

# *Two-Rock*

## *Ruby*

Owner's Manual

*Thank you for your purchase of a  
**Two-Rock** amplifier from K&M Analog Designs, LLC.*

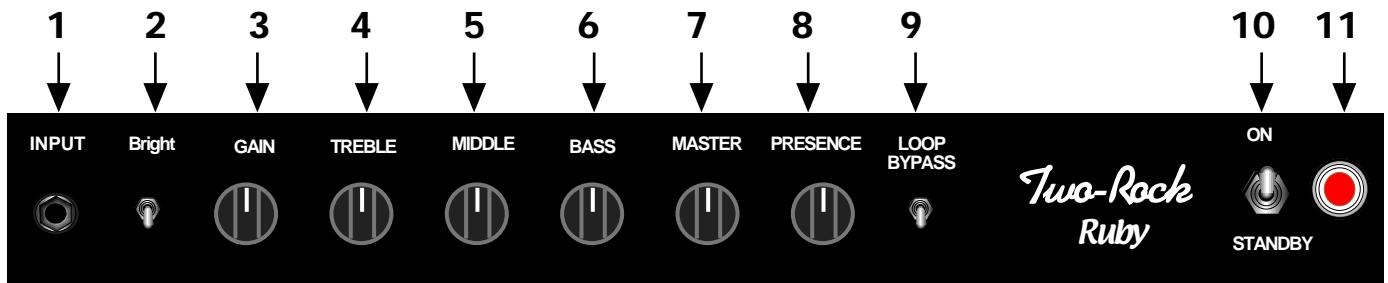
*As a discerning guitarist, you know the road to great  
tone begins with great components.*

*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 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.*

# FRONT PANEL FUNCTIONS

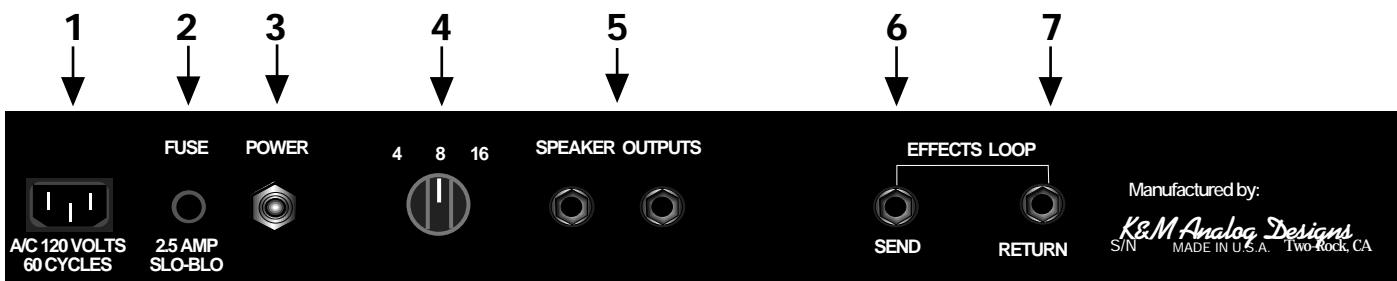


1. **INPUT JACK**- High impedance input to the amplifier. Plug in your instrument here.
2. **BRIGHT SWITCH**- Boosts the high frequency response. This is most effective when the input gain is set at 12 o'clock or lower. The effect is less dramatic as the input gain control is adjusted past the 12 o'clock position.
3. **INPUT GAIN**- Adjusts the overall gain of the amplifier. Start with this control in the 12 o'clock position. Keep in mind that the amount of gain set here determines the signal level feeding the lead channel. Low gain settings of this control will require higher lead gain settings for the same amount of overdrive.
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. **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.
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. **MASTER** - Adjusts the overall output level of the amplifier

8. **PRESENCE CONTROL**- Adjusts the contour of high-frequency response. The high-frequency response will increase as you advance the control clockwise.
9. **LOOP BYPASS**- This switch bypasses the effects loop.
10. **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



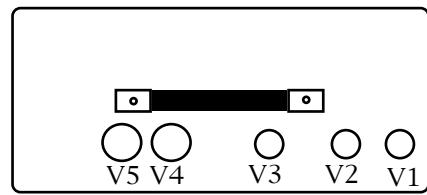
- 1. A/C INPUT**- Connects the amplifier to A/C power via the power cord supplied. Unless otherwise specified, your amplifier is designed to operate on 120 volts A/C, 60 cycles.
- 2. FUSE**- 3 AG Type, slow blow fuse. Refer to the legend below the fuse holder for the proper fuse rating for your amplifier. (50 watt-2.5 amp /100 watt-3.5 amp)
- 3. POWER SWITCH**- Turns the power on.
- 4. INPEADANCE SELECTORI**
- 5. SPEAKER OUTPUT JACKS**- There are 2 speaker output jacks 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 amplifiers signal to outboard effects.
- 7. EFFECTS RETURN**- Use this jack to connect the output of your effects to the amplifier.

## TUBE COMPLEMENT

V1- 12AX7, Pre Amp  
V4- 12AX7, effects  
V3- 12AX7, Phase inverter  
V4, V5- EL34, Output

### The Tube Location

Front



Rear

Each fine production tube is tested and matched to our exacting specifications. Individual bias controls are provided for each output, as well as phase-balance adjustment. This ensures maximum tube life, power, and performance.

**NOTE:** Please do not attempt to adjust tube bias or phase balance. Refer service to qualified service person only.

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

*K&M Analog Designs* amplifiers are brought to you by Bill Krinard and Joe Mloganoski. 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 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.

*This is a product of*

*K & M Analog Designs, LLC*  
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Rohnert Park, CA 94928

**Serial Number:**\_\_\_\_\_