

# PITTBULL

## HUNDRED/CLX



VACUUM TUBE GUITAR AMPLIFIER  
MODEL G-100-CLX  
OWNERS MANUAL



## WELCOME TO THE FAMILY

Congratulations and thank you for choosing the PITTBULL HUNDRED/CLX Guitar Amplifier!

At Fryette Amplification, we know you are constantly searching for new sounds and new ways to improve your existing sound. We understand the constantly evolving nature of artistic creativity and the search for the perfect sound to complement your ever-widening musical vision. Providing the tools to help you to create your own sonic signature is our primary mission.

The Pittbull Hundred/CLX Master Built Series Amplifier is without question one of the finest, most expressive, most versatile amplifiers ever created. Each amplifier is hand built from individual component inspection right down to every last solder connection and then signed by our most experienced and meticulous amplifier Master Builder. Upon completion, tubes are carefully selected and matched; the amplifier is then pre-tested and burned in for a minimum of 72 hours. In the next test stage, all functions and features are tested, final tube selection and biasing takes place, and then channel voicing is evaluated and messaged to perfection. Before his signature goes on the amp, each CLX is thoroughly personally play-tested by Steven Fryette to assure flawless performance.

Specially designed, precision wound power and output transformers produce optimum performance, reliability and stability, delivering excellent power tube response and just the right amount of natural output transformer saturation and compression.

Getting familiar with the Hundred/CLX amplifier is easy, so don't be terribly surprised when you find yourself up and running in no time. First hand experience and real world application will yield the ultimate satisfaction of finding your own path of comprehension and self-expression.

# FRONT PANEL FUNCTIONS



## FRONT PANEL, LEFT TO RIGHT

1. INPUT HI - High sensitivity input (also has a brighter tone)
2. INPUT LOW - Low sensitivity input (also has a slightly darker tone)

### LEAD CHANNEL CONTROLS

3. LEAD EDGE SWITCH - Frequency dependent gain boost; gain increases as you play up the neck (it's subtle)
4. LEAD GAIN - Amount of overdrive
5. LEAD CHANNEL SWITCH - Activates Lead Gain, Volume and Edge. Overrides Rhythm and Clean channels. Must be OFF for Rhythm and Clean channel to operate.
6. HI GAIN SWITCH - Gain Stacking Switch. Activates additional tube overdrive gain stage.
7. LEAD VOLUME - Activated by LEAD (5) Pre FX loop

### RHYTHM CHANNEL CONTROLS

8. RHYTHM BOOST SWITCH - Switches from low (clean to slightly dirty) to medium gain (crunch to medium overdrive)
9. RHYTHM GAIN - Activated by Rhythm (10)
10. RHYTHM CHANNEL SWITCH - Toggles between rhythm and Clean channel
11. RHYTHM VOLUME - Activated by Rhythm (10) Pre FX loop
12. RHYTHM EDGE SWITCH - Same function as Lead Edge for Rhythm channel

### SHARED LEAD/RHYTHM CHANNEL CONTROLS

13. TREBLE - Active for both Rhythm and Lead channel
14. SHIFT SWITCH - Active for both Rhythm and Lead channel. Shifts Treble, Middle and Bass shelving down.
15. MIDDLE - Active for both Rhythm and Lead channel
16. BASS - Active for both Rhythm and Lead channel

### CLEAN CHANNEL CONTROLS

17. CLEAN VOLUME - Gain and volume for Clean channel, pre FX loop. For initial set-up, set to approximately 2 O'clock with Master Volume at approximately 2 O'clock and match Rhythm Volume and Lead Volume to desired setting
18. CLEAN BOOST SWITCH - Gain boost for Clean channel
19. TREBLE
20. BRIGHT - High frequency boost (becomes less active as Volume increases)
21. MIDDLE
22. SHIFT SWITCH - Low midrange boost between Middle and Bass frequencies
23. BASS

### GLOBAL CONTROLS

24. GRAPHIC EQ - 100Hz, 250 Hz, 630 Hz, 1.2KHz, 2.3KHz, 5KHz  $\pm$  12 dB cut or boost per band. Activated by rear panel pushbutton or footswitch.
25. MASTER VOLUME - Global power amp volume control, post FX loop. Controls volume of all 3 channels.
26. STANDBY - Turns on high voltage to output section and selects between full-power or half-power operation. Standby switch settings: II= Full Power (4 power tubes) ; 0= Standby, I= Half Power (2 power tubes).
27. MAINS - Switches main AC power on or off.

# REAR PANEL FUNCTIONS



## REAR PANEL, LEFT TO RIGHT

1. GROUND SWITCH – Select position which yields quietest operation. With a properly wired AC outlet and factory supplied AC cord, this switch will not produce a noticeable difference.
2. AC MAINS INPUT – Connect to a grounded outlet in accordance with the voltage and frequency specified on the rear panel of your amplifier.



***Use only the factory supplied cord set or a UL approved equivalent type.***

3. MAINS FUSE – Protects the amplifier from electrical faults. Replace only with type and rating specified on the rear panel of your amplifier.
4. DC FUSE – Protects the power supply and output transformer from electrical faults. Replace only with type and rating specified on the rear panel of your amplifier.



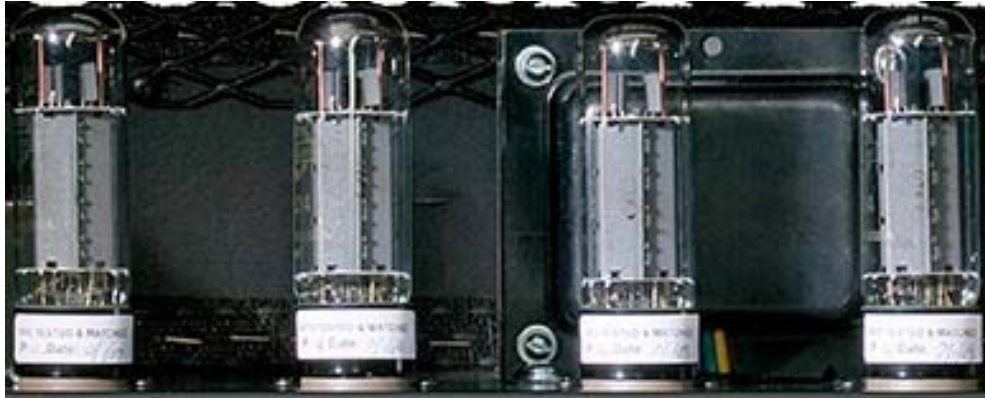
***Warning! Replace only with same fuse type and rating.***

5. POWER AMP MODE: MUTE - Deactivates power amp while leaving preamp active.
6. POWER AMP MODE: DUAL-CLASS – In Class AB mode all 4 power tubes operate in Class AB. In DUAL-CLASS the 2 outside power tubes are Cathode Biased while the inside 2 remain in Class AB. This produces a fatter midrange and smoother top and bottom end response.
7. IMPEDANCE SELECT - 4, 8 or 16 ohms. Example: Two 8 Ohm cabs = 4 Ohms, two 16 Ohm cabs = 8 Ohms.
8. SPEAKER OUTPUT – Parallel wired jacks. Impedance switch setting should equal total of all cabinet impedances plugged into both jacks. “Use First” jack must be plugged in for output to operate.
9. LINE LEVEL - Power amp line level control.
10. LINE OUT - Power amp line out jack.
11. FOOTSWITCH – Connector for footswitch controller.
12. EQ IN/OUT SWITCH – Manual Bypass switch for Graphic EQ. Must be in OUT position for footswitch function to operate.
13. EFFECTS - Activates F/X Loop. Also activated by footswitch jack.
14. EFFECTS RETURN - Overall level adjusted by Hi/Low switch, then feeds to EFFECTS LEVEL. Also serves as power amp input.
15. SERIES/PARALLELSWITCH – Sets loop for Series or Parallel operation. See FAQs at [www.vhtamp.com](http://www.vhtamp.com) for a complete explanation about Series and Parallel loop operation.
16. EFFECTS LEVELSWITCH - Sets overall send and return level (LOW = -10dB, HI = 0dB).
17. EFFECTS SEND - Send level set by preamp volumes. Also serves as preamp output for recording and slaving.
18. EFFECTS LEVEL/MIX - Sets return level for effects loop in Series Mode. Determines effects blend in Parallel Mode
19. PRESENCE - Active, all three channels
20. DEPTH - Variable damping.

**NOTE:** When switching to half power mode (standby switch in Position I) impedance selector value can be divided by two to compensate for the impedance mismatch caused by Half Power Mode.

**EXAMPLE:** Impedance setting “8” for 16 ohm speaker, Impedance setting “4” for 8 ohm speaker, etc. While not necessary, it may help extend tube life and maintain low-end punch. Experiment with it both ways.

## TUBE FUNCTION AND LOCATION CHART



Preamp tube locations are indicated by tube type on the rear panel of the chassis. Tube types are factory selected for superior performance, consistent tone quality and reliability. While substituting other brands may not cause damage to the amplifier this may affect amplifier performance in unpredictable ways. For best performance, replace only with factory recommended tubes. **Warning!** Substituting other tube types is not recommended.

Each 12AX7 has two sections/functions. Section A is shown first, Section B is second. Factory recommended tubes are listed under each location. Numbering sequence is right to left looking at back of amp starting with the row closest to front panel of amp.

V1 (shielded tube) 12AX7A Tung-Sol 12AX7WB Sovtek 12AX7 China Selected	Input Gain Stage 1 (Parallel Triodes).  Use in place of Tung-Sol for more smooth top end and decreased mid gain. Use in place of WB if more overall gain is required.
V2 12AX7 China	Gain Stage 2 for Lead channel. Gain Stage 3 for Lead and Rhythm channels. Active when either Gain Switch is set to HI.
V3 12AX7 China	Gain Stage 4 for Lead and Rhythm channels. Tone Control Driver for Lead and Rhythm channels.
V4 12AX7 China	Gain Stage 2 for Clean channel. Gain Stage 2 for Rhythm channel.
V5 12AX7 China	Phase Inverter
V6 – V9 EL34 Mullard (Russia) EL34 Svetlana (Russia) EL34 EH (Russia)	Power Tubes

## TROUBLESHOOTING GUIDE

### **WON'T TURN ON**

1. Make sure AC cord is securely connected at both ends.
2. Verify the power source with something you know works.
3. Check the mains fuse, and replace if necessary (if it blows again, refer to qualified service personnel).

### **NO SOUND**

1. Check input cables.
2. Check volume controls.
3. Make sure the selected channel volume and/or gain controls are turned up.
4. Check to see if the effects loop is engaged and the level turned down.
5. Check speaker cable to see if it is disconnected or shorted.
6. Make sure that the impedance selector is fully engaged in its detent.
7. Check the standby switch.
8. Check the DC fuse. If blown, replace with a F1A 250V fuse (if it blows again, refer to qualified service personnel).
9. Check for blown speakers.

### **WONT SWITCH CHANNELS**

1. Make sure footswitch is securely connected.
2. Make sure front panel channels switches are in the OUT position when using footswitch.

### **BOOST FOOTSWITCH FUNCTION NOT OPERATING**

1. Make sure footswitch is securely connected.
2. Front panel BOOST switch must be ON for BOOST footswitch to operate.

### **EFFECTS FOOTSWITCH FUNCTION NOT OPERATING**

1. Make sure footswitch is securely connected.
2. Rear panel FX IN/OUT switch must be in the OUT position for EFFECTS footswitch to operate.

### **RUNNING HOT**

1. Make sure that the unit has adequate ventilation.
2. Make sure that the impedance selector is set to the proper impedance.
3. Power tubes may be under-biased (refer to qualified service personnel).

### **DISTORTION/LOSS OF POWER**

1. Check the speakers.
2. Check the speaker cable for shorts.
3. Check the impedance setting.
4. Bypass effects connected to the loop.
5. Power tubes may be over-biased (refer to qualified service personnel).

### **NO HEADROOM IN CLEAN CHANNEL**

1. Global Master Volume set too low.
2. Check power tubes (SEE ABOVE).

### **BLOWING MAINS FUSE**

1. Bad power tube or other internal power supply component (refer to qualified service personnel).

### **BLOWING DC FUSE**

1. Check speakers and speaker cable.
2. Bad power tube or other internal component (refer to qualified service personnel).

## SPECIFICATIONS

MODEL: PITTBULL HUNDRED/CLX

MODEL NUMBER: G100CLX

POWER REQUIREMENT: 350W

POWER AMP OUTPUT:

High Power: 100W RMS @ 5% THD, 1kHz sine into 8Ω

Low Power 50W RMS @ 5% THD, 1kHz sine into 8Ω

INPUT IMPEDANCE: 1MΩ

OUTPUT IMPEDANCE: 4Ω / 8Ω / 16

FUSES:

**100V UNITS: MAINS** T5A, 250V **DC** F1A, 250V

**120V UNITS:** T4A, 250V, **DC** F1A, 250V

**220V-240V UNITS:** T2A, 250V, **DC** F1A, 250V

FOOTSWITCH (Included): 5-button, (FC-2)

CHANNEL / BOOST/ EFFECTS/EQ

DIMENSIONS:

**HEIGHT:** 10.500 in (26.7 cm)

**WIDTH:** 29.250 in (74.3 cm)

**DEPTH:** 9.500 in (24.1 cm)

**WEIGHT:** 53 lb (24 kg)



*Product specifications are subject to change without notice.*





## Certificate of Compliance

### Restriction of the use of Hazardous Substances (RoHS)

We certify that all of our products (exceptions see listed below) are compliant with the European Union Directive 2002/95/EC for the Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).

No Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr+6), PBB or PBDE is intentionally added to these devices. Any trace impurities of these substances contained in the parts are below the RoHS specified threshold levels.

All information provided in this Certificate of Compliance is accurate to the best of our knowledge as of the date this Certification was issued.

## Certificate of Compliance

### Registration, Evaluation, Authorization and Restriction of chemicals (REACH)

We declare that all of our products are compliant with European Union Directive EC1907/206 for the Registration, Evaluation, Authorization and Restriction of chemicals (REACH), and contain none or less than 0.1% of the chemicals listed as hazardous chemicals in the REACH regulation. All information provided in this Certificate of Compliance is accurate to the best of our knowledge as of the date this Certification was issued.

## Declaration of Conformity

### EMC and Low Voltage Directive (CE)

Product Name: Pittbull Hundred/CLX Amplifier  
Model Number: G-100-CLX

This is to certify that the product listed above complies with the following European Union Council Directives and Standards relating to electromagnetic compatibility (EMC Directive 89/336/EEC) and the low voltage Directive (73/23/EEC).

This declaration of conformity of the European Communities is the result of an examination carried out by Electromagnetic Engineering Services, Inc. in accordance with European Standards EN 50081-1, EN 50082-1 and EN 60065 for low voltage, as laid down in Article 10 of the EMC Directive.

Steven Fryette Design, Inc  
1201 South Flower Street  
Burbank, CA 91502 USA



## LIMITED WARRANTY

Subject to the obligations and exclusions found below, this product is warranted by Steven Fryette Design, Inc., (herein SFD) against manufacturing defects in materials and workmanship for the period of Five (5) Years from the date of purchase, with the exception of the tubes, fuses and speakers where applicable, which carry a 90 day warranty.

The warranty period commences on the date of purchase by the original user. Performance under this warranty must be obtained at one of the following: an SFD Authorized Service Station, by returning the unit to the SFD factory with prior written authorization, or (in countries outside of the United States) by a representative SFD distributor.

### **Obligations**

1. This warranty will be honored only on the presentation of the original proof of purchase.
2. Transportation of the product to and from an authorized SFD service outlet is the responsibility of the user. Units sent directly to the SFD factory for warranty repairs must be authorized by SFD and shipped prepaid.

### **Exclusions**

1. This warranty shall not cover adjustment of consumer-operated controls as explained in the appropriate instruction manual, or products that have been altered or have missing, or defaced serial numbers.
2. This warranty shall not apply to the appearance of accessory items including but not limited to, cabinets, cabinet parts, or knobs.
3. This warranty does not apply to uncrating, setup, installation, or the removal and reinstallation of products for repair.
4. This warranty shall not apply to repair or replacements necessitated by any cause beyond the control of SFD including, but not limited to, any malfunction, defects, or failure caused by or resulting from unauthorized service or parts, damaged or broken tubes, incorrect line voltage, improper maintenance, modification or repair by the user, abuse misuse, neglect, accident, fire, flood, or other Acts of God.
5. Responsibility for the repair of any SFD product sold outside of U.S. boundaries is borne by the SFD representative in that particular country or territory. Also, the warranty term and conditions may be different from those stated above. Please contact the SFD distributor or dealer in your country for more information.

The foregoing is in lieu of all other expressed warranties, and SFD does not authorize any party to assume for it any other obligation or liability. In no event shall SFD be liable for special or consequential damages arising from the use of this product, or for any delay in the performance of this warranty due to causes beyond our control. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of consequential damages, so the above limitations on implied warranty and consequential damages may not apply to you. This warranty gives you specific legal rights. You may have other rights that vary from state to state.

STEVEN FRYETTE DESIGN, INC.  
1201 S. FLOWER STREET  
BURBANK, CA 91502  
TEL (818) 846-4000 FAX (818) 846-4040  
[www.sfdamp.com](http://www.sfdamp.com)