



# *Delta Deluxe*

## **Vintage Series**

Fixed-Biased Tube Amplifier

20-Watt or 60-Watt

Head / 1x12 Combo

- or -

60-Watt 2x12 Combo

## Owner's Manual

[www.sonictoneamps.com](http://www.sonictoneamps.com)

Made in the USA

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# Introduction

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I'd like to personally thank you for purchasing the SonicTone Delta Deluxe tube amplifier. I know how important every player's tone is to them and that consideration goes into every amp. The Delta Deluxe takes the Delta Jr. and upgrades it with a host of new features, including two separate EQs and a tube-driven FX loop. Carefully designed and hand-built here in the U.S., the Delta Deluxe retains that amazing vintage tone while giving you a few more options to tailor your sound. From beautiful cleans to bluesy crunches, to a raucous overdrive, this amp will deliver some fantastic tones for you to use when playing live or in the studio. Good luck and enjoy the amp!

Sincerely,



Nick Sagona

# Safety Instructions

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1. Always use the correct types of tubes for this amplifier.
2. Always match the impedance to correct value of the speaker load.
3. Do not attempt to bypass the fuses or use different fuse values.
4. Please only use the provided SonicTone footswitch, which is compatible with this amplifier.
5. Please only use a TRS cable to connect the footswitch to the amplifier.
6. Please operate the amplifier in dry and safe conditions.
7. Please store the amplifier in a reasonable, climate-controlled environment.
8. If you are experiencing issues with the amplifier, please have it worked on by a qualified service technician only. Do not attempt to open the amp and work on it yourself.

**⚡ WARNING! ⚡**

Dangerous and potentially lethal voltages may be present in the amplifier even after it has been turned off and unplugged. Do not open the amp yourself or touch the inside of it. Only have a qualified service technician open up and work on the amplifier.

# Features

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The Delta Deluxe is a fixed-biased tube amplifier that uses three (3) 12AX7 preamp tubes and one (1) GZ34 rectifier tube. The 20-watt model uses two (2) 6V6 power tubes. The 60-watt model uses two (2) 6L6 power tubes. Its features include:

- 2 independent channels with separate EQs
- Bright switch on channel 1
- Hot/cool switch on channel 2
- Master volume
- Tube-driven buffered FX loop
- Tube/solid-state rectifier switch
- Negative feedback selector switch
- Half-power pentode/triode switch
- 3-way output impedance switch (16, 8 or 4 ohm)
- 12" Celestion speaker(s), wired for 16 ohms (stock combo only)
- Birch plywood cabinet with finger-jointed construction
- Footswitch

## **Tube/Solid-State Rectifier Switch:**

The tube/solid-state rectifier switch is another interesting feature that can give you a subtle tonal option. When set to the tube rectifier, the amp will produce a slightly more vintage sound, where there is a little more compression and sag with the sound. Some players prefer this, saying that it gives the amp a more vocal and spongy sound and that the notes have a nice “touch” or “bloom” to them. However, if that’s not your preference, switching to the solid-state rectifier will give the amp a slightly more aggressive sound with a more firm and immediate response.

## **Footswitch Operation:**

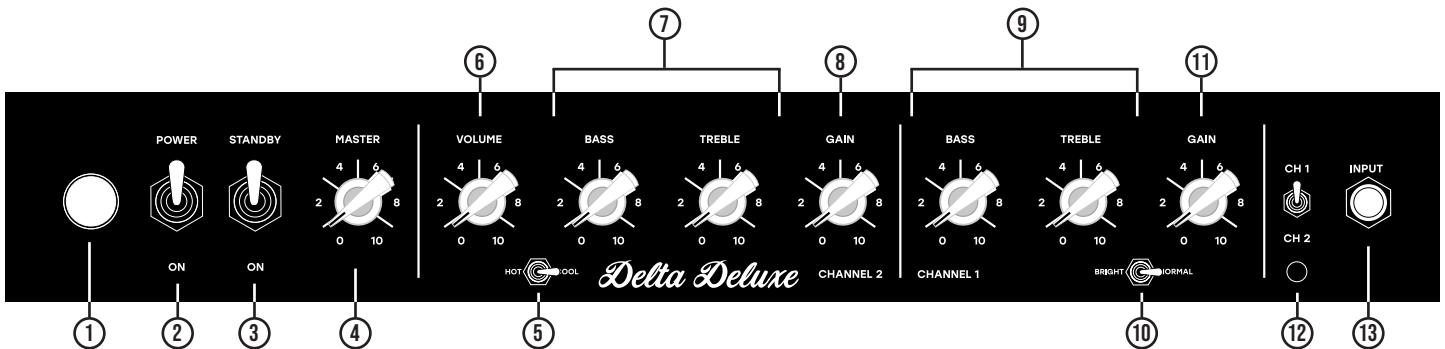
The footswitch requires the 1/4" TRS cable to be inserted into the footswitch jack on the rear panel as well as the jack on the footswitch. The “CH 1 / CH 2” switch on the front panel is automatically defeated if the footswitch cable is plugged into the footswitch jack on the rear panel.

### **! NOTICE !**

Tube amplifiers are voltage-sensitive devices that require a certain amount of AC input voltage (VAC.) If the provided input voltage is too low, the amplifier may not function properly. If the provided input voltage too high, it may damage the amplifier. Please take care to ensure that the correct AC input voltage is provided to the amplifier. See the **specifications** section of this manual for more info.

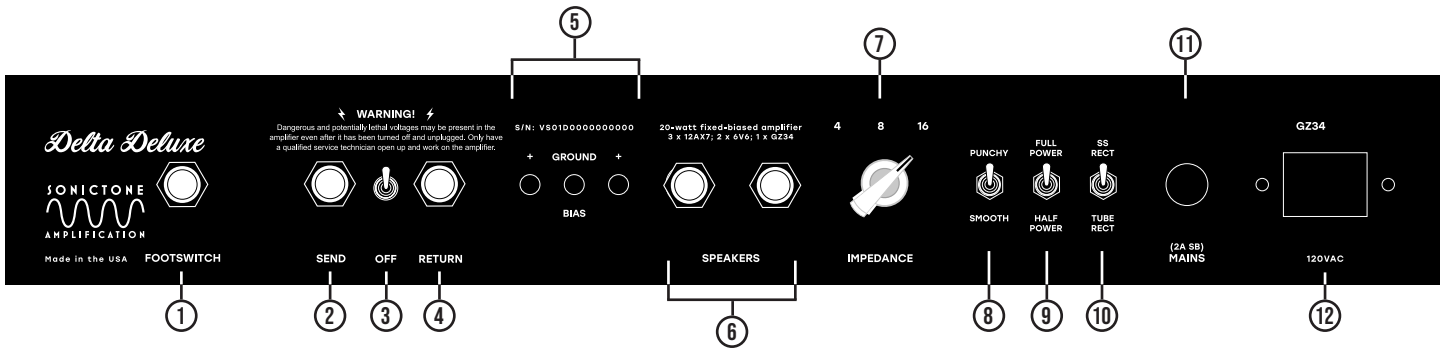
# Front Panel

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1. **Pilot Light** - illuminates when the amp is turned on.
2. **Power Switch** - turns the amp on.
3. **Standby Switch** - allows the amp to be played. When the standby is off, the tubes are kept warm, but the amp will not make any sound.
4. **Master** - the overall master volume of the amp.
5. **Hot/Cool Switch** - switch to engage more gain and a more aggressive tone for channel 2. When the feature is active, the EQ has a reduced effect on the tone.
6. **Volume** - control to adjust the overall volume on channel 2.
7. **Bass and Treble** - passive equalization controls to adjust the tone of the channel 2.
8. **Gain** - control to adjust the amount of gain on channel 2.
9. **Bass and Treble** - passive equalization controls to adjust the tone of the channel 1.
10. **Bright Switch** - switch to engage a slightly brighter tone for channel 1.
11. **Gain** - control to adjust the amount of gain on channel 1.
12. **CH 1 / CH 2 Switch & LED** - switch to change between channels 1 and 2 when not using the footswitch. The LED illuminates when channel 2 is engaged.
13. **Input Jack** - mono input jack to plug your guitar into.

# Rear Panel



1. **Footswitch Jack** - stereo input jack to plug the provided 1/4" TRS footswitch cable into.
2. **FX Loop Send Jack** - mono input jack for the send FX loop signal.
3. **FX Loop Bypass Switch** - switch to fully bypass the FX loop circuit.
4. **FX Loop Return Jack** - mono input jack for the return FX loop signal.
5. **Bias Probes** - test jacks to check the approximate bias point of each power tube in millivolts (mV).\*
6. **Parallel Speaker Jacks** - mono input jacks to plug the speaker(s) into. PLEASE NOTE: The jacks are in parallel, so if you plug two equal impedance speaker loads into them, you must set the impedance switch to half their impedance. For example, with two 16 ohm speaker loads plugged in, the impedance switch should be set to 8 ohms.
7. **Impedance Selector Switch** - switch to select the correct impedance of the speaker load hooked up to the amp.
8. **Punchy/Smooth Switch** - switch to change the amount of negative feedback injected into the amp.
9. **Full/Half Power Switch** - switch to change the power setting between half and full power. This feature changes the operation of the power tubes between pentode (full) and triode (half.) The amount of power reduction in wattage is approximate.\*\*
10. **Solid State/Tube Rectifier Switch** - switch to change between using the tube rectifier or the solid state rectifier.
11. **Fuse Holder** - receptacle for the amp's main fuse. (There is an additional high voltage fuse inside the amp.)
12. **AC Jack** - jack to plug the provided AC cord into.

## \*Important Note About Biasing:

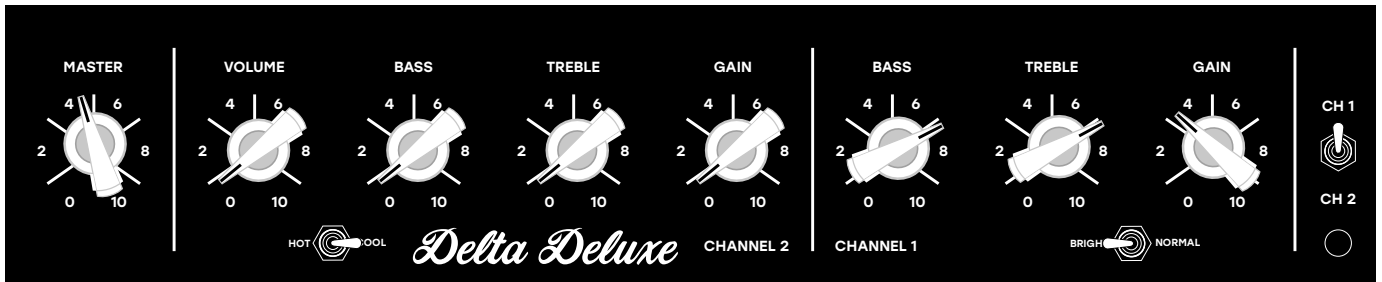
The value given at the bias probes represents the voltage drop across an internal 1 ohm resistor attached to the cathode of each power tube. Using Ohm's law ( $V = IR$ ), the value in millivolts (mV) can easily be converted to milliamps (mA) to get the approximate cathode current. For example, a reading of 40mV would equal 40mA. Power tube cathode current can act as a set point for adjusting the amplifier's bias. This is only an approximation to guide you in checking and setting the bias of the amp, as other factors go into calculating an amp's bias, such as the available plate voltage and max plate dissipation of the power tubes. Before leaving the shop, all SonicTone amplifiers are biased by measuring the plate voltage and plate current, and using those values to properly set the plate dissipation of the power tubes at idle.

The bias pot is located on the top of the amp chassis near the power tubes. As always, please have a qualified technician service the amp and set the bias accordingly. When biasing the amp, all measurements should be performed with the amplifier warmed, set to play mode and with all controls set to zero.

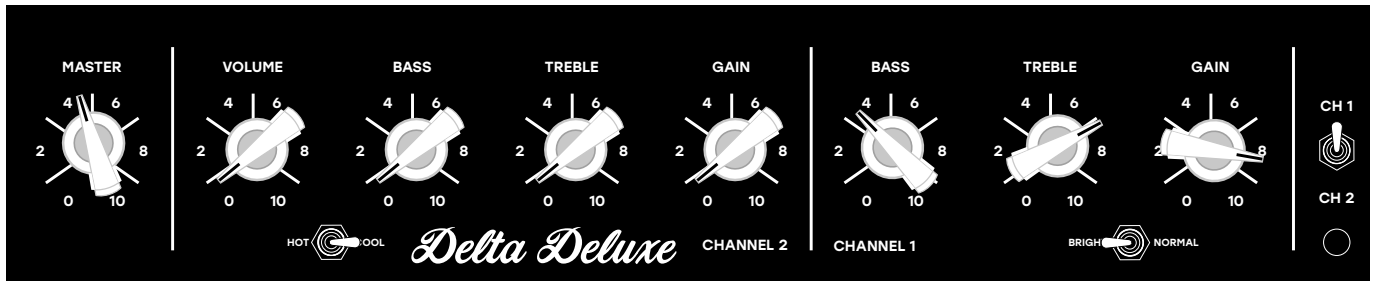
\*\* Please note, the power reduction in wattage **does not** equate to a 50% reduction in overall loudness (dB.)

# Sample Settings

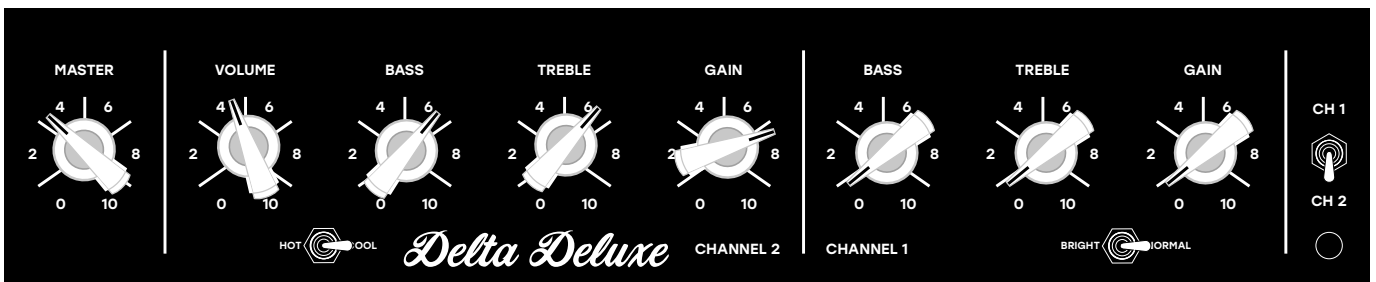
## Channel 1 - Chimey Clean:



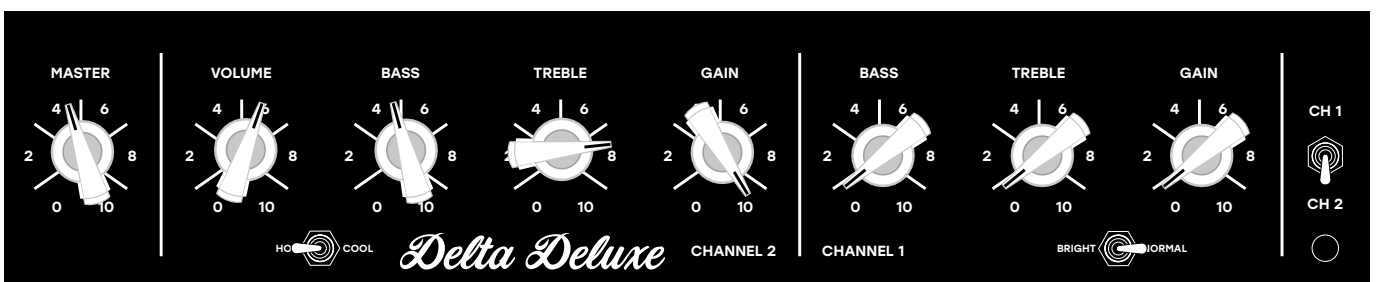
## Channel 1 - Edge of Breakup:



## Channel 2 - Cool Bluesy Crunch:



## Channel 2 - Hot Rock n Roll:



## **2-Year Limited Warranty**

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This amplifier is protected with a limited, 2-year warranty for any and all defective issues with the build workmanship and parts, excluding tubes, transformers and speakers. The warranty does not cover general wear and tear, neglect, misuse or abuse, damage from liquids (water, alcohol, etc.), disasters, acts of God or unauthorized modifications. Any modifications made to the amp by the owner or a technician will void the warranty. The owner is responsible for all warranty shipping costs. Once the warranty work is completed, the customer will be notified and sent a final shipping invoice. The owner then is required to pay the shipping invoice to have the repaired amp shipped back to them. Returned warranty shipping will be insured and will require a signature.



# Specifications

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**Product Series:** Vintage Series

**Product Model:** Delta Deluxe Head, 1x12 Combo or 2x12 Combo

## AC Input & Fuses:

- Standard IEC jack for U.S. 120VAC (International 240VAC)
- 2A slo-blo mains fuse for U.S. 120VAC (1A for International 240VAC)
- 0.5A slo-blo high voltage (B+) fuse (mounted inside the amp)

## Tubes & Power Output:

### 20-watt Model

- Three (3) 12AX7 preamp tubes
- Two (2) 6V6 power tubes
- One (1) GZ34 rectifier tube
- 20W @ 16, 8 or 4 ohms

### 60-watt Model

- Three (3) 12AX7 preamp tubes
- Two (2) 6L6 power tubes
- One (1) GZ34 rectifier tube
- 60W @ 16, 8 or 4 ohms

## Speaker:

- 12-inch Celestion speaker(s), wired for 16 ohm (Stock 1x12 or 2x12 Combo Only)

## Footswitch:

- Single button SonicTone footswitch
- TRS cable required for proper operation

## Dimensions:

### 20W Head

- Width: 24 in
- Height: 10.75 in
- Depth: 9 in
- Weight: 23.5 lbs

### 60W Head

- Width: 24 in
- Height: 10.75 in
- Depth: 9 in
- Weight: 31.0 lbs

### 20W 1x12 Combo

- Width: 24 in
- Height: 20.75 in
- Depth: 10 in
- Weight: 45.0 lbs

### 60W 1x12 Combo

- Width: 24 in
- Height: 20.75 in
- Depth: 10 in
- Weight: 51.0 lbs

### 60W 2x12 Combo

- Width: 30 in
- Height: 20.75 in
- Depth: 10 in
- Weight: 55.0 lbs



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Made in the USA

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