



***'67 Special***  
**Super Lead 100**

**Legends Series**

100-Watt Fixed-Biased

Tube Amplifier Head

Owner's Manual

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

Made in the USA

# Table of Contents

---

Introduction.....	3
Safety Instructions .....	4
Features.....	4
Front Panel.....	5
Rear Panel.....	6
Warranty.....	7
Sample Settings .....	8
Specifications.....	9



SonicTone Amplification, LLC  
P.O. Box 24456  
New Orleans, LA 70184  
[contact@sonictoneamps.com](mailto:contact@sonictoneamps.com)  
[www.sonictoneamps.com](http://www.sonictoneamps.com)  
Made in the USA

# Introduction

---

Looking at the legendary guitarist that started it all, we come home to the tone that inspired a countless number of young players to pick up the guitar. Although the guitarist's career was tragically brief, the impact is still felt to this day. This guitarist was the original "mad scientist" - pushing the available gear of the day immediately to the limit. The result was a sonic soundscape unlike anything anyone had ever heard before. There was distortion, sustain, depth - the tone had it all, and everyone wanted to have the tone.

The '67 Special Super Lead 100 takes the standard 50-watt version and upgrades it to new heights. Using custom-wound transformers that match the transformer specs and construction methods of the day, this amp delivers towering tones of psychedelic classic rock that pay homage to his tone. The amp uses a quartet of KT66 power tubes, which were the stock tubes of the time, giving it a smoother mid-range response, while maintaining a tight low-end. However, if the mid-range bite of EL34s is preferred, those can be installed instead.

I'd like to personally thank you for purchasing the SonicTone Legends Series '67 Special Super Lead 100 tube amplifier. I know how important every player's tone is to them and that consideration goes into every amp. Carefully designed and hand-built here in the U.S., the '67 Special Super Lead 100 carries the tone of a true original high and proud. From early break-up crunches to rich 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

**⚡ 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.

# 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.

## Features

---

The '67 Special Super Lead is a 100-watt fixed-biased tube amplifier that uses four (4) 12AX7 preamp tubes and either four (4) octal power tubes (either KT66 or EL34). The features include:

- 2 channels with independent parallel gain control (footswitchable)
- Shared 3-band EQ with presence
- Master volume
- A bright switch on channel 1
- A clean/crunch switch
- Custom value, vintage-spec choke
- Tube-driven, buffered FX loop, bypassable
- Mono preamp out & mono power amp in jacks
- Negative feedback selector switch
- 3-way output impedance switch (16, 8 or 4 ohm)
- 2-button footswitch
- Birch plywood cabinet with finger-jointed construction

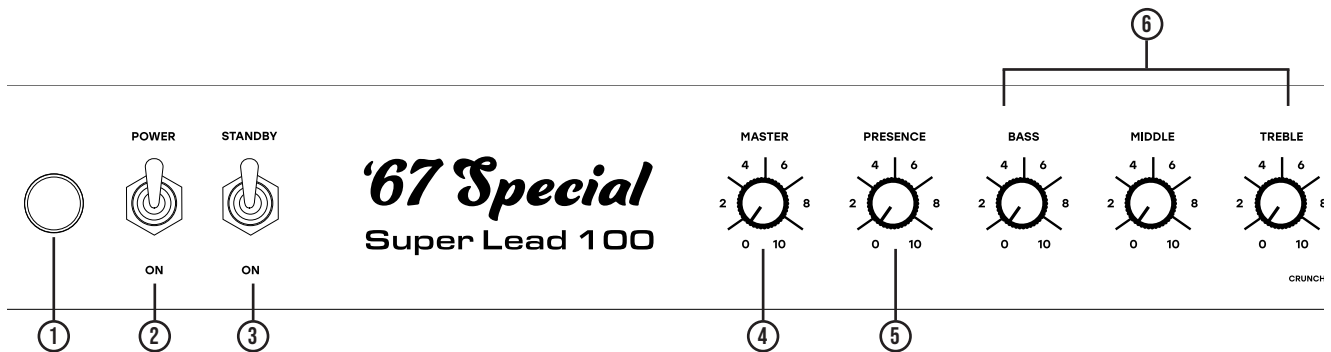
### Independent Parallel Gain Structure:

The independent parallel gain structure between channels 1 and 2 offers a unique voicing between the channels. It is fashioned after the design of vintage multi-channel amplifiers with multiple input jacks. In those designs, the channels could be run separately, or they could be “linked” together with a patch cable which that would produce more gain. The '67 Special's design eliminates the need for multiple input jacks and patch cables and allows you to control the mixing of the 2 channels via the footswitch or front panel switches.

### Footswitch Operation:

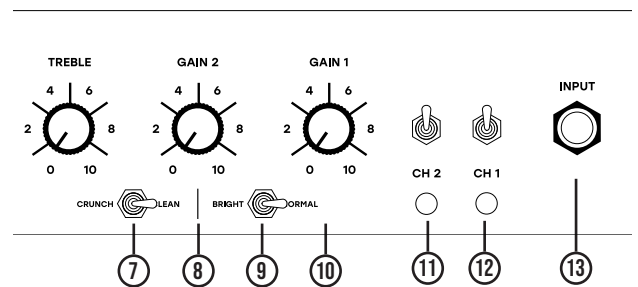
The footswitch requires the active 5-pin DIN cable to be inserted into the footswitch jack on the rear panel as well as the jack on the footswitch. In order for the footswitch to operate correctly, the switches on amp must be set to the OFF position. The orange LED button engages channel 1. The red LED button engages channel 2. Both can be engaged at the same time for a blend of gain from both channels. Both can be turned off at the same time which will mute the amplifier.

# Front Panel



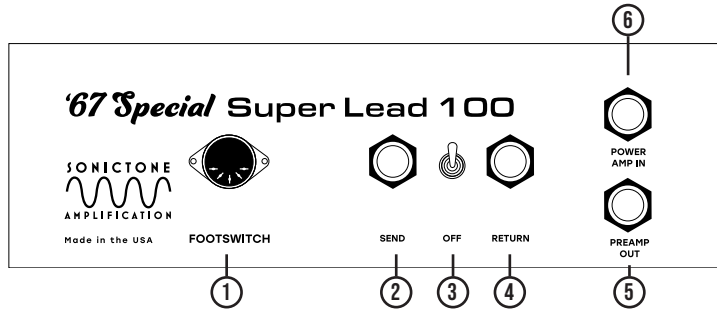
1. **Pilot Light** - illuminates when the amp is turned on.
2. **Power Switch** - turns the amp on.
3. **Standby Switch** - allows the amp to be played. When the standby is off, the tubes are kept warm, but the amp will not make any sound.
4. **Master** - the overall master volume of the amp.
5. **Presence** - active tonal control that can be used to brighten up the amp's overall sound.
6. **Bass, Middle and Treble** - passive equalization controls to adjust the tone of the amp.

7. **Clean/Crunch Switch** - switch to engage more overall gain in the amp.
8. **Gain 2** - control to adjust the amount of gain on channel 2.
9. **Bright Switch** - switch to engage a slightly brighter tone for channel 1.
10. **Gain 1** - control to adjust the amount of gain on channel 1.



11. **CH 2 Switch & LED** - switch to engage channel 2 in the mix. The LED illuminates when channel 2 is engaged. (The switch must be set to OFF for the footswitch to operate.)
12. **CH 1 Switch & LED** - switch to engage channel 1 in the mix. The LED illuminates when channel 1 is engaged. (The switch must be set to OFF for the footswitch to operate.)
13. **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 Loop Send Jack** - mono input jack for the FX loop send signal.
3. **FX Loop Bypass Switch** - switch to fully bypass the FX loop circuit.
4. **FX Loop Return Jack** - mono input jack for the FX loop return signal.
5. **Preamp Out** - mono unbalanced output jack to send the post-FX loop line level signal to another external unit or power amp.
6. **Power Amp In** - mono unbalanced input jack to send a line level preamp signal from another amp into the power amp of this amp. Once a line is plugged into this jack, the internal preamp is disconnected and the power amp will only amplify the incoming external preamp signal.

**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 internally when nothing is plugged into them. Therefore, when the FX loop is on, signal will be allowed to pass through the FX loop even if nothing is plugged into it.

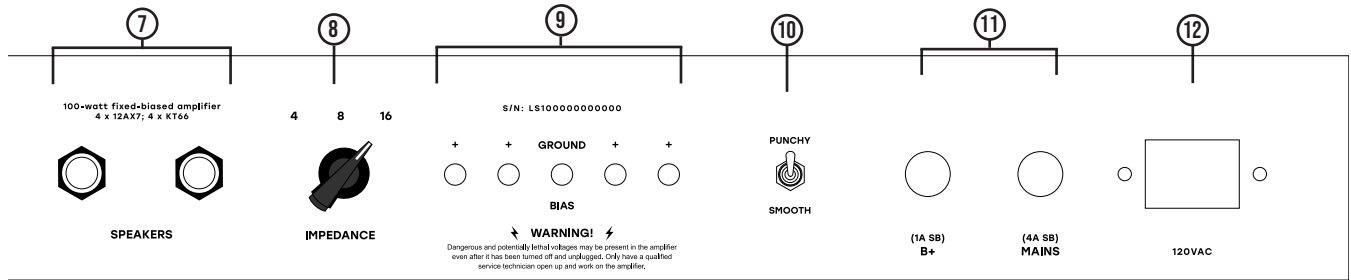
**A note about the insert points** - It is important to make a distinction between the FX loop and the “preamp out/ power amp in” jacks. The FX loop is a lower instrument level signal designed for FX units and requires the “make-up” gain of the return stage. The “preamp out/power amp in” insert point is post-FX loop and is a higher line level signal that needs no recovery stage. The two insert points have different purposes and behave differently because of this.

In summary, the FX loop is designed to feed external FX units via the send jack and receive the processed instrument level signal to the return jack. The “preamp out/power amp in” insert point is designed to feed other power amps, or receive a line level signal from another preamp.

## ! 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.

## Rear Panel *(continued)*



7. **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.
8. **Impedance Selector Switch** – switch to select the correct impedance of the speaker load hooked up to the amp.
9. **Bias Probes** – test jacks to check the approximate bias point of each power tube in millivolts (mV).\*
10. **Punchy/Smooth Switch** – switch to change the amount of negative feedback injected into the amp. The “punchy” setting has less NFB and is more aggressive sounding. The “smooth” setting has more NFB and is less aggressive sounding.
11. **Fuse Holders** – receptacle for the amp’s fuses.
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.

## 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.

# Sample Settings

---

## Channel 1 - Warm Clean:

---

MASTER PRESENCE BASS MIDDLE TREBLE GAIN 2 GAIN 1

0 10 0 10 0 10 0 10 0 10 0 10 0 10

CRUNCH CLEAN | BRIGHT NORMAL

CH 2 CH 1

---

## Channel 1 - Little Joe:

---

MASTER PRESENCE BASS MIDDLE TREBLE GAIN 2 GAIN 1

0 10 0 10 0 10 0 10 0 10 0 10 0 10

CRUNCH CLEAN | BRIGHT NORMAL

CH 2 CH 1

---

## Channel 2 - Purple Lady:

---

MASTER PRESENCE BASS MIDDLE TREBLE GAIN 2 GAIN 1

0 10 0 10 0 10 0 10 0 10 0 10 0 10

CRUNCH CLEAN | BRIGHT NORMAL

CH 2 CH 1

---

## Channel 1 + 2 - Classic Rock:

---

MASTER PRESENCE BASS MIDDLE TREBLE GAIN 2 GAIN 1

0 10 0 10 0 10 0 10 0 10 0 10 0 10

CRUNCH CLEAN | BRIGHT NORMAL

CH 2 CH 1

---



# Specifications

---

**Product Series:** Legends Series

**Product Model:** '67 Special Super Lead Head

## AC Input & Fuses:

- Standard IEC jack for U.S. 120VAC (International 240VAC)
- 4A slo-blo mains fuse for U.S. 120VAC (2A for International 240VAC)
- 1A slo-blo high voltage (B+) fuse

## Tubes:

- Four (4) 12AX7 preamp tubes
- Four (4) octal power tubes (either KT66 or EL34)

## Power Output:

- 100W @ 16, 8 or 4 ohms

## Footswitch:

- 2-button SonicTone footswitch
- 5-pin active DIN cable required for proper operation

## Dimensions:

- Width: 30 in
- Height: 10.75 in
- Depth: 9 in
- Weight: 40 lbs



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

Made in the USA

*The SonicTone logo is a registered trademark of SonicTone Amplification, LLC.*