

### POWER REQUIREMENTS

Utilizes included 9V DC, 100-240V universal auto-switching power supply, 200mA, center negative. Tech 21 Model #DC9. For instructions how to change the prong assembly, see page 8.

For replacements, contact your local dealer/distributor, or Tech 21.  
Note: Also operable with earlier Tech 21 Models #DC4 and #DC2.  
Maximum power consumption: approx 32mA.

### 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.

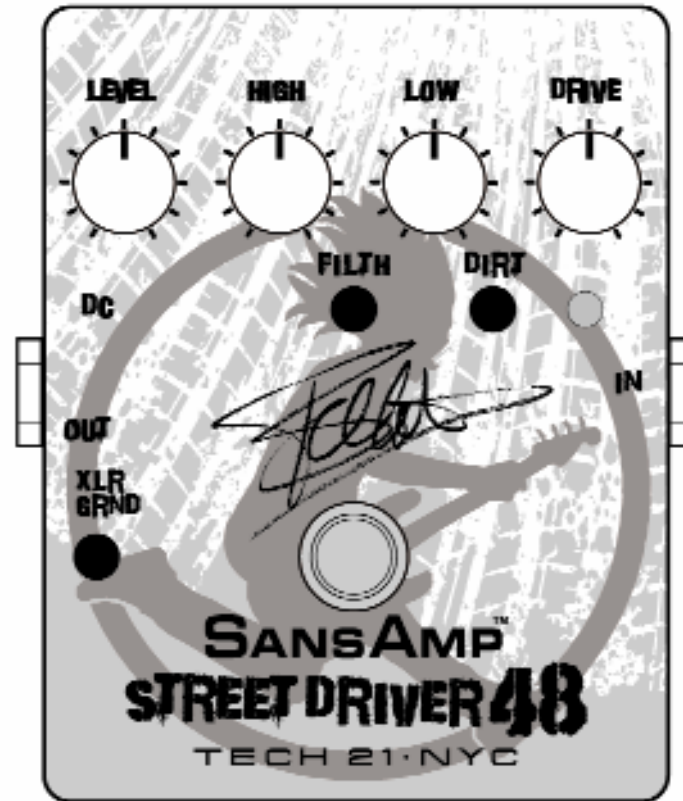
**Hand-built in the U.S.A.** using high-quality components sourced domestically and around the globe.

**TECH 21**

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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, **all-analog 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.

Each product is thoughtfully and respectfully designed by B. Andrew Barta himself with the player in mind. He continually strives to offer player-friendly, truly useful, flexible, multi-functional, roadworthy, workhorse products. In a world of planned obsolescence and constant upgrades, many of our products have changed little, or not at all, and are still in production today. We take great pride in delivering consistent quality sound, studio to studio, club to club, arena to arena.

## PRODUCT OVERVIEW

Anthrax is considered one of the leaders of the thrash metal scene, to which Frank Bello brings a personal style not typically associated with that genre. He somehow manages to merge complex melodic riffs with dizzying speed and accuracy—all while headbanging, romping around the stage, and dashing up to the mic to sing harmonies.

As a New York City kid, Frank spent his early years hanging out on 48th Street, Manhattan's own historic Music Row. That was where he discovered and bought his first SansAmp. He later picked up the SansAmp Bass Driver, which became the heart of his rig for several decades.

Now, Frank has his own Signature SansAmp, the Street Driver 48.

In addition to the specific tones Frank wanted, a major priority was to make the Street Driver 48 simple to operate. He didn't want a zillion knobs, switches, or gratuitous bells & whistles. He wanted players to be able to get a great sound right out of the box, whether it's for metal or R&B or prog rock, whether novice or expert, whether young or advanced in years. As an avid supporter of Little Kids Rock and New York City school music programs, Frank walks the walk to pay it forward by donating gear and inspiring students in their classrooms.

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 Frank Bello Street Driver 48 Signature SansAmp will be a useful tool for stimulating your creativity and, ultimately, providing the inspiration to play your best.

Going beyond his role in Anthrax, Frank's other talents include acting, songwriting, and writing. His heart-wrenching autobiography, *Fathers, Brothers, and Sons: Surviving Anguish, Abandonment, and Anthrax*, is a candid accounting of childhood challenges, stardom, and personal tragedy. Told in a spirited narrative with humor, guts and insights, it's an enlightening read for anyone, in or out of the music world.

## APPLICATIONS

### WITH A BASS AMP RIG:

**-As a Pre-Amp:** Run the 1/4" Output of the SansAmp 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.

**-As a Stomp Box:** Run the 1/4" Output into the front input of an amp. For best results, keep the SansAmp's Level close to unity gain so as not to overload the amp's input. Set your amp's volume level with the pedal in bypass. If you set the amp at a higher volume level and use the SansAmp's level control to reduce volume it will increase the amount of noise level of the amplifier --and vice versa!

**TO DRIVE A POWER AMP:** Run the 1/4" Output, or the XLR Output to the corresponding input of a power amp, and adjust your stage volume with the Level control of the SansAmp.

**TO RECORD DIRECT:** Plug the XLR or 1/4" Output directly into the input of a mixer/recorder. Work with the input trim control on the mixer/recorder and be sure not to overload its input. Bear in mind full-range systems yield a wide frequency response. Therefore, we suggest you start with the EQ levels at 12 o'clock and then increase/decrease to taste.

**IN MIXDOWNS:** You can also use the Street Driver 48 in mixdowns to liven up existing tracks.

## THE INS AND OUTS

**Follow Standard Audio Procedure:**

**TURN (SansAmp) 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.

**1/4" UNIVERSAL OUTPUT:** Unbalanced low Z output. SansAmp's technologically advanced 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).

**BALANCED XLR OUTPUT:** Balanced low Z output.

**XLR GROUND CONNECT SWITCH:** When engaged (IN position), the ground connects. Disengaged (OUT position), the ground of your stage system and other interconnected gear is lifted (isolated) from the ground of the mixing console.

**With a mixer only:** If you are plugging your bass into the SansAmp and taking the XLR Output to a mixer **--and do not have any other grounded equipment connected in the setup--** you will have to push the switch in to connect the ground.

**With a mixer and bass amp:** If you are going to the mixer via the XLR and using the 1/4" Output to feed a bass amp (with its own AC ground), you should have the switch disengaged (in the OUT position) to be in "Ground Lift" mode. If you experience hum and/or buzz with the switch in either position, there may be a problem with the AC outlets you are using.

**NOTE:** If using vintage equipment without proper grounds, take extra care connecting it to modern grounded equipment. Any inadequacies of the ground in vintage gear could result in damaging anything it is connected to.

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

## OVERVIEW OF CONTROLS

### DRIVE

Adjusts the overall amount of gain and overdrive. Similar to when the output section of a tube amp is being pushed.

### LOW, HIGH

These are **active** tone controls. Cut or boost from 12 o'clock. This on-board, post-EQ section gives you full control at your fingertips. Boosting *Low* and *High* compensates for the limited range of speaker cabinets and combos. (See 1/4" Universal Output on page 4.)

TIP: Set EQ at mixing board flat and adjust the SansAmp to taste. If additional or more complex EQ curves are desired, use equalization at console or an out-board unit.

### LEVEL

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 should be at unity gain (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!)

### DIRT SWITCH

Adds extra gain and overdrive for over-the-top nastiness!

### FILTH SWITCH

Adds top-end sizzle and razor edge clarity to emphasize your attack.

## SPEAKER SIMULATION

The all-analog SansAmp Tube Amplifier Emulation technology encompasses the entire signal chain, from pre-amp to power amp to speaker simulation. An integral part of the circuitry, the SansAmp speaker simulation will complement any type of bass speaker cabinet system. You can also place an external IR after a SansAmp to give additional flavor if you so desire. The SansAmp speaker sim is designed and individually tailored for a smooth, even response as would be achieved by a multiply-miked cabinet --without peaks, valleys, and notches associated with single miking and many IRs.

## NOTEWORTHY NOTES & CONSIDERATIONS

**1) Frank Bello Street Driver 48 Signature SansAmp 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. A softer signal and a light touch decreases the gain structure for a cleaner sound.

**2) The noise level of the Street Driver 48 is exceptionally low.** They are analog circuits and behave like vintage tube amps. Typically, noise issues are caused by improper gain staging, amplifying noise from the input source, or other factors. If you encounter any noise issue, please contact our customer support team so we can help you: [info@tech21nyc.com](mailto:info@tech21nyc.com).

Bear in mind that the SansAmp's controls are unusually sensitive and do not require maximum levels of input to achieve high levels of output. To minimize noise going into the SansAmp, we recommend the following:

- a) **Active electronic instruments** should have tone controls positioned flat. If you need to boost, do so slowly and sparingly.
- b) **Passive electronic instruments** should have volume and tone controls set at maximum.

**3)** When the SansAmp is pushed to saturation, you'll get enhanced harmonics, just as you would with an overdriven tube amplifier. Depending on the setting, the unique circuitry limits transient peaks for an even meter reading, so that outboard compressors or limiters may not be necessary.

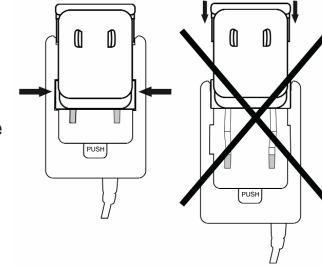
**4) Using effects.** One of the key attributes of SansAmp is the responsiveness to the dynamics and nuances of your playing technique. Therefore, your time-modifying effects should be placed after SansAmp. If placing a tone-modifying effect before SansAmp, be sure to set the output level of the effect at unity gain (see #5) with the output level of the instrument.

**5) "Unity gain"** means that the signal level is relatively the same when the pedal is in bypass and when it is engaged.

## UNIVERSAL POWER SUPPLY

The SansAmp Street Driver 48 is shipped with a power supply set up with a U.S. prong assembly. To change the prong assembly to one of the included European, UK or Australia/New Zealand styles, be sure the power supply is unplugged and follow these instructions:

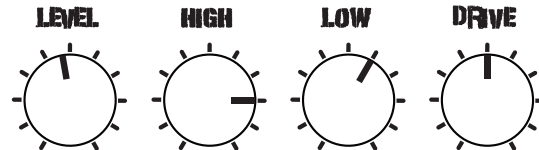
Press the PUSH switch to release the prong assembly. Slide the assembly up (about halfway) to align the side tabs of the prong assembly with the slots of the power supply housing. Then pull up to remove the assembly. Choose the new prong assembly, align the side tabs with the slot of the housing, slide down until it clicks into position.



**NOTE: You cannot slide the prong assembly all the way out or all the way in.**

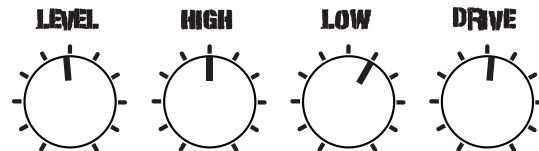
**SansAmp Street Driver 48 Sample Settings**

● ON (IN)  
○ OFF (OUT)



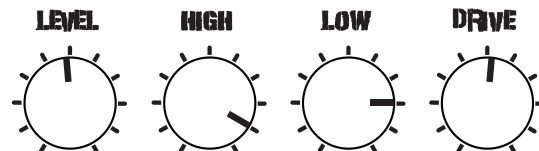
**FRANK BELLO 1 (MAIN)**

**FILTH** ● **DIRT** ○



**FRANK BELLO 2 (CLEAN DIRT)**

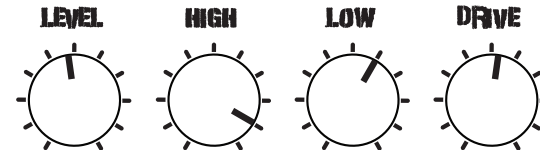
**FILTH** ○ **DIRT** ○



**FRANK BELLO 3 (DIRTIER)**

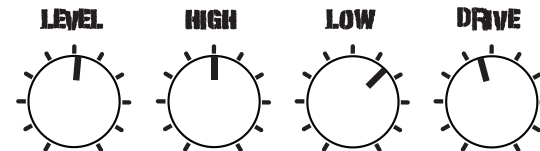
**FILTH** ● **DIRT** ○

**SansAmp Street Driver 48 Sample Settings**



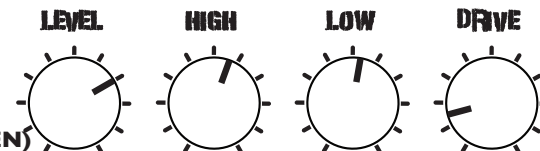
**FRANK BELLO 4 (DIRTIEST BASTARD)**

**FILTH** ● **DIRT** ●



**(RUSH)**

**FILTH** ○ **DIRT** ○



**(MAIDEN)**

**FILTH** ○ **DIRT** ○

### SansAmp Street Driver 48 Sample Settings

ON (IN)  
 OFF (OUT)

**LEVEL** **HIGH** **LOW** **DRIVE**

**CHEAP TRICK**  
**FILTH** **DIRT**

Detailed description: This block shows the 'CHEAP TRICK' sample setting. It features four knobs: LEVEL (set to approximately 10 o'clock), HIGH (set to approximately 10 o'clock), LOW (set to approximately 12 o'clock), and DRIVE (set to approximately 4 o'clock). Below the knobs are two toggle switches: FILTH (OFF) and DIRT (ON).

**LEVEL** **HIGH** **LOW** **DRIVE**

**JOE JACKSON**  
**FILTH** **DIRT**

Detailed description: This block shows the 'JOE JACKSON' sample setting. All four knobs (LEVEL, HIGH, LOW, DRIVE) are set to the 9 o'clock position. Both the FILTH and DIRT toggle switches are in the OFF position.

**LEVEL** **HIGH** **LOW** **DRIVE**

**VAN HALEN**  
**FILTH** **DIRT**

Detailed description: This block shows the 'VAN HALEN' sample setting. The LEVEL knob is set to approximately 10 o'clock, HIGH to 9 o'clock, LOW to approximately 1 o'clock, and DRIVE to 9 o'clock. Both the FILTH and DIRT toggle switches are in the ON position.

### SansAmp Street Driver 48 Custom Settings

ON (IN)  
 OFF (OUT)

**LEVEL** **HIGH** **LOW** **DRIVE**

**NAME:** \_\_\_\_\_  
**FILTH** **DIRT**

Detailed description: This block shows a custom setting template. All four knobs (LEVEL, HIGH, LOW, DRIVE) are in their default 12 o'clock position. Both the FILTH and DIRT toggle switches are in the OFF position. A line for naming the setting is provided below the knobs.

**LEVEL** **HIGH** **LOW** **DRIVE**

**NAME:** \_\_\_\_\_  
**FILTH** **DIRT**

Detailed description: This block shows another custom setting template, identical to the one above, with all knobs at 12 o'clock and both toggle switches in the OFF position.

Sample settings are a general guide to get you started and may vary depending on your individual playing style and/or gear. Use your ears to adjust accordingly.

Names of sample settings are for descriptive purposes only and should not be construed as an endorsement or affiliation with any companies, products or artists named, except, of course, Frank Bello!

**SansAmp Street Driver 48 Custom Settings**



**LEVEL**    **HIGH**    **LOW**    **DRIVE**

**FILTH**    **DIRT**

**NAME:** \_\_\_\_\_

**LEVEL**    **HIGH**    **LOW**    **DRIVE**

**FILTH**    **DIRT**

**NAME:** \_\_\_\_\_

**LEVEL**    **HIGH**    **LOW**    **DRIVE**

**FILTH**    **DIRT**

**NAME:** \_\_\_\_\_

**SansAmp Street Driver 48 Custom Settings**

**LEVEL**    **HIGH**    **LOW**    **DRIVE**

**FILTH**    **DIRT**

**NAME:** \_\_\_\_\_

**LEVEL**    **HIGH**    **LOW**    **DRIVE**

**FILTH**    **DIRT**

**NAME:** \_\_\_\_\_

**LEVEL**    **HIGH**    **LOW**    **DRIVE**

**FILTH**    **DIRT**

**NAME:** \_\_\_\_\_