



PHIL JONES BASS



BASS ENGINE 17

OWNER'S MANUAL

Thank you for your purchase of the PJB BASS ENGINE 17.

Phil Jones Bass has a history of crafting bass amplifiers for the most discerning bassists. Phil Jones himself believed that the moment had arrived for a bass amp to faithfully deliver the genuine tone of a bass instrument while remaining within an affordable range. We delved into the most efficient methods to construct an amplifier without compromising on the paramount factor: TONE!

The one super high-efficiency and proprietary 7-inch speaker was designed by Phil Jones to get the most of the 70 watts (RMS) class D amplifier with linear Analog Pre-amp. This amazing woofer is complimented by our high energy 3-inch, high-frequency transducer. We have used this speaker in tens of thousands of our PA speakers and it is proven to be extremely reliable. The response of this speaker system is of the highest fidelity from 31Hz to 22KHz, which means it does not only sound great with bass but also with many other instruments, making it a very versatile amplifier.

The BASS ENGINE 17 stands as a singular channel bass amplifier boasting more than 70 watts RMS of output power. Additionally, it features the latest Qualcomm V5.1 (aptX HD) highest-quality Bluetooth codec, providing sound quality that favorably compares to that of CDs. Moreover, it can accept Drum Machines or any other stereo source through the L+R line-in sockets. The stereo headphone output supports private practice scenarios without disturbing others.

Through the utilization of an all-digital circuitry approach, the amplifier operates flawlessly in accordance with global AC voltage standards. We have spared no cost in terms of component quality, ensuring that the design centers around the essential needs of the majority of bass players. To ensure longevity, we have equipped this amplifier with a sturdy, kick-proof, acoustically transparent curved steel grille.

This amplifier integrates the identical level of high-quality components that define all PJB amplifiers. The BASS ENGINE 17 stands as a testament to our dedication to providing unparalleled sound quality and unmatched reliability at an unbeatable price point.

READ THIS FIRST

- **Before using the BASS ENGINE 17, please read ALL the instructions carefully.**
- Upon receiving the product, inspect it for any signs of physical damage that may have occurred during shipping. If you notice any damage, please contact your retailer immediately.
- Ensure that the amplifier is not installed in a confined or built-in space, such as a bookcase. The amplifier should be kept in an open area with good ventilation, and the ventilation openings should never be obstructed by items such as newspapers, tablecloths, or curtains.
- Warning: To avoid any potential hazards, use only attachments and accessories specified or provided by the manufacturer.
- Warning: To prevent the risk of fire or electric shock, keep the amplifier away from rain or moisture. The amplifier should not be exposed to dripping or splashing liquids, and no objects filled with liquids should be placed on top of it.
- When the amplifier is not in use or during transportation, take care of the power cord by tying it up with a cable tie. The power cord should be free from sharp edges that may cause abrasion. Before using it again, check that the power cord is not damaged. If any damage is found, replace it with a cord specified by the manufacturer or with the same specifications as the original one.

-  The marking "Correct Disposal of this product" indicates that this product should not be disposed of with other household waste throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, it should be recycled responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.
-  Warning: The apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.

If this is your first bass amplifier or beginner bassist, please read this.

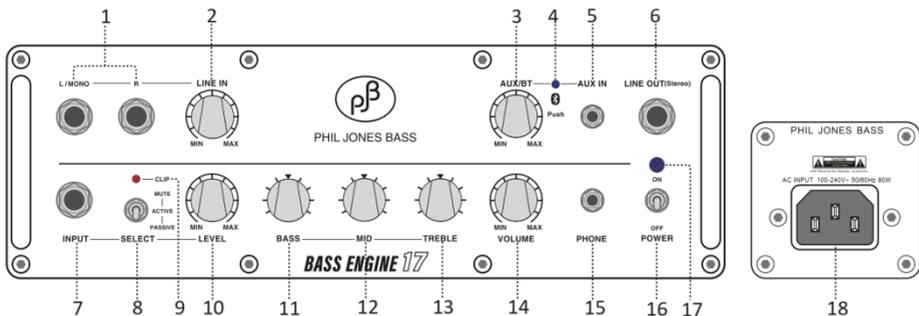
1. Read this Manual: Familiarize yourself with the user manual of the Bass Engine 17. It will provide valuable information about its features, controls, and proper usage.
2. Start with Low Volume: Begin with the volume at a low level before playing. Slowly increase it to your desired level to avoid sudden loud sounds.
3. Check Cables and Connections: Ensure all cables are securely connected to the appropriate inputs and outputs. Loose connections can lead to noise or no sound at all.
4. Set EQ Settings Carefully: Experiment with the equalization (EQ) controls to find the tone you like, but start with flat or neutral settings before making adjustments.
5. Use Headphones for practice : If possible, practice with headphones, especially if you're in a shared space. This allows you to practice without disturbing others.
6. Avoid Excessive Boosting of the EQ controls: While boosting certain frequencies can add character, avoid excessive boosting as it might result in an unnatural or unbalanced sound.
7. Bass Mid-Range and Treble Balance: Find a balance between bass, mid and treble frequencies. Too much of any can lead to a muddy or overly bright tone.
8. Watch for Overload Indicators: Keep an eye on overload indicators. If they light up, reduce the volume or adjust the input level to prevent distortion.
9. Experiment with Gain Levels: Adjust the gain control to set how much your amplifier amplifies your bass signal. A moderate gain level generally produces cleaner tones.
10. Be Mindful of Volume Levels: Playing at high volumes for extended periods can damage your hearing. Protect your ears by not playing too loudly for too long.
11. Keep Your Amp Ventilated: Amplifiers can generate heat. Ensure there's enough space around it for proper ventilation and cooling.
12. Use a Surge Protector: If possible, plug your amplifier into a surge protector to safeguard it from power fluctuations or electrical issues.
13. Practice Safe Transport: If you're moving your amplifier, ensure it's properly secured to prevent it from falling or getting damaged during transportation.
14. Regular Maintenance: Clean your amplifier's exterior, keep it free from dust, and check for any loose knobs or connections periodically.
15. Trust Your Ears: Ultimately, the best settings are the ones that sound good to you. Trust your ears and experiment to find the tone that suits your playing style.

OVERVIEW OF THE BASS ENGINE 17

AMPLIFIER FEATURES

1. 70 watts Digital Amp with analog linear control panel.
2. 1 x7 inch PJB Ferrite Speakers + 1 x PJB 3-inch Tweeter.
3. 1/4 input mono jack for guitar and bass.
4. Switchable high gain input OR low gain stage with mute function.
5. PJB precision 3-Band EQ.
6. L+R stereo Line in for electronic drum and others with Independent LEVEL control.
7. Stereo Aux input with Independent LEVEL control for D-box machine or iPod/ Smart phone players.
8. Bluetooth 5.1 with Qualcomm® aptX™ HD CODEC.
9. Line Out (Stereo)
10. Stereo headphone output
11. Worldwide AC voltage input (100~240V).

PANEL OVERVIEW



1. 1/4 Line In Jack

For connecting to your E-drum sound module or mixer master output. For sounds in Mono, connect the L/MONO only.

2. Line In Level Control

To achieve optimal sound quality, adjust the Line-in input level to match the amplifier's settings.

3. Auxiliary/Bluetooth level Control & Mode Select

Rotating the knob will either increase or reduce the input level for AUX and Bluetooth. Press the knob to switch to the AUX/BT input mode, and pushing and holding it for over 3 seconds will cancel the Bluetooth pairing.

4. Aux/BT Mode Indicator

Blue light on: Bluetooth.

Green light on: Aux input

Adjust the knob's rotation to either raise or lower the input level for AUX and Bluetooth.

Press the knob to transition into the AUX/BT input mode, and maintain pressure on it for more than 3 seconds to deactivate the Bluetooth pairing.

5. Auxiliary Input Jack (3.5mm stereo)

This is a stereo mini-jack capable of receiving signals from iPods, iPads, smartphones, or music players.

6. Line Out (Stereo)

It will output all signals from Aux, BT, and Input to other amplifiers.

7. Input Jack

This input has high impedance and is designed for both passive and active instruments.

8. Input Switch

MUTE: Engages the input stage mute. When switched on, the clip LED will illuminate in green.

ACTIVE: Provides a lower sensitivity input setting for guitars with onboard electronics.

PASSIVE: Offers higher sensitivity through a high impedance input, designed for passive instruments.

9. Clip Light

When the power amplifier is overloaded and causes distortion, the Clip light will illuminate in red. When the amplifier is muted, the LED will light up in green.

10. Input Level Control

The input level's signal magnitude can be influenced by various instruments, players, and playing styles. The input level can be adjusted to prevent the overload indicator from illuminating during intense playing, thereby optimizing the signal-to-noise ratio between the amplifier and the instrument. This adjustment ensures that you experience the amplifier's complete range of tone and power.

11. Bass EQ Control

For adjusting the lower frequencies of the bass instrument. It allows you to either boost or cut the bass frequencies, which are the lower tones in the sound spectrum. By manipulating the bass control, you can affect the richness and depth of the audio output.

12. Mid EQ Control

The mid-range frequencies encompass the range where many important elements of bass/guitars reside. The mid-range is where a lot of the clarity, definition, and presence in audio occur.

13. Treble EQ Control

If you cut (reduce) the treble on a bass guitar amplifier, you are decreasing the presence of high-frequency tones in the sound. This can result in a warmer and mellower tone. Cutting treble might be useful if your bass sound is too sharp or harsh, and you want to create a smoother and more rounded sound. If you boost (increase) the treble, you are emphasizing the high-frequency elements of the sound. This can make the bass sound more articulate, punchy, and cutting. Boosting treble can be useful when you want your bass to stand out in the mix, particularly if you're playing genres that require a more pronounced and aggressive bass tone.

14. Master Volume

This is the master volume control and it controls how much power you send to both of speakers and headphone. When setting up your tone or plugging in your instrument, you should keep this control at a low level. All instruments are different when it comes to how much output is from the pickups. Likewise for players, depending on how hard or so you play.

15. Headphone Jack

This jack accepts 3.5mm stereo headphone jacks.

16. Power Switch

The blue light will illuminate when the amplifier is operating.

Note 1: We advise you disconnect the power supply from AC source if you do not intend to use the BASS ENGINE 17 for long periods of time. Unplugging devices protects them from power surges caused by lightning or other electrical issues. Even if your devices are connected to surge protectors, unplugging provides an additional layer of protection.

Note 2: To prevent device malfunctions, set the VOLUME and LEVEL to their minimum setting. Gradually increasing the volume and level after plugging in external sources allows you to monitor for any issues like hums, buzzes, or unexpected noises. This approach helps protect both your amplifier and the connected equipment from potential damage

17. Power Indicator

When power is switched, on the light will turn blue.

NOTE: When power is on, the indicator will light up, if no signal come in the standby mode will activate after 30 minutes, the power indicator LED will light up with red. When a signal comes in from INPUT, LINE IN, BT or AUX socket, or long press the AUX/BT button, the amplifier will restart in about 2 seconds.

18. Ac Input Socket

This accepts grounded IEC cables and can operate on any AC voltage from 100- 240volts.

TRANSPORTING AND STORING THE BASS ENGINE 17

When transporting in a vehicle, it's advisable to utilize an external case or a heavy-duty cover to safeguard it from potential damage due to tipping over or other objects falling onto it.

When Storing:

- Keep in a dry location preferably at room temperature.
- Do not store in temperatures below -20 Degrees C or above 40 Degrees C.
- Do not allow it to get wet. If this occurs, never turn it on in this condition.
- Do not leave the BASSENGINE17 permanently connected to a power source.

SPECIFICATIONS

Amplifier

Amplifier Type: Full Digital with DSP

Power Output: 70 watts RMS (140W peak power)

Signal to Noise Ratio

≥85dB(A) (EQ off, Volume on Full)

Impedance

Instrument Input: ≥270KΩ / 22pF

Levels

Passive Input: 120mV-2 V

Active Input: 360mV-3V

Aux Input: 300mV (MAX)

Bluetooth Input: 300mFFS

EQ Center Frequencies

Bass Shelf 100Hz, +/- 15dB

Mid 1KHz Bandwidth 120Hz-10Kz, +/- 15dB

Treble Shelf 8KHz, +/- 15dB

Speaker

1 x7 inch PJB Ferrite Speaker.

1 x PJB ferrofluid cooled 3-inch Tweeter.

Speaker Frequency Response: 31 Hz-22 KHz

Dimensions (W×H×D): 289x289x248mm (11.4"x11.4"x9.8"inch)

Weight: 6.7Kg (14.8 lbs.).

Included Parts:

6 ft AC Power cord

Protective slip-on cover



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