

Texas Tone® Amp Guardian Owner's Manual

Congratulations!

You are now the proud owner of the Texas Tone® Amp Guardian. This portable device protects your tube amplifier from over-voltage while also allowing boosts of under-voltage. The switching allows for turning the power completely off or bypassing the transformer for straight through line voltage.

Modern tube amps, such as Texas Tone Amps, are designed for 120 Volts, 60 Cycle AC line supply. Vintage tube amps from the 1950s, 60s, and 70s are designed for lower supply voltage, usually from 110 VAC to 117 VAC. Running these amps at 120VAC will result in the tubes running at higher voltages than the design calls for. This can cause inferior performance at best, and damage to the tubes, or amplifier, at worst.

Most household supply that we see varies from 119 to 123 VAC. Remote venues can be all over the voltage map, in some cases as high as 133 VAC, or as low as <110 VAC!

Thank you for choosing Texas Tone®!



READ, FOLLOW, HEED, AND KEEP ALL INSTRUCTIONS AND WARNINGS.

CAUTION: RISK OF ELECTRIC SHOCK, DO NOT OPEN OR REMOVE CHASSIS!

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER-SERVICEABLE PARTS INSIDE.

- **WARNING: Do not attempt to unscrew any of the external screws! The fasten critical internal parts and loosening them presents a serious safety hazard and will void the warranty!**
- **WARNING:** THIS UNIT REQUIRES SAFETY GROUNDED 120VAC 60Hz. ONLY CONNECT POWER CORD TO A POLARIZED, SAFETY GROUNDED OUTLET WIRED TO CURRENT ELECTRICAL CODES AND COMPATIBLE WITH VOLTAGE, POWER, AND FREQUENCY REQUIREMENTS STATED ON THE REAR PANEL OF THE AMPLIFIER.
- **WARNING:** DO NOT EXCEED OUTPUT CURRENT OF 4 AMPS. DOING SO WILL VOID WARRANTY AND DAMAGE THE DEVICE.
- SERVICE TO BE PERFORMED BY QUALIFIED PERSONNEL ONLY.
- **WARNING:** TO REDUCE THE RISK OF ELECTRIC SHOCK OR FIRE, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. DO NOT USE THIS AMPLIFIER NEAR SPLASHING, FALLING, SPRAYING, OR STANDING LIQUIDS.
- CLEAN ONLY WITH LINT-FREE DAMP CLOTH AND DO NOT USE CLEANING AGENTS.
- UNPLUG THE DEVICE DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.

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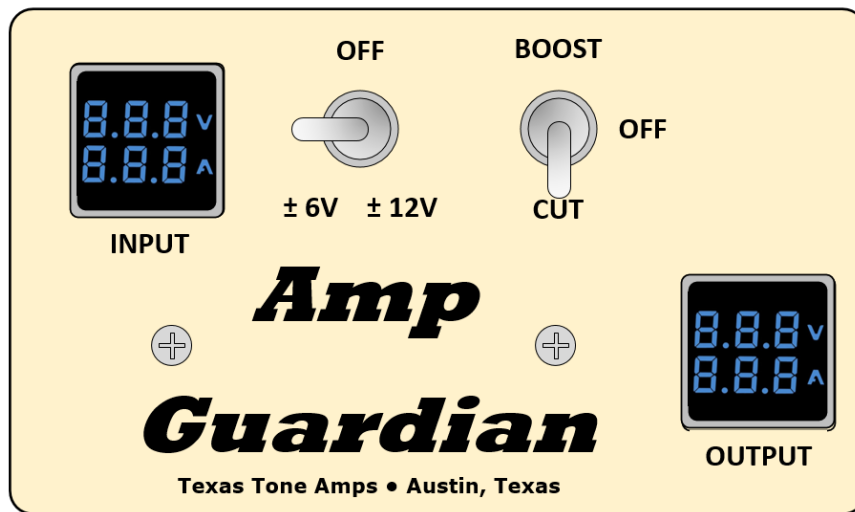
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The Texas Tone® Amp Guardian Features

Top Panel



1. **INPUT LED:** This meter displays the wall voltage, and the current draw of the Amp Guardian. Do not exceed 4 Amps!

NOTE: When the $\pm 6V$ OFF $\pm 12V$ switch is OFF, there is no output!

2. **$\pm 6V$ OFF $\pm 12V$:** This three-function switch is the Master off switch and works in conjunction with the **BOOST-OFF-CUT** switch to provide voltage over/under options.
 - a. The Center Off position turns the output of the Amp Guardian completely off.
 - b. **$\pm 6V$ Position:** Provides a boost or cut of approximately 6.3 Volts AC, depending upon the position of the **BOOST-OFF-CUT** switch position.
 - i. **BOOST** – the Amp Guardian will boost the output voltage approximately 6.3 Volts AC above the input Voltage.
 - ii. **OFF** – This provides straight through Voltage from the Input to the Output with no boost or cut.
 - iii. **CUT** – The Amp Guardian will reduce the output voltage approximately 6.3 VAC below the input Voltage.
 - c. **OFF** - This is the Master OFF position, and no voltage is passed through to the output.
 - d. **$\pm 12V$ Position:**
 - i. **BOOST** – the Amp Guardian will boost the output voltage approximately 12.6 Volts AC above the input Voltage.
 - ii. **OFF** – This provides straight through Voltage from the Input to the Output with no boost or cut.
 - iii. **CUT** – The Amp Guardian will reduce the output voltage approximately 12.6 VAC below the input Voltage.
3. **BOOST-CUT-OFF:** This switch works in conjunction with the **$\pm 6V$ OFF $\pm 12V$** switch to provide voltage over/under options.
 - a. **BOOST** – Provides voltage above the input voltage, dependent upon the setting of the **$\pm 6V$ OFF $\pm 12V$** switch.

- b. **OFF** – Provides straight-through voltage (neither boost nor cut) *when the $\pm 6V$ OFF $\pm 12V$ switch is in either the $\pm 6V$ or $\pm 12V$ position. When the $\pm 6V$ OFF $\pm 12V$ is in the OFF position, no voltage is passed through to the output.*
- c. **CUT** - Provides voltage below the input voltage, dependent upon the setting of the $\pm 6V$ OFF $\pm 12V$ switch.

NOTE: When the $\pm 6V$ OFF $\pm 12V$ switch of OFF, no voltage is passed to the output, regardless of the setting of the **BOOST-OFF-CUT** switch.

- 4. **OUTPUT LED** – Displays the output voltage sent to your amplifier, and the amperage drawn by the amp. **Do not exceed 4 amps!**

Left Panel (Input)

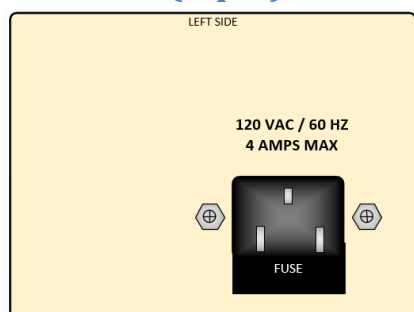


Figure 1 4 Amp version

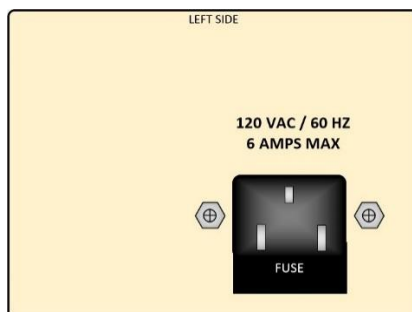


Figure 2 6 Amp version

4 Amp version

- 5. **IEC C14 3-Prong power cord receptable:** Use to connect to 120 VAC / 60 Hz using a standard 3-prong power cord with an IEC female end. A fuse holder is built in (capable of holding a spare fuse). Use only a **GMA type Fast-Blow 4 Amp** rated fuse (6 Amp for the dual-outlet 6 Amp version). **Exceeding the current rating will void the warranty and damage the Amp Guardian.** If the fuse blows, or the device will not power on, consult a qualified electrical technician.

Right Panel (Output)

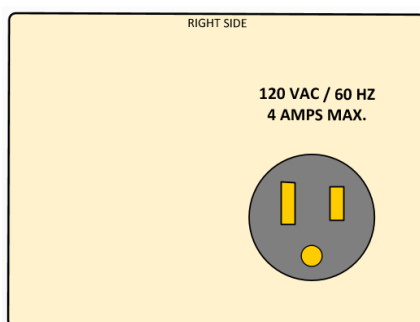


Figure 3 4 Amp version

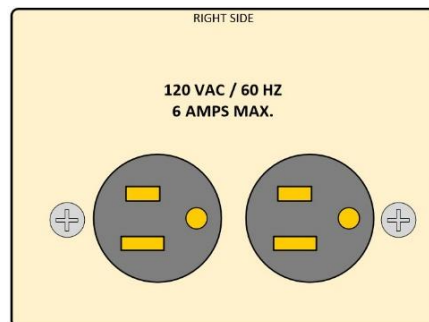


Figure 4 6 Amp version

- 6. **NEMA 5-15R Output Receptacle:** Connect your amplifier to the output receptacle using a 3-prong power cord. **Do not exceed rated current draw!**

Specifications

Texas Tone Amp Guardian TECHNICAL SPECIFICATIONS:

Power Requirements	120 Volts, 60 Hz, 4 o 6 Amps maximum.
Size and Weight	7.40" (L) x 4.72" (W) x 3.07" (H) 7 lbs.

Specifications and information in this manual are subject to change without notice.

Texas Tone® is a registered trademark of Texas Tone Amps for tube guitar amplifiers.