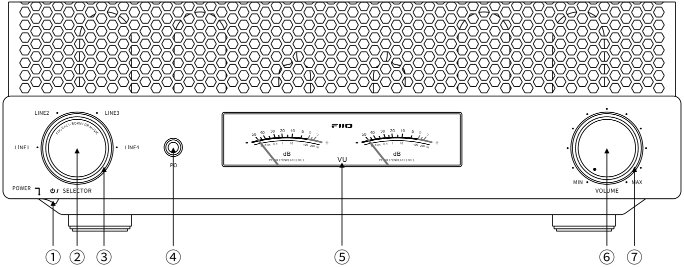
快速入门指南

Quick Start Guide

EA13

List of items included

- EA13 *1
- AC power cable*1
- Quick Start Guide*1
- Screwdriver*1
- Screw*2
- Warranty card*1



※Pictures are for reference only. The actual product may vary.

Ports and button function instructions

①Power switch (under the panel)
②Standby button and input selection knob
③Input selection indicator light
④6.35mm headphone output
⑤Dynamic power VU meter
⑥Volume knob
⑦Volume backlight

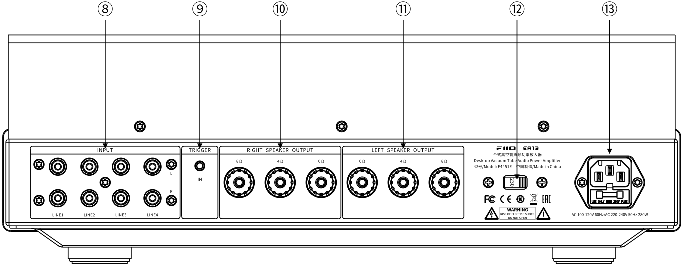
Power switch (under the panel): Used to turn the device’ s power on/off.

6.35mm headphone output: Compatible with 16–300Ω impedance

Auto standby/wake-up —
- Standby: Automatically enters standby state after 30 minutes without signal, with the input selection indicator light displayed in red.
- Wake-up: The device can be woken up by TRIGGER IN or by long pressing the power button on the panel.

Standby button and input selection knob
- Single press: Switch between RGB light effects
- Double press: Turn off RGB light
- Long press: Power on/standby
- Rotate: Switch between input channels

Volume knob
- Clockwise rotation: Volume up
- Counterclockwise rotation: Volume down



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⑧RCA input	⑩Right speaker output	⑫AC voltage selector switch
⑨TRIGGER power sync input	⑪Left speaker output	⑬AC power input socket and fuse holder

TRIGGER power sync input: Connect to an audio source’ s TRIGGER OUT using a 3.5mm audio cable for synchronized power on/off.

Left/Right speaker output: Compatible with 4Ω or 8Ω speakers— 4Ω speakers connect to 0Ω and 4Ω terminals, and 8Ω speakers connect to 0Ω and 8Ω terminals.

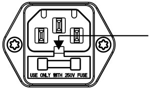
AC voltage selector switch: AC input power voltage switching

100–120V (set selector switch to 115) 220–240V (set selector switch to 230)

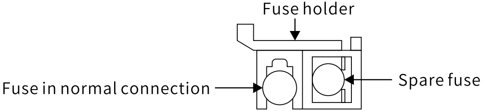
AC power input socket and fuse holder
- AC power input: Please follow the value displayed on the voltage selector switch
- Fuse: T5.0AL 250V. A spare fuse is included inside the fuse holder. When replacing the fuse, please strictly use a fuse of the same specifications.

Fuse replacement instructions

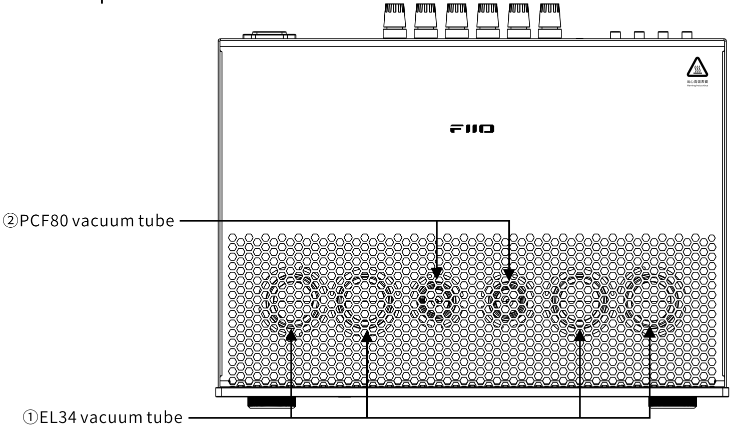
1. Before replacing the fuse, please unplug the power cable from the wall outlet.
2. Using tweezers or a screwdriver, pry the fuse holder out from the notch on the power outlet, as shown below:
3. Inside the fuse holder, there is a spare fuse. Replace the damaged, normally connected fuse with the spare fuse, as shown below:
4. After replacing the fuse, reinstall the fuse holder into the power socket in its original position, ensuring it is fully seated.



Use tweezers or a screwdriver to pry open the fuse holder from this notch



Top panel description



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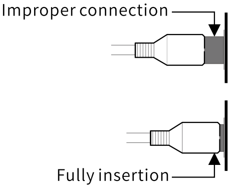
Device connection instructions

1. Use RCA audio cables to connect the INPUT of this device to the LINE OUT of the audio source device. Ensure the left/right channels are not reversed.
2. Use a 3.5mm audio cable to connect the TRIGGER IN of this device to the TRIGGER OUT of the audio source device for synchronized power on/off.
3. Use banana plug cables to connect the SPEAKER OUT terminals of this device to your speakers’ corresponding ports. Ensure the polarities are correctly connected: Connect the 0Ω terminal to the speaker’s negative terminal, and the speaker’s positive terminal to either the 4Ω or 8Ω terminal of this device based on the actual impedance.
4. Connect the power cable to an electrical outlet. Notes: Do not insert the power cable until all audio cables are connected. Before inserting a power cable, please ensure the input voltage matches the value displayed on the voltage selector switch.

Cautions

1. Always refer to the manuals of connected devices.
2. Do not insert the power cable until all audio cables are connected.
3. R indicates the right channel; L indicates the left channel.
4. Please ensure all plugs and connectors are firmly inserted. Improper connections may cause noise, degraded performance, or device damage.
5. Please avoid bundling audio cables with power or speaker cables, as this may negatively affect sound quality.

Note: Do not reverse positive and negative polarities. Do not swap left and right channels.



Power on instructions

Before turning on the device, please double-check that all connections are correct, the power supply voltage is normal, and the voltage selector switch is set properly.
Transportation may cause the vacuum tube to become misaligned. To avoid affecting sound quality, please realign the vacuum tube according to the replacement instructions before use.

1. Turn on the power switch, and the input indicator will light up in red. Ensure the volume is at the minimum level.
2. Long press the standby button and the RGB indicator light will display the power-on light effect. Once the effect is completed, the VU meter’s backlight will turn on, indicating that the input channel is ready. The vacuum tubes require about 30 seconds to warm up before the device can function normally. If the working status indicator light remains off, it indicates an internal malfunction. Please immediately turn off the power and contact the local dealer or our company.
3. After the audio source is functioning properly, select the correct input channel and adjust the volume to a suitable level via the volume knob to enjoy high-quality music.

Friendly reminders

◆ Power-on sequence: Audio source → Power amplifier

◆ Power-off sequence: Power amplifier → Audio source

Cautions

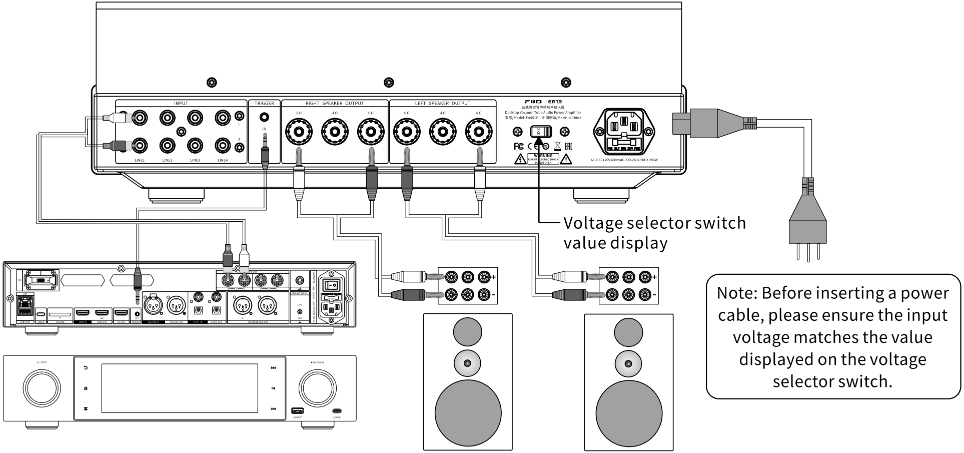
◆ Do not plug or unplug signal cables or speaker cables while the audio system is operating, as this may damage the unit or other devices.

◆ After turning off the power, wait at least 2 minutes before turning it back on to avoid damaging the vacuum tubes.

◆ When using the tube amplifier, please avoid placing devices that generate interference, such as routers or mobile phones, nearby to prevent interference from introducing background noise that affects the actual listening experience.

Voltage selection instructions

Before powering on the device, please be sure to check that the voltage selector switch matches your local power supply voltage.



Voltage selector switch value display

Note: Before inserting a power cable, please ensure the input voltage matches the value displayed on the voltage selector switch.

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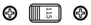
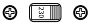
1. For a power supply voltage of 100–120V, the selector switch must be set to 115. For a power supply voltage of 220–240V, the selector switch must be set to 230, as shown below:



100–120V power supply selection



220–240V power supply selection

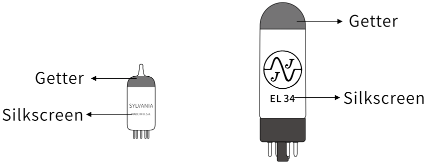
2. Under normal circumstances, the voltage selector switch is preset at the factory. If you need to change the voltage, please adjust the voltage selector switch to the needed voltage position.

Note: When the selector switch is set to 115, do not input 220V or higher voltage under any circumstances.

Vacuum tube appearance instructions

1. The inner wall and tip of the vacuum tube may show black or mirror-like marks caused by getter coating. These marks may change color over time with usage.
2. Due to the age and storage conditions of the vacuum tubes, some silkscreen labels may be incomplete.

Neither of these conditions affects the product’s quality or the vacuum tube’s lifespan.



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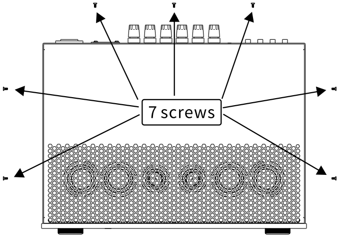
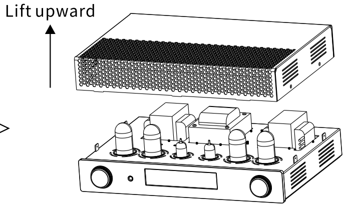
Vacuum tube replacement instructions

After prolonged use, if vacuum tubes become aged or damaged, they should be replaced. Please follow the steps below:

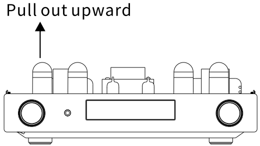
1. Before replacing the vacuum tubes, please power off the device and disconnect the power cable and all audio cables. Let the device sit for 30 minutes to allow the tubes to cool down and avoid the risk of electric shocks or burns.
2. Use the screwdriver included in the accessory kit to remove the screws securing the top cover of the device, as shown below.
3. Lift the top cover vertically and place it in a safe area. Now the tube replacement can proceed.
4. Carefully pull the vacuum tube to be replaced straight up. Do not apply excessive force or bump the protective wall of the tube, as this may damage the tube and cause injury from broken glass.
5. Align the locating pins of the new vacuum tube with the alignment notches, and then insert it downward vertically. Ensure the new tube is inserted in place and level with the other of the same type.
6. Once the replacement is completed, carefully lower the top cover vertically over the tubes and re-tighten the screws. Reconnect the cables as shown in the connection diagram and continue enjoying your music.



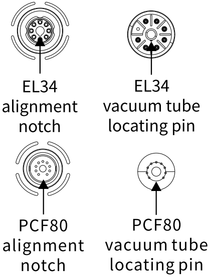
①Use a screwdriver to remove the
seven screws securing the top cover.

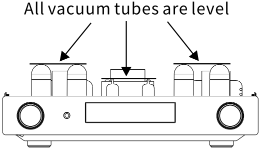


②Lift the top cover upward vertically.

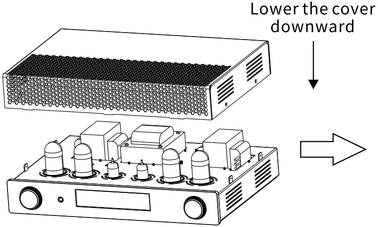


③Pull the vacuum tube to be replaced upward vertically.

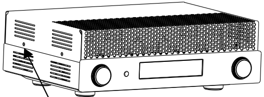




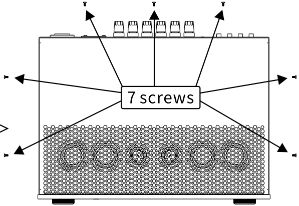
④Align the locating pins of the new tube with the alignment notches, and then insert the tube vertically downward until it is level with the other of the same type.



⑤Lower the top cover vertically over the vacuum tubes.



⑥Note: When reinstalling the top cover, make sure your fingers are not caught between the top and bottom panels to prevent injury.



⑦Use a screwdriver to tighten the seven screws securing the top cover.

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Cautions

◆ Before replacing the vacuum tubes, please power off the device and disconnect the power cable and all audio cables. Let the device sit for 30 minutes to allow the tubes to cool down and avoid the risk of electric shocks or burns.

◆ Do not apply excessive force or bump the protective wall of the tube, as this may damage the tube and cause injury from broken glass.

◆ Ensure the new tube is inserted in place and is level with the other of the same type.

◆ When reinstalling the top cover, make sure your fingers are not caught between the top and bottom panels to prevent injury.

Notes and precautions

1. Never connect the device to a voltage that does not match the voltage selection switch! When connecting the power supply, please always double-check that the input voltage matches the voltage setting on the device’ s voltage selection switch. Improper use, such as voltage mismatch, may damage the core vacuum tube components.
2. When connecting speakers, ensure proper polarity separation to avoid short circuits that could damage the device.
3. If the device will not be used for a long period, please unplug the power cable from the AC outlet.
4. The surface temperature of this device may become elevated during prolonged operation. Exercise caution regarding high temperatures and avoid touching the unit! Excessive internal temperatures caused by inadequate ventilation may lead to device failure or fire hazards. Ensure ventilation openings remain unobstructed during use and position the device in a well-ventilated area.
5. Ensure the device operates under normal load conditions. Never run the device under no-load conditions, and strictly prohibit short-circuiting the output terminals to prevent device damage or personal injury.
6. Do not attempt any internal repairs or adjustments, nor touch any internal components. Risk Warning: This may cause device damage or electric shock hazards!
7. The company shall not be held liable for any performance degradation or damage resulting from internal modifications. All maintenance should be carried out only by qualified personnel.
8. Keep the device away from water droplets or splashes. Do not place items filled with liquids, such as vases, near the device to prevent electric shock hazards or damage.
9. Periodically clean the front panel and exterior with a soft cloth. Please do not use any thinner, alcohol, or other volatile liquids to wipe the surface, as these may damage the finish, cause staining, or erase markings. Please do not use insecticides near the device.
10. Carrying precautions: The device is heavy. Please lift steadily and place gently to avoid bumps or damage to it.

Disclaimer

Distinguished customers,
The tube amplifiers manufactured and sold by our company strictly comply with relevant production standards and quality control procedures. We hereby make the following statement:

1. Product usage instructions

This tube amplifier is subject to specific usage conditions and environmental requirements. Please operate strictly in accordance with the Quick Start Guide, including but not limited to the correct power-on/off sequence, connecting compatible audio devices, and using the specified power supply. The company shall not be held liable for any damage, performance degradation, or other issues caused by failure to follow the Quick Start Guide, and will not provide free repair or replacement in such cases.
Tube amplifiers generate a certain amount of heat during use, which is a normal phenomenon. Please ensure the device is placed in a well-ventilated area and avoid use in high-temperature, humid, or flammable environments. The company shall not be held liable for any safety incidents (such as fire or electric shock) or product damage caused by improper placement or environmental conditions.

2. Product performance and application scope

The performance specifications of this tube amplifier are clearly stated in the Quick Start Guide. The sound quality may be affected by various factors, such as audio sources, connected devices, and the usage environment. The company does not guarantee that the product will achieve the user’ s desired sound performance in all scenarios.
This tube amplifier is primarily designed for audio playback. The company does not recommend or support any other non-designated uses. The company shall not be held liable for any issues resulting from improper usage.

3. Tube replacement

It is recommended using official genuine tubes of the same model. Different models have varying design parameters, which can affect sound quality and may potentially damage the device.

4. After-sales and warranty

The company provides a limited warranty for a specified period. The specific warranty terms are subject to the product’ s Quick Start Guide or the purchase agreement. If the user disassembles or modifies the device without authorization, or uses unauthorized accessories or components, the warranty will be void, and the company shall not be held liable for any resulting maintenance issues.
The company shall not be held liable for any damage caused by force majeure events (natural disasters, war, etc.), and will not provide repair or replacement services under such circumstances.
By purchasing and using this tube amplifier, you are deemed to have agreed to the terms and conditions of this disclaimer.

Device maintenance

- Read the Quick Start Guide—Before using the device, please carefully read the safety instructions and Quick Start Guide to ensure safe and proper operation.
- Keep the Quick Start Guide—Please retain the safety instructions and Quick Start Guide for future reference.
- Warning labels—Please do not remove or erase the product serial number or any labels.
- Operating procedures—Please strictly follow the operating or usage steps as outlined in the Quick Start Guide.
- Use of accessories—When using accessories not provided by the manufacturer (power cables, fuses, etc.), please ensure they meet the product' s safety requirements, as improper use may pose safety risks.
- Placement—Please do not place this product on an unstable cart, shelf, tripod, wall mount, or simple bookcase, as it may fall and cause injury to children or adults, or result in product damage.
- Power supply—This product must only be connected to the type of AC power source indicated on the product label. If you are unsure of your home power type, please consult your dealer or local power company.
- Overloaded circuits—When the outlet powering this product is also used for other electrical appliances, please ensure that the total load does not exceed the outlet' s capacity to avoid fire or electric shock.
- Maintenance services—Please do not disassemble the device or adjust internal components yourself to prevent electric shocks. Unauthorized disassembly will void the warranty.

Technical specifications

Product name	EA13 Desktop Vacuum Tube Audio Power Amplifier
Model	F4451E
Rated input	AC 100–120V 60Hz/220–240V 50Hz
Dimensions	About 430x339x145mm
Weight	About 17.7Kg
Tube specifications	EL34 vacuum tube*4, PCF80 vacuum tube*2

Note: Due to continuous improvement, every specification and design are subject to change at any time without further notice.

To learn more

1. For related video instructions of the EA13 and FAQ (Frequently Asked Questions), please scan the QR code attached.
2. To learn more about the product, please visit our website: www.fiio.com.
3. To learn more about the detailed instructions for use, please visit https://www.fiio.com/supports to download relevant documents.

EA13 FAQ

www.fiio.com

Hereby, Guangzhou FIIO Electronics Technology Co., Ltd. declares that this device is in compliance with Directive 2014/30/EU. The full text of the EU declaration of conformity is available at: www.fiio.com/doc

WEEE Directive & Product Disposal

At the end of its serviceable life, this product should not be handed as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

FCC NOTICE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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