

*Amplified  
Nation*

# **Dirty Wonderland**

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 Dirty Wonderland is a remarkable amp, equipped with a single channel 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 Dirty Wonderland 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. See Page 8*

*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  
Taylor  
CEO, Amplified Nation*

*you,  
Cox*

## **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.

**Amplified Nation**  
120 Central Street, Suite 4  
Hudson, MA 01749  
781-499-2677  
[sales@amplifiednation.com](mailto:sales@amplifiednation.com)  
[www.amplifiednation.com](http://www.amplifiednation.com)



## **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:**

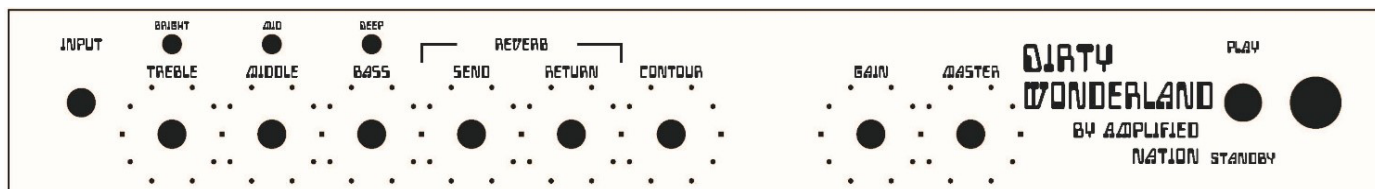
A tube amplifier chassis contains lethal high voltage even when unplugged--sometimes over 700 volts AC and 500 volts DC. Do not attempt to service, repair or conduct tube biasing unless you are qualified to do so. Please contact Amplified Nation beforehand with questions in this regard. Amplified Nation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

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 output 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 outputs for various impedances; select the one closest to your speaker(s) impedance.
  3. Install instrument cable from guitar into front panel INPUT
  4. Be sure both POWER and STANDBY switches are in DOWN position
  5. Install power cord to amplifier (AC POWER IN) and to AC power source
  6. 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
  7. 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



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

**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.

**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.

**Bright Switch:** Boosts the treble frequency response.

**Mid Switch:** Boosts the mid range frequency response.

**Deep Switch:** Cuts high end frequency response as a low frequency contour switch.

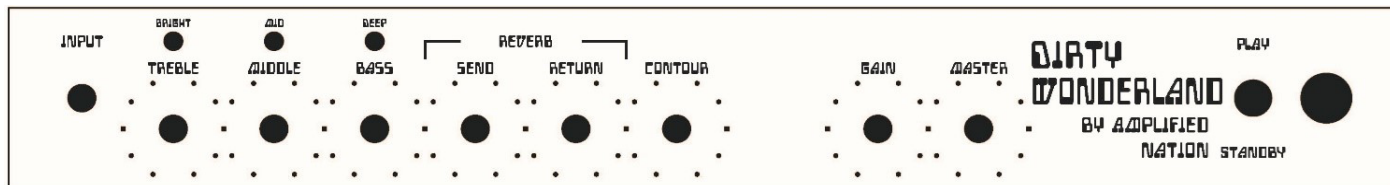
**Reverb Send:** The reverb send control sets the dwell and depth of the reverb effect. The reverb will become deeper when turned clockwise.

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

**(CONTINUED ON TO NEXT PAGE)**



## Front Panel Functions (CONTINUED)



**Contour Control:** In the 12 o'clock position, the frequency response is flat. Counterclockwise rotation reduces high end response and increases low frequencies. Clockwise rotation decreases low end and increases the high frequency response.

**Gain:** Adjusts the gain of the amplifier. More reverb will be introduced when you turn the gain control up.

**Master:** Adjusts the overall output level of the amplifier.

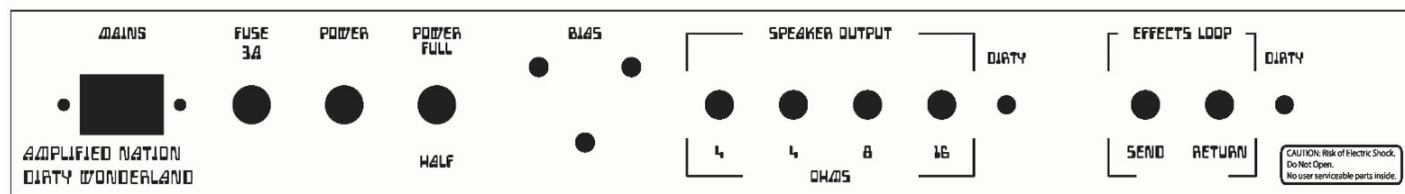
**Stand-by Switch:** Should be in the "down" or "stand-by" position when you apply power to the unit. After turning the A/C mains on, place the switch in the "up" position to use the amplifier. You may leave the unit "powered up" and place this switch in the "stand-by" position to mute the output. Do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

**Power Indicator Lamp:** The replacement light bulb is a 6.3v T3 1/4 bulb

**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.

**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, or two 4ohm outputs are to 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.**

**Dirty Switch (power amp):** The Dirty switch adjacent to the speaker outs dirties up the power amp.

**Effects Loop:** The effects loop of the Dirty Wonderland is a passive signal access point. Any effects plugged into the loop will be run in series with the preamp and power amp. Use send to go to effects, and return when going back to the amp.

**Dirty Switch (preamp)** The Dirty switch adjacent to the effects loop dirties up the preamp.



## Fuse Chart

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

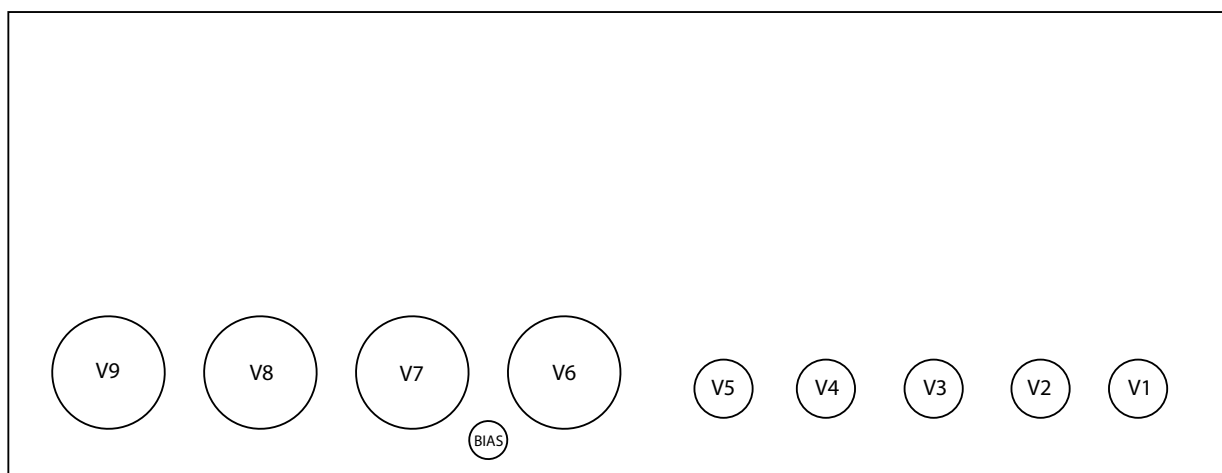
### Domestic Fuses:

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

### Export 220, 230, 240 Fuses:

1A - 22 Watt  
1.5A - 50 Watt  
1.5A - 100 Watt

## Tube Complement



V1- 12AX7, Input and Tone Stack Recovery

V2- 12AX7, Reverb Return

V3- 12AT7, Reverb Driver

V4- 12AX7, Wet/Dry Mixer

V5 - 12AX7, Phase Inverter

### Power Tubes:

22 Watt- V6 & V7 6V6GT

50 Watt- V6 & V7 6L6GC, V8 & V9 optional GZ34 rectifiers tubes

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

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 bias adjustment. The control pot is located in between V6 and V7.



## 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
- 100w 6L6GC – 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

**Email:** Taylor Cox, CEO, Amplified Nation  
Taylor@amplifiednation.com

Alyson Cox, CCO, Amplified Nation

**Website:** [www.amplifiednation.com](http://www.amplifiednation.com)

**Address:** 120 Central Street, Suite 4, Hudson, Massachusetts 01749