

SUHR SE-100 Hand Wired Amplifier- User Guide

The Wait is Over... High gain addicts no longer have to wait up to two years to get the highly sought after SE overdrive modification (mod). For many years artists all over the world have sent us their beloved master volume amps to be modified. As part of the mod process, and to ensure reliability, these amplifiers undergo a complete overhaul; essentially transforming their old amplifier into a bullet-proof, high gain machine.

Due to the overwhelming demand for this mod, we have developed the SE-100 Hand Wired amplifier - the ultimate single channel high gain amp. The SE-100 Hand Wired incorporates our sought after SE 3+pre-amp mod, paired with a finely tuned '68 plexi output power section, which delivers a variety of classic and modern high gain overdrive tones, and 100 watts of power that you can feel at your fingertips.

Every SE-100 Hand Wired is meticulously handcrafted and offers a number of unique features such as: four gain stages, a plexi-style output transformer, and a bypassable low impedance tube effects loop optimized to interface with line level rack gear.

For high gain addicts, this amp delivers muscular British crunch, chest pounding high-gain, and well defined, bone crushing drop tuning tones - *all with a simple turn of the gain knob!*

OPERATING INSTRUCTIONS

Power Select Switch

Offers the following two-positions:

OFF: Power is switched off

ON: On, normal operation

Standback/Standby

With the power switch in the OFF position and the Standby switch in the Standby position, flip the power switch to ON. Wait sixty seconds, then flip the Standby switch to the Standback position.

To power down, switch the amplifier from Stand Back to Standby, then the power switch to the OFF position.

Note: *To avoid loud popping or damage, ensure the amplifier is in the Standby position.*

Tubes

The SE-100's tube complement consists of four EL-34 power tubes and five 12AX7 preamp tubes.

CONTROLS

Presence

Adjusts the amount of high frequencies. Turning it clockwise adds sparkle and brightness to cut through a mix.

Bass

Adjusts the amount of low end. Turning it clockwise increases the amount of low frequencies, giving you a fuller bass response. Turning it counter clockwise reduces bass and tightening up the bottom-end. This can be very useful when performing at louder volumes, and with higher gain settings.

Middle

Adjusts the amount of midrange in your signal and offers the following tonal options:

- **Classic Rock:** settings between 4-6 offers more punch and openness well suited for fat Classic Rock style tones.
- **High Gain & Metal:** settings between 2-3 produces a mid-scooped sound, useful for dialing in a stiffer feel for more aggressive High Gain, Metal and Drop Tuning playing styles.

Treble

Adjusts the top end. Turning it clockwise increases the amount of treble, giving your tone clarity and cut. Turning it counter clockwise produces a warmer sound, excellent for dialing in smoother fluid-like lead tones.

Level

Adjusts the overall output level.

Gain

Adjusts the amount of pre-amp overdrive added to your signal and offer the following tonal options:

- **Classic Crunch:** settings between 1-3 offer a variety of British crunch rhythm tones with excellent clarity and articulation.
- **High Gain:** settings between 4-6 offer a dramatic increase in gain with extended low-end thump without loss of definition taking you from Hard Rock to 80's Heavy Metal.
- **Metal/Drop Tuning:** settings between 7-10 offer increased saturation, harmonics for additional sustain and character when playing drop and alternate tuning playing styles.

Input

Instrument Input

Effects Loop

The SE-100 has a tube buffered, low impedance series effects loop that is designed to accommodate line level effect processors.

Note: We do not recommend using instrument level stomp boxes in the effects loop to avoid the possibility of overloading your effects device.

Using The Send and Return Jacks

Send - Connect the input of your effects device to the Send jack.

Note: The SE-100's Send jack is always active. This can be used to send the pre-amp section of the SE-100 to an external power amp for a wet/dry/wet effects setup.

Return - Connect the output of your effects device to the Return jack.

Note: This jack can also be used to access the SE-100's power section.

IMPORTANT: Never plug the speaker output of an amplifier to this jack.

Send Level - Adjusts the output level of pre-amp signal sent to your effects device/audio source.

Effects Loop Switch - This switch is responsible for activating/bypassing the series effects loop.

- Selecting **Active** will engage the effects loop into the signal path.
- Selecting **Bypass** will remove the effects loop from the signal path.

Depth

Adjusts the amount of low-end boost added to the amplifiers power section. This provides more bottom end while retaining focus and clarity.

Speaker Outputs

Two loudspeaker outputs wired in parallel with 3-way impedance selector switch for 4Ω, 8Ω & 16Ω.

IMPORTANT: To avoid damage to your amplifier, do not operate without a speaker or suitable load.

SPECIFICATIONS

Output: 100 Watts RMS

Tubes: four EL34 & five 12AX7

Front Panel: Power Select Switch, Presence, Bass, Middle, Treble, Gain controls and Input

Back Panel: Effects Loop: Send, Return, Send Level and Bypass/Active switch, Depth, 2-Speaker outputs, Impedance selector (4Ω, 8Ω, & 16Ω), HT Fuse, Mains Inlet and Mains Fuse

Dimensions: 29 1/8" x 12.5" x 8.5"

Weight: 58 lbs.

SAMPLE SETTINGS

CRUNCH

Presence	Bass	Mid	Treble	Level	Gain	Depth (back of amp)
4	3	3	4	3	2	5

HARD ROCK

Presence	Bass	Mid	Treble	Level	Gain	Depth (back of amp)
5	3.5	2.5	4	3	3	5

DROP TUNING CHUNK

Presence	Bass	Mid	Treble	Level	Gain	Depth (back of amp)
6	3	3	5	3	6	6

INSANE GAIN

Presence	Bass	Mid	Treble	Level	Gain	Depth (back of amp)
6	4	3	5	3	7	6

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 & B, 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 retail purchase 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 setup 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.

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