

*Two-Rock*

*Traditional Clean*

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.

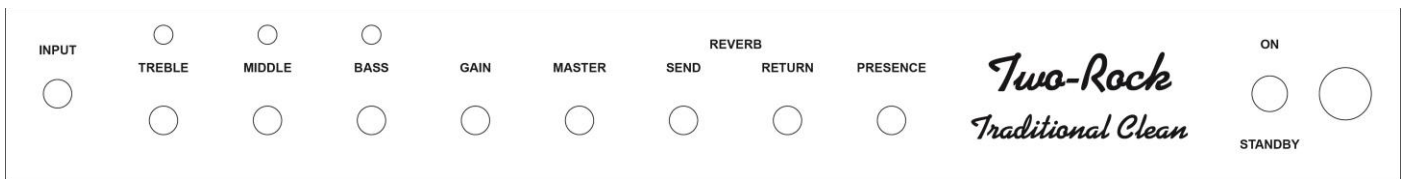
Please take the time to read this manual. We hope it will answer any questions that you may have.

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. **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.
3. **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.
4. **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.
5. **Mid Switch**- Boosts the mid range frequency response.
6. **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.
7. **Deep Switch**- Boosts the low and low-mid frequencies. This is a low frequency contour switch, changing the low and low-mid response.
8. **Gain**- Adjusts the overall gain of the amplifier. Start with this control in the 12 o'clock position.
9. **Master**- Adjusts the output level of the amplifier.
10. **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.
11. **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.

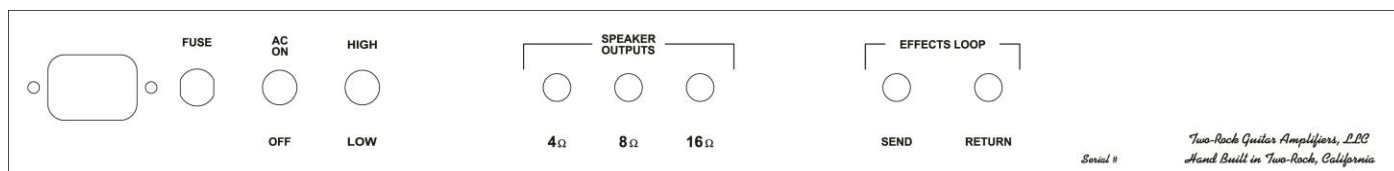
12. **Presence** - Adjusts the contour of high-frequency response. The high-frequency response will increase as you advance the control clockwise

13. **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.

14. **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

# 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.
4. **Power Selector HIGH/LOW** - On 100 watt (4x6L6) models, the HIGH power mode is 100 watts, the LOW power mode is 50 watts. On 40 watt (4x6V6) models, the HIGH power mode is 40 watts, the LOW power mode is 20 watts. With this amplifier's output transformer, when switching power ranges, the transformer will compensate for impedance differences so you will not have to change impedances.
5. **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.
6. **Effects Send**-Use this jack to send the amplifier's signal to outboard effects.
7. **Effects Return**-Use this jack to connect the output of your effects to the amplifier.
8. **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:

3.5 - 100 Watt 4x6L6  
2.8 - 50 Watt 2x6L6

### Domestic Fuses:

3.25 - 100 Watt 4x6L6  
2.5 - 50 Watt 2x6L6

### Export 220, 230, 240

1.6 - 100 Watt 4x6L6  
1.25 - 50 Watt 2x6L6

# TUBE COMPLIMENT

V1- Preamp 12AX7

V2- Reverb send, reverb return 12AX7

V3- Reverb drive 12AT7

V4- Reverb /clean mix 12AX7

V5- Phase inverter 12AX7

V8, V9- 6L6WGC, Output (100 Watt) / 6V6GT (40 Watt)

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.

## IMPORTANT: BIAS NOTE FOR *Traditional Clean* AMPLIFIERS

***These amps are biased differently than our other models.  
Please check proper bias settings for your wattage.***

### **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 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 30 millivolts=0.03 volts.)
6. With meter grounded to chassis and + probe at test point, measure voltage. A reading of 0.03 to 0.032 volts is normal for 100 AND 50 Watt amplifiers. If not in this range, adjust by turning bias screw SLOWLY a small amount. **Do not set above .033!**
7. For 6V6 loaded amplifiers, a reading of 0.022 to 0.025 is normal.

Settings higher than the recommendation can cause premature tube wear and possibly damage to the amplifier.

**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!

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#### 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.

*Two-Rock*

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