

THE GOLDMUND MIMESIS 9 AMPLIFIER
USER MANUAL

ATTENTION

No connection or manipulation must be done before reading those instructions. Damage of the amplifier may result if the following instructions are not consciously understood and applied.

1. UNPACKING

You will find in the GOLDMUND MIMESIS 9 box :

- The amplifier
- The power cord
- This manual
- Accessories and spare fuses.

Please keep the packaging in case you need to transport the amplifier at a later date or if you have to send it for maintenance.

2. CHOICE OF AMPLIFIER LOCATION AND COOLING

The GOLDMUND MIMESIS 9 amplifier, as all the high quality amplifiers generates a large amount of heat.

It is mandatory to allow a proper cooling of the heat sinks. Avoid any location which is not properly vented and avoid to put on top of it equipment sensitive to temperature.

Due to its weight, and to maximize the effect of the built-in "Mechanical Grounding" construction, the MIMESIS 9 is better located on the floor. But other very strong support can also be used, if they offer a very rigid transmission with the floor.

The MIMESIS 9 is built on three very hard conical feet to insure proper vibration transmission to the amplifier support in order to evacuate all detrimental vibrations inside the amplifier, following the famous GOLDMUND "Mechanical Grounding" principle. Depending on the hardness of the surface where the amplifier will be located, you will choose to screw in the three round flat feet of the amplifier to allow full contact of the points with the support or, if the surface may be scratched, to leave the flat round feet fully extended.

3. LINE VOLTAGE ADJUSTMENT

A voltage selection is provided inside the amplifier.

If your line voltage is not adapted to the voltage indicated on the serial plate of the amplifier, please consult your local GOLDMUND dealer for internal adjustment.

ATTENTION : On the 220V position, the GOLDMUND MIMESIS 9 amplifier will function properly for main line voltage in between 200V and 240V. On the 110V position, the main line must deliver between 105 and 125V. If your main line is usually out of these tolerances, please consult your GOLDMUND dealer.

Please check the value of the main line fuse. This fuse is located on the back panel of the amplifier, above the two power cord receptacles.

Use a 5A delayed fuse for 220V and a 8A delayed fuse for 110V.

4. CONNECTIONS

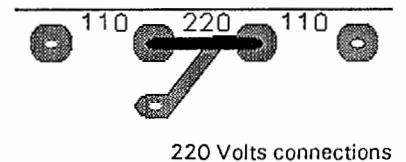
Connect the power cord to the back of the amplifier and plug it in the nearest wall plug. Use only a 3 lugs grounded plug, for safety reasons. To get the best sound of the amplifier, avoid any multiple plug or extension cord.

NOTE : See below for the proper selection of the power cord receptacle, depending of the line phase.

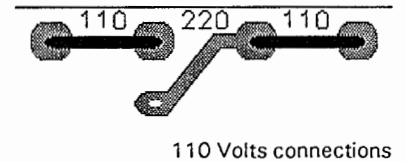
Connect the interconnects between the preamp and the power amp. You may either use the RCA female sockets which are the highest quality WBT sockets (ground connects first and the plug may be locked if you use the GOLDMUND-MIT interconnects), or the NEUTRIK. The NEUTRIK plugs, especially useful in professional installations, are wired as follows :

- 1 - Grounding, Shielding.
- 2 - Hot.
- 3 - Cold.

Connect the speaker cables to the red and black terminals accessible in the back of the amplifier.

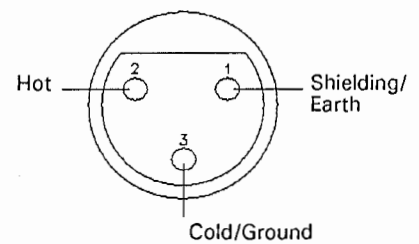


220 Volts connections



110 Volts connections

LINE VOLTAGE WIRING
(located on the top of front
pannel printed board)



NEUTRIK PLUG WIRING

You may notice that the ground of the input plug and the black speaker terminal are the same polarity. The amplifier is non-inverting in phase.

5 . AMPLIFIERS CONTROLS

On the front plate of the GOLDMUND MIMESIS 3 amplifier you will find only two POWER keys.

The two POWER keys have to be activated simultaneously to power the amp on.

This security feature is provided to avoid any fortuitous power on or power off.

When the two keys are pressed simultaneously, the amp switches on and the center green led lights on showing the amp is ON.

The amplifier is immediately operative, without delay.

The amp may be powered off by pressing simultaneously the two POWER keys at any time. The green led will fade slowly, indicating discharge of the filtering capacitors.

6 . SOUND QUALITY OPTIMIZATION

6 .1 Warm-up sonic effect.

If the power amplifier has been powered off for some time, the optimum sound quality is only reached after several minutes. The critical circuits have to warm up to around +55 degrees Celsius (+131 degrees Fahrenheit). When the amplifier has been used recently, the optimum is reached after only 10 to 15 minutes.

6 .2 Speaker polarity.

Even if you have a phase inverter on your preamplifier (as on the GOLDMUND MIMESIS 2), and even if you have carefully selected the proper line phase (see in next paragraph), there is a possibility to again increase the sonic quality of your speakers by reverting the polarity of the speaker cable amp termination. But since the line phase and the speaker polarity interfere to each other, you have to experiment carefully all the combinations before picking the right one.

If your preamp has an absolute phase inverter, this will interfere too. If it has not, don't forget the result will depend of the source, most of the record and CD being recorded without care for the absolute phase. Be patient..

6.3 Main line phase inversion.

The GOLDMUND MIMESIS 9 amplifier provides a very innovative feature : A main line phase selection. To select the proper phase, you have to select, by trying, one of the two power cord receptacle, each being wired in opposite phase.

ATTENTION : Before removing the protective cover of the second receptacle, remove the power cord from the wall plug.

Attempting any connection when the two receptacles are open can be extremely dangerous. Always replace the cover on the unused receptacle before reconnecting the cable to the wall plug.

We recommend that you proceed carefully to try this. You must do it in combination with the speaker polarity and/or with absolute phase switching to be sure of the result.

6.4 The GOLDMUND exclusive "Mechanical grounding".

In the GOLDMUND MIMESIS 9 amplifier, GOLDMUND has, more than in any other of its components, fully implemented an optimized vibration evacuation path. This is called by GOLDMUND "Mechanical Grounding". The perfect adjustment of this evacuation provides the MIMESIS 9 with an extraordinary dynamic capability and transparency, especially on low efficiency speakers.

To get all the benefits of this design, the MIMESIS 9 must be located on a very rigid support, or better directly on the floor, to be directly coupled with the building rigid construction. Try various location until you find the most rigid one. Avoid any decoupling material, carpet especially, even between the furniture and the floor. Use the three pin-point feet to couple the amplifier to the supporting furniture or to the floor.

With a very top system, the sonic improvement when the proper grounding is found is obvious and worth the try.

7. SAFETY FEATURES

The GOLDMUND MIMESIS 9 amplifier provides unique and very sophisticated features to protect the amplifier and the speakers against all mishandle or component failure.

7.1 Protection against DC.

The MIMESIS 9 is a DC-coupled amplifier. If the associated preamplifier is badly designed or defective (often true for the tube preamps), the speakers could be damaged. The detection circuit of the MIMESIS 9 is totally immune to any sonic effect but will immediately switch off the speakers if such a malfunction occurs.

The speaker will be immediately and automatically reconnected as soon as the perturbation disappears.

7.2 Protection against HF oscillations.

In the same way, the speaker will be disconnected if a large amount of high frequency oscillation is present and shows a danger for the tweeters, even if these frequencies remain unnoticed.

The amplifier returns to normal if the oscillation disappears.

ATTENTION : When no input cable is connected, the protection may avoid the speaker to be connected, depending on the RF situation in your area.

7.3 Overheating protection.

If for any reason (malfunction, too high level, too low load impedance) the temperature of one channel reaches a dangerous level, the MIMESIS 9 switches off automatically, and disconnect the speakers. A red light "TEMP" shows the disconnection on the front plate. As soon as the temperature is returned to normal, the amp starts again automatically and the "TEMP" red led switches off, indicating a return to normal function.

Despite this automatic temperature monitoring, it is strongly recommended to try to detect why the temperature has reached such a level before operating the amp again.

7.4 Protection against short-circuits.

If one output is short-circuited by accident and the current becomes too high, one of the rail fuse may blow. To indicate that the fuse is blown a FUSE red led will glow indicating which channel and which fuse blow.

To replace the defective fuse, switch the amplifier off for 10 minutes first. Then open the top cover. The fuses are located on the two circuits, behind the large filtering capacitors. If the left led of the channel glows, the left fuse must be replaced. If the right one is glowing, replace the right fuse.

You must use a 8 Amps fast fuse or 10 Amps ultra-fast in these positions.

Then put the cover back in position and switch the power on if the short-circuit has been detected and removed.

To avoid the fuses to blow, avoid to short-circuit the output terminals accidentally. Always switch OFF the amp before trying any manipulation of the speaker cables.

There is no risk to leave the speaker terminals unconnected when the amp is on.

8. MAINTENANCE

The GOLDMUND MIMESIS 9 amplifiers usually requires no maintenance. For the audio purists who want to keep their amp sounding as new, we only recommend that after a year or two, you have a technician or an official GOLDMUND representative readjust the DC offset. This very simple operation takes only two minutes and will give you the safety of long years of unmatched sound quality.

To clean your MIMESIS use only a soft cloth slightly wet. Always turn the power off before cleaning your amplifier.

TECHNICAL DATA

POWER

- Nominal Power : 2 x 175 W RMS (2 - 8 Ohms).
: 2 x 100 W RMS (1 - 16 Ohms).
- Maximum Power : 2 x 350 W RMS (3 Ohms).
- Maximum Voltage Swing : 55 V eff peak.
- Maximum Current Swing : 35 A peak.

These figures for both channels driven.

FREQUENCY RESPONSE

These figures are valid for any level between 0 and nominal power.

- +/- 0.1 dB, 0 - 150 kHz, +/- 1 dB, 0 - 500 kHz.
- +/- 3 dB, 0 - 1 MHz.

INPUT SENSITIVITY

- Nominal Level : 1.55 V (+ 6 dB).
- Input Impedance : 50 kOhms.

GROUP DELAY

- Propagation Delay < 100 ns stable with frequency from DC to 200 kHz.

DISTORTION

Figures valid for all levels from 0 to 25 V / 8 Ohms :

- Dynamic : TID < 0.01 % (- 80 dB).
- Static : THD < 0.01 % (- 80 dB).

SPEED

- Slew Rate : > 100 V/us
- Rise Time : < 500 ns.

CROSSTALK

- Separation : > 100 dB between channels. Isolated ground.

NOISE

- Signal to Noise Ratio : > 115 dB (20 Hz - 20 KHz).
- Weighted ASA A : > 120 dB.

OPERATING TEMPERATURE

- Room Temperature : -30 to + 40 degrees Celsius (-22 to + 104 degrees Fahrenheit).
- Internal Temperature : + 45 to + 65 degrees Celsius (+ 113 to + 149 degrees Fahrenheit).

POWER SUPPLY

- Nominal Line Voltage : 117, 234 V (by internal wiring).
- AC Voltage Range : +/- 10 %.
- Maximum Power Consumption : 1200 W.
- Standby Power Consumption : 80 W.
- 4 Toroidal Transformers, 8 Separated Power Supply.

GROUNDING

- Separated Ground for Each Channel.
- Floating Chassis connected to Mains Earthing.

SAFETY FEATURES

- DC Protection Threshold : +/- 5 V.
- HF Protection Threshold : 3 V RMS at 50 kHz.
- Thermal Protection Threshold : 90 deg C (194 deg F).
- AC Line Fuse : min 5 A slow-blow for 220 V / 8 A slow-blow for 110 V.
- Overload Protection : 4 fast fuses 10 A.

FRONT PANEL CONTROLS

- 2 POWER Keys.
- Protection against accidental power off.

REAR PANEL CONNECTORS AND CONTROLS

- Power Cord: 2 x universal socket 3 lugs providing line polarity control.
- Main Fuse (8A slow-blow 110V / 5 A slow-blow 220 V).
- Green-yellow mains earth binding post.
- Output Speaker 4 X 5 ways post.
- Input Connector RCA (right and left).
- Input Connector XLR for symmetrical input (right and left).

SIZE AND WEIGHT

- 48.3 cm (19") W x 48.3 cm (19") D (+ 5 cm (2") for handles) x 25.4 cm (10") H.
- Weight : 65 kg net.

WARRANTY

- 10 years parts and labor.