

Cayin CAYINCS845AREFERENCESR

Cayin CS-845A Reference Integrated Tube Amplifier User Manual

Model: CAYINCS845AREFERENCESR

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Cayin CS-845A Reference Integrated Tube Amplifier. Please read this manual thoroughly before using the amplifier and retain it for future reference. This amplifier is designed to deliver high-fidelity audio performance using premium vacuum tubes.

2. IMPORTANT SAFETY INFORMATION

- **Power Supply:** Connect the amplifier only to an AC power source that matches the voltage specified on the rear panel. Ensure the power cord is securely connected and not damaged.
- **Ventilation:** The amplifier generates heat during operation. Ensure adequate ventilation by placing it in an open area, away from direct sunlight or heat sources. Do not block ventilation openings.
- **Moisture:** Do not expose the amplifier to rain, moisture, or excessive humidity. Avoid placing liquid-filled objects on or near the unit.
- **Tube Handling:** Vacuum tubes can become very hot. Avoid touching them during operation or immediately after powering off. Allow sufficient cooling time before handling. Tubes are fragile; handle with care.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel. Opening the amplifier enclosure exposes dangerous voltages.
- **Placement:** Place the amplifier on a stable, level surface. Avoid placing it near strong magnetic fields or other electronic devices that may cause interference.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Cayin CS-845A Reference Integrated Tube Amplifier Unit
- Power Cable
- Remote Control
- Vacuum Tubes (2x 6SN7, 2x 300B, 2x 845)
- User Manual (this document)
- White Gloves (for tube handling)

4. PRODUCT OVERVIEW

4.1 Front Panel

The front panel provides access to essential controls for daily operation.



Image: Front view of the Cayin CS-845A amplifier. Features include a large, centrally located volume control knob, an input selector switch, and the main power switch.

4.2 Rear Panel

The rear panel houses all input and output connections.



Image: Rear view of the Cayin CS-845A amplifier. This panel includes three sets of RCA line-level inputs, one Pre-In input for use as a power amplifier, and robust speaker output terminals.

4.3 Tube Layout

The amplifier utilizes a specific arrangement of vacuum tubes for optimal audio performance.



Image: Top view of the Cayin CS-845A amplifier, illustrating the placement of the vacuum tubes. Two 6SN7 tubes are used for pre-amplification, two 300B tubes act as drivers, and two 845 tubes serve as the power output stage.

5. SETUP

5.1 Unpacking and Placement

- Carefully remove the amplifier from its packaging.
- Place the amplifier on a sturdy, level surface with ample space around it for ventilation. Avoid enclosed cabinets.

5.2 Tube Installation

If tubes are not pre-installed, follow these steps:

- Wearing the provided white gloves, carefully remove each tube from its protective packaging.
- Identify the correct socket for each tube type (6SN7, 300B, 845) as indicated on the amplifier chassis or in the tube layout diagram.
- Align the pins of the tube with the holes in the socket. Gently push the tube straight down until it is

firmly seated. Do not force it.

5.3 Connecting Audio Sources

Connect your audio sources (e.g., CD player, network streamer, phono preamplifier) to the RCA Line Inputs on the rear panel. Use high-quality RCA cables.

- **RCA Line Inputs:** For standard audio sources. The amplifier's pre-amplification stage will be active.
- **Pre-In Input:** This input bypasses the amplifier's pre-amplification stage, allowing the CS-845A to function solely as a power amplifier. This is useful when connecting to an external preamplifier or an AV receiver with pre-outs.

5.4 Connecting Speakers

Connect your loudspeakers to the appropriate speaker terminals on the rear panel. Ensure correct polarity (+ to + and - to -) for each speaker. Use high-quality speaker cables.

5.5 Power Connection

Once all audio and speaker connections are made, connect the power cable to the amplifier's AC inlet and then to a suitable wall outlet.

6. OPERATING

6.1 Powering On/Off

- To power on, press the main power switch on the front panel. The tubes will begin to warm up. Allow a few minutes for the tubes to stabilize before critical listening.
- To power off, press the main power switch again.

6.2 Input Selection

Use the input selector switch on the front panel or the remote control to choose your desired audio source (Line 1, Line 2, Line 3, or Pre-In).

6.3 Volume Control

Adjust the volume using the large knob on the front panel or the volume buttons on the remote control. Start with a low volume and gradually increase it to a comfortable listening level.

6.4 Adjustable Negative Feedback

The Cayin CS-845A features adjustable negative feedback, allowing you to fine-tune the amplifier's sonic characteristics. This can be adjusted via the remote control or a control on the amplifier itself.

- **0 dB Setting:** This setting optimizes for detail and transparency, providing a more analytical sound.
- **Higher dB Settings:** Increasing the negative feedback can result in a warmer, smoother, and more relaxed sound. Experiment to find the setting that best suits your preferences and audio system.

6.5 Using as a Power Amplifier (Pre-In Mode)

When the 'Pre-In' input is selected, the amplifier's internal pre-amplification stage is bypassed. This allows you to use the CS-845A as a dedicated power amplifier, driven by an external preamplifier or a home cinema processor with pre-outs. In this mode, the amplifier's volume control may be bypassed or set to a

fixed level, depending on the design, and volume is controlled by the external source.

7. MAINTENANCE

7.1 Cleaning

- Dust the amplifier regularly with a soft, dry cloth.
- For stubborn marks, use a slightly damp cloth with a mild, non-abrasive cleaner. Ensure the amplifier is powered off and unplugged before cleaning.
- Avoid using harsh chemicals or solvents, as they may damage the finish.

7.2 Tube Replacement

Vacuum tubes have a finite lifespan. When tubes begin to degrade (e.g., loss of sound quality, increased noise), they will need to be replaced. Contact your dealer for recommended replacement tubes and guidance on the replacement process.

7.3 Ventilation

Ensure that the amplifier's ventilation openings remain clear and unobstructed at all times to prevent overheating.

8. TROUBLESHOOTING

If you experience issues with your amplifier, consult the following troubleshooting guide:

- **No Power:** Check the power cable connection, wall outlet, and the amplifier's power switch.
- **No Sound:** Verify that the correct input is selected, volume is not at minimum, and speaker cables are securely connected. Check source component functionality.
- **Distorted Sound:** Ensure speaker impedance matches the amplifier's output, check for damaged cables, or try reducing the volume. Faulty tubes can also cause distortion.
- **Hum or Buzz:** Check for proper grounding of all components. Ensure audio cables are not running parallel to power cables. Move the amplifier away from other electronic devices that may cause interference.
- **Remote Control Not Working:** Check the batteries in the remote control. Ensure there are no obstructions between the remote and the amplifier's IR receiver.

If the problem persists after attempting these solutions, contact customer support or a qualified service technician.

9. SPECIFICATIONS

| Feature | Specification |
|--------------|----------------------------|
| Model | Cayin CS-845A Reference |
| Output Power | 2 x 24 Watts RMS (Class A) |

| Feature | Specification |
|------------------------|---|
| Tube Complement | 2x 6SN7 (Pre-amplification), 2x 300B (Driver), 2x 845 (Power) |
| Inputs | 3x RCA Line, 1x Pre-In |
| Output | Speaker Terminals |
| Negative Feedback | Adjustable (0dB setting available) |
| Volume Control | Alps potentiometer |
| Transformer | Wide-band output transformer, Toroidal power transformer |
| Color | Silver |
| Manufacturer Reference | CAYINCS845AREFERENCESR |

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The Cayin CS-845A Reference Integrated Tube Amplifier comes with a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, accident, unauthorized modification, or normal wear and tear of vacuum tubes.

10.2 Customer Support

For technical assistance, service, or warranty inquiries, please contact your authorized Cayin dealer or distributor. You may also visit the official Cayin website for further support resources.