

HIWATT



HI-GAIN SERIES  
HI-GAIN 50 & 100



OPERATING INSTRUCTIONS

[www.hiwatt.co.uk](http://www.hiwatt.co.uk)

THE  
LEGEND  
LIVES ON

HIWATT  
HIWATT HI-GAIN 100

Dear Guitarist,

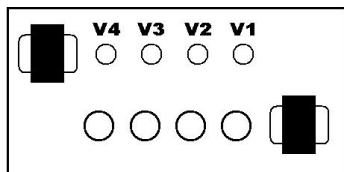
Welcome to the Hiwatt family! Now you are part of a team with more than 30 years of experience building the tone of Rock n' Roll. Your Hiwatt Hi-Gain combines an incredible sound found in our Custom Range Amplifiers with the flexibility of two footswitchable channels, push-pull controls, reverb, special designed FX Loop and much more... We bring you total control and versatility together with the Vintage and Modern. At last! We hope you enjoy it!!!!



Best wishes from all at HIWATT

*Specifications*

Supply Voltages:	~100V / ~120V / ~220V / ~240V
Power Consumption:	154W (HG50) / 310W (HG100)
Output Power Rating:	50Wrms (HG50) / 100Wrms (HG100)
Mains Fuse:	F2.5AL250V (100 ~120V) T1.25AL250V (220 ~ 240V) (HG50) F5AL250V (100 ~120V) F2.5AL250V (220 ~ 240V) (HG100)
HT Fuse:	T1AH
Impedance:	Input 1MΩ / Output 4Ω, 8Ω or 16Ω
Tubes:	



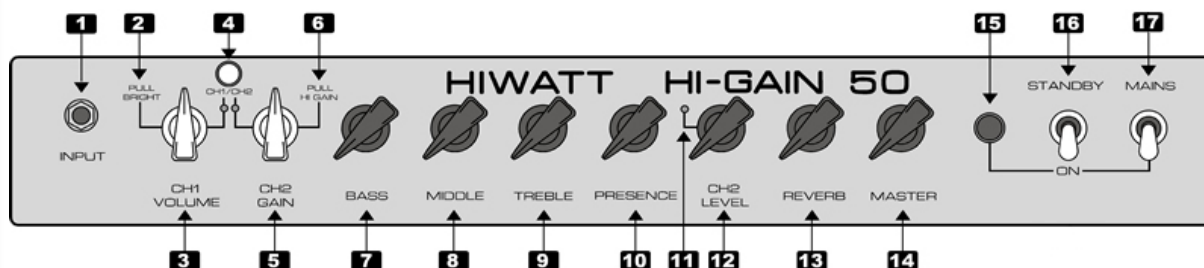
PreAmp Valves  
 3 x 12AX7 / ECC83 (V1, V2, V3)  
 1 x 12AT7 / ECC81 (V4)

Power Valves  
 2 x EL34 (HG50)  
 4 x EL34 (HG100)

## IMPORTANT SAFETY INSTRUCTIONS

- Read all safety and operating instructions carefully before using switching on.
- All safety and operating instructions should be retained for future reference.
- Obey all cautions in the Operating Instructions and on the back of the unit.
- The amplifier should be powered by a three pin grounded (or earthed) plug connected to a power socket with a grounded earth outlet. Never break off the ground pin on a power supply cord.
- Do not switch the amplifier on without the loudspeaker connected.
- Ensure that any extension cabinets used are of the correct impedance.
- It is recommended that all audio cables, with the exception of the speaker lead, used to connect to the amplifier are of a high quality screened type. Always use a non-screened speaker lead with the speaker cabinets.
- The amplifier should be located so that its position does not interfere with its proper ventilation.
- The user should not attempt to service the equipment. All service work is done by a qualified service technician.
- NEVER attempt to by-pass the fuses or fit ones of the incorrect values.
- Do not attempt to remove the amplifier chassis, there are no user serviceable parts.
- Never use an amplifier in damp or wet conditions. No objects filled with liquids should be placed on the equipment.

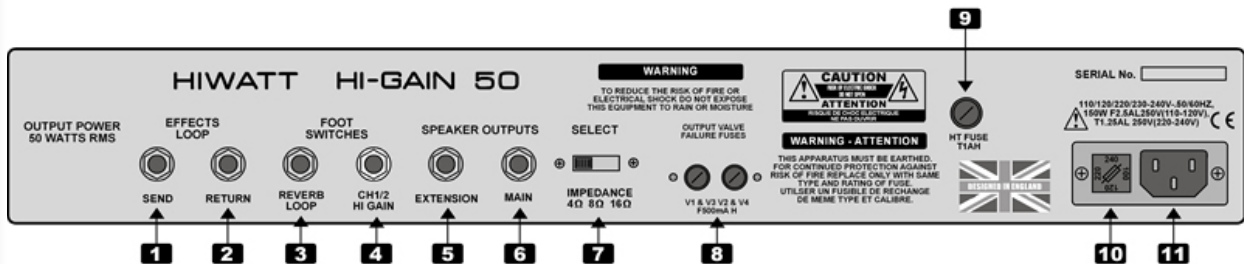
## Front Panel Controls



- 1** INPUT – Jack Input for guitar.
- 2** PULL BRIGHT\* – When pulled boosts the signal on clean channel. It can be toggled from the “High Gain” switch on the footswitch.
- 3** CH1 VOLUME – Controls the gain level for Channel 1.
- 4** CH1/CH2 SWITCH\* – Selects Channel 1 or Channel 2. It can be toggled from the “CH1/CH2” switch on the footswitch
- 5** CH2 GAIN – Controls the gain level for Channel 2. As the amount of gain increases so will the distortion level in the sound.
- 6** PULL HI GAIN\* – When pulled drives more the signal on dirty channel. It can be toggled from the “High Gain” switch on the footswitch.
- 7** BASS – Adjusts the low-frequency tone.
- 8** MIDDLE – Adjusts the mid-frequency tone
- 9** TREBLE – Adjusts the high-frequency tone.
- 10** PRESENCE – Adds higher frequencies to the guitar tone after the power stages.
- 11** CH2 LED – Indicates when CH2 Level control is active.
- 12** CH2 LEVEL – Controls the volume level of Channel 2.
- 13** REVERB – Controls the reverb level on both Channels. It can be toggled from the “Reverb” switch on the footswitch
- 14** MASTER – Adjusts the overall volume of the amplifier.
- 15** POWER LIGHT – Indicates when the Mains Switch is ON.
- 16** STANDBY SWITCH – Disconnects H.T. or high voltage from the valves to allow them to attain correct working temperature before playing. Always switch on the Mains Switch about 2 minutes before switching on the Standby.
- 17** MAINS SWITCH – On / Off Switch for mains power to the amplifier.

\* Controls inactive when footswitch is plugged in.

## Back Panel Controls



**1** SEND – For connection to the input of an external effects pedal, rack or processor. The “Loop” switch on the footswitch allows you to bypass the external effect.

**2** RETURN – For connection to the output of an external effects pedal, rack or processor.

**3** FOOTSWITCH REVERB / LOOP – By connecting the supplied footswitch to this jack it is possible to turn on the Reverb and bypass or use the Effects Loop (Send, Return).

**4** FOOTSWITCH CH1/CH2 / HI GAIN – By connecting the supplied footswitch to this jack it is possible to change between Channel 1 and Channel 2, and controls the switches on the front panel. The footswitch will override the front panel switches.

**5** EXTENSION SPEAKER – Connection for an external speaker cabinet. This jack puts the extension speaker in parallel with the main speaker. Check the correct selection for the speakers on item 7.

**6** MAIN SPEAKER – Connection for the primary speaker (internal or external).

**DO NOT OPERATE WITHOUT A LOUDSPEAKER CONNECTED.**

**7** IMPEDANCE SELECTOR – Select the correct impedance according to one of the possible configurations below:

- One 4 Ohm cabinet, set to 4 Ohms;
- One 8 Ohm cabinet, set to 8 Ohms;
- One 16 Ohm cabinet, set to 16 Ohms;
- Two 8 Ohm cabinets, set to 4 Ohms;
- Two 16 Ohm cabinets, set to 8 Ohms;

**8** FAILURE FUSES – The fuse must be replaced when the LED is ON. If the fuse blows after be replaced try changing the output valves.

**9** HT FUSE – Protects the DC power to the tubes within the amplifier. Have the amplifier tested by a qualified technician if it repeatedly blows fuses.

**10** VOLTAGE SELECTOR/MAIN FUSE – Make sure the specified voltage is correct for your country! Use only the correct size and rating fuse as specified on the panel.

**11** MAINS PLUG – Connect the mains lead to your power source.

