

*Two-Rock*

*Studio*

*50-15*

OWNER'S MANUAL

Dear Customer,

Thank you for your purchase of a *Two-Rock* amplifier from Premier Builders Guild.

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.

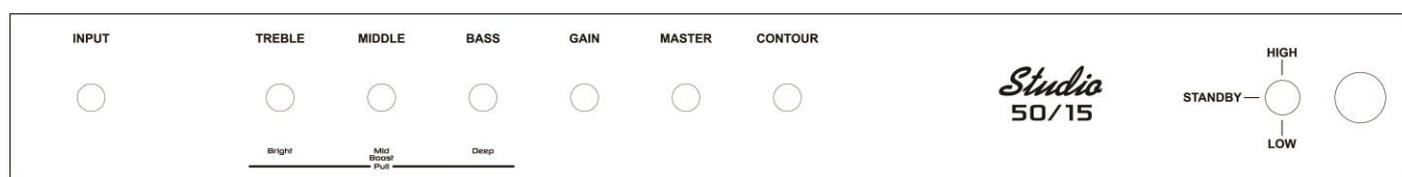
Please take the time to read this manual. We hope it will answer any questions that you may have.

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**

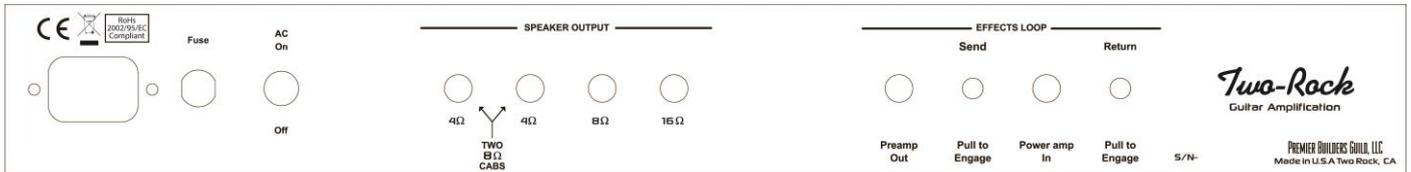
1. Read these instructions
2. Keep these instructions
3. Heed all warnings
4. Follow all instructions
5. Do not use this apparatus near water
6. Clean only with dry cloth
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions
8. Do not install near any heat 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. Push/Pull Treble Control-** Adjusts the high frequency response. In the full counter-clockwise position, high frequencies are cut. In the full clockwise position, high frequencies are allowed to pass to the gain stage. When the knob is in the “out” position, the high frequency response is boosted. This is most effective when the input gain is set at 12 o’clock or lower. The effect is less dramatic as the gain control is adjusted past the 12 o’clock position.
- 3. Push/Pull Mid Boost 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 gain stage. When the knob is in the “out” position, the EQ section is passively bypassed boosting the natural high and mid frequencies of the guitar. It also increases the amount of input signal that drives the gain stage.
- 4. Push/Pull 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 gain stage. When the knob is in the “out” position, the low and low-mid frequencies are boosted. This is a low frequency contour switch, changing the low and low-mid response.
- 5. Gain-** Adjusts the overall gain of the amplifier. Start with this control in the 12 o’clock position.
- 6. Master Volume-** Adjusts the output level of the amplifier. Also acts as the send level control for any effects inserted in the loop when the loop is in its passive state
- 7. Contour-** 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.
- 8. Standby-** This switch has 3 positions, High-Standby-Low. Each position is tied to its own bias control. This is located under the amp; refer to tube compliment/Bias chart.

# 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.
2. **Fuse**- See Fuse Chart
3. **Power Switch**- Turns power on.
4. **Speaker Output Jacks**- There are 4 speaker output jacks. Nominal impedance is 4-8-16 ohms. The output section has the ability to run a set of speaker loads in parallel. Dual 4 ohm jacks can be used to take two 8ohm speaker loads and combine them to a 4 ohm load. **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.
5. **Effects Loop**- The loop is a multi-function series circuit with optional buffers on either side of the effects chain. In its passive mode it acts as only a series insertion point. Upon activation either the **Send** or **Return** buffers can be activated and the level that passes through them adjusted. The buffers will help mitigate any line level loss and impedance mismatch that could incur with non-buffered (True-Bypass) effects.
  - Send Jack** - Sends signal to effects. (1/4" Mono Jack)
  - Send Control** – To engage the effect buffer the pot must be pulled out. Once engaged the control will adjust the amount of signal that passes from the preamp stage to the Effect(s). Adjust this control to keep clipping down within effect signal chain. A unity setting with nothing inserted into loop is 3 o'clock.
  - Return Jack** -Signal from effects is reintroduced into the amplifier here. (1/4" Mono Jack)
  - Return Control** - To engage the effect buffer the pot must be pulled out. Once engaged the control will adjust the amount of signal that passes from the effect(s) to the power stage. Adjusting this level controls the amount of signal that is reintroduced from effects. Adjust this control to keep clipping within the power stage down. A unity setting with nothing inserted into loop is around 10 o'clock.
9. **S/N**- Your serial number is located here.

# Fuse Chart

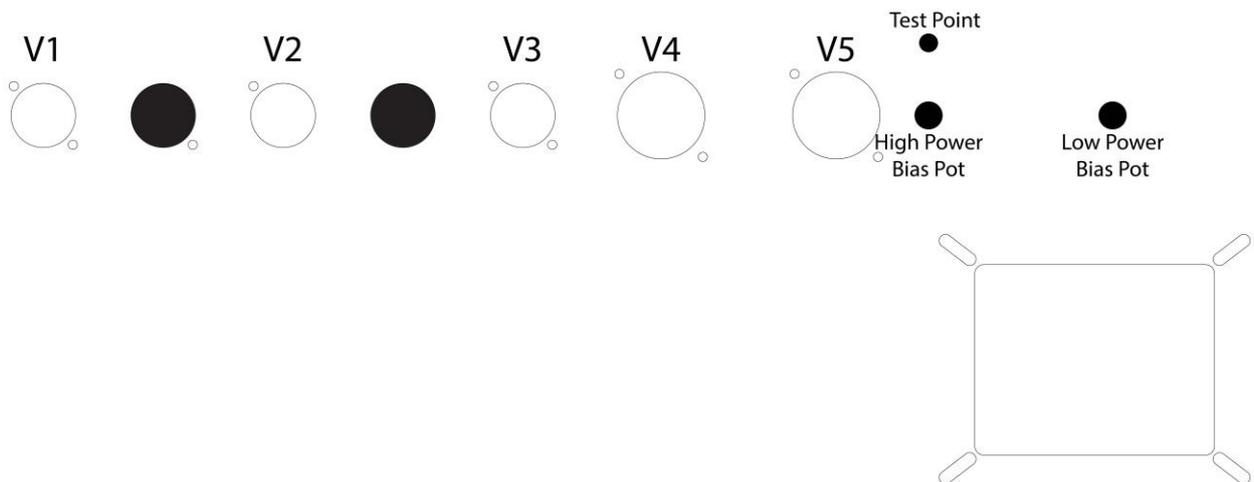
All Fuses are 3AG Type 250 Volt, SLO-BLO

**Export 100 Volt**  
2.5 - 50 Watt

**Domestic Fuses:**  
2.5 - 50 Watt

**Export 220, 230, 240 Fuses:**  
1.6 - 50 Watt

## (Tube Complement/Bias Controls)



V1- 12AX7, Input and Gain

V2- 12AX7, Effect Send and Return Buffer

V3- 12AX7, Phase Inverter

V4-V5 – 6L6wgc-STR Power Tubes

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 ADJUSTMENT PROCEDURE:**

- Power up unit and connect proper speaker load
  - DO NOT have an instrument connected to the input during the biasing procedure!
  - Take unit off standby and allow a few seconds for the circuit to stabilize.
  - Set multi-meter to read DC Volts
  - With meter grounded to chassis and + probe inserted into test point, measure voltage.
  - Using a small flat head screwdriver, insert into Bias pot and turn slowly adjusting Bias level
- It is recommended to only use exact replacement tubes similar to what is installed at the factory. Be careful when deciding to install other types of 6L6, 6V6, or EL-34 based tubes. Not all have the same specs and some can't handle the plate voltage of the amplifier.

To bias properly make sure the amp is the correct power setting. High Power and Low Power bias pots are tied to the Standby switch and the 2 Power selections.

Bias Ranges: Are measured and set in Volts. But can be measured and set in milliamps.

6L6 type tubes: .060V to .070V for 50watt      Factory Setting: .064V

Do not set bias higher than recommend levels as it can lead to tube failure or failure within the amplifier!

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

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

*Two-Rock* amplifiers are brought to you by Premier Builders Guild.

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)

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SERVICE: [service@two-rock.com](mailto:service@two-rock.com)

WEB: [www.two-rock.com](http://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.

This is a product of  
Premier Builders Guild

*Two-Rock*

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ROHNERT PARK, CA 94928  
707-584-8663  
[www.two-rock.com](http://www.two-rock.com)

SERIAL NUMBER: \_\_\_\_\_

*Two-Rock*

Guitar Amplification  
619 Martin Ave. Ste 6  
Rohnert Park, CA 94928  
(707)584-8663



**DECLARATION OF CONFORMITY**  
**Report #R070212**

We, Two-Rock Amplifiers, in coordination with CES Laboratories, declare, taking this declaration under our total responsibility, that the below models are in conformity with the provisions of the following EC Directive(s) when installed in accordance with the installation instructions contained in the product documentation:

2006/95/EEC	Low Voltage Directive
2004/108/EEC	EMC Directive
2011/65/EEC	RoHS-Directive

And that the standards and/or technical specifications have been applied to the following families of products:

Custom Reverb	Jet
Studio Pro	Sensor
Eric Gales	EXO-15
Classic Reverb	Bi-Onyx
TS-1	Classic Type Series
Gain Master	Matt Schofield

Signature:

Name and Title: Mac Skinner / General Manager

February 12, 2007

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President  
CES LABORATORIES

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