

*Amplified
Nation*

Six String Sustain

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 Six String Sustain 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 and 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:

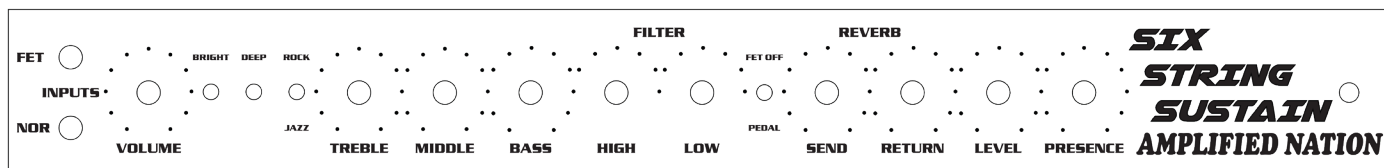
A tube amplifier chassis contains lethal high voltage even when unplugged--sometimes over 700 volts AC and 500 volts DC. Do not attempt to service, repair or conduct tube biasing unless you are qualified to do so. Please contact Amplified Nation beforehand with questions in this regard. Amplified Nation 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 Six String Sustain

1. Inspect to make sure power and pre-amp tubes are intact and snugly 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
- TO TURN AMP OFF - 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



FET Jack: Use the FET Input for access to a transistor based gain stage before the first tube. You will hear slightly higher gain with a glassy, Hi-Fi feel.

NOR Jack: Use the NOR jack for unboosted access to the preamp, this will connect your guitar directly to the first tube (instead of the FET.)

Volume: adjusts the gain of the clean channel.

Bright Switch: Boosts the treble frequency response.

Deep Switch: Boosts the low/mid range frequency response.

Rock/Jazz: Two different EQ settings for the amp. Rock is more aggressive.

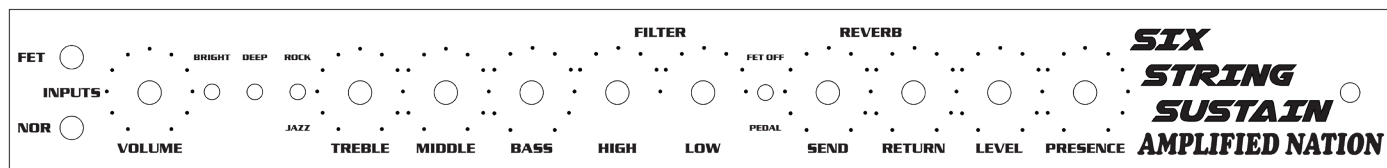
Treble: Adjusts the high frequency response. In the full counter-clockwise position, high frequencies are bypassed to ground. In the full clockwise position, high frequencies are increased.

Middle: Adjusts the mid-range response. In the full counter-clockwise position, the tone will be somewhat "scooped" of mid-range response, emphasizing the highs and lows. In the full clockwise position, mid-range frequencies are increased.

(CONTINUED ON TO NEXT PAGE)



Front Panel Functions (CONTINUED)



Bass: Adjusts the bass response. In the full counter-clockwise position, low frequencies are cut. In addition, the response of the treble and mid-range controls is greatly reduced. In the full clockwise position, low frequencies are increased.

Low Filter: A 6 position rotary switch which removes bass frequencies when counterclockwise, and allows more of them to pass through when clicking clockwise.

High Filter: A 6 position rotary switch which removes treble frequencies when counterclockwise, and allows more of them to pass through when clicking clockwise.

Reverb Send: A dwell control for the reverb. The reverb send determines the amount of decay in your reverb signal.

Reverb Return: The return control sets the level of the reverb in the mix.

FET Off Switch: Turns the FET input off and switches your guitar into the NOR (Normal) channel. When using the footswitch, put the switch to 'pedal'. You must be plugged into the FET channel for this switch to work.

Level: Adjusts the overall output level of the amplifier like a master volume.

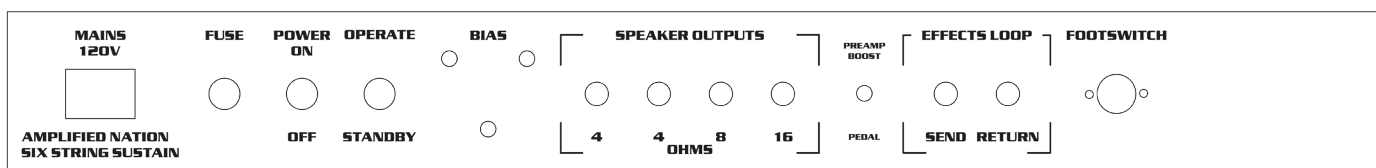
Presence: Turning clockwise will have accentuated mids and highs, seeming brighter and more edgy.

Power Indicator Lamp: The replacement light bulb is a 5mm LED.

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.

Stand-by Switch: Should be in the “down” or “stand-by” position when you apply power to the unit. After turning the A/C mains on, place the switch in the “up” position to use the amplifier. You may leave the unit “powered up” and place this switch in the “stand-by” position to mute the output. Do not leave the amp in standby for more than 30 minutes at a time.

Bias Test Points: See bias adjustment section

Speaker Output Jacks: There are 4 speaker output jacks, two 4ohm, one 8ohm and one 16ohm. You should only use one speaker impedance at a time, but two 4ohm outputs can be used to power two 8ohm 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.**

Preamp Boost Switch: use this switch to select the preamp boost feature. When using the footswitch, set the switch to “pedal”

Effects Loop Send: Use this jack for signal access coming out of the preamp. Connect to the instrument side of your effects chain.

Effects Loop Return: Use this jack for signal access to go back into the power amp. Connect to the amp side of your effects chain.

Footswitch Jack: The footswitch connects with the included 7 pin locking cable. The functions of the Overdrive Reverb include channel switching (left button) and preamp boost (right button).

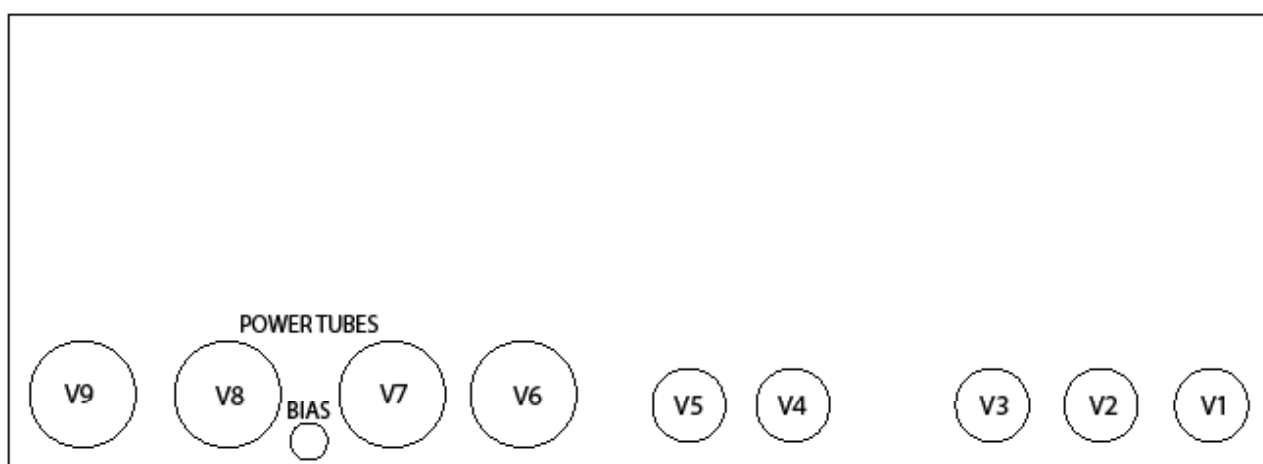


Fuse Chart

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

Domestic 120v Fuses:	Export 230v, 240v Fuses:
2A - 22 Watt	1A - 22 Watt
3A - 50 Watt	1.5A - 50 Watt
3A - 100 Watt	1.5A - 100 Watt

Tube Complement



- V1 - 12AX7 input and tone stack recovery
- V2 - 12AX7 reverb return and filter recovery
- V3 - 12AT7 reverb driver
- V4 - 12AX7 phase inverter
- V5 - 12AT7 cathode follower

Power Tubes:

- 22 Watt - V6 & V7 - 6V6GT
- 50 Watt - V6 & V7 - 6L6GC
- 75 Watt - V6 & V7 - 6550 or KT88
- 100 Watt - V6, V7, V8, V9 - 6L6GC
- 150 Watt - V6, V7, V8, V9 - 6550 or KT88

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 - 33-35mV per tube
- 75w 6550 - 42-45mV per tube
- 100w 6L6GC - 66-70mV per pair
- 50w 6550 - 85-89mV 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!

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