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. 21mA.

• 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 supplies are available: Tech 21 Model #DC9. Also operable via previous models: #DC2 and #DC4.

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 9:00 AM to 5:00 PM, EST.

Hand-built in the U.S.A. using high-quality components sourced domestically and around the globe.
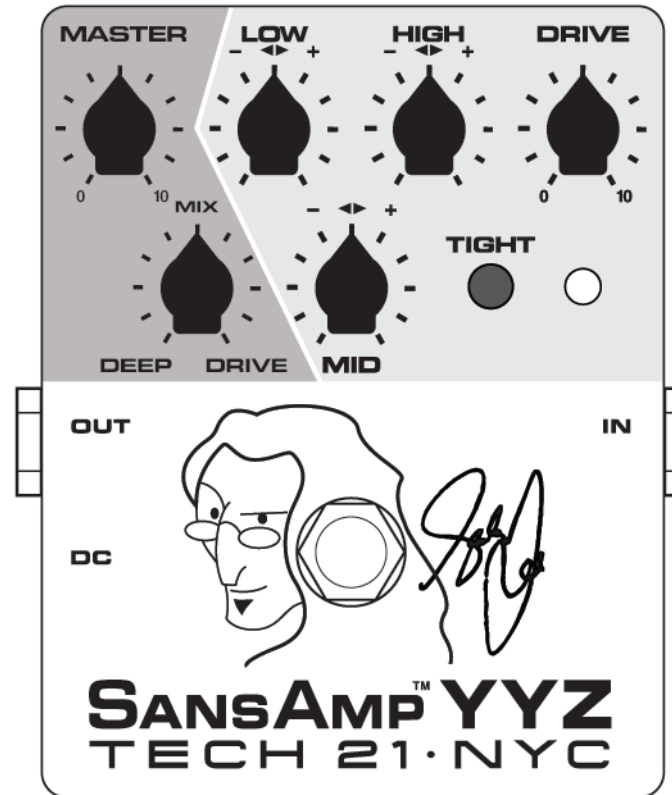
Geddy Lee Signature SansAmp YYZ
Owner's Manual

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

Geddy Lee has been performing without onstage amps and speakers since the Test for Echo Tour in 1996, favoring major household appliances instead. Wanting to streamline and simplify his gear for new projects, Geddy initially partnered with Tech 21 to design a signature SansAmp, the GED-2112. This challenging collaboration involved distilling a rackload of equipment into a single rackspace. According to Geddy, "The GED-2112 is really a continuation of my long-time approach to bass tone. A 'deep clean' tone coupled with the 'edgy crunch' I get from the SansAmp RPM now all in one box."

Challenging ourselves, to bring a super-compact, portable alternative, we further distilled the rackmount into a pedal format. The SansAmp YYZ offers Geddy's core sound and the versatility for many different styles.

Tech 21's proprietary, **100% analog** circuitry gives your instrument a natural warmth and presence as if you were miking your instrument through a tube pre-amp. For studio and live applications, our SansAmp Tube Amplifier Emulation technology enables you to run directly into mixers of recording desks and PA systems, as well as augment your existing amplifier set-up.

With each Tech 21 product, the controls are designed to give you the freedom and opportunity to explore, create, build and rebuild your sound. It is our hope that the SansAmp YYZ will be a useful tool for stimulating your creativity and, ultimately, providing the inspiration to play your best.

APPLICATIONS

WITH A BASS AMP RIG:

-As a Stomp Box: Run the 1/4" Output into the front input of an amp or incorporate into your pedalboard chain.

For best results, keep the SansAmp YYZ's Level close to unity gain so as not to overload the amp's input, which could yield undesirable distortion. NOTE: Unity gain is when you have the same volume coming from the amp whether the pedal is on or off --which is not necessarily at 12 o'clock.

-As a Pre-Amp: Run the 1/4" Output of the SansAmp YYZ directly into the power amp input, a.k.a. "effects return" (if applicable), of an amp. This will bypass the tone-coloring pre-amp section of the amp rig.

TO DRIVE A POWER AMP

Run the 1/4" Output of SansAmp YYZ into the input of a power amp and adjust your stage volume with the Level control of the SansAmp YYZ.

TO RECORD DIRECT

You can plug directly into the input of a mixer/recorder and use the on-board sounds of SansAmp YYZ. Bear in mind full-range systems yield a wide frequency response. Therefore, we suggest you start with the EQ levels of SansAmp YYZ at 12 o'clock and increase/decrease to taste.

BE CREATIVE!

SansAmp YYZ is not necessarily just for bass. Try it with cellos, keyboards, fiddle, drums, sax, harmonica, vocals, etc. Also try using SansAmp YYZ in other applications, such as reamping in mixdowns to liven up existing tracks.

SIGNAL LEVEL TO INPUT

The SansAmp YYZ is designed to accommodate instrument level signals to the Input, such as the output of a guitar, the output of (other) distortion pedals, etc.

For normal operation, signal level to Input should be close to that of a standard bass guitar (approx -10dB / 250mV). Hotter signals can over-overdrive the Input of the SansAmp YYZ, even in the cleanest settings, which may result in undesirable distortion. NOTE: Should you purposely or accidentally send a hot signal, it will not harm the unit.

THE INS AND OUTS

Observe Standard Audio Procedure:
TURN (SansAmp YYZ) **ON FIRST. TURN OFF LAST.**
To avoid unwanted and potentially speaker-damaging "pops" when connecting or disconnecting any equipment, **always mute** mixing board and/or turn down amp volume before plugging or unplugging!

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" UNIVERSAL OUTPUT: Unbalanced low Z output. SansAmp's technologically advanced, single Universal Output is physically compatible for any application: full range (tape, studio monitors, P.A., stereo) and limited range (rack systems, pre-amps, head and cabinet, combos, practice amps).

> **WARNING: DO NOT run the speaker output of *any* amp directly into the SansAmp YYZ. Doing so may result in severe damage to the amp and/or the SansAmp YYZ.**

GUIDE TO CONTROLS

The GED-2112 Geddy Lee Signature SansAmp rackmount introduced a new format for Parallel Pre-Amping --having two separate internal pre-amps that run in parallel. Following this concept, the SansAmp YYZ pedal adapts the architectural structure to simplify blending the two signal paths via its own Mix control.

DRIVE SECTION

DRIVE

Adjusts the overall amount of gain and overdrive, similar to when the output section of a tube amp is being pushed. Also controls the input sensitivity with clean sounds. For the fattest, most robust clean sounds, increase Drive until it starts to distort, then gradually decrease until it disappears.

HIGH and LOW

These active tone controls cut or boost ±12dB from unity gain at 12 o'clock. High is 3.2kHz. Low is 80 Hz.

MID

2kHz @ 20dB boost
1kHz @ 10dB cut

TIGHT BUTTON

Adds definition to your notes in cleaner settings and makes distorted tones snappier.

MIX SECTION

MIX

Blends the ratio of high-end studio clean (Deep) and dirty bass tube amp tones (Drive). The Deep side offers thick, meaty tones, with a preset EQ curve custom tailored to Geddy's personal specs.

MASTER

Controls the overall volume. Adjusts the output level without altering any of the tonal characteristics.

For recording applications, we recommend setting at least halfway (12 o'clock).

For best results with an amplifier, the output level of the SansAmp YYZ should be close or equal to the signal in bypass. Otherwise, it could overload the input of the amp and result in undesirable, ratty distortion. (Don't say we didn't warn you!)

PLACEMENT ORDER OF OTHER EFFECTS

For best results, plug your instrument directly into the SansAmp YYZ. This will preserve the interactive nature of the unit. When incorporating into a pedalboard, we suggest experimenting to find the order that's best for you. As a general guide, we recommend:

Place the following effects BEFORE the SansAmp YYZ:
Compressor, Envelope Filter/Follower, Fuzz Box, Pre-Amp, Wah-Wah.

Place the following effects AFTER the SansAmp YYZ:
Chorus, Delay, EQ, Pitch Shifter, Reverb.

NOTEWORTHY NOTES

1) SansAmp YYZ is an interactive tool. It will react differently to various signal levels, as well as your individual touch. For instance, a hotter signal and a heavy hand will increase the gain structure and result in more overdrive. Conversely, a cooler signal and a light touch decreases the gain structure for a cleaner sound.

2) SansAmp YYZ is very responsive. Our controls are unusually sensitive and powerful. You need not set everything at max to get maximum results. For instance, to brighten your sound, rather than automatically boosting *High* all the way up, try cutting back on *Low* first.

The tone controls also help compensate for the EQ curves found in instrument amps. To find the best settings for interacting with your amp, start with the tone controls at 12 o'clock and cut or boost as necessary. Be aware that amplifiers vary greatly and some may require you to use radical EQ settings on SansAmp YYZ to achieve your desired sound. 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 your particular amp.

3) The noise level of SansAmp YYZ is exceptionally low. However, it may amplify noise emanating from the input source. To minimize noise going into the SansAmp YYZ, we recommend active electronic instruments have the volume set at maximum and tone controls positioned flat. If you need to boost, do so slowly and sparingly.
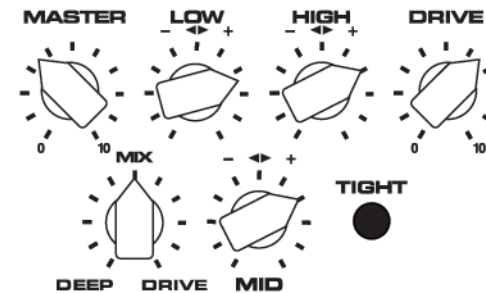•Also check for pickup interference by moving your guitar or turning the volume off. Be aware single coil pickups are more likely to generate noise.
•As is the case with any tube amplifier or electronic device, particularly in high gain settings, you may be getting outside interference caused by lights, transformers, etc.
•Be conscious of how the controls interact. Remember, they are atypically sensitive, so start out "normal" and then go as nuts as you like.

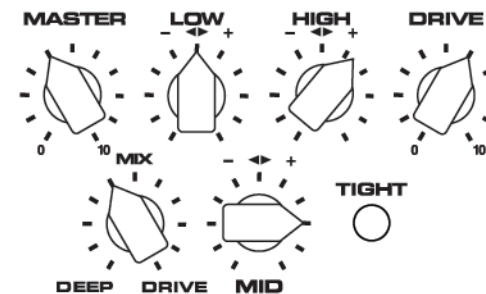**4) LED indicator light.** When the battery begins running low, the LED will become noticeably dim.

SansAmp YYZ Sample Settings

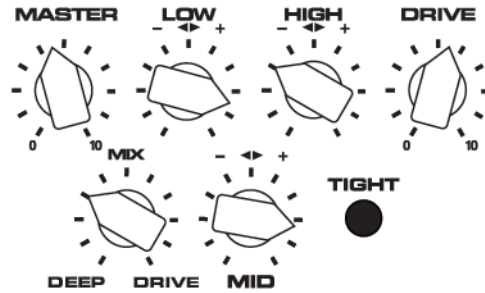ON (IN) OFF (OUT)

NAME: Geddy Lee's Personal Setting

MASTER LOW HIGH DRIVE
0 10 MIX TIGHT
DEEP DRIVE MID

NAME: YYZ Jazz Bass

MASTER LOW HIGH DRIVE
0 10 MIX TIGHT
DEEP DRIVE MID

SansAmp YYZ Sample Settings

ON (IN) ● OFF (OUT) ○

NAME: Roundabout

MASTER LOW HIGH DRIVE

0 10 MIX TIGHT ●

DEEP DRIVE MID

SansAmp YYZ Sample Settings

ON (IN) ● OFF (OUT) ○

NAME: Jack Bruce/Cream
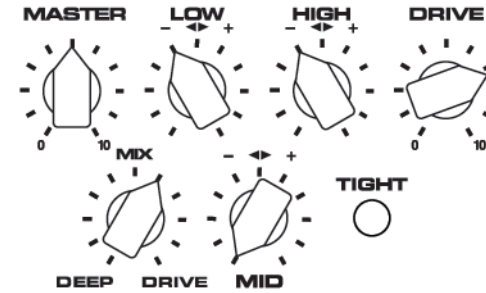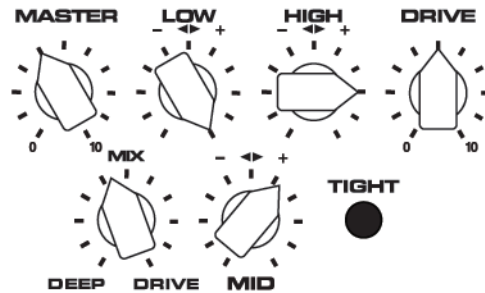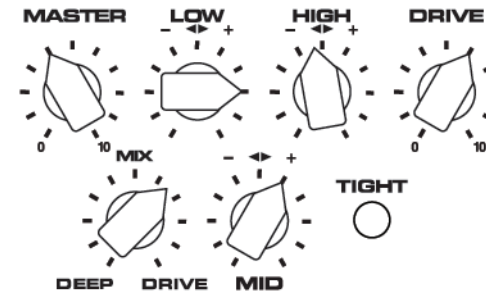
MASTER LOW HIGH DRIVE

0 10 MIX TIGHT ○

DEEP DRIVE MID

NAME: Rickenbacker

MASTER LOW HIGH DRIVE

0 10 MIX TIGHT ●

DEEP DRIVE MID

NAME: Tool

MASTER LOW HIGH DRIVE

0 10 MIX TIGHT ○

DEEP DRIVE MID

SansAmp YYZ Sample Settings

ON (IN) ● OFF (OUT) ○

NAME: Les Claypool

MASTER LOW – ◄► + HIGH – ◄► + DRIVE

0 10 MIX

– ◄► +

TIGHT

DEEP DRIVE MID

SansAmp YYZ Sample Settings

ON (IN) ● OFF (OUT) ○

NAME: Bi-Amped Overdrive

MASTER LOW – ◄► + HIGH – ◄► + DRIVE

0 10 MIX

– ◄► +

TIGHT

DEEP DRIVE MID

0 10

NAME: Warm Tube/Studio

MASTER LOW – ◄► + HIGH – ◄► + DRIVE

0 10 MIX

– ◄► +
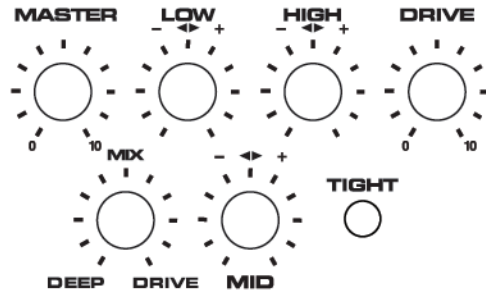
TIGHT

DEEP DRIVE MID

0 10
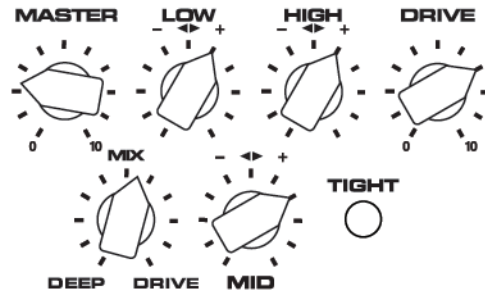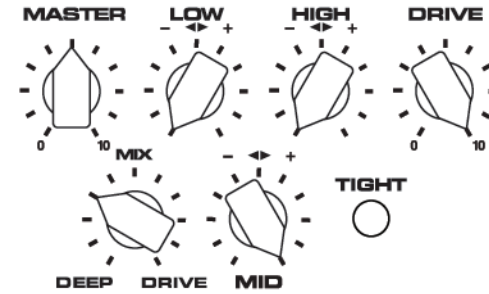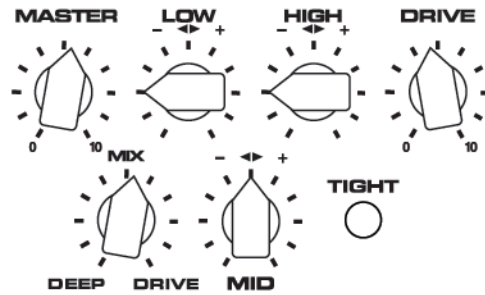
Names of sample settings are intended for descriptive purposes only and should not be construed as an endorsement or affiliation with the companies, products, artists or songs named, except, of course, Geddy Lee.
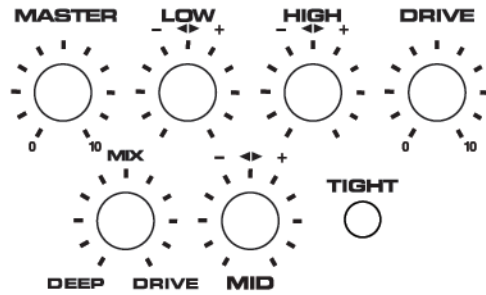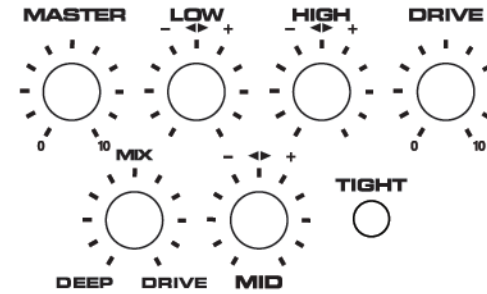
SansAmp YYZ Custom Settings

ON (IN) ● OFF (OUT) ○

NAME: _____

MASTER LOW HIGH DRIVE
0   10   MIX   TIGHT
DEEP DRIVE MID

SansAmp YYZ Custom Settings

ON (IN) ● OFF (OUT) ○

NAME: _____

MASTER LOW HIGH DRIVE
0   10   MIX   TIGHT
DEEP DRIVE MID

NAME: _____

MASTER LOW HIGH DRIVE
0   10   MIX   TIGHT
DEEP DRIVE MID

NAME: _____

MASTER LOW HIGH DRIVE
0   10   MIX   TIGHT
DEEP DRIVE MID