

 **Phil Jones Bass**

**PJB D-600**





**OWNER'S MANUAL**

Thank you for purchasing the PJB D-600. A great deal of dedication and passion went into designing and building this no compromise, high performance compact amplifier. It was conceived to be a dedicated amplifier for the “connoisseur” bassist. Reading this manual will enable you to get the best performance from it so that you may enjoy many years of service.

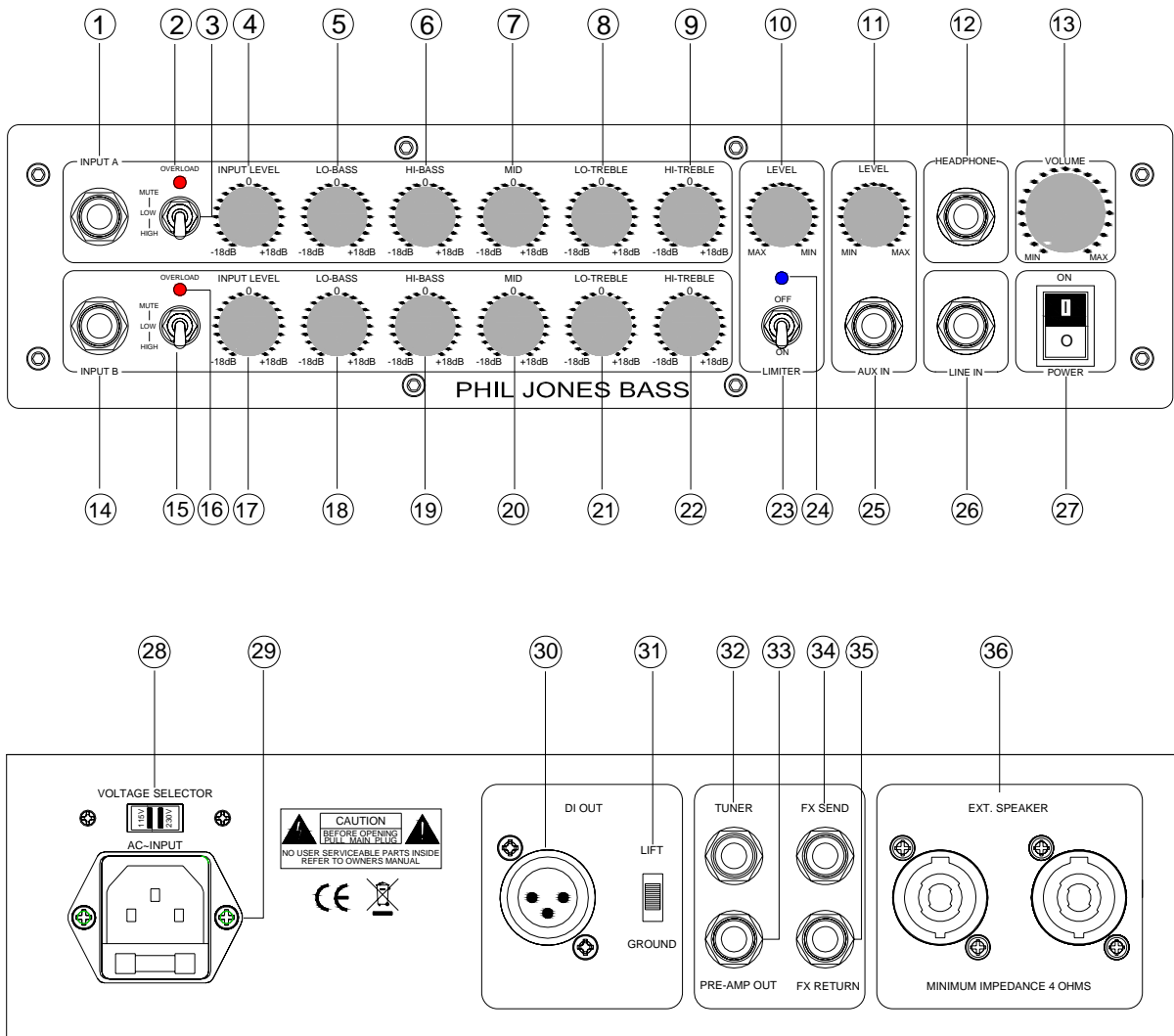
### **READ THIS FIRST**

- Before using the D-600 please read ALL the instructions.
- On receipt of product, check for any signs of physical damage arising from shipping. If any damage is visible contact your dealer.
- Keep all original packing.
- Do not use this amplifier in a way that would compromise its ventilation system. When operating, never cover the heat sink on rear panel.
- Do not locate this amplifier near any heat source.
- This amplifier must be connected only to a power source specified in this manual.
- For safety do not leave the amplifier plugged into a power source for long periods of time when not in use.
- Do not let any liquid or foreign objects fall into any openings on the amplifier.
- Never use this amplifier if it has:
  1. Suffered any physical damage.
  2. Been subjected to any liquids, rain or moisture.
  3. Damaged cables connected to it.

If any of the above occurs, the amplifier should be examined by qualified service personnel.

- Always operate this amplifier with the correctly rated fuse.
- Never use this amplifier without proper grounding.
- The mains plug is used as disconnect device, the disconnect device shall remain readily operable.
-  Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.
-  Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources.
- The apparatus shall not be exposed to dripping or splashing.

## FRONT PANEL AND BACK PANEL OVERVIEW



## FRONT AND BACK PANEL DESCRIPTION

### 1. INSTRUMENT INPUT JACK CHANNEL A

This is a standard ¼ inch mono jack socket. This is a high impedance input that can be used with Piezo pickups on double basses.

### 2. CLIP/ MUTE INDICATOR

When the amplifier output is clipping, the LED will light up with red. When muted, the LED will light up with green.

### **3. INPUT GAIN SWITCH CHANNEL A**

High: Higher sensitivity, high impedance input.

Low: Lower sensitivity input setting for guitars with onboard electronics.

Mute: mute the input stage, when switch on, the clip LED will light up with green.

### **4. INPUT LEVEL SENSITIVITY CHANNEL A**

### **5. LOW BASS EQ CONTROL.**

This will adjust the fundamental tones of E and A strings on 4 string basses and B, E & A on 5 string basses.

### **6. BASS EQ CONTROL.**

This will adjust the fundamental tones of D and G-strings on 4 & 5 string basses.

### **7. MID RANGE EQ CONTROL.**

### **8. LOW TREBLE EQ CONTROL.**

### **9. HIGH TREBLE (PRESCENCE) EQ CONTROL.**

### **10. COMPRESSOR THRESHOLD LEVEL CONTROL.**

This will vary the level the limiter threshold. The compression ratio is 3dB to 1. Adjust this to suit your playing style and output power of your instrument. The blue LED will light up when the signal is being compressed. This will vary on how hard the instrument is played and how the threshold is adjusted.

### **11. AUX INPUT VOLUME CONTROL**

Use to control the level of backing/rhythm track.

### **12. HEADPHONE OUTPUT JACK**

This jack accepts ¼ inch stereo headphone jacks.

### **13. MASTER VOUME CONTROL.**

This is the master volume control and it controls how much power you send to your speakers as well as the line out socket on the back of the amp. 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 soft you play.

### **14. INSTRUMENT INPUT JACK CHANNEL B**

This is a standard ¼ inch mono jack socket. This is a high impedance input that can be used with Piezo pickups on double basses.

### **15. CLIP/ MUTE INDICATOR**

When the amplifier output is clipping, the LED will light up with red. When muted, the LED will light up with green.

#### **16. INPUT GAIN SWITCH CHANNEL A**

High: Higher sensitivity, high impedance input.

Low: Lower sensitivity input setting for guitars with onboard electronics.

Mute: mute the input stage, when switch on, the clip LED will light up with green.

#### **17. INPUT LEVEL SENSITIVITY CHANNEL B**

#### **18. LOW BASS EQ CONTROL.**

This will adjust the fundamental tones of E and A strings on 4 string basses and B, E & A on 5 string basses.

#### **19. BASS EQ CONTROL.**

This will adjust the fundamental tones of D and G-strings on 4 & 5 string basses.

#### **20. MID RANGE EQ CONTROL.**

#### **21. LOW TREBLE EQ CONTROL.**

#### **22. HIGH TREBLE (PRESENCE) EQ CONTROL.**

#### **23. LIMITER IN/OUT SWITCH.**

Sends signal through limiter or bypass.

#### **24. COMPRESSOR INDICATOR.**

This blue L.E.D (Light Emitting Diode) will light up when the signal is being compressed. This will vary on how hard the instrument is played and how the threshold is adjusted.

#### **25. AUX INPUT JACK**

Stereo input for Drum machine or I-pod/MP3 player.

#### **26. LINE INPUT.**

Input matched to accept high-level outputs from other bass/guitar pre-amps. This input is a direct feed to the power amp and does not pass through limiter or EQ sections.

#### **27. POWER ON/OFF SWITCH.**

This switches the main power on and off in the amplifier. When you turn on the power, it will have about 2 seconds delay to protect the speaker.

Do not leave the amplifier plugged into a power source for long periods of time when not in use.

#### **28. AC INPUT -VOLTAGE SELECTOR.**

Switches the amplifier to run on either 110-115volt or 220-240volt AC power. **Never try to run the amplifier on a 220-240volt supply when switched to 110-115volt. This can possibly cause major damage to the amplifier.**

#### **29. AC INPUT SOCKET & FUSE.**

Connects the amplifier to AC power supply. Always use a grounded plug and make sure

the AC cable is more than 3A rating at 250-volt AC. If you require a longer AC power cord, we recommend the PJB heavy-duty 20 foot power cords. These are available as an accessory. If fuse needs replacing, use a slow blow  $\frac{3}{4}$  inch fuse.

**30. BALANCED LINE OUT.**

This is an ultra-low impedance (200 $\Omega$ ) balanced line out for use with recording or PA mixing consoles. This output is not controlled by the volume control. Changing the level on your instrument will however, vary the DI output.

**31. GROUND LIFT SWITCH.**

This allows the grounding of balanced out socket to be disconnected. This is useful if you are experiencing hum caused by grounding loops/problems.

**32. TUNER OUT**

Connect to instrument tuner. This output can also be used as an additional line out.

**33. PRE-AMP OUT.**

Can be used for driving a second amplifier.

**34. FX SEND SOCKET.**

Connect the FX send to auxiliary FX unit input.

**35. FX RETURN SOCKET HIGH.**

Connect the FX Return to auxiliary FX unit output.

**36. LOUDSPEAKER OUTPUTS (NEUTRIK SPEAKON CONNECTORS).**

The D-600 amplifier will work on any load from 16 $\Omega$  down to 2 $\Omega$ , which is the safe maximum load for this amplifier. The 'Speakon' sockets are in parallel so connecting two 8 $\Omega$  speakers will result in a 4 $\Omega$  total load. We recommend that you use PJB high current speaker cables: which are dedicated high-current, low-resistance cables. Using inferior cables will greatly impair the performance of your system.

Just to avoid any confusion, a speaker that has a low impedance has a greater load on the amplifier. So a maximum load refers to a minimum speaker impedance as more current is flowing through the amplifier's output stage, speaker cables and cabinets.

## OPERATION & POSITIONING

**TURN THE VOLUME DOWN** on the D-600 before plugging in your instrument.

Connect the speaker or speakers to the D-600. For best results with this amplifier you should use PJB loudspeaker cabinets and PJB cables.

**ALWAYS USE A HIGH QUALITY GROUNDED AC POWER CABLE. NEVER USE THIS AMPLIFIER WITH THE GROUND CONNECTION REMOVED. We recommend you use PJB cables for speaker connections as they have virtually no loss so there is maximum transfer of power from amplifier to speaker.**

### **Setting Up the Limiter**

Although a limiter is not essential to bass amplification, it can be a useful tool in smoothing out the character of your instrument or playing style. The D-600 limiter has a preset compression ratio of 3 to 1. For each additional increase of 3dB above the set threshold, the increase in level is actually 1dB. So the dynamic range of your instrument is reduced.

First set up the limiter by having the compression control (10) set fully clockwise. Now switch on the limiter (23). Start playing and turn control (10) counter-clockwise. You will see the blue light start to come on and that is the indication that the limiter is now working. Set this control to suit your taste.

## TRANSPORTING AND STORING THE D-600

When transporting or storing the D-600, it is recommended that you always use the gig bag provided. That will ensure that your amp has the best protection from dust and will stay looking like new.

### **When Storing:**

- Keep in a dry location preferably at room temperature in the gig bag.
- 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 D-600 permanently connected to a power source.

## **SPECIFICATIONS**

### **Amplifier**

PJB 600watt, D class amplifier with digital switch mode power supply.

### **Frequency Response**

30Hz -25KHz

### **Signal to Noise Ratio**

Better than 90 dB (EQ off, Volume on Full.)

### **Impedance**

High Input:  $>4M\Omega/22pF$

Low Input:  $>100K\Omega/22pF$

Line Input:  $>75K\Omega$

Pre Amp Line Out:  $<2K\Omega$

Bal. Out:  $<200\Omega$

### **Levels**

High Input: 10mV-2.5V

Low Input: 20mV-5V

Pre Amp Out: 1.2V

FX send: 1V

Bal. Line Out: Typical 500mV

### **Compressor / Limiter**

Gain: 0dB

Compression Ratio: 3dB: 1dB

### **EQ CENTER FREQUENCIES**

50Hz, 160Hz, 630Hz, 2.5KHz, 12KHz at +/- 18dB

### **Included Parts**

6 ft AC Power Cord.

Padded gig bag with shoulder strap.



## SERVICE/WARRANTY INFORMATION

### IN USA

**The D-600 has a limited warranty period of 2 years, starting from the date of purchase. The buyer must complete and return the enclosed warranty card within 14 days of purchase.**

### **In other countries**

**Please contact the local distributor as other warrantee terms may apply.**

This warranty covers defect in materials or workmanship that occurs in normal use. Within warranty period PJB will repair or replace the defect unit free of labor and parts charge. It is the buyer's responsibility to use the unit strictly according to instructions written in this manual and amplifier manual.

This warranty is not transferable; it is provided to original owner only. Damage/defects caused by the following conditions are not covered by this warranty:

- Improper handling, neglect or failure to operate the unit in compliance with the instructions given in user manual;
- Connection or operation of the speakers in any way that does not comply with the technical or safety regulations applicable in the country where the product is used;
- Repairs or modifications by anyone other than authorized PJB service agent;
- Damages/defects caused by force majeure or any other condition that is beyond the control of PJB.

Should you need any warranty service, please bring the **D-600** back to the dealer from whom you purchased, along with your sales receipt. Depending on the complexity of the repair work, your dealer may return the defect unit to PJB service center for repair or replacement.

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