

**GOLDMUND SRI2  
INTEGRATED AMPLIFIER**

USER MANUAL

# **GOLDMUND SRI2 INTEGRATED AMPLIFIER**

## **USER MANUAL**

*ATTENTION :*

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

## 1 - UNPACKING

You will find in the GOLDMUND SRI2 box :

- The amplifier.
- The remote Controller
- The power cord.
- This manual.

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 SRI2 amplifier generates a very important amount of heat. It is mandatory to allow a proper cooling of the heat sink. Avoid any location which is not properly ventilated and avoid to put on top any equipment sensitive to temperature.

**ATTENTION :** The fact that the heat sink can reach high temperature is not detrimental but favorable to the sonic quality of the unit which is self-protected. It is perfectly normal that the heat sink becomes too hot to be touched.

## 3 - AC LINE VOLTAGE

A voltage indication is provided on the back plate of the unit. Check if this is appropriate for your AC line voltage.

**ATTENTION :** With a 220V setting, the SRI2 amplifier will function properly for AC line voltage between 200V and 250V. On the 110V position, the AC mains must deliver between 95V and 125V. If your AC line voltage is usually out of these tolerances, please consult your GOLDMUND dealer.

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

Use a 3A slow-blow fuse for 220V and a 5A slow-blow fuse for 110V.

## **4 - CONNECTIONS**

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

To get the best sound of the amplifier, avoid any multiple plug or extension cord.

Connect the interconnects between the sources and the amplifier. Plug the cables to the RCA female sockets noted input 1 to 5. Connect the tape machine to TAPE IN and TAPE OUT input and output RCA plugs.

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

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**

### **- POWER**

On the back panel of the GOLDMUND SRI2 amplifier you will find the POWER key, used to power the amp on.

After a very short delay the two channels are connected and the POWER led switches on.

The amp may be powered off by turning off the POWER key at any time. The led will fade very slowly, indicating discharge of the filtering.

### **- VOLUME**

Level adjustment acting simultaneously on both channels (see also Remote-Control below).

### **- MUTE**

The right switch turns off the signal of the amplifier, without disconnecting the power supply. It can be used to turn temporarily the volume down without touching the volume control.

### **- TAPE MONITOR**

This switch, when pushed down, allows the monitoring of the TAPE machine connected to the TAPE INPUT and TAPE OUTPUT back panel connector.

### **- SELECTOR**

This selector allows to choose the source from one of the 5 inputs.

### **- REMOTE-CONTROL**

The SRP2 uses a volume motor-driven potentiometer which can be adjusted by the remote controller provided for increasing (+) or decreasing (-) the sound level.

In addition a "MUTING" control with soft stop and start is available through the remote control which acts on the potentiometer.

The additional "MEMO" key on the remote allows to pre-program a standard level to which the potentiometer will return when the unit is powered on or when the "RESET" key is pressed.

**Attention :** If the potentiometer position you want to memorize is above the potentiometer's half position, it won't be memorized and a value of  $\frac{1}{4}$  will be memorized instead. This is provided by the software as a safety to avoid very high level memorization by accident with potential danger for the speakers the next time the unit is turned on.

## 6 - SOUND QUALITY OPTIMIZATION

### ***- Warm-up sonic effect.***

If the amplifier has been left unpowered for a few days, the optimum sound quality is only reached after few minutes. The critical circuits have to warm up to around +55 degrees Celsius (+131 degrees Fahrenheit) before achieving their optimal performances.

### ***- Speaker polarity.***

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.

### ***- AC line phase inversion.***

The sonic quality of your SRI2 can be greatly improved if the main AC line is connected with the proper polarity.

Try to invert the plug of your amplifier, using a special adapter.

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

## **7 - MAINTENANCE**

The GOLDMUND SRI2 amplifier usually requires no maintenance. For the audio purists who want to keep their amplifier 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 few minutes and will give you the safety of long years of unmatched sound quality.

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

## **TECHNICAL DATA**

### **POWER**

- Nominal power : 2 x 125 W RMS (2 - 8 Ohms). 2 x 80 W RMS (1 - 16 Ohms).
- Maximum power : 2 x 200 W RMS (3 Ohms).
- Maximum voltage : 35 V peak. - Maximum current : 25 A peak.

### **FREQUENCY RESPONSE**

These figures are valid for the circuit alone, at any level between 0 and nominal power.

- +/- 0.1 dB, 20Hz - 100 kHz.
- +/- 1 dB, 10Hz - 200 kHz.
- +/- 3 dB, 2Hz - 0.50 MHz.

### **INPUT SENSITIVITY**

- Nominal level : 300 mV.
- Saturation level : > 30 V RMS.
- Nominal input impedance : 25 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 : < 700 ns.

### **CROSSTALK**

- Separation : > 90 dB between channels.

**NOISE**

- Signal-to noise ratio on line input : > 85 dB (0.01 Hz - 10 Mhz).
- Weighted ASA A : > 90 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 : 110, 220 V (selectable).
- Input voltage range : +/- 10 %.
- Maximum power consumption : 500 W.

**SAFETY FEATURES**

- DC protection threshold : 5 V.
- HF protection threshold : 3 V RMS at 50 kHz.
- Input voltage fuse : 3 A slow-blow for 220 V / 5 A slow-blow for 110 V.
- Short-circuit protection : 2 fuses 5 A fast minimum.

**GROUNDING**

- Separated ground and earth signal.
- Connection optional between earth and ground to cancel all ground loops.
- Chassis connected to signal grounding.

**FRONT PANEL CONTROLS**

- VOLUME control.
- POWER switch.
- TAPE MONITOR switch.
- SELECTOR switch.

**REAR PANEL CONNECTORS AND CONTROLS**

- AC line connector 3 lugs.
- Earthing post (yellow-green).
- AC voltage switch (110V-220V)
- Speaker Output binding posts (right and left).
- Input and tape output RCA connectors (right and left).
- Signal grounding post (black).

**SIZE AND WEIGHT**

- 48.2 cm (19") W x 34 cm (13.4") D x 7.2 cm (2.8") H.
- Weight : 12 kg.

**WARRANTY**

- 3 years parts and labor.