



CIRCLE LABS

Stereo / mono power amplifier M500



USER MANUAL

www.circlelabs.eu



CAUTION! RISK OF ELECTRIC SHOCK
DO NOT OPEN
NO USER SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



UWAGA! RYZYKO PORAŻENIA PRADEM ELEKTRYCZNYM
NIE OTWIERAĆ OBUDOWY
BRAK CZĘŚCI PODLEGAJĄCYCH NAPRAWIE PRZEZ UŻYTKOWNIKA
W CELU NAPRAWY SKIEROWAĆ SIĘ DO WYKWALIFIKOWANEGO SERWISU



ATTENTION! RISQUE DE CHOC ÉLECTRIQUE
NE PAS OUVRIR
AUCUNE PIÈCE INTERNE N'EST RÉPARABLE PAR L'UTILISATEUR
POUR LA MAINTENANCE, ADRESSEZ-VOUS A DU PERSONNEL QUALIFIÉ



ACHTUNG! GEFAHR EINES STROMSCHLAGS
ÖFFNEN SIE NICHT DAS GEHÄUSE
ES BEFINDEN SICH KEINE VOM ANWENDER ZU WARTENDEN TEILE IM GERÄT
LASSEN SIE DAS GERÄT NUR VON QUALIFIZIERTEM FACHPERSONAL REPARIEREN



This product complies with the European Directives request
and the other Commission Regulations.

Ten produkt jest zgodny z dyrektywami i regulacjami Unii Europejskiej.

Ce produit est conforme aux directives européennes
et aux autres réglementations de la Commission européenne.

Dieses Produkt entspricht den geltenden EU-Richtlinien
sowie den nationalen Gesetzen zur Umsetzung dieser Richtlinien.

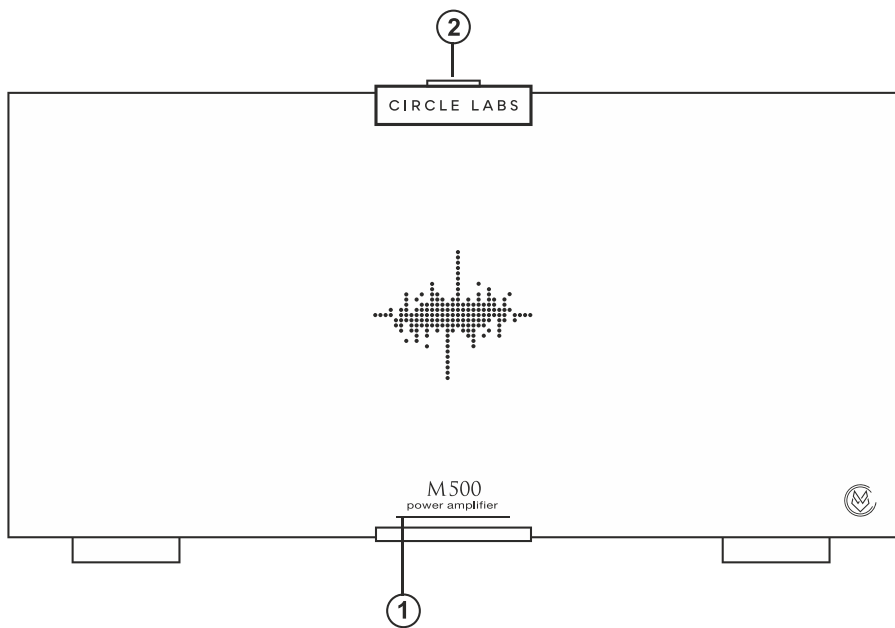


Use of WEEE symbol (crossed out waste bin symbol) means,
that this product must not be treated as household waste.
Użycie symbolu WEEE (przekreślony symbol pojemnika na śmieci) oznacza,
że niniejszy produkt nie może być traktowany jako odpad domowy.

Le symbole de poubelle sur roues barrée d'une croix indique
que les équipements électriques et électroniques
doivent être collectés et traités séparément des déchets ménagers.

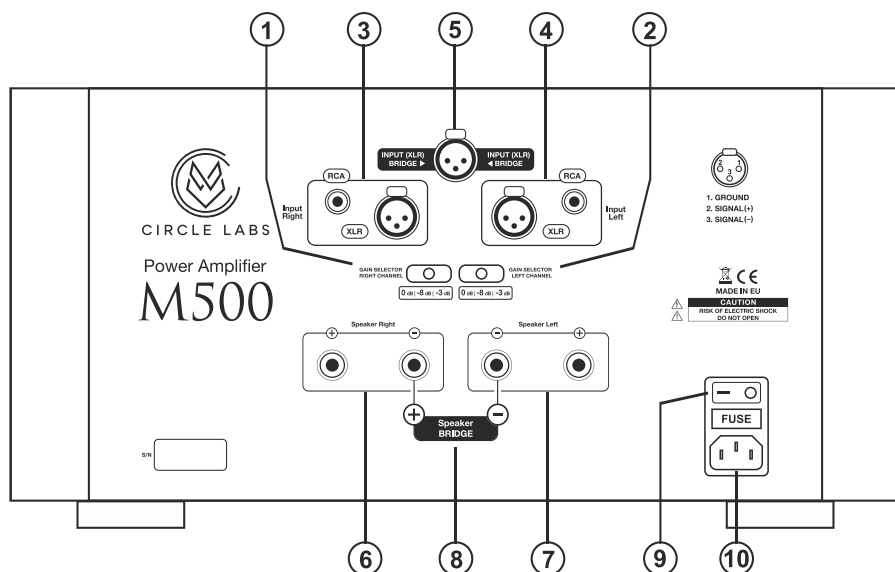
Produkte, die mit der durchgestrichenen Mülltonne gekennzeichnet sind,
dürfen nicht mit dem Hausmüll entsorgt werden.

Fig. 1



1. Standby switch
2. Operating lights

Fig. 2



1. Right regulator Gain(-0dB,-3dB,-8dB)
2. Left regulator Gain (-0dB,-3dB,-8dB)
3. Linear input RCA and XLR left channel (input impedance 47 kΩ)
4. Linear input RCA and XLR right channel (input impedance 47 kΩ)
5. Linear input XLR mono (BRIDGE - balanced endings - switch to mono mode)
6. Right speaker terminal
7. Left speaker terminal
8. Speaker terminal (BRIDGE connection - mono mode)

WARNING!

Connecting ground (GND) wires to speaker terminals (-) or (+) can cause damage to the device.

Before connecting to speaker terminals different than passive speaker sets (e.g. active bass section) contact the distributor or producer.

9. Main current switch
10. 230 V / 50 Hz power grid socket

Introduction

Thank you for choosing a Circle Labs amplifier. We hope that it fulfills all of your expectations.

We strongly encourage reading the manual thoroughly to achieve full satisfaction with the bought product.

Unpacking and turning the device on

Please make sure the package was not damaged during transportation. If so, report the damages to the store.

Contents of the packaging:

- Circle Labs M500 amplifier
- Amplifier cover

Place the amplifier on a stable platform located away from sources of heat, intense sunlight, or moisture.

The amplifier requires unobstructed ventilation. Do not cover or insert any items into the ventilation elements.

Do not place any items or devices atop the amplifier.

If the amplifier was kept in a spot with low temperatures, after unpacking, wait until it is at room temperature and make sure the device is completely dry before turning it on.

Connect the preamplifier or source with a signal regulated for RCA or XLR inputs (num. 3 & 4 fig. 2), right channel to input R, left channel to input L respectively. Plug the amplifier in. Activate the main switch on the back panel (num.9 fig.2).

Set Gain according to need. Gain regulator (num. 1, 2 fig. 2) is used for changing amplifier voltage gain (of sensitivity) in the range of 35dB(0db) through 32dB (-3db) to 26dB(-9dB).

Use the POWER button to activate the device (num.2 fig.1).

After activating the device it will go into a 30 second long introductory heating mode indicated by the blinking of lights on the front panel. During this step

do not turn the volume of the device up.

Connecting in monoblock mode

To use the M500 amplifier in balanced monoblock mode it requires connecting the balanced XLR signal from the linear input (num. 5 fig. 2) and speakers to speaker sockets (num. 8 fig. 2). According to polarization described near the sockets

IMPORTANT!!!

For the M500 power amplifier to operate correctly in monoblock mode, the audio signal from the source to the amplifier must be balanced.

WARNING!

During use, do not connect any signal cables. Switching cables can only be done when the device is turned off.

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The new device and vacuum tube sets require burn-in. This process happens when playing music. Minimal burn-in time is 200 hours.

During use, the radiators heat up. This is the standard working state of the device.

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Safety and maintenance

Do not open the housing! The device uses high currents which are dangerous for health and safety!

For need of repair please contact an authorized service provider.

Do not pour liquids onto the housing of the amplifier!

For cleaning use only a soft and dry cleaning cloth. Do not use alcohol or any other surfactants. Brass parts are covered in a layer of protective coating, we recommend cleaning without the use of any abrasives.

Clean only when the device is disconnected from the power grid.

Change used vacuum tube only for vacuum tube of the same type (ecc8100 or ecc88) selected into pairs with specified parameters. When you change the vacuum

tubes it is recommended to also change CR2032 type batteries located next to them.

Never change the vacuum tube when the device is being used.

In case of long term disuse, disconnect the device using the main power switch (num. 9 fig. 2). It is best to disconnect the device completely from the power grid.

Technical data

Input power in stereo mode: 180 W/8 Ω , 340 W/4 Ω

Input power in monoblock mode: 600 W/8 Ω , 1200 W/4 Ω

Frequency response: 2 Hz- 800 kHz (-3 dB)

Input sensitivity: 0,85 V (maximum power)

Amplification: 35 dB (GAIN selector 32 dB (-3 dB), 27 dB (-8 dB))

Input impedance: 47 k Ω

Power usage:

Stand by: < 0,1 W

On Const: 90 W

ON max: 950 W

Size (Width x Depth x Height): 430 x 360 x 230 mm

Weight (Netto): 31 kg

Main fuse in the power socket:

T10 A 5 $\times$ 20 mm (230 V version)

T20 A 5 $\times$ 20 mm (120 V version)

Fuses inside the device:

2 $\times$ T5 A, 1 $\times$ T400 mA 5 $\times$ 20 mm (230 V version)

2 $\times$ T10 A, 1 $\times$ T800 mA 5 $\times$ 20 mm (120 V version)

Warranty

Warranty conditions

a. Guarantor provides the abovementioned device which works and is of good quality if used for its purpose and under conditions specified by the manufacturer.

b. The warranty concerns malfunctions and errors in the materials, construction or manufacturing of the device.

c. The guarantor grants the user a warranty for the above-mentioned device for a period of 2 years. Malfunctions considered to be warranty will be removed free of charge by an authorized service.

- d. Repairs of the abovementioned device take place in the headquarters of the guarantor or in places designated for such purpose.
- e. Choice in the way to repair the device belongs to the guarantor.
- f. Cost of reporting the malfunction and shipping of the device, insurance and



CIRCLE LABS

CIRCLE LABS
Os. Złotej Jesieni 9/93
31-826 Kraków, POLAND

www.circlelabs.eu



Made in Poland