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PROZOR BT-309A

PROZOR BT-309A Bluetooth HiFi Stereo Amplifier

User Manual

1. Introduction

Thank you for choosing the PROZOR BT-309A Bluetooth HiFi Stereo Amplifier. This compact and versatile audio amplifier is designed to provide high-quality sound for both home and car audio systems. Featuring Bluetooth connectivity, FM radio, USB/SD card playback, and microphone inputs, it offers multiple options for your audio entertainment. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance and longevity of your device.

2. Safety Information

- **Power Supply:** Ensure the amplifier is connected to the correct power source (AC 220V or DC 12V) as indicated on the device. Using an incorrect voltage may damage the unit and void the warranty.
- **Ventilation:** Do not block any ventilation openings. Ensure adequate airflow around the unit to prevent overheating.
- **Water and Moisture:** Do not expose the amplifier to rain, moisture, or excessive humidity. Keep it away from liquids.
- **Heat Sources:** Avoid placing the unit near heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.
- **Cleaning:** Disconnect the power before cleaning. Use a dry, soft cloth for cleaning. Do not use liquid cleaners or aerosol cleaners.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Speaker Impedance:** Ensure your speakers have an impedance of 4-16Ω as recommended for this amplifier.

3. Package Contents

Upon opening the package, please verify that all the following items are included:

- PROZOR BT-309A Digital Audio Amplifier

- Remote Control
- Power Cable (AC 220V)
- User Manual



Image: The PROZOR BT-309A amplifier shown alongside its included remote control and user manual, demonstrating the typical contents of the product package.

4. Product Features

- **2-Channel Stereo Amplifier:** Suitable for 4-16Ω speakers, delivering 40W+40W output.
- **Adjustable Audio Controls:** Supports adjustment of Echo, Bass, Treble, and Master Volume for customized sound.
- **Bluetooth Receiver:** Easily stream music and podcasts from your mobile phone or other Bluetooth-enabled devices to your stereo system.
- **Dual Microphone Inputs:** Equipped with two MIC inputs for karaoke sessions with family and friends, suitable for both car and home use.
- **Dual Power Input:** Supports both AC 220V and DC 12V input voltage, making it versatile for home and portable applications.
- **Wide Compatibility:** Includes FM radio, USB port, and SD card slot for various audio playback options.
- **Compact and Portable:** Lightweight and compact design for easy transport and setup.

5. Controls and Interfaces

5.1 Front Panel Controls



Image: Detailed diagram of the PROZOR BT-309A amplifier's front panel, highlighting and labeling each control knob, button, and input port for easy identification and understanding.

- **POWER Switch (ON/OFF):** Toggles the amplifier power on or off.
- **MIC VOL (Microphone Volume):** Adjusts the volume level of the connected microphones.
- **ECHO:** Controls the echo effect for the microphone inputs.
- **BASS:** Adjusts the low-frequency audio output.
- **TREBLE:** Adjusts the high-frequency audio output.
- **MUSIC VOL (Master Volume):** Controls the overall volume level of the audio output.
- **MODE Button:** Cycles through input modes (Bluetooth, FM, USB, SD, AUX).
- **Previous/Next Track Buttons:** Navigates between tracks in USB/SD mode or stations in FM mode.
- **Play/Pause Button:** Controls playback for USB/SD and Bluetooth modes.
- **USB Port:** For connecting USB flash drives for audio playback.
- **SD/MMC Card Slot:** For inserting SD or MMC memory cards for audio playback.
- **LCD Display:** Shows current mode, track information, or FM frequency.
- **MIC1/MIC2 Inputs:** 6.35mm (1/4 inch) jacks for connecting microphones.
- **AUX Input (Rear Panel):** RCA jacks for connecting external audio devices.

5.2 Remote Control Functions



Image: A clear diagram of the PROZOR BT-309A amplifier's remote control, with each button numbered and its corresponding function described, facilitating remote operation.

1. **Power Button:** Turns the amplifier on or off.
2. **CH-/CH+ (Channel Down/Up):** Changes FM radio channels.
3. **Previous/Next Track:** Skips to the previous or next audio track.
4. **Volume +/-:** Increases or decreases the master volume.
5. **Single Loop Button:** Toggles single track repeat mode.
6. **MODE Button:** Switches between input modes (Bluetooth, FM, USB, SD, AUX).
7. **EQ Button:** Cycles through equalizer presets.
8. **Play/Pause:** Plays or pauses audio playback.
9. **Numeric Keypad (0-9):** Direct input for FM frequencies or track numbers.

6. Setup

6.1 Connecting Speakers

1. Ensure the amplifier is turned off.
2. Connect your passive speakers to the speaker terminals on the rear panel of the amplifier. Ensure correct polarity (positive to positive, negative to negative).
3. This amplifier is designed for speakers with an impedance of 4-16Ω.

6.2 Connecting Audio Sources

The amplifier supports multiple audio input methods:



Image: An illustrative diagram showcasing the various input methods supported by the PROZOR BT-309A amplifier, including USB, SD card, Bluetooth, FM radio, RCA AUX, and microphone inputs.

- **Bluetooth:** No physical connection needed. See Section 7.1 for pairing instructions.
- **USB/SD Card:** Insert a USB flash drive or SD/MMC card into the respective slot on the front panel.
- **AUX Input (RCA):** Connect external audio devices (e.g., CD player, TV, computer) to the RCA L/R input jacks on the rear panel using an RCA cable.
- **Microphone Input:** Plug microphones into the MIC1 or MIC2 jacks on the front panel.

6.3 Power Connection

1. For home use, connect the AC power cable to the amplifier's AC input and then to a standard 220V wall outlet.
2. For car use, connect a DC 12V power supply to the DC input terminals on the rear panel. Ensure correct polarity.
3. Once all connections are secure, switch the POWER button to the 'ON' position.

7. Operation

7.1 Bluetooth Pairing

1. Turn on the amplifier.
2. Press the **MODE** button on the front panel or remote control until the display shows "BLUE" or "BT".
3. Enable Bluetooth on your mobile device (smartphone, tablet, laptop).
4. Search for available Bluetooth devices and select "BT-309A" from the list.
5. Once paired, the amplifier will emit a confirmation tone, and you can start playing audio from your device.

7.2 FM Radio Operation

1. Press the **MODE** button until the display shows "FM".
2. Extend the FM antenna on the rear panel for better reception.
3. Press the Play/Pause button (or the corresponding button on the remote) to initiate an automatic scan for FM stations. The amplifier will save found stations.

4. Use the Previous/Next Track buttons (or CH-/CH+ on the remote) to navigate through saved stations.

7.3 USB/SD Card Playback

1. Insert a USB flash drive or SD/MMC card containing MP3 audio files into the respective slot.
2. The amplifier should automatically switch to USB or SD mode and begin playback. If not, press the **MODE** button to select the correct input.
3. Use the Play/Pause and Previous/Next Track buttons to control playback.

7.4 AUX Input Playback

1. Connect your external audio device to the AUX (RCA) input on the rear panel.
2. Press the **MODE** button until the display shows "LINE" or "AUX".
3. Play audio from your connected device. The amplifier will output the sound.

7.5 Microphone Usage



Image: A visual representation of connecting microphones to the PROZOR BT-309A amplifier's front panel inputs, illustrating its karaoke feature.

1. Plug your microphones into the MIC1 or MIC2 jacks on the front panel.
2. Adjust the **MIC VOL** knob to control the microphone's volume.
3. Use the **ECHO** knob to add or remove echo effect to the microphone sound.

8. Maintenance

- **Cleaning:** Regularly wipe the amplifier's exterior with a soft, dry cloth. Do not use abrasive cleaners, waxes, or solvents.
- **Ventilation:** Ensure the ventilation slots are free from dust and debris to maintain proper airflow and prevent overheating.
- **Storage:** If storing the amplifier for an extended period, disconnect it from the power source and store it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Replacement (Remote Control):** If the remote control's range decreases or it stops responding, replace its battery (type not specified, typically CR2025 or similar button cell).

9. Troubleshooting

Problem	Possible Cause	Solution
No power	Power cable not connected; Power switch off; No power from outlet/source.	Check power cable connection; Turn power switch ON; Test outlet/source with another device.
No sound output	Volume too low; Incorrect input mode selected; Speakers not connected or faulty; Audio source issue.	Increase Master Volume; Press MODE to select correct input; Check speaker connections and polarity; Verify audio source is playing.
Bluetooth not connecting	Amplifier not in Bluetooth mode; Device Bluetooth off; Device too far; Already connected to another device.	Switch amplifier to Bluetooth mode; Enable Bluetooth on your device; Move device closer; Disconnect from other devices.
Poor FM reception	Antenna not extended; Weak signal; Interference.	Fully extend the FM antenna; Reposition the amplifier; Try manual tuning or rescan.
USB/SD card not recognized	Incorrect file format; Card/drive corrupted; Improperly inserted.	Ensure files are MP3 format; Try another USB/SD card; Reinsert card/drive firmly.
Microphone not working	MIC VOL too low; Microphone faulty; Incorrect jack used.	Increase MIC VOL; Test with another microphone; Ensure microphone is plugged into MIC1 or MIC2.

10. Specifications



Image: A diagram illustrating the physical dimensions of the PROZOR BT-309A amplifier, including its height, width, and depth in both centimeters and inches.

Feature	Detail
Model Number	BT-309A
Output Power	40W + 40W
Speaker Impedance	4-16Ω
Input Voltage	AC 220V / DC 12V
Connectivity	Bluetooth, FM Radio, USB, SD Card, AUX (RCA), Microphone (6.35mm)
Dimensions (L x W x H)	Approx. 20cm x 14cm x 5.4cm (7.87in x 5.51in x 2.12in)
Weight	Approx. 1.39 kg
Batteries (Remote)	1 Lithium-Ion battery required (included)
Manufacturer	PROZOR
Country of Origin	China

11. Warranty and Support

PROZOR products are designed for reliability and performance. In case you encounter any issues or have questions regarding your BT-309A amplifier, please refer to the troubleshooting section first. If the problem persists, kindly contact PROZOR customer support for assistance. Our dedicated after-sales service team is ready to help you with any inquiries during the usage process.

Please retain your proof of purchase for warranty claims. Specific warranty terms and conditions may vary by region and retailer. For the most up-to-date support information, please visit the official PROZOR website or contact the seller directly.

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