

Two-Rock

Burnside

OWNER'S MANUAL

Dear Customer,

Thank you for your purchase of a **Two-Rock!**

As a discerning guitarist, you know the road to great tone begins with great components.

Our Classic Design, carefully selected parts and hand-built approach combine to make an extremely versatile instrument.

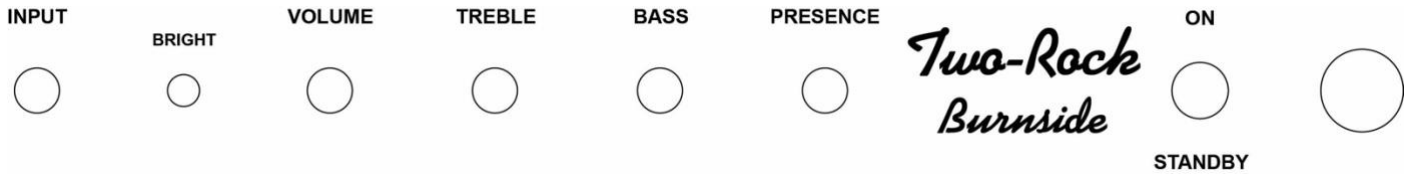
Please take the time to read this manual. We hope it will answer any questions that you may have.

We extend a warm welcome to you as a member of a select group of musicians who have chosen a **Two-Rock** amplifier.

Important Safety Instructions

1. Read these instructions
2. Keep these instructions
3. Heed all warnings
4. Follow all instructions
5. Do not use this apparatus near water
6. Clean only with dry cloth
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions
8. Do not install near any heat sources such as radiators, heat registers, plugs, and the point where they exit from the apparatus
9. Protect the power cord from being walked on or pinched particularly at plugs and the point where they exit from the apparatus
10. Only use attachments/accessories specified by the manufacturer
11. Unplug this apparatus during lightning storms or when unused for long periods of time
12. 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
13. CAUTION: To disconnect the unit completely from the MAINS, unplug the unit. Turning the power switch off does not disconnect the unit completely from the MAINS.

Front Panel Functions



INPUT JACK - High impedance input to the amplifier. Plug in your instrument here.

BRIGHT Switch - Boosts the high frequency response. This is most effective when the Volume control is set at 12 o'clock or lower. This is great for adding sparkle to clean tones. The effect is less dramatic as the Volume control is adjusted past the 12 o'clock position.

VOLUME - Very responsive single volume control provides natural tube compression at any volume setting. As this control is turned up, it pushes the amp into beautiful natural tube sustain and breakup which can then be cleaned up by backing off your guitar's volume control and or your pick/finger attack.

TREBLE - Adjusts the high frequency response. In the full counter-clockwise position, high frequencies are bypassed to ground. In the full clockwise position, high frequencies are allowed to pass to the next gain stage. This control is very interactive with the BASS control

BASS - Adjusts the bass response. In the full counter-clockwise position, low frequencies are cut. In addition, the response of the treble control is greatly reduced. This control is very interactive with the TREBLE control. In the full clockwise position, low frequencies are allowed to pass to the next gain stage.

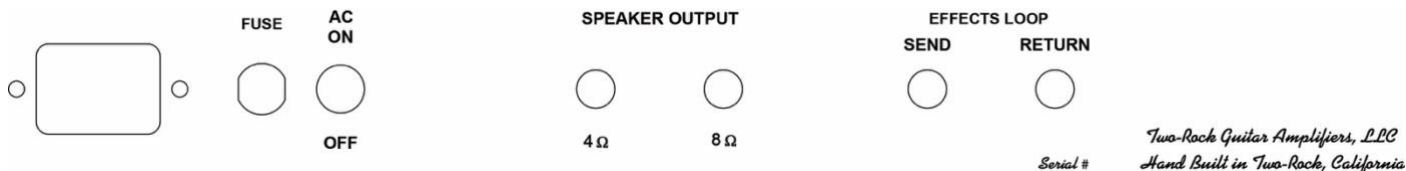
PRESENCE - Adjusts the contour of the high-frequency response. Turning this control up gradually increases the intensity of the upper frequencies. This is a subtle control which can be used to either emphasize sparkle and brightness when needed or smooth out your overall tone by turning the control down.

STANDBY - This switch should be in the down/STANDBY position before you place the Power switch to the up/ON position. After 20 seconds or more, place the Standby switch in the "up" position to play the amplifier. When you are taking a break from playing the amp you can leave the amp "powered up" and simply switch to the "stand-by" position to mute the output of the amplifier and prolong power tube life.

INDICATOR LAMP - This lamp will illuminate when the power switch is in the "up" position,

indicating the unit is receiving A/C power.

Rear Panel Functions



A/C Input - Connects the amplifier to A/C power via the power cord supplied. Unless otherwise specified, your amplifier is designed to operate on 120 volts A/C, 60 cycles.

Fuse- See Fuse Chart

Power Switch -Turns power on.

Speaker Output Jacks - There are 3 speaker output jacks; 4, 8, and 16 ohms.

NEVER OPERATE YOUR AMPLIFIER WITHOUT A PROPER SPEAKER LOAD CONNECTED.
Be sure to match the impedance of your cabinet with the impedance (output) of the amplifier.

Effects Loop –

The effects loop on this amplifier is a passive type of loop, see FAQ on two-rock.com

Send - Use this jack to send the amplifier's signal to the effects that you want to use in the loop.

Return - Use this jack to connect the output from the effects in the loop back to the amplifier.

S/N - Your serial number is located here. We strongly suggest that you record this number and have it handy in case you need service, or in the event that your amp is lost, stolen, or damaged.

Fuse Chart

All Fuses are 3AG Type 250 Volt, SLO-BLO

Export 100V	Domestic 120V	Export 220V, 230V, 240V
2A – 35 Watt	2A – 35 Watt	1A-35 Watt

TUBE COMPLIMENT

V1 - Preamp 12AY7 (Use a 12AX7 for added gain)

V2 - Phase Inverter 12AX7

V3, V4 - Power 6L6GC

V5 - Rectifier 5AR4

Each fine production tube is tested and matched to our exacting specifications. When the time comes that the power tubes need replacing, it's very important to use high quality, matched sets of power tubes. It's also critical that the bias of the amp be reset after installing new, or NOS power tubes. External bias adjustment and test points are located on the bottom of the chassis near the output tube sockets. A digital voltmeter and small screwdriver are required for bias adjustment.

BIAS PROCEDURE:

1. Make sure the speaker is connected properly, then power up the amplifier
2. **DO NOT** apply any signal to the input during the biasing procedure!
3. Insert the volt meter's positive probe into the bias test point socket
4. Connect the volt meter's negative probe to chassis ground
5. Switch the amp out of standby and allow a few seconds for the circuit to stabilize
6. Set the voltmeter to millivolt scale (or lowest volt scale 60 millivolts = .060 volts.)
7. Observe the display on the meter to see the current bias setting

The Burnside amplifier is built to use 6L6GC power tubes.

Factory Bias Setting: .063V

**Bias ranges are measured and set in volts*

**Do not set bias higher than recommended levels as it can lead to tube failure and possible damage to other components in the amplifier!*

(NOTE: Burnside amps built prior to 2020 were equipped with 6V6GT power tubes.

The correct bias setting for amps equipped with 6V6's is .045V - .050V

WARNING! No user serviceable parts inside! Refer to qualified service person only.

LINE CORD- For your safety, connect to grounded A/C receptacle only.

We know your new **Two-Rock** amplifier will provide many hours of enjoyment and inspiration in the years to come. This manual is a resource for some of your questions. Please contact us with any other questions or comments that you may have. We look forward to hearing from you!

PHONE: 1(707)584-TONE (8663) (M-F 9am-5pm PST)

ADDRESS: Two-Rock Amplifiers, LLC
619 Martin Avenue, Suite 5
Rohnert Park, CA 94928

CONTACT: info@two-rock.com

WEB: www.two-rock.com



DECLARATION OF CONFORMITY
According to EC Directive

Manufacturer: Two-Rock Amplifiers, LLC
Address: 619 Martin Ave.
STE 5
Rohnert Park, CA 94928

Phone: 707-584-8663
E-mail: info@two-rock.com

Product Name: Audio Power Amplifier

Brand Name: Two-Rock
Model Numbers/Report Numbers:

Burnside:	R130829C, R130915
Cardiff:	R160425, SR160430
Classic Reverb(Signature):	R130829C, R130915
Coral:	R070212, R070213
Crystal:	R130829C, R130915
Sensor:	R070212, R070213
Studio Pro(PLUS):	R130829C, R130915
TS1:	R070212, R070213

Has been designed and manufactured in accordance to the following technical regulation:
Directive Device:

Low Voltage Equipment 2014/35/EU
Electromagnetic Compatibility 2014/130/EU

Conformity with the following standards:

The measurements made in accordance with the procedures according to the European Council Directive and EN Standards.

Council Directive and EN Standards:

- EN 55103-1:2009+A1:2012
- EN 55103-2:2009
- EN61000-3-2:2006+A1:2009+A2:2009
- EN61000-3-3:2013
- EN60065:2002+A1:2006+A11:2008+A2:2010+A12:2011

CE mark was affixed on the products: 2007-2017

The product(s) which are defined herein was (were) manufactured under the conditions of the European Union directive and standards. Also, this product(s) responsibility is under our firm's guarantee.

Manufacturer
Stamp & Signature

Name surname: Mac Skinner
Title: Owner/COO
Date: 1/1/2017

Two-Rock Amplifiers

619 MARTIN AVENUE, SUITE 6

ROHNERT PARK, CA 94928

707-584-8663

www.two-rock.com

SERIAL NUMBER: _____