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Suacopzar AB3002-SL-US

Suacopzar 298Pro Stereo Audio Amplifier User Manual

Model: AB3002-SL-US

1. INTRODUCTION

The Suacopzar 298Pro Stereo Audio Amplifier is a compact and versatile audio solution designed for home theaters, acoustic sound systems, and karaoke. It features Bluetooth 5.0 connectivity, multiple input options including USB, SD/TF card, RCA, and microphone inputs, along with FM radio. The amplifier delivers clear and powerful sound, making it suitable for various listening environments.

What's in the Box:

- Power Amplifier
- Remote Control
- User Manual
- Power Cord
- FM Antenna

2. PRODUCT OVERVIEW

Front Panel Controls and Features:



Figure 2.1: Front Panel Layout

The front panel provides access to all primary controls and input ports for convenient operation. Key features include:

- **SD/MMC Card Slot:** For playing audio files directly from an SD or MMC card.
- **USB Port:** For playing audio files from a USB flash drive.
- **Treble Control:** Adjusts the high-frequency response of the audio.
- **Bass Control:** Adjusts the low-frequency response of the audio.
- **Echo Control:** Adjusts the echo effect for microphone inputs, ideal for karaoke.
- **MIC 1 & MIC 2 Inputs:** Two 1/4-inch microphone input jacks.
- **MIC/VOL Control:** Adjusts the volume level of the connected microphones.
- **Digital LED Display:** Shows current mode, track information, and FM frequency.
- **Mode Button:** Cycles through input modes (LINE, Radio, Bluetooth, USB/SD).
- **Song Control Buttons:** Play/Pause, Previous/Next Track.
- **Volume Control:** Large rotary knob to adjust the main output volume.

400W+400W Hi-Fi Stereo Amp

400W+400W Peak Power, 50W+50W Rated Power



Figure 2.2: Rear Panel Layout

The rear panel houses all necessary connections for power, audio input, and speaker output.

- **Power Switch:** Main power ON/OFF switch for the unit.
- **110V Power Cord Input:** Connects the amplifier to an AC power outlet.
- **DC 12V Power Input:** Alternative power input for DC 12V, 5A.
- **Speaker Outputs (Right & Left Channel):** Spring clip terminals for connecting passive speakers (4Ω-16Ω impedance).
- **Audio Input (RCA):** Red and white RCA jacks for connecting external audio sources like CD/DVD players or turntables.
- **Radio Antenna:** Extendable antenna for FM radio reception.

3. SETUP

3.1 Connecting Speakers

Connect your passive speakers to the speaker output terminals on the rear panel. Ensure correct polarity: connect the positive (+) terminal of the amplifier to the positive (+) terminal of the speaker, and the negative (-) terminal of the amplifier to the negative (-) terminal of the speaker. The amplifier supports speakers with an impedance of 4Ω to 16Ω.



Figure 3.1: Speaker Terminals

To connect speaker wires, press down on the spring clip, insert the bare wire end, and release the clip to secure the connection.

3.2 Connecting Audio Sources

- **RCA Input:** Use an RCA cable to connect audio devices (e.g., CD player, DVD player, turntable with built-in preamp) to the "AUDIO INPUT" jacks on the rear panel.
- **USB/SD/TF Card:** Insert a USB flash drive or SD/TF card containing MP3 audio files into the respective slots on the front panel. Ensure the drive/card is formatted in FAT32.
- **Microphones:** Plug 1/4-inch microphone cables into the "MIC 1" or "MIC 2" input jacks on the front panel.

3.3 Power Connection

Connect the provided power cord to the "110V/60Hz" input on the rear panel and then plug it into a standard AC power outlet. Alternatively, for DC power, connect a 12V, 5A DC power adapter (not included) to the "POWER DC INPUT" jack.

3.4 Antenna Connection

Extend the telescopic FM antenna on the rear panel for optimal FM radio reception.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

To power on the amplifier, flip the "POWER" switch on the rear panel to the ON position. To power off, flip the switch to the OFF position. Note that the power button on the remote control only puts the unit into standby mode.

4.2 Mode Selection

Press the "MODE" button on the front panel or the remote control to cycle through the available input modes: LINE (RCA input), Radio (FM), Bluetooth, and USB/SD/TF Card.

4.3 Bluetooth Operation



Figure 4.1: Bluetooth Connectivity

1. Switch the amplifier to "Bluetooth" mode using the MODE button. The display will show "BLUE" and a three-tone chime will indicate pairing mode.
2. On your mobile device (smartphone, tablet, laptop), enable Bluetooth and search for available devices.
3. Select "BT" from the list of devices to pair. Once connected, you will hear a confirmation sound.
4. You can now play audio from your device through the amplifier.
5. To disconnect, unpair the device from your mobile device's Bluetooth settings.

4.4 USB/SD/TF Card Playback

1. Insert a USB flash drive or SD/TF card (formatted in FAT32) containing MP3 files into the corresponding slot.
2. The amplifier will automatically switch to USB/SD mode and begin playback. If not, press the MODE button to select it.
3. Use the "Play/Pause", "Previous Track", and "Next Track" buttons on the front panel or remote control to manage playback.
4. The "Repeat" button on the remote allows you to repeat a single song or all songs.

4.5 FM Radio Operation

1. Switch the amplifier to "Radio" mode using the MODE button.
2. Press the "Play/Pause" button to initiate an automatic scan of FM stations. The amplifier will save strong signals as presets.
3. Use the "Previous Track" and "Next Track"

buttons to cycle through the saved preset stations.4. The FM frequency range is 87.5-108MHz.

4.6 Microphone and Echo Adjustment



Figure 4.2: Microphone Inputs for Karaoke

1. Connect up to two microphones to the "MIC 1" and "MIC 2" input jacks.
2. Adjust the microphone volume using the "MIC/VOL" knob.
3. Use the "ECHO" knob to add or reduce the echo effect for the microphone audio. This feature is ideal for karaoke or public announcements.

4.7 Tone and Volume Control



Figure 4.3: Tone Controls

- **Volume:** Use the large "VOLUME" knob on the front panel to adjust the overall output volume of the amplifier.
- **Treble:** Rotate the "TREBLE" knob to increase or decrease the high-frequency sound.
- **Bass:** Rotate the "BASS" knob to increase or decrease the low-frequency sound.

4.8 Remote Control Usage



Figure 4.4: Remote Control

The included remote control allows for convenient adjustment of settings from a distance. Functions include power (standby), mode selection, volume control, track navigation, and EQ presets (primarily for USB mode).

5. MAINTENANCE

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

- Keep the unit in a dry, well-ventilated area, away from direct sunlight, heat sources, and excessive dust.
- Clean the exterior with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Ensure proper ventilation by not blocking the ventilation grilles on the sides of the unit.
- Unplug the amplifier from the power outlet when not in use for extended periods.

6. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|----------------------------|--|---|
| No power | Power cord not connected; Rear power switch OFF; Remote control standby mode. | Ensure power cord is securely plugged in. Flip the rear power switch to ON. If using remote, press the power button again to fully turn on. |
| No sound output | Incorrect input mode selected; Volume too low; Speaker wires loose or incorrectly connected; Audio source not playing. | Press MODE button to select correct input. Increase VOLUME. Check speaker wire connections for proper polarity and secure fit. Ensure audio source is playing and its volume is adequate. |
| Bluetooth not connecting | Amplifier not in Bluetooth mode; Device too far; Bluetooth not enabled on device; Already paired with another device. | Switch amplifier to Bluetooth mode. Ensure device is within range. Enable Bluetooth on your device. Disconnect from other Bluetooth devices if necessary. |
| USB/SD card not recognized | Incorrect file format; Card/drive not formatted in FAT32; Corrupted files. | Ensure files are MP3. Format USB/SD card to FAT32. Try a different USB/SD card. |
| Poor FM reception | Antenna not extended; Weak signal area. | Fully extend the radio antenna. Try repositioning the amplifier for better signal. |
| Remote control not working | Battery depleted; Obstruction between remote and unit; Remote too far. | Replace remote battery. Ensure no obstructions. Operate remote within 6 feet of the unit. |

7. SPECIFICATIONS



Product Features

| | | |
|-------------------------------|---------------------------------|-----------------|
| Model: BT-298 Pro | RMS Power: 50W x 2 | SNR: >92db |
| Voltage: 110V AC or 12V DC 5A | Peak Power: 400W x 2 | Impedance: 4-8Ω |
| Channel: 2 Channel | Distortion Rate: 0.2% | Resolution: 47K |
| Frequency: 10-20KHz | FM Radio Frequency: 87.5-108MHZ | |

Figure 7.1: Product Dimensions and Features

| Feature | Detail |
|-------------------------|--------------------|
| Brand | Suacopzar |
| Model Number | AB3002-SL-US |
| Connectivity Technology | Bluetooth |
| Special Feature | Built-In Bluetooth |
| Compatible Devices | Speaker |
| Connector Type | USB |
| Audio Output Mode | Stereo |

| Feature | Detail |
|--------------------------------------|-----------------------------------|
| Surround Sound Channel Configuration | 2 Channel |
| Color | Black |
| Output Power | 50 Watts (RMS 50Wx2 / MAX 400Wx2) |
| Number of Channels | 2 |
| Package Dimensions | 8.43 x 8.23 x 3.07 inches |
| Item Weight | 2.68 pounds |
| FM Radio Frequency | 87.5-108MHz |

8. WARRANTY AND SUPPORT

The Suacopzar 298Pro Stereo Audio Amplifier comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the quality of your product.

For any questions, technical assistance, or warranty claims, please contact Suacopzar customer service. We are committed to providing superior products and ensuring customer satisfaction.

PROMISE & SERVICE



24/7 Customer Services

We are always here to help you with online email assistance



Warranty Services

We stand by the quality of our products with a comprehensive one-year warranty.



Fast & Reliable Delivery

Our items were pre-shipped to Amazon warehouses to ensure that you can enjoy your purchase without delay.

Figure 8.1: Suacopzar Brand Commitment

Suacopzar offers 24/7 customer services via online email assistance to help with any inquiries.