fezz/



Mira Ceti 300 B

Mono Power Amplifer

USER'S MANUAL



- Never place the Fezz Audio Mira Ceti 300B mono power amplifier near heat sources, such as radiators, heaters or direct sunlight. Ensure adequate ventilation and airflow
- We also warn against exposure of the power 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 power 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 Titania power amplifier from the power source. Usea dry, soft cloth. Do not use water or cleaning agents.
- If your power 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 power 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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INTRODUCTION

Thank you for your trust and for choosing the Fezz Audio Mira Ceti 300B MONO power amplifier.

At times when the audio world becomes increasingly digital, Fezz Audio does not forget about analog lovers. Titania power amplifier is the Polish, series produced vacuum tube power amplifier, which is designed for all music listeners. The Fezz brand is a team of people who are fascinated since multiple years with theworld 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.

VACUUM TUBE POWER 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 finalny 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 backmusic 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.

INSTALLATION OF THE DEVICE_____

UNPACKING

Please kindly check if the packaging of the Mira Ceti 300B MONO power amplifier has not been damaged during transit. If you find any damages, please immediately contact your dealer. Remove the power amplifier and accessories from the packaging. Make sure that the content is not damaged.



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

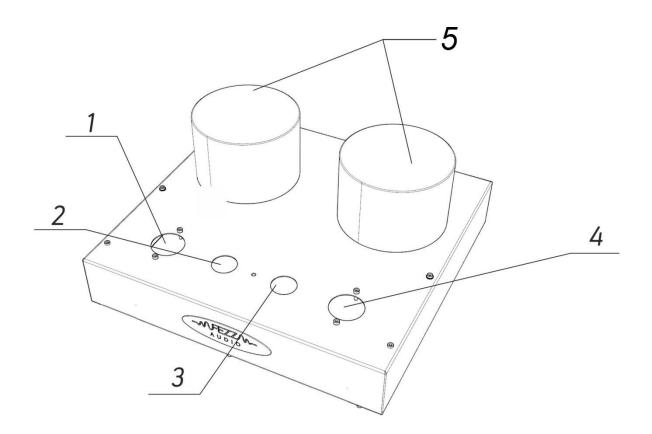
CONTENTS OF THE PACKAGE

The package should contain:

- Fezz Audio Mira Ceti 300B vacuum tube MONO power amplifier
- vacuum tube of type 300B Electro Harmonix Gold 2 pcs.
- vacuum tube of type 6SN7 Electro Harmonix 2 pcs.
- power cord
- user's manual
- cotton gloves
- optional: vacuum tube protective cage

If any of the above items are missing in Your package, contact your dealer immediately.

DESCRIPTION OF ELEMENTS OF THE POWER AMPLIFIER



- 1,4) 300B power tubes socket
- 2,3) 6SN7 driver tube socket
- 5) housing for the output transformers

INSTALLATION OF THE VACUUM TUBES

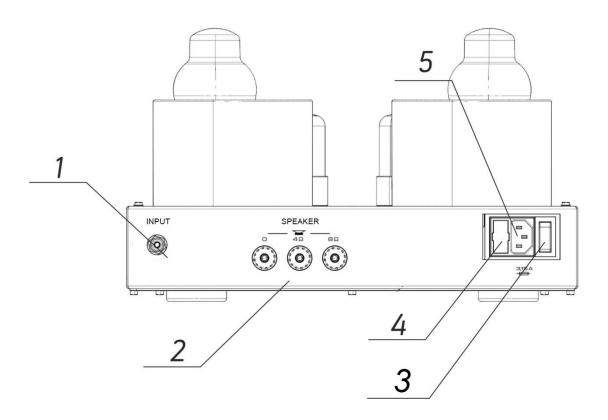
Place the Mira Ceti 300B power amplifier on a stable surface. Carefully remove the vacuum tubes from their packaging and install them in the appropriate sockets, as show below, and adhering to the numbering scheme as identified on the packaging. Please pay attention to the diameter of the socket and 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.

WHERE TO PLACE YOUR POWER 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.

INTERCONNECTIONS_



- 1) signal input
- 2) speakers outputs
- 3) mains switch
- 4) socket for the main fuse
- 5) IEC power supply cord socket

The figure above shows the rear panel view of the Fezz Audio Mira Ceti 300B MONO power amplifier, together with a description of the inputs and outputs allowing for connection of the other elements of your audio system.

Follow the instructions below to connect Your sound system correctly.

STEP 1 / HOOK-UP OF THE SPEAKER

Mira Ceti 300B power amplifier works only in MONO mode. You will need two devices to make it work in STEREO.

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

STEP 2 / HOOK-UP OF THE SIGNAL SOURCE

Connect the line preamplifier or variable output to the input source in the Mira Ceti 300B power amplifier (1)

In order to achieve the highest sound quality, use only high-quality RCA cables. For the best sound quality, we suggest using the Fezz FAC 01 interconnect cable dedicated for Fezz Audio vacuum tube amplifiers.

STEP 3 / HOOK-UP OF THE POWER SUPPLY CORD

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

The power 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.

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.

Turn on the mains power of the Mira Ceti 300B mono power 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 in your preamplifier.

"BURNING-IN" THE POWER AMPLIFIER

Any tube amplifier/power 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 residua 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.

REPLACEMENT OF THE VACUUM TUBES

Your amplifier is equpped with automatic bias module. It's necessary to use vacuum tubes that have previously been pre-selected and paired up in quads or pairs.

OPTIONAL EQUIPMENT		

VACUUM TUBE PROTECTIVE CAGE

The following picture show the correct positioning of the optional protective cage for the tubes.

TROUBLE-SHOOTING GUIDE

If your amplifier does not work as it is supposed to, it is fairly easy to diagnose and remedy some of the common malfunctions, by following procedures as outlined in this following.

THE PROBLEM	PROBABLE REASON	THE SOLUTION
After turning the power switch to the ON	A blown fuse	Please exchange to faulty fuse to a new one
position, the amplifier does not switch on.		(3,15A T), within the fuse holder as depicted
		with index 4 on page 8 of this user's manual.
	An improper connection of the mains cable	Please check if the plugs of the mains cable
		are properly inserted into the electrical
		mains socket and to the socket as depicted
		with index 5 on page 8 of this user's manual.
The sound produced by the amplifier is	An improper placement of the vacuum	Switch off the amplifier. Wait until the
distorted. A hum or pops have appeared	tubes in the sockets	vacuum tubes cool down. Check for proper
and are coming from one of the channels.		placement of vacuum tubes in their sockets.
		If necessary – correct their orientation.
	One of the driver tubes (6SN7) has lost its	Switch off the amplifier. Wait until the
	nominal working parameters	vacuum tubes cool down. Exchange the
		positions of the driver tubes between
		channels. Turn on the amplifier. If the
		disturbing sounds have moved to the other
		channel, inform Your local Fezz Audio dealer
		about tube which need to be replaced.
	One of the Power tubes (300B) has lost its	Switch off the amplifier. Wait until the
	nominal working parameters	vacuum tubes cool down. Exchange the
		positions of the power tubes between
		channels. Turn on the amplifier. If the
		disturbing sounds have moved to the other
		channel, inform Your local Fezz Audio dealer
		about tube which need to be replaced

If You have verified the aforementioned situations, and your problem still persists, please contact Your local Fezz Audio dealer.

TECHNICAL DATA____

Type: vacuum tube power amplifier

Model: Mira Ceti 300b Mono Power Amplifier

Output power: 15W

Circuit architecture: Parallel Single Ended, A-class

Speakers impedance: $4\Omega/8\Omega$

Inputs: 1x RCA

Harmonic distortion THD: <0,1%

Frequency response: 12Hz-60kHz (-3dB)

Power consumption: 115W

AC fuse: 3,15A T Net Weight: 13kg

Dimensions (width x depth x height): 340x360x215mm

Tubes: 2x 300b, 2x 6sn7

Colour schemes: Black ice(black), Bleach(white), Big Calm(burgundy), Burning red(red)

Optional equipment: tubes protective cage







Declaration of Conformity

Manufacturer: Toroidy.pl Transformatory L. Lachowski Sp.k. (owner of Fezz Audio brand)

Address: ul. Mazowiecka 20

16-001 Księżyno

POLAND

I declare that the product:

Brand: Fezz Audio

Model: Mira Ceti 300B MONO Power amplifier

complies with the following European Union Council Directives and Standards relating to electromagnetic compatibility (EMC Directive 2014/30/EU) and the low voltage Directive (2014/35/EU).

This declaration of conformity is the result of an examination carried out in accordance with European Standards for **EN 60065:2002+A2:2010+A12:2011+A11:2008** for low voltage, as laid down in article 10 of the EMC Directive.

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Księżyno 3.01.2022

Lech Lachowski

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