

Two-Rock

Eric Gales Signature

OWNER'S MANUAL

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

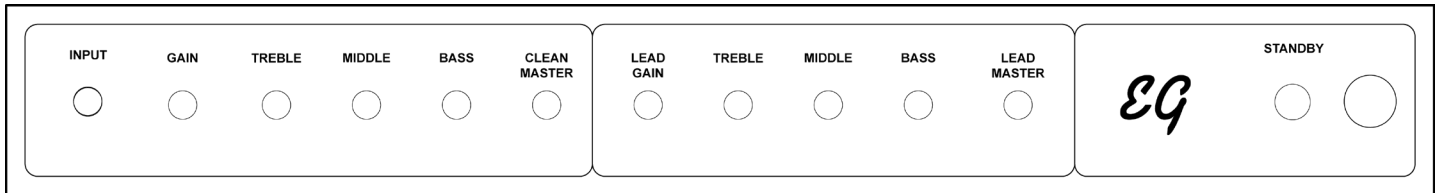
As a discerning guitarist, you know the road to great tone begins with great components.

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 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.

Front Panel Functions



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

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.

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.

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.

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.

Clean Channel Master Volume- Adjusts the output level of the clean channel.

Lead Gain- Adjusts the input level (gain) of the lead channel.

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.

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Lead Master- Adjusts the output level of the lead channel.

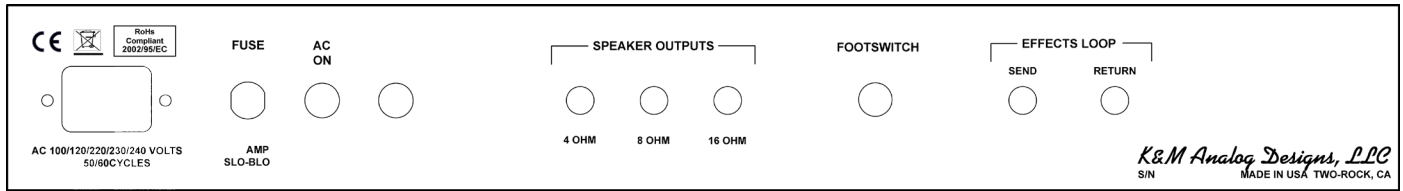
Stand-by Switch- Should be in the "down" or "stand-by" position when you apply power to the unit. After a few seconds, place the switch in the "up" position to use the amplifier. You may leave the unit "powered up" and place this switch in the "stand-by" position to mute the output.

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

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Rear Panel Functions



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.

Fuse- See Fuse Chart

Power Switch- Turns power on.

Power Selector- This switch selects between two power levels (if equipped.) On 50 Watt models, the down position operates the amp in class A/B, the up position is class A. On 100 Watt models, the low position 70 Watts.

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.

Footswitch Jack- The footswitch connects here. The clean/lead and tone bypass functions can only be activated via the footswitch.

- Lead Channel Switch- Sends the instrument signal through the lead circuit, adding extra stages of gain to the signal and enabling the lead gain and lead master controls. To enable foot switch control of this function, switch must be in the down position.
- 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.

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

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

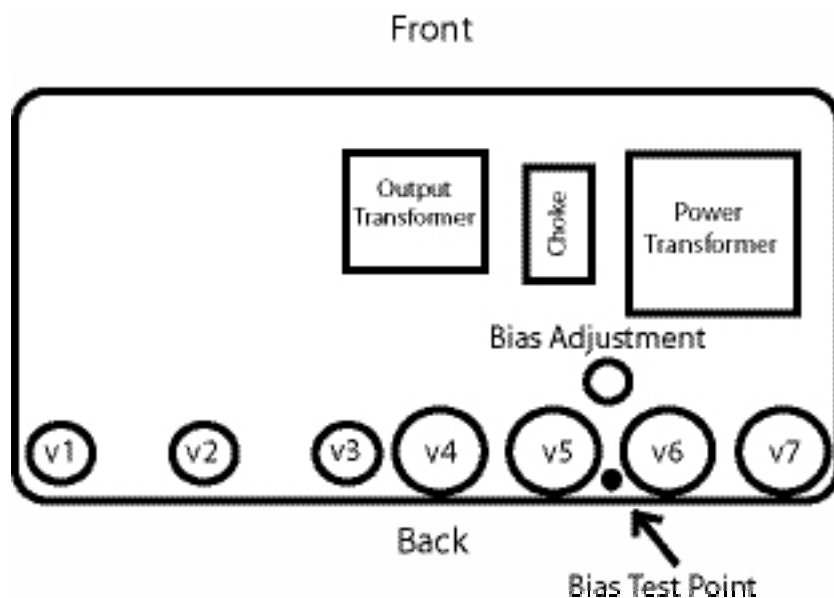
NOTE: This model does not utilize a full (input and output) buffered effects loop. For best results, you will need an Effects Loop Interface (ELI1 or ELI2) or similar unit.

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.

NOTE: All switches are ON in the “up” position

Tube Complement

V1- 12AX7, Rhythm channel
V2- 12AX7, Lead Channel
V3- 12AX7. Phase Inverter
V4-V7- 6L6GC, Output OR EL34
*V6, V7- 5AR4 (50 Watt Tube Rectified)



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:

Power up unit and connect proper speaker load.

Set master volumes and effects return controls to zero.

DO NOT apply any signal to the input during the biasing procedure!

Take unit off standby and allow a few seconds for the circuit to stabilize.

Set voltmeter to Millivolt scale (or lowest volt scale 60 millivolts=.060 volts.)

With meter grounded to chassis and + probe at test point, measure voltage.

A reading of 0.100 to 0.120 volts is normal for 100 Watt amplifiers with (4) 6L6's.

Do not set above .140!

For other tube types (5881, 6550, EL34) check with the manufacturer or contact us for recommendations.

Settings higher than .130 with 6L6 tubes may cause premature tube wear and possibly damage the amplifier.

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 .160!) 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.

Fuse Chart

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

Export 100 Volt

3.5- 100 Watt Signature

2.8- 50 Watt Signature

Domestic Fuses:

3.25- 100 Watt Signature

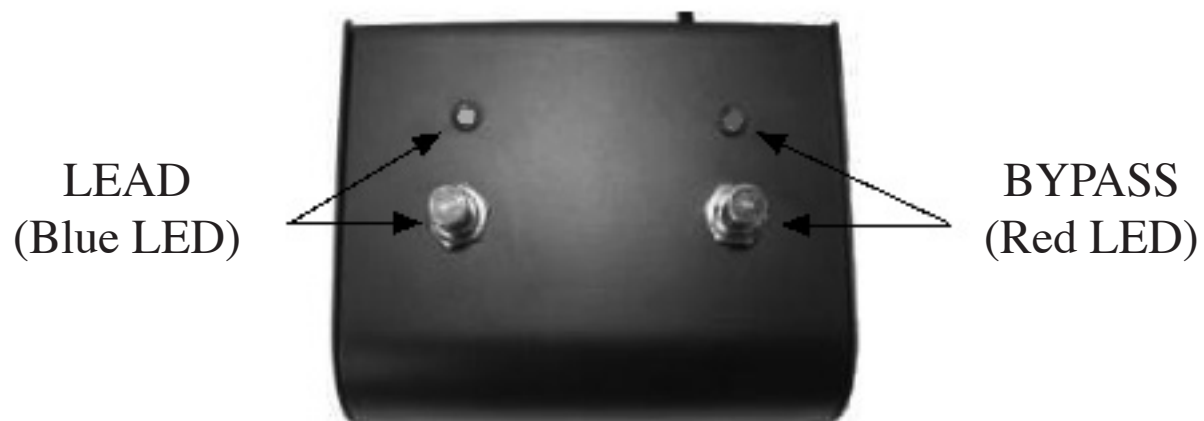
2.5- 50 Watt Signature

Export 220, 230, 240 Fuses:

1.6- 100 Watt Signature

1.25- 50 Watt Signature

Footswitch Functions



LEAD - BLUE LED
BYPASS - RED LED

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 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.

This is a product of

K&M Analog Designs, LLC

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SERIAL NUMBER: _____