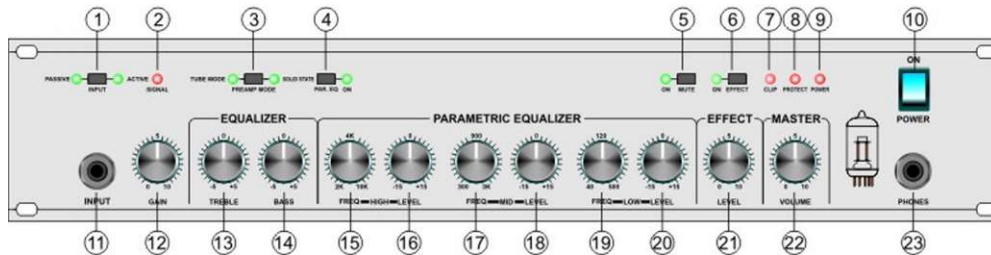


**BASS HEAD400**  
**BASS HEAD600**

*Professional*  
*Bass Amplifier*

**owner's manual**



## FRONT PANEL FEATURES

1. **INPUT TYPE selector:** This Selector is used to adapt the input stage of the Unit to the correct sensitivity and impedance for the instrument attached to the input. In the 'out' position the input is adapted to passive instruments, while in the 'in' position the input is adapted to instruments with internal, active preamplification. (If the bass attached to the Unit has internal batteries, the 'in' position would normally be selected).
2. **SIGNAL indicator:** This LED lights to indicate the presence and relative level of any signal at the input.
3. **PREAMP TYPE selector:** This selector switches between the valve and solid state input gain stages. In the 'out' position, the Solid State preamp stage is used; this preamplifier offers a greater high and low frequency response, and a clean, tight sound for slap technique and modern tone. In the 'in' position, the valve preamp stage is selected; this preamp offers a warmer, more classic sound with a slight breakup at high gain settings, useful for rock playing or close-to-the-bridge pizzicato techniques.
4. **PARAMETRIC EQ selector:** This selector inserts and removes the Parametric EQ from the signal path.
5. **OUTPUT MUTE:** Pushing this selector to the 'in' position mutes the output stage of the amplifier, but continues to route the signal to the TUNER SEND output. This permits the user to tune this instrument silently.
6. **EFFECT selector:** This selector permits the user to insert or remove the effect loop from the signal path.
7. **CLIP status indicator:** This LED lights to indicate that the signal at the input of the power amplifier stage is saturating.
8. **PROTECT status indicator:** This LED lights to indicate that the signal is being cut to the output stage automatically. The amplifier reamins in PROTECT mode for a few seconds at power-up in order to protect speakers from abrupt spikes. In any other situation, this LED indicates that the amplifier is shutting itself off for reasons of overheating or over current in the output stage and will remain in protection until conditions in the amplifier return within normal parameters.
9. **POWER status indicator:** This LED lights to indicate that the Unit's main switch is on and that the amplifier is powered up.
10. **POWER switch:** This turns the Unit on and off.

## PREAMPLIFIER SECTION

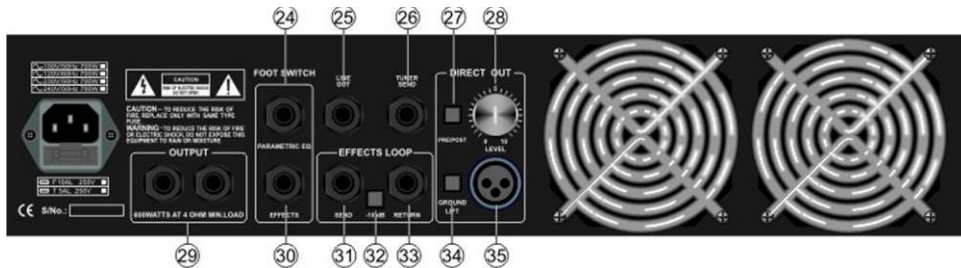
11. **INPUT:** This 1/4" mono jack is the primary instrument input of the Unit.
12. **Gain control:** This sets the gain applied to the signal at the input by the preamplifier stage selected by the PREAMP selector.
13. **TREBLE tone control:** This permits the user to apply up to 5 dB of boost or cut to the high-frequency content of the signal at the instrument input.
14. **BASS tone control:** This permits the user to apply up to 5 dB of boost or cut to the low-frequency content of the signal at the instrument input.

## PARAMETRIC EQUALIZER SECTION

15. **HIGH FREQ control:** This permits the user to adjust the center frequency of intervention of the High Frequency Level control from 2kHz to 10kHz or any frequency between. The High Frequency equalizer is a 'Peaking' type, and will apply more cut or boost to frequencies relative to how close they are to the center frequency selected by this control.
16. **HIGH LEVEL control:** This permits the user to apply up to 15dB of boost or cut at the center frequency set by the HIGH FREQ control.
17. **MID FREQ control:** This permits the user to adjust the center frequency of intervention of the Mid Frequency level control from 300Hz to 3kHz or any frequency between. The High Frequency equalizer is a 'Peaking' type, and will apply more cut or boost to frequencies relative to how close they are to the center frequency selected by this control.
18. **MID LEVEL control:** This permits the user to apply up to 15dB of boost or cut at the center frequency set by the MID FREQ control.
19. **LOW FREQ control:** This permits the user to adjust the center frequency of intervention of the Low Frequency Level control from 40Hz to 500Hz or any frequency between. The Low Frequency equalizer is a 'Peaking' type, and will apply more cut or boost to frequencies relative to how close they are to the center frequency selected by this control.
20. **LOW LEVEL control:** This permits the user to apply up to 15dB of boost or cut at the center frequency set by the LOW FREQ control.

## MASTER SECTION

21. **EFFECT LEVEL control:** This sets the mix level of the signal from the EFFECT LOOP RETURN in the MASTER signal.
22. **MASTER VOLUME control:** This sets the over-all output volume of the Unit.
23. **PHONES output:** This is for the output to any headphone with at least 8 impedance. The signal is sent to both sides of stereo headphones.



## REAR PANEL FEATURES

24. **PARAMETRIC EQ FOOTSWITCH:** This is for the connection of a footswitch with a single, mono 1/4" jack connector. Such a footswitch permits the remote selection or deselection of the Parametric EQ.
25. **LINE OUT:** This unbalanced 1/4" jack output offers a 1V RMS Line Level signal from the master section for routing the signal from the Unit to an external device such as a secondary amplifier, or a recorder.
26. **TUNER SEND:** This is a dedicated output of the signal from the primary instrument input for routing to an outboard tuner.
27. **DIRECT OUT PRE/POST selector:** This selector permits the user to choose between the unaltered input signal and the equalized preamp signal for routing to the DIRECT OUT balanced XLR output.
28. **DIRECT OUT LEVEL control:** This sets the level of the signal at the DIRECT OUT balanced XLR output.
29. **PARALLEL SPEAKER OUTPUTS:** These are parallel speaker outputs for the connection of speaker cabinets with a minimum total impedance of 4 Ω; IE: one 4 ohm cabinet connected to one of the outputs; 2 x 8 ohm cabinets connected separately to the two outputs; 2 x 8 ohm cabinets connection in parallel and then to one of the outputs, etc
30. **EFFECTS FOOTSWITCH:** This is for the connection of a footswitch with a single, mono 1/4" jack connector. Such a footswitch permits the remote insertion or disinsertion of the EFFECT LOOP signal from the MASTER output.
31. **EFFECT LOOP SEND:** This furnishes a signal from the selected preamplifier for routing to the input of an external effect unit or the first effect in a chain of effects.
32. **EFFECT LOOP-10dB selector:** This selector in the 'in' position reduces the level of the signal at the EFFECT SEND output by 10dB in order to avoid saturating the input of the attached effect device when the preamplifier is in a high gain setting.
33. **EFFECT LOOP RETURN:** This input is used to reinsert the signal from external effects; it is to be connected to the output of the effect or the last effect in a chain of effects.
34. **GROUND LIFT:** This selector can be used to detach the audio reference ground from the DIRECT OUT output, in order to reduce the chance of ground-loop hum due to differences in ground reference between the amplifier and equipment connected to this output.
35. **DIRECT OUT output:** This balanced XLR connector can be used to route a balanced, line level signal to external devices with balanced input connections, such as sound reinforcement mixers or recording devices.

## SPECIFICATIONS

**Output Power:** 400 Watts RMS @ 4Ω (BP400)  
600 Watts RMS @ 4Ω1 (BP600)

**Tubes:** 1 x 12 AX7 (ECC83)  
30Hz - 10kHz

**Frequency Response:** >80dB

**S/N Ratio:** PASSIVE — 3.9M Π

**Input Impedance:** ACTIVE — 100K Π

**Maximum Input Level:** PASSIVE — 24dB

ACTIVE — 18dB

**Nominal Input Level:** PASSIVE — 30dB

ACTIVE — 24dB

### BALANCED OUT

**Nominal Output Level:** - 12dB

**Maximum Output Level:** - 6dB

### LINE OUT

**Nominal Output Level:** 0dB/1V RMS

### EFFECT SEND

- 8dB/- 18dB

**Maximum Output Level:** 0dB

**Load Impedance:** > 1 KΩ

### EFFECT RETURN

**Optimum Input Level:** -10dB to 0dB

**Impedance:** 47KΩ2

**Headphone Output:** 200mW @ 8\*1

## EQUALIZATION PREAMP

**BASS TONE:** +/- 5dB @ 100 Hz Shelving

**TREBLE TONE:** +/- 5dB @ 1 kHz Shelving

### PARAMETRIC

**LOW:** +/- 15dB

**LOW FREQ:** 40Hz - 500Hz

**MID:** +/- 15dB

**MID FREQ:** 300Hz - 3kHz

**HIGH:** +/- 15dB

**HIGH FREQ:** 2kHz - 10kHz

**Power Supply:** -230VAC / 50Hz

**Dimensions:** 520 x 140 x 420mm

**Weight:** 20Kg

## IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Read all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a damp cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not defeat the safety purpose of the polarized-type plug. A grounding type plug has two blades and a third grounding prong. The third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
9. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
10. Protect the power cord from being walked on or pinched particularly at the plug, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug, when liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing or objects filled with liquids, such as vases. The unit shall not be installed in a cabinet or where the power switch is difficult to access.