

## POWER REQUIREMENTS

- \* Utilizes standard 9V alkaline battery (not included). NOTE: *Input* jack activates battery. To conserve energy, unplug when not in use. Power Consumption: approx. 50mA, for battery life of approximately 10 hours.
- \* USE **DC POWER SUPPLY ONLY!** Failure to do so may damage the unit and void warranty.  
DC Power Supply Specifications:
  - 9V DC regulated or unregulated, 100mA minimum;
  - 2.1mm female plug, center negative (-).**Optional factory power supply is available: Tech 21 Model #DC2.**

## WARNINGS:

- \* Attempting to repair unit is not recommended and may void warranty.
- \* Missing or altered serial numbers automatically void warranty. For your own protection: be sure serial number labels on the unit's back plate and exterior box are intact, and return your warranty registration card.

**ONE YEAR LIMITED WARRANTY. PROOF OF PURCHASE REQUIRED.** Manufacturer warrants unit to be free from defects in materials and workmanship for one (1) year from date of purchase to the original purchaser and is not transferable. This warranty does not include damage resulting from accident, misuse, abuse, alteration, or incorrect current or voltage. If unit becomes defective within warranty period, Tech 21 will repair or replace it free of charge. After expiration, Tech 21 will repair defective unit for a fee.

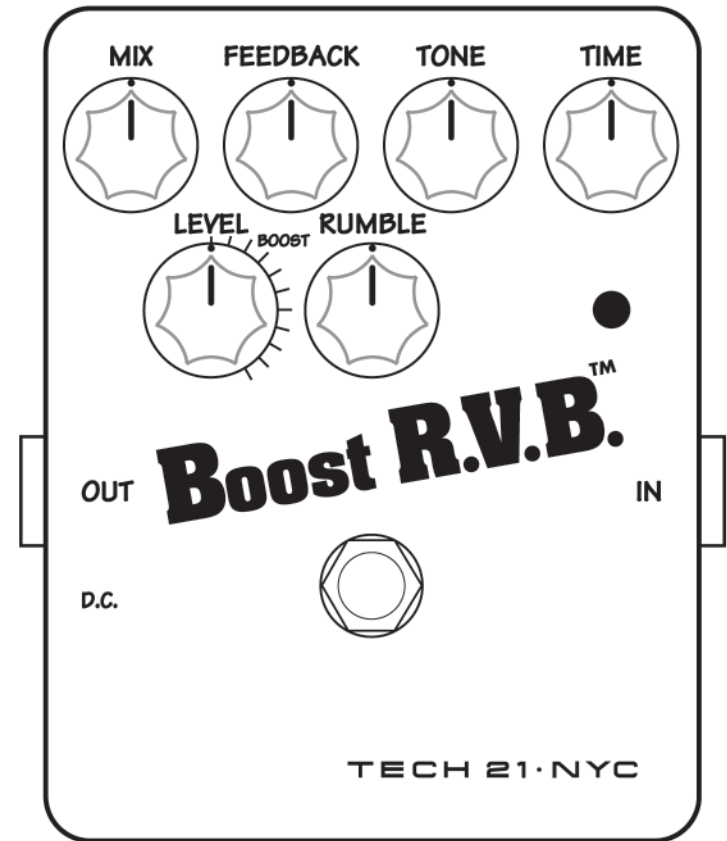
**ALL REPAIRS** for residents of U.S. and Canada: Call Tech 21 for **Return Authorization Number**. Manufacturer will **not** accept packages without prior authorization, pre-paid freight (UPS preferred) and proper insurance.

**FOR PERSONAL ASSISTANCE & SERVICE:**  
Contact Tech 21 weekdays from 10:00 AM to 5:00 PM, EST.

**MADE IN THE U.S.A.**



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## TECH 21, THE COMPANY

Tech 21 was formed by a guitarist possessing the unusual combination of a trained ear and electronics expertise. In 1989, B. Andrew Barta made his invention commercially available to players and studios around the world. His highly-acclaimed **SansAmp™** pioneered Tube Amplifier Emulation in professional applications for recording direct and performing live, and created an entirely new category of signal processing. There have since been many entries into this niche, yet SansAmp continues to maintain its reputation as the industry standard.

With a full line of SansAmp models, Tech 21 also offers effect pedals and MIDI products, as well as “traditional” style amplifiers for guitar and bass. Each product is thoughtfully and respectfully designed by B. Andrew Barta himself with the player in mind. Our goal is to provide you with flexible, versatile tools to cultivate, control, refine and redefine your own individual sound. Tech 21 takes great pride in delivering consistent quality sound, studio to studio, club to club, arena to arena.

## PRODUCT OVERVIEW

The Boost R.V.B. is an analog reverb emulator pedal that uniquely incorporates a clean boost function for up to 9dB of additional volume. With boost and reverb in a single pedal, your solos will jump out with greater dimension.

This pedal is designed with user-tweakable, “lo-fi” analog technology. By manipulating the controls, you can infuse degrees of warmth and life characteristic of vintage reverbs. The circuitry intentionally injects the inherent imperfections of vintage reverbs, which is what makes them so seductive and nostalgic. A single, *continuously-variable* Time control provides a full sweep of reverb. Rumble contours the low end of the reverb. The Mix, Feedback, Tone and Level controls are 100% analog for warm, organic sounds. The Boost R.V.B. enables you to explore and custom tailor such reverb styles as spring, plate and natural room/hall ambiance.

As with each Tech 21 product, the controls are designed to give you the flexibility to obtain your desired sound. It is our hope that the Boost R.V.B. will be a useful tool for stimulating your creativity and, ultimately, providing the inspiration to play your best.

## THE INS AND OUTS

**1/4” INPUT:** 1megOhm high impedance input, same as traditional tube amps. Also switches battery power on/off. To avoid battery drain, unplug when unit is not in use.

**1/4” OUTPUT:** 1kOhm low impedance output drives long cables without loss of signal integrity, even in bypass.

## SIGNAL LEVEL TO INPUT/CONNECTIONS

The Boost R.V.B. is designed to accommodate instrument level signals to the *Input*, such as the output of a guitar, the output of distortion pedals, etc. For normal operation, signal level to *Input* should be close to that of a standard electric guitar (approx -10dBm / 250mV).

NOTE: Some amplifier effects loops are line level, which will cause the Boost R.V.B. to distort. It will also compress the signal and reduce the output. The same may hold true for mixing boards. Therefore, you may need to obtain a level matching transformer.

Be aware that line level signals will not damage the Boost R.V.B., however the resulting sound may not be particularly desirable.

## GUIDE TO CONTROLS

### TIME

Controls the decay time of the reverb from short to long. This single, continuously-variable control provides a smooth, full sweep to easily dial in the exact amount of reverb with one turn of the knob.

### tone

100% analog shelving filter of 6dB per octave. Effects the high-end of the reverb signal. At maximum (5 o'clock), it has no effect. As you reduce the setting, it will decrease the high-end to round off the signal and add warmth.

**Tone Tips:** Higher settings will yield a brighter, snappier, more *in-your-face* presence. Lower settings will be darker, more distant. In general, and for a more natural sound, the reverb should be slightly darker than your guitar signal or they may clash with each other.

### FEEDBACK

100% analog circuit. Feeds back the reverb signal to the input to increase the amount of reverb. Different from the Time control, Feedback is primarily useful to achieve various spring reverb effects. We recommend using sparingly, as too much can cause oscillation or undesirable feedback. **Feedback tips:** For optimal spring reverb, slowly increase Feedback just to the point of oscillation, then reduce until it stops. For wild special effects, experiment with Feedback on the brink -- or past-- the point of oscillation.

### MIX

100% analog circuit. Adjusts the ratio of direct and reverb signal. While most reverb pedals provide a maximum 50/50 mix ratio via a level control, the Tech 21 Mix control offers a sweep from 100% dry to 100% wet. This gives you more flexibility when you want to run through a parallel effects loop without annoying phase cancellation, and to make the reverb signal louder than the direct signal for special effect.

### RUMBLE

Controls the amount of low-end content of the signal. At maximum (5 o'clock), there is no effect. Decreasing the setting from max will remove low end to make it tighter, which is useful for spring and plate reverb settings in particular.

### LEVEL / BOOST

100% analog circuit. Adjusts the overall output level. Increasing from unity gain (12 o'clock) provides additional boost, up to 9dB.

**Level tip:** If you have a 100% wet signal going through a parallel effects loop, use the Level to adjust the mix of dry and effected signal.

## BYPASS

Buffered bypass eliminates the shortcomings associated with “true bypass” (pops and clicks, and high-end loss when multiple pedals are connected together), as well as signal loss associated with other types of switching circuits.

## PLACEMENT NOTES

The general rule of thumb with time-based effects, is to place them last in the signal chain. Here are some points to consider:

1) **Into an amp’s effects loop.** This will give you the cleanest, most true representation of the effect because it is last in the chain --after the amp’s tone shaping, compression and distortion. It is the closest way to replicate how reverbs are used in a recording studio.

2) **In front of a distorted amp, amp emulator or distortion pedal.** This is not recommended for any reverb effect because the distortion and compression will all change how the reverb sounds. With the Boost R.V.B., in particular, it will also impact the functionality of the Mix and Feedback controls.

3) **After an amp emulator (such as a SansAmp) or distortion pedal into an amp.** Set your amp completely clean to achieve the same results as running through an effects loop.

## NOTEWORTHY NOTES

1) **To find the best settings** for interacting with your other gear, you may need to use radically different settings for each individual way you use it. You need not be discouraged or suspect something is wrong with the unit. If you’ve got your sound, you’ve simply found the right balance to complement each individual type of gear.

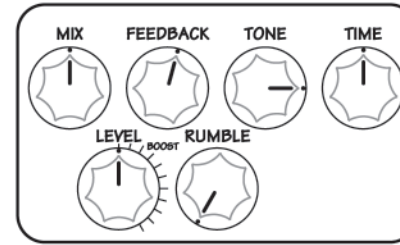
2) **When recording through a studio mixer,** set the Boost R.V.B. at 100% wet. Use the AUX send/return of the mixer and use the effects knob on the mixer channel to bring in the desired amount of reverb.

3) **The Boost R.V.B. is very responsive.** Our controls are unusually sensitive and tend to perform well beyond what would be considered “normal.”

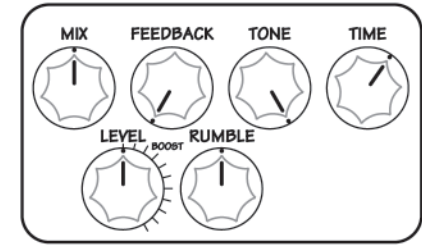
4) **LED indicator light.** When battery runs low, the LED will become noticeably dim. Power consumption is 50mA. With a fresh battery, you can expect the Boost R.V.B. to operate for approximately 10 hours of continuous use --more than enough for a full gig. To conserve battery life, unplug the unit during breaks and any other time it is not in use. We recommend opting for a power supply (Tech 21 Model #DC2 or equivalent), as it is environmentally-friendlier, will ensure operation, save money on batteries, and relieve stress trying to remember when you last changed the battery.

## BOOST R.V.B. SAMPLE SETTINGS

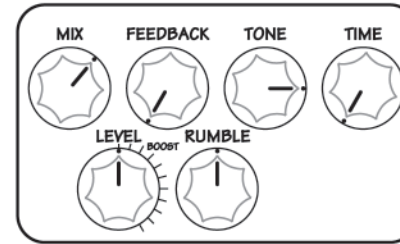
### Spring Reverb



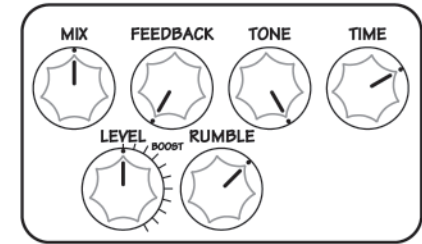
### Plate Reverb



### Small Room

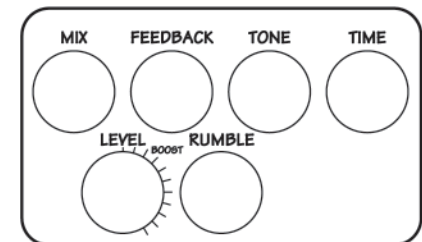
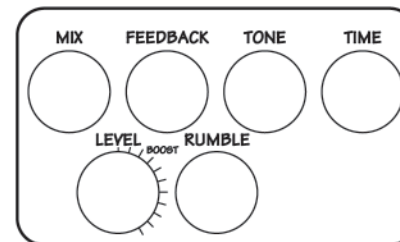
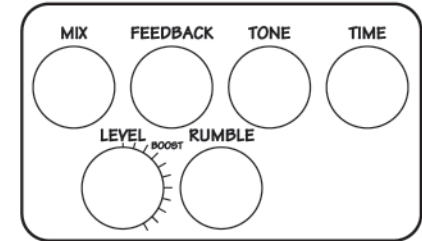
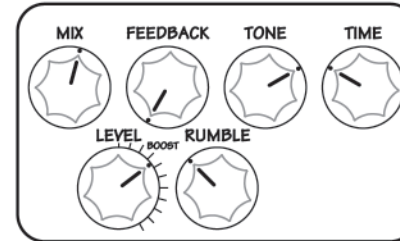


### Big Hall



## FOR CUSTOM SETTINGS:

### Lead Boost R.V.B.



### BOOST R.V.B. CUSTOM SETTINGS

MIX	FEEDBACK	TONE	TIME
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LEVEL BOOST		RUMBLE	
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MIX	FEEDBACK	TONE	TIME
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LEVEL BOOST		RUMBLE	
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