



U S E R ' S M A N U A L



May be covered by one or more of the following: U.S. Patents #4538297, 4647876, 4696044, 4745309, 4881047, 4893099, 5124657, 5263091, 5268527, 5319713, 5333201, 5402498 and 5493617. Other patents pending. Foreign patents pending.



Your Rocktron EGNATER TOL-series amplifier has been tested and complies with the following Standards and Directives as set forth by the European Union:

Council Directive(s): 89/336/EEC, 73/23/EEC

Standard(s): EN55013, EN50082-1, EN60065

This means that this product has been designed to meet stringent guidelines on how much RF energy it can emit, and that it should be immune from other sources of interference when properly used. Improper use of this equipment could result in increased RF emissions, which may or may not interfere with other electronic products.

To insure against this possibility, always use good shielded cables for all audio input connections. This will help insure compliance with the Directive(s).

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Forward

Congratulations on your purchase of the EGNATER TOL50 by Rocktron.

This is a very exciting time for both myself and Rocktron. Rocktron has gained a reputation for more than 15 years for being on the cutting edge of guitar processor technology and producing some of the most innovative products in the industry. I'm flattered to say that Egnater Amplification has been producing what have been reputed to be some of the finest sounding tube guitar amplifiers in the world.

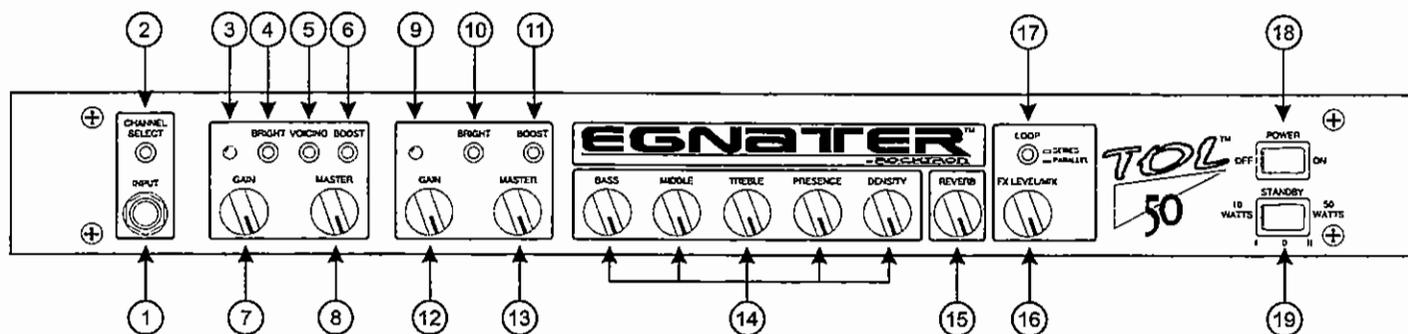
This collaboration between Rocktron and Egnater will open doors for new ideas, new technologies and new products that I hope will earn their place in the "Guitar Amp Hall of Fame" (if it existed). The TOL50 is the first Egnater by Rocktron product to be designed and produced at the Rocktron factory, and I, for one, am very pleased with the results. I trust you are also. Thanks for putting your trust in us—I promise we won't let you down!

Sincerely,

A handwritten signature in black ink, appearing to read 'Bruce Egnater', with a long horizontal flourish extending to the right.

Bruce Egnater

Top Panel



- 1** **INPUT jack**
This 1/4" jack accepts the output from the guitar.
- 2** **CHANNEL SELECT switch**
Selects which channel is active (Clean 1 or High Gain 2).

CLEAN Channel 1

- 3** **Channel On LED**
Indicates Channel 1 is active.
- 4** **BRIGHT switch**
Push in for high-end boost.
- 5** **VOICING switch**
OUT for normal vintage voicing, IN for classic American clean.
- 6** **BOOST switch**
OUT for normal, IN for GAIN boost (Also accessible from the foot pedal.)
- 7** **GAIN control**
Adjusts the amount of drive. Higher settings increase distortion and sustain.
- 8** **MASTER control**
Adjusts the overall volume of the CLEAN channel only.

HIGH GAIN Channel 2

- 9** **Channel On LED**
Indicates Channel 2 is active.

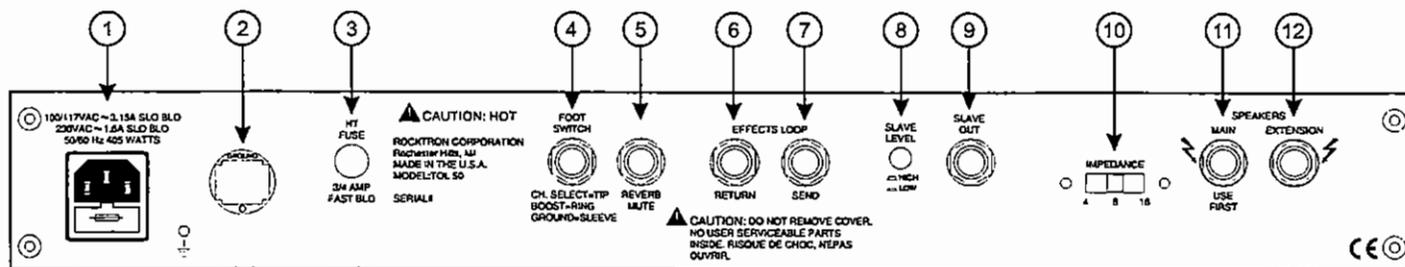
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- ⑩ **BRIGHT switch**
Push in for high-end boost.
 - ⑪ **BOOST switch**
OUT for normal, IN for GAIN boost (Also accessible from the foot pedal.)
 - ⑫ **GAIN control**
Adjusts the amount of drive. Higher settings increase distortion and sustain.
 - ⑬ **MASTER control**
Adjusts the overall volume of the HIGH GAIN channel only.

EQUALIZATION

- ⑭ **BASS, MID, TREBLE, PRESENCE and DENSITY controls**
This is where *you* decide the personality. The BASS, MID and TREBLE controls are your classic bridge-T configuration (found in most of the popular guitar amps throughout history). The PRESENCE control allows you to tailor the high frequency response to suit your taste, while the DENSITY control dials in the *FATNESS* — as much as you want. Experiment...try new things. There are many great tones at your fingertips!

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- ⑮ **REVERB control**
Adjusts the amount of spring reverb.
 - ⑯ **FX LEVEL/MIX control**
This is a dual-purpose control. With the loop in SERIES mode, this control becomes an overall master volume. When the effects loop is in PARALLEL mode, this control becomes an "effects only" return (or mix).
 - ⑰ **SERIES/PARALLEL switch**
This switch selects the MODE of operation for the effects loop. Refer to the special section entitled "*Effects Loop Operation*" for more information.
 - ⑱ **POWER switch**
This is the MAINS AC power switch. When powering up the TOL50, verify that the STANDBY switch (19) is in the OFF (center) position.
 - ⑲ **STANDBY switch**
This multi-purpose switch performs two functions. After powering up the TOL50, allow one minute to allow the tubes to stabilize. Then select the 50 WATT position for full power operation or 10 WATTS for the sweet, singing overdrive that only comes from driving the power tubes into distortion.
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Rear Panel



- 1 POWER INLET module**

The Power Inlet module accepts the detachable power cord included with the unit, and also houses the main power fuse. (Always replace with the Slo-Blo fuse indicated on the rear panel.)
- 2 GROUND POLARITY switch**

This 3-position rocker switch electrically references the chassis to the correct line phase in the instance where the AC wall outlet may not be properly grounded. Set the switch to the position that provides the least amount of hum.
- 3 HT FUSE**

This fuse provides internal protection in the event of a power tube failure. Always replace with the same type and rating.
- 4 FOOTSWITCH jack**

This ¼" stereo jack allows for remote activation of both the channel switching and boost functions. The Tip to the Sleeve connection controls channel selection, while the Ring to Sleeve controls the boost.
- 5 REVERB MUTE jack**

Use this jack for remote on/off control of the internal reverb. Any push on/push off switch with a shielded cable will work.
- 6 EFFECTS RETURN jack**

This ¼" jack connects to the OUTPUT of an effects device.
- 7 EFFECTS SEND jack**

This ¼" jack connects to the INPUT of an effects device. Inserting a plug into this jack automatically activates the effects loop circuit and the front panel effects loop controls.
- 8 SLAVE LEVEL switch**

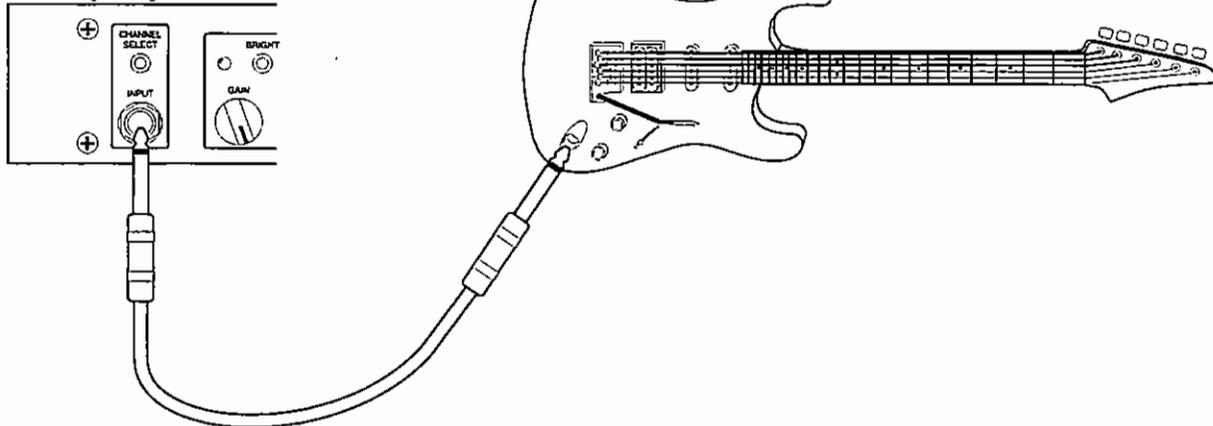
Determines the reference level of the SLAVE OUT jack. Set this switch out for 0dB or in for -15dB operation.

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- 9** **SLAVE OUT jack**
This ¼" mono jack provides a FULL RANGE direct output after the power amplifier stage. It is intended to be used as an output to feed an external effects system or to an additional powered speaker system. It is not a RECORDING output.
 - 10** **IMPEDANCE switch**
This switch selects the proper impedance to match the output of the amplifier to the load. (See the impedance chart on page 9).
 - 11** **MAINSPEAKER output**
This jack connects to the internal speaker on the COMBO versions of the TOL50 or to the primary speaker in a head/cabinet setup. A speaker must always be connected to this jack.
 - 12** **EXTENSION SPEAKER output**
This jack is used to connect additional speakers to the combo or when multiple cabinets are used with the head version of the TOL50.

Connections

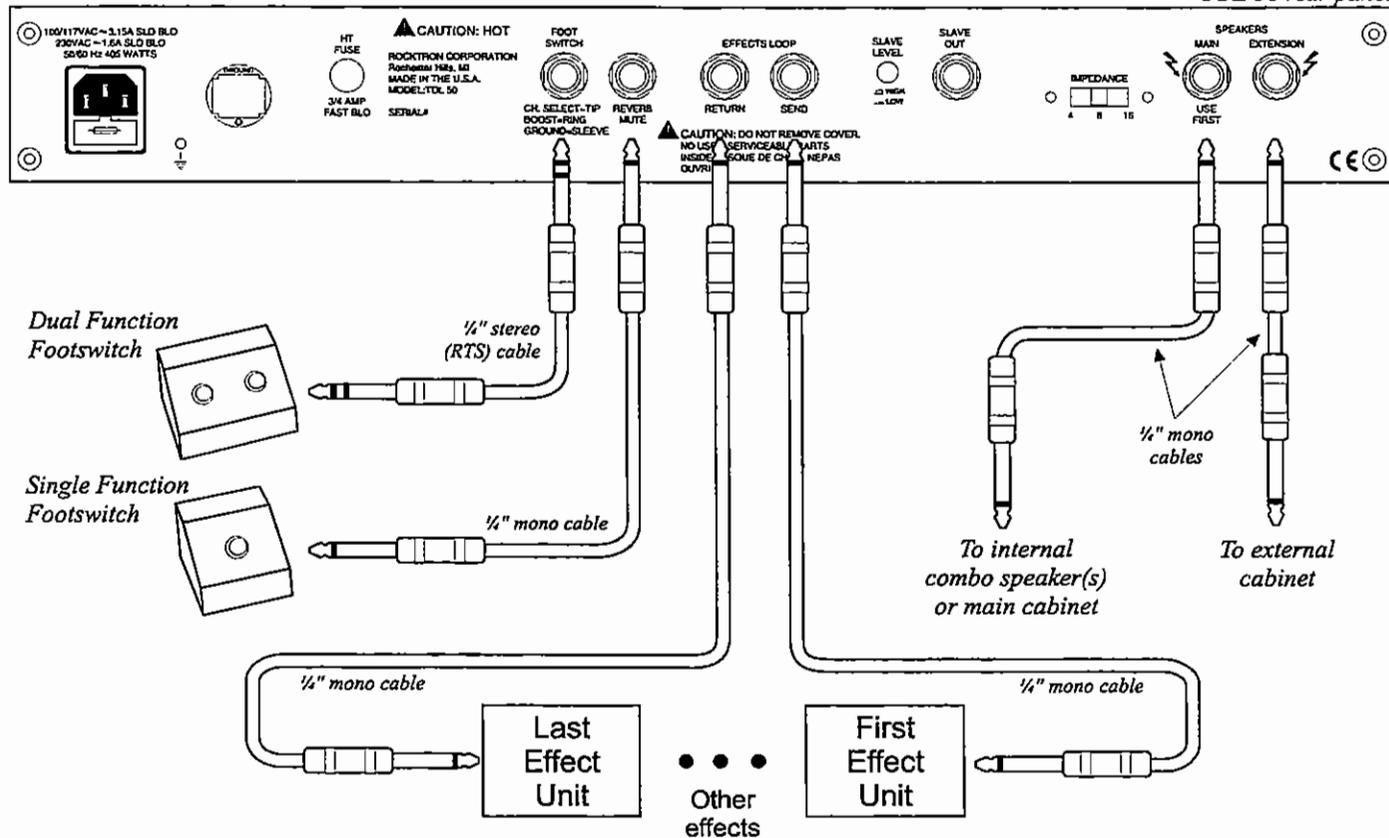
Front Panel Connections...

TOL 50 front panel



Rear Panel Connections...

TOL 50 rear panel



Operating Precautions

Please note the following precautions before operating your TOL50:

-  Always use the MAIN SPKR jack first for the speaker connection.
-  Do not operate below 4 ohms.
-  Never operate the TOL50 without a load on the output.
-  Always be certain to use speakers or speaker cabinets capable of withstanding the power that the TOL50 is capable of providing. Rocktron is not responsible for speaker failure resulting from the use of this equipment.
-  Always plug and unplug speaker outputs with the power amplifier OFF.

Temperature Considerations:

-  Note that the power tubes at the rear of the TOL50 generate considerable heat when operating the amplifier. **DO NOT TOUCH THESE TUBES DURING (OR SOON AFTER) OPERATION! Failure to heed this warning may result in severe burns!**
-  Always keep well ventilated. Do not block the top vent.
-  Do not let cables rest on power tubes.

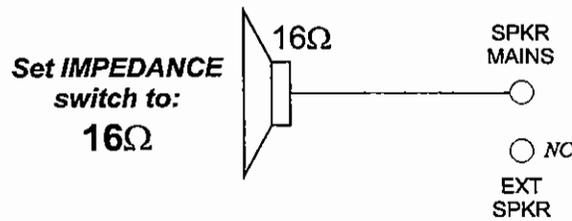
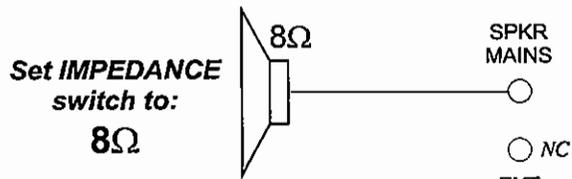
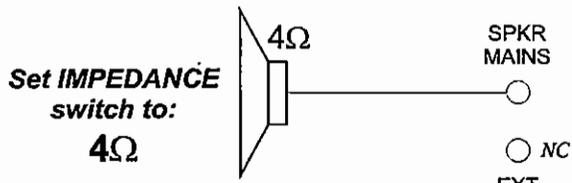
Impedance Settings

The IMPEDANCE switch on the output must be set to match the speaker load that is connected. The speaker jacks are wired internally in parallel. Use the following chart to determine the proper setting of the IMPEDANCE switch for your particular speaker configuration.

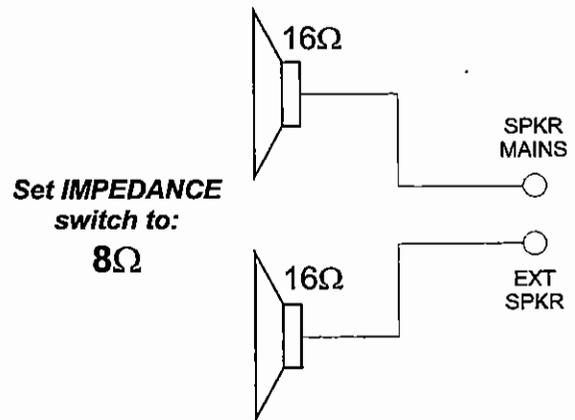
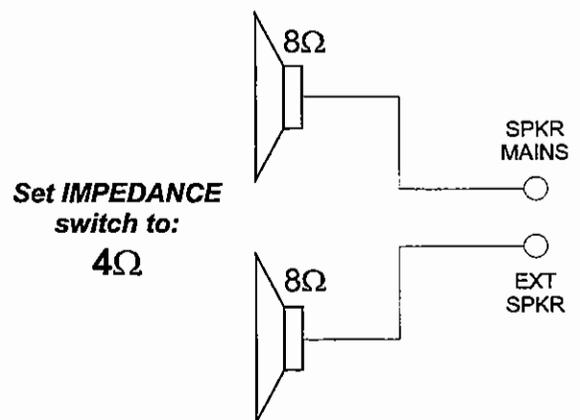
Important Notes:

- | | |
|--------------------|--|
| <i>1x12</i> | <i>The proper setting for the TOL50 1x12 combo is 8 ohms when using only the internal speaker. When connecting an external speaker, use the chart on the following page to determine the proper setting.</i> |
| <i>2x12</i> | <i>The proper setting for the TOL50 2x12 combo is 16 ohms when using only the internal speakers. When connecting an external speaker, use the chart on the following page to determine the proper setting.</i> |
| <i>☞</i> | <i>If only one speaker (internal) or cabinet is used, as with the head model, the MAIN SPEAKER output must be used FIRST. If the MAIN SPEAKER output is not used, no signal will be present and possible damage to the amplifier may result!</i> |

**IMPEDANCE settings
when using 1 cabinet**



**IMPEDANCE settings
when using 2 cabinets**



Proper IMPEDANCE switch settings

Effects Loop Operation

The effects loop on the TOL50 offers two modes of operation, as described below.

Series Mode

When an effect is inserted into the loop send and return jacks, the direct signal path is interrupted and 100% of the signal is routed through the effects unit. The FX LEVEL/MIX control acts as an overall master volume in this configuration. This is the most common style of effects loop in most guitar amplifiers.

This configuration allows the use of most special effects such as reverb, echo, chorus, pitch shift, equalizers, noise reduction, etc. The only disadvantage to this loop is that your TONE may be affected by the effects processor because your signal passes through it at all times.

Parallel Mode

This is the more specialized mode that is limited in its use, but offers the advantage of leaving your direct signal intact even when an effects unit is inserted in the loop. Your TONE is not hindered by the effects processor. Think of this mode as similar to the effects buss on a mixing console. Your DIRECT signal is always present, and the processed signal is MIXED in using the FX LEVEL/MIX control.

"Time-based" effects are ideally suited for this application. Echo, reverb, delay, flanging and phasing are all examples of time-based effects.

Processors that WILL NOT function properly in a PARALLEL loop include noise reduction, equalizers, compressors and limiters. The reason for this is because, for these devices to work, they MUST PROCESS 100% of the signal. For example, you cannot equalize the signal if you have the "unequalized" signal along with it. Makes sense, doesn't it?

Tube/Fuse Replacement

Tube Replacement

The TOL50 is shipped with two EL34 power tubes and four 12AX7 preamp tubes. **Replacing any of these with alternative tube types will void the warranty.** If you suspect a problem with the tubes, please contact our Customer Service department.

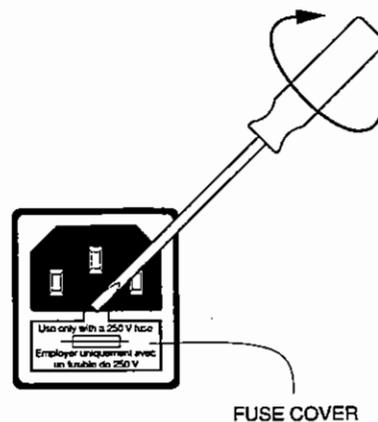
Fuse Replacement

Always replace the main fuse with an identically rated replacement. Your TOL50 amplifier uses a 5x20mm, 3.15A amp, 250V slow-blow fuse (1.6A, 250V slow-blow for 230VAC). The fuse is located immediately below the line cord inlet on the rear panel and can be accessed by removing the fuse cover module as shown below.

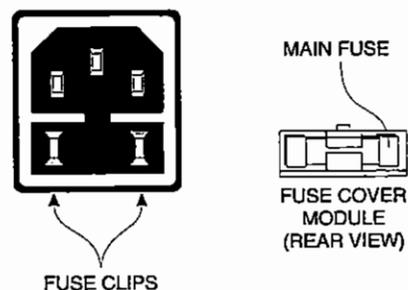
REPLACING THE FUSE

- ① Use a small flat screwdriver as shown to slide the fuse cover out from the power inlet module. The fuse can be found inside the fuse cover module after it is pulled out.

 *Note: A small compartment is also provided within the fuse cover module for storing a spare fuse.*



- ② After replacing the fuse with another of identical specifications, push the fuse cover module fully back into place, ensuring that the fuse has snapped onto the fuse holder inside the power inlet module.



Specifications

| | |
|---------------------------|--|
| Input Impedance | 1M |
| Output Power | 50 watts RMS |
| Load Impedance | 4 Ω , 8 Ω or 16 Ω (switch selectable) |
| Maximum Gain | over 80dB |
| Operating Voltages | 100 VAC, 117 VAC, 230 VAC |
| Spring Reverb | Accutronics 3-spring |
| Dimensions | TOL50 (1x12) 23½ x 20½ x 10½ TOL50 (2x12) 27 x 20½ x 10½ TOL50 (Head) 23½ x 9½ |
| Speaker | 12" (custom designed) |
| Equalization | 3-band bridged-T — treble, middle, bass * plus presence and density |



CE Approved



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