

# JHS PEDALS

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## USER MANUAL

AS OF MARCH 2016



# TABLE OF CONTENTS

## WARRANTY INFORMATION ---

3

## OVERDRIVE & DISTORTION ---

Angry Charlie V3 4

Charlie Brown V4

Double Barrel V3

Moonshine

Morning Glory V4 5

Steak 'N' Eggs

Superbolt V2

Sweet Tea V2

The AT 6

The Kilt

Twin Twelve V2

## COMPRESSION ---

Lime Aid 7

Pulp 'N' Peel V3

## BOOST ---

Mini Bomb Boost 7

The Prestige

## FUZZ ---

Bunrunner V2 8

Firefly

Four Wheeler V2

Mini Foot Fuzz

Muffuletta 9

Pollinator V2

## BUFFER ---

Little Black Buffer 9

## TREMOLO ---

Honeycomb Deluxe 10

## MODULATION ---

The Emperor 10

Unicorn

Warble Tron 11

## DELAY ---

Panther Cub 12

## REVERB ---

Alpine Reverb 13

## PREAMP ---

Colour Box 14

The Crayon 15

## ABOUT JHS PEDALS ---

16

Thanks for buying a JHS Pedal. You might not have realized it but you also just received one of the best warranties in the business! This pedal is backed by a limited lifetime warranty. If anything happens in any way that is our fault or the fault of a part that we use, we will fix it 100% free of charge with no questions asked.

Simply email [repairs@jhspedals.com](mailto:repairs@jhspedals.com)  
or call 816 216 7953.

***Thanks for buying a JHS Pedal,  
we are proud to stand behind what we do!***



## ANGRY CHARLIE V3



Modern Marshall tones that lean toward the classic JCM 800. Heavy overdrive and distortion that is rich in British character, feel and attitude. A specially designed three band EQ allows you to sculpt it perfectly into any rig.

### Controls

**VOLUME** - Controls the output volume.

**DRIVE** - Controls the amount of drive or gain just like a tube amp being cranked at high volumes.

**BASS** - Controls the amount of bass. 50% is relatively flat while turning it to the left decreases bass and to the right increases bass.

**MIDS** - Controls the amount of mids. 50% is relatively flat while turning it to the left decreases mids and to the right increases mids.

**TREBLE** - Controls the amount of treble. 50% is relatively flat while turning it to the left decreases treble and to the right increases treble.

**POWER** - Uses 9V or 18V DC Negative Center. Do not use more than 18V DC. Your warranty will be voided. 100mA max consumption.

### Jacks

**INPUT** - Jack on the right side of the pedal.

**OUTPUT** - Jack on the left side of the pedal.



## CHARLIE BROWN V4



Vintage Marshall tones that lean toward the classic JTM45. Light, medium, and high gain overdrive at it's best. From Hendrix to AC/DC you will be right at home. A specially designed three band EQ allows you to sculpt it perfectly into any rig.

### Controls

**VOLUME** - Controls the output volume.

**DRIVE** - Controls the amount of drive or gain just like a tube amp being cranked at high volumes.

**BASS** - Controls the amount of bass. 50% is relatively flat while turning it to the left decreases bass and to the right increases bass.

**MIDS** - Controls the amount of mids. 50% is relatively flat while turning it to the left decreases mids and to the right increases mids.

**TREBLE** - Controls the amount of treble. 50% is relatively flat while turning it to the left decreases treble and to the right increases treble.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.

### Jacks

**INPUT** - Jack on the right side of the pedal.

**OUTPUT** - Jack on the left side of the pedal.



## DOUBLE BARREL V3



Everything possible, low to medium gain. The ultimate overdrive covers every style with ease in a compact design. It has our Morning Glory and our take on the classic 808 tube screamer.

### Controls

**Left Side - Morning Glory**

**Volume** - Controls the output volume.

**Drive** - Controls the amount of drive or gain just like a tube amp being cranked at high volumes. You will notice that as you turn up the drive it also adds brightness.

**Tone** - Controls the amount of brightness. Right is brighter, left is darker.

**Bright Cut Toggle** - Tames some of the high end presence. Down is brighter, up is darker.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA consumption.

**Right Side - JHS 808**

**Volume** - Controls the output volume.

**Drive** - Controls the amount of drive or gain just like a tube amp being cranked at high volumes.

**Tone** - Controls the amount of brightness. Right is brighter, left is darker.

**3 Way Gain Toggle** - Down is stock saturated mode, middle is boost mode, and up is crunch mode.

**JACKS**

**Input** - 1/4" jack on the right side of the pedal.

**Output** - 1/4" jack on the left side of the pedal.



## MOONSHINE



Non-transparent overdrive that goes down as smooth as your granddaddy's White Lightning. Thick rich mids, clear top end, the best bass response of any drive we make, more volume than you will ever need, and the ability to do medium/high gain overdrive like nothing you've ever heard make this a hard habit to kick.

### Controls

**Volume** - Controls the output volume.

**Drive** - Controls the amount of drive.

**Tone** - Increases brightness. Right is brighter, left is darker.

**Proof Switch** - Down is higher gain with more saturation, sustain, and mid-range goo. Up is more open and crunchy with more overall volume for cleaner applications.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.

### Jacks

**INPUT** - Jack on the right side of the pedal.

**OUTPUT** - Jack on the left side of the pedal.



## MORNING GLORY V4



Transparent low/medium gain overdrive that never gets in the way. The overdrive you've always wanted but could never find.

### Controls

**VOLUME** - Controls the output volume.

**DRIVE** - Controls the amount of drive or gain just like a tube amp being cranked at high volumes. You will notice that as you turn up the drive, it also adds brightness.

**TONE** - Controls the amount of brightness. Right is brighter, left is darker.

**GAIN TOGGLE** - Engages higher gain mode when flipped up. The LED will turn red to indicate that you are in the higher gain mode.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.

### Jacks

**RED REMOTE JACK** - The upper jack on the right side of the pedal is for a JHS "Red Remote" switch. Using this switch you can toggle between the higher gain mode and the standard mode on the fly.

**INPUT** - Lower jack on the right side of the pedal.

**OUTPUT** - Jack on the left side of the pedal.

**BRIGHT CUT SWITCH** - Switch on the right side of the pedal that cuts the highest frequencies in case the overall tone is too bright.



## SWEET TEA V2



Everything possible, medium to high gain. Classic 808 tube screamer tones and our very own Angry Charlie inside this one compact design.

### Controls

**Left Side - Angry Charlie**

**Volume** - Controls the output volume.

**Drive** - Controls the amount of drive or gain just like a tube amp being cranked at high volumes.

**Tone** - This is a tone cut like you would find on an amp. Left is brighter, right is darker.

**Presence** - Just like the presence knob on an amp, this allows you to dial in the perfect amount of high end for compatibility with any amp. It works as a presence cut, left is brighter, right is darker.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA consumption.

**Right Side - JHS 808**

**Volume** - Controls the output volume.

**Drive** - Controls the amount of drive or gain just like a tube amp being cranked at high volumes.

**Tone** - Controls the amount of brightness. Right is brighter, left is darker.

**3 Way Gain Toggle** - Down is stock saturated mode, middle is boost mode, and up is crunch mode.

**JACKS**

**Input** - 1/4" jack on the right side of the pedal.

**Output** - 1/4" jack on the left side of the pedal.



## STEAK & EGGS



With these modified classic overdrive and compression circuits in one box, the Steak and Eggs is the perfect staple for your pantry. Marinate your ears and incubate your tone with the Steak and Eggs.

### LEFT SIDE

**JHS Morning Glory w/High Gain Toggle**

**Volume** - Controls the output volume.

**Drive** - Controls the amount of drive, or gain, just like a tube amp being cranked at high volumes. You will notice that as you turn up the drive it also adds brightness.

**Tone** - Controls the amount of brightness. Right is brighter, left is darker.

**High Gain Toggle** - Down is the standard Morning Glory, up kicks it into high gain mode!



### RIGHT SIDE

**Keeley Electronics 3 Knob Compressor**

**Level** - Controls the output level.

**Sustain** - Controls the sustain of the compression. Turning to the right results in a more compressed tone.

**Blend** - Blends in your original signal as you turn to the right.

**Bright Toggle** - Down is the stock position. When pushed up it will add brightness to your signal.

### JACKS

**INPUT** - Jack on the top right of the pedal. **OUTPUT** - Jack on the top left of the pedal.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.



## SUPERBOLT V2



Supro\* tones in a pedal and a whole lot more! This discreet circuit does everything from clean boost to sagging exploding small amp distortion with ease.

\*The word/name Supro is a registered trademark of Pigtronix. The JHS SuperBolt pedal is in no way affiliated with Supro\* USA or Pigtronix.

### Controls

**VOLUME** - Controls the output volume.

**DRIVE** - Controls the amount of drive or gain just like a tube amp being cranked at high volumes.

**TONE** - Increases brightness. Right is brighter, left is darker.

**GAIN TOGGLE** - Engages higher gain mode when flipped up. The LED will turn red to indicate that you are in the higher gain mode.

### Jacks

**RED REMOTE JACK** - The upper jack on the right side of the pedal is for a JHS "Red Remote" switch. Using this switch you can toggle between the higher gain mode and the standard mode on the fly.

**INPUT** - Lower jack on the right side of the pedal.

**OUTPUT** - Jack on the left side of the pedal.

**POWER** - Uses 9V DC Negative Center. The SuperBolt is internally charged to 18V. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.



## THE AT



Andy Timmons signature channel drive. British style overdrive and distortion that will have your guitar singing like Andy's!

### Controls

**Volume** - Controls the output volume.

**Drive** - Controls the amount of drive, or gain, just like a tube amp being cranked at high volumes.

**EQ** - High pass filter that naturally brightens or darkens the overall tone of the pedal. Right is brighter, left is darker.

**Air** - Just like the presence knob on an amp, this allows you to dial in the perfect amount of high end for compatibility with any amp. Right is brighter, left is darker.

**POWER** - Uses 9V DC Negative Center. This pedal CAN be run at 18v for more headroom and greater dynamics. Do not use more than 18V DC. Your warranty will be voided. 100mA consumption.

### Jacks

**INPUT** - Jack on the right side of the pedal.

**OUTPUT** - Jack on the left side of the pedal.



## THE KILT



A tone tweakers dream pedal. Boost, overdrive, distortion, fuzz and spitting chaos in one box. Don't be seen without your Kilt on.

### Controls

#### FOOTSWITCHES

**Left Footswitch** - Engages the left "dirt" side.

**Right Footswitch** - Engages the right "boost" side.

#### KNOBBS

##### Left "Dirt" Side

**Volume** - Controls the output volume.

**Tone** - Controls the amount of brightness. Right is brighter, left is darker.

**Gain** - Controls the amount of drive, or distortion.

##### Right "Boost" Side

**Boost** - Controls the output volume of the boost. The boost will add just a slight amount of grit to your signal.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.

#### Toggles

**Low Cut Toggle** - The down position is the stock mode with the most bass. The up position is the "cut" mode with less bass.

**G1 & G2 Toggles** - These toggles work together to give you up to 4 different resistance clipping options. Both toggles down is the lowest gain setting. G1 up gives you more overdrive. G2 up gives you more fuzz. Both toggles up gives you the heaviest gated fuzz the Kilt offers!

**Order Toggle** - Selects the order of the two effects. Down is Boost > Dirt, up is Dirt > Boost.

#### Jacks

**INPUT** - Jack on the right side of the pedal.

**OUTPUT** - Jack on the left side of the pedal.



## TWIN TWELVE V2



For the first time ever, the legendary tones of the Silvertone 1484 amplifier are at your feet. Rich preamp/overdrive tones with a unique voice and character not found in any other pedal on the market.

### Controls

**VOLUME** - Controls the output volume.

**DRIVE** - Controls the amount of drive or gain just like a tube amp being cranked at high volumes.

**BASS** - This is an active bass control just like the one you would find on the classic amp, modified for a more usable sweep. Left is less, right is more.

**TREBLE** - Active treble control just like the amp. Left is less, right is more.

**CLEAN/DIRT TOGGLE** - Switches between clean preamp boost and overdrive mode. The LED is blue when in Clean mode and is red to indicate you are in the Dirt mode.

**POWER** - Uses 9V DC Negative Center. The Twin Twelve is internally charged to 18V. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.

### Jacks

**RED REMOTE JACK** - The upper jack on the right side of the pedal is for a JHS "Red Remote" switch. Using this switch you can toggle between the Clean mode and the Dirt mode on the fly.

**INPUT** - Lower jack on the right side of the pedal.

**OUTPUT** - Jack on the left side of the pedal.



## LIME AID



Bass compression done differently. Truly transparent with no high end loss as well as low end that fills out the mix. Blend control makes this compressor a pedal that you will never turn off.

### Controls

**Volume** - Controls the output volume.

**Comp** - Controls the amount of compression. From a slight coloration to a pleasing squash.

**Blend** - Blends in compression. All the way up is full compression/preamp tone while rolling it back wards brings in your original uncompressed tone.

*Do not tamper with the internal trim pot. It is set to a specific voltage. Tampering with it will void your warranty.*

### Power

Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA consumption.

### Warranty

Our pedals carry an unconditional "Two Year" full warranty for ANY problem related to the function or operation of that pedal due to faulty parts and/or other internal problem. Simply show the receipt of purchase and we will honor it up to two years. We do not cover things such as broken knobs, pots and jacks due to abuse. We build them to last but not to be thrown out of an airplane. However, we will repair problems that are out from under our warranty, like the above, at a very reasonable price. Several of our pedals have internal trim pots which are set and sealed very carefully for the function of the circuit, and it should be noted that tampering with the trim pots will void the warranty.



## PULP N PEEL V4



Studio grade compression that is truly transparent. Parallel clean blend for dialing in the perfect attack, EQ control, DI and 1/4" parallel outputs, built in switchable buffer and even a distortion circuit make The PnP V4 the ultimate end-all compressor for electric guitar and bass.

### Controls

**VOLUME** - Controls the output volume.

**COMP** - Controls the amount of compression.

**BLEND** - Blends in compression. All the way right is full compression/preamp tone while rolling it left brings in your original uncompressed tone.

**EQ** - Darkens or brightens your tone. Right is brighter, left is darker.

**DIRT TOGGLE** - Activates the overdrive circuit. The amount of overdrive is controlled by the trim pot on the right side of the pedal. Works in conjunction with the blend control.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.

### Jacks

**INPUT** - 1/4" jack on the right side of the pedal.

**1/4" OUTPUT** - 1/4" jack on the left side of the pedal.

**XLR OUTPUT** - XLR jack on the left side of the pedal for DI purposes with bass or acoustic instruments.

**GROUND LIFT** - Small switch on left side. If the DI signal creates a hum, this switch will take care of it.

**BUFFER SWITCH** - Small switch on right side. Turns the internal bypass buffer on or off.



## MINI BOMB BOOST



1"x3" of amp blasting, solo shouting, JFET boost that can change your rig for the better!

### Controls

**Volume** - Controls the output volume. When placed before your overdrives/distortions, it will create a more saturated tone. When placed after, you get the exact same tone except louder.

### Power

Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA consumption.

### Warranty

Our pedals carry an unconditional "Two Year" full warranty for ANY problem related to the function or operation of that pedal due to faulty parts and/or other internal problem. Simply show the receipt of purchase and we will honor it up to two years. We do not cover things such as broken knobs, pots and jacks due to abuse. We build them to last but not to be thrown out of an airplane. However, we will repair problems that are out from under our warranty, like the above, at a very reasonable price. Several of our pedals have internal trim pots which are set and sealed very carefully for the function of the circuit, and it should be noted that tampering with the trim pots will void the warranty.



## THE PRESTIGE



Add some magic to your tone with this booster/buffer/enhancer. The final act in small footprints boosts.

### Controls

**Volume** - Controls the output volume. Set at zero it works as a buffer/enhancer. In the first 25% range it gives different flavors of the buffer/enhancer as well as slight volume increases. In the 25 to 50% range you have a dynamic solo boost. At 50% or more it will send your amp into overdrive mode, pushing the tubes into the natural breakup you love about your amp.

### Jacks

**INPUT** - Jack on the right side of the pedal.

**OUTPUT** - Jack on the left side of the pedal.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.



## BUNRUNNER V2



The ultimate fuzz from modern hi-gain to vintage germanium. Every fuzz tone imaginable and more.

### Controls

#### Right Side - Tonebender

**Volume** - Controls the output volume.

**Fuzz** - Controls the amount of fuzz.

**Tone** - Controls the brightness. Works as a cut. Left is brighter, right is darker.

**Bias** - Controls the amount of voltage to the germanium transistors. Right is cleaner more voltage, left is dirtier less voltage causing more saturation.

#### Power

Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA consumption.

#### Left Side - Astro Mess

**Volume** - Controls the output volume.

**Fuzz** - Controls the amount of fuzz.

**Gate Toggle** - Down is gate off, up is gate on.

#### Warranty

Our pedals carry an unconditional "Two Year" full warranty for ANY problem related to the function or operation of that pedal due to faulty parts and/or other internal problem. Simply show the receipt of purchase and we will honor it up to two years. We do not cover things such as broken knobs, pots and jacks due to abuse. We build them to last but not to be thrown out of an airplane. However, we will repair problems that are out from under our warranty, like the above, at a very reasonable price.



## FOUR WHEELER V2



Bass fuzz that is nasty, beautiful, and flexible all in one casing. Gated or smooth tones that will bring your rig to another level. Great on guitar as well.

### Controls

**Volume** - Controls the output volume.

**Fuzz** - Controls the amount of fuzz.

**Tone** - This works as a tone cut. Left is brighter, right is darker.

**Gate** - Controls the amount of gate on the fuzz. Left is less gate, right is more gate for a harder break.

#### Power

Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA consumption.

#### Warranty

Our pedals carry an unconditional "Two Year" full warranty for ANY problem related to the function or operation of that pedal due to faulty parts and/or other internal problem. Simply show the receipt of purchase and we will honor it up to two years. We do not cover things such as broken knobs, pots and jacks due to abuse. We build them to last but not to be thrown out of an airplane. However, we will repair problems that are out from under our warranty, like the above, at a very reasonable price. Several of our pedals have internal trim pots which are set and sealed very carefully for the function of the circuit, and it should be noted that tampering with the trim pots will void the warranty.



## FIREFLY



A British inspired 3 Transistor Germanium Fuzz with a few tricks up it's sleeve. From overdriven grit all the way to a huge wall of fuzz, the Firefly will deliver classic dirt into any rig.

### Controls

**Volume** - Controls the output volume.

**Fuzz** - Controls the amount of fuzz.

**Tone** - Controls the brightness. Works as a cut. Left is brighter, right is darker.

**Bias** - Controls the amount of voltage to the germanium transistors. Right is cleaner more voltage, left is dirtier less voltage causing more saturation.

### Jacks

**INPUT** - Jack on the right side of the pedal.

**OUTPUT** - Jack on the left side of the pedal.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.



## MINI FOOT FUZZ



1"x3" of thick massive fuzz that will cut through a mix like a knife. From muff style sustain all the way to gated distortion.

### Controls

**Volume** - Controls the output volume.

**Fuzz** - Controls the amount of fuzz.

### Jacks

**INPUT** - Jack on the right side of the pedal.

**OUTPUT** - Jack on the left side of the pedal.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.





## MUFFULETTA

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*When you are hungry for fat, rich and legendary fuzz tones, look no further than the six course meal that the Muffuletta serves up.*

### Controls

**Volume** - Controls the output volume. Left is less volume, right is more.

**Sustain** - Controls the amount of fuzz which increases the sustain when turned up, just like the vintage units.

**Tone** - The tone on the Muffuletta is its own animal. Left is darker and more "muffy". Right is brighter with a pleasing shrillness. You will also find that the tone sweep changes the character of the pedal in ways that normal tone knobs do not.

**Version Selector** - This knob selects which of the 6 versions you want to play.



**The Civil War** - More midrange, brighter overall tone, and less gain.



**The Russian** - Less clarity, less low end.



**The Pi** - Best known for a more aggressive sound.



**The Triangle** - More low end and more articulate.



**'73 Rams Head** - Scooped midrange, less gain, and overall darker tone.



**JHS 2015** - More powerful, less compressed, and a more haunting midrange. Also best for bass guitar.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.



## POLLINATOR V2

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*The Pollinator V2 is the ultimate classic germanium based dirt box. It cleans up with your guitar's volume knob like a dream and covers a mile wide cavern of tones. The Pollinator has more mojo than a velvet painting of Hendrix!*

### Controls

**VOLUME** - Controls the output volume.

**GAIN** - Pre-gain control that works and interacts with the fuzz control. Right is more, left is less.

**FUZZ** - Controls the amount of fuzz. Right is more, left is less.

**BIAS** - Varies the direct voltage to the second stage transistor. Less voltage: dirtier, thinner, harsher. More voltage: bigger, cleaner, more powerful.

### Jacks

**INPUT** - Jack on the right side of the pedal.

**OUTPUT** - Jack on the left side of the pedal.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.



## LITTLE BLACK BUFFER

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*The greatest tool for your tone you never realized you needed. Fix all that tone loss from your true bypass pedals and long cable runs.*

### Controls

**Plug it in!**

### Jacks

**INPUT** - Jack on the right side of the pedal.

**OUTPUT** - Jack on the left side of the pedal.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.



## HONEY COMB DELUXE



Classic blackface and Voxy tremolo tones with two totally adjustable and foot-switchable speeds in a small footprint.

### Controls

#### JACKS

**Volume** - Controls the output volume. Can be set at unity or a slight boost.

**Depth** - Controls the depth of the tremolo.

**Speed 1** - Controls the speed of the tremolo when the green indicator LED is lit.

**Speed 2** - Controls the speed of the tremolo when the red indicator LED is lit.

#### FOOTSWITCHES

**Left Footswitch** - On/Off switch

**Right Footswitch** - Toggles between green speed and red speed.

*This pedal contains an internal switch that controls the speed range available. Up is stock speed mode, and down is slow speed mode.*

### Jacks

**INPUT** - Jack on the right side of the pedal.

**OUTPUT** - Jack on the left side of the pedal.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.



## THE EMPEROR



True analog bucket brigade Chorus and Vibrato with tap tempo waveform selection and more. Classic modulation with modern amenities.

### Controls

#### FOOTSWITCHES

**Bypass** - Left footswitch turns the pedal on and off.

**Tap Tempo** - Right footswitch taps in the speed.

#### KNOBS

**Volume** - Controls the output volume.

**Tone** - Controls the amount of brightness. Left is darker, right is brighter.

**Speed** - Controls the time/speed of the modulation.

**Depth** - Controls how deep or wet the modulation is perceived.

**Chorus/Vibrato Toggle** - Lets you choose between Chorus and Vibrato

**Waveform Toggle** - Choose between Sine, Square, and Triangle waveforms.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.

#### JACKS

**Input** - Receives your instrument's signal.

**Output** - Sends the signal out of the pedal to an amplifier or pedal chain. You can use an optional TRS splitter cable to send your signal to two amps for true stereo modulation.

**Tap/Exp.** - Choose which one you want by the internal switch. In Expression Mode, connect any TRS expression pedal to control the pedal's speed. The speed parameters are preset for realistic rotary speaker sound. In Tap Mode you can set the speed using an external tap tempo pedal.

#### INTERNAL SWITCHES

**TBP/BUF** - Choose between true-bypass or buffered bypass.

**TAP/EXP** - Choose between tap or expression for the Tap/Exp. jack.



## UNICORN



When everything has been done and everything has been seen, we bring you the first ever 100% analog signal path Uni-vibe\* Photocell Modulator w/ Tap Tempo.

### Controls

#### FOOTSWITCHES

**Bypass** - Left footswitch turns the pedal on and off.

**Tap Tempo** - Right footswitch taps in the speed/rate.

#### KNOBS

**Volume** - Controls the overall output volume.

**Depth** - Controls the intensity of the effect. Left is less effect, right is more.

**Speed** - Controls the speed/rate of the effect. Left is slower, right is faster. Will override the tap-tempo speed when rotated.

**Ratio** - Controls the ratio of the tapped speed. Choose 1/4, dotted 1/8, 1/8, triplets, or a blend in-between. This allows for faster speeds with fewer taps.

#### JACKS

**Input** - Receives your instrument's signal.

**Output** - Sends the effect to an amplifier or pedal chain.

**TAP/EXP** - Choose which one you want by the internal switch. In Expression Mode, connect any TRS expression pedal to control the pedal's speed. In Tap Mode you can set the speed using an external tap tempo pedal.

#### TOGGLE

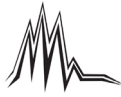
**Dry/Wet** - Choose between full wet vibrato style or add in the dry signal for the classic Uni-vibe sound.

#### INTERNAL SWITCH

**TAP/EXP** - Choose between tap or expression for the TAP/EXP jack.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.

*We suggest putting the Unicorn before overdrives in your signal chain.*



## WARBLE TRON



*Classic bulb driven Univibe chorus vibrato. Amazing response, low end and smoothness that will make you a believer in vintage modulation.*

### Controls

**Volume** - This is a volume cut, not a boost, intended to compensate for the volume boost on the vibrato setting.

**Depth** - Controls the depth of the chorus/vibrato.

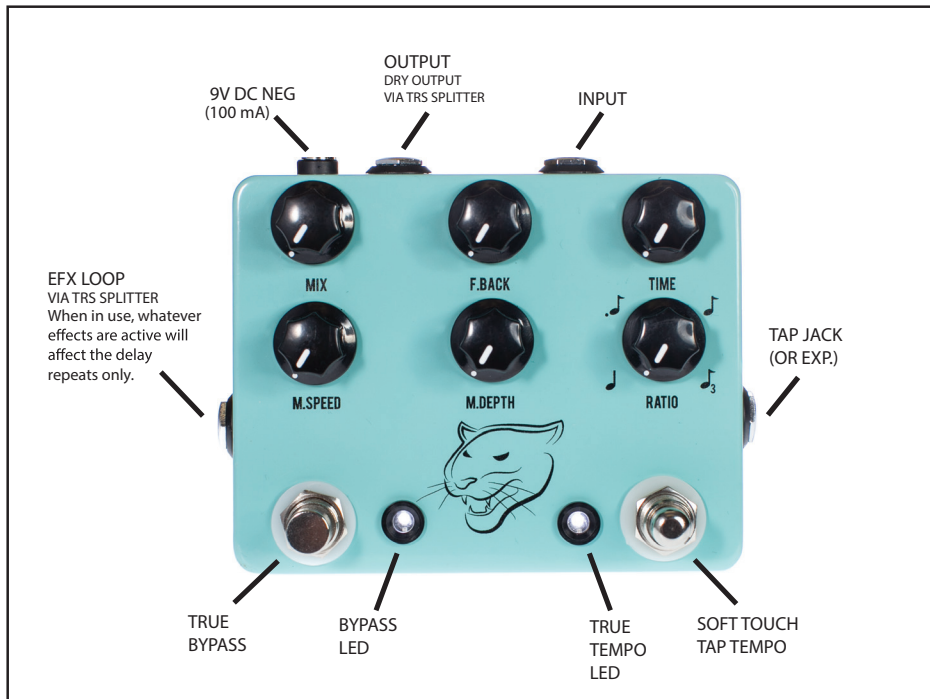
**Speed** - Controls the speed of the chorus/vibrato.

### Power

Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA consumption.

### Warranty

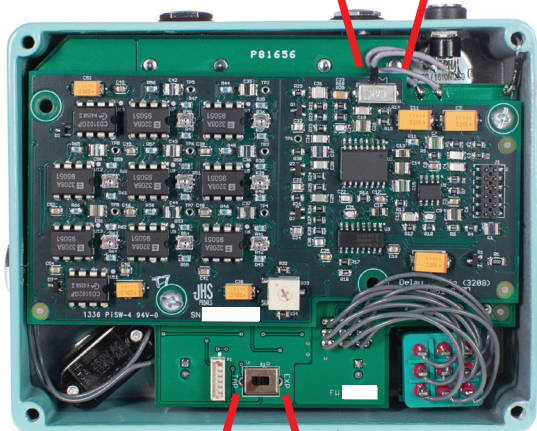
Our pedals carry an unconditional "Two Year" full warranty for ANY problem related to the function or operation of that pedal due to faulty parts and/or other internal problem. Simply show the receipt of purchase and we will honor it up to two years. We do not cover things such as broken knobs, pots and jacks due to abuse. We build them to last but not to be thrown out of an airplane. However, we will repair problems that are out from under our warranty, like the above, at a very reasonable price. Several of our pedals have internal trim pots which are set and sealed very carefully for the function of the circuit, and it should be noted that tampering with the trim pots will void the warranty.



EFX LOOP VIA TRS SPLITTER  
When in use, whatever effects are active will affect the delay repeats only.

toggle to the LEFT engages STOCK mode for warmer slightly darker repeats and less run-away oscillation.

toggle to the RIGHT engages ROAR mode for more run-away and oscillation available.



toggle to the LEFT engages Tap mode for external tap slaving

toggle to the RIGHT engages Expression Pedal mode

# PANTHER CUB

## ANALOG TAP TEMPO DELAY

Thanks for purchasing a Panther Cub Analog Delay pedal! In 2011 we released the Panther Analog Delay, almost exactly two years later we tried a nearly impossible feat of taking everything we love about the Panther Delay, making a few improvements, and packaging it into an enclosure half the size. We are proud to bring you the Panther Cub with true Bucket Brigade delay that has the tone and options to cover any style, any use, and any player. The Panther Cub Delay has a groundbreaking feature set including "tap tempo control" that lives within an all analog full second of delay time! The "effects loop" allows you to place any effect or effects chain on the repeats only. We kept the four section "Ratio Control" to give you 1/4, dotted 1/8th, 1/8th, and Triplet divisions. The built in "Modulation" gives you a shimmering Deluxe Memory Man type vibe and works perfectly even with tap in use. The Panther Delay was the first to do this! The internal "Roar" switch gives you two different levels/sensitivity of oscillation and runaway. As the user you have the ability to program an "expression control" to your favorite knob to use it to change settings on the fly! The "Tap In/Out" jack lets you remotely tap in a tempo or slave another tap device for amazing live flexibility. All this and more is powered by a standard 9v supply.

### FEATURES & SPECS

- 1000 Milliseconds of Delay (1 full second)
- 100% Analog signal path
- Eight 3208 Bucket Brigade Delay chips
- Efficient and compact 1590BB size case
- 4 position Ratio control (1/4, 1/8, dotted 1/8, Triplet)
- Standard 9v DC Negative power
- Soft-touch tap tempo
- Onboard Modulation (speed/depth) that stays accurate even when using Tap Tempo
- Internal ROAR switch (2 modes for run-away sensitivity)
- Dry Out (via TRS splitter) for Stereo Field of sound
- Space saving top mounted Input/Output jacks
- EFX Loop (via TRS splitter) that affects the repeats only
- "True Speed" LED (indicates the rate of the actual delay)
- Assignable Expression (expression pedal can control Speed, Ratio, Mod Depth, or Mod Speed)
- Improved and strengthened Feedback and Oscillation
- Improved Delay overall definition and strength
- Tap Input/Output allows external tap controller or slaving
- True Bypass switching

### CONTROLS

- MIX** - Controls the volume of the delay repeats only.
- FEEDBACK** - Controls the amount of delay repeats. In "Stock" (non-ROAR) mode the Panther Cub is designed to produce a warmer slightly darker repeat with less run-away oscillation sensitivity. In "ROAR" mode, the Panther Cub is designed to produce more run-away oscillation when Feedback Knob is set above 12 o'clock - 3 o'clock. The higher the Feedback Knob is set, the greater the amount of run-away oscillation will occur. Rollback the Feedback Knob below 12-3 o'clock to reduce and control the run-away.
- TIME** - Controls the delay time up 1000ms.
- MODULATION SPEED** - Controls the speed of the modulation.
- MODULATION DEPTH** - Controls the depth of the modulation. Roll this knob to the left to reduce or eliminate Modulation.
- RATIO** - Controls the tap subdivision: Quarter, Dotted-eighth, Eighth, and Triplet note divisions. The setting of the Ratio control applies constantly whether using Tap Tempo or when manually adjusting the Time knob.

### INTERNAL CONTROLS

- ROAR SWITCH** - With the backplate removed you will see a small dip-switch located towards the top-right corner of the circuit board. This 2-position dip-switch is labeled ROAR switch. This switch offers two slightly different styles of repeats and offers two different sensitivity levels of run-away oscillation. With the switch in the LEFT position the pedal is in Stock or non-ROAR mode. When the switch is in the RIGHT position the pedal is in the ROAR mode. Panther Cub pedals are shipped directly from the JHS Pedals workshop in Stock (non-ROAR) mode.
  - STOCK MODE** - Dip-switch in LEFT position, produces slightly darker/warmer repeats and more subtle run-away oscillation sensitivity.
  - ROAR MODE** - Dip-switch in RIGHT position, produces a slightly brighter repeat and is more sensitive to run-away oscillation in this mode. If run-away oscillation is too intense to your liking, roll back the Feedback knob until it cleans up to your taste.
- TAP/EXPRESSION SWITCH** - With the backplate removed you will see a small dip-switch located towards the bottom-center of the circuit board. This 2-position dip-switch is labeled and gives you the option to use the corresponding 1/4" jack as an external Tap Tempo jack Input for Syncing or a Tap Tempo jack Output for slaving. With the switch in the right position, the corresponding 1/4" jack can be used with any TRS Expression Pedal (we suggest M-Audio expression pedal) while in "Program Mode."

### PROGRAM MODE

The Panther Cub also includes Program Mode which functions exactly as it did in the Panther Analog Delay pedal. To enter Program Mode, hold down the tap-tempo footswitch for 3 seconds until the tap LED turns off indicating the pedal is in Program Mode. While in Program Mode, you can assign an Expression Pedal to control one of the following by turning the knob: Time, Mod Speed, Mod Depth, Ratio. Once you turn the knob of your choice, exit Program Mode by hitting the tap tempo switch. After exiting Program Mode, your expression pedal will now control the function of the knob you chose.

### POWER

This pedal cannot be powered by a 9V battery. It requires the use of a standard 9V DC, regulated, center-pin negative power. Use of a power supply other than mentioned may cause damage to the pedal and void the warranty of this unit. To avoid damage of your pedal, please do not use AC power or supplies providing other than 9V of power. 100mA consumption.

# ALPINE REVERB

## INTRODUCTION

Thanks for purchasing the JHS Pedals Alpine! In a world full of reverb pedals we are proud to offer up a highly tweakable, versatile, inspiring and cost effective solution for any situation your gig might throw at you. The heart of the Alpine's design is the idea that you can have a reverb pedal that is straight forward, easy to use but also extremely powerful in its functions and approachable without needing a degree in computer engineering.

## INPUTS/OUTPUTS

The Alpine has your standard Input and Output jacks like most pedals but we also give you a TRS Effects Loop jack just like our Panther Cub Delay so that you can insert any pedal or effect unit you want within the reverb signal itself for infinitely tweakable sounds. Simply plug in a TRS splitter cable and insert your favorite octave pedal and you now have a shimmer effect. Insert a delay for huge ambient pads or even an EQ for fine control of the frequencies and shape of the reverb effect. On your splitter cable the RING goes to the output/return of the effect you are using in the loop and the TIP goes to the input/send of that same effect.

## SWITCHES

The Alpine features two footswitches, the left is on/off and the right is the "Shift" footswitch. The "Shift" footswitch engages the "Shift" knob, essentially acting as preset.

## CONTROLS

**REVERB** - This control is essentially a wet/dry mix knob that lets you set the perfect balance and feel to how saturated the effect feels. Left is less, right is more.

**HIGHS** - This control is in function a high pass filter or highs roll off that lets you darken or brighten the overall effect when engaged. Left is darker, right is brighter.

**DEPTH** - Controls adjusts the size or space of the reverb. Left is smaller, right is bigger.

**LENGTH** - Controls adjusts the tails/decay time of the overall reverb. Left is shorter, right is longer\*.

**SHIFT** - Controls the amount of reverb when the "Shift" footswitch is engaged. Left is less, right is more.

## INTERNAL "SHIFT" SWITCH

Inside the Alpine you will find a small switch that says (EFX LOOP) and two positions labeled (SHIFT ONLY) and (ALWAYS ON). When this switch is in the "Always On" position, the effects loop works on the un-shifted setting as well as the shifted setting. When the switch is in the "Shift Only" position the effects loop only engages when you engage the "Shift" footswitch setting. This allows you to have your normal reverb setting and then hit the "Shift" footswitch to activate your "Shift" knob setting and your EFX Loop at the same time for two very different sounds on the fly. Out of the box the switch is set to "Shift Only". If you want the loop always on, flip the switch!

## BYPASS/TRAILS

The Alpine has a very high quality buffered bypass that restores lost signal in your rig by correcting impedance and driving the load of your signal to your amp. This also allows for the trails of the reverb signal to gradually die off when bypassed instead of cutting off abruptly.

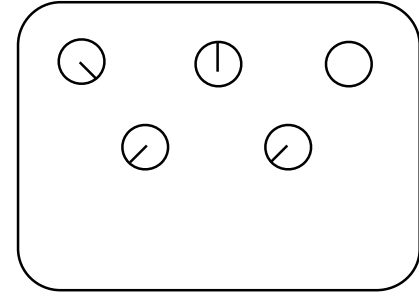
## POWER

The Alpine uses standard 9v center pin negative 100ma power.

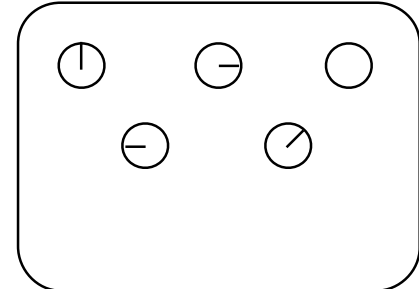
**\*The Alpine will self oscillate when the length knob is turned all the way up. After a period of time it will stop oscillating and "latch up". To reset, unplug power cable and plug back in. Although the Alpine does do this, it is not a recommended setting. Have fun!**

## SAMPLE SETTINGS

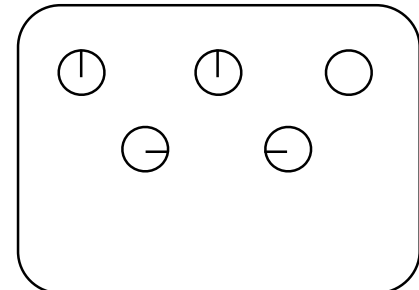
### BATHROOM



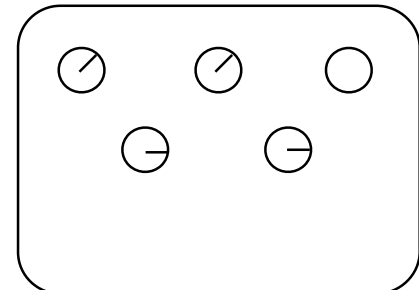
### SPRINGY



### HALL OF GLORY



### SPACE CAVE



# COLOUR BOX

## STUDIO GRADE PRE-AMPLIFIER

### INTRODUCTION

Thanks for purchasing a Colour Box! The JHS Pedals Colour Box is designed and created to allow you to recreate the infamous guitar tones of the Beatles, Pink Floyd, Led Zeppelin, and countless others with your live rig, or in a studio environment by using 100% analog circuitry true to the design and schematic of vintage Neve\* circuitry. The Colour Box is completely free from any digital modeling. Never before have "direct in" tones been available from your guitar amp in the way that the Colour Box delivers them. Aside from creating these "direct in" tones, the Colour Box covers all the ground that you would expect a high quality studio preamp to cover. From your microphone, bass, keyboard, or even your acoustic guitar, it does it all. We have gone to great lengths to bring the color and character of a real vintage console to your feet or studio desktop.

### INPUTS/OUTPUTS

You will notice that in addition to the normal 1/4" instrument input/output found on a guitar pedal, we added an XLR input and output so that The Colour Box can be used as a vocal, bass, acoustic, or keyboard preamp live or in the studio. The 1/4" mono output and the XLR output are independent and allow you to run parallel outputs to two destinations. For example, run the 1/4" mono out into your guitar amplifier and at the same time run the XLR output to your front-of-house mixing board. Another example of using parallel outputs would be to track amp tones and the "direct in" sound of your performance onto two separate tracks.

### UTILITY SWITCHES (LOCATED ON SIDE)

**1/4" / XLR SWITCH** - This switch lets you choose between 1/4" or XLR input. Set the switch to "1/4." when plugging in a 1/4" jack. Set the switch to "XLR" when plugging in an XLR cable.

**-20dB SWITCH** - This is a standard 20dB pad for use with the XLR input. Use this if you're experiencing clipping from the XLR input and know that the pad works whether the pedal is on or off. This pad does not have any effect if using the "Inst" input.

### CONTROLS

**MASTER** - The Master Gain (labeled "Master") is what would typically be considered as a Volume control. Other terms are "master volume" or the "output trim."

**PRE-Vol** - The Pre Volume (labeled "Pre-Vol") can be used the same as you would a Drive knob on an overdrive pedal. In this circuit, the Pre Volume is between the two gain stages, and the setting of the Pre Volume determines how much signal continues to the second stage.

**STEP** - The Step Gain (labeled "Step") changes the gain of each preamp stage in five stages. Rotating the "Step" knob from left-to-right will increase the gain by the following:

1st is X 18 dB , 2nd is X 23 dB , 3rd is X 28 dB , 4th is X 33 dB , 5th is X 39 dB

**HI PASS** - The Highpass spans from 60Hz to 800Hz with a 6dB per octave slope. This control allows you to only let high frequencies pass. In return you will find a vast palette of tones that sit perfect and inspire textures that you have never heard from your rig. The toggle switch will turn the Highpass on or off.

**EQ CONTROLS** - The tone control section is a highly modified Baxandall type that is tuned for less control interaction and more boost/cut capability. The center frequencies are Treble 10kHz, Middle 1kHz, and Bass 120Hz, with +/- 17dB of control.

### POWER

The Colour Box runs on 18v DC negative center power. We supply an adapter but you can also use any standard 18v DC pedal power supply or voltage doubling cable like the Voodoo Lab found here: [http://www.voodoolab.com/shop/index.php?cPath=22\\_24\\_32](http://www.voodoolab.com/shop/index.php?cPath=22_24_32).

### INPUT MODES & OUTPUT FUNCTIONALITY

The Colour Box offers two different Input Modes and you must choose which mode you need based on your application. There is a Input Selector switch on the side of the case which is labeled 1/4"/XLR. Simply put, use "Instrument" mode when you are plugging in a 1/4" cable into the Colour Box. Use the "XLR" mode when you are plugging an XLR cable into the Colour Box. You must select between Inst/XLR mode in order for the pedal to correctly work. If you plug in a 1/4" cable but have selected XLR Mode, the pedal will not work. The reverse applies as well. Here is a further description of the two modes and their applications...

#### 1. 1/4" INPUT MODE

When in INSTRUMENT MODE, there are two options of use that are further explained below. The Colour Box can be used as an always-on Preamp/DI OR it can be used as an effect which is turned on/off.

**USE AS AN "EFFECT PEDAL" (aka turning the pedal on/off while playing)** - If you plan to use the Colour Box as an effect pedal and will be turning it on/off while playing, then you HAVE to use the 1/4" Output. The XLR output can be used at any time in any Mode, but it will only pass signal when the Colour Box is turned on. To use the Colour Box as an effect pedal, simply connect the 1/4" output into any amplifier (guitar/bass/keyboard), mixer, recording interface, or direct box and use the pedal as you normally would use any other guitar/bass pedal in your rig. If you use the Colour Box as an effect where you will be turning it on/off, we recommend only using the standard 1/4" output and not relying on the XLR output since the XLR output will be inactive anytime the pedal is turned off. As a rule-of-thumb, please remember (in Instrument Mode) that if the Colour Box is turned off, the XLR Output is totally inactive and will not pass signal, however the 1/4" output will always pass signal (either bypass signal or effected signal).

**USE AS AN ALWAYS-ON "PRE-AMP / DI BOX"** - When using the Colour Box as an ALWAYS ON preamp, you can use the XLR output to plug straight into an audio mixer or recording interface and there is no need to use a separate direct-box. In an always-on circumstance, the 1/4" output will also pass effected signal to whatever it is plugged into as long as the pedal is ON, this allows you to split your signal to two separate sources at the same time. The XLR output will only pass signal when the Colour box is turned on.

#### 2. XLR/Microphone INPUT MODE

In this mode, the pedal accepts XLR microphone cables and passes a clean bypass signal through the XLR Output when switched off. The 1/4" output also passes signal in this mode so you can pass a microphone through the Colour Box into an amp or line level input. The 20dB pad is available in this mode only and works when the pedal is on and off.

\* in both modes the XLR out has a slightly lower noise floor if running as a line-in to your mixer or interface.

\* **If you need more clean headroom for acoustic instruments or any other instrument that is distorting the Colour Box in an undesirable way, use an unbalanced 1/4" to XLR male cable from your instrument into the XLR input.**

\*The word/name Neve® is a registered trademark of AMS Neve Ltd. The JHS Pedals Colour Box pedal is in no way affiliated with AMS Neve Ltd.



## THE CRAYON



*British voiced preamp distortion, fuzz, overdrive, and boost in a versatile small footprint that follows in the shadow of the our Colour Box. Looking for a different dirt sound? Look no further.*

### Controls

**Master** - Controls the output volume.

**Pre-Vol** - Works as a drive or fuzz control like turning up the pre-volume on a preamp. As you reach 75% and above, the fuzz will begin to gate out when picking the strings harder.

**Tilt** - Active tone control that is flat when the knob is at 50%. When turned to the left it will boost bass and simultaneously cut treble. When turned to the right it boosts treble and cuts bass.

### Jacks

**INPUT** - Jack on the right side of the pedal.

**OUTPUT** - Jack on the left side of the pedal.

**POWER** - Uses 9V DC Negative Center. Do not use more than 9V DC. Your warranty will be voided. 100mA max consumption.

## ABOUT JHSPEDALS

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JHS Pedals is an American company located in Kansas City USA that started in 2007 when Joshua Scott fixed some broken pedals and modded some existing classics. Today JHS Pedals has evolved into a respected and well recognized boutique pedal company with products that are available at over 200 Dealer locations worldwide. Our offerings include a Modification Shop, Custom Shop, Hand Painted pedals, Bass Effects, and the ever growing core line of Guitar Effects. Our goal is to deliver the service, quality, and unique tones that you want and need as a player. You can purchase a JHS Pedal knowing that you are employing real people who live in the midwest of America; people who put quality first when caring for each pedal by hand.

JHS Pedals is located on the outskirts of Kansas City, Missouri.

12411 Grandview Road  
Grandview, MO 64030

We can be reached by phone Monday through Thursday  
9:00am–5:00pm CST by calling 816.216.7953

**[www.jhspedals.com](http://www.jhspedals.com)**



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