



Exklusive HiFi-Komponenten
MADE IN GERMANY

mbi 8011AM
Mono Power Amplifier
Owner's Manual

mbi 8011AM

Important Information!

Attention: Keep the amplifier 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 mbl 8011AM should not be opened without the assistance of a qualified technician.

KETI, CE-Marking

This product conforms to the requirements of the EMC directive and low-voltage directive. Your MBL component complies with the household power and safety requirements in your area.



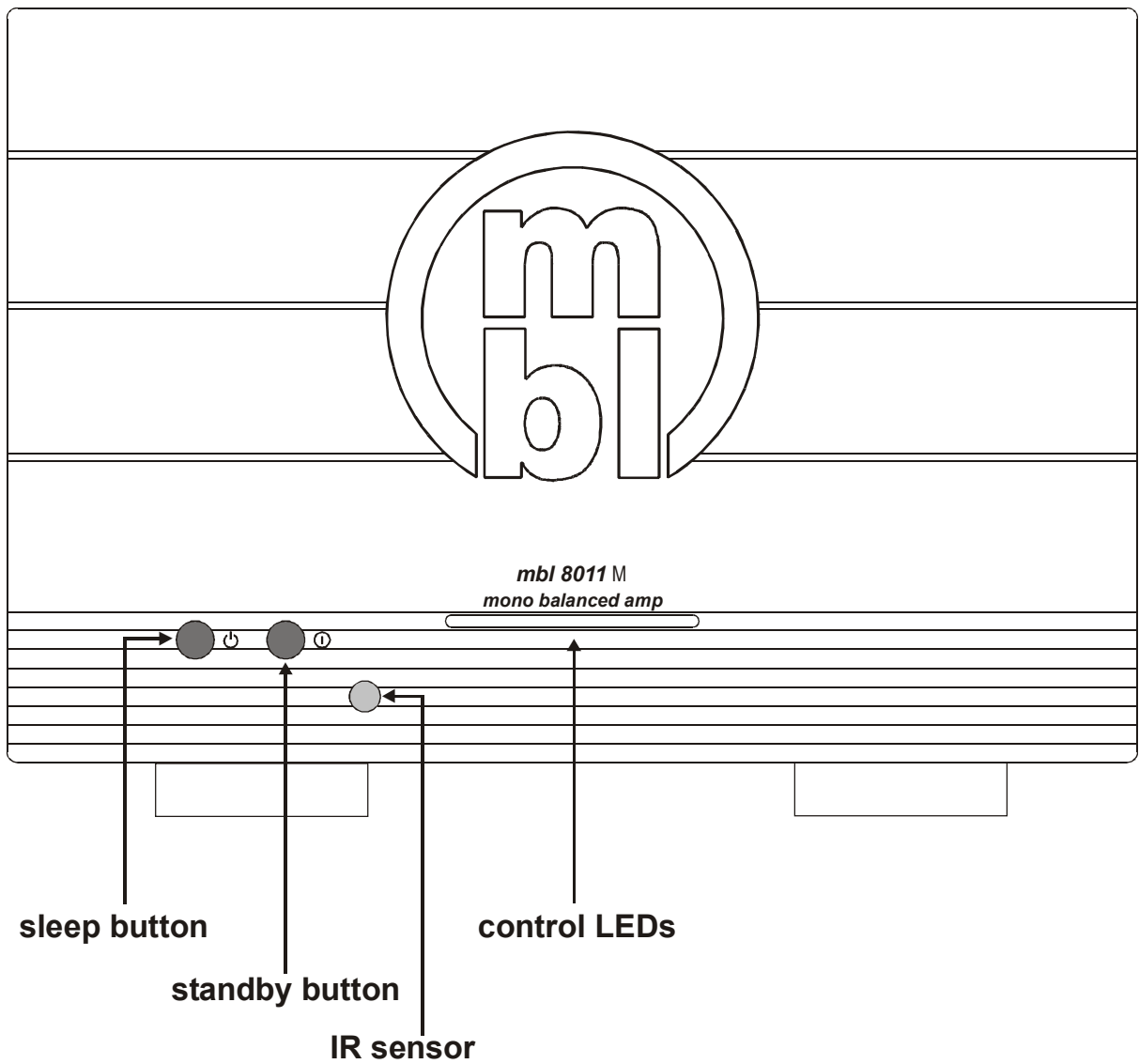
Warranty

MBL 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**.

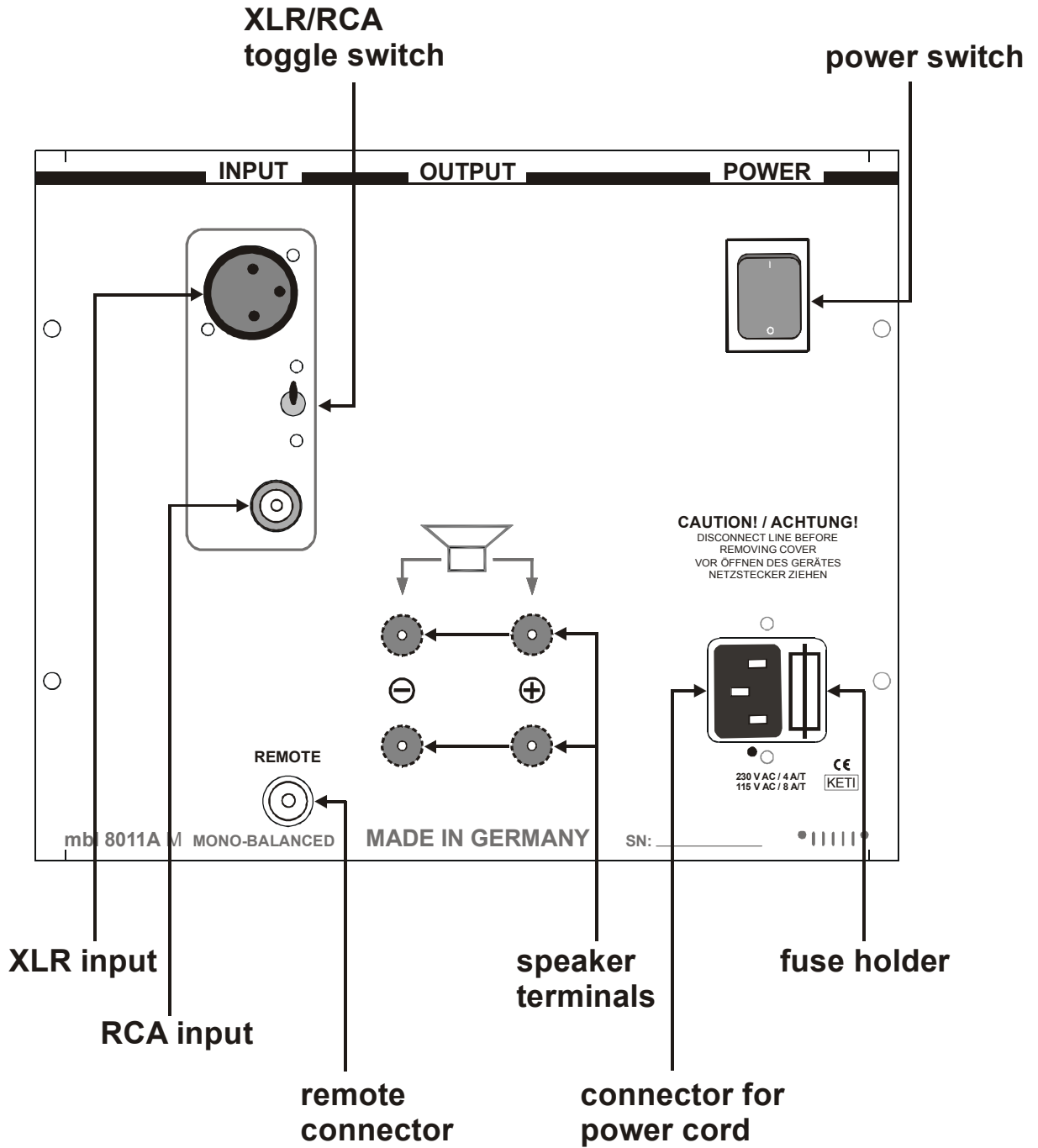
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1.1 8011AM front panel



1.2 8011AM rear panel



2 Placement

Please ensure that there is sufficient ventilation and flow of air on all sides of the unit. There must be a min. space of 10 cm (approx. 4") above the amplifier so that the heat can escape.

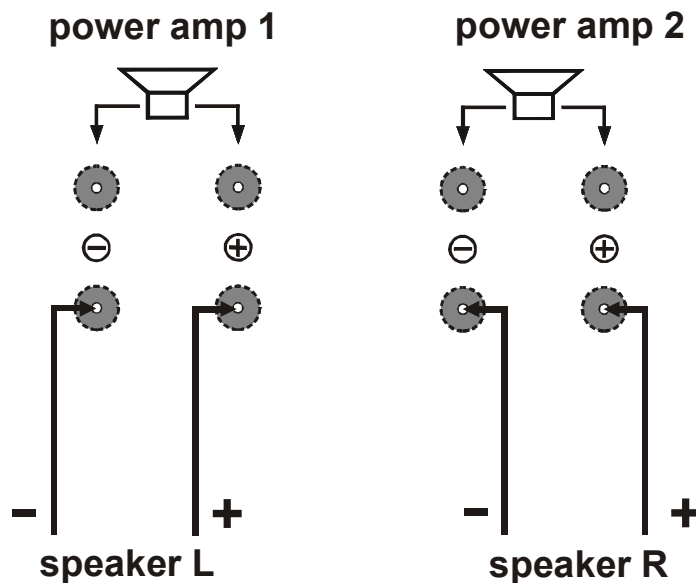
Notice: Never completely cover or operate the amp in a place with insufficient flow of air. If you do, the amp may overheat.

In case you wish to operate two or more mbl 8011AM, never stack them. You may place them on shelves, or fit them under a cabinet (remember to keep the minimum space of 10 cm (approx. 4") above the amplifier).

Keep the amp away from humidity, vibration, excessive dust, and direct sunlight. Do not operate the unit near other electric appliances (for instance neon lights and motors).

3 Connecting power amp and speakers

3.1 Stereo mode



↑Fig.1: connecting speakers in stereo mode, 2 mbl 8011AM

Connect the right speaker to the power amp on the right.

In particular:

Connect **positive pole** of the speaker (usually red) to the **+** - pole on the amp.

Connect **negative pole** of the speaker (usually black) to the **=** - pole on the amp.

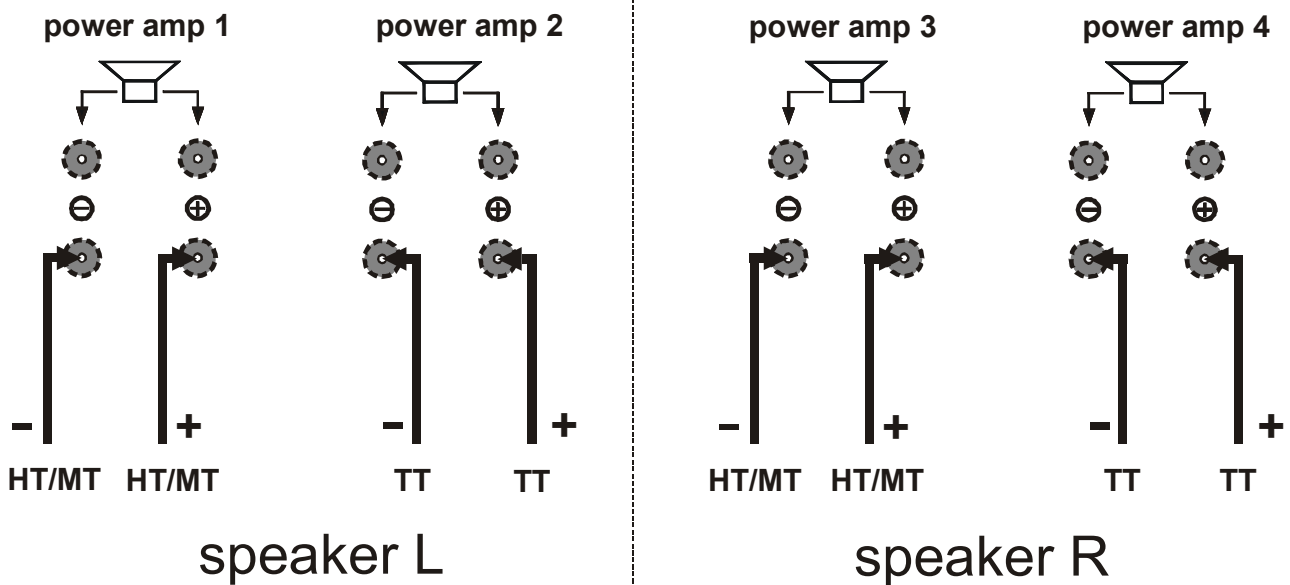
Connect the left speaker to the amp on the left)

In particular:

Connect **positive pole** of the speaker (usually red) to the **+** - pole on the amp.

Connect **negative pole** of the speaker (usually black) to the **=** - pole on the amp.

3.2 Bi-amping mode with 4 mono power amps



↑Fig.2: connecting speakers in bi-amping mode, 4 mbl 8011AM

Bi-amping is a specific form of connecting amplifier and speaker. 2 mono power amps are needed for the left and 2 for the right loudspeaker. **High/mid** range and **bass** are fed separately. This requires that the respective speaker has got **separate terminals** (four per speaker).

Connect the speaker's **high/mid** range to the speaker terminals of the first amp. This means that **clamp positive** on the speaker (usually red) is to be connected to the \oplus - **clamp** on the amp, and **clamp negative** on the speaker (usually black) is to be connected to the \ominus - **clamp** on the amp.

Connect the speaker's woofer (TT) to the speaker terminals of the second amp. This means that **clamp positive** on the speaker (usually red) is to be connected to the \oplus - **clamp** on the amp, and **clamp negative** on the speaker (usually black) is to be connected to the \ominus - **clamp** on the amp.

The power amplifier works fully symmetric (no connection of the earth of the loudspeaker). Therefore, never connect any earth-related potentials, as is common with active and semi-active speaker systems (including subwoofers).

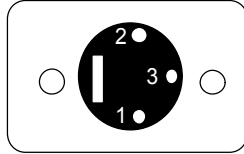
Notice: Make sure that the speaker's terminals for high/mid range and woofer unit are really disconnected inside the speaker.

Please check that there is no wire strap connecting the terminal pairs.

4 Connecting preamp and power amp

4.1 Pin assignment of XLR plug (balanced)

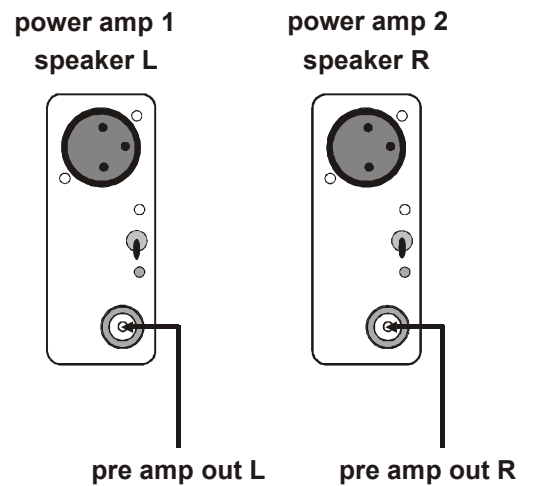
- 1 ... \perp earth (0V)
- 2 ... + in phase
- 3 ... - counter phase



4.2 Stereo mode (unbalanced)

Use RCA cable to connect the preamp's output to the RCA input of the power amp. The XLR/RCA toggle switch must be in the RCA position (toggle switch down, LED next to the chosen input lights.)

Notice: Remove all cables from inputs not in use.

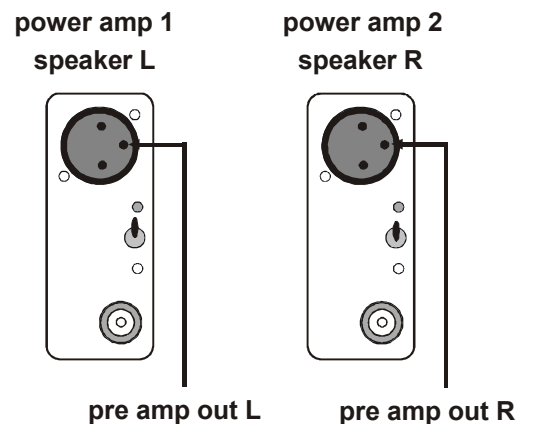


↑**Fig.3:** connecting pre-amp and power amp in unbalanced stereo mode, 2 mbl 8011AM

4.3 Stereo mode (balanced)

Use a symmetric cable to connect the preamp's output to the XLR input of the power amp. The XLR/RCA toggle switch must be in the XLR position (toggle switch up, LED next to the chosen input lights.)

Notice: Remove all cables from inputs not in use.



↑**Fig.4:** connecting pre-amp and power amp in balanced stereo mode, 2 mbl 8011AM

5 Bi-amping mode

5.1 Asymmetric operation with 4 mono power amps

This mode requires that the respective preamp has got two outputs of completely equivalent quality. (Recommendation: **mbl 6010D**, **mbl 5011** and **mbl 4006**).
Use RCA cables to connect the preamp to the power amp.

(For left speaker:) Connect preamp output 1 (right channel) to RCA input of the **first** power amp; preamp output 2 (left channel) to RCA input of the **second** power amp.

(For right speaker:) Connect preamp output 1 (right channel) to RCA input of the **third** power amp; preamp output 2 (left channel) to RCA input of the **fourth** power amp.

The XLR/RCA toggle switch must be in the RCA position (toggle switches down, LED next to the chosen input lights.)

Notice: Remove all cables from inputs not in use.

5.2 Symmetric operation with 4 mono power amps

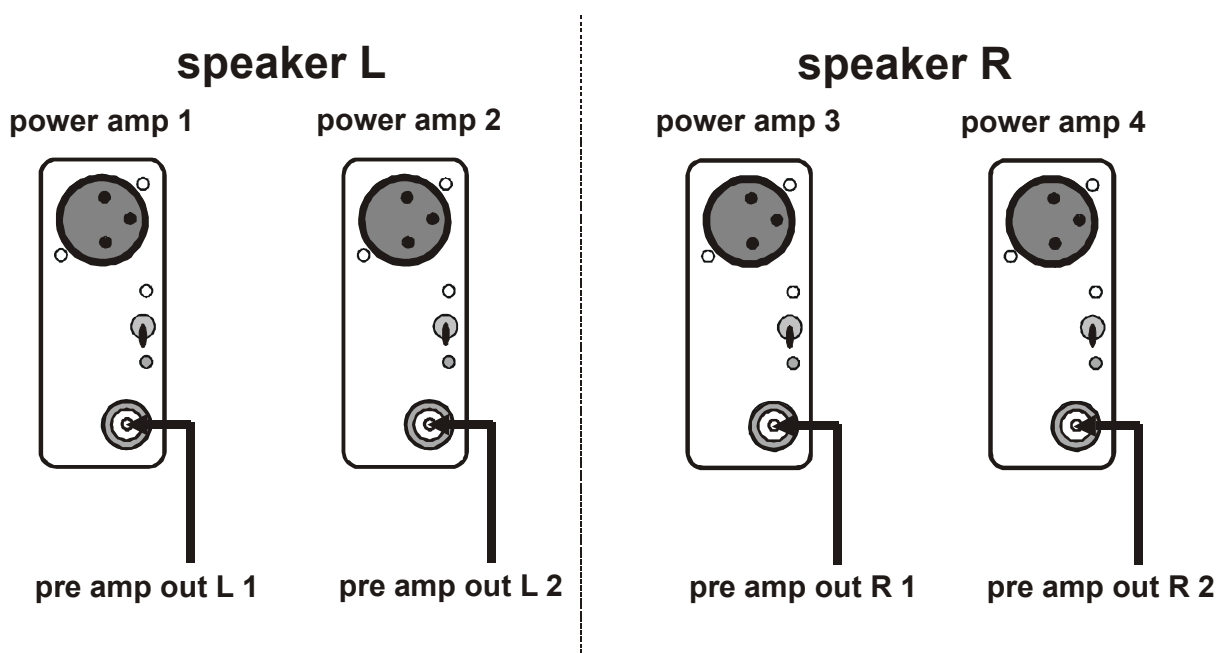
This mode requires that the respective preamp has got two outputs of completely equivalent quality. (Recommendation: **6010D**, **5011**)
Connection of preamp and power amp is done with symmetric cables.

(For left speaker:) Connect preamp output 1 (right channel) to XLR input of the **first** power amp; preamp output 2 (left channel) to XLR input of the **second** power amp.

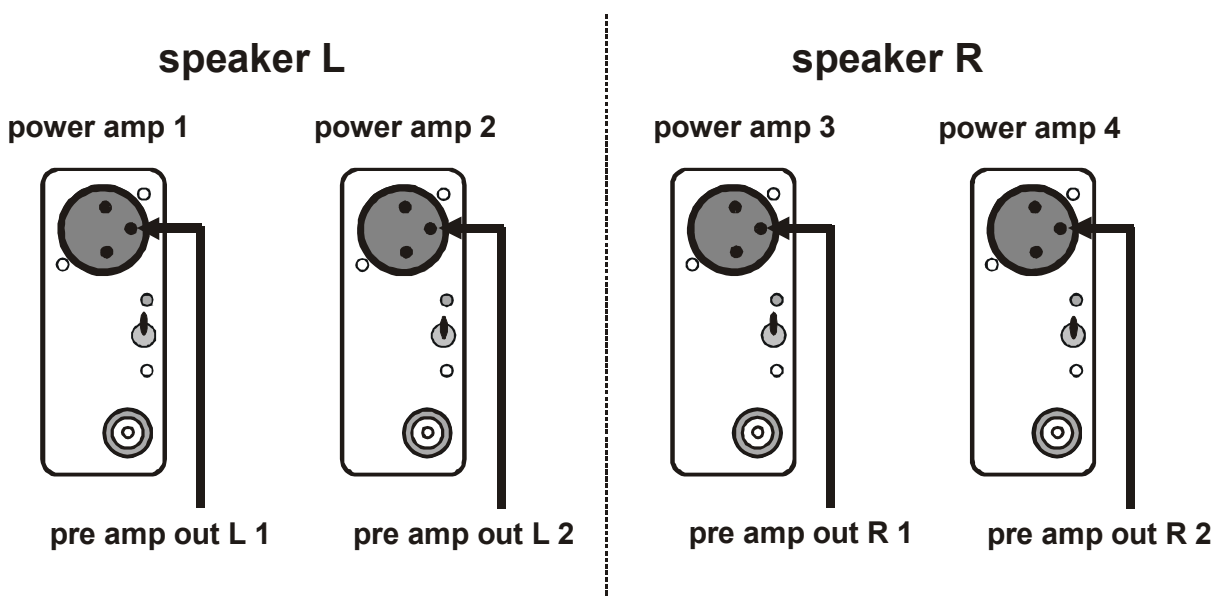
(For right speaker:) Connect preamp output 1 (right channel) to XLR input of the **third** power amp; preamp output 2 (left channel) to XLR input of the **fourth** power amp.

The XLR/RCA toggle switch must be in the XLR position (toggle switch up, LED next to the chosen input lights)

Notice: Remove all cables from inputs not in use.



↑**Fig.5:** connecting pre amp and power amp in unbalanced biamping mode



↑**Fig.6:** connecting pre amp and power amp in balanced biamping mode

6 Installation

6.1 Mains voltage

This amplifier is equipped with a low-dissipation toroidal transformer. It operates at 230 V AC and 115 V AC, 50/60 Hz. The back of the amp indicates the selected mains voltage which has been pre-set by the manufacturer (230 V AC or 115 V AC). Change this setting only, if the amp is taken to a country with differing mains voltage.

6.2 Fuses

Warning: Before checking the fuses disconnect the power plug from the electric outlet!

The fuse holder is integrated in the mains socket. It is located on the back of the amp. The holder takes fuse type 5 x 20 mm. You must change the fuse type if you use another mains supply (230 V AC/ 3,15 AT or 115 V AC/ 6,3 AT).


Refer to chapter TROUBLESHOOTING, if you want to replace fuses.

Change of mains voltage:

Alignment of the amp to a different mains voltage has to be done inside the unit. Always have a service technician do this for you. This procedure is not a warranty service.

6.3 First operation

After all necessary connections (input, output, mains) are made press the power switch on the rear panel to switch on the power amp.

Press the **sleep** button  on the front panel to turn the amplifier on. After 3 seconds the amplifier turns to operation mode.

When the amp is in operation mode the blue LED's on the front panel will light.

6.4 Sleep button

With the sleep button you can toggle between sleep and operation mode. When the amplifier is in sleep mode, the blue LED's on the front panel are off, only a yellow LED in the center is on. In this mode the power consumption is reduced to 4 VA.

In sleep mode no signal appears on the speaker terminals.

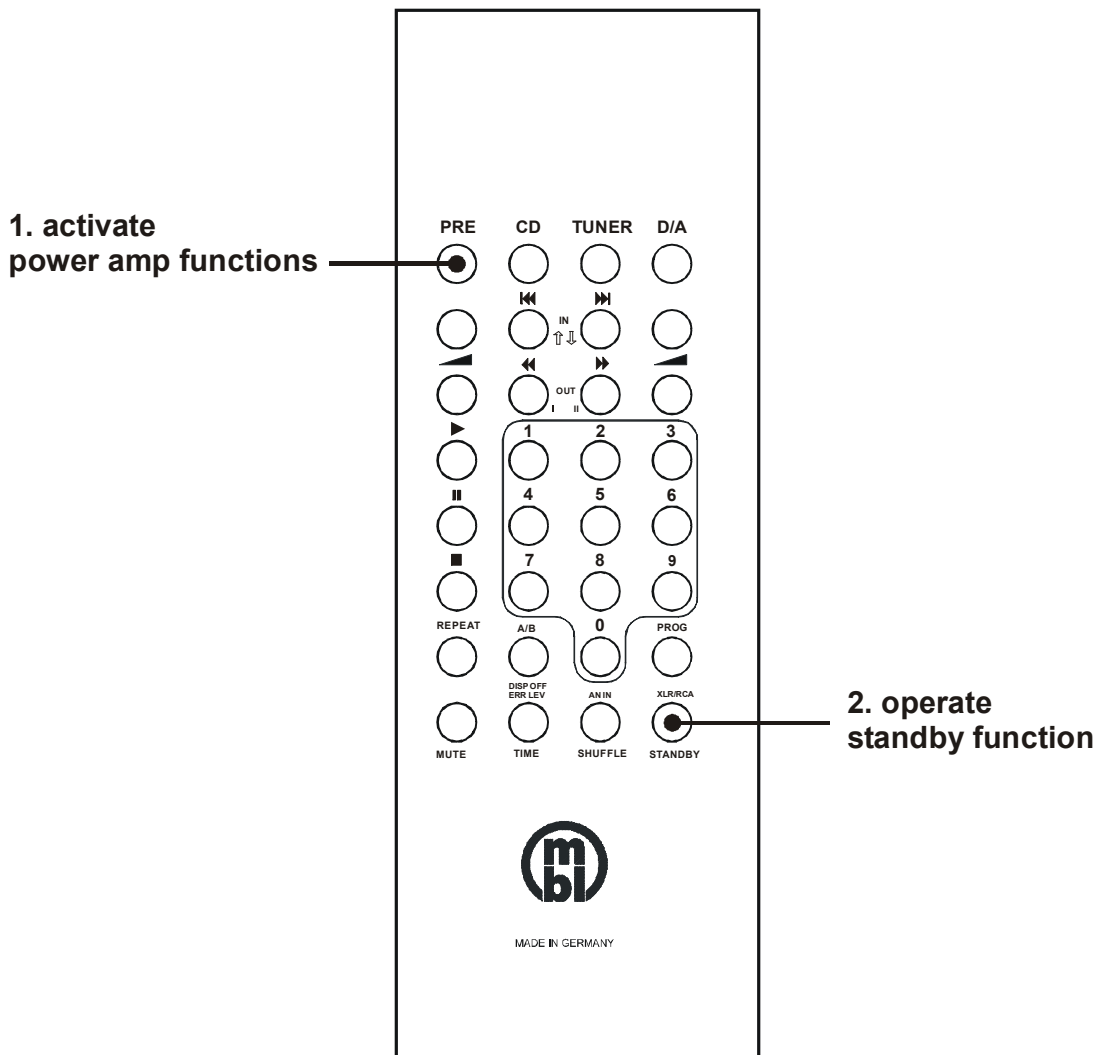
6.5 Standby button

With the standby button you can toggle between standby and operation mode. When the amp is in standby-mode the blue LEDs on the front panel glow in low density. In this mode the amplifier is ready to operate directly, if it is switched to operating mode. No warm up time is necessary.

In standby mode no signal appears on the speaker terminals.

6.6 Remote control

The Sleep Mode can be operated by remote control. To use this function activate the pre amplifier (PRE) functions on your MBL remote control. Please keep in mind that you toggle the preamp's and every other remote controlled power amp's standby mode too.



7 Cleaning

Unplug the unit before cleaning.

To clean the exterior surfaces of your mbl 8011AM, use a dry, soft cloth. To wipe off fingerprints 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 damaging 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.

8 Troubleshooting

The amp does not function, control LEDs are not illuminated

- Check, whether the power plug is inserted in the mains socket and whether the power switch is in the ON position. Make sure that the power plug is connected to the electric outlet.
- Check the fuses located on the back of the unit (near the mains socket). To do this, pull out the plug-in unit above the mains socket. Remove the fuse, check it, and exchange it if necessary. Fuse type and value see **6.2 Fuses**.

No music

- Check, whether the power switch is in the ON position.
- Check both the loudspeaker connections and the connections between preamp and power amp.
- Check, whether the amplifier is in stand-by or sleep mode.
- Check, whether the power cable is correctly connected to the wall-sockets.

Music is playing, but something is wrong

- Check, whether you are really using one input. Remove cables from all inputs not in use. **See also 4 "Connecting preamp and power amp"**.
- Check, whether the speakers have been connected correctly. **See also 3 "Connecting power amp and speakers"**.

In all other instances of malfunction please contact your MBL-dealer.

9 Specifications

Peak Pulse Power	1100 W
Pulse Power (1/15)	560W
Rated Power	210 W, (8 Ω) 310 W, (4 Ω) 380 W, (2 Ω)
Max. Output Voltage	70 V peak
Max. Output Current	23 A peak
Input Impedance	5 k Ω , RCA 20 k Ω , XLR
Input Sensitivity	2.0 V, 310 W, 4 Ω
S/N ratio unweighted	115 dB, RCA 117 dB XLR
S/N ratio A-weighted	118 dB, RCA 120 dB, XLR
Frequency Response	DC – 130 kHz
Small signal Frequency Response	DC – 160 kHz
Distortion	<0.004%, 4 Ω , 1 kHz, 50 W
Power Consumption	200 (4 Ω) 4 VA (Sleep Mode) 11VA (Stand By) 47 VA (Idle Mode) 510 VA (max.)
Line Voltage	230/115 Vac, 50/60Hz
Weight	25 kg, 55 lbs
Dimensions (H x W x D)	9" x 12" x 17" inch 235 x 304 x 440 mm

Design and specifications are subject to change without notice.



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<http://www.mbl-hifi.de>