
Phono Equalizer Amplifier C3EQM2

	Introduction	1
1.	Safety Precautions	2
2.	Precautions for use	2
3.	Names of parts and their functions	3
4.	Installation and Connection	5
5.	How to use	7
6.	Product Specifications	9
7.	Block Diagram	9
8.	Troubleshooting	10
9.	After-sales Service	11

Thank you for purchasing our products.

We hope that this product will enhance your music and provide you with a richer musical life.

5-year quality warranty

All products will be repaired free of charge for five years if they fail under normal use in accordance with the user's manual. (excluding consumables).

The following parts are consumables and are not covered by warranty.

- Vacuum tube C3g
- Ni-MH battery

Product Contents

- Phono Equalizer Amplifier C3EQM2
- AC cord
- User's Manual

Please read this User's Manual carefully before using the product to ensure safe operation.

1. Safety Precautions



Warning

If the power cable is not handled properly, there is a danger of fire or electric shock.

- Do not use power cables other than attached.
- Do not touch the power plug with a wet hand.
- Do not place anything on the power cable.

Do not remove the top plate, bottom plate, and side cover.

- There is a risk of electric shock and serious injury because of the high voltage inside.

Stop using immediately in the following cases.

- If water or chemicals flow into the unit.
- If there are metal or flammable items inside.
- If it seems a malfunction or an abnormality.
- If there is odor or smoke.

Turn off the power, unplug the power cable, and contact your dealer or our Service Department.

Do not disassemble, repair, or modify the product in any way.

- If you need repair, please contact your dealer or our service department.

2. Precautions for use



Caution

Do not install the product in the following places

- Humid or dusty place
- Enclosed area
- Unstable place with vibration or inclination

When connecting the power cable, keep the following in mind.

- Plug the power cable securely into a robust electrical outlet.
- Make sure there are no unreasonable bends in the cable.

Connect the audio input/output cables securely without loosening them.

For daily cleaning, wipe with water and then wipe with a dry cloth.

- Do not use solvents such as thinner.

This unit is equipped with a Ni-MH battery. Please use and keep the following precautions.

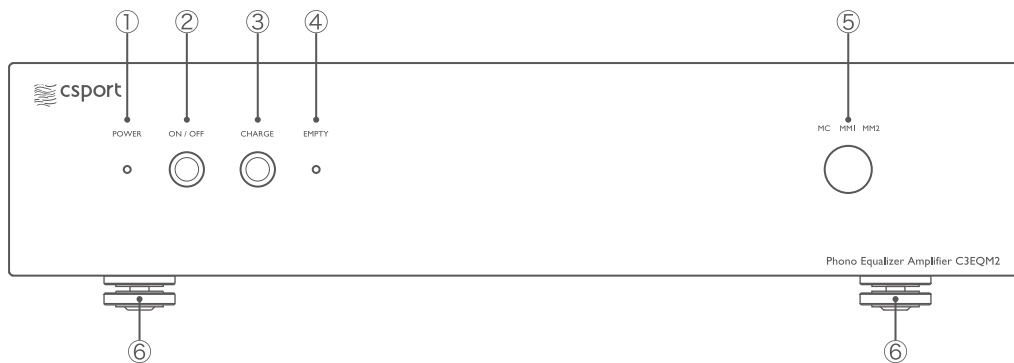
- Charge the battery before use, as it may be self-discharging.
- Turn on the power and charge the battery at least once every six months, even when not in use.
- If the battery is left for more than one year, it will become unusable due to self-discharge.

This is a dedicated RIAA phono equalizer amplifier.

- Please note that it is not suitable for other equalizer curves.

3. Names of parts and their functions

Front



① Main power indicator lamp

Indicates the status of the unit. The green indicator lights up when the main power switch on the rear panel is set to ON.

② Amplifier power button

Press the button to turn on the amplifier and turn on the orange lamp. Press the button again to stop the amplifier operation and turn off the lamp.

③ Battery manual charge button

Press the button to start charging the battery, and the green lamp will light up. When the battery is full, charging will stop automatically.

④ Low battery indicator lamp

The red indicator lights up when the battery level is low.

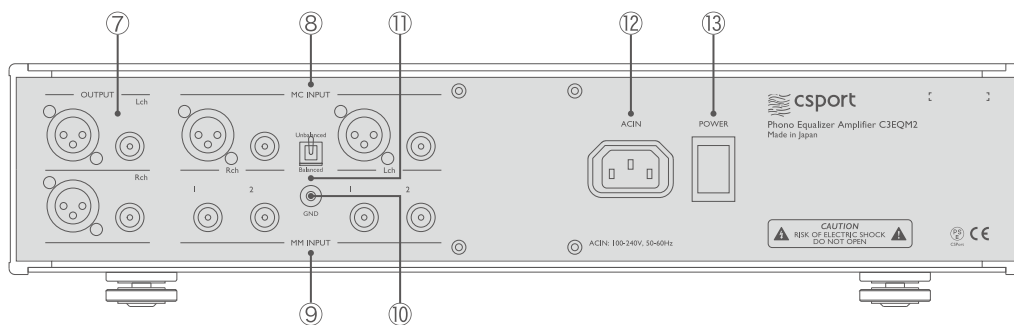
⑤ MM/MC selector switch

Turn the knob to switch between MC, MM1, and MM2 according to the cartridge to be used.

⑥ Legs

Adjust the height of the unit with the four legs. Loosen the lock nut on the upper section, and turn the lower section to adjust.

Back



⑦ Audio output terminals

- Balanced, Unbalanced [Lch, Rch]

⑧ Audio input terminals for MC cartridge

- Balanced, Unbalanced [Lch, Rch]

⑨ Audio input terminals for MM cartridge

- Unbalanced (1) (2) [Lch, Rch]

⑩ Ground terminal

Used to connect to the ground of other equipment.

⑪ Unbalanced / Balanced selector switch

Used to select unbalanced or balanced input. These cannot be used simultaneously.

⑫ AC input terminal

Used to connect AC power source. Be sure to use the supplied AC cord.

⑬ Main power switch

When the main power is turned on, the unit will automatically recharge when the battery level is low.

The safety ground of this unit is connected with the ground terminal of the AC cord. Please use an outlet with a ground wire connected. Failure to ground the unit may result in electric shock.

4. Installation and Connection

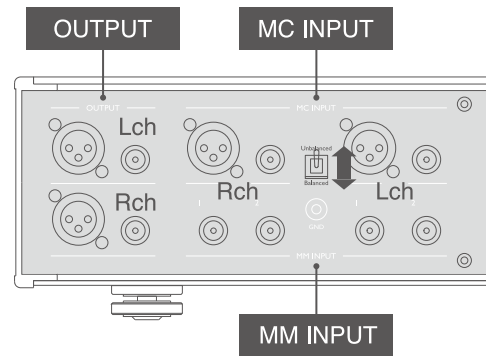
1. Adjust height

- Adjust the height with the four legs on the bottom. Loosen the lock nut of the upper section, and turn the lower section to adjust. After adjustment, tighten the lock nut to secure it.



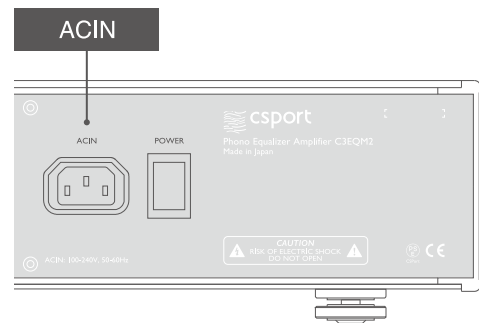
2. Connect the audio input/output cable

- Connect the audio input/output cable to the terminals on the rear panel with the main power turned off.
- Insert a short pin into the unbalance input terminal that is not being used.
- Select unbalanced or balanced with the selector switch according to the cartridge to be used.



3. Connect the AC cord

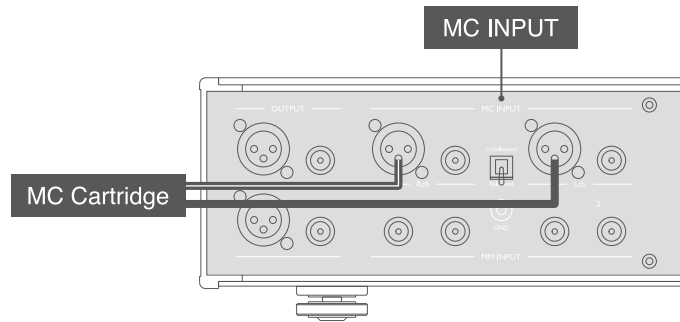
- Plug the AC cord into the AC input terminal and connect it to an outlet.



Input connections for each cartridge used

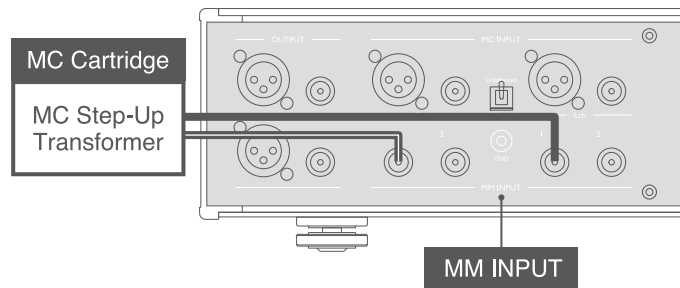
■ Use MC cartridge

The MC transformer is built-in, so it can be used as is without an MC step-up transformer. Connect to balanced or unbalanced of MC INPUT.



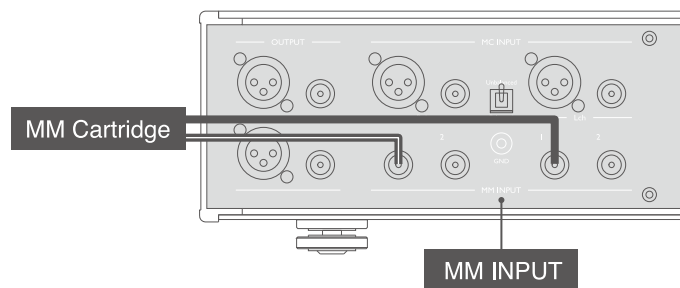
■ Use MC cartridge with second tonearm

Through MC step-up transformer (external), MC cartridges with second tonearm can be used. Connect to MM INPUT 1 or 2.



■ Use MM cartridge

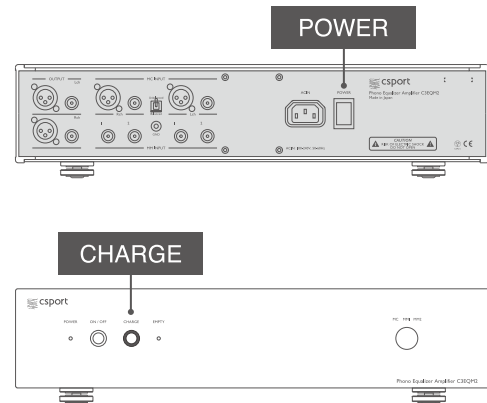
Connect to MM INPUT 1 or 2.



5. How to use

1. Charge the battery

- Since the battery is self-discharging, charge it before use.
- Turn on the power by operating the main power switch on the back.
- After that, press the battery manual charging button to start charging. The green lamp will light up, and when charging is complete, it will stop automatically and the green lamp will turn off.



2. Start using the equalizer amplifier

- Turn the MM/MC switch to select the cartridge to be used.
- Press the amplifier power button to start using. The orange lamp will light up. It takes about 30 seconds to operate because of the use of vacuum tubes.

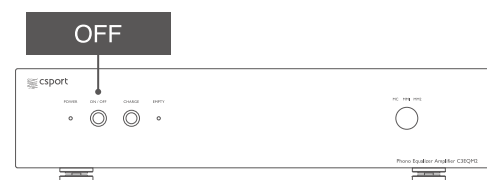


3. Stop using

- Press the amplifier power button to turn off the orange light and stop the amplifier.

The battery will be drained while the amplifier power is turned on. When not in use, please turn off the amplifier power so that the orange light is off.

- Press the battery manual charge button to charge the battery for the next use.



About the battery

This unit is equipped with a Ni-MH battery.

- Charge the battery before use, as it may be self-discharging.
- Charging time is 4 hours (with the amplifier off), and operation time from full charge is 5 hours.
- Turn on the power and charge the battery at least once every six months, even when not in use.
- If the battery is left for more than one year, it will become unusable due to self-discharge.
- Do not use any batteries other than those specified by us.

■ Charging while using the amplifier

- When the battery is low during use, the low battery indicator lamp will light up. After that, the charging lamp will light up and the unit will automatically start charging and stop when charging is complete.

■ To make the battery last longer

- Over-charging or over-discharging the battery will significantly shorten its life. (The protection circuit operates against overcharging.)
- Since batteries self-discharge, they become over-discharged if left unused for a long period of time. To prevent this, recharge the battery at least once every six months, even when the unit is not in use.

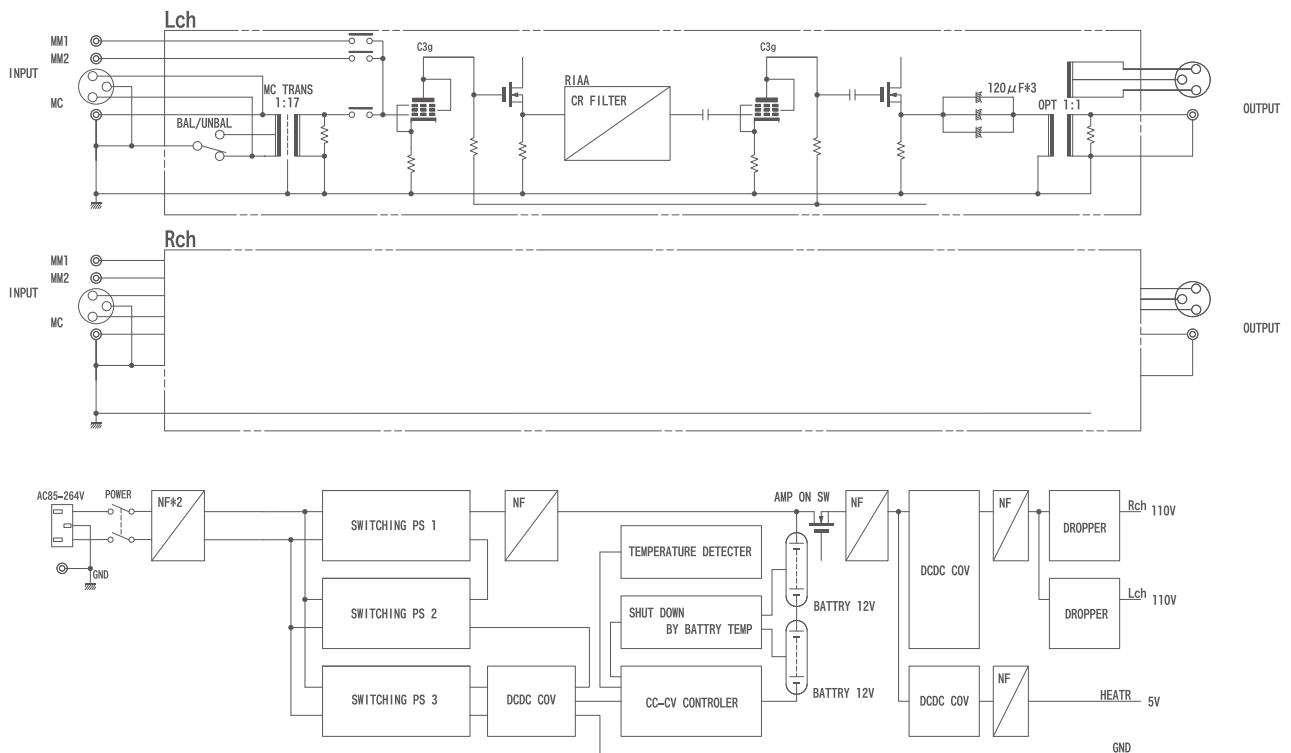
■ Battery replacement

- If you wish to replace the battery, please contact your dealer or our service department. You can also replace the battery yourself, and we will send you a new battery and instructions.

6. Product Specifications

Model	C3EQM2
Type	CR-type Vacuum tube phono equalizer amplifier
Conformity Cartridge Impedance	[MC] 3-20 Ω [MM] 47 k Ω or less
Max. Output Voltage	[MC] 5 V 1 kHz [MM] 5 V 1 kHz
THD	0.1% 1 kHz 0.76 Vrms
Gain	[MC] 63 dB [MM] 40 dB
Input Terminal	[MC] Balanced \times 1, Balanced \times 1 [MM] Unbalanced \times 2
Output Terminal	Balanced \times 1, Balanced \times 1
Output Impedance	90 Ω 1 kHz
Power Supply	AC100/120/200/240 V, 50/60 Hz
Battery Run Time	5 Hours (Optionally 9 Hours)
Charging Time	4 Hours (Optionally 8 Hours)
Power Consumption	70 W
Dimensions	430Wx90Hx400D mm
Weight	13 kg
Finishing	Anodic oxide coating

7. Block Diagram



8. Troubleshooting

Check the following when you think it may be a malfunction. If the problem persists even after these measures are taken, or if the problem is not listed, contact your dealer or our service department.

C3EQM2 not turning on

- Check that the power cable is plugged in.

The amplifier does not operate when the amplifier power button is pressed.

- The battery may be empty. Press the manual battery charge button to charge the battery. If it still does not operate, the battery needs to be replaced.

No sound, low volume

- Check that the audio input/output cable is properly connected.
- Check that the MM/MC switch and unbalance/balance switch are set properly.
- Check that the cartridge is connected properly.

9. After-sales Service

5-year quality warranty

All products will be repaired free of charge for five years if they fail under normal use in accordance with the user's manual. (excluding consumables). Please note that even within the warranty period, repair may be charged depending on the circumstances of the failure.

After expiration of warranty period

If repair is possible, the product will be repaired for a fee upon request. Repair parts will be available for 8 years after the end of production. If the product has been in use for a considerable period of time, please contact our service department in advance.

Others

The following failures will be repaired for a fee. Please note that you will be responsible for the actual cost of parts, technical fees, shipping, and travel expenses.

- If the failure is caused by improper use or usage that does not follow the user's manual.
- If the failure is caused by a device other than our product you purchased.
- If the failure is damaged by fire, earthquake, flood, lightning, rodent damage, salt damage, other pollution, or abnormal voltage.
- The product has been repaired by someone other than us.

Please note that we are unable to repair any product that has been altered.

We do not warrant any incidental damage resulting from product failure.

Second User Registration

Customers who have acquired our products as used products can take over the remaining warranty period as a second user. If you have acquired a used product, please register from the "Support" section of our website.

Contact Us

If you have any questions about the product, please contact your dealer or our service department. When requesting repair, please inform us of the serial number attached to the back of the unit and the status of the failure.

Please keep the packing materials as they will be needed for transportation of the repair.



CS Port Co., Ltd.
1-1-18 Nishinakanomachi, Toyama-city
Toyama, 939-8084, Japan
Service Department
[Office Hours] Weekdays 9:00-18:00
Phone: +81-76-461-4188
Email: service@cspport.audio
WEB: www.cspport.audio/en/inquiry