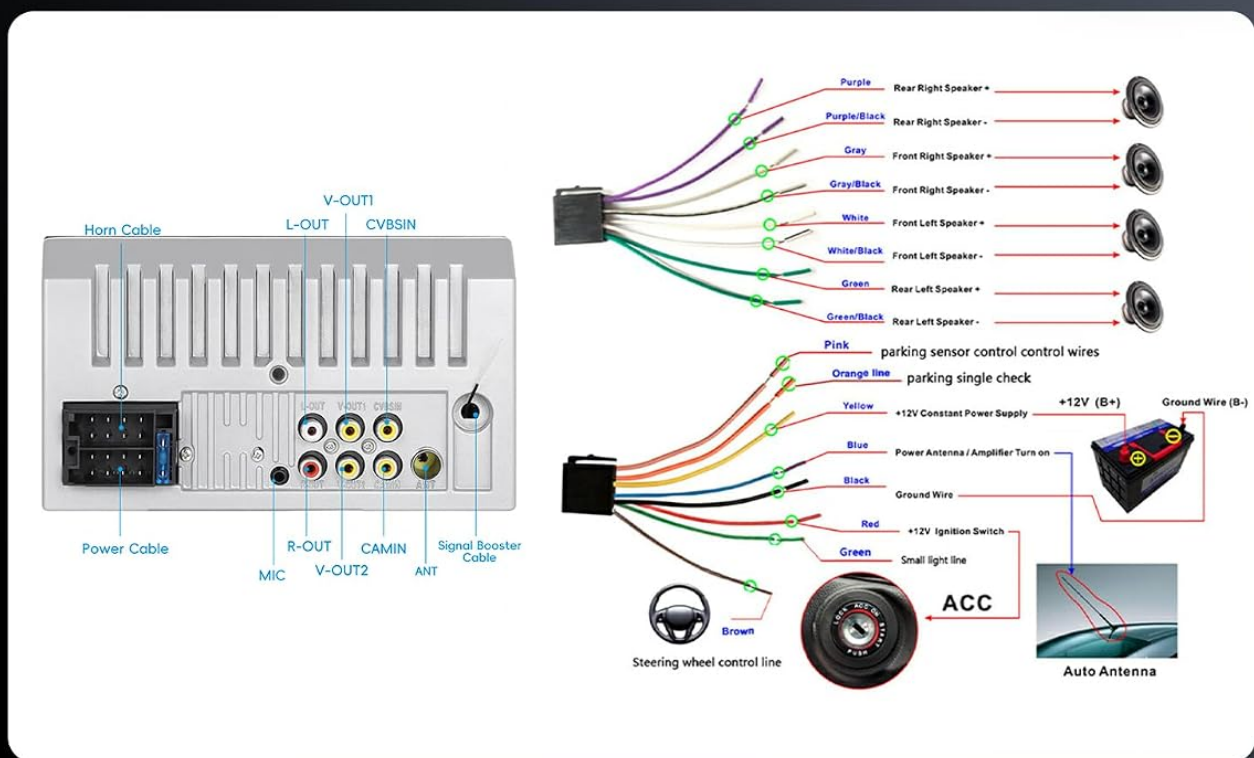


Figure 4.1: Product Wiring. This diagram illustrates the wiring connections for the VECHEL Autoradio. It shows the rear panel with V-OUT, L-OUT, R-OUT, CAMIN, ANT, MIC, and Power Cable connections. The main wiring harness includes connections for speakers (Purple, Purple/Black, Gray, Gray/Black, White, White/Black, Green, Green/Black), parking sensor control, reverse light trigger (Pink), +12V constant power (Yellow), power antenna/amplifier turn-on (Blue), ground (Black), +12V ignition (Red), small light line (Orange), and steering wheel control line (Brown). An auto antenna connection is also shown.

4.2. Wiring Instructions

Refer to Figure 4.1 for detailed wiring connections. Ensure all connections are secure and correctly matched to prevent damage to the unit or vehicle electrical system.

1. Power Connections:

- **Yellow Wire (+12V Constant Power):** Connect to a constant +12V power source.
- **Red Wire (+12V Ignition ACC):** Connect to the vehicle's ignition switch, which provides +12V when the ignition is on.
- **Black Wire (Ground):** Connect to a good chassis ground point in the vehicle.

2. **Speaker Connections:** Connect the speaker wires (Purple, Gray, White, Green) to your vehicle's speakers. Ensure correct polarity (+/-) for each speaker.

3. **Antenna Connection:** Connect the auto antenna cable.

4. **Reverse Camera Input (CAMIN):** Connect the video output of the reversing camera to this input. The Pink wire should be connected to the reverse light trigger for automatic display.

5. **Steering Wheel Control (SWC):** Connect the Brown wire to your vehicle's steering wheel control interface (if applicable).

6. Other Connections:

- **V-OUT (Video Output):** For connecting external monitors.
- **L-OUT/R-OUT (Audio Output):** For connecting external amplifiers.
- **MIC:** External microphone input.

Warning: Incorrect wiring can cause damage to the unit or vehicle. Consult a professional if you are unsure about any connections.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off and Basic Navigation

- **Power On:** Turn the vehicle ignition to ACC or ON. The unit will power on automatically. Alternatively, long-press the Volume knob.
- **Power Off:** Long-press the Volume knob.
- **Home Screen:** From any function, tap the "Home" icon to return to the main menu.
- **Volume Adjustment:** Rotate the Volume knob or use the remote control.

5.2. Wireless CarPlay and Android Auto

This autoradio supports wireless CarPlay for iOS devices and Android Auto for Android devices, allowing seamless integration of your smartphone's features.

Wireless Carplay & Android Auto



Figure 5.1: Wireless CarPlay and Android Auto. This image displays the autoradio screen showing both CarPlay and Android Auto interfaces. The CarPlay screen shows icons for Phone, Spotify, Maps, Messages, Now Playing, SmartScreen, Podcasts, News, Audiobooks, and Calendar. The Android Auto screen shows a similar layout with navigation and media apps. Both interfaces demonstrate voice command integration (e.g., "Hey Siri, open the map", "OK, Open Music", "OK, Open Navigation").

1. **Enable Bluetooth and Wi-Fi:** On your smartphone, ensure both Bluetooth and Wi-Fi are enabled.
2. **Pair Device:** On the autoradio, go to the "PhoneLink" or "CarPlay/Android Auto" section. Search for your phone via Bluetooth and pair them.
3. **Automatic Connection:** Once paired, the unit should automatically connect to CarPlay or Android Auto when you start the car.

4. **Functions:** Access navigation, music, calls, messages, and voice assistants (Siri/Google Assistant) directly from the autoradio screen.

5.3. Mirror Link / Same Screen Function

Mirror Link allows you to display your smartphone's screen directly onto the autoradio's display.



Figure 5.2: Mirror Link. This image, part of the larger "Wireless CarPlay and Android Auto" graphic, also illustrates the Mirror Link feature. It shows a smartphone screen being mirrored onto the larger autoradio display, demonstrating how content like videos or navigation can be shared from the phone to the car screen.

1. **Connect Smartphone:** Connect your smartphone to the autoradio using a USB cable (for Android) or wirelessly (for iOS, often via Wi-Fi after initial Bluetooth pairing).
2. **Activate Mirror Link:** Select the "PhoneLink" or "Mirror Link" option on the autoradio.
3. **Follow On-Screen Prompts:** Your phone may require permission or specific app installation for Mirror Link to function.

5.4. Bluetooth Connectivity

Connect your smartphone via Bluetooth for hands-free calling and audio streaming.

Bluetooth

Where are you now?

I'm driving.

Reversing Camera

Night Vision

IP68 Waterproof

HD Image

Wide Angle

Steering Wheel Controls

Volume-

HangUP

Answer

Next

Last

Volume+

Figure 5.3: Bluetooth Functions. This image shows the Bluetooth interface on the autoradio screen, displaying a dial pad for making calls, a contact list, and music playback controls. It also illustrates a phone call in progress with a message bubble "I'm driving."

1. **Enable Bluetooth:** On the autoradio, tap the "Bluetooth" icon. Ensure Bluetooth is enabled on your phone.
2. **Pairing:** Search for the autoradio's Bluetooth name (e.g., "VECHTEL Car BT") on your phone and pair. Enter the PIN (usually "0000") if prompted.
3. **Hands-Free Calling:** Use the dial pad, contact list, or call history on the autoradio screen to make and receive calls.
4. **Audio Streaming:** Play music from your phone, and the audio will stream through the car speakers.

5.5. FM Radio

Enjoy your favorite radio stations with clear audio quality.



Figure 5.4: FM Radio. This image displays the FM radio interface of the autoradio. It shows the frequency tuner (e.g., 87.50 MHz), preset station buttons (FM1, FM2, FM3), and controls for tuning, scanning, and saving stations. The background shows various driving scenarios, implying the use of radio during commutes.

1. **Access Radio:** Tap the "Radio" icon on the home screen.
2. **Frequency Tuning:** Use the on-screen controls to manually tune or automatically scan for stations.
3. **Preset Stations:** Save your favorite stations to the preset buttons (FM1, FM2, FM3).

5.6. EQ Adjust (Equalizer)

Customize your audio experience with the built-in equalizer.



Figure 5.5: EQ Adjust. This image, part of the larger "FM Radio" graphic, also shows the Equalizer (EQ) adjustment interface. It features a graphic equalizer with multiple frequency bands that can be adjusted. Preset options like Pop, Classic, Rock, and Jazz are visible, allowing users to quickly select different sound profiles.

1. **Access EQ:** Tap the "EQ" icon or navigate to the sound settings.
2. **Adjust Settings:** Use the graphic equalizer to fine-tune frequency bands or select from preset sound modes (e.g., Pop, Rock, Classic, Jazz).

5.7. Reversing Camera

Enhance parking safety with the included HD reversing camera.



Figure 5.6: Reversing Camera. This image, part of the larger "Bluetooth" graphic, illustrates the reversing camera functionality. It shows the autoradio screen displaying a wide-angle view from the rear of the vehicle with parking guidelines. Key features like Night Vision, IP68 Waterproof rating, and HD Image quality are highlighted.

1. **Automatic Display:** When the vehicle is shifted into reverse gear, the autoradio will automatically display the rear view from the connected camera.
2. **Features:** The camera provides an HD image, wide-angle view, and night vision for improved visibility in various

conditions.

5.8. Steering Wheel Controls

Control basic functions of the autoradio directly from your steering wheel (if your vehicle supports it and is wired correctly).



Figure 5.7: Steering Wheel Controls. This image, part of the larger "Bluetooth" graphic, shows a steering wheel with control buttons and the autoradio screen displaying a "Steering Wheel Controls" setup menu. This menu allows users to map functions like Volume Up/Down, Hang Up, Answer, Next, and Last to their steering wheel buttons.

1. **Configuration:** Access the "Steering Wheel Controls" settings menu on the autoradio.

2. **Mapping Buttons:** Follow the on-screen instructions to map your steering wheel buttons to desired functions (e.g., volume, track skip, answer/end call).

5.9. USB Charge

Use the USB ports to charge your mobile devices.



Figure 5.8: USB Charge. This image, part of the larger "Interface Description" graphic, shows a smartphone connected to one of the autoradio's USB ports and displaying a charging indicator (85.5% charged). This demonstrates the unit's capability to charge external devices.

Connect your smartphone or other USB-powered devices to the USB port on the front panel for charging.

5.10. 7-Inch IPS Touch Screen

The high-definition IPS touchscreen provides a clear and responsive interface for all functions.

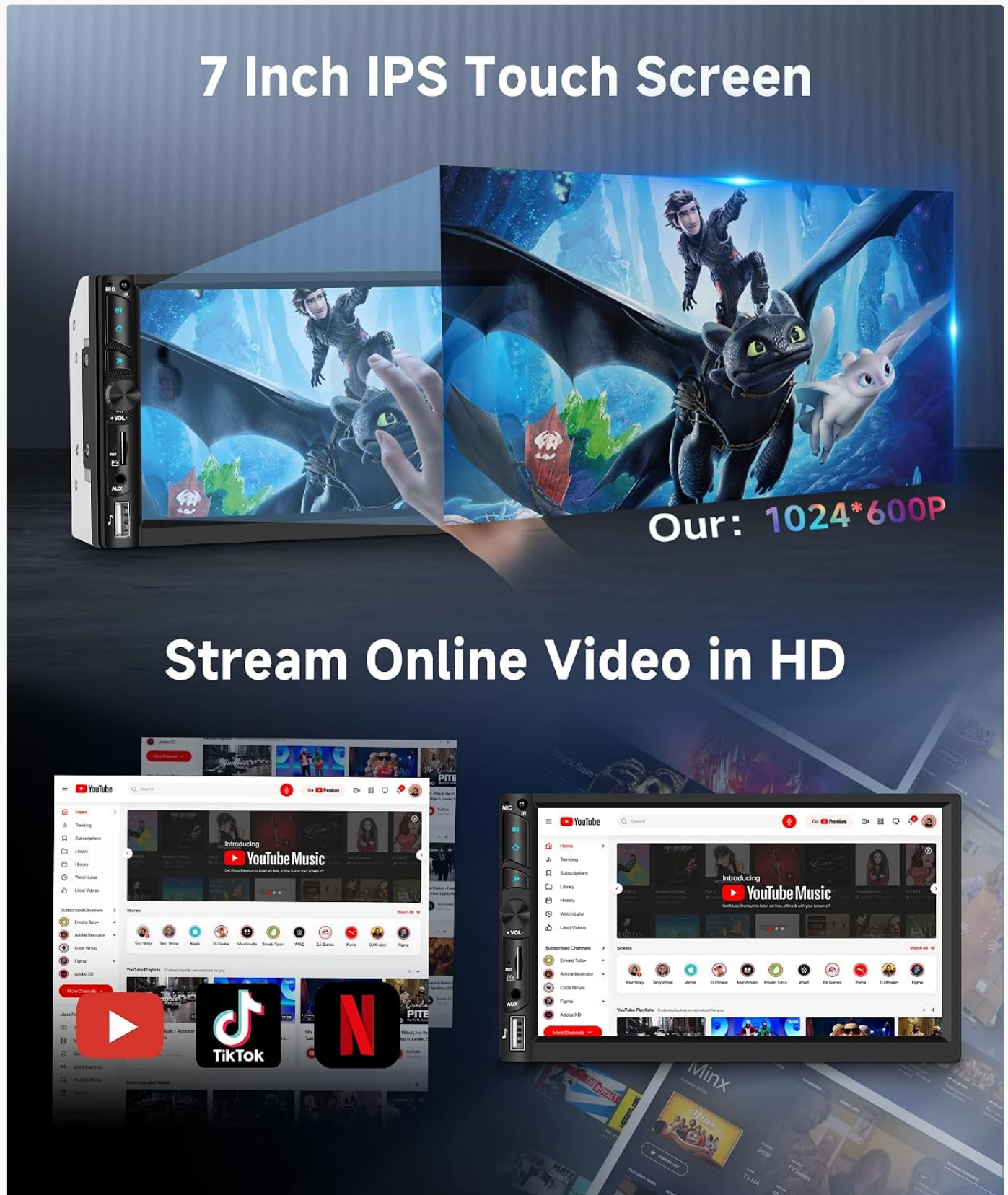


Figure 5.9: 7-Inch IPS Touch Screen. This image highlights the 7-inch IPS HD touchscreen with a resolution of 1024x600. It shows the screen displaying high-definition video content, emphasizing its clarity and vibrant colors. Below, it also shows the ability to stream online video from platforms like YouTube and TikTok.

- **Resolution:** 1024 x 600 pixels for clear visuals.
- **Touch Control:** Navigate menus and control functions by tapping and swiping on the screen.

- **Media Playback:** Supports various video formats for streaming online content or playing from USB/SD.

6. MAINTENANCE

To ensure the longevity and optimal performance of your autoradio, follow these maintenance guidelines:

- **Cleaning the Screen:** Use a soft, lint-free cloth to gently wipe the touchscreen. Do not use abrasive cleaners or solvents, as they may damage the screen.
- **General Cleaning:** Wipe the unit's exterior with a soft, dry cloth. Avoid getting liquids inside the unit.
- **Temperature:** Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or high humidity.
- **Firmware Updates:** Periodically check the VECHEL website or contact support for any available firmware updates to improve performance and add new features.

7. TROUBLESHOOTING

If you encounter issues with your autoradio, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on.	Incorrect power wiring; blown fuse; vehicle ignition off.	Check power cable connections (Yellow, Red, Black). Verify vehicle ignition is on. Check vehicle's fuse box and the unit's fuse.
No sound.	Volume too low; incorrect speaker wiring; mute function active.	Increase volume. Check speaker connections. Ensure unit is not muted.
Bluetooth connection unstable.	Interference; phone too far; incorrect pairing.	Ensure phone is close to the unit. Re-pair the Bluetooth connection. Disable other Bluetooth devices.
CarPlay/Android Auto not connecting.	Wi-Fi/Bluetooth off on phone; incorrect pairing; phone software issue.	Ensure Wi-Fi and Bluetooth are active on your phone. Re-pair the device. Restart your phone and the autoradio.
Reversing camera not displaying.	Camera not connected; reverse trigger wire not connected; faulty camera.	Check camera video input and reverse trigger wire connection (Pink wire). Test the camera.
Touchscreen unresponsive.	System freeze; dirt on screen.	Press the RES (Reset) button with a thin object. Clean the screen.

If the problem persists after trying these solutions, please contact VECHEL customer support.

8. SPECIFICATIONS

Feature	Detail
Model Number	B0FNBZH4FQ
Screen Type	7-inch IPS HD Touchscreen

Feature	Detail
Screen Resolution	1024 x 600
System	8268K
Voltage	12 V
Max Output Power	4 x 45 W (180 Watts total)
Radio Band	FM (87.5-108 MHz)
Connectivity	Bluetooth, USB, TF Card, AUX
Wireless Features	Wireless CarPlay, Android Auto, Mirror Link
Audio Formats	MP3/AAC/OGG/FLAC/APE
Video Formats	AVI/3GP/MP4/MOV/MPG/MKV/VOB/RMVB/RM
Control Method	Touchscreen, Remote Control, Steering Wheel Controls
Dimensions (L x H x D)	17.7 cm x 10.5 cm x 6.5 cm
Compatible Devices	Smartphone

9. WARRANTY AND SUPPORT

VECHTEL is committed to providing high-quality products and customer satisfaction. For any compatibility, installation, or usage issues, please do not hesitate to contact our professional support team.

- **Technical Support:** VECHTEL specializes in automotive electronics and offers professional assistance.
- **Contact Information:** Please refer to the contact details provided with your purchase or on the official VECHTEL website for support.
- **Return Policy:** This product typically comes with a 30-day refund/replacement return policy. Please check your purchase details for specific terms.

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