



Dedication to Performance

ELECTRONIC
Reference Amplifier

Made in Germany

Owner's Manual

Important Information!

Attention: Keep the unit away from high humidity, vibration, excessive dust and direct sunlight. Excessive heat or cold will affect the unit's functionality. The permitted operating temperature is 10°C up to 50°C. Avoid extreme variations in temperature. Do not operate the unit near other electric appliances (for instance neon light and motors). The unit should not be opened without the assistance of a qualified technician.

KETI, CE-Marking

This product is in conformity with the EMC directive and low-voltage directive. Your MC component complies with the household power and safety requirements in your area.



Warranty

MC affords a full warranty. Please pay attention to the details given in the warranty card which accompanies the unit. Warranty is only issued, if you send back the warranty card.

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A. General

1. Accessories

Your new MC Lines component comes with a multi-usable system remote control for your convenience. It can be used to control any or all of the MC product range including the preamplifier, CD player, power amplifier and integrated amplifier.

The system remote control is not included in the delivery of the MC power amplifier.

2. Placement

Please ensure that there is sufficient ventilation and flow of air on all sides of the unit. There must be a minimum space of 2 cm (approx. 1") above all MC amplifiers to allow for excessive heat to escape.

In case you wish to operate two or more amps, you can stack them, place them on shelves, or fit them under a cabinet.

Notice: Never completely cover or operate the amp in a place with insufficient flow of air. If you do, the amp may overheat.

3. Maintenance

Unplug the unit before cleaning!

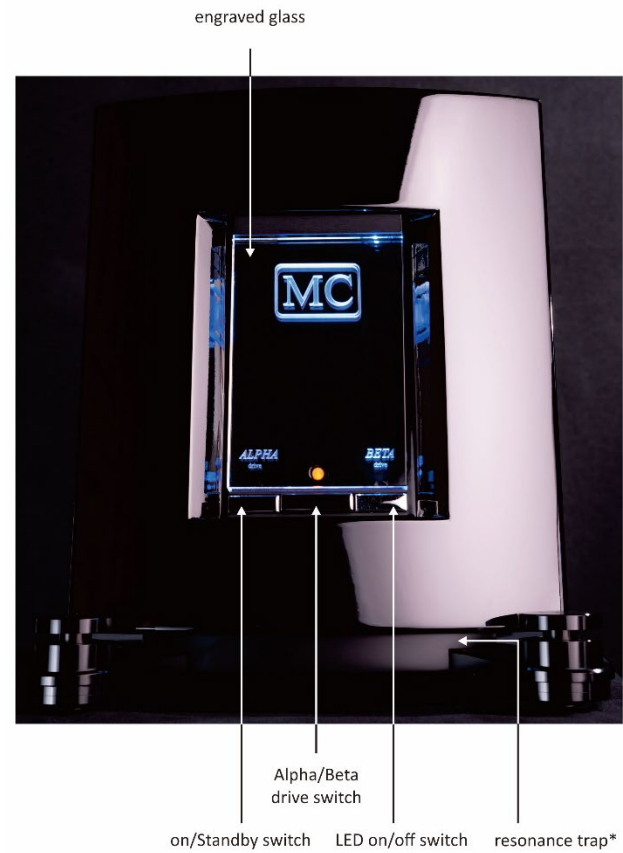
To clean the exterior surfaces of your MC unit use a dry, soft cloth. To wipe off finger prints and other grease spots, use a soft, wet cloth moistened with a mild detergent dissolved in water.

Caution: The cloth must never be dripping wet! If water or other fluids enter the cabinet, you risk to damage the unit.

Never use scouring pads, steel wool, scouring powders or harsh chemical agents, alcohol, thinners, benzine, insecticide or other volatile substances, as these will destroy the finish of the cabinet.

E. mc 811a / 833 Mono Power Amplifier

1.1 mc 811a / 833 front view



* made of 20 mm special material to absorb mechanical resonances and signal distortion.

1.2 mc 811a / 833 rear connection panel view



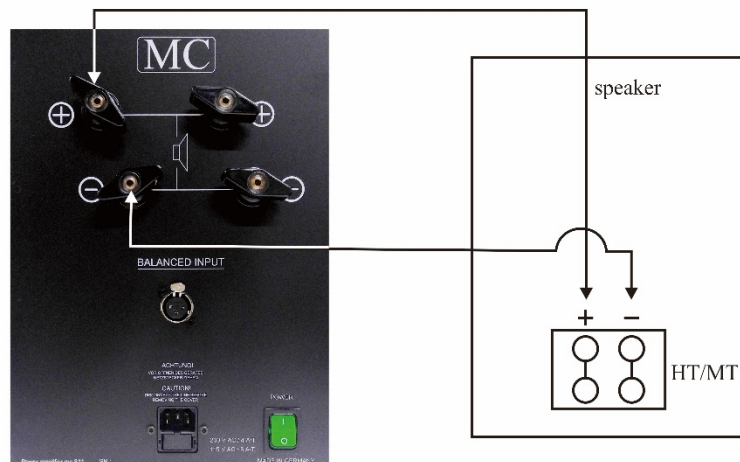
2. Standard connecting the power amplifier to the speakers

There are two pairs of speaker terminals on the back of the amplifier. Two speakers can be connected to the amplifier.

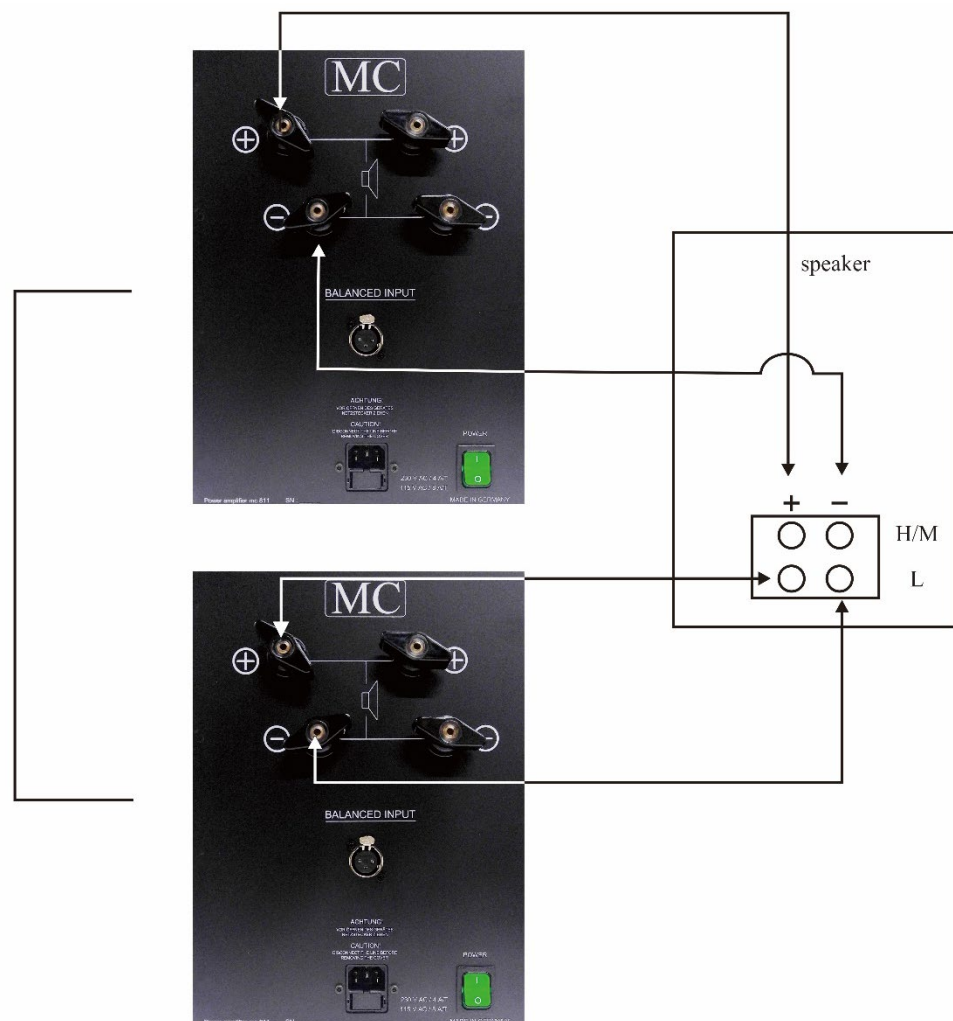
To connect the speakers only use high quality cables. Especially recommended are coaxial cables with high copper quality.

Example for Connection:

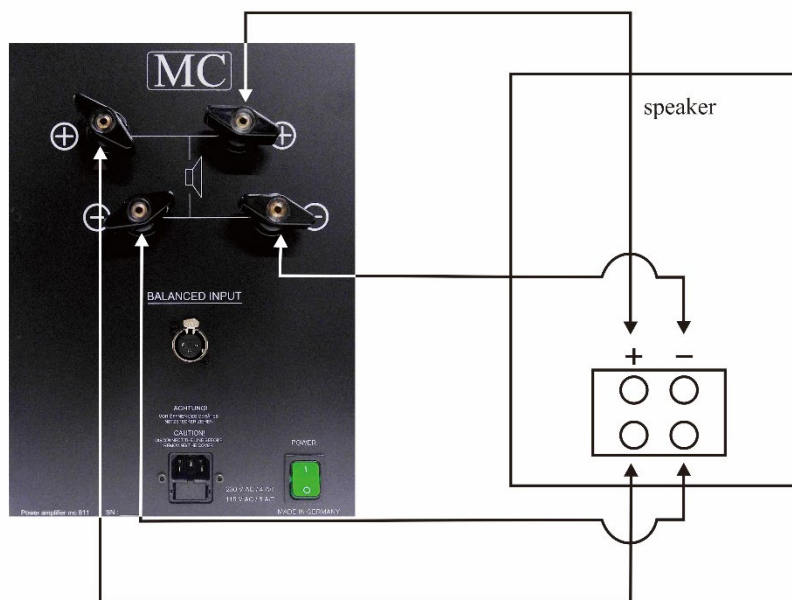
**Standard
Connection**



Bi-Amplifier



Bi-Wire

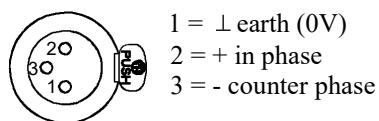


3. Connecting the power amplifier to the preamplifier

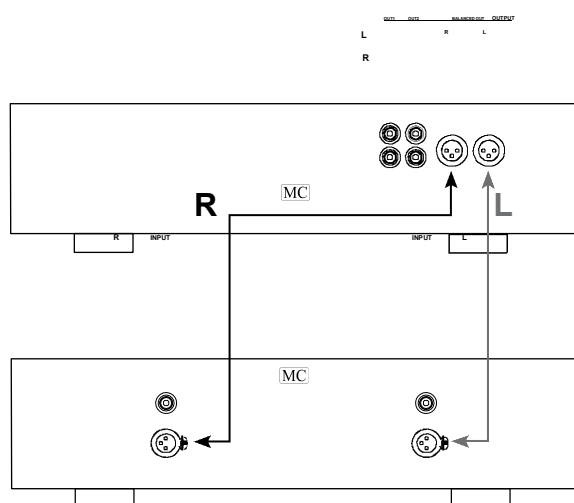
To connect the power amplifier to the preamplifier you can either use the XLR or the RCA input.

Notice: Remove all cables from inputs not in use. Never use both XLR and RCA inputs at the same time.

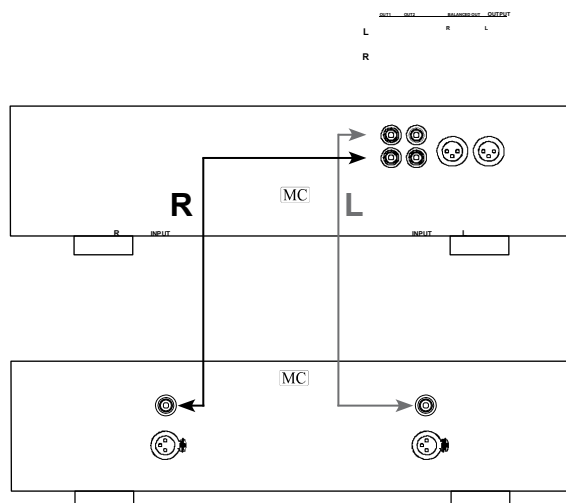
Pin assignment of XLR plug



Balanced input (use XLR cables)



Unbalanced input (use RCA cables)



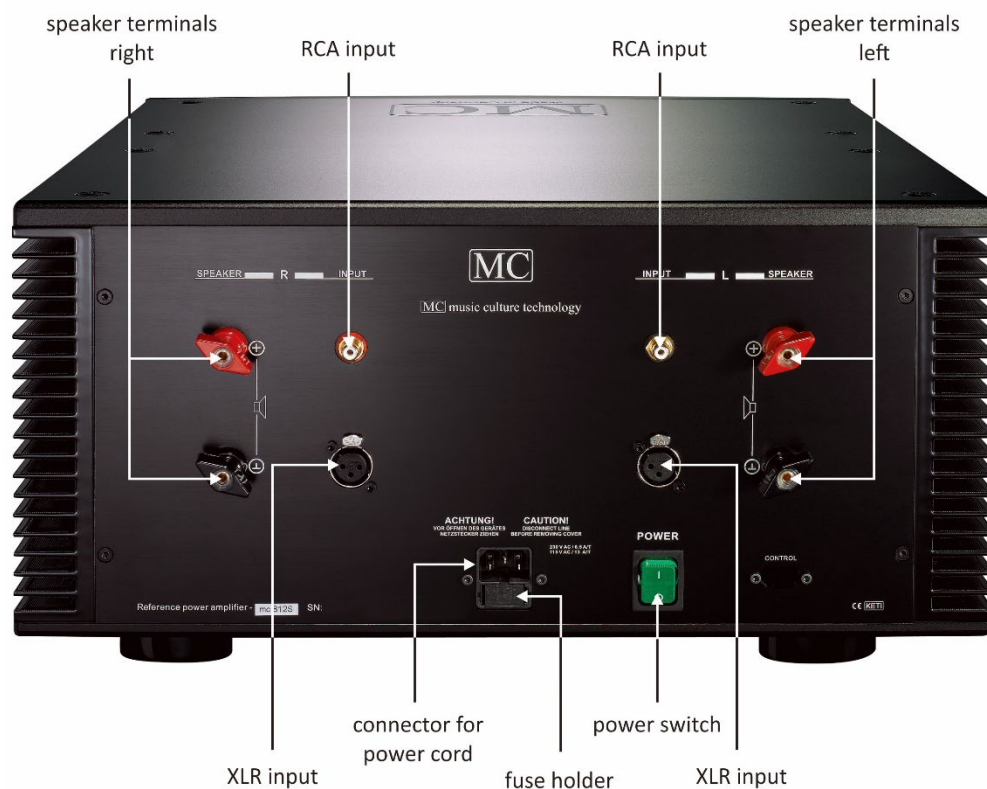
E. mc 812s / 812 Stereo Power Amplifier

1.1 mc 812s / 812 front view



* made of 15 mm special material to absorb mechanical resonances and signal distortion.

1.2 mc 812s / 812 rear view

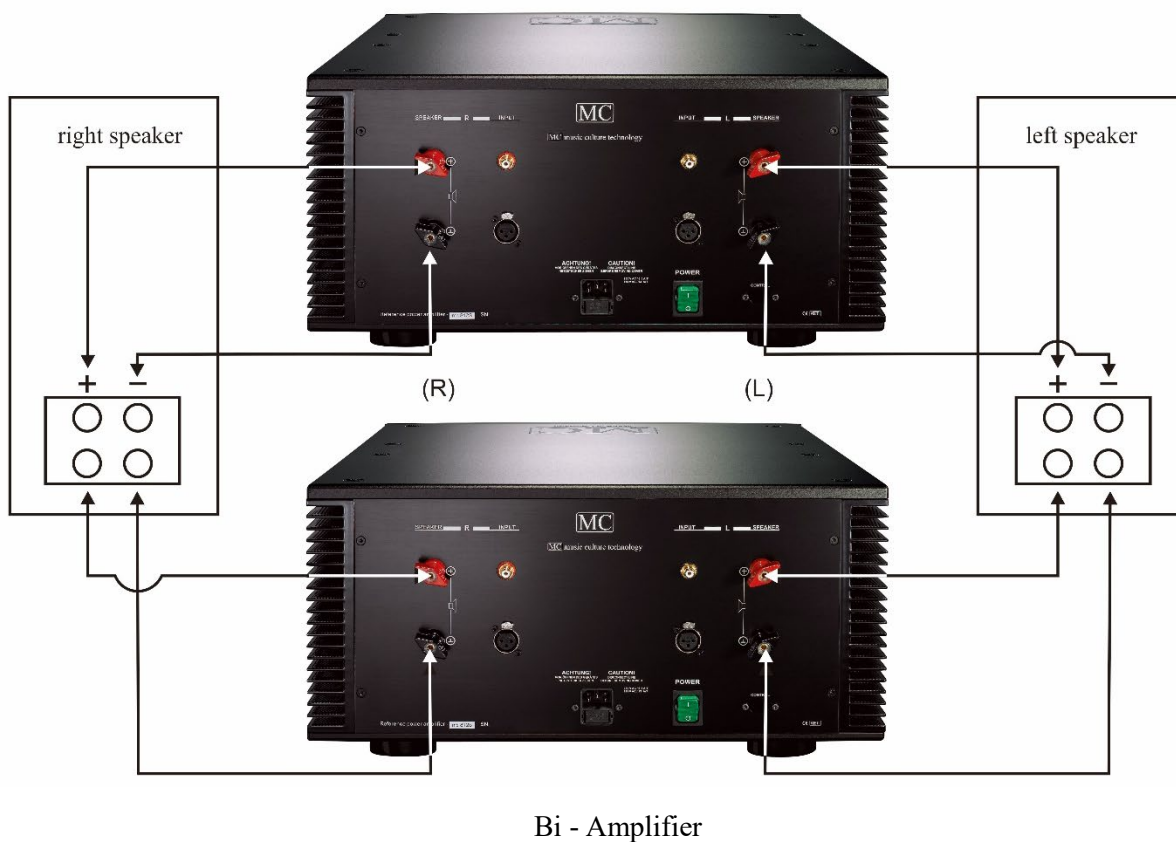


2. Connecting the power amplifier to the speakers

There are two pairs of speaker terminals on the back of the amplifier. Two speakers can be connected to the amplifier.

To connect the speakers only use high quality cables. Especially recommended are coaxial cables with high copper quality.

Example for Connection:

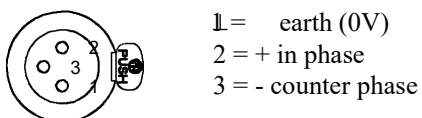


3. Connecting the power amplifier to the preamplifier

To connect the power amplifier to the preamplifier you can either use the XRL or the RCA input.

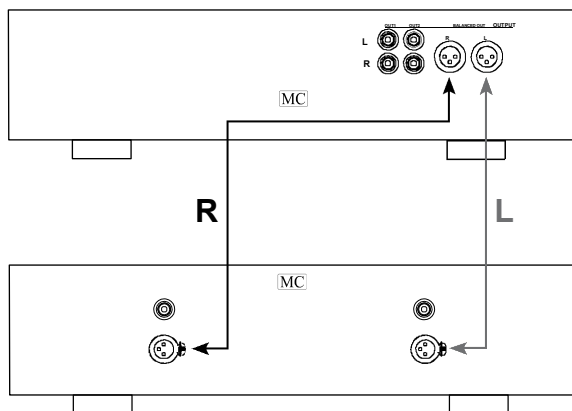
Notice: Remove all cables from inputs not in use. Never use both XLR and RCA inputs at the same time.

Pin assignment of XLR plug

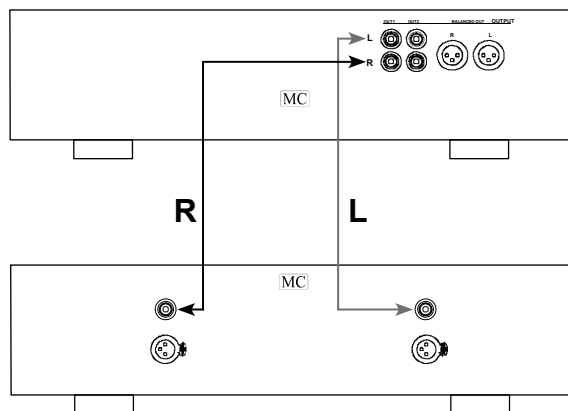


Examples for Connection:

Balanced input (use XLR cables)



Unbalanced input (use RCA cables)



F. Operating the remote control

1. Replacement of the batteries

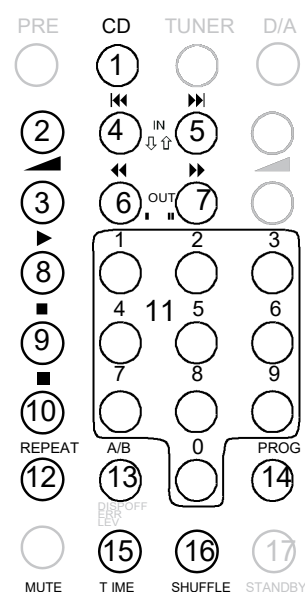
First unscrew the four screws on the bottom of the remote control to remove the bottom plate. Inside the unit you will find the battery holder. Insert the batteries with correct +/- orientation. Replace the bottom plate and re-screw it on the remote control.

Attention: Use only standard “AAA” batteries (1.5 V). Do not use old and new batteries together. If the performance of your remote control becomes unsteady, always change the batteries. If you do not use the remote control for an extended period of time, please remove the batteries. Dispose of batteries in an ecologically friendly manner.

2. CD player controls

The CD button (1) activates the CD player. The other CD player related controls are as follows:

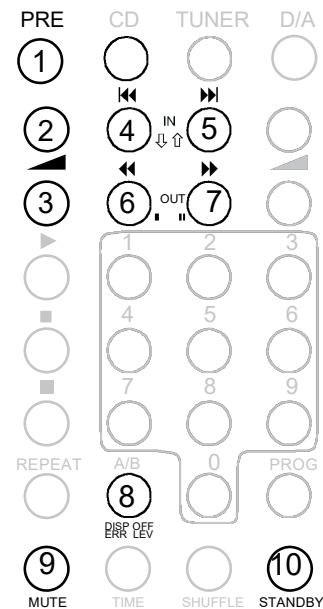
Button	Function
2:	preamp volume up
3:	preamp volume down
4:	skip back
5:	skip forward
6:	review (during playback)
7:	fast forward (during playback)
8:	play
9:	CD pause
10:	CD stop
11:	select title by number
12:	press 1x: CD repeat press 2x: active title repeat press 3x: repeat off
13:	specify passages for repeat playback (works only during playback)
14:	program title
15:	remaining time indicated in the display changes between active title and entire CD
16:	random play



3. Pre / Integrated amplifier controls

The PRE button (1) activates the preamplifier or integrated amplifier. The other preamplifier related controls are as follows:

Button	Function
2:	volume up
3:	volume down
4:	select input up
5:	select input down
6:	output group 1 on / off
7:	output group 2 on / off
8:	step through brightness levels of the display
9:	Mute: turns sound on and off
10:	switch to standby mode



Please note: The power amplifier volume can be controlled at any time.

G. Troubleshooting

1. Replacement of the fuses

The fuse holder is integrated in the main socket. It is located on the rear side of the unit. When replacing the fuses, remember to:

- Pull the plug from the wall outlet first! If you do not, you will risk damage to the unit as well as to your life.
- Pull out the fuse holder, which is installed above or below the power connector on the back panel.
- The fuse holder contains 2 fuses (0.5 AT for 230 VA, and 1.0 AT for 110 VA). The left fuse is the active one, the right one is in reserve. Exchange accordingly and put the fuse holder back in an re-plug the unit to the wall.

2. Change of main voltage

A change of the main voltage can only be done by an authorized dealer. This procedure is not a warranty service. A change of the main voltage always requires a change of the fuses.

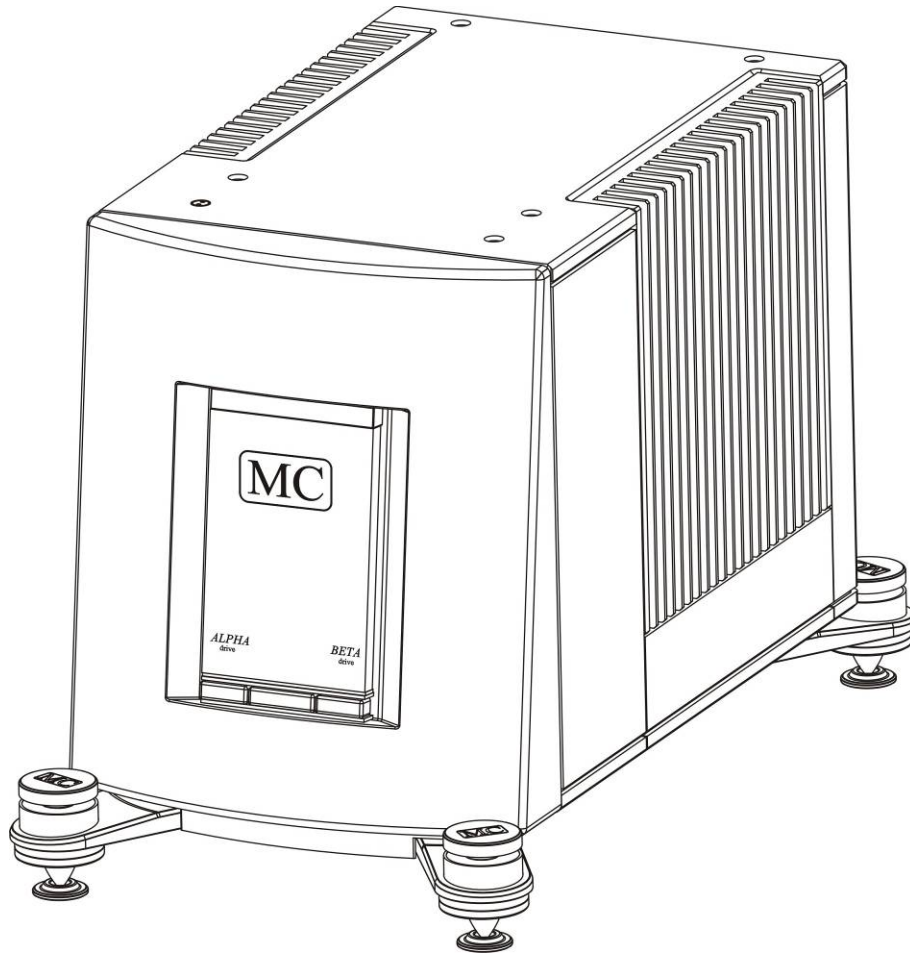
Warning: If opened by anybody other than qualified MC dealers, MC will not take responsibility for any damage to machinery or life. And any warranty claims will be voided.

H. Specifications

Quick Reference Technical Specifications:

Models:	811a	833	812s	812
Peak Pulse Power	1300W @4ohms	1500W @4ohms	1300W @4ohms	1200W @4ohms
Rated Power	360W(4ohms); 302W(8ohms)	720W(4ohms); 604W(8ohms)	360W(4ohms); 302W(8ohms)	330W(4ohms); 280W(4ohms)
Output Voltage Max.	35V peak	85V peak	70V peak	68V peak
Output Current Max.	20A peak	38A peak	45A peak	45A peak
Inputs:				
Outputs:				
Freq. Response:	DC – 140kHz	DC – 140kHz	DC – 140kHz	DC – 140kHz
Output Level:				
Output impedance:				
Noise Distortion:	<0.004%, 4ohms, 1kHz, 50W	<0.004%, 4ohms, 1kHz, 50W	<0.004%, 4ohms, 1kHz, 50W	<0.004%, 4ohms, 1kHz, 50W
Input Sensitivity:	315mV	315mV	315mV	315mV
Signal to Noise Ratio				
Maximum Loading Level				
Input Impedance	XLR 10kohms,	10Kohms, RCA; XLR 10kohms,	10Kohms, RCA (Stereo); 10Kohms XLR(Stereo)	10Kohms, RCA (Stereo); 10Kohms XLR(Stereo)
Channel Separation				
S/N Ratio (Unweighted):	117db	120db	120db	120db
S/N Ratio (A-Weighted):	120db	125db	1250db	125db
Damping Factor:	300 @4ohms	300 @4ohms	300 @4ohms	300 @4ohms
Power Consumption:	18VA (Standby Mode; 88VA (idle mode); Max. 480VA	20VA (Standby Mode; 90VA (idle mode); Max. 1000VA	20VA (Standby Mode; 80VA (idle mode); Max. 1000VA	20VA (Standby Mode; 80VA (idle mode); Max. 1000VA
Main Voltage:	230 or 115Vac, 50/60 Hz	230 or 115Vac, 50/60 Hz	230 or 115Vac, 50/60 Hz	230 or 115Vac, 50/60 Hz
Weight:	67lbs, 30kg	90lb, 45.5kg	132lbs, 60kg	110lbs, 50kg
Dimensions Max. (W*H*D) mm	318*373*567 with feet	477*560*850 with feet	480*260*580 With feet	480*260*580 With feet
Model:	811a	833	812s	812

*Design and specifications are subject to change without notice.



mc 811.a Addendum Sheet

The 811 Mono amplifier is one of our current success model and it is hot in the high end circle, our management intended to enhance it and upgrade this model to highest level. During the past year, we implemented a lot of significant upgrades on the structure as well as sound technology areas.

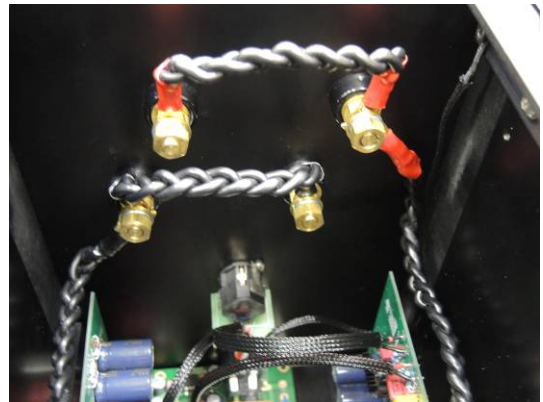
Acoustic and resonance:

We replaced the entire base section to a more serious professional feet mounting design. It is greatly improve of the resonance and make the appearance more promising.



Sound performance:

We improved the output cables with three bundle wire dressing method and also used the OCC copper terminal allowed a better electrical pass through abilities for the amplifier.

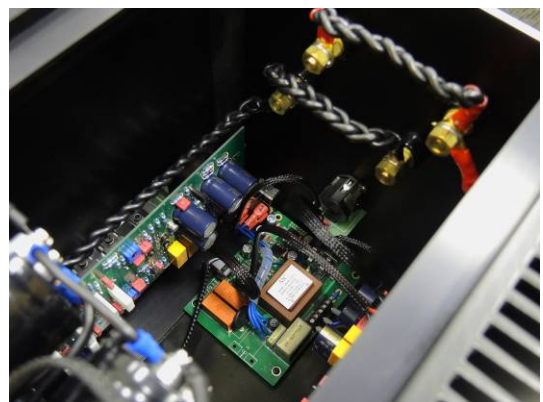


Soft Touching switching:

We replaced the front buttons from mechanical switches to soft touch switching function to get the better hand touch feeling for the operation.



We also upgraded the secondary power supply and higher grade standard in order to stabilize the electrical supply on the unit.



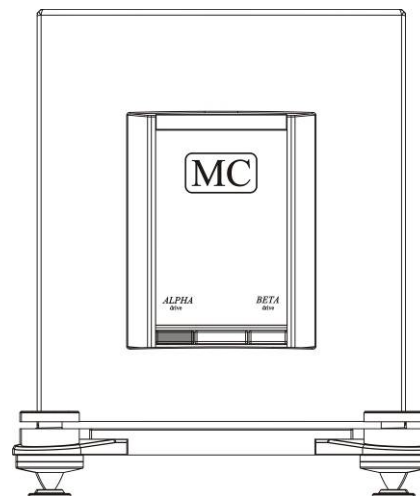
Cable management:

We implemented a more tidy and clean cable dressing method in order to improve the internal looking feel. It is also benefit for the signal path and avoid any interference inside the unit.



Left knob: On / Standby Switch

Once the power switch (at the back) is on, use the left knob to switch on the mc 811.a mono amplifier. Pressing this knob again puts the amplifier back in standby.

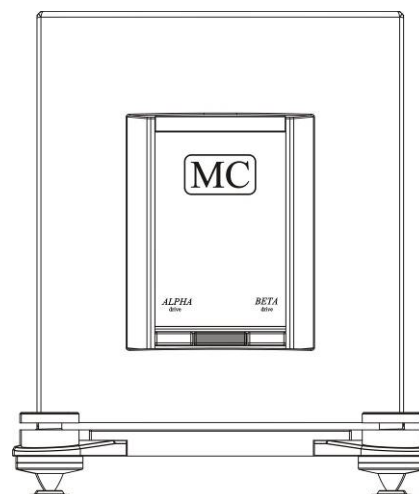


Central knob: Alpha Drive & Beta Drive Switch

The central knob enables you to switch between the two different drive modes: Alpha Drive and Beta Drive.

This feature allows you to tailor the mc 811.a mono amplifier output stage to your loudspeaker's impedance, specifically whether the loudspeaker likes to be driven by voltage or by current.

Use the Alpha Drive mode for a voltage driven loudspeaker. Use the Beta Drive mode if your loudspeaker needs more current.



General Circuit design of the 811.a Reference Mono Amplifier:

For the general design of a high end amplifier, the most common design is one amplifier to handle one channel of the signal path. That means the input signal will go into the circuit with +/- together. 811.a used separate amplifiers to handle (+) and (-) signals. The amplifier run two separate power amplifier modules all the way. The benefit is to expand a double capacity of the power and double headroom according to the power rating. For audiophiles, we all understand the advantage by using dual amplifier method.

Besides of the (+), (-) signals running design, MC also implement our custom power management successful circuit into 811.a. Please reference below:

What is "Alpha" mode?

A well calculated power rating design, by using "Alpha" mode (Alpha Blue sign light up) the power amplifier is powered up by a constancy power section. It is enough for the entire amplifier power consumption. It is also well performing the sound reproduction with smoothest and details.

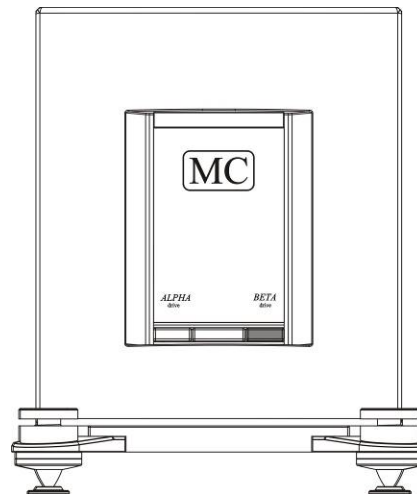
What is "Beta" mode?

When using "Beta" mode (Beta Red sign light up), the amplifier is running two power supplies which double the input power consumption so that you will find it almost no power limit for any dynamical music reproduction.

By the design, you will be experience the difference when the power go higher dynamic signals and deeper bass reproduction. The second power supply will handle well the highest requirement of the power. The bigger headroom allows the sound go deepest and fastest without distortion.

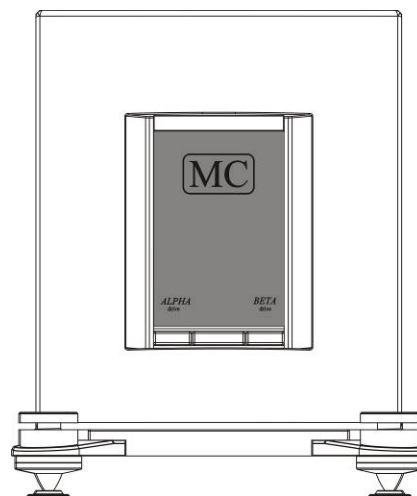
Right knob: LED On / Off Switch

With the right knob you can switch the upper LED on and off to adjust the illumination to your listening environment.



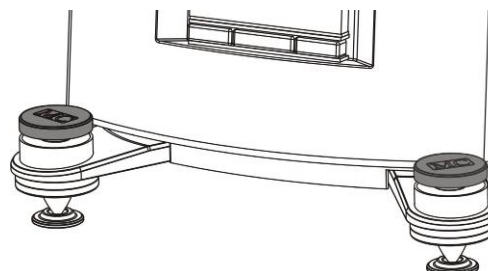
Engraved glass

The piece of glass with the engraved logo snaps in place. Press down the thin layer of rubber and pay attention to the upper aluminum frame, you might have to push it up slightly to allow the glass piece to slide in. The fit is tight so that it won't move once in place.



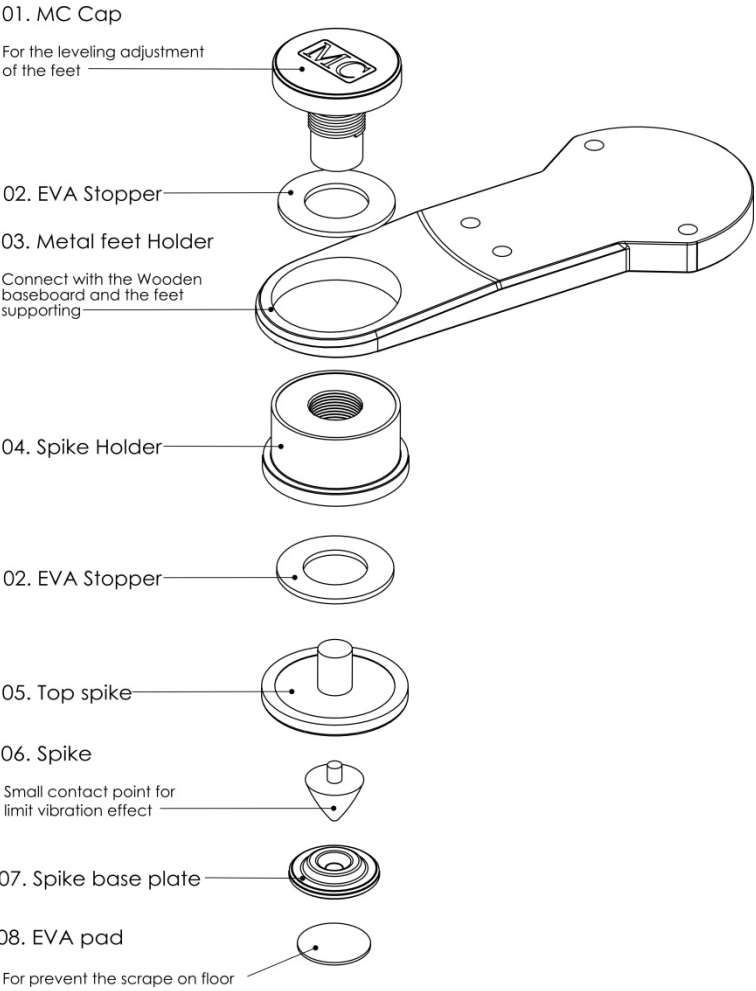
Level up or down the mc 811.a

You can level the mc 811.a mono amplifier by turning the part of the feet with the MC logo.

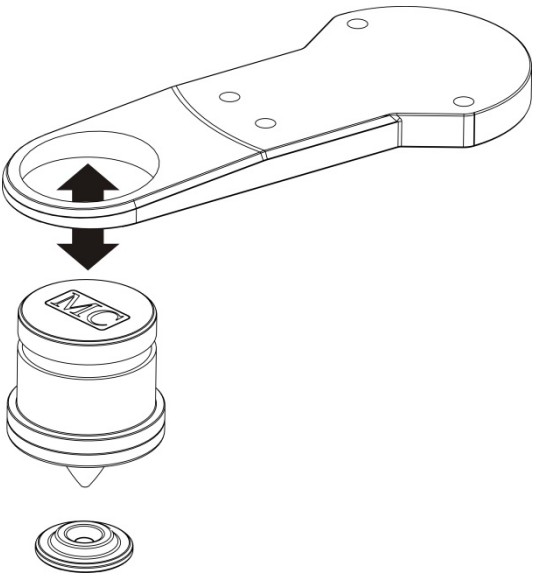


Base mounting System:

A) Assembly



B) Placing method



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