

Two-Rock

ELI 1

ELI 2

OWNERS MANUAL

Thank you for your purchase of a *Two-Rock* Effects Loop Interface 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 and transparent interface for all outboard effects.

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 product.

Effects Loop Interface Overview

The Two-Rock buffered effects loop interface (ELI) is an effective tool for the guitarist wishing to utilize a myriad of outboard effects with any guitar amplifier having preamp output and power amp input jacks. Although not shown in the interconnect diagrams, the unit can also be used at the front end (preamp) of any guitar amplifier to buffer the signal fed to the amp.

The buffered interface eliminates the insertion loss of effects chains by eliminating impedance mismatches created by various outboard effects units. In addition, compensation for hi frequency signal loss resulting from multiple effects being daisy-chained as well as long cable runs can be implemented.

Signal Processing

There are 2 main sections to the Effects loop interface. The first stage consists of a high impedance vacuum tube buffer with a +20dB signal increase capability as well as a high frequency boost via a bright switch if desired. Signal is then fed to the effects chain.

Signal returning to the unit is processed by a second buffered tube stage with controllable signal level attenuation and an additional bright switch. Virtually any combination of effects, even with long cable runs, can benefit from the correct application of this interface. In addition, tone shaping via EQ and additional gain available can be used to alter or supplement your sound. Experimentation with signal levels is encouraged as there are a variety of settings that prove satisfactory.

Mono Front Panel Functions



Bright Switch- The first “BRIGHT” switch enhances hi frequency response on the input(effect send) side of the buffer.

Effect Input Level-controls the signal level sent to the effect after the buffer stage.

Bright Switch- The second “BRIGHT” switch enhances hi frequency response on the output side of return buffer.

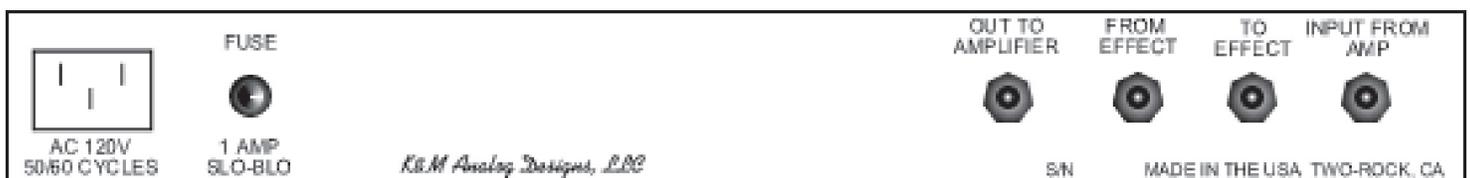
Effect Output Level-controls the buffered signal level from the effect being sent back to the amplifier.

Power Switch- Turns power on.

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.

Mono 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, ONLY.

Fuse- 1 Amp Slo-Blo

OUT TO AMPLIFIER- The buffered effect signal from the unit is sent back to the amplifier via this jack. Connect to the “Effects Return” Jack of your amplifier.

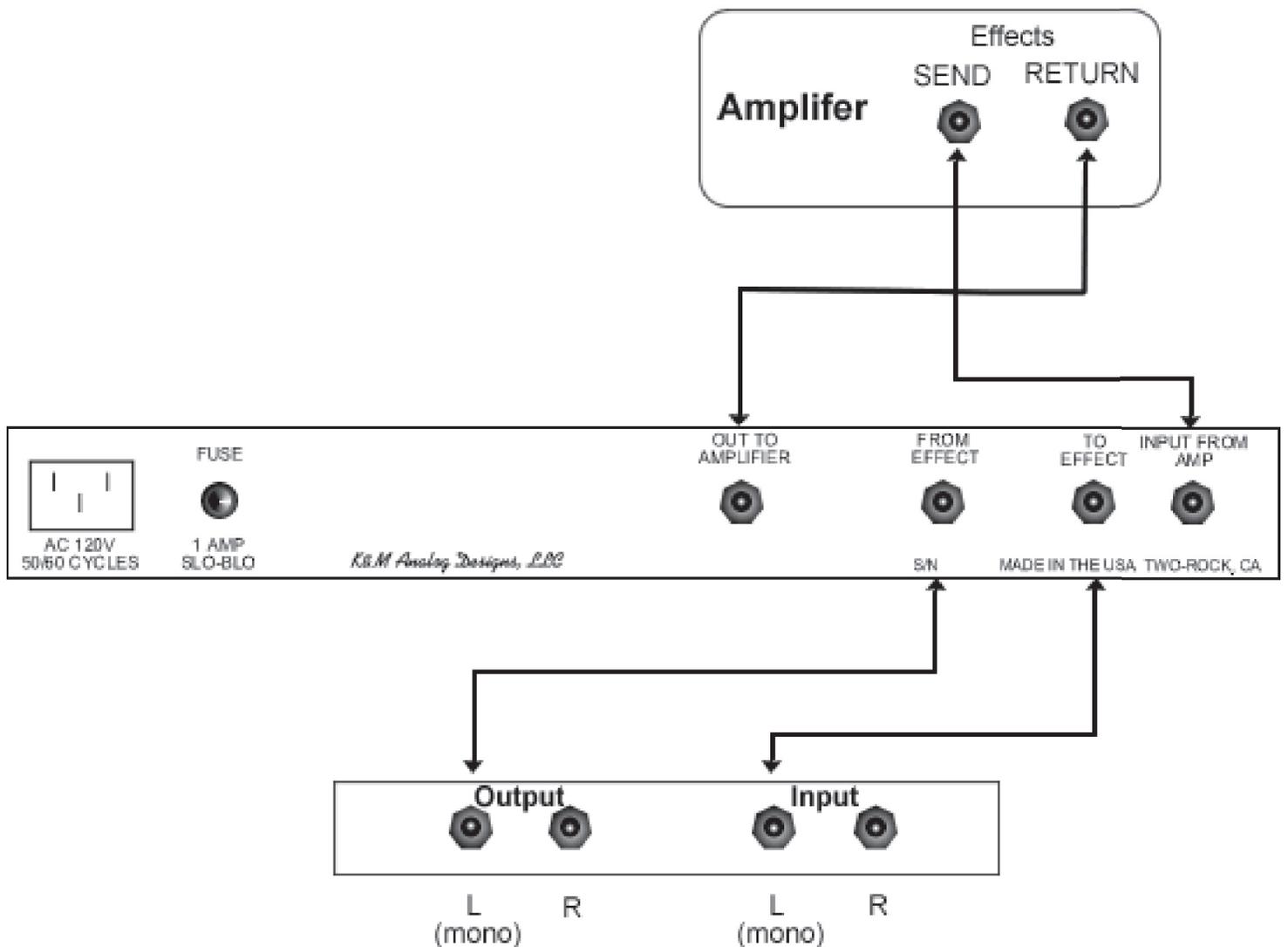
FROM EFFECT- Connect the output of your outboard effect here.

TO EFFECT- This sends a buffered signal to the input of your outboard effects.

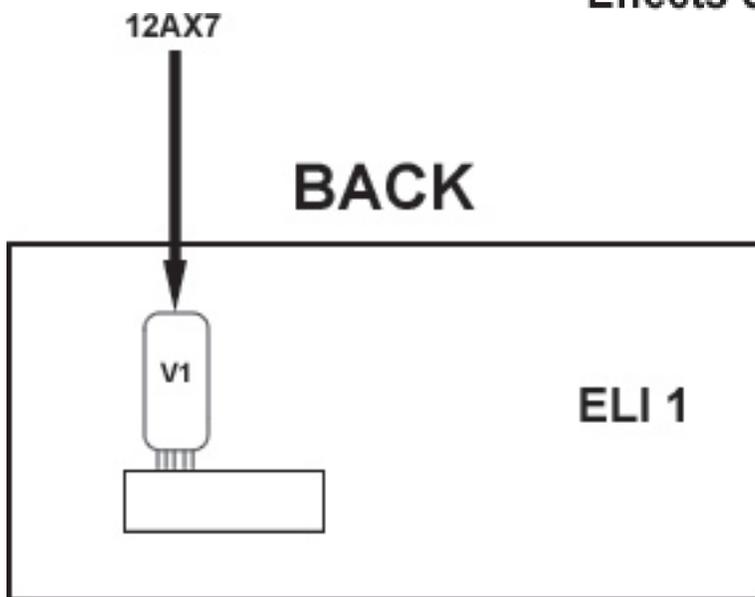
INPUT FROM AMP- this is the dry signal input from the amplifier, generally marked “effects send” on your guitar amp.

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.

ELI 1 Interconnect Diagram



Effects Unit



Tube Location
V1-12AX7

Stereo Front Panel Functions



Bright Switch- The first “BRIGHT” switch enhances hi frequency response on the input(effect send) side of the buffer.

Effect Input Level-controls the signal level sent to the effect after the buffer stage.

Bright Switch- The second “BRIGHT” switch enhances hi frequency response on the output side of return buffer.

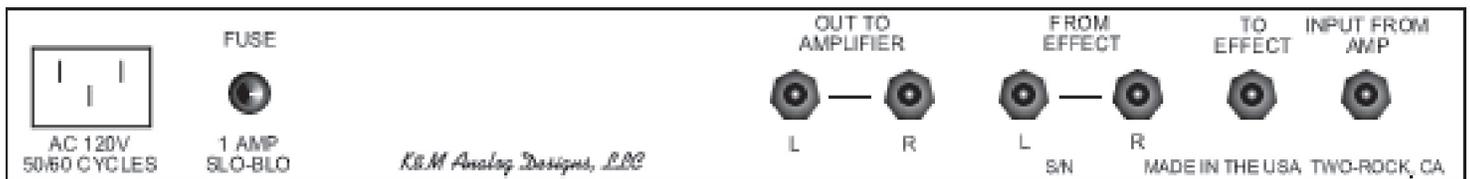
Effect Output Level-controls the buffered signal level from the effect being sent back to the amplifier. If a stereo effect is used, and both left and right signals are returned to the buffer, the level of both the left and right signal can be controlled.

Power Switch- Turns power on.

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.

Stereo Front 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, ONLY.

Fuse- 1 Amp Slo-Bl0

OUT TO AMPLIFIER- The buffered effect signal from the unit is sent back to the amplifier(s) via these jacks. Connect to the “Effects Return” Jack(s) of your amplifier(s).

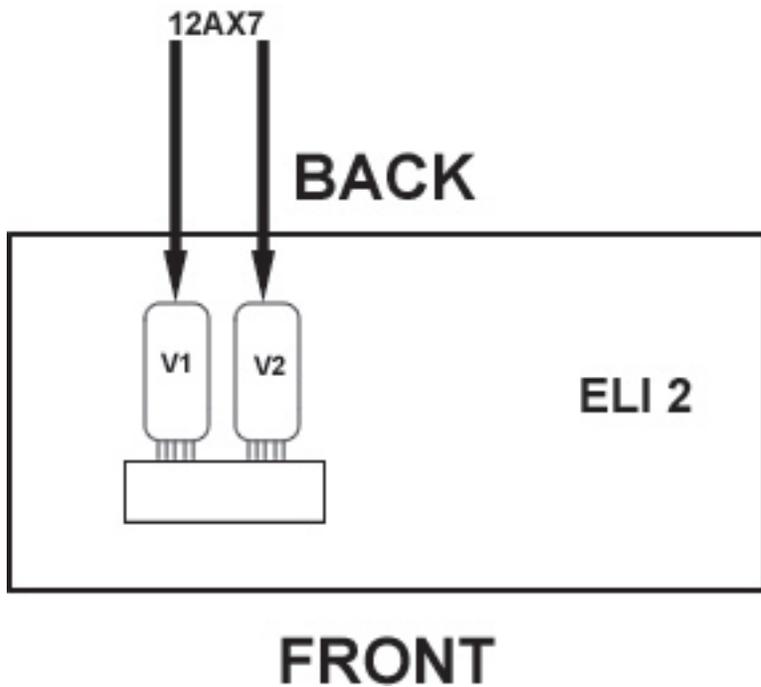
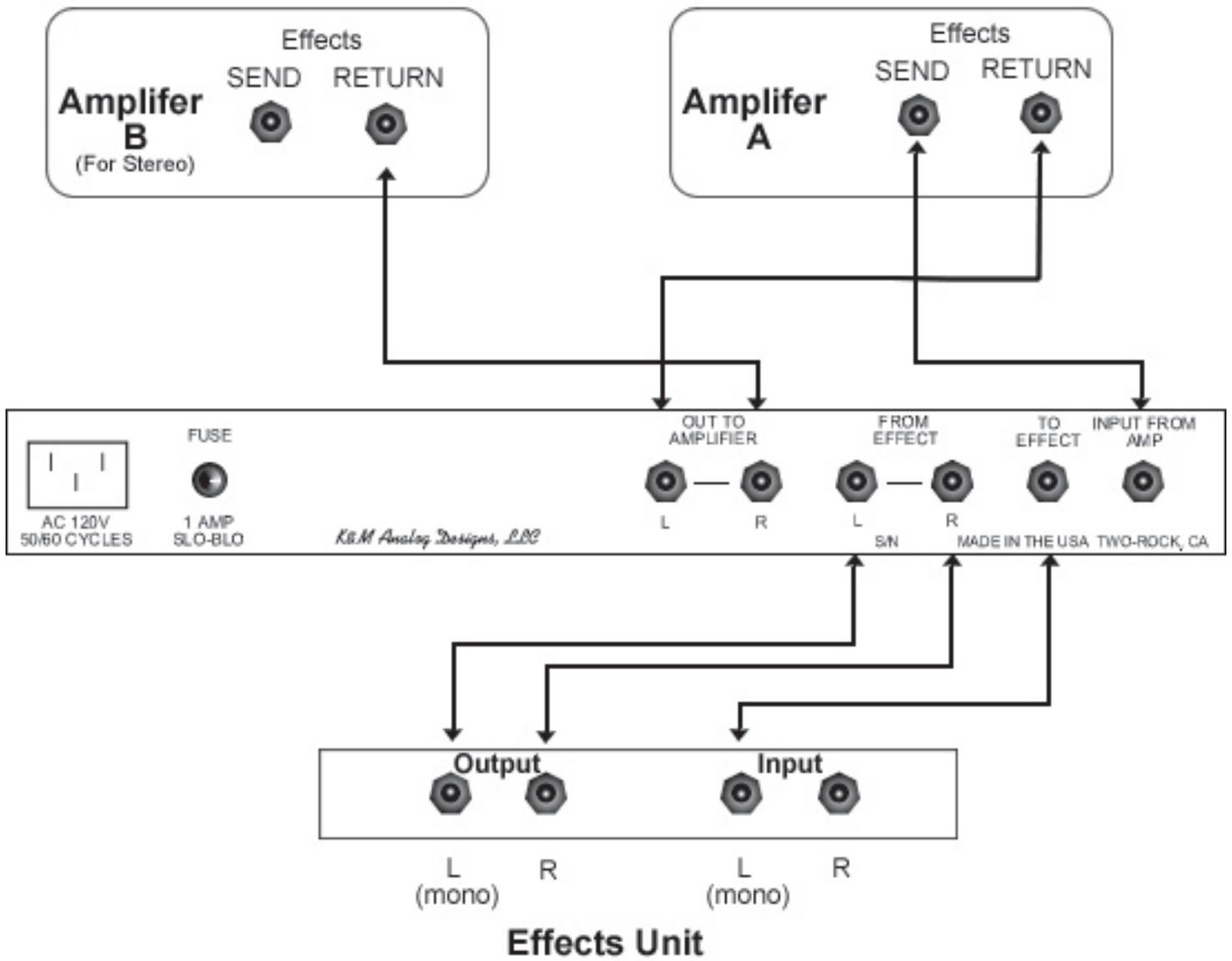
FROM EFFECT- Connect the”Left” and “Right” output of your outboard effect here.

TO EFFECT- This sends a buffered signal to the input of your outboard effects.

INPUT FROM AMP- this is the dry signal input from the amplifier, generally markd “effects send” on your guitar amp.

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.

ELI 2 (Stereo) Interconnect Diagram



Tube Location
 V1-12AX7
 V2-12AX7

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.

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SERIAL NUMBER: _____