

Suhr[®]

Eclipse

User Guide



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Thank you for purchasing the Suhr Eclipse Dual Overdrive/Distortion™ Pedal.

Please take the time to read this manual to get the most out of the Eclipse. The more you familiarize yourself with the features of this pedal, the more you will enjoy its benefits and maximize its potential.

Overview

The Suhr Eclipse is a versatile, no compromise, dual channel overdrive/distortion that delivers a wealth of warm, organic amp-like tones in an easy to use, compact form factor.

Eclipse's incredible versatility stems from its powerful and intuitive two channel circuit design. Each channel features its own Gain, Level and 3-Band passive EQ similar to a channel switching amplifier. Both channels can be voiced independently to accommodate all of your playing needs.

The blue and red channel in the Eclipse sound identical, and the beauty of this lies in the individual passive EQ circuits. You can set one channel for a tight, scooped rhythm sound and the other to a more saturated, midrange focused tone for solos.

Our goal with the passive EQ circuit in the Eclipse is to make it as amp-like and natural as possible. Eclipse is equally comfortable in low gain overdriven tones as it is in tight, high gain aggressive tones.

Sometimes you may need to plug into a really dark, or bright amplifier. The unique Voice control allows you to fine tune the top end response to match the amplifier that you are playing through.

Eclipse offers features not seen in most overdrive/distortion pedals. With the ability to control its channels and bypass with an external effects switching system via FX LINK, and the ability to start up automatically in a desired channel on power up, Eclipse is incredibly rig friendly.



Getting Connected

- 1 **Input:** Plug the cable from your guitar into here, or from the previous effect's output.
- 2 **DC Input:** Eclipse accepts power from power supplies in the range of 9 to 18 Vdc (center negative) **See *Technical Specifications on pg 10.*** Eclipse can also be powered internally from a 9V battery as described below.
- 3 **Output:** Plug a cable from here to an amp or another effect's input.

Installing/Replacing The Battery:

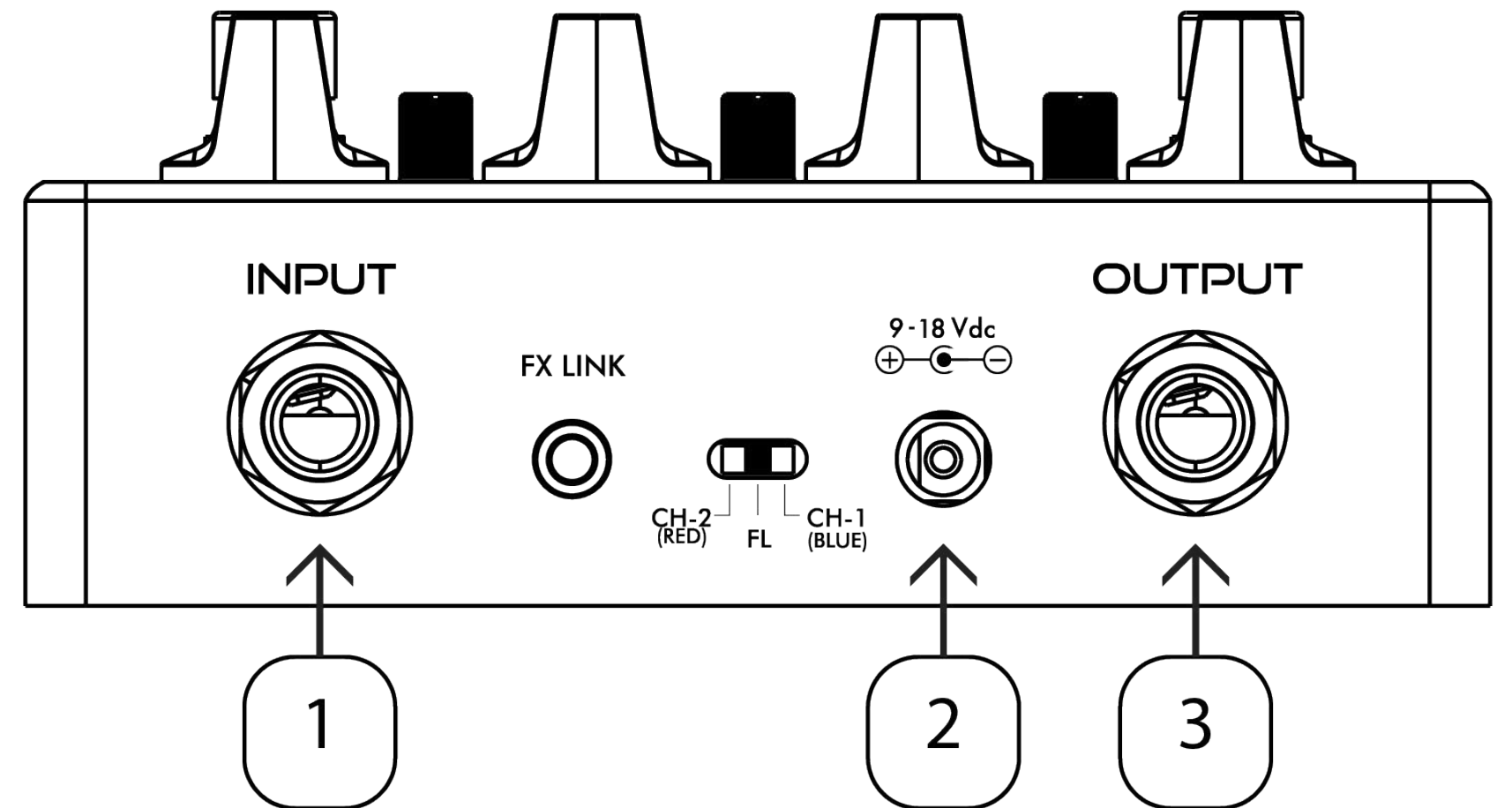
1. Unscrew the backplate of the pedal to access the battery compartment with the battery snap located inside.
2. Plug in a 9V battery to the snap and re-screw the backplate.

NOTES:

The battery is connected when a cable is plugged into the Input jack and there is no cable plugged into the DC input.

Remember to unplug your cable from the input jack when you are done playing to disconnect the battery in order to insure a long battery life. This step is not needed if a cable is plugged into the DC input.

TIP: For longer battery life, an Alkaline battery is recommended.



Channel Selection / Bypass

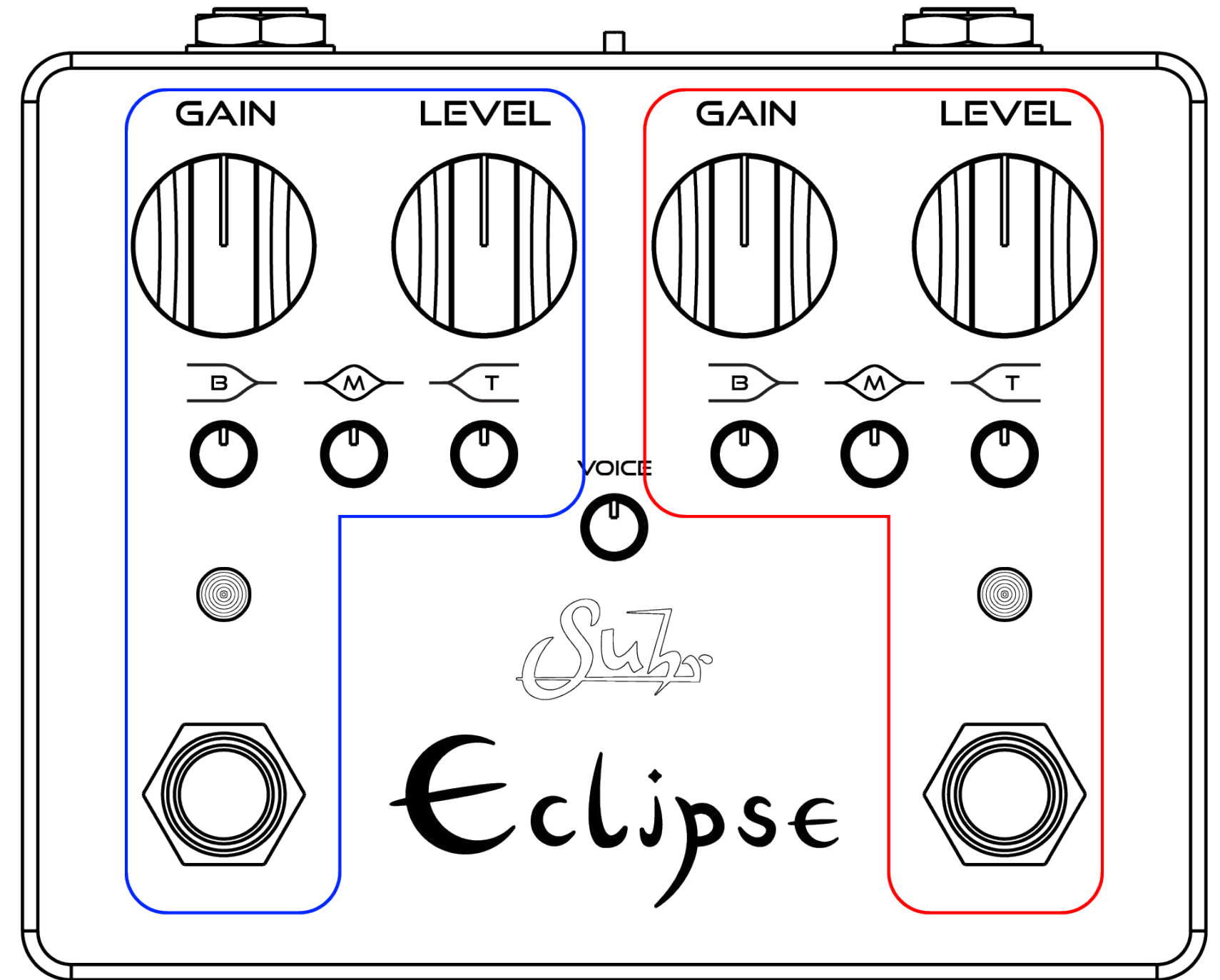
Eclipse has two channels (blue and red) with independent settings that are selected by the switch below the desired channel. The channels can be set for the same sound on each channel, or they can be radically different.

The left side is **Channel 1** and contains a **blue** LED above its dedicated footswitch.

The right side is **Channel 2** and contains a **red** LED above its dedicated footswitch.

Channel Selection and Bypass functions:

- Stepping on the left switch will turn **Channel 1** on or off.
- Stepping on the right switch will turn **Channel 2** on or off.
- Switching from one channel to another will automatically turn off the previous channel.
- When no channel is selected, Eclipse is in True Bypass (INPUT jack is connected directly to OUTPUT jack via Relay)



CHANNEL 1
(BLUE)

CHANNEL 2
(RED)

Controls

Gain: Adjusts the amount of gain added to your tone, taking you from tube-like classic crunch and overdriven tones to high gain/distortion territory.

Level: Adjusts the output volume of the pedal. Eclipse provides enough volume to push the front end of any tube amp into natural overdrive.

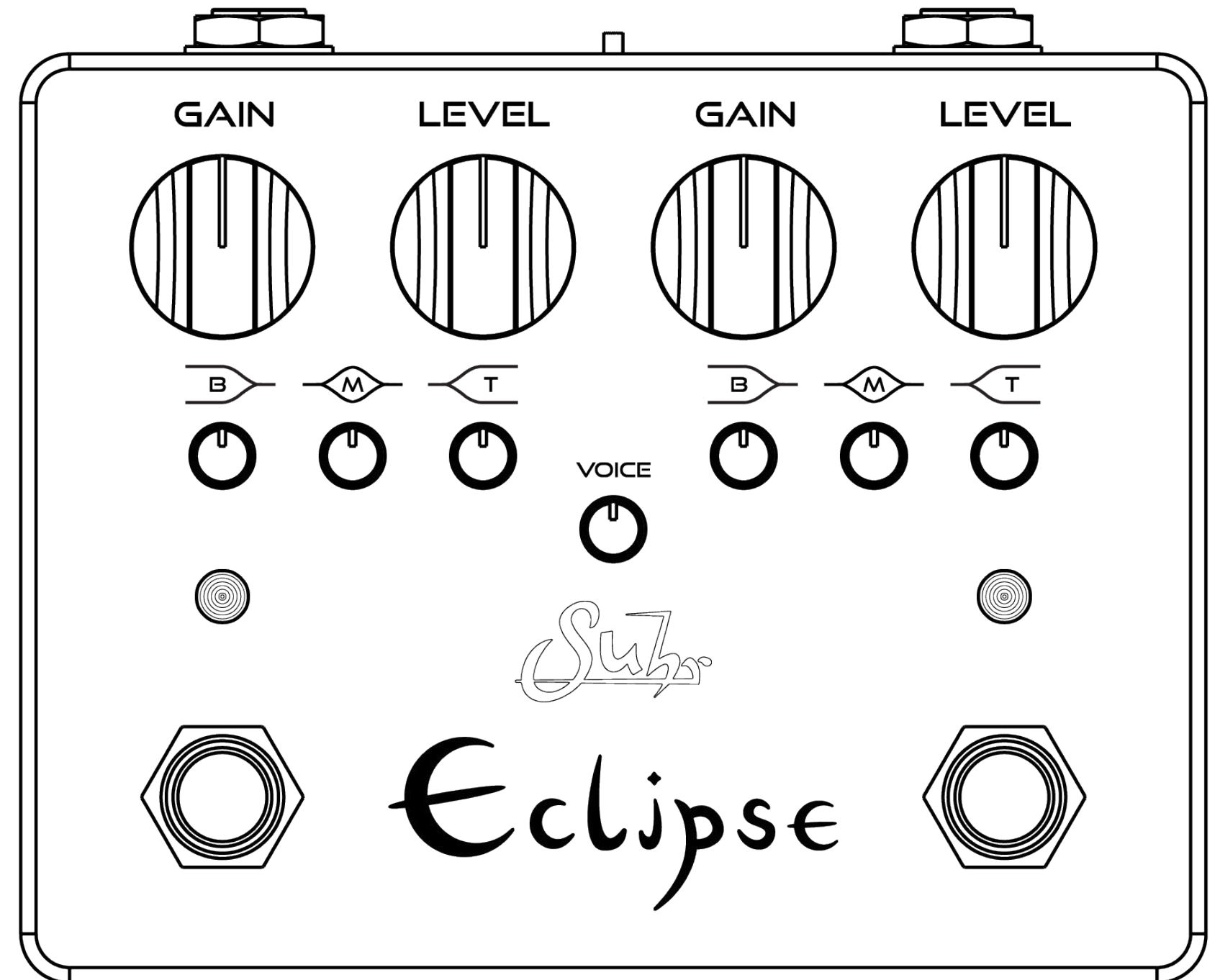
B (Bass): The bass knob is a shelving filter that reduces (counter clockwise) or boosts (clockwise) the amount of bass frequencies of the respective channel.

M (Middle): The mid knob reduces (counter clockwise) or boosts (clockwise) the amount of mid frequencies of the respective channel.

T (Treble): The treble control is a shelving filter that reduces (counter clockwise) or boosts (clockwise) the amount of treble frequencies of the respective channel.

Voice (global): The voice control allows you to tailor the overall brightness of the pedal to be pleasing for your specific amplifier. We suggest this knob be dialed in as preferred first, while the 3-band EQ knobs (B, M, T) are flat (set to the middle). Moving the knob counterclockwise reduces the amount of high-frequencies, while rotating clockwise increases the amount of high-frequencies for both channels.

Tip: This control is useful for amps with bright switches. When the clean channel of your amp has the bright switch on, dial the voice knob counterclockwise to maintain a pleasant overdriven/distortion tone.



Battery Monitor

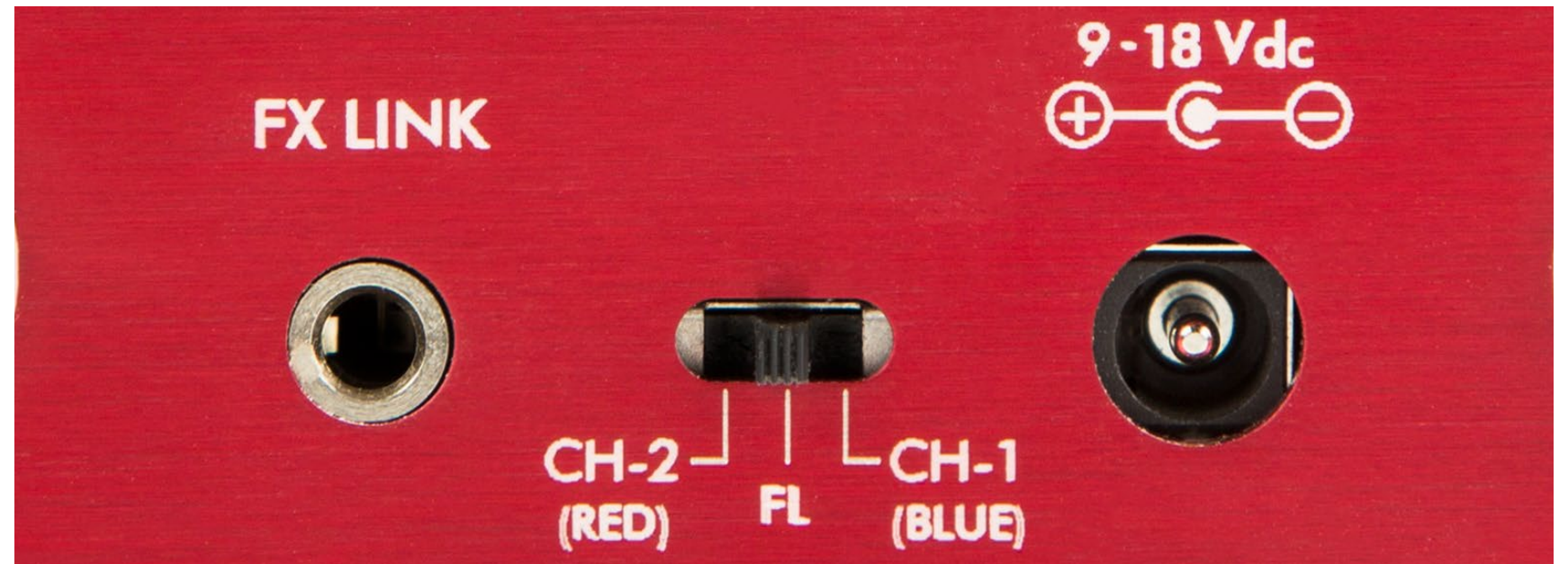
The internal 9V battery is monitored at both power up and during use. The user will be alerted when the battery voltage becomes low. When the battery becomes too low to reliably operate the pedal, True Bypass is activated.

Upon powering up the pedal, the battery voltage is measured. If the voltage is at a low voltage (4.5V), the LEDs will flash 3 times to alert the user. Normal operation will then resume. Should the battery fail completely (<4V), Eclipse will switch to true bypass mode and the LEDs will begin to flash. This will ensure that the signal continues uninterrupted and undistorted.

3-Position Slide Switch

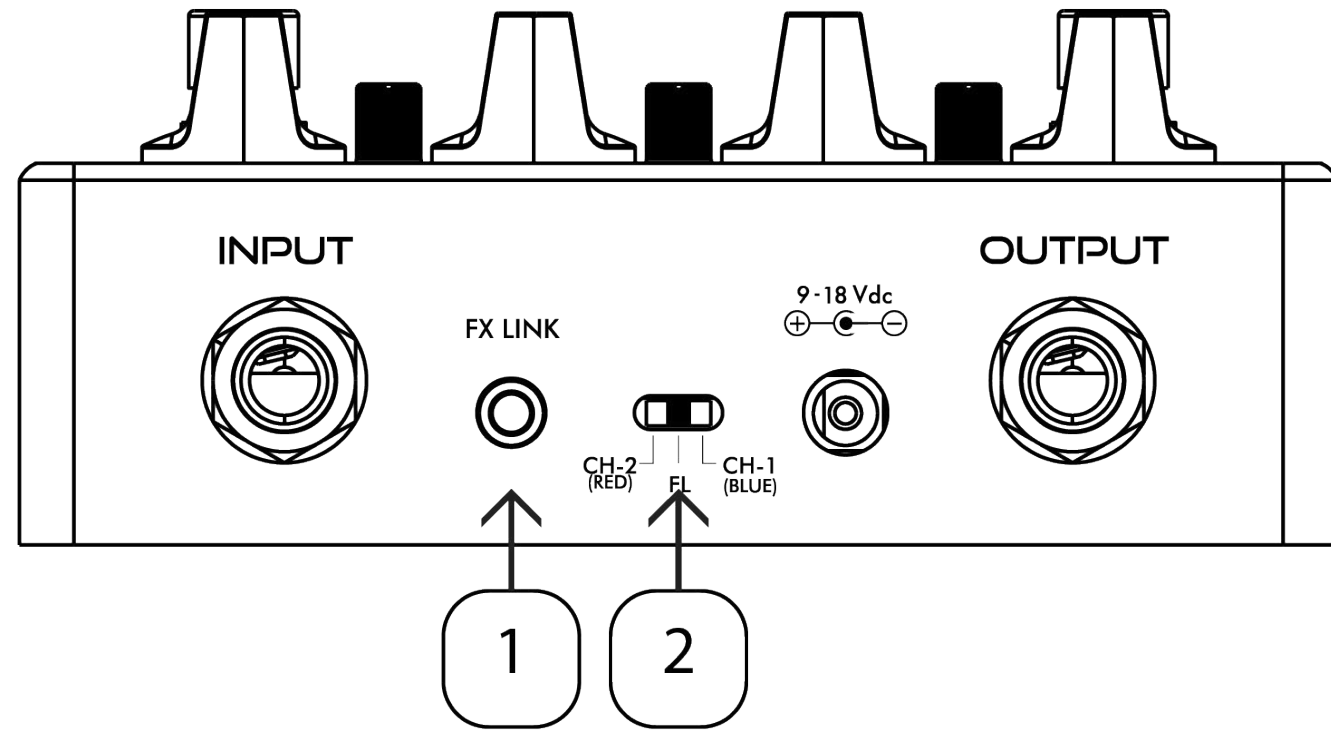
At the top of the pedal between the Input and Output jack is a 3 position toggle switch.

- When pushed towards Channel 1, the pedal powers on with Channel 1 activated.
- When pushed towards Channel 2, the pedal powers on with Channel 2 activated.
- When set to FL (center), the pedal will accept external control via the FX LINK jack, and will also power on with neither channel activated.



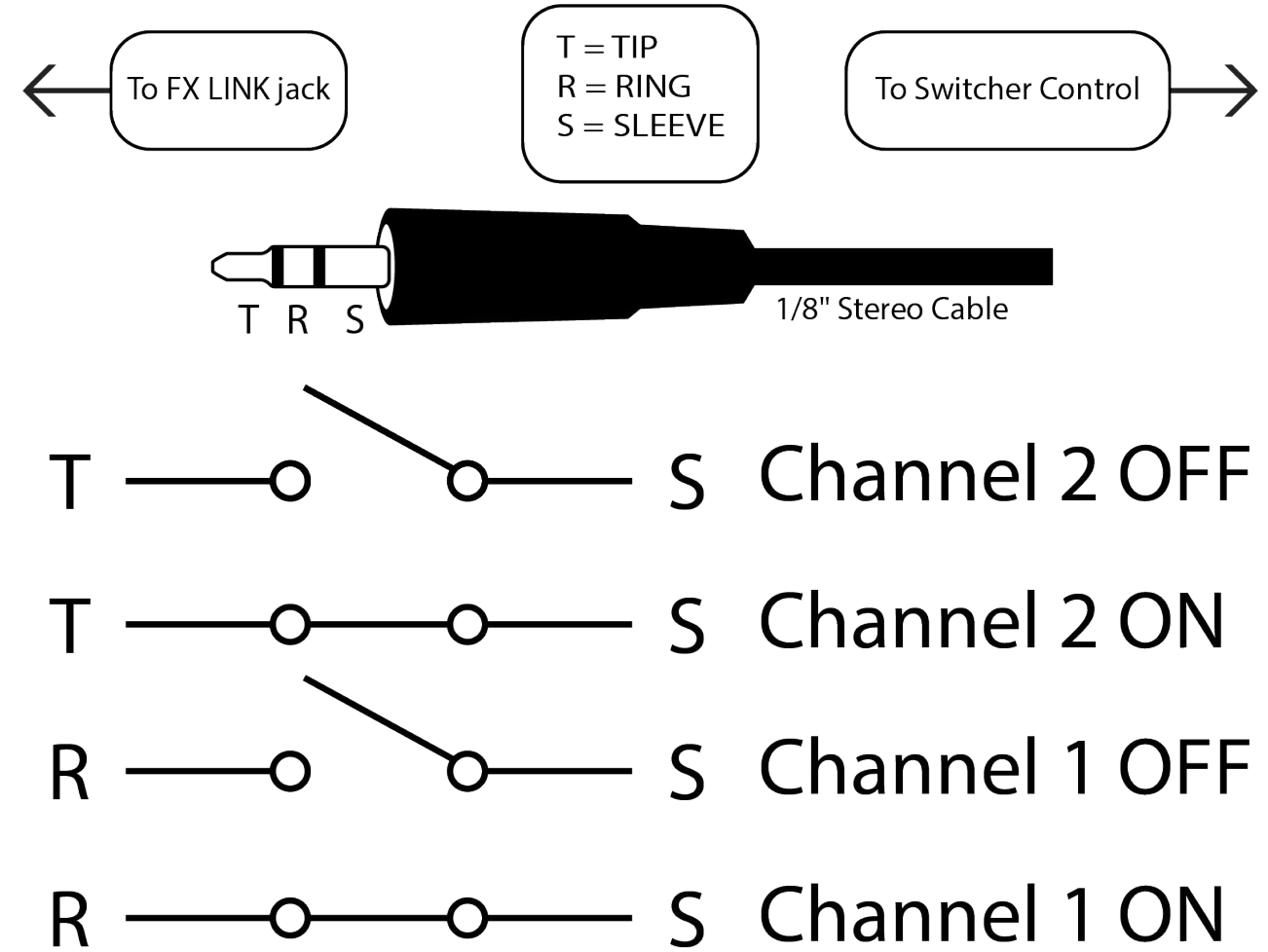
FX Link (External Control)

Eclipse contains an 1/8" stereo TRS input jack called **FX LINK** that allows the pedal to be controlled by an effects switching system with TRS control output jacks, such as the BOSS ES-8 or ES-5.



Setup

- 1 Connect a TRS 1/8" cable into the FX LINK jack from your effects switching system. A 1/4" to 1/8" stereo cable would typically be used.
- 2 Set the 3-position slide switch to the **center** (FL) *on startup* for external control



A connection between the Tip and Sleeve controls Channel 2's ON/OFF state.

- When Tip is connected to Sleeve, Channel 2 is ON
- When Tip is disconnected from Sleeve, Channel 2 is OFF

A connection between the Ring and Sleeve controls Channel 1's ON/OFF state.

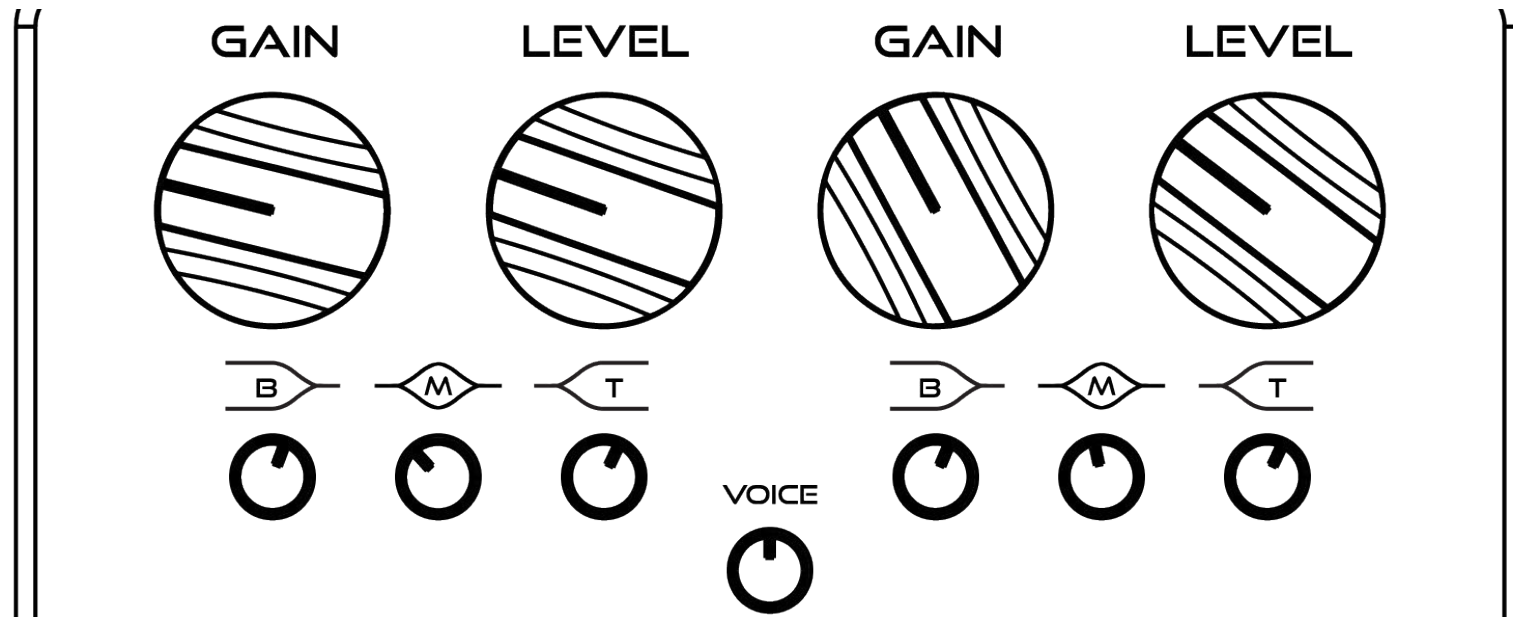
- When Ring is connected to Sleeve, Channel 1 is ON
- When Ring is disconnected from Sleeve, Channel 1 is OFF

Tip (Channel 2) has priority over Ring (Channel 1) when both are connected at the same time.

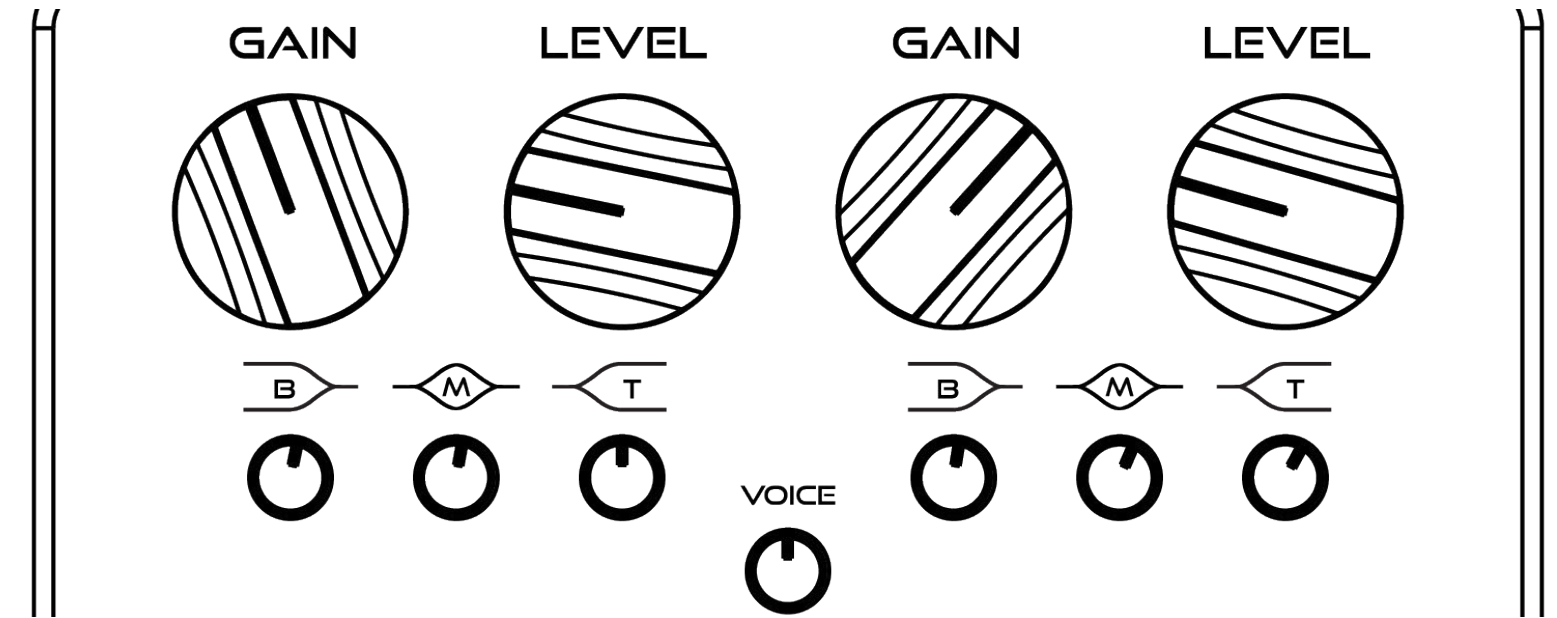
Sample Settings

With these sample settings, dial in the Voice knob to suit your amplifier.

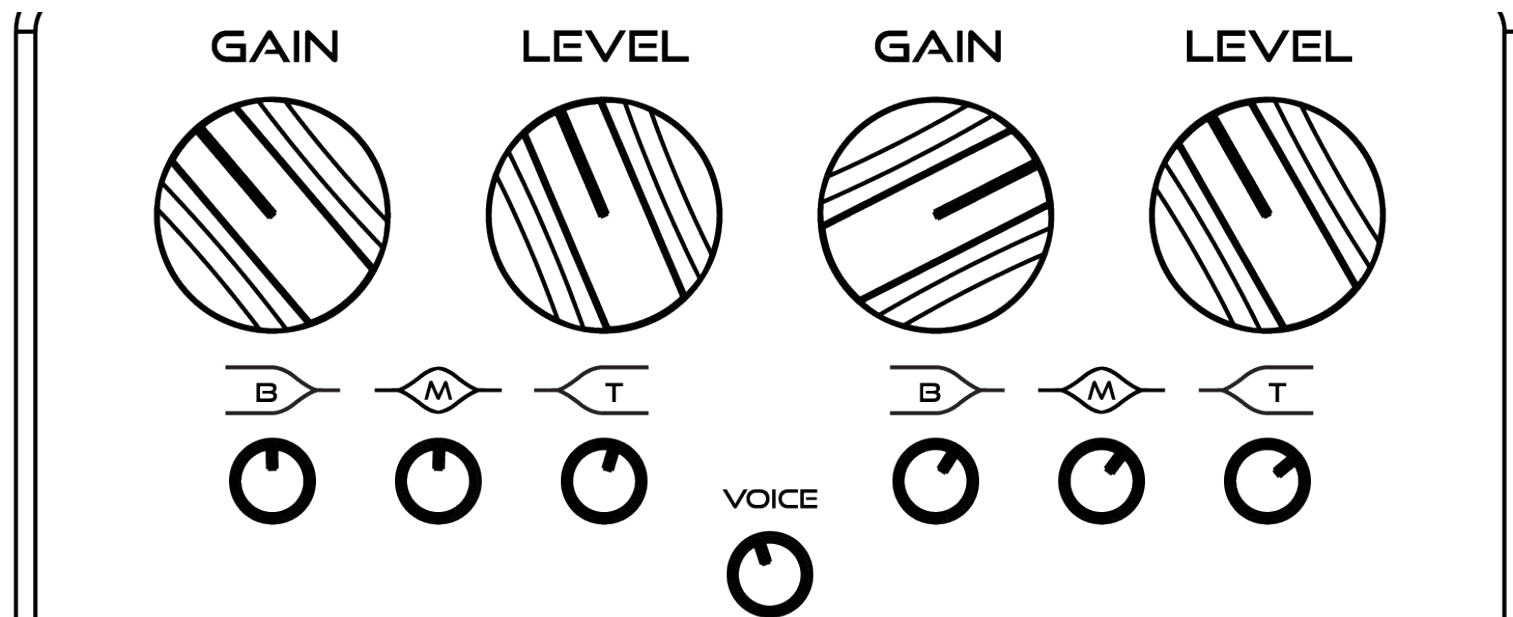
Classic Crunch (Rhythm CH1, Lead CH2)



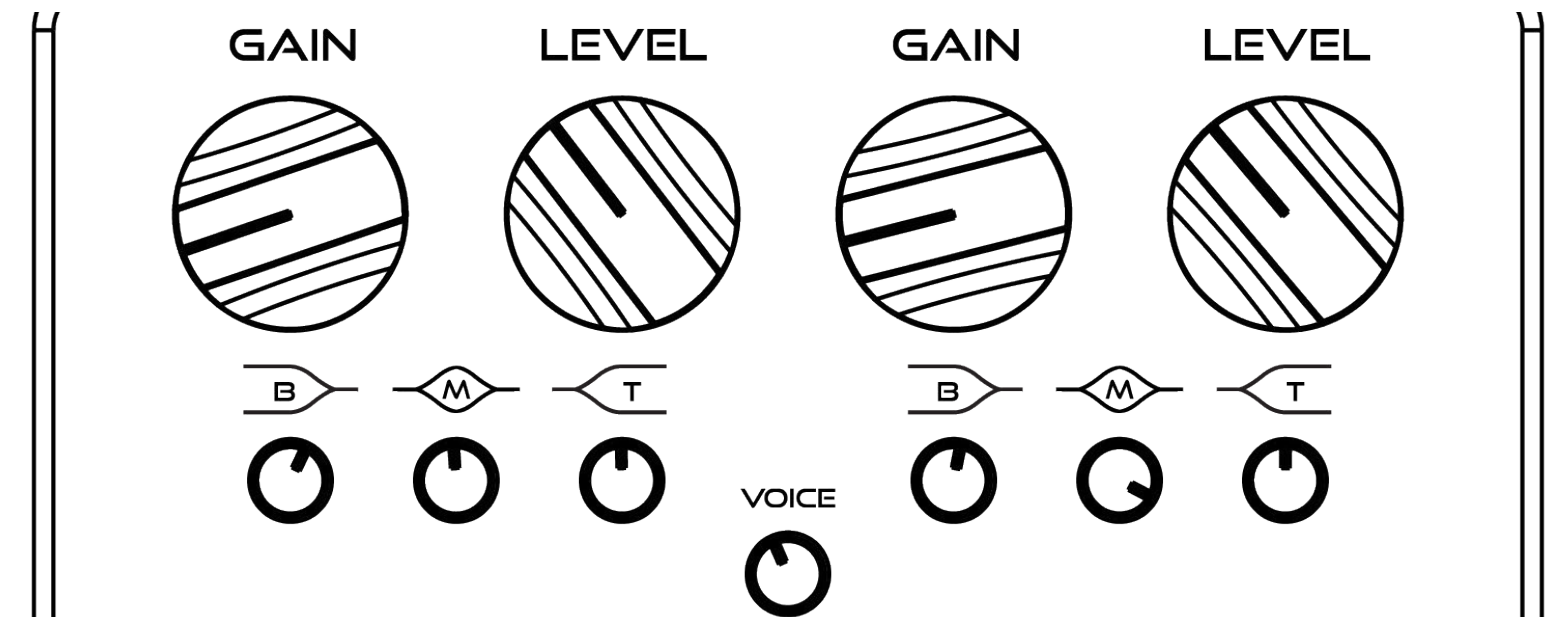
Hard Rock (Rhythm CH1, Lead CH2)



Metal (Rhythm CH1, Lead CH2)



Boost (Front End Boost CH1, Front End Mid Boost CH2)



Technical Specifications

Input Impedance:	1M Ohm
Output Impedance:	100 Ohm
Power Connector:	9Vdc, center negative, 2.1mm x 5.5mm
Operating voltage:	4V to 18V (nominal 9V)
Maximum Voltage:	20Vdc
Reverse Battery Protection:	Yes
Over Voltage Protection:	Yes
Current Consumption:	12mA min, 15.5mA max
Estimated Battery Life:	25 - 32 hours continuous use
Dimensions:	4.875"(W) x 3.875"(D) x 1.375"(H)
Weight:	1.13lb
FX Link Connector:	1/8" TRS jack
FX Link Max Voltage:	3.3Vdc
Shield -> Tip:	Activate Channel 2 (Red LED)
Shield -> Ring:	Activate Channel 1 (Blue LED)
ROHS Compliant:	Yes

Warranty

JS Technologies, Inc. (JST) warrants for lifetime from date of purchase by the initial retail purchaser that this product shall be free from defects in workmanship. Electronic components such as capacitors, resistors, filters, transformers, jacks, and pots are covered for 5 years. Any parts determined defective by JST within the five (5) year term shall be repaired or replaced by JST without charge for parts and labor provided the unit is returned, transportation costs prepaid, to JS Technologies, Inc., 601 Crane Street, Unit A, Lake Elsinore, CA 92530, or to such facility authorized by JST. JST will pay shipping costs to return the unit to its owner. Defects in workmanship will be determined by JST for limited lifetime coverage.

This warranty does not cover damage caused by accident, misuse, abuse, neglect, unauthorized or improperly performed repairs, alterations, and/or wear and tear occasioned by use of the product, and does not include any expense for inconvenience or loss of use while the product is being repaired or replaced. JST expressly disclaims any liability for consequential damages arising from the sale, use, or inability to use the product. Any warranty implied by law, including any warranty of merchantability or fitness, is expressly limited to the one (5) year warranty term for the parts on our amplifiers and electronic products. The foregoing statements of warranty are exclusive and in lieu of all other remedies. Workmanship lifetime warranty is limited strictly to the original retailer purchaser of the instrument registered with JST within 10 days of purchase from an authorized JST dealer or distributor. JST will pay shipping costs to return the unit to its owner within the mainland U.S.

The above warranty policy only applies to customers in USA. If you are an international customer, please check with your distributor and the dealer in your country for warranty matters. Warranty issues must be handled through your dealer or distributor. If you are an international customer who purchased (or plan to purchase) from a US dealer, we can handle warranty matters direct but you will be responsible for shipping both ways. We encourage international customers to purchase through your local distributor or dealer for this reason. Our international distributors are set up to handle warranty issues in their respective countries. If you do not have an authorized Suhr dealer in your country, please contact us direct for further details.

NOTE: This product has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this product in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference. 2) This device must accept any interference received, including interference that may cause undesired operation.

Notice: The FCC regulations provide that changes or modifications not expressly approved by J.S. Technologies Inc. could void your authority to operate this equipment.

These limits are designed to provide reasonable protection against harmful interference in a non-residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the antenna of the radio/television receiver.**
- Increase the separation between this equipment and the radio/television receiver.**
- Plug the equipment into a different outlet so that the equipment and the radio/television receiver are on different power mains branch circuits.**
- Consult a representative of J.S. Technologies Inc. or an experienced radio/television technician for additional suggestions.**