

PATRIOT

Modern Series

60-Watt or 120-Watt

Fixed-Biased

3-Channel High-Gain

Tube Amplifier Head

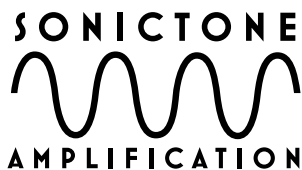
Owner's Manual

www.sonictoneamps.com

Made in the USA

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SonicTone Amplification, LLC
P.O. Box 24456
New Orleans, LA 70184
contact@sonictoneamps.com
www.sonictoneamps.com
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Introduction

I'd like to personally thank you for purchasing the SonicTone Patriot tube amplifier. I know how important every player's tone is to them and that consideration goes into every amp. Part of the flagship Modern Series line up, the Patriot is an American-voiced 3-channel high gain machine. Carefully designed and hand-built here in the U.S., the Patriot is full of features and can produce blistering tones for the most demanding players. Whether playing live or in the studio, this amp will deliver for you. Good luck and enjoy the amp!

Sincerely,



Nick Sagona

Safety Instructions

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 an active 5-pin DIN 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

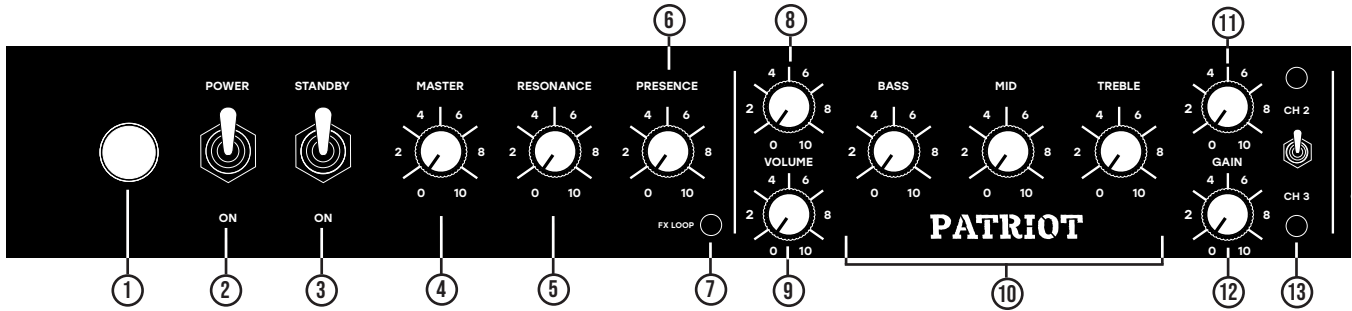
The Patriot is a fixed-biased, high-gain 3-channel tube amplifier that uses five (5) 12AX7 preamp tubes. The 60-watt model uses two (2) 6L6 power tubes and the 120-watt model uses four (4) 6L6 power tubes. The features include:

- 3 channels with independent gain and volume controls
- 2 separate 3-band EQs (Shared EQ between channels 2 and 3)
- Presence and resonance controls
- Master volume
- A bright switch on channel 1
- A clean/crunch switch on channel 1
- Buffered FX loop, bypassable and footswitchable
- FX loop series/parallel switch with send and return controls
- Half-power pentode/triode switch
- 3-way output impedance switch (16, 8 or 4 ohm)
- Birch plywood cabinet with finger-jointed construction

Footswitch Operation:

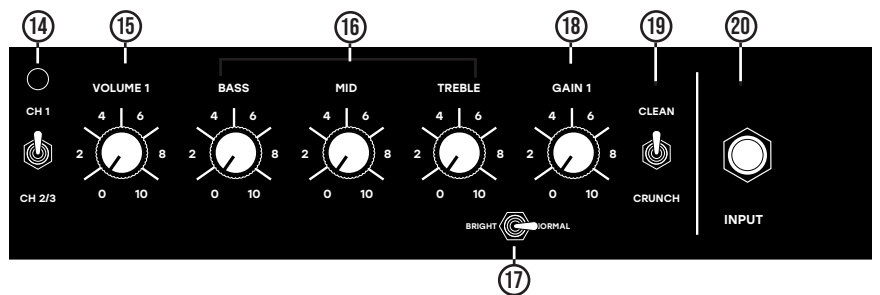
The footswitch requires the active 5-pin DIN cable to be inserted into the footswitch jack on the rear panel as well as the jack on the footswitch. In order for the footswitch to operate correctly, the corresponding amp panel switches must be set to their correct OFF positions. The CH1/CH2 switch must be set to CH2 and the CH2/CH3 three-way switch must be set to the middle OFF position. On the footswitch, the left button (green/red LED) engages channel 1 or 2. When channel 2 is engaged, the second button (red LED) engages channel 3. The third button (blue LED) engages the FX loop.

Front Panel



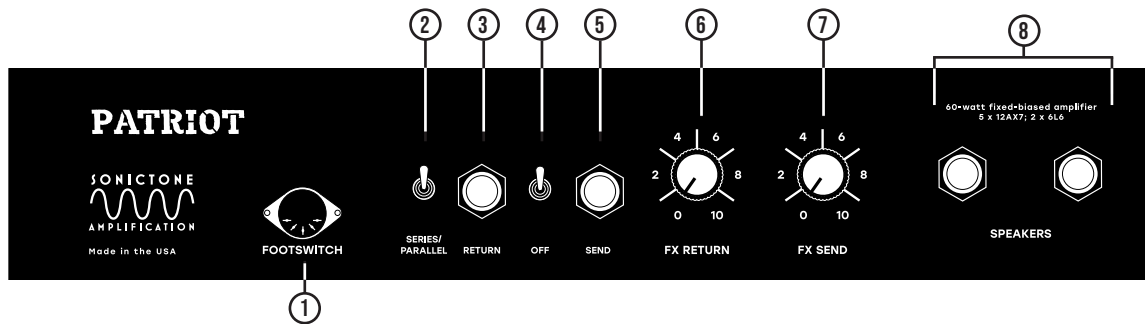
- 1. **Pilot Light** - illuminates when the amp is turned on.
- 2. **Power Switch** - turns the amp on.
- 3. **Standby Switch** - allows the amp to be played. When the standby is off, the tubes are kept warm, but the amp will not make any sound.
- 4. **Master** - the overall master volume of the amp.
- 5. **Resonance** - active tonal control that can be used to thicken up the amp's overall sound.
- 6. **Presence** - active tonal control that can be used to brighten up the amp's overall sound.
- 7. **FX Loop LED** - illuminates when FX loop is engaged.
- 8. **Volume 2** - control to adjust the volume on channel 2.
- 9. **Volume 3** - control to adjust the volume on channel 3.
- 10. **Bass, Middle and Treble** - passive equalization controls to adjust the tone of the channels 2 & 3.
- 11. **Gain 2** - control to adjust the gain on channel 2.
- 12. **Gain 3** - control to adjust the gain on channel 3.
- 13. **CH 2 / CH 3 Switch & LED** - switch to change between channel 2 and channel 3. The appropriate LED illuminates when one of the channels is engaged. (The switch must be set to the middle OFF position for the footswitch to operate.)

- 14. **CH 1 | CH 2/3 Switch & LED** - switch to change between channel 1 and channels 2 and 3. The LED illuminates when channel 1 is engaged. (The switch must be set to the CH 2/3 for the footswitch to operate.)



- 15. **Volume 1** - control to adjust the volume on channel 1.
- 16. **Bass, Middle and Treble** - passive equalization controls to adjust the tone of channel 1.
- 17. **Bright Switch** - switch to engage a slightly brighter tone for channel 1.
- 18. **Gain 1** - control to adjust the gain on channel 1.
- 19. **Clean/Crunch Switch** - switch to engage more crunch on channel 1.
- 20. **Input Jack** - mono input jack to plug your guitar into.

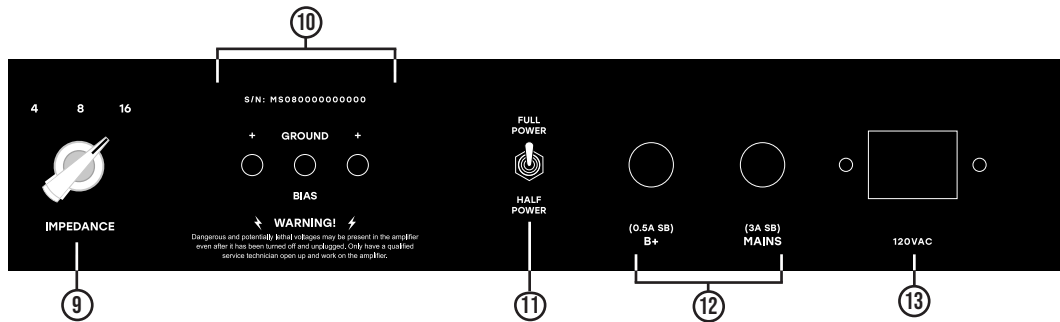
Rear Panel



1. **Footswitch Jack** – 5-pin DIN jack to plug the provided footswitch cable into.
2. **FX Series/Parallel Switch** – switch to operate the FX loop in either series or parallel mode. In parallel mode, the original signal is allowed to pass through unaffected and the send control acts as a “wet/dry blend” to mix the level of affected signal into the mix with the unaffected signal. In parallel, depending on the amount of “wet” signal set by the send control, the overall signal may be louder due to the dry and wet signals being mixed together. In this scenario, it is recommended to use the return control to balance out the overall volume.
3. **FX Loop Return Jack** – mono input jack for the return FX loop signal.
4. **FX Loop Bypass Switch** – switch to fully bypass the FX loop circuit.
5. **FX Loop Send Jack** – mono input jack for the send FX loop signal.
6. **FX Loop Return Level** – control to adjust the level of the return signal to the amp.
7. **FX Loop Send Level** – control to adjust the level of the send signal to the outboard FX chain.
8. **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.

A note about the FX Loop – When the FX loop is off (bypassed), the entire signal will bypass the FX loop circuit altogether. However, the send and return jacks are switched jacks that are connected together when nothing is plugged into them. Therefore, when the circuit is on, signal will be allowed to pass through the FX loop if nothing is plugged into it. Once a cable is inserted into either one of the jacks, that connection is broken and will the signal will go out through the send jack and have to be returned through the return jack. If the FX loop is not being used, the return control can be used as an additional volume control to reduce the volume when the FX loop is on, and then boost the volume when the FX loop is switched off. This will effectively provide a volume “boost” option.

Rear Panel *(continued)*



- 9. **Impedance Selector Switch** – switch to select the correct impedance of the speaker load hooked up to the amp.
- 10. **Bias Probes** – test jacks to check the bias values of the power tubes.*
- 11. **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.**
- 12. **Fuse Holders** – receptacles for the amp’s fuses.
- 13. **AC Jack** – jack to plug the provided AC cord into.

* The bias pot is located on the top of the amp chassis near the power tubes.
Please only have the bias adjusted by a qualified technician.

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

2-Year Limited Warranty

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

Product Series: Modern Series

Product Model: Patriot Head

AC Input & Fuses:

- U.S. Standard IEC jack rated for 120V @ 60Hz
- Slo-blo mains fuse: **60W** - 3A; **120W** - 4A
- Slo-blo high voltage (B+) fuse: **60W** - 0.5A; **120W** - 1A

Tubes & Power Output:

60-watt Model

- Five (5) 12AX7 preamp tubes
- Two (2) 6L6 power tubes
- 60W @ 16, 8 or 4 ohms

120-watt Model

- Five (5) 12AX7 preamp tubes
- Four (4) 6L6 power tubes
- 120W @ 16, 8 or 4 ohms

Footswitch:

- 3-button/4-function SonicTone footswitch
- 5-pin active DIN cable required for proper operation

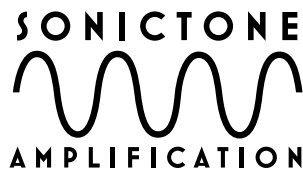
Dimensions:

60W Head

- Width: 30 in
- Height: 10.75 in
- Depth: 9 in
- Weight: 29.5 lbs

120W Head

- Width: 30 in
- Height: 10.75 in
- Depth: 9 in
- Weight: 39.5 lbs



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