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**USER MANUAL**  
GOLDMUND PH3  
Phono Preamplifier



Congratulations.

Thank you for purchasing the Goldmund PH3 Phono Preamplifier.

You have acquired the best Phono Preamplifier ever made for professional and domestic uses. Please take some time to read this manual. It may provide you with useful information to make your pleasure of listening to the PH3 even higher.

## INTRODUCTION

### GOLDMUND PH.3 Phono Preamplifier

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Goldmund was founded in 1978 and has ever since been dedicated to the accurate reproduction of sound and image.

At Goldmund, we strive to lead in the creation, development and manufacture of the industry's most advanced technologies, including audio and video systems, home-networking and music distribution.

The guiding principle at Goldmund is to produce a precise sound with the latest possible loss of quality through the different stages. Goldmund will never adopt a technology before it is sufficiently developed to satisfy the high quality standards we set. This is why Goldmund has often rejected mainstream technologies and developed its own.

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## W A R N I N G!

No connection or manipulation must be done before reading these instructions. Damage to the Phono Preamplifier may result if the following instructions are not consciously understood and applied.

This extremely high quality Preamplifier possesses new technical features which are a necessity for accurate sound reproduction in the best audio systems.

Only careful installation and use can provide the satisfaction you are expecting.

The installation instructions must be carried out in full and the mentioned precautions taken to get the expected result and to avoid impairing performance.

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# 1 SETTING UP THE PH3

## 1.1 UNPACKING

You will find in the GOLDMUND PH3 box:

- The Phono Preamplifier.
- The power cord.
- This manual.

### **ATTENTION**

Please keep the packaging in case you need to transport the PH3 at a later date or if you have to send it for maintenance.

This packaging has been designed specifically to protect the PH3 in transit. Use of alternative packaging is likely to result in damage, invalidating warranty cover.

## 1.2 CHOICE OF PHONO PREAMPLIFIER LOCATION AND COOLING

The Goldmund PH3 phono preamplifier does not generate a significant amount of heat. The performance of the phono preamplifier is however directly related to its thermal stability. The PH3 must therefore be located to allow adequate cooling of the heatsink without over-ventilation.

Avoid stacking the PH3 with equipment generating heat.

Avoid locating the PH3 in direct proximity to any power amplifier, as the field generated by some units can be detrimental to performance of phono preamplifiers.

# 1 SETTING UP THE PH3

## 1.3 LINE VOLTAGE ADJUSTMENT

The factory setting for the line voltage is indicated on the serial number plate. Please verify that this is appropriate for your AC line voltage before connecting mains power. The selection can be changed using the line-voltage selector on the rear panel.

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### **ATTENTION**

At the 220V position, the GOLDMUND PH3 Phono Preamplifier will function properly for main line voltages in between 200V and 250V.

At the 110V position, the main line must deliver between 95V and 125V.

If your AC line is usually outside of these tolerances, please consult your GOLDMUND dealer.

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Please check the value of the AC line fuse. This fuse is located in the power cord receptacle. The lid can be removed with a small flat-head screwdriver when the powercord is removed.

Use a 0.5A delayed fuse for 220V and 1A delayed fuse for 110V.

# 1 SETTING UP THE PH3

## 1.4 CONNECTIONS

Connect the power cord to the back of the PH3 and plug it into the nearest wall socket. Use a 3 lug grounded plug for safety.

To get the best sound from the PH3, avoid any multiple plugs or extension cords.

Connect the input interconnects between the phono preamplifier and the turntable.

If you are using a moving-coil cartridge select the inputs marked MC-L and MC-R. To connect a moving-magnet cartridge use the inputs marked MM-L and MM-R.

Note: Both inputs can be connected simultaneously if no hum is generated. In that case, the front panel selecting the inputs acts a source selector between the two cartridges or tone-arms.

Plug the output interconnects from the RCA female sockets (labeled “output”) to the preamplifier.

## 2 OPERATING UP THE PH3

### 2.1 REAR PANEL CONTROLS

#### **POWER ON**

When first powered on, the preamp will become operative only after approximately two minutes of warm up. This ensures proper stabilization of the circuitry and avoids any unwanted noise. After this delay, the output of the preamplifier is connected to the output connectors.

**Note:** The GOLDMUND PH3 phono preamplifier should remain connected at all times.

If the power cord is accidentally disconnected, a special safety circuit switches the preamp to muting, to avoid any disturbance to reach the power amplifier and the speakers, even in case of a power failure in the building.

It is normal for a slight sound to be heard from the speakers when the Phono Preamplifier is turned ON or OFF. The PH3 is self-protected and the sound heard is corresponding to the charging and discharging of the capacitors.

#### **INPUT MM/MC SELECTOR**

This front panel switch controls which input is used: the Moving Magnet or the Moving Coil input.

#### **GAIN**

Level adjustment acting simultaneously on both channels for both the moving coil and the moving magnet sources.

## 2 OPERATING UP THE PH3

### BACK PANEL IMPEDANCE SWITCHES

Six switches are located around the preamplifier input connectors. These switches individually adjust the loading of each input separately for each channel. For Moving Magnet inputs, both resistive and capacitive load can be adjusted. For Moving Coil inputs, only resistive load can be adjusted.

Each switch has nine positions, numbered 1 to 9. The table below indicates the values applied for each selector position:

**\* Selector MC R-Load**  
(Moving Coil Resistance)

The following values are parallel resistance load applied to the MC inputs. One selector controls the right input, the other one the left input.

Switch position	Load applied on the input
1	- 10 Ohms
2	- 20 Ohms
3	- 50 Ohms
4	- 100 Ohms
5	- 470 Ohms
6	- 1.5 kOhms
7	- 4.7 kOhms
8	- 15 kOhms
9	- 47 kOhms

## 2 OPERATING UP THE PH3

### \* Selector MM R-Load (Moving Magnet Resistance)

The following values are parallel resistance load applied to the MM inputs. One selector controls the right input, the other the left one.

Switch position    Load applied on the input

1	-	50 Ohms
2	-	220 Ohms
3	-	1 kOhms
4	-	5 kOhms
5	-	10 kOhms
6	-	20 kOhms
7	-	33 kOhms
8	-	47 kOhms
9	-	100 kOhms

### \* Selector MM C-Load (Moving Magnet Capacitance)

The following values are parallel capacitors load applied to the MM inputs. One selector controls the right input, the other the left one.

Switch position    Load applied on the input

1	-	20 pF
2	-	50 pF
3	-	100 pF
4	-	220 pF
5	-	470 pF
6	-	1 nF
7	-	2.2 nF
8	-	4.7 nF
9	-	Off

## 2 OPERATING UP THE PH3

### 2.2 FRONT PANEL CONTROLS

On the front panel of the GOLDMUND PH3 Phono Preamplifier you will find only one switch and two Leds.

To start playing the Phono Preamplifier, turn the power switch ON. The Phono Preamplifier is operative immediately and the green Led indicates it is operating normally.

The yellow Led indicates that the digital signal is locked on a source when the digital input is in use.

### 2.3 SOUND QUALITY OPTIMIZATION

If the PH3 has been left unpowered for some time, the optimum sound quality may only be reached after many hours. The critical circuits must warm to around +50 degrees C (+120 degrees Fahrenheit) for optimum performance.

### 2.4 MAINTENANCE

The GOLDMUND PH3 Phono Preamplifier usually requires no maintenance.

Always turn the power off before cleaning your Phono Preamplifier. Use only a clean, soft, damp cloth. Dampen with water or a mild detergent solution. Avoid abrasive or harsh cleansers (eg. products containing sodium carbonate).

### 3 TECHNICAL DATA

- Gain MM input: 43dB (low) and 50dB (high).  
Gain MC input: 63dB (low) and 70dB (high).  
RIAA curve: -0.03 dB / +0.06 dB max derivation from RIAA curve.  
Gain Stage response: - 3dB 0.12Hz - 760 kHz at 70dB gain (without RIAA correction).  
Slew rate: > 80 V/us.  
Rise time: < 400 ns.  
Distortion: < 0.007% (20Hz-20kHz at 4V rms output).  
Output Impedance: 50 Ohms.  
Max output level: 32Vpp POWER.

