Two-Rock

Classic Reverb Signature

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.

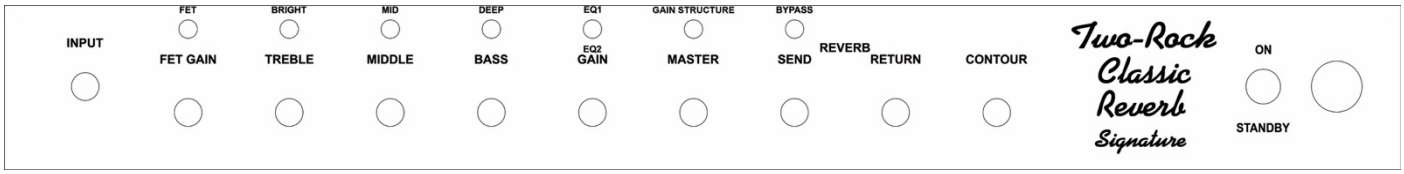
Please take the time to read this manual. We hope it will answer any questions that you may have.

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



1. **Input Jack**- High impedance input to the amplifier. Plug in your instrument here.

2. **FET Gain-** The FET (Field Effect Transistor) feature consists of a single stage high impedance preamp/buffer. This feature can be switched in and out via the front panel switch ("ON" is "up" position) or footswitch. This mode offers an additional buffered gain stage, and can be used to buffer the input from high output pickups or increase the signal of low output pickups. The FET GAIN control controls the amount of signal fed to the following stage(s) {gain control}

3. **FET Switch-** Enables or defeats the FET feature. ("ON" is "up" position)

4. **Treble Control**- 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.

5. **Bright Switch-** Boosts the high frequency response. This is most effective when the input gain is set at 12 o'clock or lower. The effect is less dramatic as the input gain control is adjusted past the 12 o'clock position.

6. **Middle Control**- Adjusts the mid-range response. In the full counter-clockwise position, the tone will be somewhat "scooped" of mid-range response, emphasizing the highs and lows. In the full clockwise position, mid-range frequencies are allowed to pass to the next gain stage.

7. **Mid Switch- Boosts** the mid range frequency response.

8. **Bass Control**- Adjusts the bass response. In the full counter-clockwise position, low frequencies are cut. In addition, the response of the treble and mid-range controls is greatly reduced. In the full clockwise position, low frequencies are allowed to pass to the next gain stage.

9. **Deep Switch-** Boosts the low and low-mid frequencies. This is a low frequency contour switch, changing the low and low-mid response.

10. **Gain**- Adjusts the overall gain of the amplifier. Start with this control in the 12 o'clock position.

11. **Master-** Adjusts the output level of the amplifier.

12. **EQ1/EQ2- This** switch allows you to choose between 2 completely different equalization settings. E**Q1** is a lower gain setting, with extended midrange and bass available when used in conjunction with the middle and bass controls as well as the deep switch. This setting is suitable for any style requiring a pure clean tone with a nice round bottom and plenty of headroom. **EQ2** is a higher gain setting.

13. **Reverb Send**- The reverb drive control determines the amount of signal applied to the reverb tank. Low settings will create a very open, small room reverb effect with a short decay time. Advancing the control clockwise increases the signal applied to the driver, and a very saturated effect with a sharp attack and a long decay can be obtained.

14. **Reverb Return-** The reverb return control mixes the reverb effect signal with the dry signal. At full counterclockwise rotation, the reverb effect is defeated. Using the return control in conjunction with the reverb drive control, a wide range of natural reverb effects can be produced.

15. **Gain Structure-** The 3 position gain structure switch changes the sensitivity and overall feel of the preamp. In the down position, the amp feels similar to a vintage blackface, the middle position is much like the Two-Rock Matt Schofield Signature front end with a hotter input stage, and the full up position is our traditional Two-Rock front-end.

16. **Bypass Switch**- This switch bypasses the tone controls, increasing both level and mid-range response. To enable footswitch control of this function, switch must be in the down position.

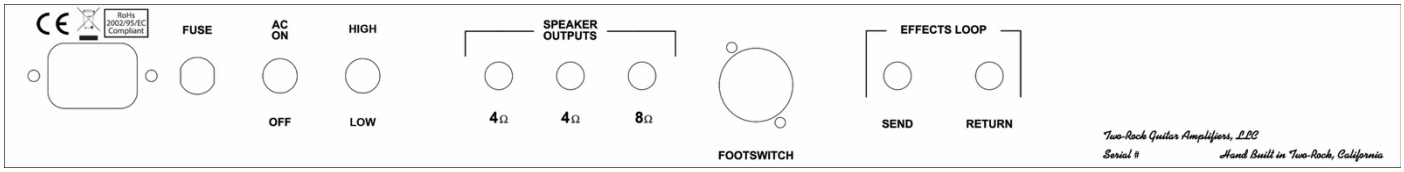
17. **Contour Control**- The contour control is an active wide band sweep. In the 12 o'clock position, the amps' frequency response is flat. Counterclockwise rotation reduces high end response and increases low frequencies. Clockwise rotation decreases low end and increases the high frequency response. This control is very useful for maintaining preamp tone control settings, while allowing a global adjustment to compensate for differences in room acoustics, speaker cabinets, or bright to dark guitars (PRS Humbucker to Strat, for example). This control also actively reduces the articulation available, allowing a softer setting, or extremely open and revealing, depending on your individual style and requirements.

18. **Stand-by Switch**- Should be in the "down" or "stand-by" position when you apply power to the unit. After a few seconds, place the switch in the "up" position to use the amplifier. You may leave the unit "powered up" and place this switch in the "stand-by" position to mute the output.

19. **Indicator Lamp**- This lamp will illuminate when the power switch is in the "up" position, indicating the unit is receiving A/C power.

NOTE: All switches are ON in the "up" position (except reverb switch, see description)

Rear Panel Functions



1. **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, ONLY.

2. **Fuse**- See Fuse Chart

3. **Power Switch**-Turns power on.

5. **Power Selector** - On 50 Watt Models, the HIGH power mode is fixed-bias and the LOW power is cathode biased. While the Low setting may sound louder, you'll notice a significant headroom decrease. On 100 watt (4x6L6) models, the HIGH power mode is100 watts, the LOW power mode is 50 watts. With the 100 watt Classic Reverb Signature's output transformer, when switching from 100 to 50 watts, the transformer will compensate for impedance differences so you will not have to change impedances.

6. **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.

7. **Footswitch Jack**-The footswitch connects here. The FET function, tone bypass, and Reverb defeat functions can be activated via the footswitch. The respective front panel switches (FET and bypass) must be in the "off," or down position, to enable the footswitch functions.

8. **Effects Send**-Use this jack to send the amplifiers signal to outboard effects.

9. **Effects Return**-Use this jack to connect the output of your effects to the amplifier.

10. **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 100 Volt Fuses:	**Domestic Fuses:**	**Export 220, 230, 240**
3.5 - 100 Watt 4x6L6	3.25 - 100 Watt 4x6L6	1.6 - 100 Watt 4x6L6
2.8 - 50 Watt 2x6L6	2.5 - 50 Watt 2x6L6	1.25 - 50 Watt 2x6L6

FOOTSWITCH

FET -Blue LED
BYPASS -Red LED
REVERB DEFEAT -Green LED

TUBE COMPLIMENT

V1- Preamp 12AX7
V2- Reverb send, reverb return 12AX7
V3- Reverb drive 12AT7
V4- Reverb /clean mix 12AX7
V5- Phase inverter 12AX7
V6, V7- 6L6WGC, Output
V8, V9- 6L6WGC, Output (100 Watt) ; 5AR4 Rectifier (50 Watt)
V6-V9- 6V6, Output 40 watt versions

Each fine production tube is tested and matched to our exacting specifications. External bias adjustment and test points are located on the chassis near the output tube sockets. A digital voltmeter and small screwdriver are required for bias adjustment.

BIAS ADJUSTMENTS:

1. Power up unit and connect proper speaker load.
2. Set master volumes and effects return controls to zero.
3. **DO NOT** apply any signal to the input during the biasing procedure!
4. Take unit off standby and allow a few seconds for the circuit to stabilize.
5. Set voltmeter to Millivolt scale (or lowest volt scale 60 millivolts=.060 volts.)
6. With meter grounded to chassis and + probe at test point, measure voltage. A reading of 0.055 to 0.060 volts is normal for 50 Watt amplifiers with (2) 6L6's. A reading of 0.115 to 0.120 volts is normal for 100 Watt amplifiers with (4) 6L6's. A reading of 0.085 to 0.090 volts is normal for 40 Watt amplifiers with (4) 6V6's. If not in this range, adjust by turning bias screw SLOWLY a small amount. **Do not set above listed range!**

Keep in mind that tubes vary in quality, and some tubes can handle upwards of 40 ma each (a reading at the test point of .080 for 2 6L6s!) However, to be on the safe side, use the above as a guide.

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)
FAX: 1(707)584-8661

ADDRESS: Two-Rock
619 Martin Avenue, Suite 6
Rohnert Park, CA 94928

SERVICE: service@two-rock.com

WEB: www.two-rock.com

PRECAUTIONS:

DO NOT expose to rain or any other moisture.
DO NOT use cleaning solvents. Wipe exterior with a clean, dry cloth only.
Refer servicing to a qualified service technician.

CE

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

619 MARTIN AVENUE, SUITE 6
ROHNERT PARK, CA 94928
707-584-8663
www.two-rock.com

SERIAL NUMBER: _____