

Two-Rock
Onyx

Owner's Manual

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

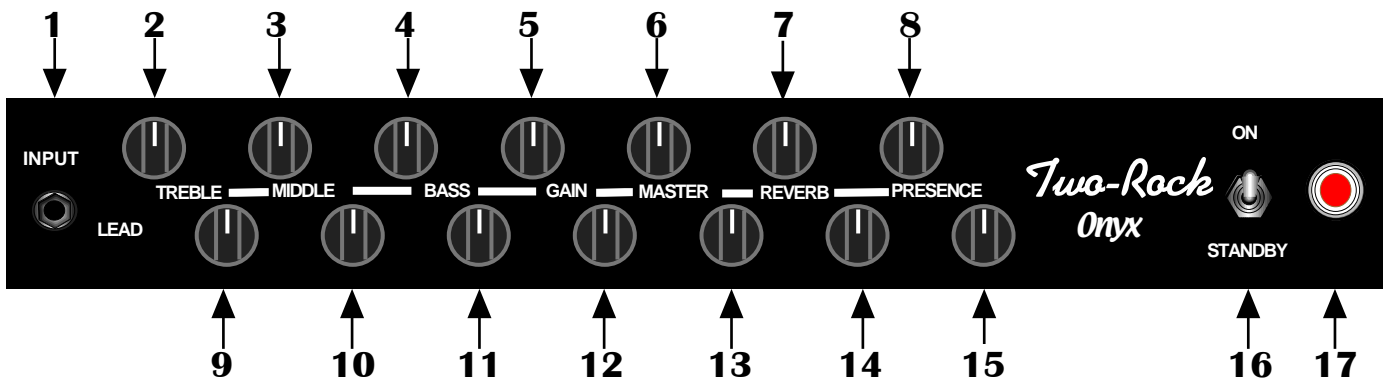
*As a discerning guitarist, you know the road to great
tone begins with great components.*

*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.

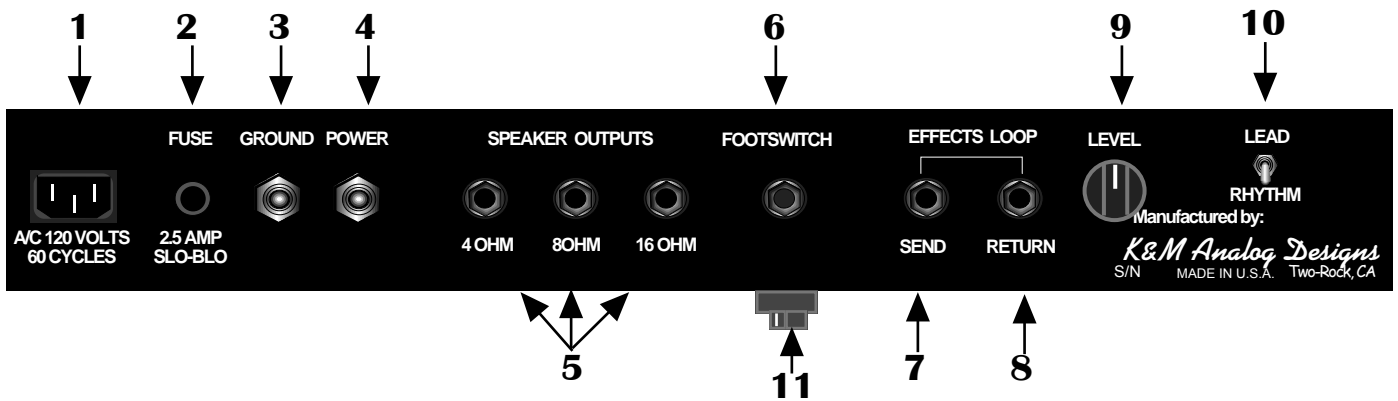
THERE ARE 2 ROWS OF CONTROLS. THE TOP ROW AFFECTS ONLY THE CLEAN CHANNEL. THE BOTTOM ROW IS IDENTICAL TO THE TOP ROW. THE BOTTOM ROW AFFECTS ONLY THE LEAD CHANNEL.

- 2/9. **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.
- 3/10. **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.
- 4/11. **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.
- 5/12. **GAIN- ADJUSTS**- the overall gain of the channel selected. Start with this control in the 12 o'clock position on the clean channel(5), and 8 or 9 o'clock on the lead channel(12).
- 6/13. **MASTER** - Adjusts the output level of clean channel(6) and the lead channel (13)

- 7/14 **REVERB- MIXES-** the dry signal with a high quality spring-type reverberation effect. This effect is defeated with the control in the full counter-clockwise position. The reverb levels are completely independent.
- 8/15. **PRESENCE CONTROL-** Adjusts the contour of high-frequency response. The high-frequency response will increase as you advance the control clockwise.
16. **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.
17. **INDICATOR LAMP-** This lamp will illuminate when the power switch is in the "up" position, indicating the unit is receiving A/C power.

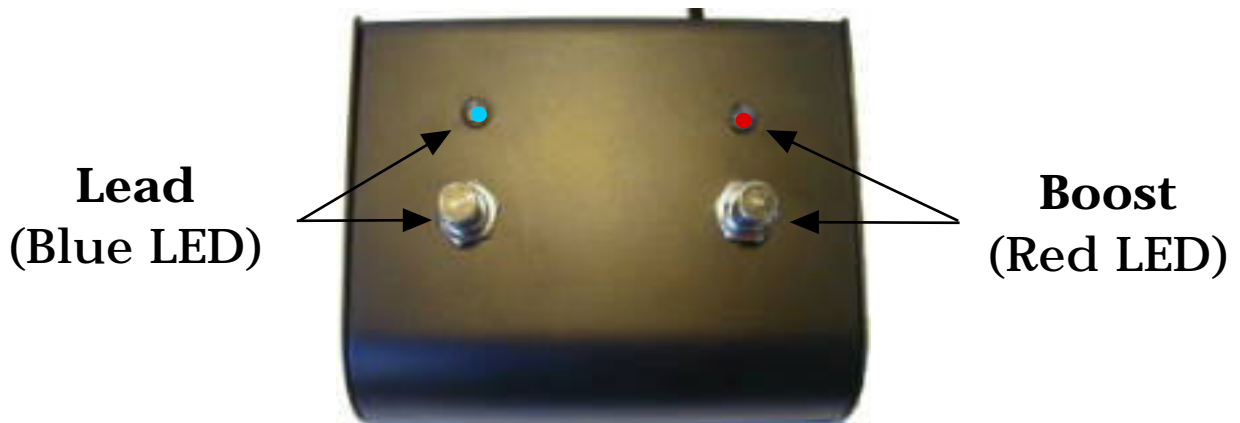
NOTE: All switches are ON in the "up" position.

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. **GROUND SWITCH**- Normally left in the center (Off) position. If you encounter excessive A/C hum or ground loop noise, try the switch in the other 2 positions.
4. **POWER SWITCH**- Turns the power on.
5. **SPEAKER OUTPUT JACKS**- There are 3 speaker output jacks- 4,8 and 16 ohm. **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. **FOOTSWITCH JACK**- Connect the foot switch assembly here to enable remote switching of the lead/rhythm and bypass functions.
7. **EFFECTS SEND**- Use this jack to send the amplifiers signal to outboard effects.
8. **EFFECTS RETURN**- Use this jack to connect the output of your effects to the amplifier.
9. **EFFECTS LEVEL**- Adjusts the return signal level. It also acts as a master volume control. Do not set fully counter-clockwise, as this will shut off signal to the output section, resulting in no output level. Normally this control should be set at the 12 o'clock position.
10. **LEAD/RHYTHM SWITCH**- Selects either the clean or lead channel when footswitch is not in use. This switch must be left in the "down" (rhythm) position to enable footswitch function.
11. **"SOLO" OR "BOOST" LEVEL**- Adjusts the amount of boost for either channel when the boost function is selected from the footswitch. This feature allows 2 seperate levels for each channel, allowing the user to dial in just the right amount of volume increase for soloing, etc.

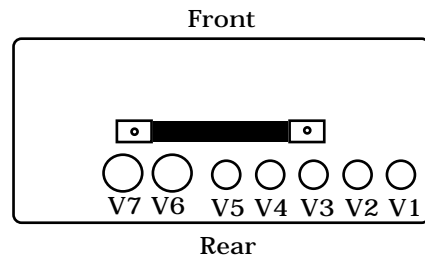
FOOT SWITCH



TUBE COMPLEMENT

- V1- 12AX7, Rhythm channel
- V2- 12AX7, Lead channel
- V3- 5751/12AT7, Reverb driver
- V4- 12AX7, Reverb / effects
- V5- 12AX7, Phase inverter
- V6, V7- 7581, Output

The Tube Location



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.

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Serial Number: _____