



HIWATT AMPLIFICATION LIMITED WARRANTY

HIWATT amplifiers are warranted against defects in materials and workmanship for five (5) full years from the date of purchase with the exception of footswitches, patch cords, tubes, transformers and meters; these are warranted for 90 days from date of purchase. This warranty is to the original purchaser only and may not be transferred. While under warranty, all replacement parts and labor will be provided without charge. This warranty does not cover damage caused by misuse, accident, neglect or normal wear and tear. Determination of such damage shall be by HIWATT Amplification exclusively. The warranty will be void if repairs have been attempted or performed by anyone other than HIWATT Amplification.

To validate the warranty, the Warranty Registration Card must be completed and returned to HIWATT Amplification within ten (10) days of retail purchase.

Should your HIWATT product require service, you must contact either the HIWATT dealer you purchased it from or HIWATT Amplification directly, and the need for return will be determined and authorized. Products returned to HIWATT Amplification require a Return Authorization Number (RA#) on the outside of the carton. Products needing warranty repair must be returned securely packed to HIWATT Amplification and must be accompanied by a copy of the original sales receipt. All transportation charges are the responsibility of the purchaser.

HIWATT Amplification reserves the right to repair or replace defective units. In the event a duplicate part or product is no longer available, HIWATT Amplification will replace the product with one of equal, or greater value at the sole discretion of HIWATT Amplification.

HIWATT Amplification is not responsible for any incidental or consequential damages resulting from any defect or failure of the product other than the repair or replacement of the product under the terms of this warranty. This limited warranty gives you specific legal rights which vary from state to state and is in lieu of any and all other warranties either expressed or implied except as may otherwise be required by law.

CLASSIC SERIES AMPLIFIERS

Thank you for purchasing a HIWATT product. A look inside the amplifier will reveal point-to-point hand wiring, turret tag boards (no printed circuits), and hand laced wiring harnesses. The power and output transformers are manufactured by Partridge, the original 1970's supplier to the original design sheets. The components and wires are the modern available equivalents of the vintage components, 1-watt carbon resistors, and wound polyester capacitors being used throughout.

CUSTOM 50 and 100 Heads

These amp heads are as exact a replica as possible of the DR103's and DR504's that were built in the early seventies under the ownership of Dave Reeves. The Classic 50, 100 heads feature all tube performance, with four ECC83 preamp tubes, EL34 power tubes and adjustable 4, 8 & 16 ohm output impedance.

CUSTOM 50 Combos

Based on the original "Bulldog" combo, the Custom 50 combo combines the 50-watt amplifier head with one or two specially designed 75W 12" Fane speakers, all built into an 18 marine ply cabinet. Dave Gilmour Signature Combo has same circuitry and construction but with an internal link between normal and bright channels.

Signature Heads and Combo

Signature amplifiers are based on Custom 50 and 100 units, but with modifications as commissioned by Dave Gilmour and Pete Townshend accordingly. The DG-103, DG-504 and DG-212 use a specially linked input system, where the gain of each channel can be altered separately while combining both sounds. The CP-103 and CP-504 feature more gain and a more responsive Bass and Treble control network. Utilizes 4 independent pre-amp channels (with 5 x ECC-83 tubes), 4 individual Volume Controls and a Master Volume.

CUSTOM 7 and 20 Heads and Combos

Designed for the tube amp lover who prefers the rich, uninhibited tone of pure Class A, we offer the Custom 7 and Custom 20 amplifiers. Powered by EL-84 valves and utilizing a high gain controlled preamp in addition to it's point-to-point wiring with three 12AX7 valves, the Custom 7 and 20 serve jazz, pop and rock guitarists alike. The Combos feature powerful 75W 10" Fane speakers.

STUDIO/STAGE Head and Combo

Using a specially wound output transformer, the Studio/Stage combo can switch from 20 watts to 40 watts of power, while retaining its Class A pure tone. Features gain with switchable boost, full size Accutronic spring reverb and 12" Fane speakers.

CUSTOM 200W and 400W Bass Heads

Designed to the same specification and construction as the DR201 and DR405 respectively, the HIWATT Custom 200 and 400 feature KT-88 power tubes for the optimum level of output (4 x KT-88 in Custom 200 , 6 x KT-88 in Custom 400), 4 x ECC-83 tubes in the preamp section (add 1 x ECC-81 in the Custom 400), and Partridge transformers. Adjustable 4, 8 & 16 ohm output impedance.

BEFORE OPERATING THIS EQUIPMENT

CAUTION: Extremely high voltages exist in this amplifier and there are no user serviceable parts. For maintenance or in the unlikely event of a repair being required, refer to HIWATT Amplification only. **DO NOT OPERATE THE AMPLIFIER WITH ANY OF THE COVERS REMOVED.**

WARNING: EXPOSURE TO HIGH SOUND VOLUME MAY CAUSE PERMANENT HEARING DAMAGE.

1. Check that the voltage selector is set to the correct wall voltage.
2. Always use an earthed supply.
3. Always connect a loudspeaker system of the correct impedance (4,8 or 16 Ohms) and set the impedance selector to that value prior to switching on the amplifier. Use only correct two-core loudspeaker cables terminated with mono jack plugs. Use of co-axial leads like guitar leads will invalidate the warranty and may damage the amplifier. In common with all valve amplifiers, it is vital that the amplifier is not operated into an open circuit.
4. Check that the correct fuses are fitted in the fuse holders on the rear panel.
5. Before switching the amplifier on ensure that the standby switch is in the off position.

OPERATION

- Dual channel (Normal & Bright) preamp available in 50W and over models, with Low and High sensitivity input and individual volume for each channel, suitable for guitar or bass amplification, with passive or active pickups.
- With the NORMAL VOL or BRILL VOL full you may find that some high gain pickups and active systems will give a distorted signal.
- Tone Volume section may include Bass, Treble and Middle EQ controls for tone shaping, and Presence control accentuates overall high and mid frequencies.
- The tone controls operate on either input and the presence control allows an extremely bright and aggressive sound to be selected at the upper end of the setting. Experienced HIWATT users will confirm that this was always the case with the old heads. All the inputs may be used simultaneously (just like the old bands did).
- Master Volume Control sets the amount of effective output of power tubes.
- Although these amplifiers are primarily designed for clean sounds, they may be overdriven with any external effect device to offer many other possibilities.

DO's and DON'T's

- DO keep amplifier away from children.
- DO unplug amplifier from socket if danger of lightning exists.
- DO switch off all electric equipment before making connections.
- DO avoid direct contact with tubes shortly after amplifier has been turned off.
- DO always use the standby switch when switching on the amplifier. Switching on an amplifier with EL34 output valves without using the standby could seriously reduce the valve life. Allow the amplifier to warm up for two minutes before switching the standby on. The standby can also be used as a mute, for tuning or a quick string change.
- DO always check the voltage and impedance settings especially when touring or in a studio setting.
- DO remove AC mains socket if amplifier will be stored for long period of time.
- DO have the output tubes replaced regularly and use only matched sets of EL34's. The output valves affect the sound of the amplifier and different players like different tubes. An average set of quality valves should last for approximately 2000 hours of use, about 5 hours a day for a year. This is the maximum period for a premium original sound. Always disconnect the amplifier from the mains and allow the valves, all of which run very hot, to cool prior to replacing them.
- DON'T replace the ECC81 with an ECC83 as this will produce an extremely unstable high frequency response that will not be controllable. As for the preamp valves we recommend that they are kept in until they cause trouble. Symptoms of this are noise, popping and microphone squeals or rattles through the loudspeaker.
- DON'T disconnect a loudspeaker lead at the loudspeaker end if the amplifier is still operating (The single situation most likely to cause damage to a valve amplifier is driving it into an open circuit).
- DON'T attempt to repair or modify a HIWATT product yourself. Only factory repairs are acceptable in warranty claims, HIWATT Amplification exclusively relinquishes all responsibility for any unit modified or misused in any way.
- DON'T cover the amplifier or block the air vents.
- DON'T place drinks on top of the amplifier or allow any liquid to fall in it.
- DON'T store the amplifier in damp or dusty conditions, direct sunlight or extremely high temperatures.

CLEANING

- Do not attempt to clean any part of the amplifier when it is switched on.
- The vinyl may be cleaned with a damp (not wet) cloth or brush.
- The chassis and front panel may be wiped with a moistened cloth with water and mild detergent or an alcohol based cleaner and then dried.
- Do not use silicone based polishes or solvents as benzene or paint thinner to clean the unit.

FOR MORE INFORMATION AND OTHER HIWATT PRODUCTS PLEASE VISIT
WWW.HIWATT.COM

HIWATT Amplification Warranty Registration

Complete, insert in an envelope and mail us this form
within 10 days of purchase to activate warranty.

You will receive the official HIWATT Newsletter every month!

Model# _____
Serial# _____
Store Purchased From _____ Price \$ _____
Check One: Purchased ___ Gift ___
Date Purchased _____
Name _____
Address _____
City _____ State _____ Zip _____
Phone _____ Age _____
E-mail _____ Annual Income \$ _____
How did you find out about HIWATT?
Internet ___ Friend ___ Teacher ___ Salesperson ___
Musicians ___ Magazine ___ Catalog ___ Other _____
What made you purchase this product?
Appearance ___ Price ___ Sound ___ Features ___
Recommendation ___ Artist who plays it _____
What additional features would you like? _____
How much would you be willing to pay for these features? \$ _____
Which magazines do you read regularly? _____
Who are your favorite musicians or groups? _____
What other amps and guitars do you own? _____
Comments _____



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