

SAMPLE SETTINGS

LEVEL	TONE	DRIVE A/B	DRIVE A	
				CLEAN BOOST
				ODD HARMONICS O.D.
				EVEN HARMONICS O.D.
				MIXED O.D.
				INSANE GAIN

LEVEL	TONE	DRIVE A/B	DRIVE A
<i>Double Drive</i> TM TECH 21 · NYC			
OUT			IN
D.C.			
Limited Edition			

OWNER'S MANUAL

TECH 21
NEW YORK CITY

T: 973-777-6996 • E: info@tech21nyc.com • W: www.tech21nyc.com
© 2003 Tech 21, Inc.



PRODUCT OVERVIEW

Designed with Tech 21's unmistakably warm, rich **100% analog** circuitry, the Double Drive really is something new --for a change. It offers 2 different types of distortion that are based solely on the **output** stages of specific tube amplifiers: Class A (Vox AC30®-style) and Class A/B (Fender®-style/Marshall®-style). You can use either Drive control individually or together, which creates a unique blend of the 2 distortions and achieves a cascading effect.

The interaction of the two Drives with the Tone control yields an immeasurable number of variations. With the Double Drive, you can go from a clean boost (up to 10dB) to jaw-rattling fuzz. Rather than simply cutting highs, Tone shifts the center frequency of the high cut to maintain the mids without getting muddy.

Characteristic of all Tech 21 products, the Double Drive will not depersonalize your guitar tone. It is highly interactive with your individual playing style and your instrument's individual tonality. It is our hope that the Double Drive will be a useful tool for stimulating your creativity and, ultimately, providing the inspiration to play your best.

APPLICATIONS

The Double Drive is designed to be used with any amp --tube or solid state, vintage or modern. You can achieve the same results using the Double Drive in conjunction with any of our highly-acclaimed SansAmp™ models of Tube Amplifier Emulators. It can also add warmth and dimension to any digital signal processor.

Simply plug your guitar into the Double Drive, and plug the Double Drive into the input of your amp (or the input of a SansAmp).

GUIDE TO CONTROLS

DRIVE A

controls the amount of Class A power amp output stage distortion (like Vox AC30®-style amp), rich in even harmonics. The amount of harmonics is dynamically controlled by the input level. Therefore, you will influence the ratio of harmonics by how hard you pick. At minimum, the circuitry has no tonal effect on the sound and is clean.

DRIVE A/B

controls the amount of Class A/B power amp output stage distortion (like Fender®/Marshall®-style amps), rich in odd harmonics. At minimum, the circuitry has no tonal effect on the sound and is clean.

TONE

is a very musical, specialized low pass filter that shifts the high cut from 10kHz to 1kHz. It allows you to remove the high end without losing mids or getting muddy.

LEVEL

is capable of extremely high output, up to 10dB (even in clean setting). Useful as a "pre-boost" for additional gain out of your amp without altering any tonal characteristics.

THE INS AND OUTS

1/4" INPUT : 1megOhm high impedance input, same as traditional tube amps.

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

®Registered trademarks.

Names of amplifier styles are intended for descriptive purposes only.

NOTEWORTHY NOTES & SUGGESTIONS

- The signal path of Drive A runs into the signal path of Drive A/B. This results in an electronic **multiplication**, rather than addition, of the amount of distortion to achieve a cascading effect.
- If you have hot output pickups, you may experience a hint of distortion when the Drive controls are at minimum.
- The Tone control is unusually sensitive and powerful. You need not set it at max to get maximum results. For guitar amps that tend to be on the bright side, we recommend you begin experimenting with Tone set lower than 12 o'clock.
- The Tone control also helps compensate for the EQ curves found in guitar amps. To find the best setting for interacting with your amp, start with Tone set at 12 o'clock. Cut or boost as necessary. Be aware that amplifiers vary greatly. Some may require you to use a radical setting on the Double Drive to achieve your desired sound. You need not be discouraged or suspect something is wrong with the unit. If you get your sound, it's the right balance to complement your amp.
- The highly efficient, low power consuming LED will fade as the battery runs low (±6.5V). While the Double Drive will continue to operate, we would recommend replacing the battery at this time.

USING WITH OTHER EFFECTS

For best results, plug your guitar directly into the Double Drive. This will preserve the interactive nature of the unit. Otherwise, place the following effects:

BEFORE: Chorus, Envelope Filter/Follower, Wah-Wah
AFTER: Chorus, Distortion (other), Echo, Reverb, SansAmp, Volume Pedal

POWER REQUIREMENTS

*Utilizes standard 9V alkaline battery (not included). To install, simply remove battery door. (NOTE: The *Input* activates battery. To conserve energy, unplug when not in use.) Power Consumption: approx. 5mA.

*USE **DC POWERSUPPLY 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, 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.

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 elect to repair or replace it free of charge. After warranty expires, Tech 21 will repair defective unit for a fee.

ALL REPAIRS for residents of U.S. Call Tech 21 for **Return Authorization Number** . Manufacturer will **not** accept packages without prior authorization, pre-paid freight (UPS preferred) and proper insurance. International purchasers should contact the authorized Tech 21 distributor in their particular country.

FOR PERSONAL ASSISTANCE & SERVICE

Contact Tech 21, Inc., weekdays from 9:00 AM to 5:00 PM, EST.

MADE IN THE U.S.A.