

WARNINGS

- Attempting to repair this unit is not recommended and may void its warranty.
- Missing or altered serial numbers automatically void the warranty. For your own protection, be sure the serial number labels on the unit and exterior box are intact.

ONE-YEAR LIMITED WARRANTY

Manufacturer warrants unit to be free from defects in materials and workmanship for a period of one (1) year from the 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 period expires, manufacturer will repair defective unit for a fee.

PROOF OF PURCHASE IS REQUIRED FOR ANY REPAIR

For residents of the U.S. and Canada, please call Tech 21 for shipping instructions and a Return Authorization Number. Tech 21 will not accept packages without prior authorization, pre-paid freight (UPS preferred), and proper insurance.

FOR PERSONAL ASSISTANCE & INQUIRIES

Contact Tech 21 weekdays from 9:00 AM to 5:00 PM, Eastern Standard Time.

DESIGNED AND MANUFACTURED IN THE U.S.A.

Fill in the following information for future reference:

Serial Number _____

Dealer's Name _____

Dealer's Address _____

Date of Purchase _____

TECH 21

T: 973-777-6996

E: info@tech21nyc.com

W: www.tech21nyc.com

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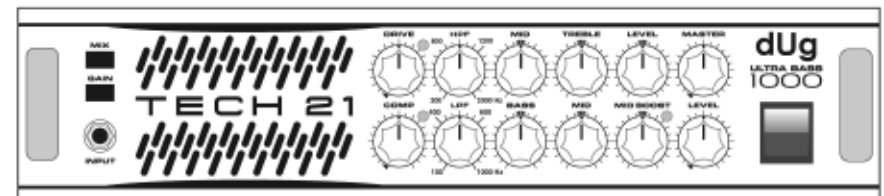


All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities

dUg

ULTRA BASS

10000



Owner's Manual

IMPORTANT SAFETY INSTRUCTIONS. READ AND SAVE THESE INSTRUCTIONS. HEED ALL WARNINGS.



This symbol, wherever it appears, alerts the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol, wherever it appears, alerts the user to important operating and maintenance instructions in the accompanying literature. Read the manual.

This unit is powered by potentially hazardous voltage. Therefore, observe the following safety precautions:

	CAUTION RISK OF ELECTRICAL SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

	ATTENTION RISQUE D'ELECTROCUTION NE PAS OUVRIR	
ATTENTION: POUR REDUIRE LES RISQUES D'ELECTROCUTION NE PAS ENLEVER LE COUVERCLE. AUCUNE PIECE INTERNE N'EST REPARABLE PAR L'UTILISATEUR. POUR TOUTE REPARATION, S'ADRESSER A UN TECHNICIEN QUALIFIE.		

	VORSICHT ELEKTRISCHE SCHLAGGEFAHR NICHT OFFNEN	
VORSICHT: ZUR MINIMIERUNG ELEKTRISCHER SCHLAGGEFAHR NICHT DEN DECKEL ABNEHMEN. INTERNE TEILE KÖNNEN NICHT VOM BENUTZER GEWARTET WERDEN. DIE WARTUNG IST QUALIFIZIERTEM WARTUNGSPERSONAL ZU ÜBERLASSEN.		

1. Read and follow all instructions before using product.
2. Do not use product near water (such as near a bathtub, washbowl, kitchen sink, swimming pool, in a wet basement, etc.).
3. Unit should be located so that its location or position does not impede the flow of air through the ventilation openings.
4. Product should be located away from heat sources such as radiators, heat registers, or other products, including amplifiers, that produce heat.
5. Product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.

6. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the unit.
7. Do not allow objects or liquids to penetrate the enclosure through openings.
8. During heavy use, chassis may get hot to the touch. Handle with care.
9. Protect unit from strong impact.
10. Unplug product before cleaning. Never spray liquid cleaners into the amp: wipe with a clean, lint-free cloth to remove dirt and film.
11. Only use attachments/accessories specified by the manufacturer.
12. This product should be used only with a cart or stand that is recommended by the manufacturer. When a cart is used, use caution when moving the cart/product combination to avoid injury from tipping over.
13. Amplifiers may be capable of producing high volume levels that could cause permanent hearing loss or damage, if the exposure to such levels is prolonged. Such damage is progressive and irreversible! If you experience any hearing loss or ringing in the ears, consult an audiologist.



14. Unplug unit during lightning storms or when unused for long periods of time.

15. Unit must be earth grounded. To reduce risk of electric shock, NEVER remove or attempt to defeat the ground pin of the power cord. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

WARNING: To avoid the risk of fire, electric shock or injury, do not expose this unit to rain or moisture. Do not remove the chassis from its cabinet, or remove metal covering from chassis parts. Removing the chassis from its cabinet exposes extremely dangerous high voltages. There are no user-serviceable parts inside. Hazardous voltages are present inside the chassis. Refer all servicing to qualified personnel.

CAUTION: Never modify the power cord. If original power cord becomes damaged, frayed, or has exposed wires, replace immediately with same rating and gauge, or higher. Replacements are commercially available or you can contact Tech 21 directly.

WARNING: Attempting to repair this unit is not recommended and may void its warranty. NOTE: In the U.S. and Canada, servicing is performed at factory only. In other countries, please refer repairs to the local Tech 21 authorized distributor.

FUSE



Fuse holder is located inside A/C cord receptacle. **You must disconnect and remove power cord to change fuse.** Replace with similar type and same value: 100V and 117V units: use F 8A L
230V and 240V units: use F 5A L

QUICK START AND STOP INSTRUCTIONS

QUICK START: Here's how to get your dUg Ultra Bass 1000 up and running before reading the entire manual. Note: By not reading the manual, you'll miss out on how to get the most out of your new investment!

1. Plug the dUg Ultra Bass 1000 head into speaker cabinet(s). Cabs must be rated for total of 1000W RMS minimum at 4Ω or 600W RMS minimum at 8Ω.
2. Attach the AC cord to the amp and plug into a wall socket.
3. Plug your instrument into the front panel Input jack (on the left side).
4. Make sure the Master level control is turned down. Then turn on the dUg Ultra Bass 1000 and adjust levels accordingly.
5. If using the Footswitch, note that the Mute function engages by default, so you will need to disengage to hear sound.
6. Play your bass and you should hear a sound coming through the amp. If not, check that your guitar's volume control is turned up, recheck your connections, and be sure your cable isn't faulty. If there is still no sound, refer to factory or qualified technician.

QUICK STOP: BEFORE shutting down, be sure the **Master Volume is at MINIMUM.** After shutting down, wait at least 10 seconds before turning it back on (as you would/should with any amplifier).

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 incorporated Tech 21 and made his unique 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. While there have since been many entries into this niche, 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 Andrew 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 professional quality sound, studio to studio, club to club, arena to arena.

dUg Ultra Bass 1000, an Overview

The dUg Pinnick Signature Ultra Bass 1000 is a 2-channel, all-analog bass amp head. It was designed in collaboration with dUg to create a single amp capable of achieving the unique sound he developed by running a guitar amp and a bass amp together, plus using a handful of effects, to merge high-end distortion with low-end bass.

There is an unconventional structure to the channels. Rather than switching from one channel to the other, the intent is to use both channels mixed or the Bottom channel by itself. The Top channel handles the role of a distorted guitar amp and the Bottom channel provides a clean pre-amp and compressor for a more conventional bass amp sound. Mixed together, you get dUg.

In addition to changing channels, the included Footswitch controls the MIX function, which simultaneously engages both channels. There is also a MUTE switch for silently tuning your instrument.

All of the controls and functionality of the dUg Ultra Bass 1000 reflect dUg's personal, perhaps conceptually unusual, specifications. And that's what makes it a dUg Pinnick Signature amp. Being long-time fans ourselves, it's been an incredible experience working with dUg. We are over the moon to make this amp for him and extremely proud to now bring it to you.

FRONT PANEL

The dUg Ultra Bass 1000 is designed with **active** controls, which boost and cut, rather than traditional passive controls which only cut. This effectively doubles many of the control's capabilities, giving you a much larger range of adjustability and, ultimately, more variety. It should be noted that you need not necessarily set everything at max to achieve maximum results. As you experiment and become familiar with the interrelationship of the controls, you'll easily be able to customize your own sounds.

Mix Switch

Manually switches between Mix mode and the Bottom channel when there's no cable plugged into the rear panel Footswitch jack. To remotely mix and change to the Bottom channel, use the included Footswitch (or any standard latching footswitch), which will override the manual selector switch. (For more information, refer to Footswitch section on page 8.)

Gain

A 10dB gain boost, which dUg has engaged at all times. It increases the distortion on the Top channel and compression on the Bottom channel. You can also use Gain to set up the pre-amp for different pickups. For example, with lower output passive pickups, you can have punchier sounds with Gain engaged. Conversely, with higher output active pickups, you can have a cleaner sound with Gain disengaged. Of course, you can also obtain over-the-top distortion by using high output pickups with Gain engaged.



Input Jack

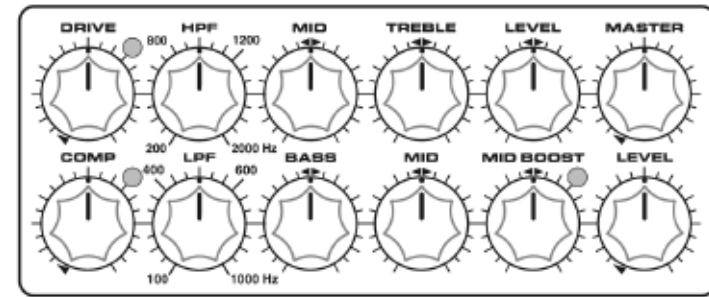
Faithful to the original designs of traditional tube amplifiers, this 1/4" Input is high impedance 1MΩ. The typically additional low sensitivity input, however, is not needed due to the Gain switch.

GUIDE TO CONTROLS - TOP CHANNEL

The Top channel determines the high-end, distorted guitar amp tones and has our proprietary SansAmp™ tube amp and speaker emulation incorporated into the circuitry. It is designed without the "normal" lower spectrum of a guitar amplifier. And it is not particularly intended to be used on its own, but rather in conjunction with the Bottom channel. Of course, you are welcome to experiment on your own!

Drive

Adjusts the overall amount of gain and overdrive, similar to when the output section of a tube amp is being pushed. The first half of the rotation will increase the volume as well as the overdrive.



HPF

dUg traditionally used graphic EQ to eliminate all frequencies under 700 Hz. This High Pass Filter, calibrated at a standard -3dB drop, yields dUg's preferred setting at around 1200 Hz.

Mid and Treble

Active tone controls, cut or boost ± 12 dB from unity gain at 12 o'clock. Bass is internally set at minimum.

Level

Controls the level of the Top channel. Affects the XLR, Pre-Amp and Speaker Outputs.

Master

Master volume affects overall volume of the Speaker Outputs (only) of both channels. It does not affect the XLR Outputs. Reminder: Be sure the **Master Volume is at MINIMUM BEFORE** shutting down.

GUIDE TO CONTROLS - BOTTOM CHANNEL

The Bottom channel provides a clean pre-amp with compression for a warm, more conventional low end. This channel is designed for use on its own when aggressive, distorted tones are not desired. NOTE: When only the Bottom channel is being utilized, the Mid Boost function is activated and the LPF function is deactivated.

Comp

For never-ending sustain, dUg had used an external compressor, always on max. This vintage-style, FET-based compressor has over 60dB of compression with a nice, even level. This provides a fast attack with medium decay.

LPF

Low Pass Filter, corner frequency drop -3dB. For dUg, the preferred LPF setting is between 200-400 Hz. Note: When solely in the Bottom channel, LPF is bypassed.

Bass and Mid

Active tone controls, cut or boost ± 12 dB from unity gain at 12 o'clock. Note: Treble is internally set at 12 o'clock when solely in the Bottom channel. In MIX mode, Treble is internally set at minimum.

Mid Boost

Active high-mid content control, cut or boost $\pm 12\text{dB}$ from unity gain at 12 o'clock. Indicated by the LED, it is engaged when solely in the Bottom channel. It is disabled when in Mix mode.

Level

Controls the level of the Bottom channel. Affects the XLR, Pre-Amp and Speaker Outputs.

REAR PANEL

FUSE



Replace with similar type and same value:

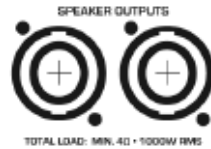
100 and 120V units use: F 8A L

230 and 240V units use: F 5A L

IMPORTANT REMINDER: Fuse holder located inside A/C cord receptacle. **You must disconnect and remove power cord to change fuse.**

Speakon® Speaker Outputs

Wired in parallel. Total load: Min. 4Ω , 1000W RMS. These high quality locking plugs ensure maximum power transfer and provide secure connections.



Reminder, speaker cabinets must be rated:

1000 watts RMS minimum, @ 4Ω

600 watts RMS minimum, @ 8Ω

300 watts RMS minimum, @ 16Ω

SansAmp™ XLR Direct Outputs (nominal level approx -10dB)

There are 3 individual XLR Direct Outputs, one for each channel and one for Mix mode. This separation gives your front-of-house engineer the ability to tailor your sound for each venue environment right from the mixing board. This also allows you to route the signals to separate power amps and separate speaker cabinets for a biamp setup.

IMPORTANT NOTE: Given the unique feature set and functionality of this amp, we strongly recommend just using the Mix XLR if you do not have your own personal FOH engineer. If and when you switch from Mix mode to only the Bottom channel, the Mix XLR will still deliver the signal.



Ground Lifts

Connects or disconnects the ground circuits between the XLR Outputs of the amp and the mixer. We recommend starting with the ground lifted. If necessary, connect the ground by pushing the button in.

Pre-Amp Output

Effects Loop Send.

Power Amp Input

Effects Loop Return.

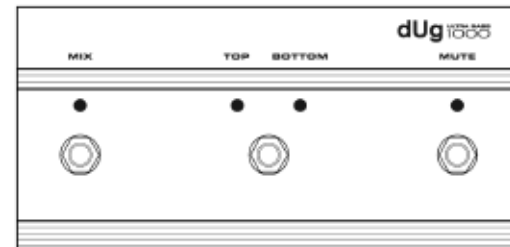
Tuner Output

As long as the unit is plugged in, the tuner output provides a constant, unaffected signal at all times, regardless of the position of the Level controls or the status of the Mute button on the Footswitch. This output can also be used as a buffered out to send a transparent signal to other outboard gear.

TRIPLE-FUNCTION FOOTSWITCH

Corresponding LED indicators let you know the status of each switch:

- **TOP/BOTTOM** remotely switches between the two channels.
- **MUTE** allows you to silently tune your guitar or change instruments.
- **MIX** engages both channels simultaneously.



IMPORTANT NOTES: When you initially plug in the Footswitch, it will automatically default to:

1. Mute mode engaged.
2. Bottom channel engaged.
3. Mix mode engaged.

When you disengage the MIX function, the amp reverts back to the Bottom channel.

The Footswitch is powered via the cable, so batteries are not required. And, unlike most amps which require a custom multi-pin connector, this Footswitch is engineered to utilize **any** standard 1/4" instrument or speaker cable. You can easily replace the cable should you lose it, or purchase different cable lengths to suit your particular needs.

USING WITH ACTIVE BASSES

Active electronics have higher output and typically generate more noise. To compensate, we recommend lowering the volume on your bass. Additionally, experiment with using flat EQ settings and/or decreasing the Drive and Comp controls.

INSTRUCTIONS FOR RACKMOUNTING

1. Unplug unit. Remove top cover. Install rack ears with provided hardware. Replace top cover.
2. If there isn't enough clearance at the bottom of the rack case, detach the rubber feet simply by removing the screws.

OPTIONAL 4x10 SPEAKER CABINET

Model #B410-DP

- 16Ω / 500 watts handling
- Four custom-designed Eminence 10" speakers
- Sealed back design
- Speakon® connectors
- Dimensions: 24"w x 24"h x 16"d
- Weight: 70 lbs.



dUg Ultra Bass 1000 SPECIFICATIONS

Note: With on-going product development and improvements, specifications and/or the cosmetic appearance of this unit may change without prior notice.

Replacement parts are available, i.e., knobs, logo plate, handles, etc. For more information, please contact your authorized dealer or Tech 21.

Model Number:	dUg-1000
Input Impedance:	1MΩ
Nominal Input Level:	-20dBm
Optimal Output Load:	4Ω
Power Output:	1000 Watts RMS minimum, @ 4Ω 600 Watts RMS minimum, @ 8Ω 300 Watts RMS minimum, @ 16Ω
Power Amp Input Impedance:	1MΩ
Power Amp Input Level:	approx. -20dBm
Pre-Amp Output Impedance:	1kΩ
Pre-Amp Output Level:	approx. -10dB*
Maximum Power Consumption:	approx. 1500VA
AC Input Power (factory set):	110V, 117V, 230V, 240V
	NOTE: AC power cannot be switched. Each unit is constructed for specific voltages.
Cycles:	50/60 Hz
Dimensions:	17"w x 3.5"h x 11"d / Overall depth: 11.25"
Weight:	12 lbs.

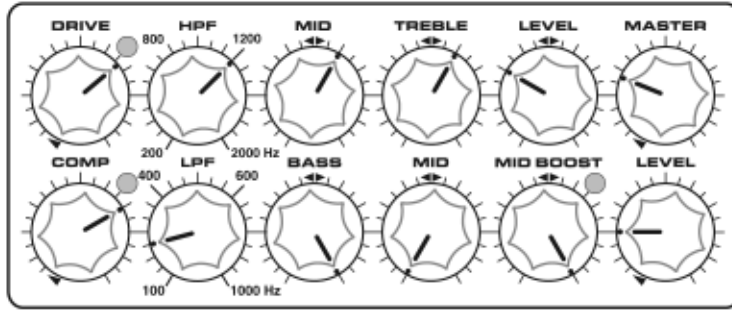
Optional Accessories:	<ul style="list-style-type: none">• 4x10 Speaker Cabinet (Model #B410-DP)• Black vinyl speaker cabinet covers with white logo (Model #VC-B410)
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*Actual levels will vary with your settings.

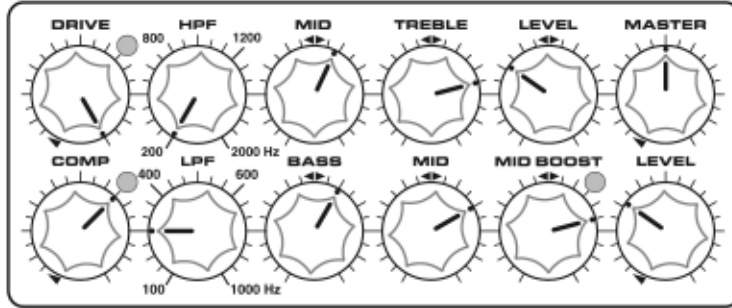
®Registered trademarks.

dUg ULTRA BASS 1000 SAMPLE SETTINGS

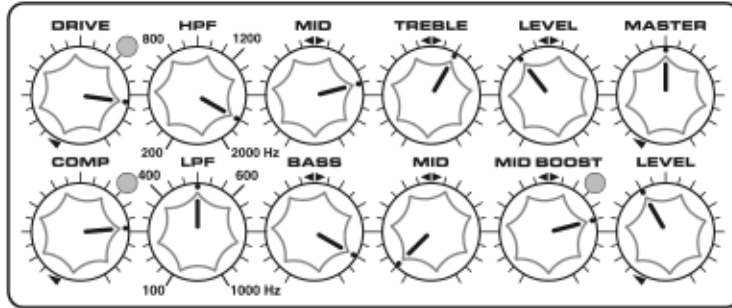
dUg



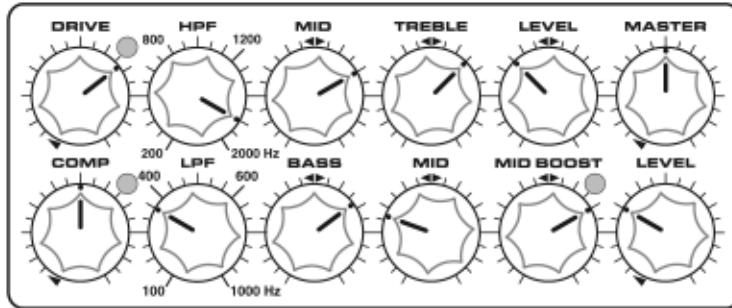
Muse-style
"Hysteria"



Entwistle-style
"Eminence
Front"

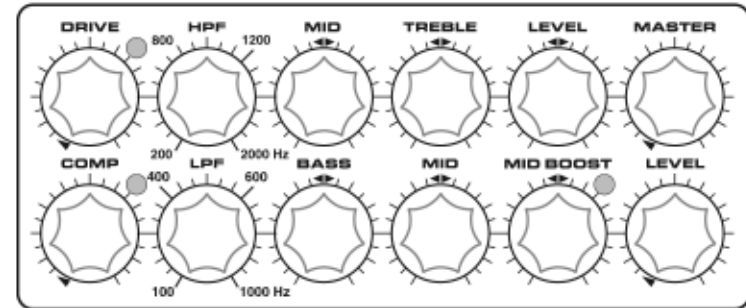
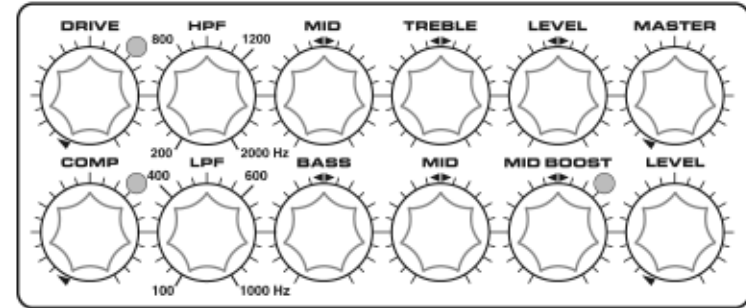
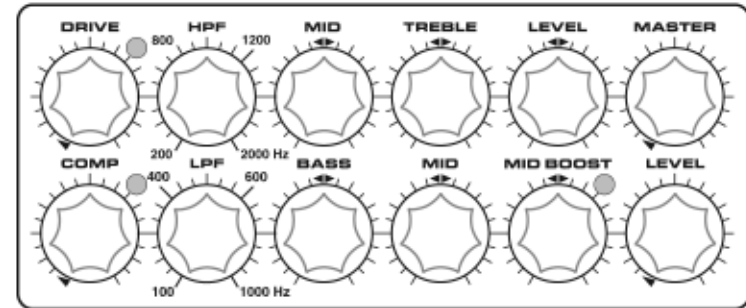
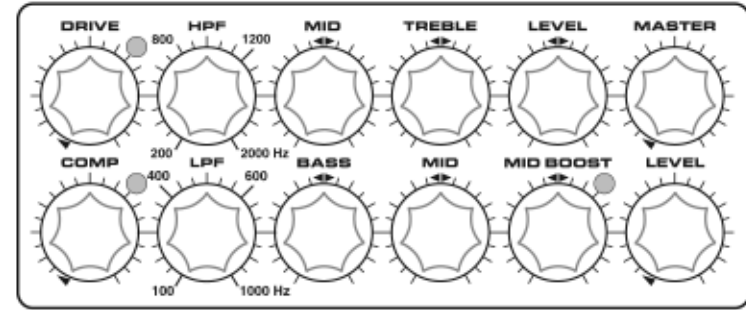


Squire-style
"Roundabout/
Fragile"



These settings are an approximate guide to get you started. Levels should be adjusted to taste and environment. Sample Settings were written using a standard Fender® Precision® bass and Fender® Jazz® bass, both with passive pickups and the GAIN switch engaged.

dUg ULTRA BASS 1000 CUSTOM SETTINGS



®Registered trademarks of their respective companies. ©Copyright. Names of sample settings are intended for descriptive purposes only and should not be construed as an endorsement or affiliation with the companies, products, songs or artists named.

dUg ULTRA BASS 1000 CUSTOM SETTINGS

