

## 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'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, 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:

Model Number \_\_\_\_\_

Serial Number \_\_\_\_\_

Dealer's Name \_\_\_\_\_

Dealer's Address \_\_\_\_\_

Date of Purchase \_\_\_\_\_

**TECH 21**  
NEW YORK CITY

Tel: 973-777-6996

E-Mail: [info@tech21nyc.com](mailto:info@tech21nyc.com)

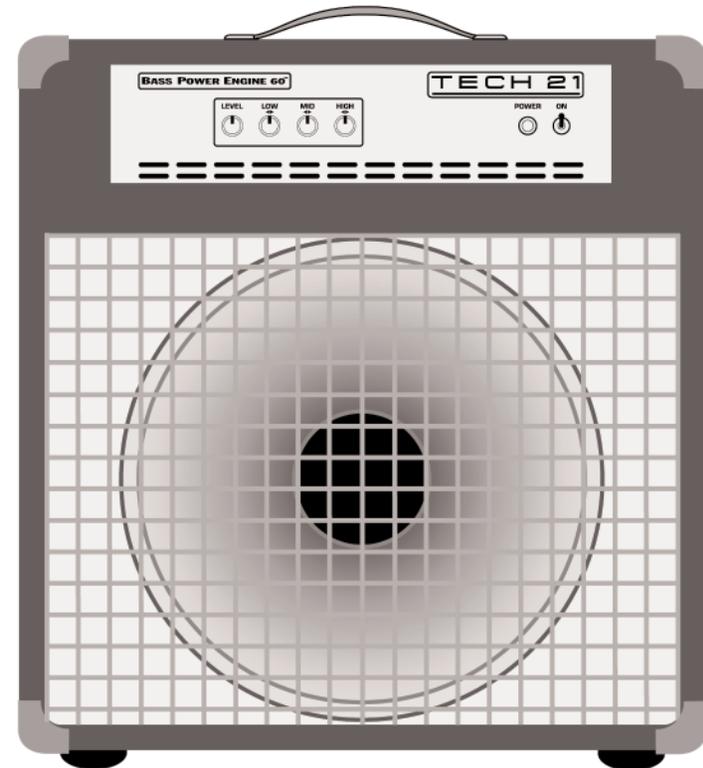
Website: [www.tech21nyc.com](http://www.tech21nyc.com)

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# **BASS POWER ENGINE 60™**

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# **TECH 21·NYC**



**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 the power cord to change fuse.** Replace with similar  
100V and 117V units: use F 3A L type & same value:  
230V and 240V units: use F 1.6A L

**QUICK START INSTRUCTIONS**

Here's how you can get your Bass Power Engine up and running before you read the entire manual. By not reading the entire manual, however, you'll miss out on how to get the most out of your new investment!

1. Plug your amp or pre-amp/processor output into the XLR input (preferably) or 1/4" input of the Bass Power Engine.
2. Be sure your amp or pre-amp/processor is already turned on. (See "Noteworthy Notes" #1: Powering Up and Powering Down.)
3. Be sure the volume of the Bass Power Engine is turned down. Attach the AC cord to the Bass Power Engine, plug it into a wall socket and turn the Bass Power Engine on.
4. Adjust the volume and play your bass. If you do not hear sound through the Bass Power Engine, check that all volume controls are 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 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 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 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 professional quality sound, studio to studio, club to club, arena to arena.

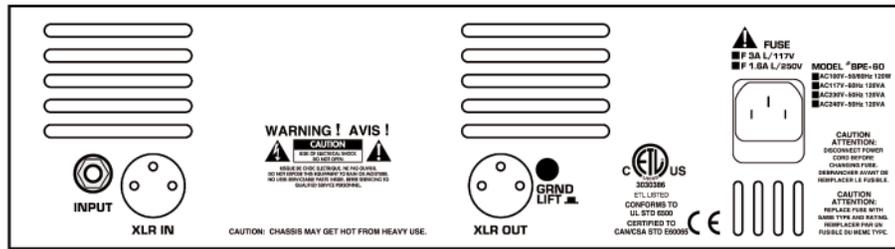
## BASS POWER ENGINE 60, AN OVERVIEW

Like most Tech 21 products, the Bass Power Engine 60 is designed to be multi-functional. For studio and live applications, it can be utilized as a pre-amp amplifier system and as a personal monitoring system.

These rugged cabinets are compatible with **any** direct recording device or pre-amp, analog or digital, tube or solid state, in stomp box or rackmount formats, from **any** manufacturer! (We are, of course, partial to SansAmp, but, hey, that’s just us.) Now you can take all those great direct recording sounds you’ve spent so much time creating out to a gig without having to tweak all of your presets. Simply plug your SansAmp or pre-amp du jour into the Bass Power Engine, and run the XLR output to the house P.A. You can amplify all your personal settings without getting any additional coloration --just volume. You can even take this set-up into the studio and take advantage of employing various miking techniques.

As a live stage monitor, you control what you need to hear. We’ve even included convenient, 3-band active EQ controls to compensate for difficult rooms. Ground independent inputs and output allow you to endlessly chain Bass Power Engines together --even in stereo. There’s no limit to how many you can have --for yourself, your drummer (who will most certainly appreciate the individual level control), or whoever else would benefit from being able to hear you.

## THE INS AND OUTS



### 1/4" INPUT

Accepts 1/4" output of your pre-amp/processor or amplifier. This specialized input features an isolation transformer to eliminate ground loops when using the Bass Power Engine in conjunction with an amplifier. Be aware that this transformer loads down passive pickups. If you would like to plug your instrument directly into the Bass Power Engine, either use an active guitar or any buffered type of effect pedal (Boss®, Ibanez®, Tech 21, etc.) in bypass mode in order to drive the low input impedance of the cabinet.

**WARNING: Do NOT connect the speaker output of ANY amp to the Input of the Bass Power Engine, or damage may occur.**

### XLR IN

Balanced XLR input accepts XLR output of your pre-amp/processor or amplifier. This specialized input is also linked to the isolation transformer to eliminate ground loops when using the Bass Power Engine in conjunction with an amplifier or chaining with additional Bass Power Engines.

**NOTE:** If you have a choice, we recommend utilizing the XLR output of your pre-amp/processor or amp into the XLR input of the Bass Power Engine. The only difference between the two inputs is that the XLR balanced lines provide increased hum rejection. Additionally, we advise against using both inputs at the same time.

### XLR OUT

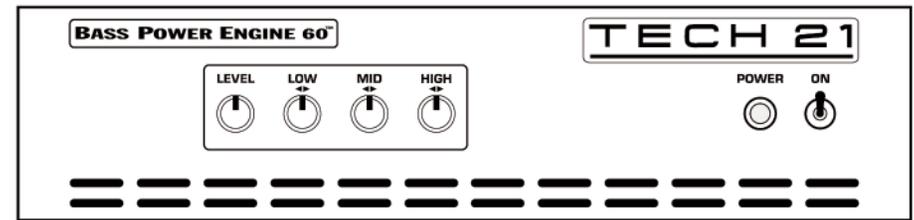
Balanced low impedance XLR parallel output bypasses the tone controls. For live gigs, you can use this output directly into the P.A. system so you won't need to mic the Bass Power Engine.

### GROUND LIFT

Connects or disconnects the ground between the XLR output of the Bass Power Engine and the mixer. We recommend starting with the ground lifted. If necessary, connect the ground by pushing the button in.

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## TONE SECTION



### LOW, MID, HIGH

Boost or cut  $\pm 12$ dB from the center point (12 o'clock). Low is 80 Hz. Mid is 1kHz. High is 3.2 kHz.

These convenient, on-board **active** EQ controls cut and boost, rather than traditional passive controls which only cut. This gives you greater control over a larger range of adjustability to compensate for virtually any venue.

Be aware that you need not set everything at max to obtain maximum results. (See "Noteworthy Notes" #3.)

**NOTE:** Tone controls only affect the power amp and speaker, not the XLR output. The signal going into the 1/4" input or XLR input passes straight through. So you can tailor your stage sound to the room without affecting the sound out of the P.A.

## ODDS AND ENDS

### LEVEL

Adjusts the volume level of the Bass Power Engine. (See "Noteworthy Notes" #4.)

### SPEAKER

Our 100-watt, 8 $\Omega$  custom-designed 12" speaker gives you full range response.

## FUSE



Fuse holder is located inside A/C cord receptacle. **You must unplug and remove the power cord to change fuse.** Replace with similar type & same value:

100V and 117V units: use F 3A L  
 230V and 240V units: use F 1.6A L

## NOTEWORTHY NOTES & CONSIDERATIONS

**1) Powering Up and Powering Down.** To avoid the typical loud pop and potential harm to the Bass Power Engine speaker, power up in this order:

**For Mono Applications:**   **1st:**   Amp or pre-amp/processor  
                                  **2nd:**   Bass Power Engine 60  
Power down in reverse order.

**For Stereo Applications:**   **1st:**   Stereo processor  
                                  **2nd:**   Amp or pre-amp/processor  
                                  **3rd:**   Bass Power Engine 60  
Power down in reverse order.

**With PA System:** Be sure to keep the PA volume fader down until all connections are made and everything is turned on. Before shutting anything off, remember to turn the PA volume fader down.

**2) Hum.** If nothing is plugged into the input of the Bass Power Engine, you may notice a slight hum caused by the open input transformer. When you plug something into the input, the circuit will be completed and the hum will disappear.

**3) EQ.** We recommend starting with all controls flat. Then use each sparingly as needed for whatever room you're in. Remember, you need not set everything at max to obtain maximum results. It would be rare that turning all the tone controls up would accomplish a favorable sound. In most instances, a slight cut of the Mid control should be adequate.

**4) Volume.** When chaining the Bass Power Engine with an amp, be sure to set the Level control to match (approx.) the output volume of the amp. If the Bass Power Engine is set higher than the amp, it may cause undesirable distortion. Note: Rely on your ears. The position of the level knobs of the amp and Bass Power Engine may not necessarily be the same.

**5) Enjoy!**

## BASS POWER ENGINE 60 SPECIFICATIONS

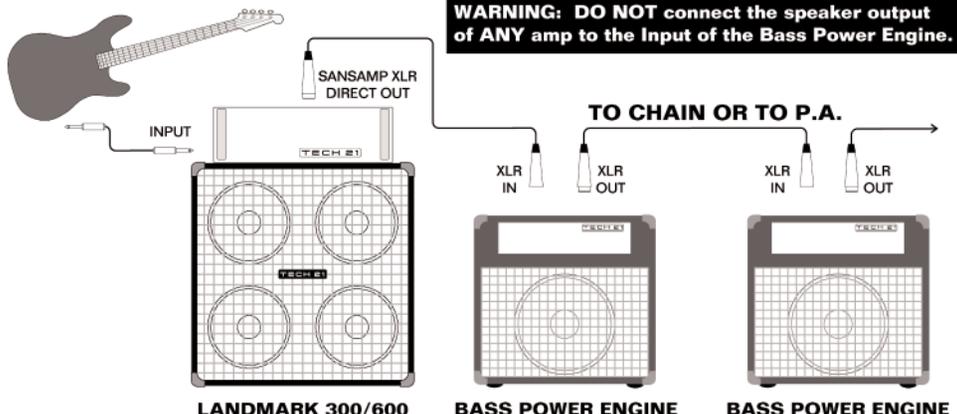
Note: With on-going product development and improvements, specifications and/or the cosmetic appearance of these units may change without prior notice.

<b>Model Number:</b>	<b>BPE60</b>
Input Impedance:	10k $\Omega$
Nominal Input Level:	-20dBu to +4dBu
Optimal Output Load:	8 $\Omega$
Power Output:	60W
Maximum Power Consumption:	120W
AC Input Power (factory set):	100V, 117V, 230V, 240V
Cycles:	50/60 Hz
	NOTE: Each unit is constructed for specific voltages. AC power cannot be switched.
Speaker:	Tech 21 Model #2112-B. Custom-designed 12" / 100W - 8 $\Omega$
Cabinet:	Constructed of plywood with custom chrome-plated steel grill.
Dimensions:	18.25"w x 18.75"h x 14.25"d
Weight:	36 lbs.

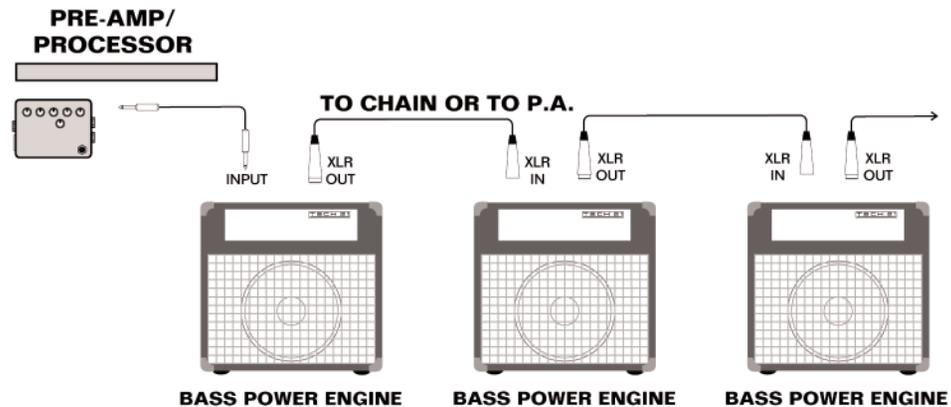
**Optional Accessory:**                   **Black vinyl cover** with silver embroidered logo

**Replacement parts** (i.e., knobs, grill panel, speaker, logo plate, handle, etc.) are available through your authorized dealer, distributor or directly from Tech 21.

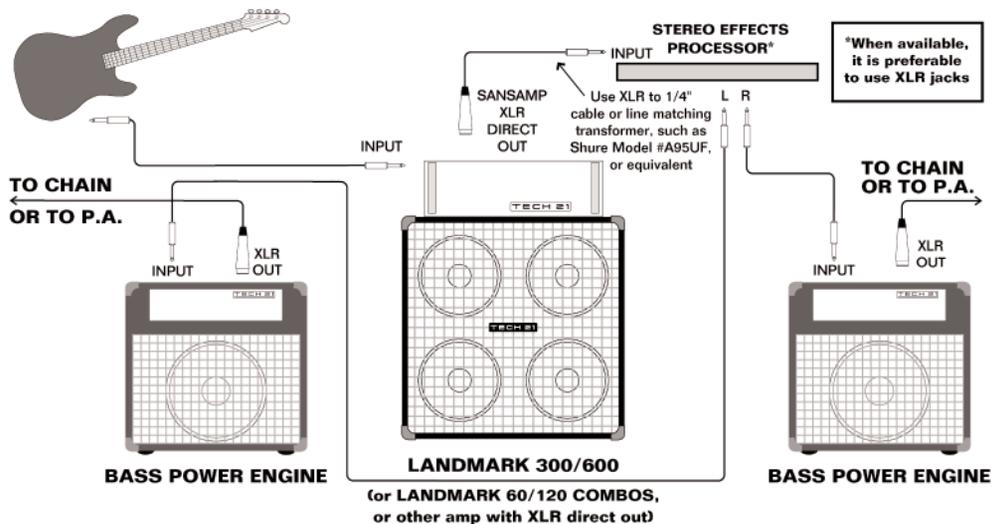
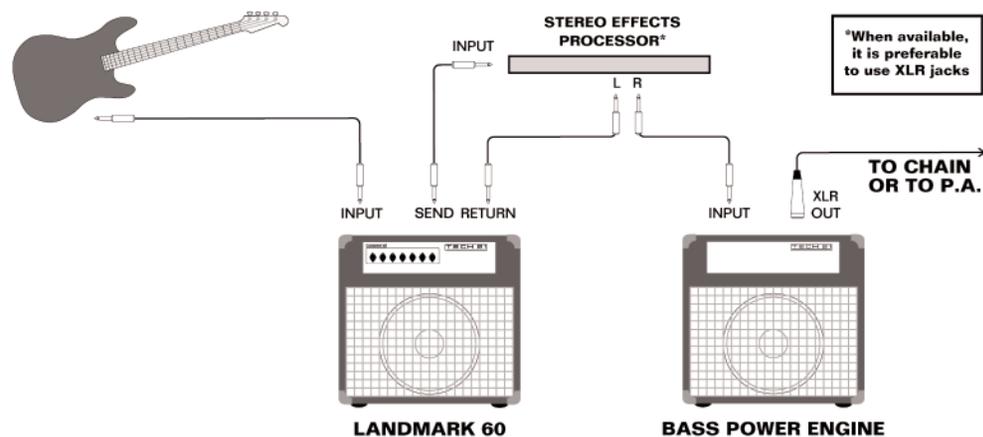
## Bass Power Engine Hook-Up Diagrams (MONO):



\*NOTE: If you are using an amp that does not have an XLR direct out, use the amp's Effect Loop Send or Pre-amp Out into the Input of the Bass Power Engine. You can then chain or go direct to the PA via the XLR Out of the Bass Power Engine.



## Bass Power Engine Hook-Up Diagrams (STEREO):



## With SansAmp Bass Driver DI (and amp, if desired)

