

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, Inc. 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's main headquarters 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, Inc., 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 _____

Date Purchased _____

TECH 21
NEW YORK CITY

Tel: 973-777-6996

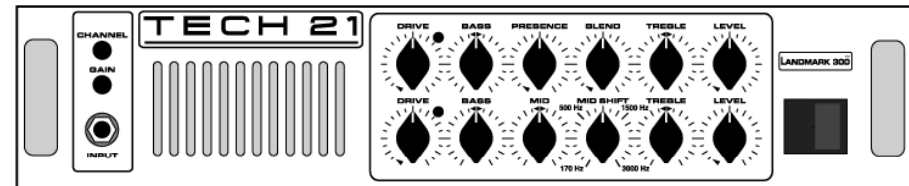
E-Mail: info@tech21nyc.com

Website: www.tech21nyc.com

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LANDMARK 300TM

TECH 21·NYC



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:



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. This unit must be earth grounded. To reduce the risk of electric shock, NEVER remove or otherwise 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 unplug and remove power cord to change fuse.** Replace with similar type and same value:

100V and 117V units: use F 6A L
230V and 240V units: use F 3.15A L

QUICK START INSTRUCTIONS

- Get your Landmark 300 up and running before reading the entire manual. However, by not reading the manual, you'll miss getting the most out of your new investment!
1. Plug the Landmark 300 head into speaker cabinet(s). If you're not using Tech 21's B410s, we recommend cabinets be rated for minimum of 300W RMS at 4 or 200W RMS at 8 .
 2. Plug the Landmark 300's AC cord into a wall socket.
 3. Plug your instrument into the front panel Input jack (on the left side).
 4. Make sure the Level control on each channel is turned down. Then turn on the Landmark 300 and adjust the Level controls accordingly.
 5. Play your guitar 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.

Tech 21, the Company

Tech 21, Inc., 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.

After developing a full line of SansAmp models, Tech 21 expanded its offerings to include effect pedals; a compact, battery operable MIDI footcontroller, the MIDI Mouse; as well as “traditional” style amplifiers. 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.

Landmark 300, an Overview

The Landmark 300 is a 2-rackspace, 300-watt version of its predecessor, the Landmark 600. It offers the same truckload of the most desirable vintage and modern tube amp sounds, including Fender® and SVT® styles, as well as a variety of overdriven tones --the ones that typically require a complex mass of effects that aren't really designed for bass in the first place. The interactive controls give you access to specific tone shaping characteristics to create your own custom sounds as well.

For studio and live applications, our proprietary, 100% analog SansAmp Tube Amplifier Emulation technology enables you to go straight into the mixer of a recorder or PA system via the XLR Direct Output.

The Footswitch further expands the Landmark 300's capabilities. In addition to being able to remotely change channels, there is a MUTE switch which allows you to silently tune your instrument, and a MIX function to simultaneously engage both channels, yielding 3 footswitchable sounds.

With the Landmark 300, you get a truckload of big amp sounds in a single cost-effective package.

FRONT PANEL

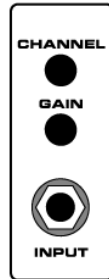
The Landmark 300 is designed with **active** controls, which boost and cut, rather than traditional passive controls which only cut. This effectively doubles many of the control's capabilities, giving you a much larger range of adjustability and, ultimately, more variety. It should be noted that you 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.

Channel Selector Switch

Manually switches between channels when there's no cable plugged into the rear panel Footswitch jack. To remotely change channels, use any standard passive footswitch or Tech 21's Optional Footswitch (Model #BFSWL) which will override the manual selector switch. (For more information, refer to page 9.)

Gain

A 10dB gain boost 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 1M . The typically additional low sensitivity input, however, is not needed due to the Gain switch.

CHANNEL 1

Channel 1 offers an entire sound spectrum of the most coveted traditional bass amp rigs, from vintage to modern styles. You can also obtain overdriven sounds without having to invest in a complex system with multiple rack effects.

Drive

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

Bass and Treble

These active tone controls cut or boost $\pm 12\text{dB}$ from unity gain at 12 o'clock. This powerful EQ section effectively reduces the need for a fixed frequency mid control and enables you to achieve an extensive variety of curves, including a "mid-cut" as well as a "mid-boost."

Adjusting Mid-Range Content: The mid-range level of Channel 1 is preset.

Boosting Bass and Treble gives you the equivalent of a "mid-cut" @ 750HZ where the relative mid-range level is lower than the Bass and Treble frequency levels.

Cutting Bass and Treble is the equivalent of a "mid-boost" @ 750HZ where the relative mid-range level is higher than the Bass and Treble frequency levels. NOTE: The overall output level will change in relation to the adjustments you make with the EQ controls. You can compensate accordingly with the Level control.

Presence

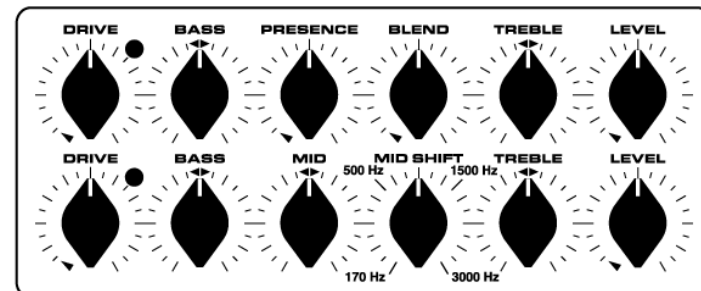
Brings out the upper harmonic content and attack. For a smoother high end and for clean settings, decrease to taste.

Blend

Allows you to blend the direct instrument signal with SansAmp Tube Amplifier Emulation circuitry. In most cases, you will probably have this set at maximum (100% SansAmp). For certain applications, however, such as an ultra-transparent sound or for use with piezo pickup-equipped instruments, you may want to blend-in the direct signal to achieve your desired sound. While the SansAmp Tube Amplifier Emulation circuitry is bypassed when Blend is at minimum, the Bass, Treble and Level controls remain active.

Level

Adjusts the volume level of Channel 1.



CHANNEL 2

Channel 2 offers a different approach to sculpting your sound. The parametric EQ allows you to bring out particular frequencies to get maximum output and dynamics with natural warmth and presence.

Drive

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

Bass and Treble

These active tone controls cut or boost $\pm 12\text{dB}$ from unity gain at 12 o'clock.

Mid Shift and Mid

Sweepable, semi-parametric EQ controls range from 170 Hz to 3.0 kHz, $\pm 16\text{dB}$, respectively. With the Mid Shift control, you can select the center frequency of the mid-range control. With the Mid control, you can then cut or boost that frequency.

NOTE: If you set Mid Shift at 1kHz, Mid operates as a traditional mid-range control.

Level

Adjusts the volume level of Channel 2.

REAR PANEL

1/4" Speaker Outputs: Wired in parallel. Total load: 300W RMS @ 4 Min.

SansAmp™ XLR Direct Out

For recording, the SansAmp XLR output is like having a built-in direct box. You can go direct to the board and get the same sound you hear coming out of the speakers right onto tape or disc. The SansAmp circuitry not only captures the warm, rich, natural harmonics and sweet overdrive characteristics inherent to tube amplifiers, its speaker emulation encompasses all aspects of multiply-miked tube amp rigs.

For live gigs, you can use this output direct into the PA system and you won't need a microphone in front of the amp. And you won't have to subject the audience to a sterile, muddy, or boomy bass tone.

Level Selector Switch

Allows you to connect the Landmark 300 via the XLR Output to other equipment with a variety of signal levels:

0dB position. Line-level output.

-10dB position. Pads down the line-level signal by 10dB.

Ground Lift

Connects or disconnects the ground circuits between the XLR Output 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 Optional Footswitch (see next page). This output can also be used as a buffered out to send a transparent signal to other outboard gear.

USE 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, Presence (in Channel 1) and Treble controls.

INSTRUCTIONS FOR RACKMOUNTING

1. Unplug unit. Remove top cover. Install rack ears with provided hardware. Replace top cover.
2. Considering its weight, we recommend mounting unit on bottom of rack case.
3. If there isn't enough clearance at the bottom of the rack case, detach the rubber feet simply by removing the screws.
4. If there's too much clearance (with or without the rubber feet) and you have a gap, provide additional support to the rear of the unit (such as larger feet, wooden shims, etc.).

TRIPLE-FUNCTION FOOTSWITCH (Model #BFSWL)

The Footswitch further expands the Landmark 300's capabilities:

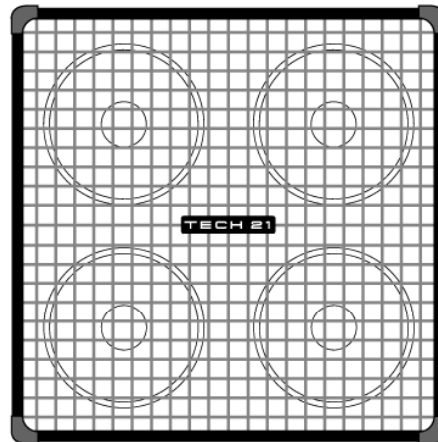
- **CHANNEL** remotely switches between the two channels.
- **MUTE** allows you to silently tune your guitar or change instruments.
- **MIX** engages both channels simultaneously, giving you three footswitchable sound options.



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

OPTIONAL 4x10 SPEAKER CABINET (Model #B410)

- 8 / 400 watts handling
- Four cast frame, custom-designed 10" speakers
- Chrome-plated steel grill
- Rear vented
- Speakon® connectors
- 1/4" connectors
- Dimensions: 24"w x 24"h x 16"d
- Weight: 70 lbs.



LANDMARK 300 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, Inc.

Model Number:	LM300
Input Impedance:	1M
Nominal Input Level:	-20dBm
Optimal Output Load:	4
Power Output:	300 watts RMS @ 4 (minimum load) 200 watts RMS @ 8
Power Amp Input Impedance:	1M
Power Amp Input Level:	approx. -20dBm
Pre-Amp Output Impedance:	1M
Pre-Amp Output Level:	approx. -10dB*
XLR Output Level (selectable):	0 to -10dBm
Maximum Power Consumption:	approx. 600VA Forced-air cooled
AC Input Power (factory set):	100V, 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 16"d / Overall depth: 17.75"
Weight:	21 lbs.
Optional Accessories:	• 4x10 Speaker Cabinet (Model #B410) and corresponding optional black vinyl cover with white logo (Model #VC-B410)

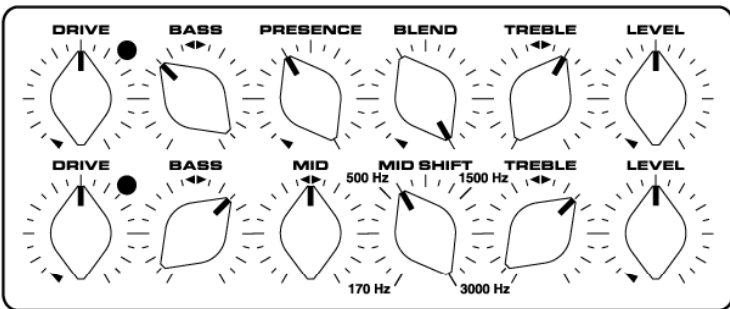
*Actual levels will vary with your settings.

®Registered trademarks.

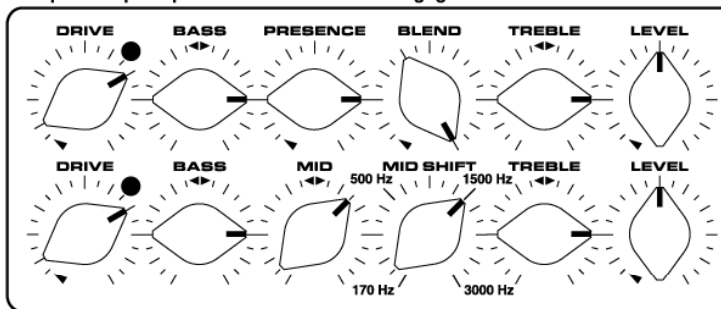
SAMPLE SETTINGS

Note: Sample Settings were written using a standard Fender® Precision® bass with passive pickups and the GAIN switch engaged.

Bassman® I



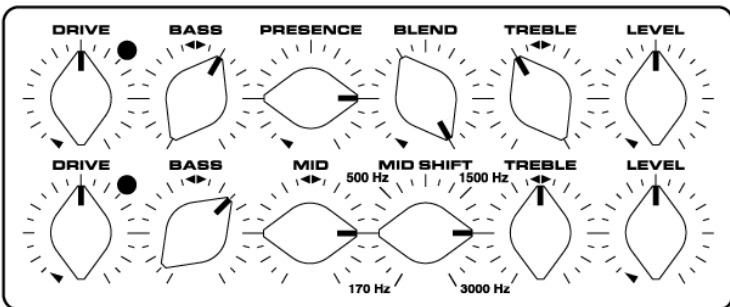
Bassman® II



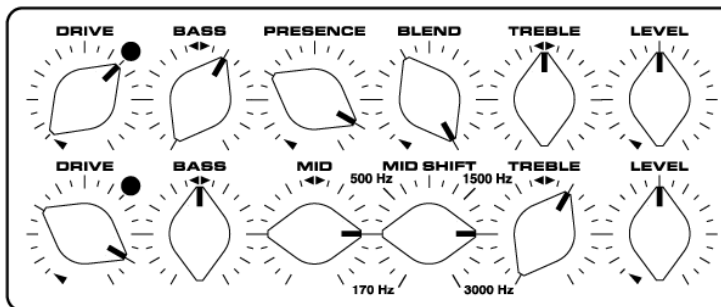
Crimson I

Crimson II

SVT® I



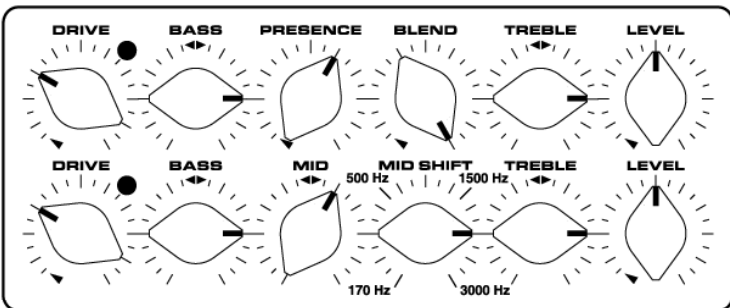
SVT® II



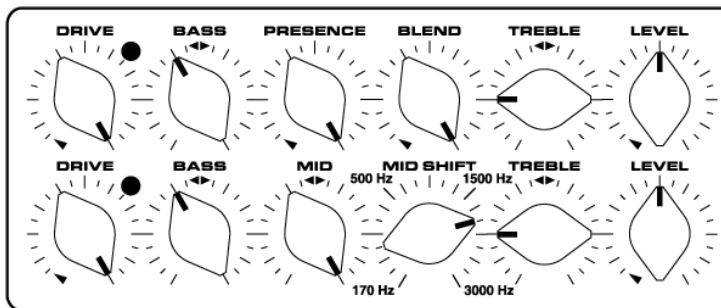
King's X I

King's X II

Slap I



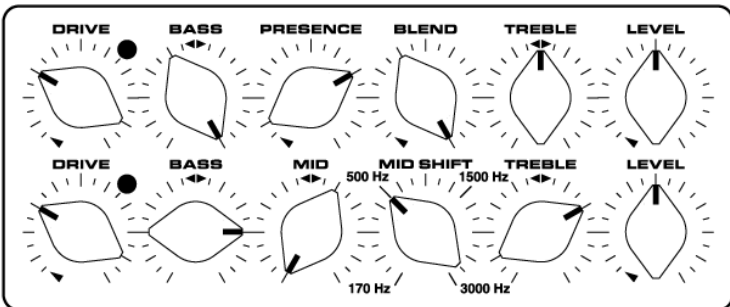
Slap II



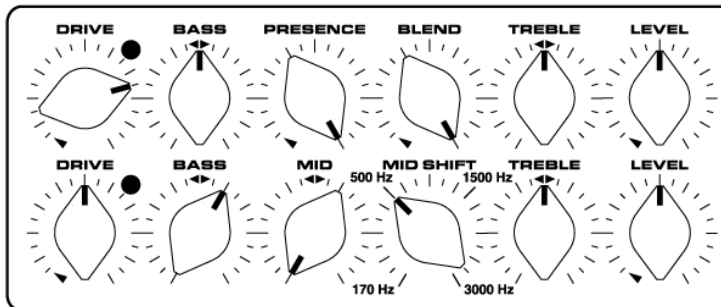
Solo I

Solo II

Reggae I



Reggae II

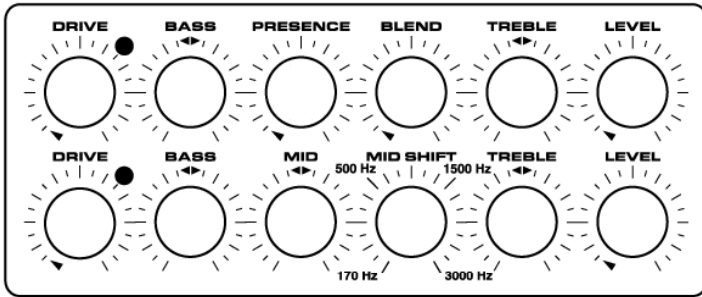


MIXED CHANNELS:
Clean Bottom w/Raspy Top (Uses opt. footswitch w/MIX function engaged.) Interesting texture, difficult to achieve any other way.

These settings are an approximate guide to get you started. Levels should be adjusted to taste and environment. Each style is shown for each channel, which offer slightly different characteristics in feel and harmonic content, i.e., different years of the same model amp.

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

CUSTOM SETTINGS

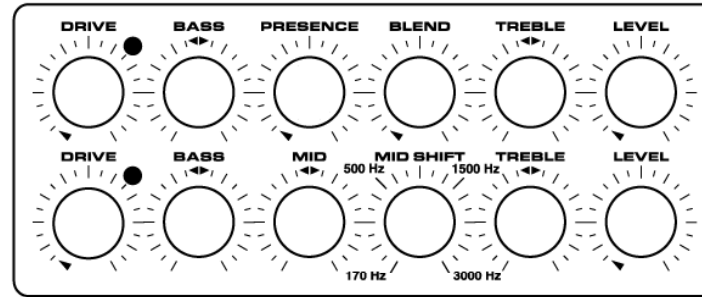


DRIVE BASS PRESENCE BLEND TREBLE LEVEL

DRIVE BASS MID 500 Hz MID SHIFT 1500 Hz TREBLE LEVEL

170 Hz 3000 Hz

Panel 1: Top row (DRIVE, BASS, PRESENCE, BLEND, TREBLE, LEVEL) and bottom row (DRIVE, BASS, MID, MID SHIFT, TREBLE, LEVEL). Frequency markers at 170 Hz and 3000 Hz.

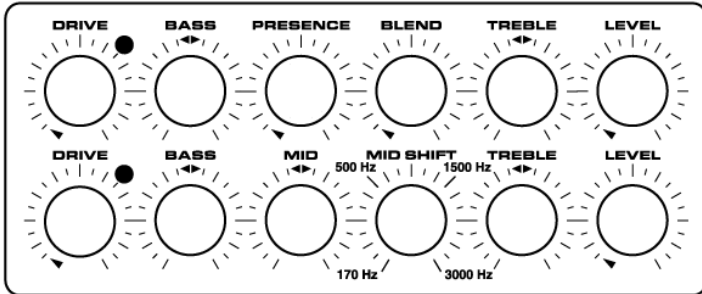


DRIVE BASS PRESENCE BLEND TREBLE LEVEL

DRIVE BASS MID 500 Hz MID SHIFT 1500 Hz TREBLE LEVEL

170 Hz 3000 Hz

Panel 2: Top row (DRIVE, BASS, PRESENCE, BLEND, TREBLE, LEVEL) and bottom row (DRIVE, BASS, MID, MID SHIFT, TREBLE, LEVEL). Frequency markers at 170 Hz and 3000 Hz.

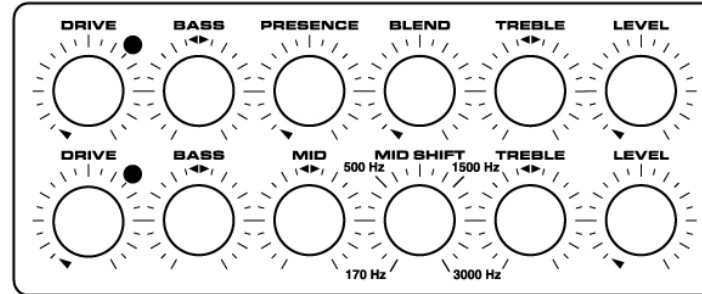


DRIVE BASS PRESENCE BLEND TREBLE LEVEL

DRIVE BASS MID 500 Hz MID SHIFT 1500 Hz TREBLE LEVEL

170 Hz 3000 Hz

Panel 3: Top row (DRIVE, BASS, PRESENCE, BLEND, TREBLE, LEVEL) and bottom row (DRIVE, BASS, MID, MID SHIFT, TREBLE, LEVEL). Frequency markers at 170 Hz and 3000 Hz.

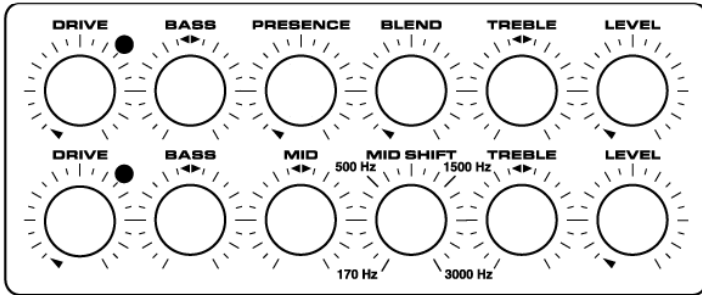


DRIVE BASS PRESENCE BLEND TREBLE LEVEL

DRIVE BASS MID 500 Hz MID SHIFT 1500 Hz TREBLE LEVEL

170 Hz 3000 Hz

Panel 4: Top row (DRIVE, BASS, PRESENCE, BLEND, TREBLE, LEVEL) and bottom row (DRIVE, BASS, MID, MID SHIFT, TREBLE, LEVEL). Frequency markers at 170 Hz and 3000 Hz.

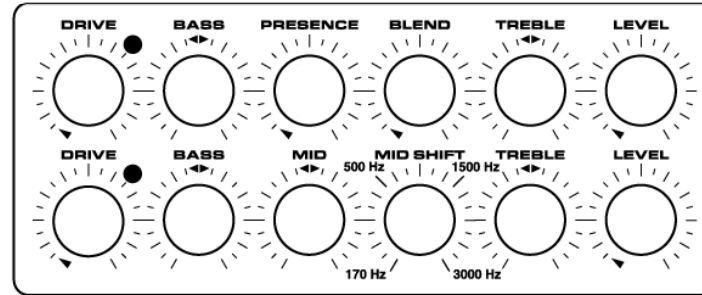


DRIVE BASS PRESENCE BLEND TREBLE LEVEL

DRIVE BASS MID 500 Hz MID SHIFT 1500 Hz TREBLE LEVEL

170 Hz 3000 Hz

Panel 5: Top row (DRIVE, BASS, PRESENCE, BLEND, TREBLE, LEVEL) and bottom row (DRIVE, BASS, MID, MID SHIFT, TREBLE, LEVEL). Frequency markers at 170 Hz and 3000 Hz.

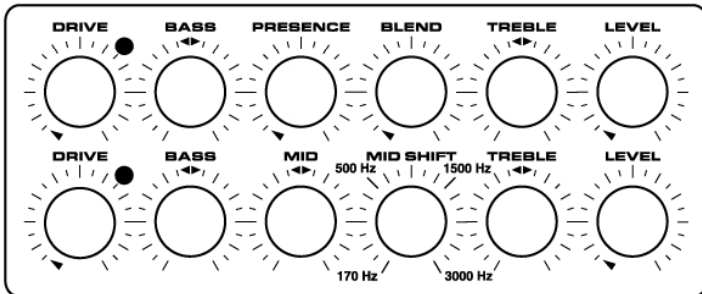


DRIVE BASS PRESENCE BLEND TREBLE LEVEL

DRIVE BASS MID 500 Hz MID SHIFT 1500 Hz TREBLE LEVEL

170 Hz 3000 Hz

Panel 6: Top row (DRIVE, BASS, PRESENCE, BLEND, TREBLE, LEVEL) and bottom row (DRIVE, BASS, MID, MID SHIFT, TREBLE, LEVEL). Frequency markers at 170 Hz and 3000 Hz.

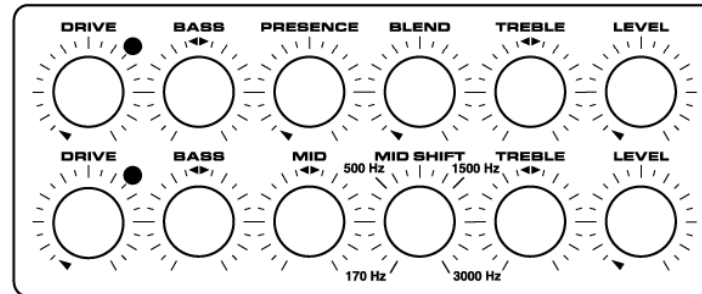


DRIVE BASS PRESENCE BLEND TREBLE LEVEL

DRIVE BASS MID 500 Hz MID SHIFT 1500 Hz TREBLE LEVEL

170 Hz 3000 Hz

Panel 7: Top row (DRIVE, BASS, PRESENCE, BLEND, TREBLE, LEVEL) and bottom row (DRIVE, BASS, MID, MID SHIFT, TREBLE, LEVEL). Frequency markers at 170 Hz and 3000 Hz.



DRIVE BASS PRESENCE BLEND TREBLE LEVEL

DRIVE BASS MID 500 Hz MID SHIFT 1500 Hz TREBLE LEVEL

170 Hz 3000 Hz

Panel 8: Top row (DRIVE, BASS, PRESENCE, BLEND, TREBLE, LEVEL) and bottom row (DRIVE, BASS, MID, MID SHIFT, TREBLE, LEVEL). Frequency markers at 170 Hz and 3000 Hz.