

*Suhr*<sup>®</sup>

**Koji Comp**<sup>™</sup>

**USER GUIDE**



Thank you for purchasing the Suhr **Koji Comp**<sup>™</sup>. Please take the time to read through this guide to familiarize yourself with Koji's many features and applications.

## OVERVIEW

The Koji Comp is an easy to use analog compressor designed to offer a wealth of popular stompbox and studio style compression effects.

With a simple twist of the Mix control, or flick of Koji's Voice switch, you can easily create a limitless range of compression effects. Whether you choose subtle, transparent compression for smoothing out your rhythms, or dial in warm and squishy tones to take you into R&B and Country territory - the Koji Comp might be the last compressor you will ever need.

## CONTROLS

The Koji Comp features an easy to tweak control layout which includes: Compression, Level, Attack, Mix, and a three position Voice switch.

**COMP (Compression):** This control determines the amount of compression (gain reduction) applied to your signal path.

- At lower settings, (0 - 2) this control produces a subtle, smoothing effect, ideal for the player looking to even out their dynamics without dramatically altering their tone.
- At middle settings, (3 - 6) this control offers increased compression for a more percussive, dramatic response, favored by players seeking tones heard on classic R&B and Funk recordings of the 70's and 80's.
- At higher settings (7 - 10), this control offers all of the classic squish that vintage stompboxes are known for... and more.

**LEVEL:** Adjusts the overall output level of the Koji Comp. Use this control to compensate for the amount of Compression/Gain Reduction applied to your signal path.



**ATTACK:** Determines how quickly the compressor responds to signals above a desired threshold.

- At lower settings (0 - 3) the Attack time is very quick, ideal for dialing in percussive Country, Funk and R&B.
- At middle settings (4 - 6) the Attack time is more moderate, making the effect less abrupt, which results in a fuller, thicker tone.
- At higher settings (7 - 10) the Attack time is slower, taking a longer amount of time for the compressor to engage, which helps retain the natural attack of your instrument.

**MIX:** Varies the ratio of dry to compressed signal from 10% - 100%.

**VOICE SWITCH:** This switch offers the following three voicings:

**Left** - Offers a boost to the upper midrange frequencies to bring out the attack in your picking.

**Middle** - Transparent (flat) frequency response.

**Right** - Offers a boost in the upper midrange and treble frequencies - for a smooth, glassy, top-end sweetness.

### ***MULTI-FUNCTION LED***

**GAIN REDUCTION INDICATOR:** The LED indicator that displays the amount of Gain Reduction based on the ratio of your instrument's signal and the level of compression in your signal.

**Green** - Minimal Gain Reduction

**Orange** - Moderate Gain Reduction

**Red** - Maximum Gain Reduction (This is not a bad thing)

**ON / OFF INDICATOR:** The LED indicator displays the on / off effect status.

### ***OPERATION***

**INPUT:** Connect this jack to the output of your instrument or effects device.

**Note:** Connecting a cable to the input jack will power up the pedal. If using the internal battery, remember to unplug your cable from the input jack when you are finished playing in order to conserve your battery life.

**OUTPUT:** Connect this jack to the input of an amplifier or an effect device. To activate, press the footswitch and Koji Comp's LED will be lit indicating that the effect is engaged.





FX Link Switch Position

## ***EXCLUSIVE FEATURES***

### **FX Link**

The FX Link can be utilized to remotely control the pedal. Shorting the shield to the tip will activate the pedal. ( 1/8" Mono Jack)

**Right:** Koji will power up in the ON state.

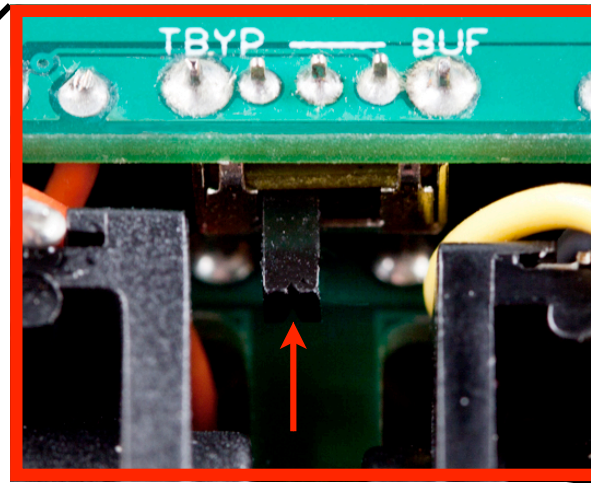
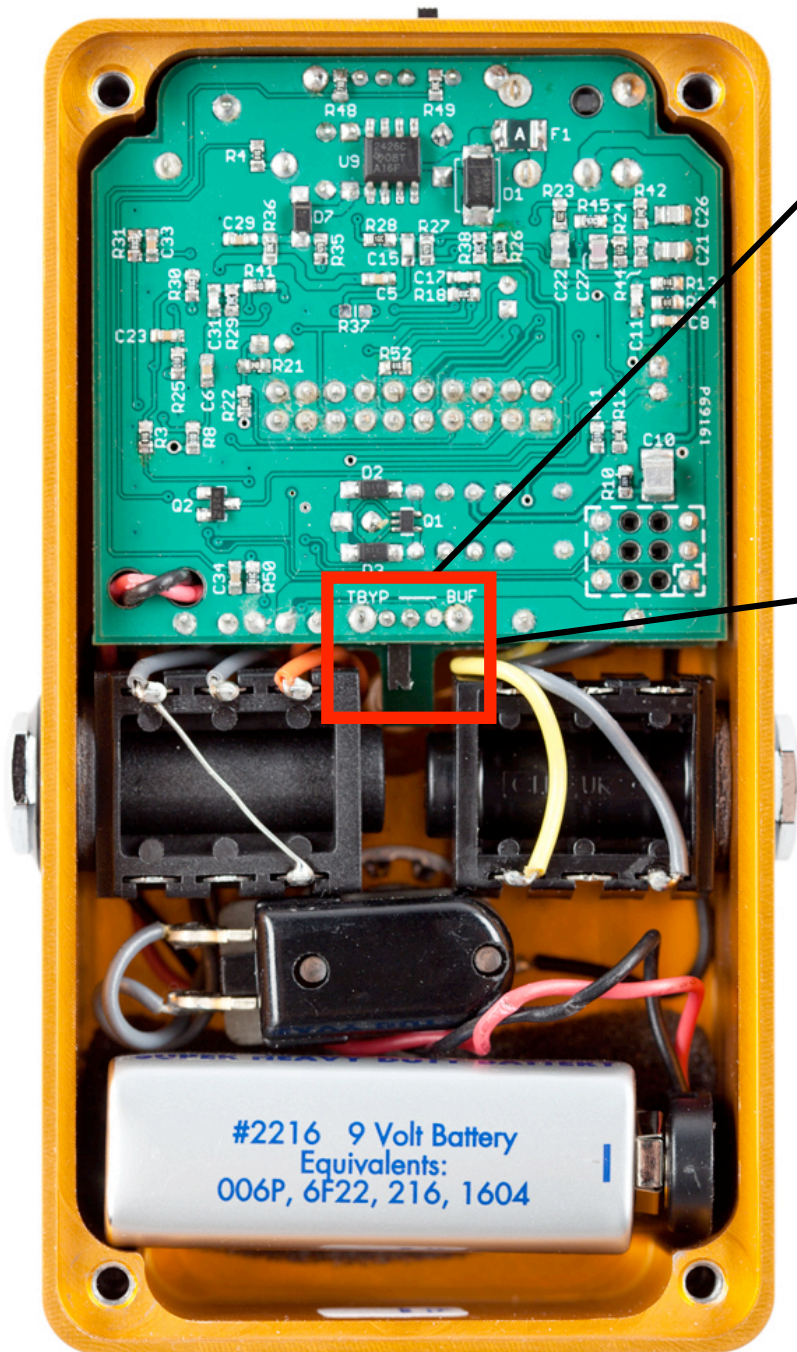
**Center:** Koji can be switched remotely via the FX Link jack. In this position Koji's state will be dictated by the status of foot switch connected to the jack. If the FX Link jack is not utilized, Koji will power up in the OFF state.

**Left:** Koji will power up in the OFF state.

### **Battery Monitor**

Upon Koji powering up, the battery voltage is measured. If the voltage measured is lower than 5.5V, Koji's LED will flash 3 times to alert you that it's time to replace the battery. Once the 9V battery is replaced, normal operation will resume. Should a battery fail completely (<5V), Koji will switch itself into True Bypass mode and the LED will begin to flash. This feature ensures that your signal will continue uninterrupted and undistorted until you can replace the battery with a new one.

**Note:** The LED flash can be defeated by pressing the footswitch to turn it off.



### Selectable Bypass Modes

The Koji Comp offers the following bypass modes:

**True Hardwire Bypass (TBYP):** A hard-wire bypass (via relay) removes the pedal from the signal path. Use this setting in setups where there are a few pedals and relatively short cables. (Default Setting)

**Buffered Bypass (BUF):** Select the Buffered Bypass if you use long lengths of cable between your pedals and your amplifier, or employ a long chain of pedals.

## SAMPLE SETTINGS

### SMOOTH COMPRESSION



Use this setting to smooth out your dynamics for rhythms while retaining your instruments natural tone. Turn the Comp control up a little more and select the Right side of the Voice switch to add some sparkle to obtain a jangly 60's rhythm tone.

### PERCUSSIVE R&B



Call up this setting and experience what old school R&B is all about. By selecting the left side of Koji's Voice switch, your instrument will gain a boost in the upper mids to accentuate your picking technique, making it easier to be heard and cut through the mix.

### SINGING ROCK SOLO



Try this setting in combination with an overdrive pedal or an already distorted amplifier for a creamy 80's Rock style solo tone.

### VINTAGE SQUISH



Dial in this setting for iconic stompbox style squish. Ideal for producing authoritative Country chicken pickin, select the Right side of Voice switch to add upper end definition and sparkle.

## ***SPECIFICATIONS:***

Input Impedance:	1M ohm
Output Impedance:	600 ohm
Power Connector:	9Vdc, center negative, 2.1mm x 5.5mm
Operating Voltage:	5V to 18V (nominal 9V)
Maximum Voltage:	20Vdc
Attack Time Range:	1ms-100ms
Gain Reduction Indicator:	3 color LED
Reverse Battery Protection:	Yes
Over Voltage Protection:	Yes
Current Consumption:	~ 20mA
Estimated Battery Life:	40 - 50 hours of continuous use
Dimensions:	2.50" Width x 4.50" Depth x 1.25" Height
Weight:	0.75 pound
Fx Link Connector:	1/8" mono jack
Shield to Tip:	Activate On/Off
Fx Link Max Voltage:	3.3Vdc
ROHS Compliant:	Yes

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## **WARRANTY FOR SUHR AMPLIFIERS AND ELECTRONIC PRODUCTS:**

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 damaged 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.

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