# Amplified Nation

## **Ampliphonix and Gain**

**OWNER'S MANUAL** 



Congratulations on purchasing an amplifier from Amplified Nation. Whether you acquired the amp new or used, we hope that you will enjoy your experience as an Amplified Nation customer. Our products are designed to deliver great tone and be an inspiring extension of your instrument.

The Ampliphonix and Gain is a remarkable amp, equipped with two channels and built-in tube reverb. You will immediately feel how flexible the amp can be, and so many of the iconic tones are very easy to dial in.

The Ampliphonix and Gain comes in different power levels, from 22w to 100w and can be found in head or combo form factor. The higher wattage amps have increased headroom as you go up in power, and increased sonic presence. The head and combo amps are identical in function, so this manual will serve them both equally. All power levels also function the same with the exception of bias settings.

Please read through the control layout functions and make note of the instructions on general operation before attempting to operate your new amp. This instruction manual includes essential safety information regarding the use and maintenance of the amplifier.

If you have any questions about the amp that are not answered in this guide, please reach out to us at **sales@amplifiednation.com** and we will be glad to assist you.

Thank you, Taylor Cox CEO, Amplified Nation

### **About Amplified Nation**

Located in Hudson, MA, Amplified Nation is a boutique brand of guitar amplifiers and speaker cabinets. We have built our business on four core values: Integrity, knowledge, attention to detail and quality. We provide an excellent experience for our customers and are committed to constant communication and adherence to time lines.

Our passion for the craft of hand-building amplifiers can be seen in every piece of gear that leaves our shop. Thank you for choosing to work with us.

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#### **Important Safety Instructions**



- 1. Follow all instructions
- 2. Do not use this amplifier near water
- 3. Clean only with dry cloth
- 4. Do not block any ventilation openings
- 5. Do not install near any heat sources such as radiators, heat registers or vents.
- 6. Protect the power cord from being walked on or pinched particularly at plugs and the point where they exit from the amplifier
- 7. Only use attachments/accessories specified by the manufacturer
- 8. Unplug this amplifier during lightning storms or when unused for long periods of time
- 9. Refer all servicing to qualified service personnel. Servicing is required when the amplifier has been damaged in any way, such as blown tubes, blown fuse, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped
- 10. To disconnect the unit completely from the MAINS, unplug

#### 11. DANGEROUS VOLTAGE WARNING:

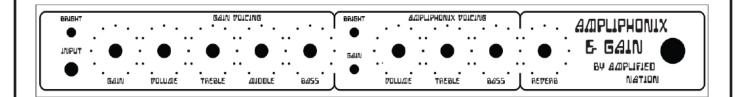
A tube amplifier chassis contains lethal high voltage even when unplugged--sometimes over 700 volts AC and 500 volts DC. Do not attempt to service, repair or conduct tube biasing unless you are qualified to do so. Please contact Amplified Nation beforehand with questions in this regard. Amplified Nation takes no responsibility or shall be held liable for any personal harm caused or damage to this amplifier as a result of unauthorized service, repair or internal adjustments made to this amplifier.

#### Please Read Before Powering Up Your Ampliphonix and Gain

- 1. Inspect to make sure power and pre-amp tubes are intact and snuggly seated in their sockets
- 2. Make certain a speaker (load) is plugged into the correct speaker input jack on the back of the amplifier. Failure to have a speaker connected to the amp will result in damage to the output tubes. Your amplifier is supplied with multiple speaker inputs for various impedances; select the one closest to or transition your speaker(s) impedance.
- 3. Install cable into footswitch and then connect into rear panel input marked FOOTSWITCH
- 4. Install instrument cable from guitar into front panel INPUT
- 5. Be sure both POWER and STANDBY switches are in DOWN position
- 6. Install power cord to amplifier (AC POWER IN) and to AC power source
- 7. POWER UP amplifier by:
  - 1. flipping POWER switch UP. WAIT at least 1 minute for tubes to heat up
  - 2. Flip STANDBY switch UP, amplifier will now operate
- 8. The amplifier is now fully on and ready to use. Feel free to adjust all controls as you see fit
- TO PUT AMP IN STANDBY MODE Simply flip the STANDBY switch DOWN
- TO PUT AMP IN PLAY MODE Simply flip the STANDBY switch UP
- <u>TO TURN AMP OFF</u> Flip the STANDBY switch DOWN. We then recommend (as a kindness to the output tubes) waiting at least 1 minute before flipping POWER switch DOWN hence fully shutting the amp down.



#### **Front Panel Functions**



**Input Jack:** High impedance input to the amplifier. Plug in your instrument here.

**Bright Switch:** Boosts the upper mid frequencies and treble response of the Gain channel.

**Gain:** Adjusts the gain of the amplifiers Gain channel. The higher levels of gain will result in thicker saturation and more aggressive amounts of overdrive.

**Volume:** This volume control is the master volume for the Gain Channel.

Treble: High end frequencies of the Gain channel are increased in the clockwise position of this control.

**Middle**: Mid frequencies of the Gain channel are increased in the clockwise position of this control. When the control is turned counterclockwise the amp will feel scooped.

**Bass:** Adjusts the bass response of the Gain channel. In the full counter-clockwise position, low frequencies are cut. In addition, the response of the treble and mid-range controls may feel reduced. In the full clockwise position, low end frequencies are increased.

**Bright Switch:** Boosts the upper frequencies of the Ampliphonix Clean Channel.

**Gain Switch:** Changes the channel of the amplifier. The "up" position is the Gain channel, down is the Ampliphonix channel. This switch must be in the down position to use the footswitch.

**Volume:** Adjusts the volume of the Ampliphonix channel.

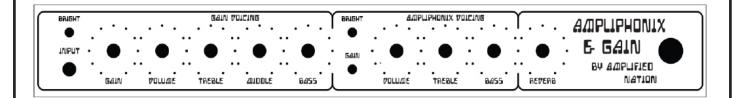
**Treble:** High end frequencies of the Ampliphonix are increased in the clockwise position of this control.

**Bass:** Adjusts the bass response of the Ampliphonix channel.

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## Front Panel Functions (CONTINUED)



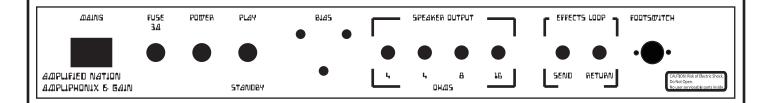
**Reverb:** Adjusts the amount of reverb for the amp. Both channels will be affected by this control. You will hear slightly more gain and sparkle when the reverb is turned clockwise.

**Power Indicator Lamp:** The replacement light bulb is a 6.3v A/C.

**NOTE:** All switches are ON in the "up" position.



#### **Rear Panel Functions**



Mains: Connects the amplifier to A/C power with included IEC power cord.

**Fuse:** See Fuse Chart page 7

**Power Switch:** Turns the A/C mains power on to the amplifier.

**Standby Switch**: In the down position, the standby switch will warm the tubes and get the amplifier ready to play. Flip the switch up to the "Play" position when ready to play the amp.

**Bias Test Points:** See bias adjustment section.

**Speaker Output Jacks:** There are 4 speaker output jacks, two 40hm, one 80hm and one 160hm. You should only use one speaker impedance at a time, or two 40hm outputs are to be used to power two 80hm cabinets.

\*\*Never operate your amplifier without a connected speaker load, and be sure to match the impedance of your cabinet with the corresponding value on the amp.

**Effects Loop:** The effects loop of the Ampliphonix and Gain is a passive signal access point. Any effects plugged into the loop will be run in series with the preamp and power amp.

**Footswitch Jack:** The footswitch connects with the included 7 pin locking cable. The functions of the Ampliphonix and Gain include channel switching and preamp boost on the Ampliphonix channel.



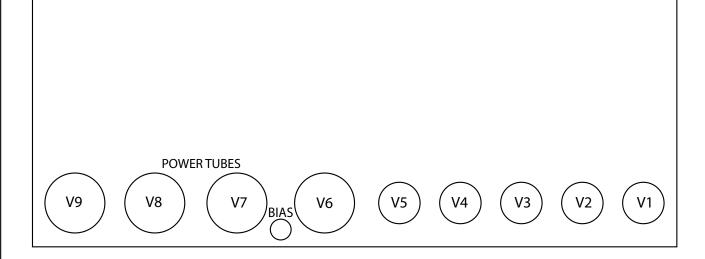
#### **Fuse Chart**

All Fuses are 3AG Type 250 Volt, SLO-BLO

Domestic 120v Fuses: Export 230v, 240v Fuses:

2A – 22 Watt 3A - 50 Watt 3A - 100 Watt 1.5A - 100 Watt

#### **Tube Complement**



V1- 12AX7, Gain Channel Input

V2- 12AX7, Gain Channel Tone stack

V3- 12AX7, Clean Channel Input

V4- 12AT7, Reverb

V5 -12AX7, Phase Inverter

#### **Power Tubes:**

22 Watt- V6 & V7 6V6GT

50 Watt- V6 & V7 6L6GC or EL34

100 Watt- V6, V7, V8, V9, 6L6GC or EL34

Each fine production tube is tested and matched to our exacting specifications. External bias test points are located on the chassis near the output tube sockets. A digital multi-meter and insulated screwdriver are required for the bias adjustment pot in between the power tubes.



## **Bias Adjustment Procedure**

All of our amps are equipped with external bias test points and an external bias adjustment pot. The adjustment pot is located in between the power tube sockets and should be adjusted using an insulated flat tip screwdriver.

- Power up unit connected to proper speaker load
- Do not have an instrument connected to the amp
- Take the amp off of standby and let it stabilize
- Set your multi meter to mV
- Connect the meter to corresponding black and red test points, black is ground
- Using an insulated screwdriver adjust the bias pot to get the proper mV reading

#### Tube types and bias level:

- 22w 6VGGT 19-21mV per tube
- 50w 6L6GC 33-35mmV per tube
- 50w EL34 33-35mV per tube
- 100w 6L6GC 66-70mV per pair
- 100w EL34 66-70mV per pair

**DO NOT** set bias higher than recommended levels as it can lead to tube failure or damage to the amplifier.

WARNING: No user serviceable parts inside. If the amplifier is blowing fuses or not operating properly, please take it to a qualified technician for repair.

Use grounded A/C receptacle only



## **Servicing Warranty**

Amplified Nation offers a 2-year non-transferrable warranty on amplifiers excluding: tubes, speakers, damage from tube failure, and abuse/modification.

It is the customer's responsibility to pay to ship the product to us, and if it is determined the warranty doesn't apply, the customer is responsible for the return shipping.

If the product is a warranty repair, Amplified Nation will cover the return shipping.

## **CONTACT US**

This manual is a resource for some of your questions. Please contact us with any other questions or comments that you may have. We look forward to hearing from you!

Phone: 781-499-2677

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