

Juson Audio JTA100

Juson Audio JTA100 200W Hybrid Vacuum Tube Amplifier

INSTRUCTION MANUAL

1. Introduction

Thank you for choosing the Juson Audio JTA100 Hybrid Vacuum Tube Amplifier. This amplifier combines the warm, rich sound of vacuum tubes with the robust power of transistor amplification, delivering a superior audio experience for your home system. Featuring versatile input options including Bluetooth 5.0, Optical, AUX, RCA Phono, and PC-USB, along with a dedicated headphone output, the JTA100 is designed to integrate seamlessly with a wide range of audio sources.

This manual provides detailed instructions for the proper setup, operation, and maintenance of your JTA100 amplifier. Please read it thoroughly before use to ensure optimal performance and longevity of your device.



Image 1.1: The Juson Audio JTA100 Hybrid Vacuum Tube Amplifier with its included remote control.

2. Safety Instructions

To prevent fire, electric shock, and damage to the unit, please observe the following safety precautions:

- Do not expose this unit to rain or moisture.
- Do not remove the cover. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- Ensure proper ventilation. Do not block ventilation openings.
- Avoid placing the unit near 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 apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.

- Do not insert objects into the unit's openings.
- Ensure the voltage selector switch on the rear panel is set to the correct voltage for your region (115V or 230V) before connecting to power.

3. Package Contents

Please check that all items are present in the package:

- JTA100 Amplifier Unit
- User Manual (this document)
- Remote Control
- Bluetooth Antenna
- Power Cord



Image 3.1: The included remote control for the JTA100 amplifier.

4. Product Overview

4.1 Front Panel Controls

Class AB HIFI Tube Amplifier

200W Powerful Output

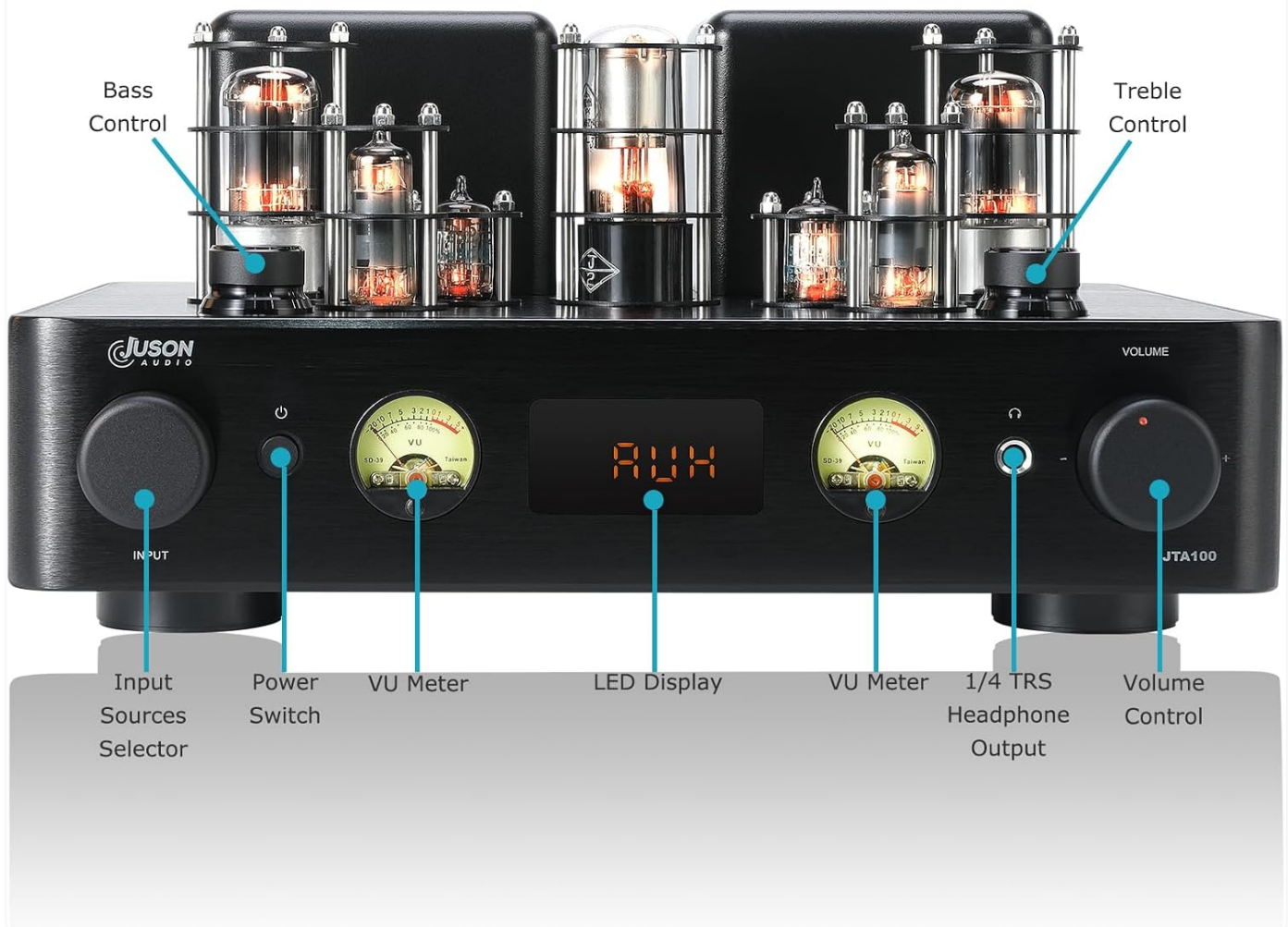


Image 4.1: Front panel layout of the JTA100 amplifier with key controls labeled.

1. **Input Sources Selector:** Rotary knob to select between AUX, COAX, PHONO, OPT, BT, and PC-USB inputs.
2. **Power Switch:** Toggles the amplifier on or off.
3. **VU Meter:** Displays the audio output level for the left and right channels.
4. **LED Display:** Shows the currently selected input source.
5. **1/4" TRS Headphone Output:** Connects headphones for private listening.
6. **Volume Control:** Adjusts the overall output volume.
7. **Bass Control:** Adjusts the low-frequency response.
8. **Treble Control:** Adjusts the high-frequency response.

4.2 Rear Panel Connections

Variety Inputs

Fits for Most of Modern Devices

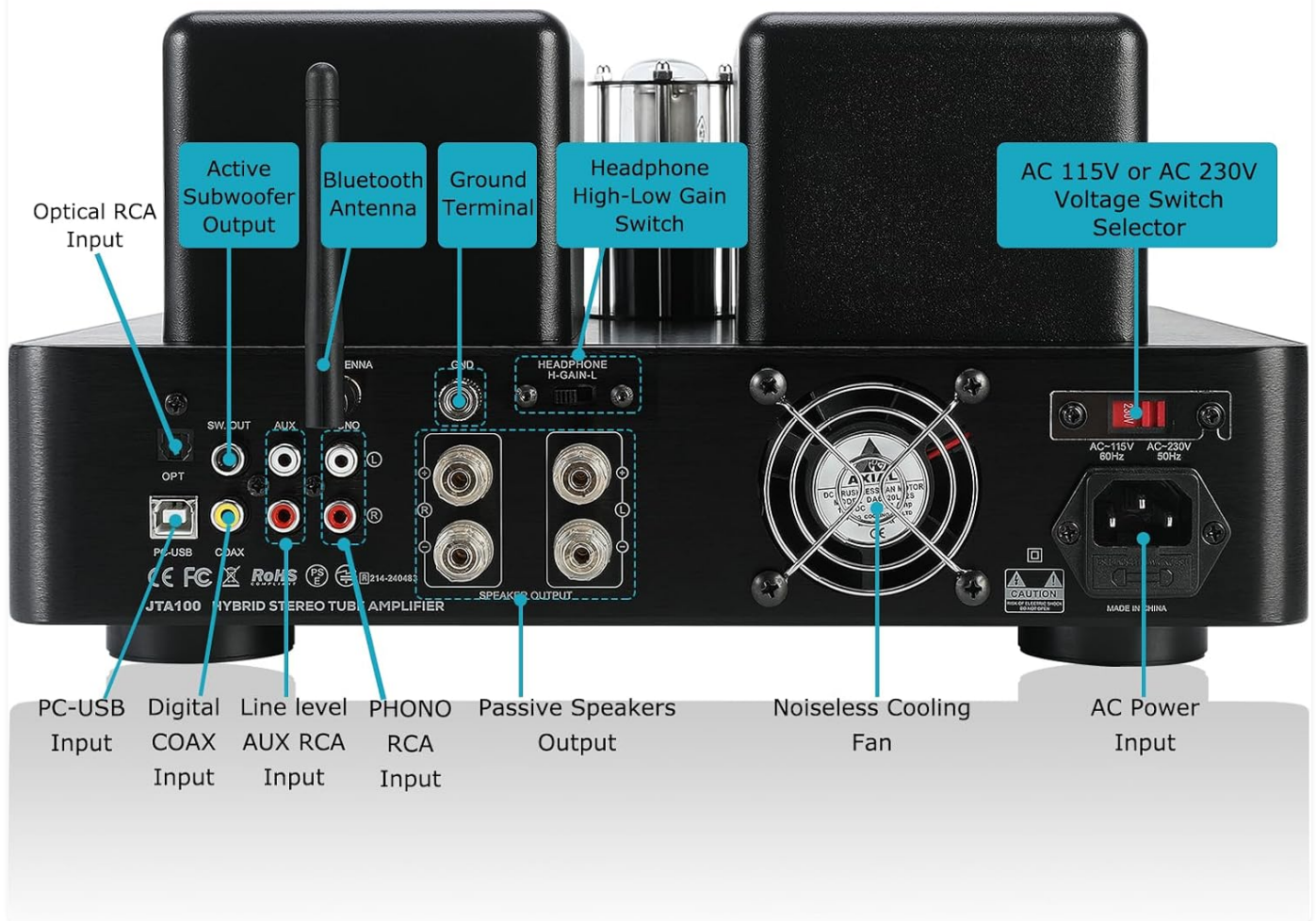


Image 4.2: Rear panel layout of the JTA100 amplifier with various input and output ports labeled.

1. **Optical RCA Input (OPT):** Digital audio input for devices like TVs, CD players.
2. **Active Subwoofer Output (SW OUT):** Connects to an active subwoofer.
3. **Bluetooth Antenna:** Connect the included antenna for Bluetooth connectivity.
4. **Ground Terminal (GND):** For connecting the ground wire from a turntable.
5. **Headphone High-Low Gain Switch:** Adjusts gain for headphones (High for 16-600 ohms, Low for lower impedance).
6. **AC 115V or AC 230V Voltage Switch Selector:** Selects the appropriate voltage for your region. **Ensure this is set correctly before powering on.**
7. **PC-USB Input:** Connects to a computer for digital audio playback.
8. **Digital COAX Input:** Digital audio input.
9. **Line Level AUX RCA Input:** Analog audio input for various devices.
10. **PHONO RCA Input:** Dedicated input for turntables with a moving magnet (MM) cartridge.
11. **Passive Speakers Output:** Connects to passive stereo speakers.
12. **Noiseless Cooling Fan:** Provides cooling for internal components.
13. **AC Power Input:** Connects the power cord.

5. Setup

Follow these steps for initial setup:

1. **Unpacking:** Carefully remove the amplifier and all accessories from the packaging.
2. **Placement:** Place the amplifier on a stable, level surface with adequate ventilation around it. Avoid direct sunlight or heat sources.
3. **Voltage Selection:** Locate the AC 115V/230V voltage selector switch on the rear panel.**Ensure it is set to the correct voltage for your region before connecting the power cord.** Incorrect voltage selection can cause severe damage to the unit.
4. **Connect Bluetooth Antenna:** Screw the included Bluetooth antenna into the designated port on the rear panel.
5. **Speaker Connection:** Connect your passive stereo speakers to the "Passive Speakers Output" terminals on the rear panel. Ensure correct polarity (+ to + and - to -) for each speaker.
6. **Input Source Connection:** Connect your desired audio sources (e.g., CD player, turntable, TV) to the appropriate input ports on the rear panel (AUX, PHONO, OPT, COAX, PC-USB).
7. **Subwoofer Connection (Optional):** If using an active subwoofer, connect it to the "Active Subwoofer Output" (SW OUT) using an RCA cable.
8. **Power Connection:** Connect the power cord to the AC Power Input on the rear panel, then plug the other end into a suitable wall outlet.

The Amp Makes Your Home Audio Systems Sound More Comfortable

With an impressive 200Watts RMS output and Versatile Inputs, Leveraging the richness of vacuum tubes preamp and the robustness of transistor power amplify, this tube amplifier brings you superior sound reproduction, perfectly balancing warmth and clarity.



Image 5.1: The JTA100 amplifier integrated into a home audio system with speakers.

6. Operating Instructions

6.1 Power On/Off

Press the **Power Switch** button on the front panel to turn the amplifier on or off. The LED display will illuminate when the unit is powered on.

6.2 Input Selection

Rotate the **Input Sources Selector** knob on the front panel to choose your desired audio source (AUX, COAX, PHONO, OPT, BT, PC-USB). The selected input will be displayed on the LED screen.

6.3 Volume Control

Adjust the **Volume Control** knob on the front panel clockwise to increase volume and counter-clockwise to decrease it. You can also use the remote control for volume adjustments.

6.4 Tone Controls (Bass & Treble)

Use the **Bass Control** and **Treble Control** knobs on the top panel to fine-tune the low and high frequencies of your audio output according to your preference.

6.5 Headphone Use

Connect your headphones to the **1/4" TRS Headphone Output** on the front panel. The amplifier will automatically mute the speaker outputs when headphones are connected.

Adjust the **Headphone High-Low Gain Switch** on the rear panel based on your headphone's impedance:

- **High Gain:** For headphones with impedance between 16 and 600 ohms.
- **Low Gain:** For headphones with lower impedance.

Enjoy Private listening Through Headphone

With professional 6.35mm headphone and a remote, Start your music revelry
High-low Gain Switch allows to connect even 300 ohms headphone



Image 6.1: The JTA100 amplifier with headphones connected, illustrating private listening functionality.

7. Connectivity

7.1 Bluetooth 5.0 Connection

1. Ensure the Bluetooth antenna is securely connected to the rear panel.
2. Select "BT" as the input source using the Input Sources Selector knob. The LED display will show "BLUE" or "BT".
3. On your Bluetooth-enabled device (smartphone, tablet, etc.), search for available Bluetooth devices.
4. Select "JTA100" from the list of devices to pair.
5. Once paired, audio from your device will play through the amplifier.

7.2 Optical/Coaxial Input

Connect your digital audio source (e.g., TV, Blu-ray player, game console) to the "OPT" (Optical) or "COAX" (Coaxial) input on the rear panel using the appropriate digital audio cable. Select the corresponding input on the amplifier.

7.3 AUX RCA Input

Connect any analog audio source (e.g., CD player, media streamer) to the "AUX" RCA input on the rear panel using standard RCA cables. Select "AUX" as the input source.

7.4 PHONO RCA Input (for Turntable)

Connect your turntable to the "PHONO" RCA input. If your turntable has a ground wire, connect it to the "GND" terminal on the amplifier's rear panel to reduce hum. Select "PHONO" as the input source.

7.5 PC-USB Input

Connect your computer to the "PC-USB" input on the rear panel using a USB cable. The amplifier will act as an external sound card for your computer. Select "PC-USB" as the input source.

7.6 Active Subwoofer Output

Connect an active subwoofer to the "SW OUT" RCA port to enhance bass response in your audio system.

8. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier. Do not use liquid cleaners or solvents.
- **Vacuum Tubes:** The vacuum tubes have a finite lifespan. If you notice a degradation in sound quality or tube failure, replacement may be necessary. Consult qualified personnel for tube replacement.
- **Ventilation:** Ensure the ventilation openings are clear of dust and obstructions to prevent overheating.
- **Storage:** If storing the unit for an extended period, unplug it from the power outlet and cover it to protect against dust.

9. Troubleshooting

Problem	Possible Cause	Solution
No power	Power cord not connected; Power switch off; Incorrect voltage selection.	Ensure power cord is securely connected. Turn power switch on. Verify voltage selector is set correctly.

Problem	Possible Cause	Solution
No sound from speakers	Incorrect input selected; Volume too low; Speakers not connected; Headphones connected.	Select correct input. Increase volume. Check speaker connections. Disconnect headphones.
No sound from headphones	Headphones not fully plugged in; Volume too low; Incorrect gain setting.	Ensure headphones are fully inserted. Increase volume. Adjust Headphone High-Low Gain Switch.
Bluetooth pairing failure	"BT" input not selected; Device too far; Interference.	Select "BT" input. Move device closer. Restart amplifier and device.
Humming/Buzzing sound (Phono)	Turntable ground wire not connected; Ground loop.	Connect turntable ground wire to "GND" terminal. Try different power outlets for components.
Distorted sound	Volume too high; Input signal too strong; Damaged tubes.	Reduce volume. Check source device output level. Consult for tube inspection/replacement.

10. Technical Specifications

Model: JTA100

Output Power: 200 Watts RMS

Amplifier Type: Hybrid (Vacuum Tube Preamp, Class AB Transistor Power Amp)

Inputs: AUX (RCA), COAX (Digital), OPT (Optical), PHONO (RCA), BT 5.0, PC-USB

Outputs: Passive Speakers, Active Subwoofer (RCA), 1/4" TRS Headphone

Headphone Impedance: 16-600 ohms (with High-Low Gain Switch)

Product Dimensions: 12.99 x 12.44 x 6.65 inches (33 x 31.6 x 16.9 cm)

Item Weight: 16.28 pounds (7.38 kg)

Manufacturer: Shenzhen Juson Technology Co.,Limited

11. Warranty and Support

For warranty information and customer support, please refer to the documentation provided at the time of purchase or contact your retailer. You may also visit the official Juson Audio website for further assistance.

Manufacturer: Shenzhen Juson Technology Co.,Limited

For the latest information and support, please visit:[Juson Audio Store on Amazon](#)

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