

## Bewinner AK-160BT

# Bewinner AK-160BT Bluetooth 5.0 Stereo Audio Power Amplifier User Manual

Model: AK-160BT

## 1. INTRODUCTION

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This manual provides detailed instructions for the proper setup, operation, and maintenance of your Bewinner AK-160BT Bluetooth 5.0 Stereo Audio Power Amplifier. Please read this manual thoroughly before using the product to ensure optimal performance and safety. The AK-160BT is a compact 2-channel amplifier designed for versatile audio applications, including home theater, car audio systems, and karaoke setups, offering 20W x 2 output power and Bluetooth 5.0 connectivity.

## 2. SAFETY INSTRUCTIONS

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- **Power Supply:** Use only the specified 12V DC power adapter (not included). Ensure the power supply meets the amplifier's requirements (2-5A).
- **Ventilation:** Do not block any ventilation openings. Ensure adequate airflow around the unit to prevent overheating.
- **Moisture:** Keep the amplifier away from water, moisture, and high humidity environments.
- **Placement:** Place the unit on a stable, flat surface. Avoid placing it near heat sources or in direct sunlight.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified personnel.
- **Children:** Keep out of reach of children.

## 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- Bewinner AK-160BT Power Amplifier Unit
- User Manual

*Note: A 12V DC power adapter and audio cables are not included and must be purchased separately.*

## 4. PRODUCT OVERVIEW

Familiarize yourself with the amplifier's components and controls.

## Front Panel Controls

**Bass and treble can be adjusted independently**  
**Supports a range of different speaker sizes**  
**from 4-16ohms**



Image: Front panel of the AK-160BT amplifier, highlighting the main volume, bass, and treble adjustment knobs, along with the BT/AUX mode switch and power button.

1. **MODE Button:** Switches between Bluetooth (BT) and Auxiliary (AUX) input modes.
2. **BT/AUX Switch:** Selects the input source.
3. **ON/OFF Power Switch:** Turns the amplifier on or off.
4. **BASS Knob:** Adjusts the low-frequency audio output.
5. **VOLUME Knob:** Controls the overall audio output level.
6. **TREBLE Knob:** Adjusts the high-frequency audio output.

## Rear Panel Connections



Image: Rear panel of the AK-160BT amplifier, showing the red and black speaker wire terminals, RCA left and right audio input jacks, and the DC 12V power input port.

1. **RCA Audio Input (L/R):** Connect external audio sources via RCA cables.
2. **Speaker Terminals (L/R):** Connect passive speakers using speaker wire.
3. **DC 12V Power Input:** Connect the 12V DC power adapter.

## 5. SETUP

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Follow these steps to set up your amplifier:



## Stereo Power Amplifier High Power Output

delivers great amplification, with a maximum power output of 20W x 2

Image: The AK-160BT amplifier connected to two bookshelf speakers and a smartphone, illustrating a typical setup for audio playback.

- 1. Connect Speakers:** Connect your passive speakers to the speaker terminals on the rear panel. Ensure correct polarity (red to red, black to black) for each channel (Left and Right). The amplifier supports speakers with an impedance of 4-16 ohms.
- 2. Connect Audio Source:**
  - **Bluetooth:** No physical connection needed initially.
  - **AUX Input:** Connect your audio source (e.g., CD player, TV, smartphone) to the RCA audio input jacks on the rear panel using appropriate RCA cables.
- 3. Connect Power:** Connect a 12V DC power adapter (not included) to the DC 12V power input port on the rear panel. Then, plug the power adapter into a wall outlet.

## 6. OPERATING INSTRUCTIONS

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Once set up, operate your amplifier as follows:



Image: A hand turning the main volume knob on the AK-160BT amplifier, demonstrating typical user interaction.

1. **Power On:** Flip the ON/OFF Power Switch to the 'ON' position. The power indicator light will illuminate.
2. **Select Input Mode:** Press the MODE button or use the BT/AUX switch to select your desired input source (Bluetooth or AUX).
3. **Bluetooth Pairing:**
  - Switch the amplifier to Bluetooth mode.
  - On your Bluetooth-enabled device (e.g., smartphone, tablet), search for available Bluetooth devices.
  - Select "AK-160BT" from the list to pair. A confirmation sound may indicate successful pairing.
4. **Adjust Volume:** Rotate the VOLUME knob to increase or decrease the overall sound level.
5. **Adjust Tone:** Use the BASS and TREBLE knobs to fine-tune the low and high frequencies according to your preference.
6. **Power Off:** Flip the ON/OFF Power Switch to the 'OFF' position when not in use.

## 7. MAINTENANCE

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Proper care ensures the longevity of your amplifier:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or solvents.
- **Storage:** Store the amplifier in a cool, dry place when not in use for extended periods.
- **Ventilation:** Regularly check that ventilation openings are clear of dust and debris.

## 8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No power	Power adapter not connected or faulty; Power switch off.	Ensure power adapter is securely connected and plugged in. Turn the power switch to 'ON'. Test with a different 12V DC power adapter if available.
No sound	Incorrect input mode selected; Volume too low; Speaker connections loose or incorrect; Faulty audio source/cable.	Verify the correct input mode (BT/AUX) is selected. Increase the VOLUME knob. Check all speaker wire connections for proper polarity and secure fit. Test with a different audio source or cable.
Bluetooth connection issues	Amplifier not in Bluetooth mode; Device too far; Interference; Device already paired to another amplifier.	Ensure amplifier is in Bluetooth mode. Move your device closer to the amplifier. Turn off other Bluetooth devices nearby. Disconnect from other Bluetooth devices and try pairing again.
Distorted sound	Volume too high; Incorrect bass/treble settings; Speaker impedance mismatch; Faulty audio source.	Reduce the VOLUME. Adjust BASS and TREBLE knobs to a neutral position or to your preference. Ensure your speakers are within the 4-16 ohm range. Test with a different audio source.

## 9. SPECIFICATIONS

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Technical specifications for the Bewinner AK-160BT Power Amplifier:

Feature	Specification
Brand	Bewinner
Model Number	AK-160BT
Output Power	20W x 2 (40 Watts Total)
Number of Channels	2
Voltage	12 Volts (DC)
Minimum Supply Voltage	12 Volts (DC)
Maximum Supply Voltage	12 Volts (DC)
Material	Aluminium Alloy
Mounting Type	Surface Mount

<b>Feature</b>	<b>Specification</b>
Package Dimensions	5.24 x 4.45 x 1.93 inches
Item Weight	7.4 ounces
Specification Met	FCC

## **10. WARRANTY AND SUPPORT**

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For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact Bewinner customer service. Keep your purchase receipt as proof of purchase.