

*Suhr*®

# Badger 18™

USER MANUAL





# Badger 18

This 18-watt, all-tube amplifier offers a wide range of classic guitar sounds. Driven by a cathode biased EL-84 power section and features a 5Y3GT **tube** rectifier, the Badger 18 delivers a variety of warm, sparkling cleans and rich, dynamic overdrive tones.

Whether playing a large stage, small club or your home studio, Badger's Power Scaling feature provides added flexibility. This makes it easy to dial in your ideal tone at any volume - from loud and cranked, all the way down to one watt.



---

**ON/OFF:** To power up the Badger 18, flip the ON/OFF select switch to the ON position. To power down, simply switch the power switch to the OFF position.

---



---

**Power:** Power Scaling emulates the tonal response of a high wattage amp on 10, at manageable volumes. Power controls the voltage that feeds the output section and in turn, the wattage. As you lower the voltage of the power section you are reducing the amount of signal it can handle before clipping the output section. To compensate for this we use the "Drive" control so you can easily scale down to 1 watt without losing tone & feel.

---

**Tone controls:** Bass, Middle and Treble tone controls for each channel are post-gain and passive cut-style. We recommend starting around 5 and dialing to taste. As you increase Gain and/or Drive we recommend dialing back the Bass to retain clarity and definition in the low-end.

---

**Gain:** Controls the amount of preamp gain by controlling 2 cascading gain stages simultaneously to drive the input stage.

---

**Drive:** Feeds the input to the power section. With Power at 10 it acts as a master volume. As a rule of thumb, when you turn down the Power always set the Drive control within 2 numbers of the Power setting. If you set the drive lower than the power it will sound brighter, like a "master volume" amp.

---

**Note:** Keeping the Drive within 2 numbers of the Power setting will retain the natural amp overdrive characteristics all the way down to 1 watt.

---

**WARNING:** Setting the Drive control more than 2 numbers higher than the Power setting will cause the output section to clip beyond what is typical and may produce artifacts and compression that the user may or may not find appealing.

---





**Tube-Buffered Effects Loop:** Performs equally well with pedals and line-level rack gear. For best results ensure that the effects unit is set to unity gain.

**Speaker Outputs:** Includes two sets of speaker outputs wired in parallel:

8  $\Omega$  OHM:(1 @8 $\Omega$  or 2@16 $\Omega$ )

4 $\Omega$  OHM :(1 @4 $\Omega$  or 2@8 $\Omega$ )

**A.C. Fuse:** This fuse is connected to the AC primary side of the Power Transformer.

**1.25A/250V Slo-Blo (100v/120v)**

**.750A/250V Slo-Blo (220v/230v/240v)**

**CAUTION** - Never use a fuse with a higher amperage rating.





**Tubes:** The Badger 18 tube compliment consists of two EL84 power tubes, three 12AX7 preamp tubes and one 5Y3GT\* rectifier tube.

*\* When replacing the rectifier tube, we require you change it with a new 5Y3GT. Using the 5Y3GT will ensure your Badger's internal voltages operate properly.*



## SAMPLE SETTINGS

**Max Clean Headroom:** Power: 10, Drive: 10, Treble: 5, Middle: 5, Bass: 5, Gain: 2-3



**On The Edge:** Power: 7, Drive: 8, Bass: 4, Middle: 7, Treble: 7, Gain: 4-5



**Crunch:** Power: 6, Drive: 6, Bass: 4, Middle: 5, Treble: 5, Gain: 6-7



**Saturated Lead:** Power: 10, Drive: 4, Bass: 3, Middle: 6, Treble: 6, Gain: 8-10



## **SPECIFICATIONS:**

Output:	18 Watts
Tubes:	2-EL84, 3-12AX7 and 1-5Y3GT
Combo speakers:	1x12" WGS Veteran 30
Panel controls:	On/Off, Power, Drive, Bass, Middle, Treble, Gain
Outputs:	Dual speaker outputs: 4Ω, 8Ω & 16Ω impedance
Cabinet:	Void free Baltic birch ply
Dimensions:	<b>Head:</b> 20.5" wide x 9.25" high x 8.25" deep, <b>Combo:</b> 20.5" wide x 24.75" high x 11.0" deep
Weights:	<b>Head:</b> 31 lbs, <b>Combo:</b> 66 lbs
Included Accessories:	Padded Cover
Also Available:	Matching Suhr 1x12" and 2x12" cabinets with WGS speakers

## **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.

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.