

### 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. 4mA.
- **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.

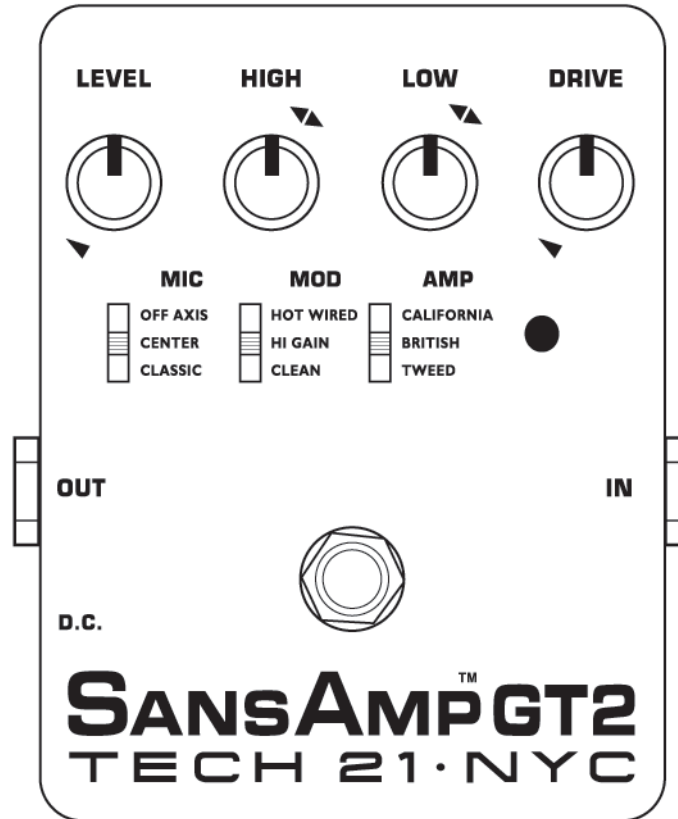
**ALL REPAIRS** for residents of U.S. and Canada: Call Tech 21 for **Return Authorization Number**. Manufacturer will **not** accept packages without prior authorization, pre-paid freight (UPS preferred) and proper insurance.

**FOR PERSONAL ASSISTANCE & SERVICE:**  
Contact Tech 21 weekdays from 9:00 AM to 5:00 PM, EST.

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

**TECH 21**

T: 973-777-6996 • F: 973-777-9899  
E: [info@tech21nyc.com](mailto:info@tech21nyc.com) • [www.tech21nyc.com](http://www.tech21nyc.com)  
©1993 Tech 21 USA, Inc. (Rev 5/06)



## 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

With the **100% analog** SansAmp GT2, you can “architecturally” create your own rig in an instant.

Simple to operate, SansAmp GT2 gives you immediate access to your choice of amplifier, how you would modify it, and the cabinet/mic placement that is best for your purposes. We’ve taken the best parts of the most desirable tube amplifier set-ups and broken them down into individual components. You can mix and match specific sound characteristics in intriguing ways that would otherwise be physically improbable, probably impractical, and definitely not cost effective.

On-board, post-EQ is included to give you optimum control. A custom footswitch actuator provides smooth, silent engagement of the circuitry. The buffered bypass ensures no high frequency signal loss through long cable lengths.

As your needs change and as your imagination flourishes, SansAmp GT2 gives you the freedom and opportunity to explore, create, build and rebuild your sound.

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 SansAmp GT2 will be a useful tool for stimulating your creativity and, ultimately, providing the inspiration to play your best.

## APPLICATIONS

### WITH A GUITAR AMP

Run the output of SansAmp GT2 directly into the input of the power amp input, a.k.a. “effects return,” (if applicable) of an amp. This will bypass the tone coloring section of the pre-amp.

Otherwise, run SansAmp GT2 into the front input of an amp. Be sure to keep the Level of SansAmp GT2 close to unity gain, so as not to overload the amp’s input, which could result in undesirable distortion.

**TIPS** for setting up your amp when using the front input:

1. Plug into low gain channel or input.
2. Turn off the Bright switch.
3. Turn presence control (if applicable) to 12 o’clock or below.
4. Set tone controls as flat as possible.

### TO DRIVE A POWER AMP

Run the output of SansAmp GT2 into the input of a power amp with an input sensitivity of -10dB to 0dB. Then use the master volume control of the power amp to adjust your stage volume.

### TO RECORD DIRECT

You can plug directly into the input of a mixer/recorder and use the on-board sounds of SansAmp GT2. Bear in mind full-range systems yield a wide frequency response. Therefore, we suggest you start with the EQ levels of SansAmp GT2 at 12 o’clock and increase/decrease to taste.

### BE CREATIVE!

SansAmp GT2 is not just for guitar and bass. Try it with keyboards, fiddle, drums, sax, harmonica, vocals, etc. Also try using SansAmp GT2 in other applications, such as in mix-downs to liven up existing tracks.

## SIGNAL LEVEL TO INPUT

The SansAmp GT2 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 electric guitar (approx -10dB / 250mV). Hotter signals can *over-override* the *Input* of the SansAmp GT2, 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

### Standard Audio Procedure:

#### TURN (SansAmp GT2) 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 GT2. Doing so may result in severe damage to the amp and/or the SansAmp GT2.**

## OVERVIEW OF CONTROLS

*Input to Output*, the signal path travels from **right** to **left**. Begin building your rig with the Character Switches. First choose the amplifier tonal character you want. Then the modification to suit your musical preferences. Match it up with the best speaker cabinet/mic placement combination accordingly. Then the Knob Controls fine tune the sound for your particular application, be it direct recording or live performances.

## GUIDE TO CHARACTER SWITCHES

### AMP

Each of the three positions affects multiple dimensions of the personality traits inherent to each amplifier type. This switch is not simply an EQ change, nor does it just affect the gain structure. Each amplifier type has its own tonality and its own input sensitivity. Each reacts differently to the dynamics of the player and to the signal level of the instrument.

|                   |   |                    |
|-------------------|---|--------------------|
| <b>TWEED</b>      | = | Fender®-style      |
| <b>BRITISH</b>    | = | Marshall®-style    |
| <b>CALIFORNIA</b> | = | Mesa/Boogie®-style |

### MOD

Influences the gain structure of the AMP selected.

|                   |  |
|-------------------|--|
| <b>CLEAN:</b>     | Stock tube amp set-up.   |
| <b>HI GAIN:</b>   | Extra gain stage, as if you were to install an additional 12AX7 tube in the pre-amp section. |
| <b>HOT-WIRED:</b> | Produces a tube-driven-past-the-brink texture.   |

### MIC

Determines the orientation and distance of mic placement in relation to the cabinet. Regardless of the position of this switch, it is as if the cabinet is being miked in a “dead room” or isolation booth, without ambiance.

**CLASSIC:** Achieves a flat response associated with distant mic placement. Similar to a combo amp loaded with original “blue frame” Jensen®-type speakers. This position increases mid-range content and there’s greater definition of notes to cut through a cluttered mix. It is recommended for classic *early* tube amp sounds, and live applications, in particular.

**CENTER:** Has peaks and valleys associated with close miking. Similar to a 4x12 cabinet with Celestion®-type speakers having a mic at the center of a cone. There is greater high mid-range content and increased low end. It is recommended for achieving big, mega crunch, balls-to-the-wall results.

**OFF-AXIS:** Has peaks and valleys associated with closing miking, except the mic is positioned at the edge of a speaker cone. Similar to *Center*, but it produces a smoother, softer sound with less upper mid-range content. When used in conjunction with the *Hot-Wired MOD* position, it will round-off the tone.

## GUIDE TO KNOB 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 the arrow indicators. 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 3)

TIP: Set EQ at mixing board flat and adjust SansAmp GT2 to taste. If additional or more complex EQ curves are desired, use equalization at console or an outboard 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 GT2 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 guitar directly into the SansAmp GT2. This will preserve the interactive nature of the unit. 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 GT2:

Compressor, Envelope Filter/Follower, Fuzz Box, Pre-Amp, Wah-Wah.

#### Place the following effects **AFTER** the SansAmp GT2:

Chorus, Delay, EQ, Pitch Shifter, Reverb.

## NOTEWORTHY NOTES

**1) SansAmp GT2 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 GT2 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 guitar 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 GT2 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 GT2 is exceptionally low.** However, it may amplify noise emanating from the input source. To minimize noise going into the SansAmp GT2, 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 cause 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 (around 6 volts), the LED will become noticeably dim.

### SansAmp GT2 Sample Settings

**FENDER BASSMAN®  
STYLE**

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

**MIC** **MOD** **AMP**

OFF AXIS  
CENTER  
CLASSIC

HOT WIRED  
HI GAIN  
CLEAN

CALIFORNIA  
BRITISH  
TWEED

### SansAmp GT2 Sample Settings

**FENDER®  
FUNK  
STYLE**

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

**MIC** **MOD** **AMP**

OFF AXIS  
CENTER  
CLASSIC

HOT WIRED  
HI GAIN  
CLEAN

CALIFORNIA  
BRITISH  
TWEED

**MARSHALL®  
PLEXI  
STYLE**

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

**MIC** **MOD** **AMP**

OFF AXIS  
CENTER  
CLASSIC

HOT WIRED  
HI GAIN  
CLEAN

CALIFORNIA  
BRITISH  
TWEED

**FENDER®  
SRV  
STYLE**

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

**MIC** **MOD** **AMP**

OFF AXIS  
CENTER  
CLASSIC

HOT WIRED  
HI GAIN  
CLEAN

CALIFORNIA  
BRITISH  
TWEED

**BOOGIE®  
ORIGINAL  
STYLE**

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

**MIC** **MOD** **AMP**

OFF AXIS  
CENTER  
CLASSIC

HOT WIRED  
HI GAIN  
CLEAN

CALIFORNIA  
BRITISH  
TWEED

**MARSHALL®  
BLUES-  
BREAKER  
STYLE**

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

**MIC** **MOD** **AMP**

OFF AXIS  
CENTER  
CLASSIC

HOT WIRED  
HI GAIN  
CLEAN

CALIFORNIA  
BRITISH  
TWEED

### SansAmp GT2 Sample Settings

**VAN HALEN STYLE**

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

**MIC** **MOD** **AMP**

|  |   |                                     |
|--|---|-------------------------------------|
| <input checked="" type="checkbox"/> OFF AXIS | <input checked="" type="checkbox"/> HOT WIRED | <input type="checkbox"/> CALIFORNIA |
| <input type="checkbox"/> CENTER              | <input type="checkbox"/> HI GAIN              | <input type="checkbox"/> BRITISH    |
| <input type="checkbox"/> CLASSIC             | <input type="checkbox"/> CLEAN                | <input type="checkbox"/> TWEED      |

**METALLICA STYLE**

**MIC** **MOD** **AMP**

|  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> OFF AXIS | <input checked="" type="checkbox"/> HOT WIRED | <input checked="" type="checkbox"/> CALIFORNIA |
| <input type="checkbox"/> CENTER              | <input type="checkbox"/> HI GAIN              | <input type="checkbox"/> BRITISH               |
| <input type="checkbox"/> CLASSIC             | <input type="checkbox"/> CLEAN                | <input type="checkbox"/> TWEED                 |

**KILLER METAL STYLE**

**MIC** **MOD** **AMP**

|  |   |  |
|--|---|--|
| <input type="checkbox"/> OFF AXIS          | <input checked="" type="checkbox"/> HOT WIRED | <input checked="" type="checkbox"/> CALIFORNIA |
| <input checked="" type="checkbox"/> CENTER | <input type="checkbox"/> HI GAIN              | <input type="checkbox"/> BRITISH               |
| <input type="checkbox"/> CLASSIC           | <input type="checkbox"/> CLEAN                | <input type="checkbox"/> TWEED                 |

### SansAmp GT2 Sample Settings

**SLAP BASS**

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

**MIC** **MOD** **AMP**

|  |   |                                     |
|--|---|-------------------------------------|
| <input checked="" type="checkbox"/> OFF AXIS | <input type="checkbox"/> HOT WIRED        | <input type="checkbox"/> CALIFORNIA |
| <input type="checkbox"/> CENTER              | <input type="checkbox"/> HI GAIN          | <input type="checkbox"/> BRITISH    |
| <input type="checkbox"/> CLASSIC             | <input checked="" type="checkbox"/> CLEAN | <input type="checkbox"/> TWEED      |

**SVT® BASS STYLE**

**MIC** **MOD** **AMP**

|  |   |                                     |
|--|---|-------------------------------------|
| <input checked="" type="checkbox"/> OFF AXIS | <input type="checkbox"/> HOT WIRED        | <input type="checkbox"/> CALIFORNIA |
| <input type="checkbox"/> CENTER              | <input type="checkbox"/> HI GAIN          | <input type="checkbox"/> BRITISH    |
| <input type="checkbox"/> CLASSIC             | <input checked="" type="checkbox"/> CLEAN | <input type="checkbox"/> TWEED      |

**KING'S X BASS STYLE**

**MIC** **MOD** **AMP**

|  |                                    |                                     |
|--|------------------------------------|-------------------------------------|
| <input type="checkbox"/> OFF AXIS          | <input type="checkbox"/> HOT WIRED | <input type="checkbox"/> CALIFORNIA |
| <input checked="" type="checkbox"/> CENTER | <input type="checkbox"/> HI GAIN   | <input type="checkbox"/> BRITISH    |
| <input type="checkbox"/> CLASSIC           | <input type="checkbox"/> CLEAN     | <input type="checkbox"/> TWEED      |

® Registered trademarks of their respective companies.

Names of settings are for descriptive purposes only and should not be construed as an endorsement or affiliation with the companies, products or artists named.

### SansAmp GT2 Custom Settings

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

**MIC**      **MOD**      **AMP**

|                          |          |                          |           |                          |            |
|--------------------------|----------|--------------------------|-----------|--------------------------|------------|
| <input type="checkbox"/> | OFF AXIS | <input type="checkbox"/> | HOT WIRED | <input type="checkbox"/> | CALIFORNIA |
| <input type="checkbox"/> | CENTER   | <input type="checkbox"/> | HI GAIN   | <input type="checkbox"/> | BRITISH    |
| <input type="checkbox"/> | CLASSIC  | <input type="checkbox"/> | CLEAN     | <input type="checkbox"/> | TWEED      |

### SansAmp GT2 Custom Settings

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

**MIC**      **MOD**      **AMP**

|                          |          |                          |           |                          |            |
|--------------------------|----------|--------------------------|-----------|--------------------------|------------|
| <input type="checkbox"/> | OFF AXIS | <input type="checkbox"/> | HOT WIRED | <input type="checkbox"/> | CALIFORNIA |
| <input type="checkbox"/> | CENTER   | <input type="checkbox"/> | HI GAIN   | <input type="checkbox"/> | BRITISH    |
| <input type="checkbox"/> | CLASSIC  | <input type="checkbox"/> | CLEAN     | <input type="checkbox"/> | TWEED      |

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

**MIC**      **MOD**      **AMP**

|                          |          |                          |           |                          |            |
|--------------------------|----------|--------------------------|-----------|--------------------------|------------|
| <input type="checkbox"/> | OFF AXIS | <input type="checkbox"/> | HOT WIRED | <input type="checkbox"/> | CALIFORNIA |
| <input type="checkbox"/> | CENTER   | <input type="checkbox"/> | HI GAIN   | <input type="checkbox"/> | BRITISH    |
| <input type="checkbox"/> | CLASSIC  | <input type="checkbox"/> | CLEAN     | <input type="checkbox"/> | TWEED      |

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

**MIC**      **MOD**      **AMP**

|                          |          |                          |           |                          |            |
|--------------------------|----------|--------------------------|-----------|--------------------------|------------|
| <input type="checkbox"/> | OFF AXIS | <input type="checkbox"/> | HOT WIRED | <input type="checkbox"/> | CALIFORNIA |
| <input type="checkbox"/> | CENTER   | <input type="checkbox"/> | HI GAIN   | <input type="checkbox"/> | BRITISH    |
| <input type="checkbox"/> | CLASSIC  | <input type="checkbox"/> | CLEAN     | <input type="checkbox"/> | TWEED      |

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

**MIC**      **MOD**      **AMP**

|                          |          |                          |           |                          |            |
|--------------------------|----------|--------------------------|-----------|--------------------------|------------|
| <input type="checkbox"/> | OFF AXIS | <input type="checkbox"/> | HOT WIRED | <input type="checkbox"/> | CALIFORNIA |
| <input type="checkbox"/> | CENTER   | <input type="checkbox"/> | HI GAIN   | <input type="checkbox"/> | BRITISH    |
| <input type="checkbox"/> | CLASSIC  | <input type="checkbox"/> | CLEAN     | <input type="checkbox"/> | TWEED      |

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

**MIC**      **MOD**      **AMP**

|                          |          |                          |           |                          |            |
|--------------------------|----------|--------------------------|-----------|--------------------------|------------|
| <input type="checkbox"/> | OFF AXIS | <input type="checkbox"/> | HOT WIRED | <input type="checkbox"/> | CALIFORNIA |
| <input type="checkbox"/> | CENTER   | <input type="checkbox"/> | HI GAIN   | <input type="checkbox"/> | BRITISH    |
| <input type="checkbox"/> | CLASSIC  | <input type="checkbox"/> | CLEAN     | <input type="checkbox"/> | TWEED      |