

# HIWATT

## Welcome to Hiwatt.

Proudly producing generations of Iconic British Tone for the World's best artists. Legendary headroom, clean and clear sounds, great for pedals and studio work, unbeatable live onstage.

### BULLDOG 440/770 HEAD



### AMPLIFIER FEATURES\*

- Hiwatt's Classic Solid State Bass Amplifier with Historic Analog Preamp.
- Hiwatt's original Hi-Headroom. Stage-ready, durable, road-tested performance.
- Class D output section for maximum efficiency and plenty of clean Hiwatt power.
- 2-band parametric EQ plus a 7-band Graphic EQ to shape your tone for any room or situation.
- Built in limiter with on/off toggle.
- A variety of output options for versatility in the studio and on the stage.
- Auxiliary in is great for small gigs and practice.





## IMPORTANT SAFETY INSTRUCTIONS



### Please read these instructions carefully before switching your amplifier on.

- Please ensure that the voltage selector/ indicator and fuses match the supply voltage of the country in which the amplifier is being used.
- Do not switch the amplifier on without the loudspeaker connected. It is important that the amplifier and speaker are matched at the correct impedance. Failure to do so can result in damage to the amplifier or speaker.
- Never attempt to by-pass fuses or fit ones of incorrect value.
- Never use an amplifier in wet or damp conditions.
- Protect the power cord from being walked on or pinched. Do not modify.
- All servicing should be carried out by a professionally qualified service technician.
- Always ensure free movement of air around the amplifier to prevent overheating.
- Do not attempt to remove the amplifier chassis, there are no user serviceable parts inside.
- Always use the supplied mains lead provided with your amplifier. If a replacement is needed, please contact your Hiwatt Dealer.
- Always unplug this amplifier during lightning storms or when unused for prolonged periods of time.

**WARNING – if used improperly or without proper safeguards this equipment can cause hearing damage or loss of hearing.**

**Servicing is required** when the apparatus has been damaged in any way, such as when the power supply or plug is damaged, 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.



**Hiwatt.co.uk/downloads**  
IMPORTANT SAFETY INSTRUCTIONS  
IMPORTANTI ISTRUZIONI DI SICUREZZA  
CONSIGNES DE SÉCURITÉ IMPORTANTES

**Follow all instructions and warnings**

Please keep instructions in a safe place

Register product online: **Hiwatt.co.uk**

## PROCEED WITH CAUTION - EXTREME POWER ON TAP

Our Class D Hybrid Bulldog bass amps have plenty of extra bite and are capable of operating at extreme volume levels.

Hiwatt has balanced and rated the Bulldog 440 and Bulldog 770 at 8 ohms, which we consider to be the 'sweet spot' for Class D bass amplification.

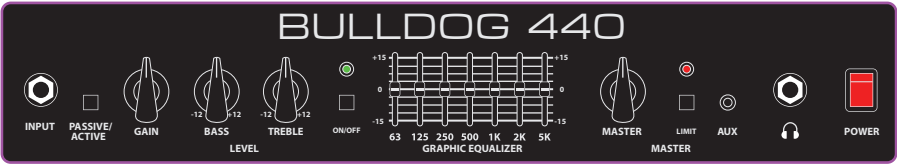
Due to the linear nature of Class D, running these amplifiers into a 4 ohm load will result in double the volume and wattage output from the amplifier. It is important to always ensure that your cabinet is sufficiently rated to handle the power of the amplifier as even a small change in playing style or gain staging can result in a large increase of power output into the speakers.

Speakers are typically tested at 2/3 of their wattage rating and are designed to perform best between 2/3 to 3/4 of their rated power. With this in mind, we recommend a minimum wattage for each amp on Page 5 of this user manual.



@HiwattOfficial

## FRONT PANEL FEATURES



**Input** - Plug your guitar in here with a 1/4" instrument cable.

**Passive/Active** - Adjusts the level of input applied to the preamp for passive or active pickups.

**Gain** - This controls the level of Gain applied to the input.

**Bass** - Adjusts the level of low frequency.

**Treble** - adjusts the level of high frequency.

**EQ On/Off** - Toggles the Graphic Equalizer on and off as indicated by the green LED.

**Graphic Equalizer** - This 7-band EQ allows you to cut or boost select frequencies by 15db.

**Master** - Controls the volume of the amplifier - always set the control counter clockwise when turning the amplifier on or off.

**Limit Toggle** - Switches the limiter on/off as indicated by the red LED.

**Aux** - Plug in an external audio device here with a 3.5mm jack.

**Headphone Out** - Plug in headphones with a 1/4" jack for quiet practice sessions.

**Power** - Turns the amplifier's power on and off.

## REAR PANEL FEATURES



**Mains Input** - Connect with correct power cable.

**Voltage Selector** - For setting the amps voltage based on the correct voltage for your country.

**Line Output** - Connects to a unit with a line level input.

**Balanced Out** - Male XLR output. Perfect for direct recording or live performances.

**Ground Lift** - Lifts the ground of the Balanced Out to cancel out potential ground hum.

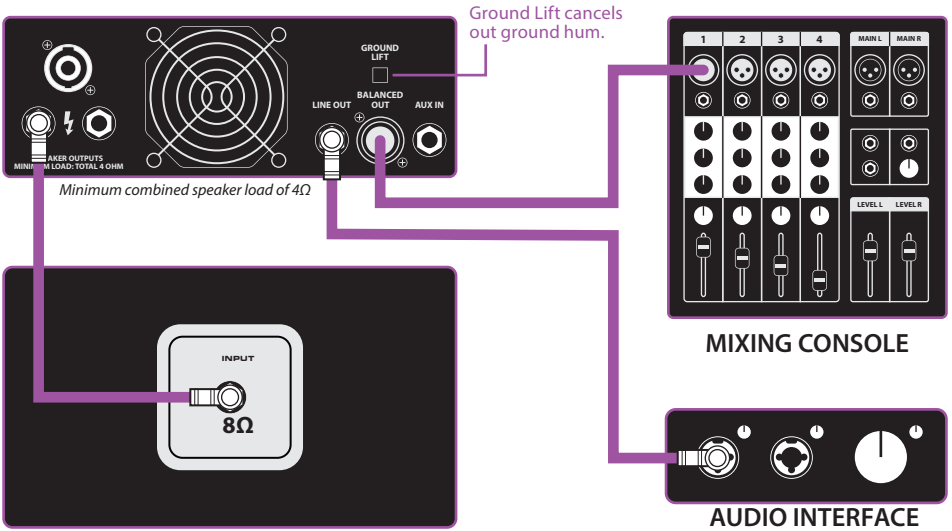
**Aux** - Plug in an external audio device here with a 1/4" jack.

**Speaker Outputs** - Two 1/4" outs in parallel and an additional Speakon out.

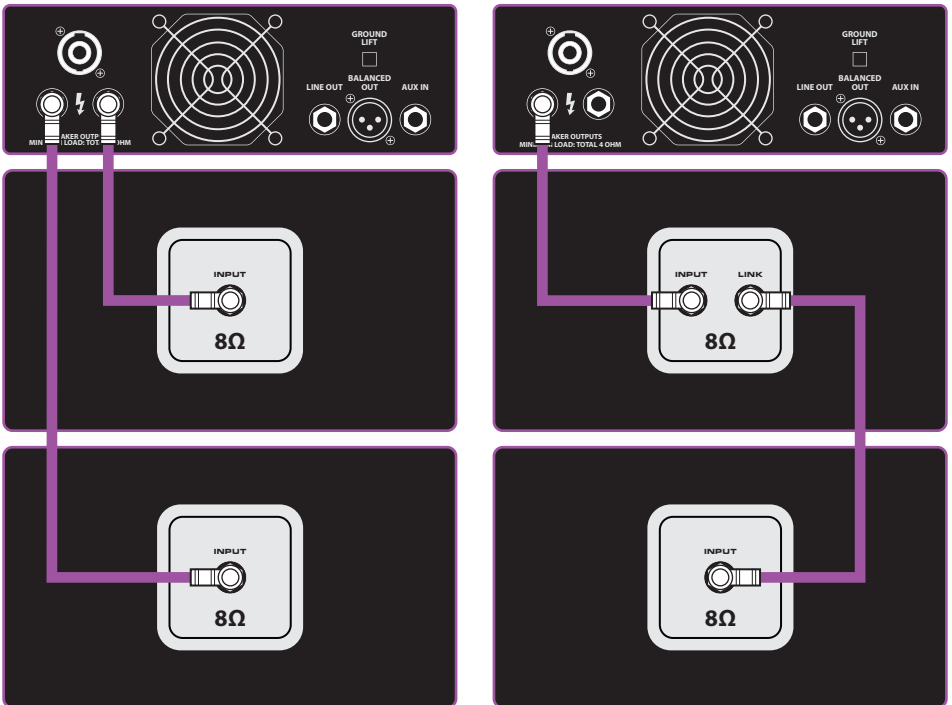
## TURNING ON YOUR AMPLIFIER

- Please check that the voltage of your amplifier is set to the correct voltage for your country.
- Ensure that the impedance of your amplifier and speaker cabinet are matched. (4 ohm minimum speaker load).
- Ensure that your amplifier is plugged into your speaker cabinet.
- Set MASTER and GAIN to zero.
- Set BASS and TREBLE knobs to 12 o'clock.
- Plug your instrument into the INPUT of your amplifier using a 1/4" instrument cable.
- Turn the amplifier on. Set GAIN so that the LIMIT LED engages on loud notes and then set the MASTER to the desired volume for your playing environment.
- Boost or cut BASS, TREBLE and the faders of the GRAPHIC EQUALIZER to adjust your sound and toggle LIMIT on or off for desired dynamics. There may be a jump in volume when disengaging the LIMIT function.

# STUDIO AND FRONT OF HOUSE OUTPUT CONFIGURATIONS



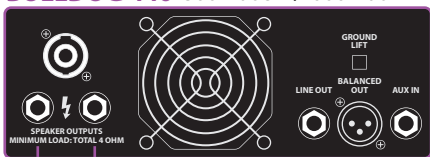
## CONNECTING A SECOND SPEAKER CABINET



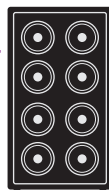
## CONNECTING SPEAKER CABINETS CONTINUED

Due to the linear nature of Class D amplification, running these amplifiers into a 4 ohm load will result in double the volume and power output from the amplifier. Ensure that your speaker load is sufficient enough to handle this level of power. Below are the minimum ratings for running your amplifier at 8Ω and 4Ω respectively.

### BULLDOG 440 500w at 8Ω /1000w at 4Ω



**Two Cabinets**  
2x 600w (min)  
cabinets rated at 8Ω

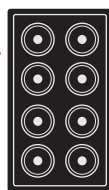


**One Cabinet**  
•600w (min)  
rated at 8Ω  
•1200w (min)  
rated at 4Ω

### BULLDOG 770 600w at 8Ω /1200w at 4Ω



**Two Cabinets**  
2x 800w (min)  
cabinets rated at 8Ω

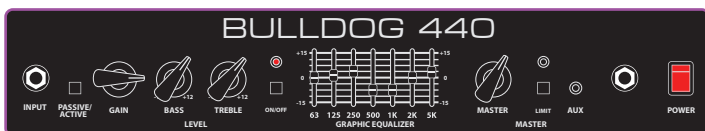


**One Cabinet**  
•800w (min)  
rated at 8Ω  
•1400w (min)  
rated at 4Ω

## GETTING CREATIVE WITH TONES

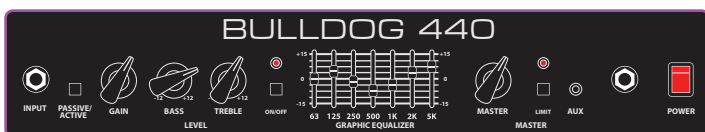
### Mid Scooped Overdrive

- GAIN set anywhere from 3 O'clock to max
- Boost BASS and TREBLE
- Cut middle frequencies on GRAPHIC EQUALIZER
- Set MASTER to desired volume level



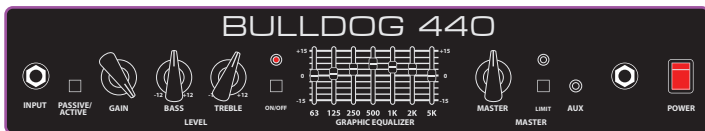
### Slap Bass With Limiter

- Set GAIN level to taste
- Boost BASS and TREBLE
- Cut middle frequencies and boost high frequencies on the GRAPHIC EQUALIZER
- Press the LIMIT button to engage the limiter
- Set MASTER to desired level



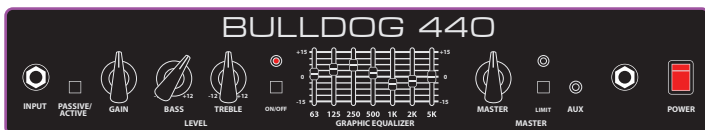
### Mid-Range Bite

- Cranked GAIN
- BASS set to Noon
- Boost TREBLE to taste
- Set middle frequencies on the GRAPHIC EQUALIZER
- Set MASTER VOL to desired level



### Vintage Thump

- Set GAIN to taste
- Boost BASS
- Set TREBLE to Noon
- Boost low mids and cut high mids on the GRAPHIC EQUALIZER
- Set MASTER VOL to desired level



# HIWATT



## BRITISH ENGINEERING

- Hiwatt amplifiers are warranted against defects in materials and workmanship for a period of 1 year.
- Speakers, transformers, reverb tank, batteries, and tubes/valves for 90 days.
- Please note: It is your responsibility to use the equipment safely and properly, without modifications, within specifications and with a safe power supply.
- Please note: The limited Warranty provided is non-transferable. (please register your product online and retain sales receipt and original packaging) and authorization needs to be obtained by Hiwatt Electronics (Hiwatt.co.uk) before any service work is completed by a professionally qualified Service Technician.
- Shipping costs incurred obtaining warranty service are the responsibility of the purchaser, and the purchaser must obtain permission to ship any/all product prior to shipping.
- Please note: Any damages incurred in shipping must be reported to the shipper and Hiwatt Electronics immediately upon receiving the product.

### Follow all instructions and warnings

Please keep instructions in a safe place

Register product online: **Hiwatt.co.uk**

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

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

Store Contact Info: \_\_\_\_\_



RECYCLING INFO

### Hiwatt Electronics Limited

Unit 3, Plumb Units, Sandall Stones Road  
Kirk Sandall, Doncaster  
DN3 1QR

SALES@HIWATT.CO.UK



REGISTER PRODUCTS