

Silver Luna PRESTIGE

USER'S MANUAL



In order to obtain the highest possible sound reproduction quality and for the sake of your own safety, please kindly refer to the following safety guidelines and please adhere to them:

- Never place the Fezz Audio Silver Luna PRESTIGE amplifier near heat sources, such as radiators, heaters or direct sunlight. Ensure adequate ventilation and airflow.
- We also warn against exposure of the amplifier to conditions such as very low temperatures and/or high humidity.
- During normal operation, the vacuum tubes radiate significant amounts of heat there is a risk of burns
- The amplifier should be plugged directly into a wall socket. If you must use an extension cord, please make sure that it has load parameters sufficient to ensure proper handling of current delivery to the device.
- When cleaning, always disconnect the Silver Luna from the power source. Use a dry, soft cloth. Do not use water or cleaning agents.
- If your amplifier starts to misbehave or to work incorrectly, if it's temperature gets too high or you start feeling smoke immediately disconnect the device from the mains.
- Due to the risk of exposure to high voltages please do not open the lid of the amplifier. ATTENTION: This warning remains in force also in a situation where the device is already disconnected from the wall outlet.
- Always replace fuses in accordance with the original, intended specification.
- Do not make repairs on your own, or adjustments beyond those as described in this manual. Execution of any unauthorized repairs or modifications of the device result in a loss of warranty.

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Thank you for your trust and for choosing the Fezz Audio Silver Luna PRESTIGE amplifier.

At times when the audio world becomes increasingly digital, Fezz Audio does not forget about analog lovers. Silver Luna is the first Polish, series produced integrated vacuum tube amplifier, which is designed for both people starting out in their audio adventure, but also for those experienced with the "vacuum tube sound" before. The Fezz brand is a team of people who are fascinated since multiple years with the world of sound in its pure, analog form, a team which adapts proven technologies so as to meet the expectations of a contemporary audience.

We invite you to familiarize yourself with a clear sound, characterized by excellent separation, imaging and dynamics. Let the wide sound scene take on a new, multiple depths dimension.

THE TUBE AMPLIFIER

Many of us, when looking upon audio amplifiers of decades ago, keep repeating a slogan, like a mantra: "Such things are not manufactured anymore". When we finally manage to acquire such a amplifier, we treat it in a very unique way. We look for the best possible location to present it, we adore the moment that we switch it on and we shall certainly not fail to mention in passing about this new "treasure" of ours to any of our visiting guests. Whatever we do is all underlined by a great feeling of fondness to those times long past. Why is this happening? The most likely reason is that it is a vacuum tube amplifier. An amplifier with a specific warmth to its sound, with a natural ambience, timber. We also do know that the 'Big Names' have created their memorable music albums using vacuum tubes. When one explores this topic in depth, it turns out that many a prominent musician, till this present day, plays back music and creates music using solely analog amplifiers, and they justify their decision with just a few words: "The vacuum tube simply sounds better, it has a soul and an ambience".

Once that we purchase such an amplifier, set it up, hook it up, a kind of hesitance kicks in ... "Gee, this equipment is 40 years old". Will it continue to be reliable? We are aware that there is contemporary production of vacuum tube amplifiers out there, but these amplifiers are very expensive. Thus, in praxis, they are exclusively destined for the audiophile circles.

And it is at this very point where the unique offering of Fezz Audio comes into play. A unique vacuum tube sound, made available at a price point similar to a new, "transistor" based device as sourced from a market.

UNPACKING

Please kindly check if the packaging of the Silver Luna amplifier has not been damaged during transit. If you find any damages, please immediately contact your dealer. Remove the amplifier and accessories from the packaging. Make sure that the content is not damaged.



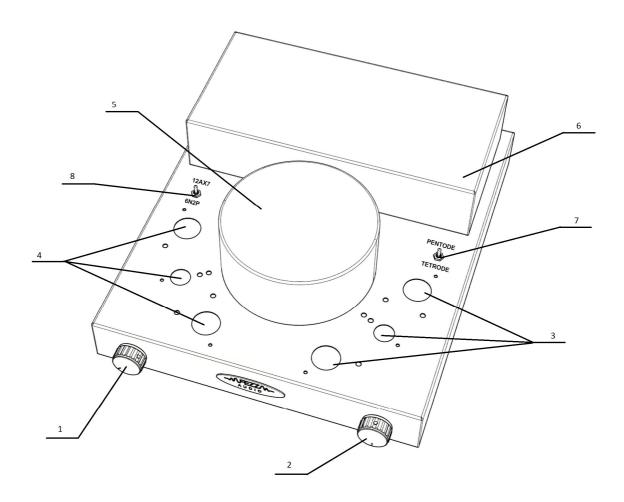
Do not connect the device to the power supply if it has visible signs of damage on it.

Please do not dispose of the original packaging, so as to facilitate possible shipment of the device in the future.

CONTENTS OF THE PACKAGE

- The package should contain:
- The Fezz AUDIO Silver Luna PRESTIGE tube amplifier
- Vacuum tubes of type EL34, produced by Electro-Harmonix 4 pcs.
- Vacuum tubes of type 12AX7, produced by Electro-Harmonix 2 pcs.
- Vacuum tubes of type 6N2P EW, produced by Voskhod 2 pcs
- A power cord
- A Users Manual

DESCRIPTION OF THE ELEMENTS OF THE AMPLIFIER

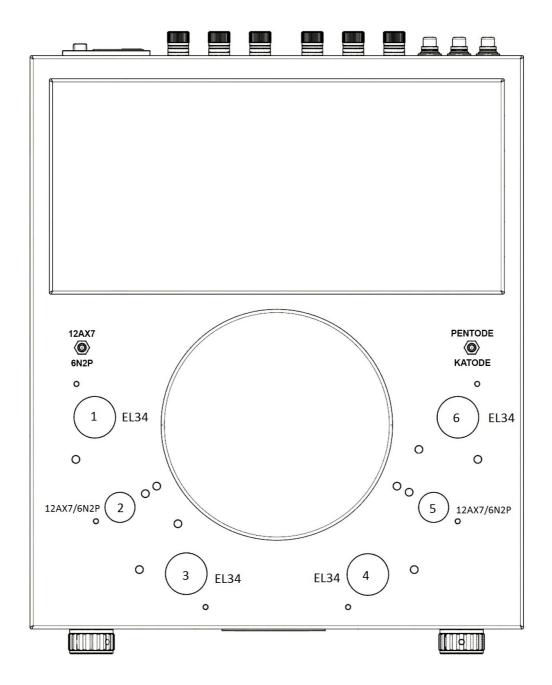


- 1) Volume control
- 2) Input Source Selector
- 3) Sockets for the right channel vacuum tubes
- 4) Sockets for the left channel vacuum tubes
- 5) The housing for the power supply transformer
- 6) The housing for the output transformers
- 7) Power tubes operation mode selector switch
- 8) Tube type selector switch

INSTALLATION OF THE VACUUM TUBES

Place the Silver Luna amplifier on a stable surface. Carefully remove the vacuum tubes from their packaging and install them in the appropriate sockets, as shown below, and adhering to the numbering scheme as identified on the packaging. Please pay attention to the diameter of the socket and to the appropriate orientation of the vacuum tube pins.

The pins in the base of each of the vacuum tubes are "coded", and this has the result that the insertion of the vacuum tube into the socket is possible only in one correct and appropriate orientation. If, whilst inserting the vacuum tube you sense resistance, and you can not push the tube into the socket, please check the orientation of its pins, rotate the tube to the correct position and try again.





WARNING! Excessive force may damage the socket and/or the pins of the vacuum tube.

WHERE TO PLACE YOUR AMPLIFIER

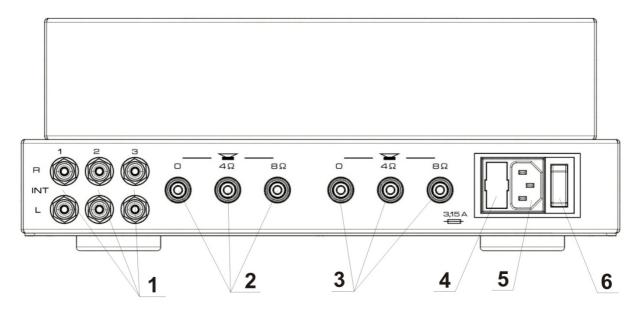
Due to the presence of high temperatures during normal operation of the vacuum tubes, the location that you pick to place your amplifier should ensure ample ventilation, a free flow of air.

Please maintain at least 10 cm clearance between the housing of the amplifier, together with the vacuum tubes, and other devices or elements of the interior.

The sound quality may be degraded as a result of vibrations. Therefore we recommended to place the amplifier on a flat and stable surface.



ATTENTION - Never place the Fezz Audio Silver Luna PRESTIGE amplifier in the vicinity of sources that produce large amounts of heat.



- 1) Source signal inputs
- 2) Speaker outputs for the left channel
- 3) Speaker outputs for the right channel
- 4) Socket for the main fuse
- 5) The IEC power supply cord socket
- 6) Mains switch

The figure above shows the rear panel view of the Fezz Audio Silver Luna PRESTIGE tube amplifier, together with a description of the inputs and outputs allowing for connection of the other elements of your audio system.



WARNING! - To avoid electrostatic shock to the components of the amplifier, please touch a grounded conductive surface before making any connections.

Any and all connections must be made whilst the device is disconnected from the mains power supply. Before making any such connections, make sure that the amplifier is switched off.

HOOK-UP OF THE POWER SUPPLY CORD

Make sure that the amplifier is switched off. Connect the power cord to the IEC socket on the rear panel of the amplifier.

The amplifier is designed to operate at a rated voltage of 230V / 50Hz. Connecting the device to a mains network with incorrect parameters can lead to damage that is not covered by manufacturers warranty

HOOK-UP OF THE SIGNAL SOURCES

Connect the signal source to the amplifier inputs IN1, IN2 or IN3. Select the source of input signal by rotating the input selector located on the front panel of the amplifier. In order to achieve the highest sound quality, use only high-quality RCA cables. Pay attention to the proper connection and distinction of the right (R) and the left (L) channels.



WARNING! To connect a turntable, you need to use an external phono MC/MM preamplifier or a turntable with a built-in preamplifier.

HOOK-UP OF THE SPEAKERS

Check the impedance of the speaker set that you posses. Connect the speaker cable to the appropriate terminals on the rear panel of the amplifier. Depending on the impedance of the speakers that you posses, connect it to the terminal marked either 4Ω or 8Ω . If your speaker impedance is 6Ω - connect the speaker wire to the terminal 8Ω .

FIRST POWER-UP AND GETTING STARTED

Make sure that all of your wiring is connected in accordance with the information as provided above on page 9 of this manual.

Select the source of signal using the rotary selector switch located on the front panel.

Set the volume control to minimum. Turn on the mains power of the Silver Luna amplifier – the vacuum tubes shall begin to glow. Make sure that the sound source is turned on, playing, and then gradually increase the volume level by turning the potentiometer.

The correct 'Switch-ON' (start-up) sequence for the individual devices:

First the Signal Source → then the Fezz Audio Silver Luna PRESTIGE amplifier.

The correct 'Switch-OFF' (shutdown) sequence for the individual devices:

First the Fezz Audio Silver Luna PRESTIGE amplifier → and then the Signal Source.

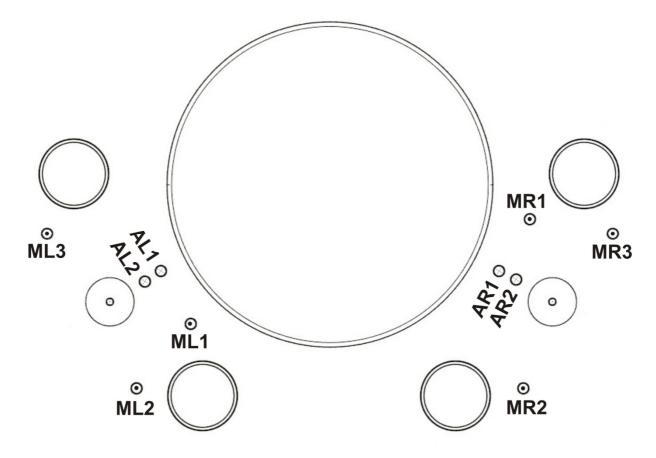
Conduct a measurement of the BIAS and, if necessary, adjust it in accordance with the instructions as presented below on page 12 of this manual.

The operation of the amplifier narrows down to adjusting the volume potentiometer VOLUME and selecting an audio signal source via rotation of the SOURCE switch.

ADJUSTMENT AND CONTROL OF THE BIAS CURRENTS _____

Setting and control of the bias is a procedure that is required after the first switch-on and after the initial burn-in period of the amplifier.

Later on, we recommend to check these parameters once a month.



Please make yourself acquainted with the locations of the measuring points:

- MR1, MR2, MR3 (for the right channel)
- ML1, ML2, ML3 (for the left channel)

and of the regulation potentiometers:

- AR1 (Sets the BIAS value for the right channel)
- AR2 (Sets the BIAS balance for the right channel)
- AL1 (Sets the BIAS value for the left channel)
- AL2 (Sets the BIAS balance for the left channel)

THE PROCEDURE FOR ADJUSTMENT OF BIAS FOR THE RIGHT CHANNEL

- 1) Use a digital multi-meter. Set it to either automatic mode, or to manual mode, to an operating measurement range of 750mV DC. Next, please measure the differential voltage between MR2 and MR3.
- 2) Adjust the balance of the BIAS by gently rotating the BIAS balance potentiometer AR2, so as to achieve a measured differential value as close as possible to 0 mV DC (+/-20mV).
- 3) Measure the actual value of the BIAS between MR1 and MR2 or MR1 and MR3.
- 4) Adjust the voltage reading using the BIAS level potentiometer AR1 to a value as close as possible to 350 mV (+/- 20mV).

THE PROCEDURE FOR ADJUSTMENT OF BIAS FOR THE LEFT CHANNEL

Similarly as described in the procedure for the right channel, conduct the adjustments using potentiometers AL1 AL2 and the measurement points ML1, ML2 and ML3.

REPLACEMENT OF VACUUM TUBES _____

In the event that a need arises to replace the vacuum tubes, either the power tubes, or the control tubes, the following guidelines must be adhered to:

- The KT34 power vacuum tubes may be replaced only with the same type, or with another type, but such that is a direct equivalent.
- You can replace the 12AX7 control tubes only with the same type, or with another

type, but such that is their direct equivalent., subject to setting the correct position of the 12AX7/6N2P vacuum tube type selector switch in the appropriate position, as per type of tube being used.

POWER VACUUM TUBE REPLACEMENT PROCEDURE

- 1) Using a multi-meter, measure the voltage between the test points ML1 and ML3. Adjust the position of the AL2 potentiometer so as to achieve the MINIMUM value of voltage between the test points.
- 2) Similarly, measure the voltage between points MR1 and MR3. Adjust the position of the AR2 potentiometer so as to achieve the MINIMUM value of voltage.
- 3) Disconnect the amplifier from the mains.
- 4) Remove the currently installed tubes, from their respective sockets: 1,3,4,6. Plug in the new vacuum tubes in these sockets.
- 5) Connect the power plug back to the power line socket and perform the BIAS adjustment procedure as described on page 12 of this manual.
- 6) Please remember that it is necessary to check and possibly re-adjust the BIAS, as may be required, after every exchange of old tubes for new tubes, and then, it is necessary to re-check the BIAS periodically during the burn-in period of the new tubes.

THE PROCEDURE FOR REPLACING THE 12AX7 CONTROL TUBE FOR A NEW DIRECT EQUIVALENT

- 1) Disconnect the amplifier from the mains socket, the power supply network.
- 2) Remove the currently installed tubes from their respective sockets: 2 and 5. Plug in the new replacement vacuum tubes in these sockets.

THE PROCEDURE FOR REPLACING THE 12AX7 CONTROL TUBE FOR A 6N2P TUBE TYPE, OR VICE VERSA

1) Disconnect the amplifier from the mains socket, the power supply network.

- 2) Remove the currently installed tubes from their respective sockets: 2 and 5. Plug in the new replacement vacuum tubes in these sockets.
- 3) Set the 12AX7 / 6N2P tube type selector switch ((8), Page 6) to the position which is correct for the chosen type of replacement tube.



WARNING! Execution of the above listed procedure, while the device is not disconnected from the mains power, may result in permanent DAMAGE of the device.



WARNING! Selection of the wrong position of the 12AX7 / 6N2P tube type selector switch may result in permanent damage to the tube and/or of the device.

CHANGING THE OPERATION MODE OF THE AMPLIFIER _____

The Fezz Audio Silver Luna PRESTIGE amplifier allows you to change the mode of operation of the output power vacuum tubes, selecting between the tetrode and pentode modes of operation. This functionally allows the user to additionally modify the texture of the resulting sound, as per his listening preference.

To execute such a change in the mode of operation, please follow these guidelines:

- 4) Disconnect the amplifier from the mains power socket.
- 5) Set the power tubes operation mode selector switch position ((7) page 6) as per chosen preference.



WARNING! Execution of the above listed procedure, while the device is not disconnected from the mains power, may result in permanent DAMAGE of the device.

Any tube amplifier requires an initial pre-heating (or "burn-in") period, in order so that it achieves its full sonic potential. This is due to the presence of residual polarization of dielectric elements and due to a necessary stabilization of working parameters of the vacuum tubes. The stabilization of the electrical parameters of the system occurs in a natural process whilst playing music through your audio system.

A preliminary degree of pre-heating of the amplifier is reached after about 10 hours of quiet music playback.

The full sonic capabilities shall stabilize and unfold within a time-span ranging from 40 to 60 hours of music reproduction at a moderate volume levels.

In the initial period of operation of the amplifier it is advisable to avoid short-term operation periods of the amplifier. Once activated, it should remain operational for a period of about 4-6 hours.



WARNING! After the "burn-in" period, it is necessary to check, readjust the BIAS values.

TECHNICAL DATA _____

Type: Stereo power amplifier

Model: Silver Luna

Output power: 2x 35W

Circuit architecture Push-Pull, class AB1

Output Impedance: $4\Omega / 8\Omega$

Input connectors: 3x RCA

THD distortion: < 1%

Frequency response: 15Hz - 77kHz (at -3dB)

Power consumption: 150W

Mains fuse: 3,15A T / delayed

Weight: 15,3 kg

Dimensions: 400 x 320 x 165mm

Tube types: 4x EL34 (or similar) / 2x ECC83 (or similar)

LIMITED WARRANTY CONDITIONS

The manufacturer, the company Fezz Audio warrants that this Silver Luna PRESTIGE amplifier is free from defects in materials and in workmanship.

This warranty is valid for a period of 24 months from the date of purchase.

During the warranty period, any defects will be repaired free of charge, after showing the proof of purchase (receipt), in its original form.

You are responsible for transporting the equipment from the place of use to the dealer, distributor, national or international.

The warranty applies only to the original purchaser. The warranty is non-transferrable to subsequent owners.

This guarantee is subject to the following limitations and will be cancelled, void and null in case of:

- Use of the product that is not in accordance with this Users Guide
- Mechanical damage by the user
- Damage caused by electrical discharges (storms)
- Breach of guarantee seals, unauthorized use, adjustments or modifications
- Carelessness or damage resulting from improper transportation

The company Fezz Audio reserves the right to amend the designs of its products and their specifications without prior notice to the previous buyers.

Fezz Audio

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