

BAFANG M315 MM G340.750.C

BAFANG 750W Mid Drive Kit User Manual

Model: M315 MM G340.750.C

Brand: BAFANG

1. INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your BAFANG 750W Mid Drive Ebike Conversion Kit. Please read this manual thoroughly before attempting installation or operation to ensure safe and efficient use of the product.

The BAFANG 750W Mid Drive Kit (BBS02B 48V750W) is designed to convert standard bicycles into electric bikes, offering enhanced power and versatility for various riding conditions.

2. PRODUCT FEATURES

- **Powerful Ebike Motor:** The BAFANG 750W motor delivers a maximum torque of 120 N.m, providing robust assistance for climbing and steep grades. It enables a top speed of up to 45 KM/H (28 mph).
- **Compatibility:** Compatible with 68-73mm (length) and 33.5-36mm (internal diameter) JIS standard bottom brackets. Suitable for various bike types including MTB, city, and commuter bikes. Not recommended for bikes with coaster brakes or belt drives.
- **Easy Installation:** Designed for straightforward conversion of your bicycle into an electric bike. Numerous online video resources are available to assist with the installation process.
- **Complete Accessories:** The kit includes necessary components such as the Bafang 750W Mid Drive Kit, LCD ebike display, Bafang chainring, bottom bracket removal tool, wrench, and headlight. Optional components like different chainrings, displays, brakes, and batteries are available.
- **Four Riding Modes:** Offers versatile riding experiences with Ebike mode (Throttle), Pedal Assist mode, Walk Assist mode, and Normal Bike mode.

3. PACKAGE CONTENTS

The BAFANG 750W Mid Drive Kit typically includes the following components:

- BAFANG 750W Mid Drive Motor (BBS02B)
- LCD Display (various models available, e.g., SW2-M58, DZ40, DM03, 500C, EKD01, P860ML, C18-B, 800S)
- Chainring (e.g., 42T, with optional sizes 36T, 44T, 46T, 52T)
- Crank Arms
- Speed Sensor
- Thumb Throttle
- Brake Levers (or Brake Sensors, if requested)
- Installation Screws and Nuts
- Cable Ties
- BBS Wrench
- Centre Shaft Removal Tool
- Headlight (Gift)
- Installation Manual
- Optional Battery (various types like Downtube Shark Battery, Rear Rack Battery, Max Shark Battery)

BAFANG MID DRIVE KIT



40-50 KM/H
Top Speed



100-160 N.M
Max Torque



≥78%
Efficiency



LITHIUM BATTERY



Durable
Ebike Battery



BAFANG BRAKE LEVER



Significantly improves
safety performance.



MULTIFUNCTIONAL DISPLAY



Multiple display options



Figure 3.2: Wiring diagram for the BAFANG mid-drive kit, illustrating connections between motor, battery, and other accessories.

4. COMPATIBILITY AND PRE-INSTALLATION CHECK

Before installation, ensure your bicycle frame is compatible with the BAFANG mid-drive kit. The kit is designed for bicycles with a bottom bracket length of 68-73mm and an internal diameter of 33.5-36mm (JIS standard).

- Measure your bike's bottom bracket inner diameter (should be between 33.5-36mm).
- Measure your bike's bottom bracket length (should be between 68-73mm).
- Ensure the chosen chainring size will not interfere with your bike's chain stay.
- The kit is not recommended for bikes equipped with coaster brakes or belt drives.

HOW DO I KNOW IF THIS MOTOR KIT FIT MY BIKE OR NOT?



Belt Drive Chainring



Coaster Bike

1

Inner Diameter:
Between 33.5-36MM



2

Bottom Bracket Length:
68-73MM



3

Make sure the sprocket will not
hit chain stay of your bike

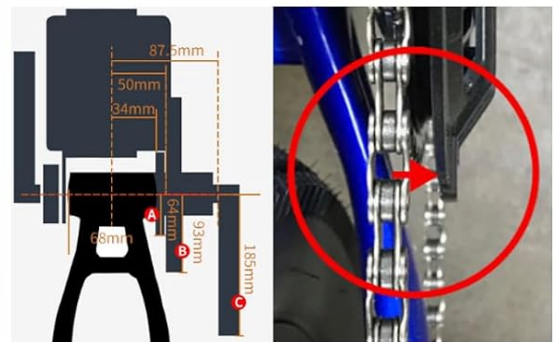


Figure 4.1: Compatibility check for the BAFANG mid-drive motor, including bottom bracket measurements and examples of incompatible bike setups (belt drive, coaster brake).

MAX SHARK BATTERY

52V 20AH

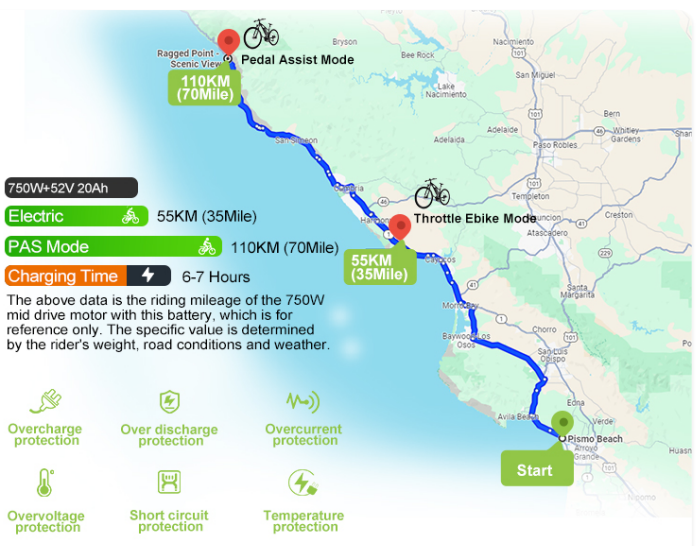
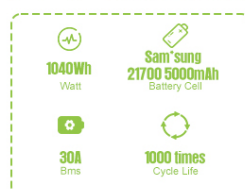


Figure 4.2: Detailed steps for checking motor compatibility with your bike's bottom bracket using a measurement tool.

OPTIONAL SPROCKET(CHAINWHEEL)



Figure 4.3: Instructions for verifying if a downtube shark battery will fit your bike frame using a provided size guide template.

BRAKE LEVER OR BRAKE SENSOR?

If your bike can't use the default brake lever, please contact us, so we can send the brake sensor to you

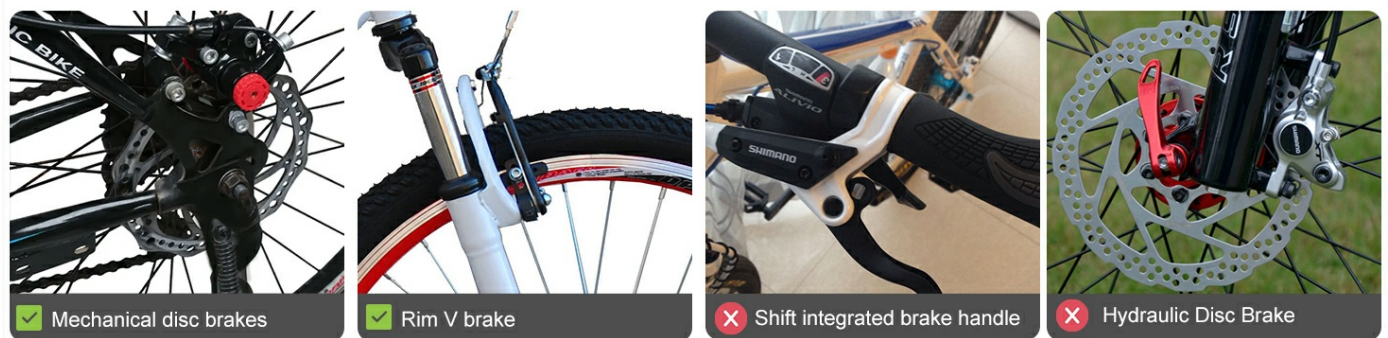


Figure 4.4: Steps to determine if a rear rack battery is suitable for your bike, checking for installation screw holes and rear fork dimensions.

PACKING LIST



Figure 4.5: Visual examples of bike configurations that are not compatible with the BAFANG BBS motor.

5. INSTALLATION GUIDE

While this manual provides general guidance, detailed installation instructions are best supplemented by visual aids. Many helpful video tutorials are available online (e.g., YouTube) demonstrating the installation process for the BAFANG mid-drive kit.

5.1. General Steps (Refer to detailed video guides for specifics):

1. Remove existing crankset and bottom bracket.
2. Install the BAFANG mid-drive motor into the bottom bracket shell.
3. Secure the motor with the provided lock nuts and tools.
4. Install the chainring and crank arms.
5. Mount the display, throttle, and brake levers/sensors on the handlebars.
6. Install the speed sensor on the rear wheel.
7. Connect all wiring harnesses to the motor and components. Ensure waterproof connections are properly sealed.
8. Mount the battery securely to the bike frame (if purchased separately).
9. Perform initial function tests before riding.

BATTERY SPECIFICATION

48V 13Ah 48V 17.5Ah		48V 19.2Ah	
Battery Model	Shark Battery 48V 13Ah	Shark Battery 48V 17.5Ah	Shark Battery 48V 17.5Ah
Battery Cell	18650 2600mAh	L*/G 18650 3500mAh	18650 3500mAh
BMS Max Protection Current	30A	30A	30A
USB Port	✓	✓	✓
Weight	4.25kg	4.045kg	4kg
Cycle Life	1000 times	1000 times	1000 times
Battery Charger	✓	✓	✓
G70 Shark Battery 48V 19.2Ah			
Battery Cell	Sam*/sung 21700 4800mah		
BMS Max Protection Current	30A		
USB Port	✗		
Weight	4.8kg		
Cycle Life	1000 times		
Battery Charger	✓		
48V 20Ah		52V 20Ah	
Battery Model	G80 Shark Battery 48V 20Ah	YingWu Battery 52V 20Ah	YingWu Battery 52V 20Ah
Battery Cell	L*/G 21700 5000mAh	Sam*/sung 21700 5000mAh	Sam*/sung 21700 5000mAh
BMS Max Protection Current	30A	30A	30A
USB Port	✓	✗	✗
Weight	4.7kg	5kg	5kg
Cycle Life	1000 times	1000 times	1000 times
Battery Charger	✓	✓	✓
48V 17.5Ah		48V 17.5Ah	
Battery Model	Rear Rack Battery 48V 17.5Ah	Rear Rack Battery 52V 17.5Ah	Rear Rack Battery 52V 17.5Ah
Battery Cell	18650 2600mAh	18650 2500mAh	18650 2500mAh
BMS Max Protection Current	30A	30A	30A
USB Port	✓	✓	✓
Weight	6kg	6.3kg	6.3kg
Cycle Life	1000 times	1000 times	1000 times
Battery Charger	✓	✓	✓

Figure 5.1: BAFANG mid-drive motor seamlessly integrated into a bicycle frame.



Figure 5.2: E-bike in use, showcasing the installed BAFANG mid-drive kit.

WHY CHOOSE BAFANG MID DRIVE MOTOR?



 Balanced Weight mid drive motor lowers bike's center of gravity, enhancing stability and control.	 Higher Torque Superior torque conquers steep slopes and heavy loads, ideal for off-road/cargo.
 Easy Maintenance Wheel-independent design simplifies tire changes and maintenance routines.	 Natural Aesthetics Discreet integration preserves classic bike aesthetics for seamless retrofitting.

 Low efficiency, wasting energy.
 High noise during operation.
 Short lifespan compared to mid drive motor.

 Heavy design, reduces mobility.
 Requires frequent maintenance.

Figure 5.3: IP65 waterproof wiring design ensures durability and safety.

6. OPERATING INSTRUCTIONS

6.1. Display Functions

The LCD display provides crucial information and allows control over the ebike system. Features may vary slightly depending on the specific display model (e.g., EKD01, DPC010.CB, DPC080.C, VD03, VD618, P860ML).

- **Real-time Speed:** Displays current riding speed.
- **Battery Power:** Shows remaining battery charge.
- **PAS Level:** Indicates the current pedal assist level (e.g., 0-9 levels).
- **Trip Distance:** Records distance for current ride.
- **Total Mileage:** Accumulates total distance traveled.
- **Ride Time:** Tracks duration of current ride.
- **Error Code:** Displays diagnostic codes if an issue occurs.
- **Headlight Indicator:** Shows if the headlight is on.
- **Brake Indicator:** Indicates when brakes are applied.
- **USB Charging Port:** Some models (e.g., EKD01) include a USB port for charging external devices.
- **Automatic Light Sensor:** Some models activate headlights automatically in dark environments.

POWERFUL MOTOR



Torque>
100N.m



Max Speed
45KM/H



Waterproof
IP65



BBS:4.24kg
BBSHD:6kg

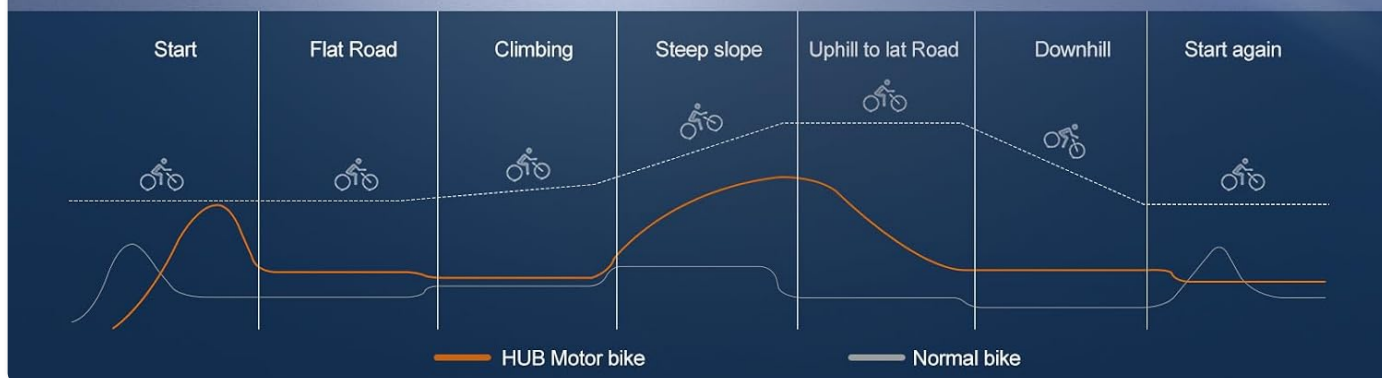
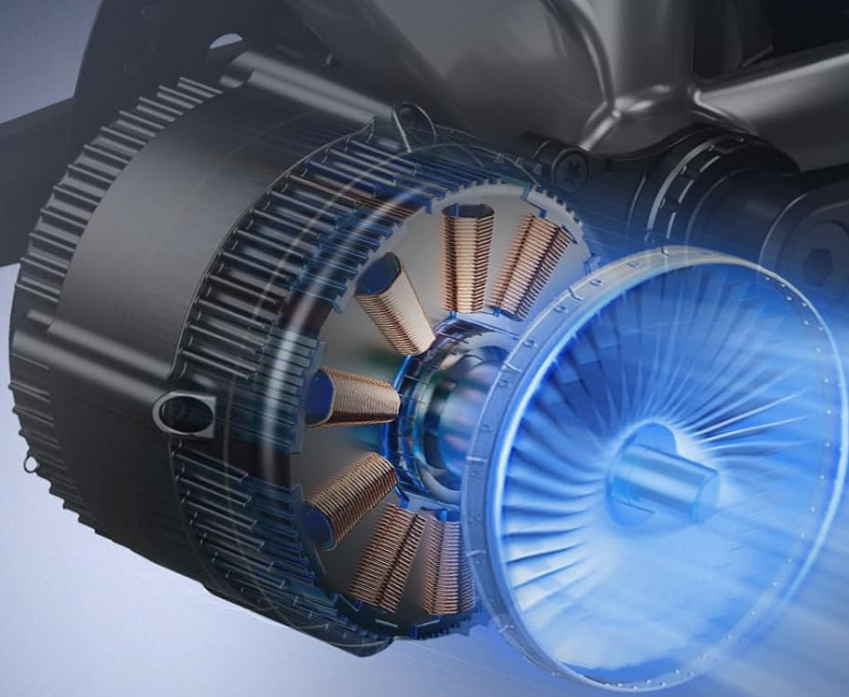


Figure 6.1: BAFANG LCD Display showing key riding information.

DOWNTUBE SHARK BATTERY

48V 13AH



Figure 6.2: Comparison of various high-tech BAFANG ebike display options.

6.2. Riding Modes

The BAFANG kit supports four primary riding modes:

- **Ebike Mode (Throttle):** Provides power directly from the motor via the thumb throttle, without requiring pedaling.
- **Pedal Assist Mode (PAS):** The motor provides assistance based on your pedaling effort. You can adjust the level of assistance (PAS level) on the display.
- **Walk Assist Mode:** Provides low-speed motor assistance to help you push the bike when walking.
- **Normal Bike Mode:** The motor is disengaged, and the bike functions as a regular bicycle, relying solely on pedal power.



Figure 6.3: Different riding modes for various terrains.

Your browser does not support the video tag.

Video 6.1: Learn more about the BAFANG BBS motor and its operation. This video demonstrates the motor's integration, display functions, and versatility across different riding environments.

7. BATTERY INFORMATION

The BAFANG kit is compatible with various battery types, offering different capacities and mounting options. Ensure your chosen battery is compatible with the 48V system and provides sufficient power for your riding needs.

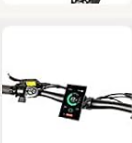
Model	PAS Level	Screen Size	Holder(mm)	Advanced password	Language	USB Charger DC 5V 500mA	
	 SW2-M58	3/5/9	3inch	22.2/25.4/31.8	1919	English	
	 DZ40	5	1.68inch	22.2	/	English	
	 DM03	3/5/9	1.3inch	22.2	1657	English	
	 500C	3/5/9	2.2inch	22.2	1919	English	
	 EKD01	3/5/9	2.4inch	22.2/25.4	2020	Multi Language	 Type-c
	 P860ML	3/5/9	3.5inch	22.2/25.4/31.8	1919	Multi Language	
	 C18-9	9	3.5inch	22.2/25.4/31.8	1919	English	
	 800S	0-3,1-3,0-5, 1-5 09, 1-9 UBE	2.8inch	22.2/25.4/31.8	0512	English	

Figure 7.1: Battery specification chart for various compatible ebike batteries.

G80 DOWNTUBE SHARK BATTERY

48V 19.2AH





9cm/ 3.54"

36.7cm/ 14.4"

12.7cm/ 5.0"

Net 4.95kg

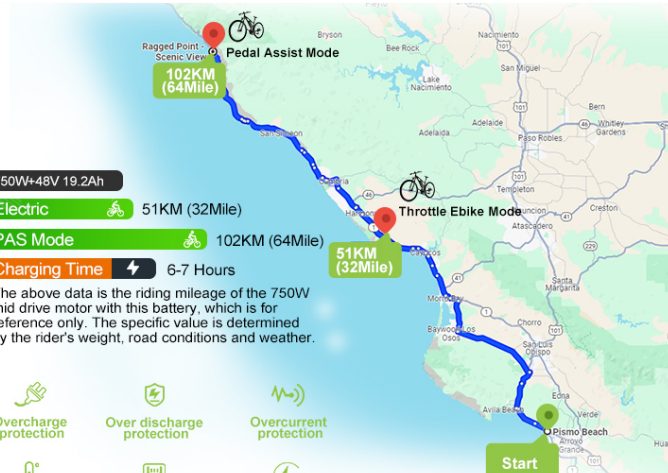
750W-48V 19.2Ah

Electric 51KM (32Mile)

PAS Mode 102KM (64Mile)

Charging Time 6-7 Hours

The above data is the riding mileage of the 750W mid drive motor with this battery, which is for reference only. The specific value is determined by the rider's weight, road conditions and weather.



Pedal Assist Mode 102KM (64Mile)

Throttle Ebike Mode 51KM (32Mile)

Start

921.6Wh Watt

21700 4800mah Battery Cell

30A Bms

1000 times Cycle Life

Overcharge protection

Overvoltage protection

Over discharge protection

Short circuit protection

Overcurrent protection

Temperature protection

Figure 7.2: Overview of various durable ebike battery options.

7.1. Battery Charging

Charging time for most batteries is typically 6-7 hours. Always use the charger provided with your battery or a compatible charger recommended by BAFANG or Greenergia. Ensure the charging environment is safe and well-ventilated.



Figure 7.3: Key features of BAFANG compatible batteries, including charging capabilities and safety aspects.

8. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your BAFANG Mid Drive Kit.

- **Cleaning:** Keep the motor, battery, and electrical connections clean. Use a damp cloth; avoid high-pressure washing directly on electrical components.
- **Lubrication:** Regularly lubricate the chain and other moving parts of your bicycle.
- **Cable Inspection:** Periodically check all cables and connectors for wear, damage, or loose connections. Ensure waterproof connections are secure.
- **Battery Care:** Store the battery in a cool, dry place. Avoid fully discharging the battery for extended periods. Charge it regularly, even when not in use.
- **Professional Check-ups:** Consider professional inspection and maintenance at least once a year, especially if you ride frequently or in challenging conditions.



Figure 8.1: Regular maintenance by a qualified technician is recommended.



Figure 8.2: Avoid using the ebike kit in heavy rain to prevent damage, despite waterproof wiring.

9. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For complex problems, contact customer support.

Problem	Possible Cause	Solution
Motor not providing assistance	Battery low/dead, loose connections, display error, brake sensor engaged.	Check battery charge, ensure all cables are securely connected, check display for error codes, ensure brake levers are not stuck.
Display not turning on	Loose power cable, battery issue, damaged display.	Check main power cable connection, verify battery is charged and connected, try restarting the system.
Inconsistent power delivery	Speed sensor misalignment, loose motor mounting, PAS sensor issue.	Check speed sensor alignment and magnet, ensure motor is securely mounted, inspect PAS sensor.

10. SPECIFICATIONS

Specification	Value
Brand	BAFANG
Model Name	M315 MM G340.750.C (BBS02B)
Motor Type	Mid Drive Brushless Motor
Rated Power	750 Watts
Voltage	48 Volts
Max Torque	120 N.m

Specification	Value
Max Speed	45 KM/H (28 mph)
Bottom Bracket Compatibility	68-73mm length, 33.5-36mm internal diameter (JIS standard)
Included Components	Mid Drive Kit, LCD ebike display, chainring, etc.

DIFFERENCE OF BBS AND HD MOTOR

BBS SERIES



EB-BUS 1T4 Connector
 Battery Connector (Red "+", Black "-")
 Front Lamp Connector
 Speed Sensor Connector
 Gear Shift Sensor Connector

BBSHD SERIES



EB-BUS 1T4 Connector
 Battery Connector (Red "+", Black "-")
 Front Lamp Connector
 Speed Sensor Connector
 Gear Shift Sensor Connector

Motor model	M315 MM G340.500.C	M315 MM G340.750.C	M615 MM G320.1000.C
Power	500W	750W	1000W
Voltage	48V	48V	48V52V
Controller current	18A	24A	30A
Efficiency	>80%	>80%	>80%
Max torque	100 N.m	120 N.m	160 N.m
Maximum speed	40.5km/h	50km/h	53km/h
Net motor weight	About 4.24kg	About 4.24kg	About 6.0kg
Bracket bottom length	68mm	68/100mm	68/100/120mm

Figure 10.1: Comparison of BAFANG BBS and BBSHD series motors.



1000W(Peak 1440W) Powerful Motor

Equipped with 1000W High-Torque Motor, with a top speed of 50KM/H making climbing easier,effortlessly conquer off-road challenges.Provide you with an awesome riding experience.

 45-50KM/H Max Speed:	 160N.m Max Torque:	 5.6KG Weight:
 45° Climbing angle:	 IPX5 Waterproof:	

Figure 10.2: Specifications of the 750W BAFANG Powerful Motor.

11. WARRANTY AND SUPPORT

Greenergia is an official agent of BAFANG, ensuring genuine products and reliable support. We maintain stock in various countries for quick order processing and have local technical teams to assist with after-sales issues. For any missing parts, technical assistance, or warranty claims, please contact our customer service. Our team is committed to providing prompt, responsible, and patient support for a peace-of-mind post-sales experience.

Contact Email: ga_sale_service@163.com



Figure 11.1: Dedicated customer service for support.

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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