

How to install

1. Switch of amplifier, disconnect from AC and let cool down
2. Remove output tubes (6L6GC, 5881, EL34, 6V6GT etc.)
3. Plug the EL84 tubes in the **ToneBone™** converters and plug the **ToneBone™** in place of the original output tubes. If you install 2 **ToneBones™** in 4-tube output stage of a 80–135 Watt amp, then do not install them directly side-by-side. To keep the output stage in balance each side needs one **ToneBone™** (or tube).
4. Connect amp to AC and switch on.
5. Have fun!

Limitations

The use of **ToneBone™** converters is not recommended for amps, which already do provide Cathode-Bias/Class A operation (e. g. Fender® "tweed" Deluxe, Fender® "wide panel tweed" amps, Leslie® 122/147 etc.). Amps with Class A / Class AB switching facility (e.g. Fender® Pro-sonic) must be used in Class AB position when using **ToneBones™**.

DO NOT USE the **ToneBone™** for amps with cathode control (e. g. Musicman® RD series, Peavey® Classic 75/100 etc.).

Maximum supply voltage: 530V

In case of any doubts or questions please send e-mail to: info@tubeampdoctor.com, subject: **ToneBone**

Warning !!!

For all works, your amp must be switched off and disconnected from mains AC supply. Tube and **ToneBone™** converters get HOT during operation. Do not touch during operation and let cool down before exchanging them.

ToneBone™

part no.	Description
TB-PH/2	ToneBone PENTODE incl. EL84
TB-TH/2	ToneBone TRIODE incl. EL84

including selected TAD EL84 tubes + english manual

ToneBone™ converters are supplied in packages of 2 pieces including a matched pair of EL84 tubes and an English and German manual.

www.tubeampdoctor.com



Tube Amp
Doctor™

TONE
BONE

plug & play

Class A

- **Class A + Cathode Bias with EL84**
- **Replaces 6L6GC, EL34, 5881, 6V6GT with EL84**
- **Improves sustain and thickens your tone**
- **Available as Triode or Pentode Version**
- **Extra smooth tone with Triode Version**
- **Pure harmonic sweet distortion for every amp**
- **Decent compression when played clean**
- **Plug & Play! No adjustments, no modification**

OWNERS MANUAL



ToneBone



plug & play

Class A

TONE BONE™, EL84 and Class A

The **Tone Bone™** converters do permit to replace 6L6GC, 5881, EL34 and 6V6GT for EL84/6BQ5 tubes and operates them in pure CLASS A. It is ready to plug in your amp and play. The TONE BONE™ improves the amp sonically, its sensitivity and reduces the overall loudness so you can crank it up at reasonable volume.

Tone, Tone, Tone...

How the TONE BONE™ benefits your amps voice:

1. The tone of a Class A operated guitar amp is well known from the legendary VOX AC30. Tone gets more alive, the amp responds more directly and musically. It instantly improves sustain, thickens tone and is adding a "three-dimensional" character with decent compression and smooth harmonic distortion when driven to the limit.
2. The overall loudness will be reduced as the Class A as the EL84 tubes provides less output volume. So you can crank up your amp all the way and achieve best sonically performance at reasonable volume (8–30 Watt, depending on your amp and the **Tone Bone™** version you use).

PENTODE or TRIODE version?

The **Tone Bone™** is available as PENTODE and TRIODE version. Both versions basically provide the same benefits. The PENTODE supports the main tonal character of your amp while the TRIODE will clearly make it more linear but will compress and saturate much earlier. The TRIODE makes it sound much smoother and will drop down power output to about 8 watts when using 2 **Tone Bone™** converters. Both versions will provide you outrageous sustain and let you achieve more even distortion sound when cranked up and still give you perfect control with playing dynamics.

ToneBone



Plug & Play

...or How to install:

Switch off your amp, pull out the power tubes (6L6GC, 5881, EL34 or 6V6GT) and plug in **Tone Bone™** converters including their EL84 tubes, switch amp on. Done! The **Tone Bone™** is total self-adjusting. No adjustments, no modifications! As you do not adjust the bias you might switch back to the original power tubes at any time you want.

Real PLUG & PLAY!

Power Output

The overall power output depends on your amp and the version of **Tone Bone™** converters you use:

- Pentode: 7–9 Watt per converter, 14 – 18 Watt per pair
- Triode: 4–5 Watt per converter, 8–10 Watt per pair

Example:

A 100-Watt amp with 4 6L6GC, 5881 or EL34 would saturate usually at 100W RMS power output. With TONE BONE™ converters it saturates at:

- ToneBone PENTODE:** with 4 converters about 32 Watt, with 2 about 16 Watt
- ToneBone TRIODE:** with 4 converters about 16 Watt, with 2 about 8 Watt

EL84 tubes

In case you need to replace the EL84 tubes, we recommend choosing matched tubes. In many tests, we experienced the TAD EL84-STR to provide sweetest tone. Other recommendations are the TAD EL84M for extra long lifetime with a bit more crispy tone and the TAD EL84-Cz for more punch and mids.

