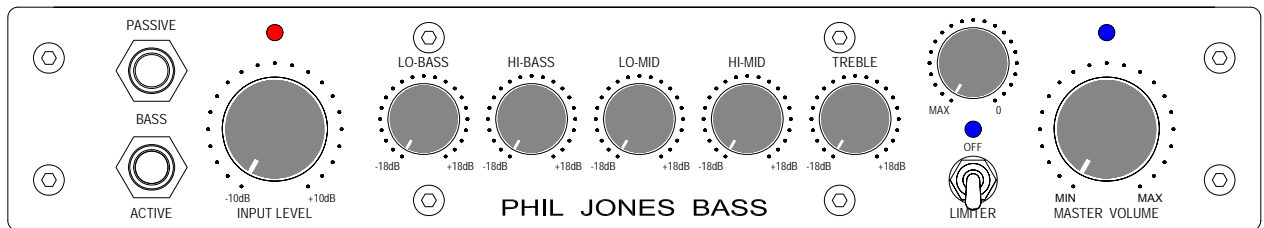




## PJB D-200



## OWNER'S MANUAL

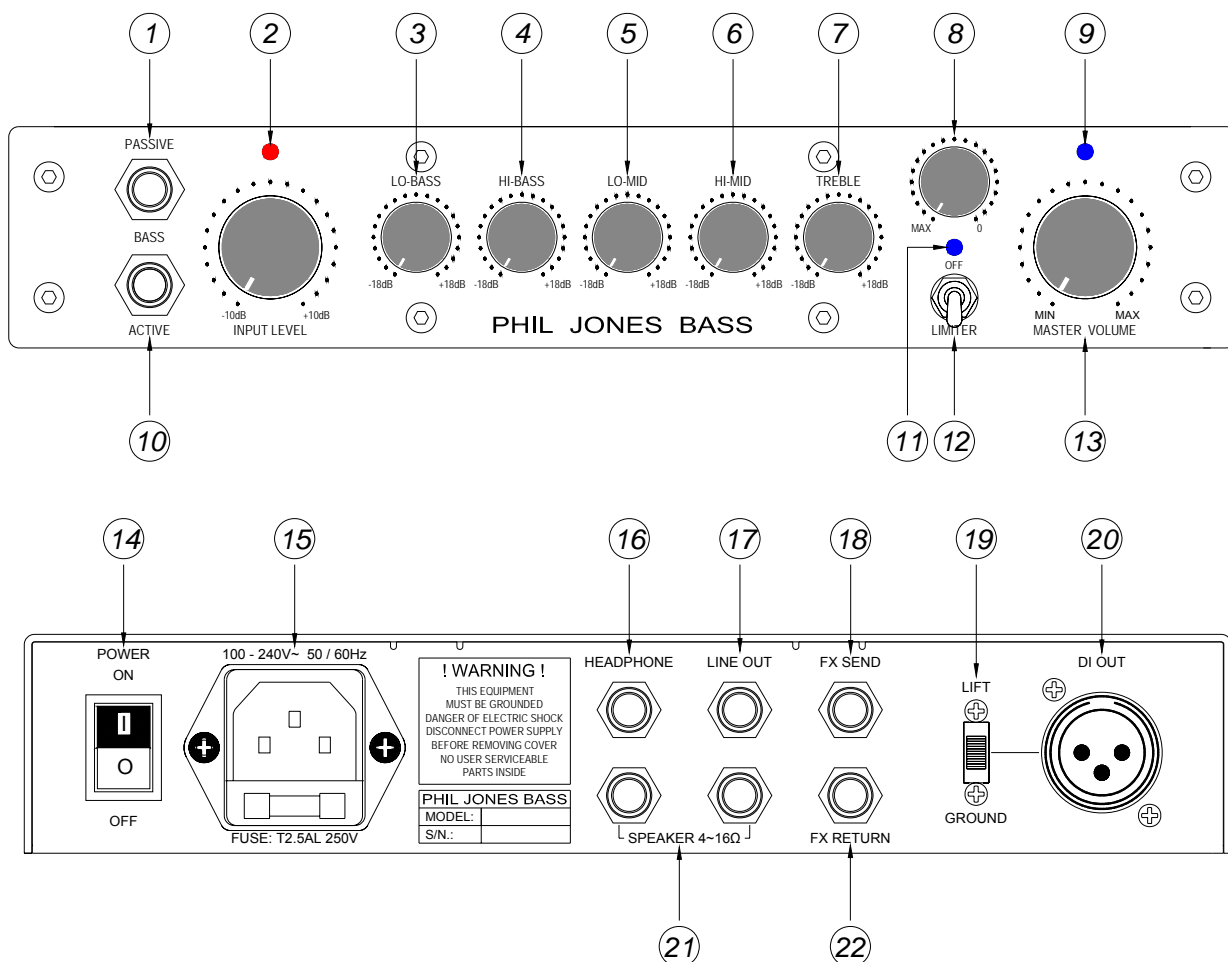
**Thank you for purchasing the PJB D-200. A great deal of dedication and passion went into designing and building this no compromise, high performance compact amplifier. It was conceived to be a dedicated amplifier for the “connoisseur” bassist. Reading this manual will enable you to get the best performance from it so that you may enjoy many years of service.**

### **READ THIS FIRST**

- **Before using the D-200 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.**
- **Never use this product in the vicinity of water. If the D-200 were to get wet, it could kill you by electrocution.**
- **Do not use this amplifier in a way that would compromise its ventilation system.**
- **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.**

## FRONT PANEL AND BACK PANEL OVERVIEW



## FRONT AND BACK PANEL DESCRIPTION

### 1. PASSIVE BASS INSTRUMENT INPUT JACK.

Higher sensitivity, high impedance input (220mV/4.7MΩ). For bass instruments that do not have active electronics, suited for older 'vintage' basses. This setting is precisely matched to high impedance pickups enabling them to faithfully reproduce the true frequency and dynamic range of the instrument. This is a standard ¼ inch mono jack socket.

For the best possible sound we recommend you use the PJB BI-12 instrument cable as it has very low self-capacitance and absolute shielding resulting in greater transparency of sound and less noise.

### 2. INPUT LEVEL Controls AND CLIP INDICATOR.

This is a fine-tuning adjustment (+/- 10dB) to get the precise match between your instrument and the D-200. When the CLIP LED is continuously lighting up, reduce the level on the input level control.

### **3. 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.

### **4. BASS EQ CONTROL.**

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

### **5. MID RANGE EQ CONTROL.**

### **6. LOW TREBLE EQ CONTROL.**

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

### **8. 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.

### **9. POWER ON INDICATOR.**

### **10. ACTIVE BASS INSTRUMENT INPUT JACK.**

ACTIVE- Lower sensitivity input setting (700mV) for basses with onboard electronics. Input matched for low signal to noise ratio and optimum transfer of electrical signal from modern high-end basses.

### **11. COMPRESSOR INDICATOR.**

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

Sends signal through limiter or bypass.

### **13. MASTER VOLUME 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. 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.

### **15. 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 rated at 2.5 amps.

#### **16. HEADPHONE SOCKET (STEREO PHONES).**

This jack accepts  $\frac{1}{4}$  inch stereo headphone jacks. *When a headphone is connected to the jack, the speakers will be disconnected and therefore no sound from them.*

#### **17. LINE OUT.**

Can be used for driving a second amplifier.

#### **18. FX SEND SOCKET.**

Connect the FX send to auxiliary FX unit input.

#### **19. 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.

#### **20. 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.

#### **21. LOUDSPEAKER OUTPUT.**

The D-200 amplifier will work on any load from  $16\Omega$  down to  $4\Omega$ , which is the safe maximum load for this amplifier. The jack 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.

#### **22. FX RETURN SOCKET HIGH.**

Connect the FX Return to auxiliary FX unit output.

## OPERATION & POSITIONING

**TURN THE VOLUME DOWN** on the D-200 before plugging in your instrument.

Connect the speaker or speakers to the D-200. 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-200 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 (8) set fully clockwise. Now switch on the limiter (12). Start playing and turn control (8) 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-200

When transporting or storing the D200, it is recommended that you always use the gig bag provided. That will ensure that you 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-200 permanently connected to a power source.

## **SPECIFICATIONS**

### **Amplifier**

PJB 150watt, D class amplifier with digital switch mode power supply.

### **Frequency Response**

Passive and Active input: 40Hz -20KHz

Low Cut Filter: 24dB/Octave at 40Hz.

### **Maximum Output Power**

150 watts RMS

### **Signal to Noise Ratio**

Better than 96 dB (EQ off, Volume on Full.)

### **Impedance**

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

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

Line Input: >75K $\Omega$

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

Bal. Out: <200 $\Omega$

### **Levels**

Passive Input: 10mV-2.5V

Active Input: 20mV-5V

Pre Amp Out: 1.2V

FX send: 1V

Bal. Line Out: Typical 600mV

### **Compressor / Limiter**

Gain: 0dB

Compression Ratio: 3dB: 1dB

### **EQ CENTER FREQUENCIES**

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

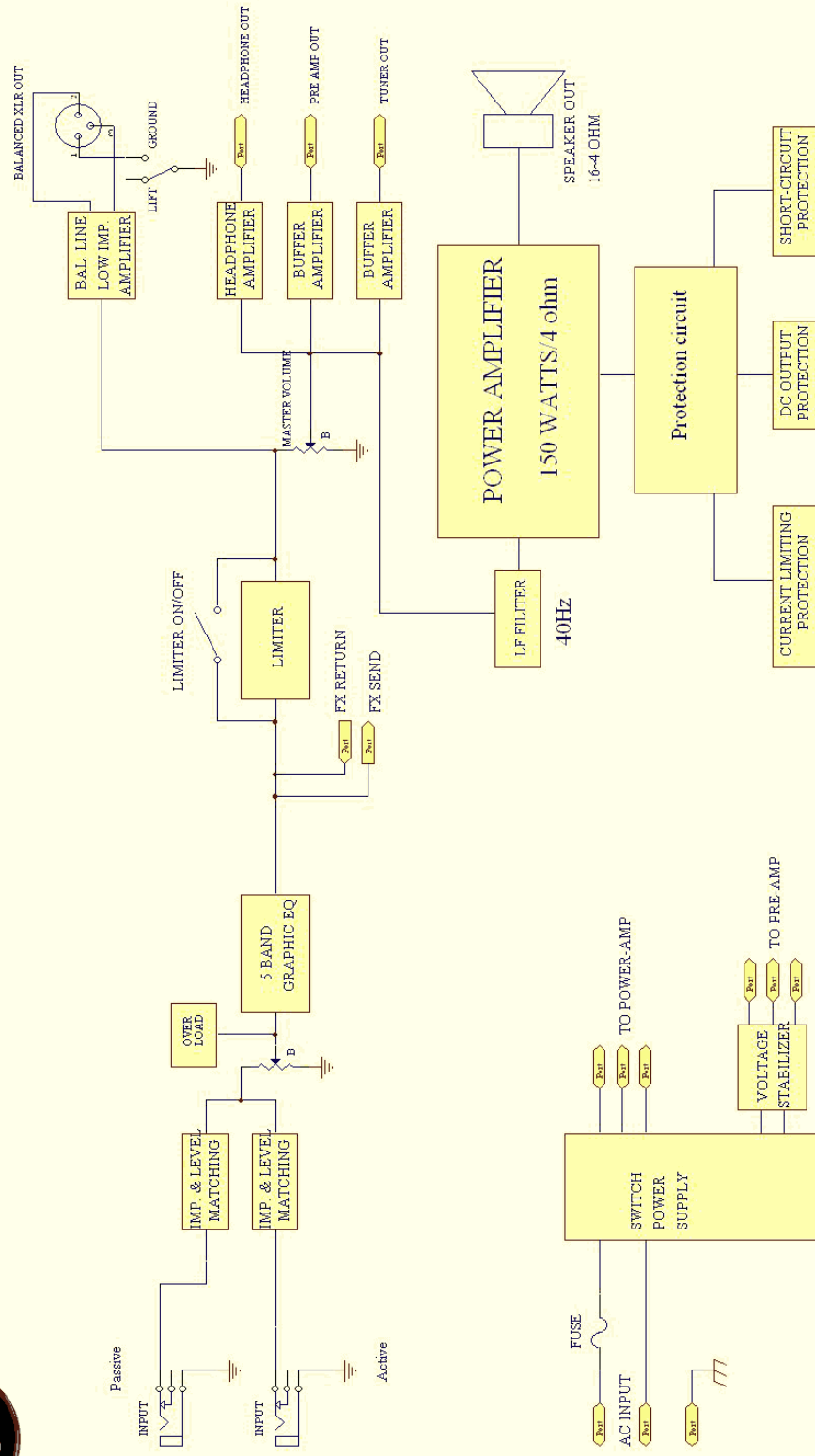
### **Included Parts**

12 ft AC Power Cord.

Padded gig bag with shoulder strap.



## PJB D-200 SIMPLIFIED BLOCK SCHEMATIC





## SERVICE/WARRANTY INFORMATION

### IN USA

**The D-200 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-200** 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.

### **Phil Jones Bass American Acoustic Development LLC**

8559 Page Avenue  
St. Louis, MO 63114 USA  
Phone: 314 814 3383  
Fax: 636 536 1338

[www.philjonesbass.com](http://www.philjonesbass.com)

[support@philjonesbass.com](mailto:support@philjonesbass.com)

Phil Jones Bass is a division of American Acoustic Development LLC.

[www.aadsound.com](http://www.aadsound.com)