

Richwood
RAC-50

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Acoustic Instrument Amplifier
Owner's Manual



WARNING

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



The lightning symbol within a triangle means, “Electrical caution!” It indicates the presence of information about operating voltage and potential risks of electrical shock.



The exclamation point within a triangle means, “Caution!” Please read the information next to all caution signs.

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Introduction

Richwood RAC-50 is a classical acoustic guitar amplifier which has unique feature. All of its design is to meet the sound of the pursuit of the music of its rational and emotional demands. The most important element of acoustic music is the embodiment of the resonance of the strings and wood in the air. Richwood RAC-50 engines have rich experience about the acoustic sound and they are qualified to create the great sound, Richwood RAC-50 acoustic guitarspeaker will response fast to every signal from your guitar and reproduce pure sound.

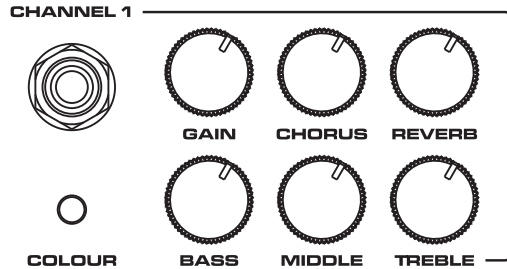
Richwood RAC-50 has been designed a sophisticated pre-stage circuit for a variety of classic acoustic curves, whether it's rosewood, mahogany, maple, or spruce, pine, acacia and other acoustic wood, it can transmit the most correct sound. Built-in chorus, reverb effect circuit can describe different scale of emotion of music, from mild to rich, dual channel and independent 3-band EQ can balance the

vocal and guitar sound to create the most harmonious blend of the scene, 1.5 inch high-frequency horns and 6.5inch high-fidelity low frequency speakers can maintain the most pure and vocal sound in a small concert, recording studio or the large-scale stage.

- 2 independant Channels, Mic Input
- 3 band EQ (Bass- Mid- Treble)
- Chorus and Reverb effect
- 50 watt RMS
- 1 x 6.5 inch Woofers, 1 x 1 inch Tweeters
- High sensitive speaker, great dynamic.
- DI OUT
- 3.5mm (1/8) Aux-in
- FX Loop
- Separate phase switch

Features

1、Channel 1



INPUT Jack

Signal input, socket for 1/4" mono jackplug

GAIN Knob

Input level control

CHORUS Knob

Chorus level control

REVERB Knob

Reverb level control

BASS/MIDDLE/TREBLE Knob

Bass/middle/treble frequency level control

COLOUR Button

Tone color filter activation switch

Tone color filter on |

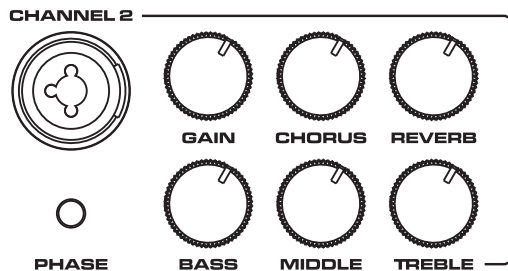
Weaken treble to soften possible sharpness

Tone color filter off

Enhance treble to brighten the sound

Control Panel

2、Channel 2



INPUT Jack

Signal input, combo-socket for 1/4" mono jackplug and XLR-connectors

Gain Knob

Input level control

CHORUS Knob

Chorus level control

REVERB Knob

Reverb level control

BASS/MIDDLE/TREBLE Knob

Bass/middle/treble frequency level control

PHASE Button

Phase function switch

When you connecting 2 instruments, microphone or external audio device to this amplifier simultaneously, please press this button to active or disable phase function to get your favorable tone.

If the volume is too high, you can try to active or disable phase function to control feedback noise.

3、Master Knob



Master Volume Control

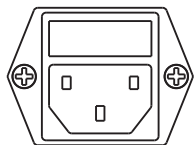
4、Power Switch and power indicator



On/Off Switch, when the power is on, the Power indicator lights on.

Rear Panel

1. Power Socket/Fuse Holder



Connect the included power cord to this socket.

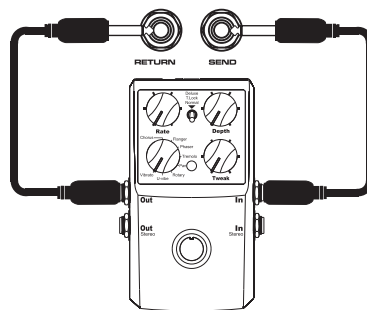
2. Voltage switch

100V-120V • • 220V-240V



Please adjust the voltage switch to let it matches your local AC Power rating before you plug the cord into the wall outlet.

3. Send and Return Jack



You can connect external pedals, using send & return jack, to enrich the effect sound of Richwood RAC-50. Signal forwarding to external pedals from Send Jack already been processed by built-in equalizer but not built-in effects.

4. Aux In Jack



AUX IN

You can connect external media players like CD player, MP3 or Mobile phone to this device.

5. Line Out Jack



LINE OUT

You can connect a mixer or recording device here. The Line Out supplies a pre-amp signal taken after built-in equalizer, effects and master.

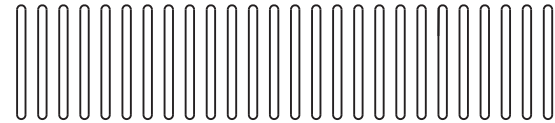
6. DI Out Jack



DI OUT

Preamp-output with balanced signal, after built-in equalizer, pre master without effects.

7. Louver



Heat radiating area, DO NOT COVER.

Examples of using Richwood RAC-50

Small concert

Richwood RAC-50 has 2 independent channels. you can connect your guitar and microphone to it simultaneously to singing and playing guitar at the same time.

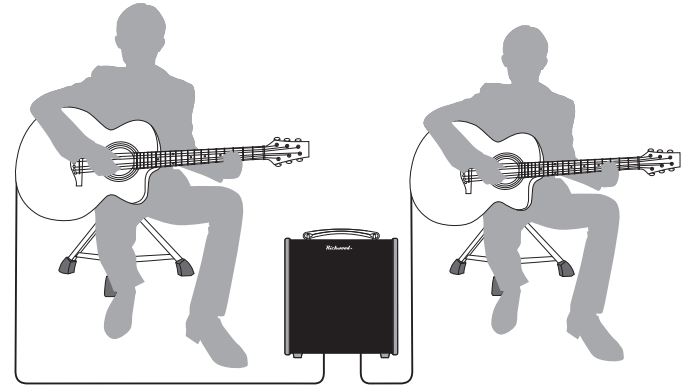
- Connect Guitar to input jack of Channel 1
- Connect microphone to input jack of Channel 2
- Adjust the equalizer and effects of both channels to get ready for performing or practicing.



Guitar Duo

With the 2 independent channels on Richwood RAC-50, you can connect 2 guitars to it simultaneously.

- Connect the first guitar to input jack of Channel 1
- Connect the second guitar to input jack of Channel 2
- Adjust the equalizer and effects of both channels to get ready for performing or practicing.

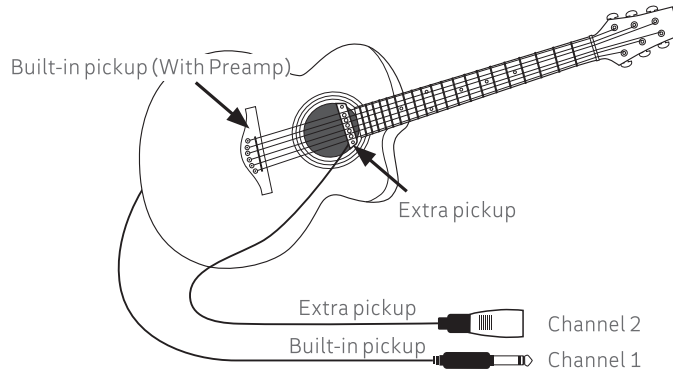


Examples of using Richwood RAC-50

One guitar with two types of pickups

With 2 independent channels on Richwood RAC-50, you can connect both pickup systems to it.

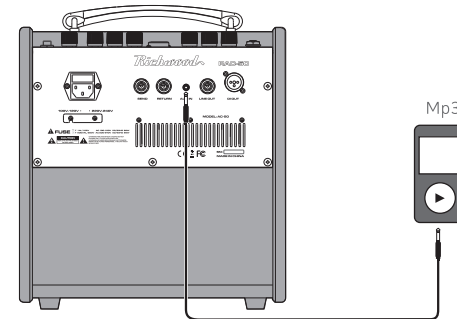
- Connect the built-in pickup system to channel 1
- Connect the extra pickup system to channel 2
- Adjust the equalizer and effects of both channels to get ready for performing or practicing.



Play along backing track.

With the Aux-In Jack on rear panel, you can connect your mobile phone, MP3 or backing machine.

- Connect the external device to Aux-in Jack with 1/8" cable
- Choose and play the backing track you wanted to jam with.
- Using the master knob of Richwood RAC-50 and volume button on your external device to adjust the output volume.



Technical Specifications

Power: 50 Watt	Input Impedance
Standard Sound pressure: 106dB @1W/m	Channe1: 2.2M Ω
Frequency Response Range: 50Hz-20KHz(-3dB)	Channe2: 2K Ω
Power supply: AC100-120V, AC220-240V	Aux Input: 21K Ω
Power Consumption: less than 88Watt	
6.5" Woofer	On-board Equalizer
1" Tweeter	Bass frequency: ± 10 dB@80Hz(shelving)
Dimension: 310mm(W) x 285mm(D) x360mm(H)	Middle frequency: ± 10 dB@1.8kHz(peaking)
Weight: 11 Kg	Tremble frequency: ± 10 dB@15kHz(shelving)

CE mark for European Harmonized Standards

CE Mark which is attached to our company's products of Battery mains the product is in fully conformity with the harmonized standard(s) EN 61000-6-3:2007+A1:2011 & EN 61000-6-1:2007 Under the Council Directive 2004/108/EC on Electromagnetic Compatibility.