

# Keeley Time Machine Boost

Keeley Electronics, 6400 Industrial Blvd. 2nd Floor, Edmond, OK 73034

SHOP TELEPHONE NUMBER 1-405-341-2025 TOLL FREE 1-866-80-rkfx (1-866-846-7539) / email: fx@rkfx.com



Thank you and congratulations on your decision to purchase the LegendaryTones Time Machine Boost®. This unique two-channel tri-mode booster for guitar enables you to obtain a wide range of boosted sounds to help inspire you to play or cyour music. From its two select vintage booster tones inspired by those made famous in the 1960s and 1970s, to its modern, ultra-transparent clean boost, the Time Machine Boost aims to satisfyeven the most discriminating players.

Built as a no-compromise design, the Time Machine Boost features a completely hand-wired circuit with top grade components that are optimized for the best tone possible as well as low noise.

Your complete satisfaction is our goal. If you have any questions or comments, please contact us at [tmb@legendarytones.com](mailto:tmb@legendarytones.com).

The Team: The Time Machine Boost was born out of an initial vision and desire for this type of product by Legendary Tones ([www.legendarytones.com](http://www.legendarytones.com)) president David Szabados. By partnering with Robert Keeley, president of Keeley Electronics ([www.robertkeeley.com](http://www.robertkeeley.com)), the two worked together on the various aspects of the

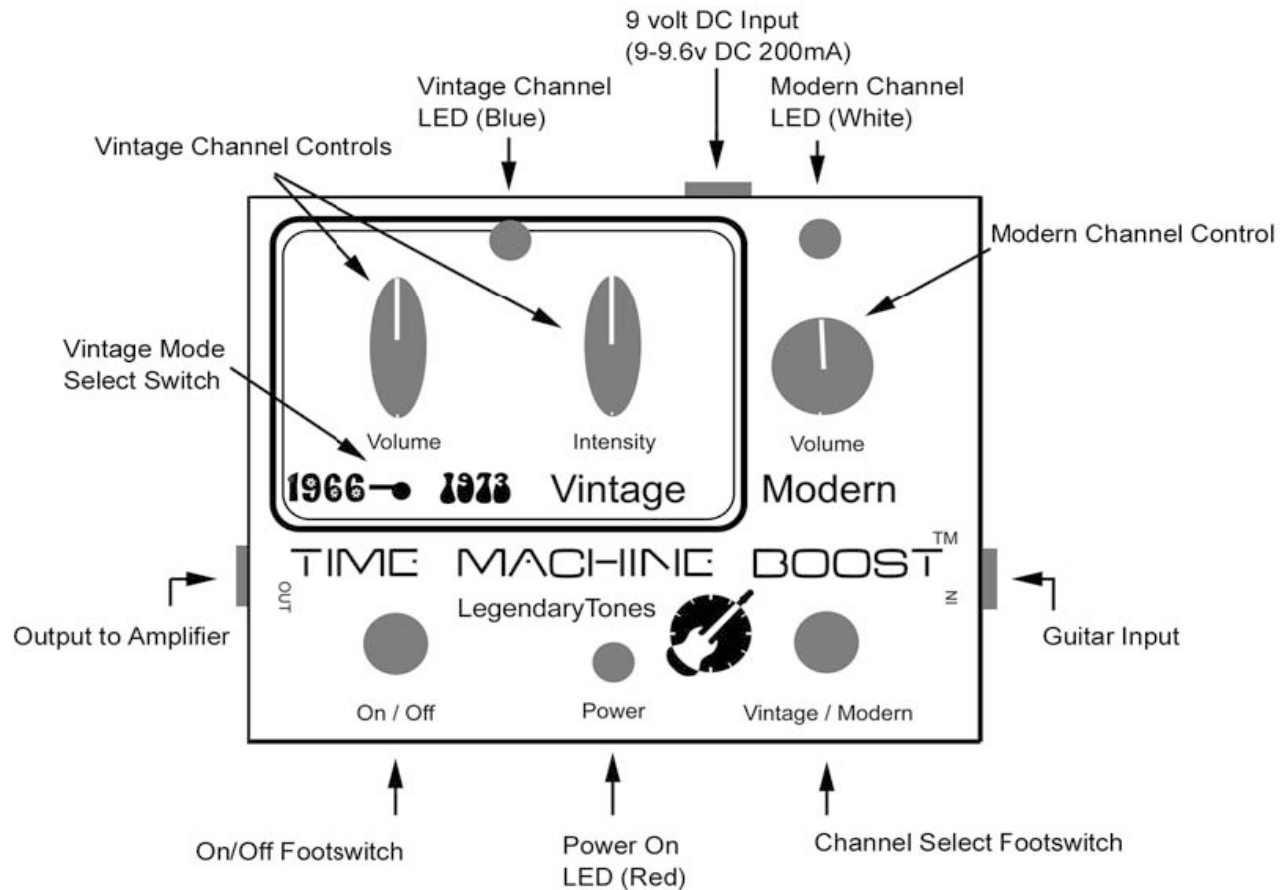
design where each person's talents were best suited. Every element from inside the finely detailed and crafted point-to-point layout, to the exterior design and layout, was carefully planned and executed over the course of a year. This collaborative project between Szabados and Keeley is what ultimately became the Time Machine Boost. Joining Szabados and Keeley for production TMB's is technician and builder Tom Lindenstruth. Tom's attention to detail, perfection, and quality inspection and assembly goes into every TMB built. The partnership between Szabados and Keeley and the fine work of Lindenstruth have created something that can be called more than just a success and future collaborations are planned. But with that said...

Thanks are in order! Many ears and eyes helped the team with the creation of the Time Machine Boost – it's always good to get an outside perspective especially when valid criticisms surface as they often lead to breakthroughs and even better ideas! So with that thanks are in order

## Basic Unit Features

- Two independent channels of operation (Vintage and Modern) with three modes of boosts ("1966", "1973", and "Modern") and separate level controls per each of the Time Machine Boost's two independent channels
- Intensity control for Vintage channel to control harmonic level and shape tone
- True bypass with individual LED indicators for On/Off, Vintage, and Modern channel selection
- Rugged, blue baked enamel finish in a durable die-cast aluminum enclosure finished with attractive silk-screened art and complete labeling.
- 9v battery operation or optional DC adapter; Unit will also function with most onboard pedalboard power supplies that use a positive sleeve (9-9.6 v 200mA) connection.
- Limited Lifetime warranty (see Warranty section below for complete details)

## *Getting Started Using Your Time Machine Boost*



### *Vintage Channel Controls*

- Volume – increases vintage channel volume
- Intensity – increases or decreases high frequencies and harmonic content. Note on Intensity control: Leaving the Intensity control at the full-clockwise position can be considered a “stock” normal starting point for obtaining vintage-types of tones. This control can be adjusted lower if the overtones don’t complement your particular equipment at the “stock” full-up setting.

### *Modern Channel Controls*

- Volume – increases modern channel volume
- Warp – increases the modern channel even more

### *Vintage Mode Select Switch (only functions while unit is in Vintage channel)*

- 1966 – Classic treble boost effect that increases harmonics and gain in select upper mid and high frequencies
- 1973 – Custom modified treble boost effect with more enhanced mids as well as fuller bottom end

### *9v DC Input*

The 2004 model Time Machine Boost operates from a standard 9v battery or 9-9.6v DC and may be used with standard power supplies and with multi-effect systems that utilize a positive sleeve connection.

### *Channel Select Footswitch*

Toggles between Vintage and Modern Channels. Channels can be pre-set with unit power OFF.

### *On/Off Footswitch*

Turns unit on or off. Has true bypass so if unit is damaged or otherwise non-functioning, true bypass will allow signal to continue to flow through the circuit so guitar’s signal will not be cut out. Note on True-Bypass switching: This circuit employs true-bypass switches to physically remove the circuit from your guitar signal when it is off. This being the case capacitors that couple your signal to the effect are not perfect and the voltage they have on them drifts. This voltage will make a pop when the circuit is initially reconnected. Simply switch the unit on and off a couple times when you first connect the pedal to stabilize the voltages in the unit.

## *LEDs*

(Power On - RED, Vintage Channel - BLUE, Modern Channel - WHITE).

## *Battery Access*

Battery for the Time Machine Boost can be accessed by removing the four screws on the bottom of the unit. Current draw is low (approx. 12 mAs) and the battery will provide many hours of use.

## *Applications*

The Time Machine Boost is a level/input voltage-altering effect that is specifically designed to work together with quality tube amplifiers. It is not an overdrive or distortion unit, but a specific set of unique booster circuits designed to enhance the sound of your guitar rig. By using the Time Machine Boost with its levels set high, your amp will respond by naturally compressing to provide further overdrive and sustain – especially if your amp is set for initial clipping before the Time Machine Boost has been activated! The effect is very safe and in fact these boosting techniques are one of the methods that have been used by professionals for many years. Boosters in various forms were often a musician's "secret weapon" for tone enhancement.

At lower level settings, the Time Machine Boost can either alter the tonal frequencies and enhance the musical harmonics while in one of its two vintage modes, or serve as a completely transparent preamp that allows volume and dynamic changes to be served up at the click of its footswitch. The possibilities for applications are only limited by one's imagination!

The Time Machine Boost can also be used successfully with overdrive and distortion pedals for a variety of additional unique uses. By positioning the Time Machine Boost AFTER an overdrive unit in a chain set to an amp running otherwise clean, you can increase your volume level without changing the character or amount of distortion created by the overdrive unit itself. This is useful for example when you'd like to move "up front" in the mix during a solo. The Time Machine Boost can also be placed BEFORE an overdrive unit to increase the amount of distortion/drive of the unit while retaining similar output levels. This is effective for moving from light overdrive to heavy drive musical passages with easy footswitchability. Experiment with these two positions of Time Machine Boost placement within your signal chain to determine the best uses for you.

The Time Machine Boost may also be used for a wide range of other purposes such as a clean preamp to strengthen the tone and body of guitars that use lower output pickups. It can be used creatively to alternate between its two boost modes using different level settings for each channel so you can use it for unique rhythm and lead tone applications. The key is to experiment and have fun!! What follows is a description of each of the Time Machine Boost's three modes.

## *Vintage 1966*

Classic vintage "Treble Boost" effect and drive at the heart of which is a New Old Stock (NOS) premium germanium transistor. This is the boost sound based on Eric Clapton's famous Rangemaster booster that he used when playing on John Mayall's Bluesbreaker's album. What makes 1966 so special is that with its increase in upper mid and high frequency response comes a natural clipping effect in those same frequencies, courtesy of the select germanium transistor.

## *Vintage 1973*

Classic vintage Boost specifically tuned for more bottom end and fuller range, yet still retaining the great top-end sparkle and drive by way of the same great NOS germanium transistor. 1973 is based on the best of the modified treble-boosters of the day which also had more midrange punch as well. Brian May of Queen used a modified booster circuit with his famous combination of a custom-built guitar coupled with Vox AC30 amplifiers. Tony Iommi of Black Sabbath also used similar modified boosters to drive the front end of his powerful Laney stacks.

## *Vintage Channel Description Conclusion*

Both of these circuits operate in the ways of the classic vintage boosters of the past and every effort was made to faithfully recreate those sweet vintage tones. In the Vintage channel, musical notes are amplified more or less depending on their frequency. A note fretted higher on the instrument will be amplified more and sound louder than a bass note. Every precaution has been taken to make sure the Time Machine Boost's Vintage modes are as noise-free as possible. The difference in noise levels can't be fully appreciated however unless one has tested an original treble-booster and played it side-by-side with the Time Machine Boost!

## *Modern*

A uniquely-tuned, very transparent clean boost that delivers high output with low noise that can overdrive a tube amp into greater and more, harmonically-rich distortion, or serves as preamp to strengthen the initial gain signal of a guitar's pickups. Modern is transparent and offers a LOT of clean boost headroom. It's secret is its use of two hand-selected JFETs that offer a very high input impedance of about 1 Mega ohm. Powering this pair of JFETs is a voltage doubling power supply that delivers 16 volts for increased headroom. The Modern channel can deliver 12 volts peak to peak of output. A nominal guitar signal is only about 0.1 to 0.2 volts. The Modern channel is uniquely designed to give you all of the transparent gain your heart could ever wish for. It's designed to give you YOUR tone, just MORE of it.

Whether you want to take a vintage Fender amp "over the top" to provide stinging rich blues, or beef up the distortion of your Marshall for harder rock sounds, Modern is for the player that wants to maximize the versatility of their gear without altering the inherent tone that they've strived so hard to obtain.

### *Design Features*

- Custom design using premium components and assembly techniques
- Limited new old stock (NOS) germanium transistor for vintage channel
- Unique dual-JFET design with voltage-doubling circuit used for modern channel to provide tube like tone, and deliver clean transparent gain with loads of headroom
- Premium 3DPT footswitches for true bypass with LED
- Switchcraft input and output jacks
- Heavy-duty die-cast aluminum housing
- Premium 22 gauge solid core Teflon insulated wire connected with silver solder

## *Warranty*

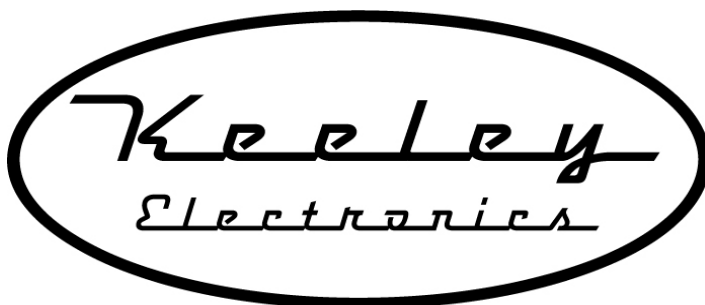
Your complete satisfaction is our goal as is our desire for you to have a lifetime of enjoyable musical use with your Time Machine Boost. As a result, The Time Machine Boost itself is covered by a limited Lifetime warranty to the original owner. This includes a lifetime of assurance that the craftsmanship and non-mechanical components will be covered free of charge in the event of a component failure. Warranty does not cover abuse as determined by the manufacturer, nor does it cover "extreme circumstances" such as damages caused by natural or unnatural disasters, etc. We will do our best to take care of any reasonable repair quickly and will use identical parts when available though parts may be substituted IF original equipment parts are no longer available. Your tone however will NEVER be compromised. Replaced parts will be equal to or better than what was used previously. All mechanical components on the Time Machine Boost are warranted for two years from date of purchase.

### *Please Help Spread the Word!*

Post your comments at the [www.harmony-central.com](http://www.harmony-central.com) user review database at the effects section listed under LegendaryTones. We can't offer you money or bribes for your comments but we would be very appreciative if you help us spread the word about the 2004 Time Machine Boost! Please feel free to post a detailed review once you've had the chance to fully test your Time Machine Boost. Please also contact us if you have any questions: [tmb@legendarytones.com](mailto:tmb@legendarytones.com).

Thank you again for your business and enjoy your Time Machine Boost!

David Szabados, Robert Keeley, and Tom Lindenstruth  
The LegendaryTones Team



Robert Keeley, BSEE  
email: [fx@rkfx.com](mailto:fx@rkfx.com)

site: [www.robertkeeley.com](http://www.robertkeeley.com) & [www.rkfx.com](http://www.rkfx.com)