



Innovating the Art of Listening



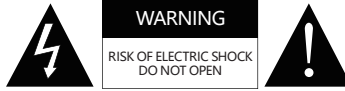
# EF1000

Hybrid Tube Headphone and Speaker Amplifier  
User Guide

Thank you for your purchase of the EF1000 Hybrid Tube Headphone and Speaker Amplifier. To ensure the correct operation procedure, please read the operating instructions carefully. After reading, please retain for reference in the future.

Safety Precautions .....	01
Technical Data .....	04
Features .....	05
Notes for Operation .....	06
Functions .....	07
Initial Setup .....	11
Basic Operation .....	12
Replacing Vacuum Tubes .....	13
Toubleshooting .....	14
Warranty and Customer Service ....	15

Please note: To make the instructions more clear you may find the illustrations in this guide slightly simplified compared with the actual product.



TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Warning: Non-insulated dangerous voltage within the product's enclosure may be of sufficient magnitude to constitute a risk of electric shock.



Important operating and maintenance instructions in this user guide accompanying the product.

Warning: To avoid fire or shock hazard, this product should not be exposed to rain or other moisture.

### **Note:**

To completely cut off the power, the electrical plug should be unplugged.



Hot Surface

The radiator on the amplifier may also get very hot in use, do not touch when operating, cover or obstruct the air flow around it. The high-temperature area should not be touched, especially the top panel and areas surrounding the "Hot Surface" symbol.

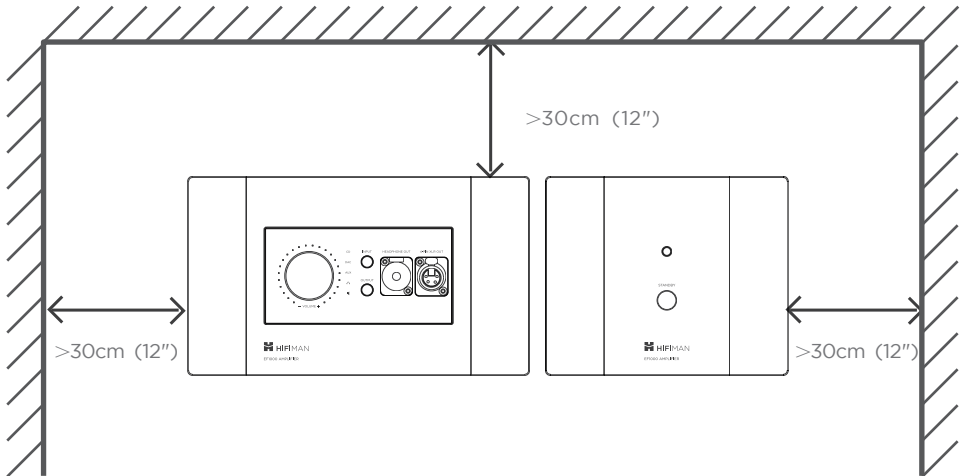
### Warning:

- Please read instructions carefully. Store and retain the operations guide for future reference. Pay attention to all warning information and operate in accordance with the instructions.
- Avoid high ambient temperature use. Do not operate the amplifier in a room temperature over 40°C or 104°F. Please allow the heat to fully dissipate after use.
- Grasp the plug firmly when the power cable is being unplugged. Do not pull the cable to unplug.
- This product should not be placed in a dusty, dirty environment or be exposed to very high humidity (sauna, bathroom etc.)
- The plug should be unplugged if the product will not be used for a long time.
- Air ventilation should not be blocked or obstructed.
- Nothing should be dropped onto the amplifier or power unit as it could cause damage, especially to the delicate tubes inside.
- Do not expose the product to chemicals such as pesticides, benzene, acids or alkalines.
- This product should not be disassembled or refitted by anyone other than HIFIMAN.
- To avoid fire, while the amplifier is working, vacuum tubes and air vents should not be obstructed with papers, tablecloth, curtains or any other items.
- Open flames such as candles should not be placed on or near the amplifier.
- Highly flammable, liquids should not be dropped or sprayed on the amplifier.
- To avoid fire hazard, items containing liquids such as vases or glasses should not be placed on the amplifier.
- Do not operate with wet or oily hands.
- There is high voltage output on the output terminal of front panel of the amplifier. To avoid shock hazard, nothing should be inserted in the output port of the amplifier except a suitable headphone jack.
- The power cable should not be trampled on or be a trip hazard.
- Accessories and spare parts used should be specified by HIFIMAN only.
- Please Note: The cases that contain the product are very heavy. Care must be taken when moving so no damage nor injury occur.
- In case of electrical storms please remove the plug from the power socket.



TRANSPORT  
CASES WARNING

- In the following situations, please disconnect the power supply from the amplifier and contact HIFIMAN customer service:
  - A. The power cable or plug is damaged.
  - B. The amplifier has fallen to the ground or liquid has spilled into or on the equipment.
  - C. The amplifier has been exposed to an extreme humid environment.
  - D. The amplifier will not power up.
  - E. The amplifier or power supply unit outer covering has been damaged.
  - F. The amplifier does not seem to operate properly, or it has a noticeable change in performance.



- Do not cover the venting holes on the top and bottom plates. When installing it on a rack or a shelf, keep 30cm or more free space from the amplifier ( see above graphics. )

## Specifications:

Input Stage: Vacuum Tube SRPP Circuit

Headphone Output for 35Ω Load: 20w. pure Class A

Amplifier Output for 8Ω Load: 50w. pure Class A, 110w. Class A/B

SNR (A weight): 108dB

Dynamic Range: 111dB

THD: 0.15%

## Weight & Dimensions:

Main Unit

13.45 kg (29.65lb) / L460x280x170 mm<sup>3</sup> (18.11" x 11.02" x 6.69")

Power Supply

11.2 kg (24.69lb) / L360x 200x170 mm<sup>3</sup> (14.17" x 7.87" x 6.69")

## Accessories:

Power Cable

7-pin DC Connector

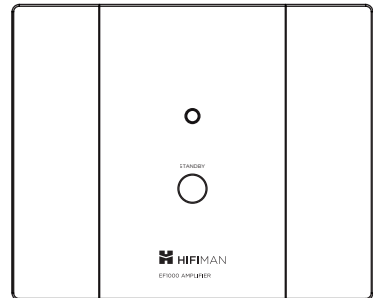
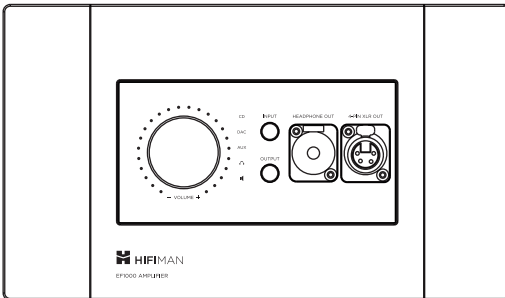
12-pin DC Connector

Remote Control

User Guide

## Features

- The EF1000 is the perfect combination of the beautifully natural sound from vacuum tubes yet with all the power output of a solid-state amplifier.
- The internal SRPP circuit uses six 6922 vacuum tubes and six pairs of transmitters in parallel along with a separate, isolated, power supply design.
- The EF1000 can drive even the least sensitive, most power-hungry headphones and speakers of low sensitivity can all be driven effortlessly.
- The EF1000 volume control uses the same relay-based attenuator technology from the SHANGRI-LA. This offers a silky smooth response and ultra-low distortion by its use of dedicated pathways.



## 1. AC Fuse

Do not open the panels to repair the fuse. Please contact your distributor or HIFIMAN customer service if any malfunction occurs.

## 2. Caution

Front and rear panels should be wiped clean with a dry soft cloth.

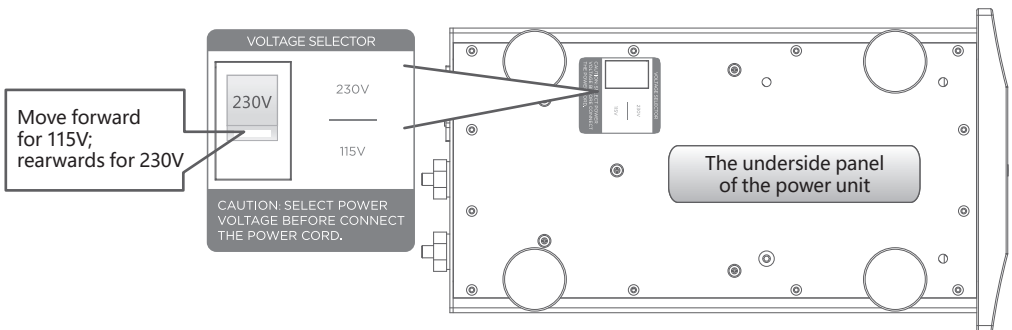
To remove stubborn dirt, use a soft cloth with mild detergent solution and dried to wipe. Continue to wipe dry with a clean cloth. A rough cloth with ethyl alcohol or other chemical solvent must not be used, as they may cause damage to the surface coating.

## 3. Power Source

### Warning:

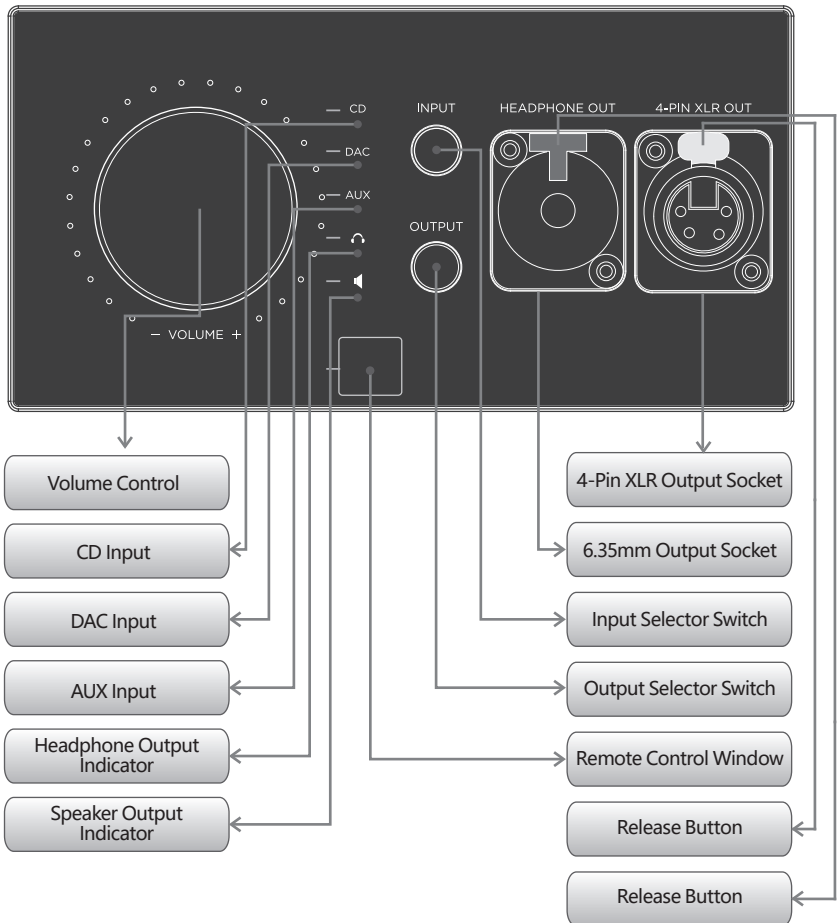
Please read the following instructions before connecting this product to a power source for the first time. Power voltage may vary in different countries and areas.

Please make sure the rated voltage ( for instance, alternating current AC 230V 50Hz or alternating current AC 115V 60Hz ) on the panel corresponds to local mains voltage. If not, the power supply should be turned off and the power cable should be disconnected, adjust the voltage selector with a flat head screwdriver. Make sure the power supply corresponds to the local mains voltage before reconnecting.





## Amplifier Front Panel

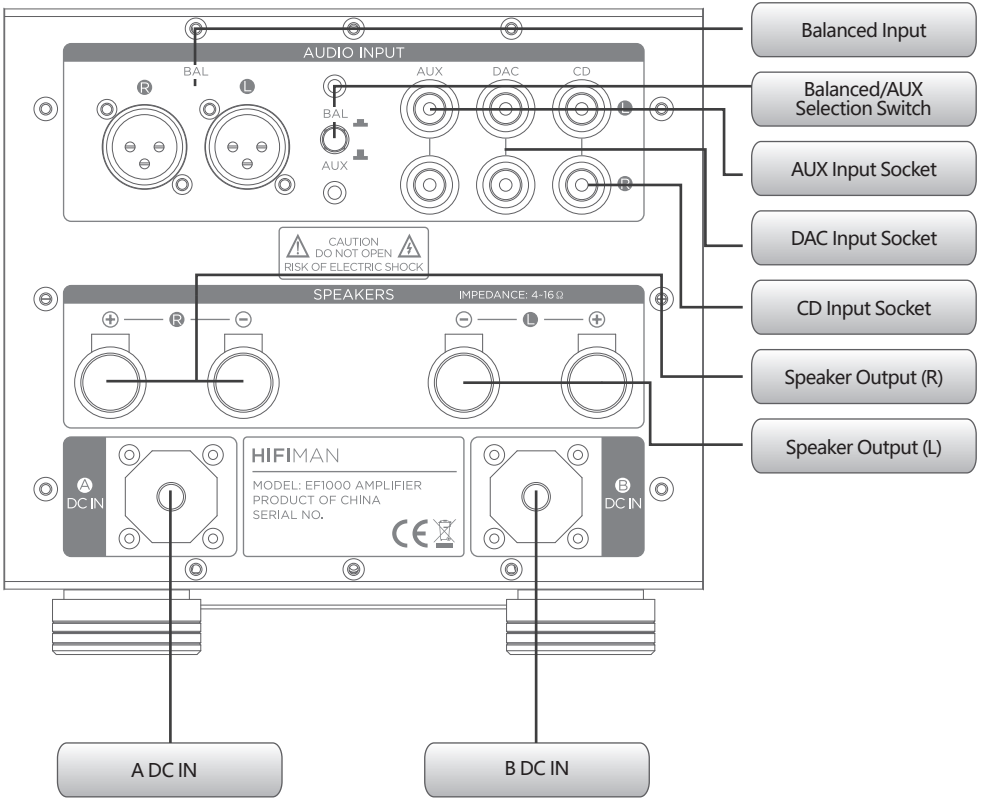


Headphone plug types: 6.35mm (1/4") and 4-pin XLR

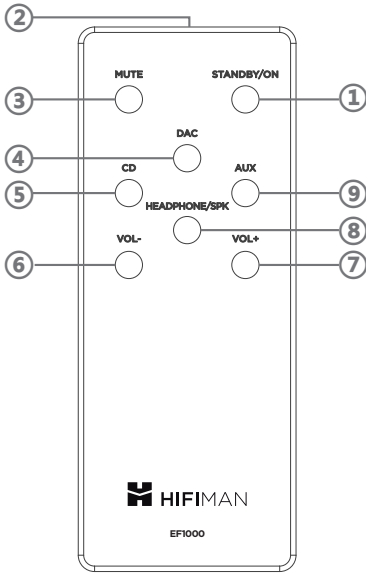
When the headphone is connected to the amplifier, the auto-locking mechanism will secure the headphone plug in place.

To disconnect the headphone, press the release button and gently pull the plug out at the same time.

## Amplifier Unit Rear Panel



## Remote Control



1. STANDBY. Standby mode does not fully power down the device.
2. Press any key on the remote control and the remote indicator will turn red.
3. Press MUTE to mute the volume.
4. Press DAC to select the DAC Input.
5. Press CD to select the CD Input.
6. VOL- to decrease the volume.
7. VOL+ to increase the volume.
8. HEADPHONE/SPK to switch the output between the headphone and speaker outputs.
9. Press AUX for AUX Input.

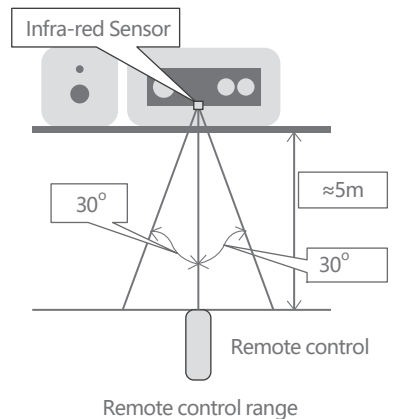
### Please note:

Aim the remote control at the sensor on the amplifier to operate.

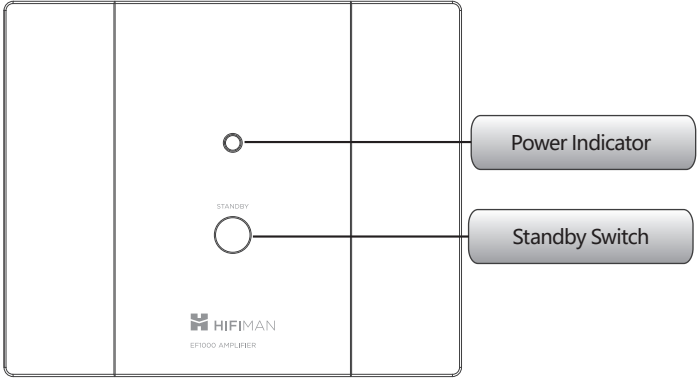
Do not place objects between the remote control and the sensor on the amplifier. Items blocking the line of site may prevent remote operation.

If the remote control range begins to decrease the battery's may soon need replaced.

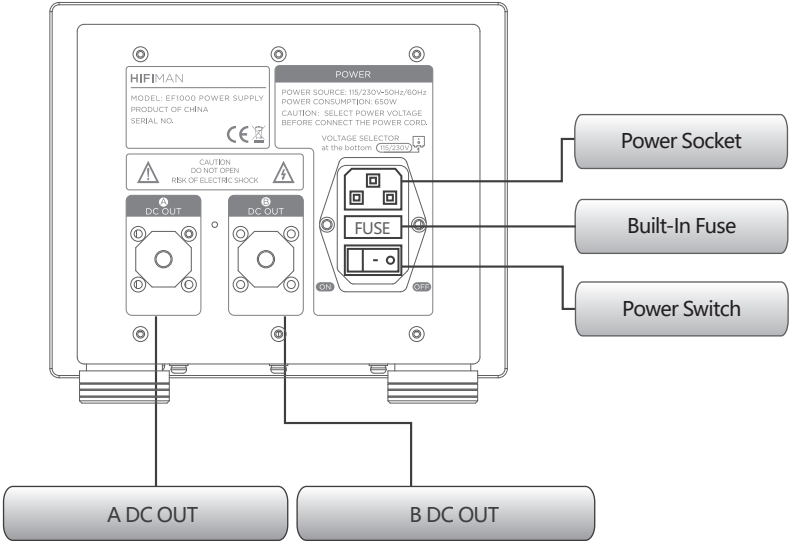
\*Please dispose of the old batteries responsibly and with consideration for the enviroment.



Power Supply Front Panel



Power Supply Rear Panel

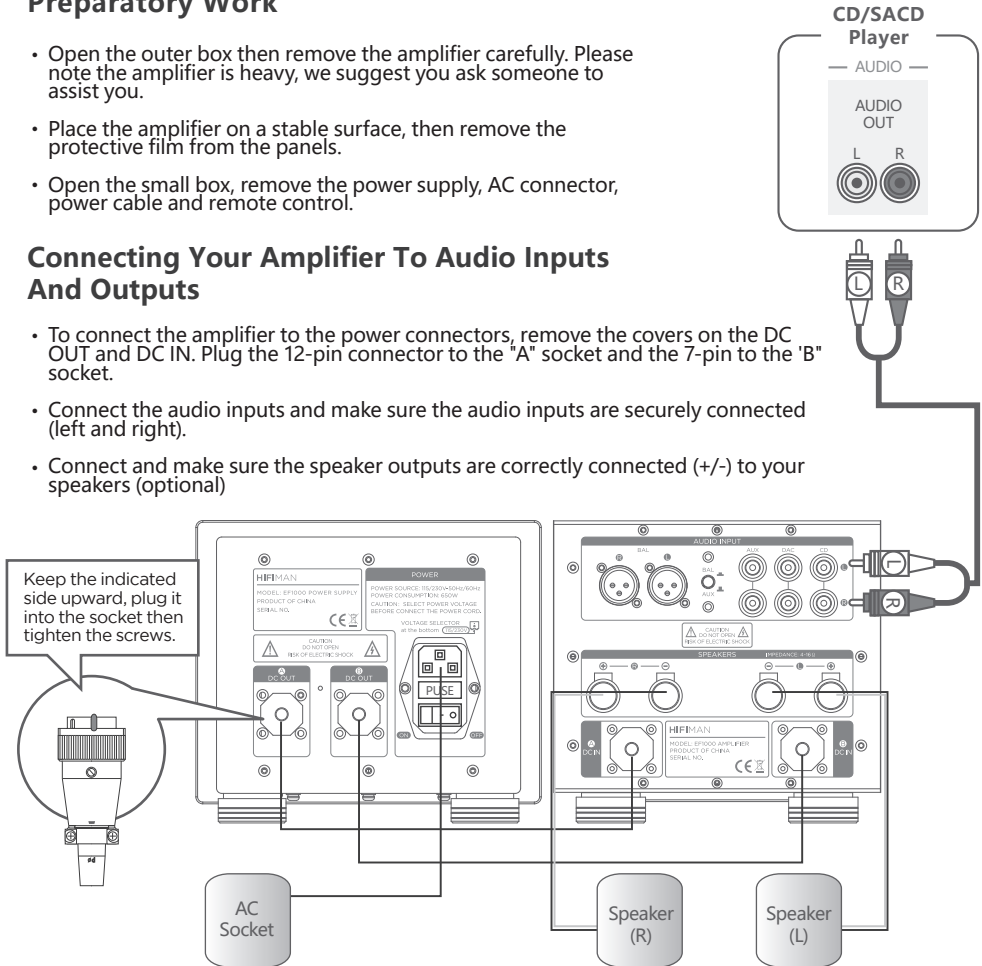


### Preparatory Work

- Open the outer box then remove the amplifier carefully. Please note the amplifier is heavy, we suggest you ask someone to assist you.
- Place the amplifier on a stable surface, then remove the protective film from the panels.
- Open the small box, remove the power supply, AC connector, power cable and remote control.

### Connecting Your Amplifier To Audio Inputs And Outputs

- To connect the amplifier to the power connectors, remove the covers on the DC OUT and DC IN. Plug the 12-pin connector to the "A" socket and the 7-pin to the "B" socket.
- Connect the audio inputs and make sure the audio inputs are securely connected (left and right).
- Connect and make sure the speaker outputs are correctly connected (+/-) to your speakers (optional)



You can use either an balanced cable and RCA cable to suit your need for different audio outputs. These are not included.





Balanced cable





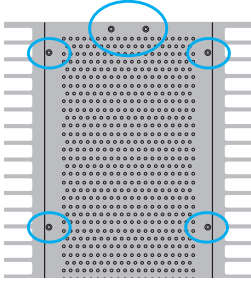
RCA cable

## Initial Use

- Switch the Power on. The red STANDBY indicator light will turn on.
- Long press the STANDBY button on the power supply or the remote control, the indicator light will turn white.
- The volume indicator light may remain red at the lowest level which means the amplifier is warming up for 10 seconds. The volume control function is shut down temporarily until the indicator turns white, the amplifier is now ready to operate and the volume control resumes its normal function.
- Push INPUT on on the amplifier and select the audio input source: CD, DAC or AUX.
- Power on the corresponding input device and select the music you wish to play.
- Push the OUTPUT on and select the headphone  or speaker  as output source.
- Turn the volume control to set optimal volume level or use the remote control.
- Push the STANDBY button on the amplifier for a few seconds and the device will go to STANDBY mode. You can also press the STANDBY button on the remote control.
- Push the Power on the power supply to "OFF" to completely shut down the device. The STANDBY indicator will go off.

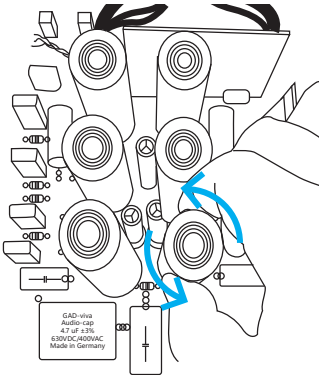
## Balanced Input and AUX Input

- For Balanced Input, press INPUT and select AUX as input source. Then set the BAL/AUX selection switch to pressed in 
- For AUX Input, set the BAL/AUX selection switch to out 

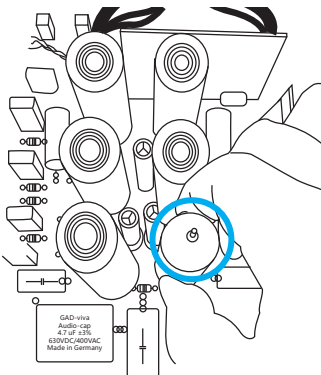


### How to Replace the Vacuum Tubes

- Carefully remove the ten hex screws to allow the removal of the top panel



- Press and gently turn the tube guard protector anticlockwise to allow it to be lifted out.



- Hold the tube firmly and gently pull upward to remove.
- Insert the new tube and replace the tube guard protector, ensuring its securely back in place.
- Place the top panel back onto the amplifier and then secure by replacing the 10 hex screws which will hold it safely in place.

Please note: If you are still unable to replace or complete the process, please contact HIFIMAN customer service for assistance.

### Please check for the following possible issues:

Are the connections correct?

Has the device been operated in accordance with the manual?

Are the connected devices working properly?

If the product is not operating properly, please check for the following problems.

If you require assistance please contact the distributor from whom this product has been purchased or contact HIFIMAN customer service.

Problems	Possible Causes	Solutions	page
Power indicator will not come on	Power plug not inserted properly or fully	Check the power plug has been inserted into the socket properly and fully	11
Power indicator is on but there is no sound	Input cable not properly or fully inserted	Correct the input cable connection	11
	speaker cable not properly or fully inserted	Correct the speaker cable connection	11
	Incorrect input selection	Set the input selector switch correctly	12
	The volume is set very low	Slowly increase the volume output with the volume dial	12
Left and right channel are reversed	The left and right input cables are reversed	Correct the left and right channel connection	11
No sound from one channel	The left or right input cable is not properly or fully inserted	Correct the left and right channel connection	11
No sound from the headphone	The headphone cable is not properly connected or the headphone is damaged	Fully or properly insert the plug or change for another headphone	11
No sound from AUX or BAL input	BAL/AUX is not correctly selected	Set the BAL/AUX selector switch correctly	12



## HIFIMAN Limited Warranty

The EF1000 comes with our standard three-year warranty. We will cover any problems that may occur not caused by deliberate or accidental damage nor user error, at our discretion.

Please note:

For the first year of the warranty, we provide free repair and shipping.

For purchase over one year and within 3 years, we provide free repair but not the shipping costs. For any out of warranty contact HIFIMAN or your local authorized HIFIMAN dealer.

**For any further information or questions, please email us directly at [customerservice@HIFIMAN.com](mailto:customerservice@HIFIMAN.com).**



[facebook.com/hifimanelectronics](https://facebook.com/hifimanelectronics)



[twitter.com/hifimanofficial](https://twitter.com/hifimanofficial)



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



## 1. Correct disposing of waste electrical and electronic equipment (WEEE) and symbol of the “crossed-out wheeled bin”

The crossed-out wheeled bin on WEEE means that you are obliged by law to dispose of this equipment separately from the unsorted municipal waste collection system.

Disposing of it in the residual waste bin, the yellow bin or yellow bag for recyclable materials is legally prohibited. If the equipment contains portable batteries, accumulators or lamps that are not permanently installed, these must be removed before disposing of the product and be disposed of separately as waste portable batteries.

## 2. Ways of returning waste electrical and electronic equipment

Owners of waste electrical and electronic equipment can return them to those facilities for returning or collecting waste electrical and electronic equipment set up and provided by the public-sector waste disposal authorities or alternatively with collection points installed by producers, retailers or distant sellers to ensure that the waste electrical and electronic equipment is disposed of correctly. The following link leads to an online registry of the available collection and take-back sites: <https://e-schrott-entsorgen.org/>

## 3. Data privacy

We should point out to all end-users of waste electrical and electronic equipment that they themselves are responsible for deleting all personal data from the waste electrical and electronic equipment to be disposed of.

**WEEE Reg. No. DE 73830605**

**WEEE Reg. No. DE 48150071**





## FACEBOOK

Scan QR Code to join  
HIFIMAN on facebook



Customer Service Tel: +1 201-443-4626  
E-mail: [customerservice@HIFIMAN.com](mailto:customerservice@HIFIMAN.com)  
Website: [www.hifiman.com](http://www.hifiman.com)



[hifimanelectronics](https://www.facebook.com/hifimanelectronics)



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



[twitter.com/hifimanofficial](https://twitter.com/hifimanofficial)