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ARRAROWN BT-298A+

ARRAROWN BT-298A+ Bluetooth 5.0 Stereo Audio Amplifier User Manual

Model: BT-298A+

1. INTRODUCTION

The ARRAROWN BT-298A+ is a versatile 2-channel stereo audio amplifier designed for home theater audio systems. It features Bluetooth 5.0 connectivity, FM radio, USB, and SD card inputs, providing multiple options for audio playback. With 40W x 2 power output, it is suitable for driving 4-16 ohm passive speakers, delivering clear and powerful stereo sound. This manual provides detailed instructions for setup, operation, and maintenance of your amplifier.



Image 1.1: The BT-298A+ amplifier unit shown with its included remote control.

2. SAFETY INSTRUCTIONS

To ensure safe operation and prevent damage, please read and adhere to the following safety guidelines:

- Do not expose this appliance to rain or moisture.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the appliance.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this appliance during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way,

such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

3. PRODUCT FEATURES

The BT-298A+ amplifier offers a range of features designed for an enhanced audio experience:

- **Bluetooth 5.0 Connectivity:** Fast transmission speed, lossless decoding, and low distortion rate for wireless audio streaming up to 10m/33ft.
- **Multiple Input Modes:** Supports USB flash disk, USB sound card, SD card, and Line (AUX) inputs for versatile audio sources.
- **2.0 Channel Stereo Output:** Delivers 40W + 40W rated power, ideal for 4-16 ohm passive speakers.
- **Adjustable Treble and Bass:** Independent controls to fine-tune your audio output for deeper bass and clearer treble.
- **Dual Microphone Inputs:** Equipped with two microphone input jacks and dedicated volume control for karaoke or public address use.
- **FM Radio Function:** Built-in FM tuner for listening to your favorite radio stations.
- **Compact Design:** Mini size (7.1 x 5.5 x 2.2 inches) makes it easy to store and carry, suitable for various home audio setups.
- **Remote Control:** Full-function remote control for convenient operation from a distance.

4. PACKAGE CONTENTS

Please check the package for the following items:

- 1 x ARRAROWN BT-298A+ Power Amplifier
- 1 x Remote Control
- 1 x User's Manual
- 1 x Power Cable

PACKING LIST



Home Audio Amplifier

| | | | |
|------------------------------|---------------|------------------------|-------------------|
| Model | BT-298A | Adapted speaker | 2*40W, 4-16Ω |
| Signal to noise ratio | >85dB | Power Range | AC110V, DC12V/5A |
| Version | Bluetooth 5.0 | Rated power | 40W+40W |
| Wireless Range | Up to 40'+ft. | Reak power | 300W+300W |
| Audio Input | BT+AUX | Size | 7.7in*5.5in*2.2in |

Image 4.1: Visual representation of the package contents and amplifier dimensions.

5. PRODUCT OVERVIEW

5.1 Front Panel Controls and Indicators

KARAOKE AMPLIFIER

2 MIC inputs, come and sing with your friends and family



Image 5.1: Front panel layout with labeled controls.

1. **Power Button:** Turns the amplifier on or off.
2. **SD Card Jack:** Insert SD/MMC cards for audio playback.
3. **USB Input:** Connect USB flash drives for audio playback.
4. **Display:** LCD screen showing current mode, track information, and FM frequency.
5. **Mode Switch:** Cycles through input modes (Bluetooth, USB, SD, Line, FM).
6. **Previous Button:** Skips to the previous track/station.
7. **Pause/Play Button:** Plays or pauses audio playback.
8. **Next Button:** Skips to the next track/station.
9. **Single Cycle Button:** Repeats the current track.
10. **Treble Control:** Adjusts the high-frequency output.
11. **Bass Control:** Adjusts the low-frequency output.
12. **Microphone Volume:** Adjusts the volume of connected microphones.

- 13. **Microphone Jack (MIC 1 & MIC 2):** Connect 6.35mm microphones.
- 14. **Main Volume Control:** Adjusts the overall output volume.

5.2 Rear Panel Connections



Image 5.2: Rear panel connections.

- 1. **AUX Input (L/R RCA):** Connect external audio devices via RCA cables.
- 2. **Line Input (L/R RCA):** Another set of RCA inputs for audio sources.
- 3. **Speakers Output (L/R):** Connect passive speakers (4-16 ohm impedance). Ensure correct polarity (+ to + and - to -).
- 4. **FM ANT:** Connect the included FM antenna for radio reception.
- 5. **DC12V/5A Input:** Optional 12V DC power input (for specific applications, typically not used for standard home use).
- 6. **AC Power Input:** Connect the provided 110V AC power cable.

6. SETUP

Follow these steps to set up your amplifier:

1. Speaker Connection:

- Ensure the amplifier is turned off and unplugged.
- Connect your passive speakers to the "SPEAKERS OUTPUT" terminals on the rear panel. Match the positive (+) terminal on the amplifier to the positive (+) terminal on your speaker, and the negative (-) to the negative (-).
- The amplifier supports speakers with an impedance of 4-16 ohms.

2. Audio Source Connection:

- **For Wired Devices (TV, CD Player, etc.):** Connect your audio device's output to the "AUX Input" or "Line Input" RCA jacks on the rear panel using appropriate RCA cables.
- **For USB/SD Card:** Insert your USB flash drive or SD card into the respective slots on the front panel.
- **For FM Radio:** Connect the included FM antenna to the "FM ANT" jack on the rear panel. Extend the antenna for better reception.

3. Power Connection:

- Connect the provided AC power cable to the "AC POWER INPUT" on the rear panel of the amplifier.
- Plug the other end of the power cable into a standard 110V AC wall outlet.

7. OPERATING INSTRUCTIONS

7.1 Power On/Off

Press the **Power Button** on the front panel to turn the amplifier on or off. The display will illuminate when powered on.

7.2 Mode Selection

Press the **MODE** button on the front panel or the remote control to cycle through the available input modes: Bluetooth, USB, SD, Line (AUX), and FM Radio. The selected mode will be shown on the display.

7.3 Volume and Tone Control

- **Main Volume:** Rotate the large **VOLUME** knob on the front panel to adjust the overall sound output level. You can also use the VOL+ / VOL- buttons on the remote.
- **Treble:** Rotate the **TREBLE** knob to increase or decrease the high-frequency sounds.
- **Bass:** Rotate the **BASS** knob to increase or decrease the low-frequency sounds.

7.4 Bluetooth Operation

BLUETOOTH 5.0 AND REMOTE CONTROL OPERATION

This amplifier is equipped with the latest Bluetooth 5.0 and remote control, allowing you to remotely control it through the remote control



Image 7.1: Bluetooth connectivity setup.

1. Switch the amplifier to **Bluetooth mode** using the MODE button. The display will show "BLUE" or similar.
2. On your Bluetooth-enabled device (smartphone, tablet, computer), search for Bluetooth devices.
3. Select "BT-298A+" from the list of available devices to pair.
4. Once paired, you can play audio from your device through the amplifier.
5. To switch to another mode, first disconnect the Bluetooth connection on your audio device, then press the MODE button on the amplifier.

7.5 USB/SD Card Playback

Insert a USB flash drive or SD card containing audio files into the respective slot. The amplifier will automatically switch to USB or SD mode and begin playback. Use the **Previous**, **Play/Pause**, and **Next** buttons on the front panel or remote to control playback.

7.6 FM Radio Operation

Switch to **FM mode** using the MODE button. Use the **Previous** and **Next** buttons to manually tune to stations. For automatic scanning, press and hold the Play/Pause button (this function may vary, refer to remote control instructions).

7.7 Microphone (Karaoke) Function



Passive Speaker/
Subwoofer Output



Bluetooth
5.0



FM Radio



MAX Power
Output



Class D

Image 7.2: The amplifier supports dual microphone inputs for karaoke.

Connect up to two 6.35mm microphones to the **MIC 1** and **MIC 2** jacks on the front panel. Adjust the microphone volume using the **MIC VOL** knob. The microphone input works in any mode, allowing you to sing along with music from Bluetooth, USB, SD, or Line inputs.

8. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the amplifier's exterior. Do not use liquid cleaners or aerosol sprays.
- **Ventilation:** Ensure the ventilation openings are clear and not obstructed to prevent overheating.
- **Storage:** If storing the amplifier for an extended period, unplug it from the power outlet and store it in a cool, dry place away from direct sunlight and extreme temperatures.

9. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|----------------------------|--|---|
| No power | Power cable not connected; Power outlet faulty; Amplifier off. | Ensure power cable is securely connected. Try a different outlet. Press the Power button. |
| No sound output | Incorrect input mode selected; Volume too low; Speakers not connected correctly; Audio source issue. | Press MODE to select correct input. Increase Main Volume. Check speaker wire connections (polarity). Verify audio source is playing. |
| Bluetooth connection fails | Amplifier not in Bluetooth mode; Device too far; Interference; Device already paired elsewhere. | Ensure amplifier is in Bluetooth mode. Move device closer. Turn off other Bluetooth devices. Disconnect from other devices and try again. |
| Static or Hissing noise | Poor audio cable connection; Electrical interference; Inherent noise floor. | Check all audio cable connections. Try moving the amplifier away from other electronic devices. Ensure proper grounding. |
| USB/SD card not playing | Incorrect file format; Card/drive not inserted properly; Corrupted files. | Ensure audio files are in a supported format (e.g., MP3). Reinsert the card/drive. Try a different USB/SD card. |

10. SPECIFICATIONS

| Feature | Detail |
|------------------------|---|
| Model | BT-298A+ |
| Brand | ARRAROWN |
| Channels | 2.0 Channel |
| Rated Power Output | 40W x 2 |
| Peak Power Output | 300W + 300W |
| Speaker Impedance | 4-16 Ohms |
| Bluetooth Version | 5.0 |
| Wireless Range | Up to 10m / 33ft |
| Audio Inputs | Bluetooth, AUX (Line), USB, SD Card, FM Radio |
| Microphone Inputs | 2 (6.35mm Jack) |
| Signal to Noise Ratio | >85dB |
| Distortion Rate | ≤0.4% |
| Power Supply | AC 110V (or DC 12V/5A) |
| Dimensions (L x W x H) | 7.1 x 5.5 x 2.2 inches (180 x 140 x 55 mm) |
| Item Weight | 1.65 pounds (0.75 kg) |

11. WARRANTY AND SUPPORT

ARRAROWN products are designed and manufactured to the highest quality standards. For any questions, technical support, or warranty inquiries, please contact ARRAROWN customer service through the retailer where you purchased the product or visit the official ARRAROWN store page on Amazon:

[Visit the ARRAROWN Store on Amazon](#)

Please retain your proof of purchase for warranty claims.

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