

GRID PROTECTOR



Dear customer,

Thank you for your purchase of a SCHNERZINGER product.

Please take the time to precisely read the information in this guide. You will find important instructions to use your product and hints for the optimal integration into your Hi-Fi system.

This guide facilitates your use of the product, promotes understanding its functional characteristics and helps you to obtain the full efficiency of the product.

We hope you enjoy your new SCHNERZINGER product.

Please clean the product with a nonscratching dry duster only. Avoid using cleaning agents.

In case of malfunctions contact your SCHNERZINGER dealer. Please do not attempt to service the device yourself or to open it, in that case you will lose your entitlement for our manufacturer warranty.

In the case of damages at the power plug or power cable please initiate an exchange at SCHNERZINGER via your dealer.

Package Contents

GRID PROTECTOR

CONTROL UNIT

12V Power Supply, cable length 1,5m

3,5mm jack extension cable 5m

Antenna

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PROTECTOR SYSTEM

The music reproduction quality of an audio system is highly affected by low and high frequency electrical interfering fields, caused by Wi-Fi, cellular radio, power lines etc. With the **PROTECTORS** and their integrated trendsetting **GIGA-PULSE** technology, SCHNERZINGER has developed a product category that actively eliminates the sonic effects of low and high frequency interfering fields.

The **PROTECTORS** significantly enhance the transmission quality of audio systems. The sonic effects include an astonishingly higher spatial depth and resolution as well as increased broad and fine dynamics in music reproduction.

Utilizing the operating principle and efficiency of the GIGA-PULSE technology, the SCHNERZINGER **PROTECTORS** represent a unique solution in the market.

An important health aspect: protector technology does not increase radiation exposure within the room.

GRID PROTECTOR

The GIGA-PULSE technology of the **GRID PROTECTOR** penetrates and clears up the entire domestic power grid from sound damaging interfering fields, caused by the electrical devices in the home (computer, refrigerator, cooktop, router, etc.).

Due to GIGA-PULSE technology the **GRID PROTECTOR** can do without problematic filters and passive components like capacitors, which are responsible for loss of dynamics, resolution and naturalness; especially at high power requirements of the power grid.

The operating principle and efficiency of the **GRID PROTECTOR** are unique; a single **GRID PROTECTOR** raises the potential of the entire music system to a new level.

Setting up a SCHNERZINGER system

Recommendation for the first setting resp. resetting of several SCHNERZINGER components:

1. Step:

Connect all components

- with the power circuit, if required (see manual)
- with the Hi-Fi devices (GROUND, SPEAKER AMP)

2. Step:

Set all switches at all components to basic setting (switches to position 0).

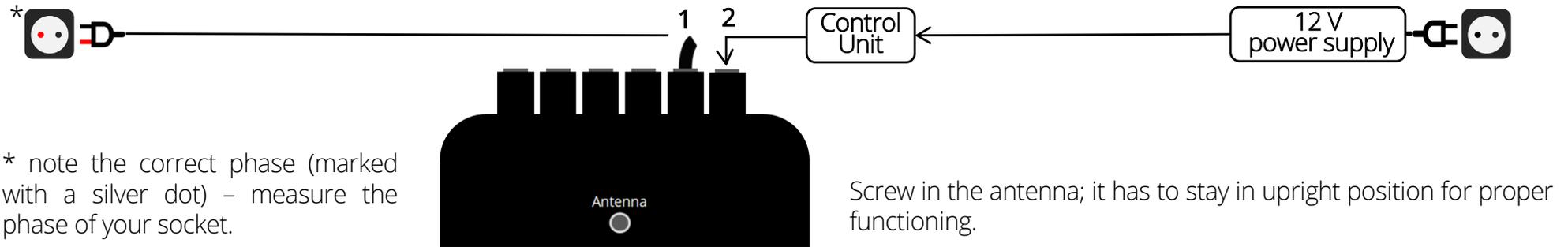
3. Step:

Test each component **one after the other** for its optimal setting according to the manual, with the following configuration sequence:
CABLES, GROUND PROTECTOR, GRID PROTECTOR, POWER GUARD, OPERATOR/NEW INNOVATOR, SPEAKER AMP PROTECTOR, EMI PROTECTOR, GIGA PICCOLO PROTECTOR, GIGA GUARD, GIGA PROTECTOR

If you add your device to an already existing SCHNERZINGER chain, outstanding results will be obtained mostly when all devices will keep their former settings and just the additional product will be installed and configured as described in its manual.

If this does not provide satisfactory results, we recommend a complete system resetting.

Connecting the GRID PROTECTOR to the power grid



* note the correct phase (marked with a silver dot) – measure the phase of your socket.

Screw in the antenna; it has to stay in upright position for proper functioning.

1

The connection* of the **GRID PROTECTOR** to a power circuit separately from the Hi-Fi system – ideally with a different power phase - will obtain the best result mostly.

If this is not possible in your listening room, it's worth to test the operation of the GRID PROTECTOR in a suitable different room.

If the GRID PROTECTOR will be connected to a power strip (not the Hi-Fi power strip), it should occupy the first slot - the connection at the first slot of the Hi-Fi power strip may have successful results rarely.

2

Connection of the **CONTROL UNIT** and the **12V power supply**.

The CONTROL UNIT will be connected to the PROTECTOR and the 12V power supply will be connected to the CONTROL UNIT.

The 12 Volt power supply of the GRID PROTECTOR should not be connected to the Hi-Fi system power circuit.

The GRID PROTECTOR may be used without the 12V power supply. This supports a flexible placement of the unit. But in this case it should be connected to the grid with CONTROL UNIT and 12V power supply once a year for 15 minutes.

Mostly a better result will be achieved, when the 12V power supply is permanently connected.

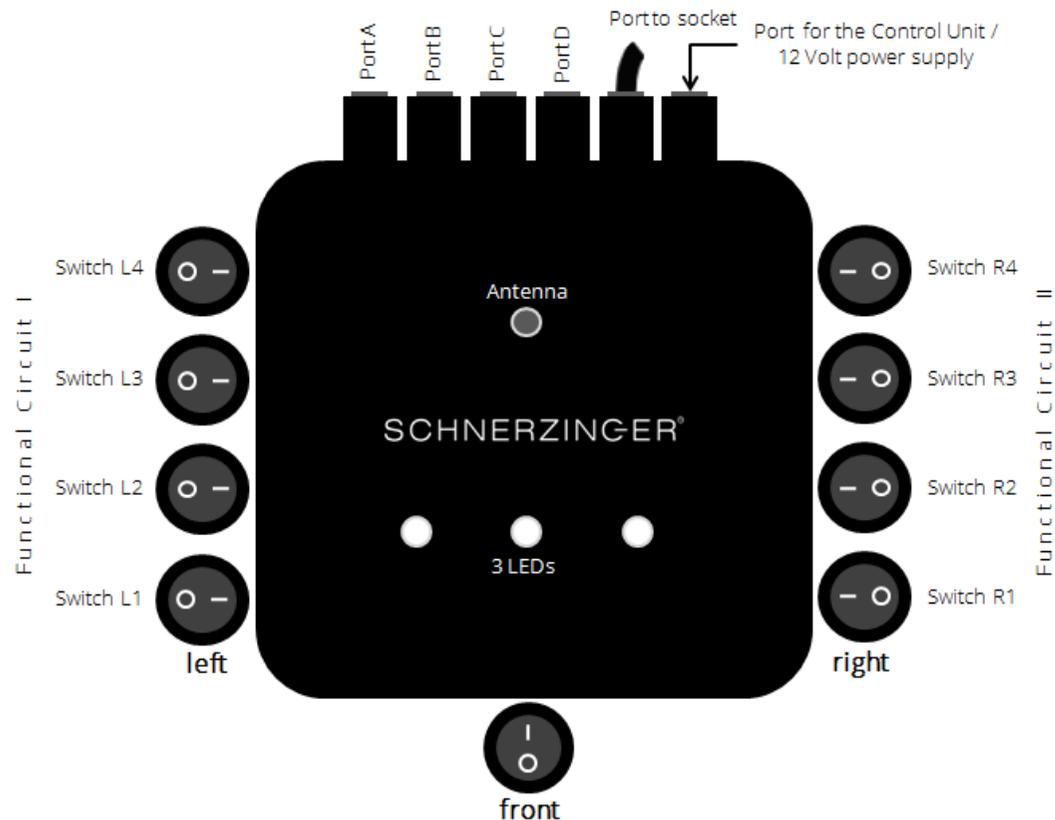
The other ports are reserved for PROFESSIONAL LINE accessories.

Setting up the GRID PROTECTOR

The **GRID PROTECTOR** has an additional GIGA-PULSE amplifier and two functional circuits, allowing to optimally calibrate the unit to the respective interference field spectrum of the environment (e. g. WLAN, mobile communication, DECT, Bluetooth, radio waves and other interfering sources).

Changes need some time to take effect mostly. Therefore at each of the following steps you should wait for app. two minutes before judging.

Do not change the results as determined from the previous steps when you do the subsequent steps.



1. Step:

Set all 9 switches to base setting 0.

2. Step: Switch in front:

Activating a **GIGA-PULSE amplifier**.

0 = Power Level 1 (without CONTROL UNIT and 12V power supply)

0 = Power Level 2 (with CONTROL UNIT, without 12V power supply)

1 = Power Level 3 (with CONTROL UNIT and 12V power supply, LEDs on)

3. Step: Switches left:

Functional circuit I – setting the **GIGA-PULSE bandwidth**

Switches: L1 = narrow to L4 = wide

Starting from the base setting the switches L1 - L4 will be set sequentially from position 0 to position 1. Each step will increase the bandwidth.

If the bandwidth is too low, the best possible effect will not be reached yet. If the bandwidth is too high, even a sound degradation may occur.

The test ends, when the subsequent step won't achieve a better result.

4. Step: Switches right:

Functional circuit II – setting the **GIGA-PULSE clocking**

Switches: R1 = low to R4 = high

Starting from the base setting the switches R1 - R4 will be set sequentially from position 0 to position 1. Each step will increase the clocking pace.

If the pace is too low, the best possible effect will not be reached yet. If the pace is too high, even a sound degradation may occur.

The test ends, when the subsequent step won't achieve a better result.

Lasting Effect of the GRID PROTECTOR

The **GRID PROTECTOR** constantly operates to clear up interfering fields effectively and comprehensively.

If after a while you once want to hear the performance of your system without your GRID PROTECTOR, the buffering effect absolutely has to be considered.

If the GRID PROTECTOR is switched off for a short time only, it still takes effect because of the buffering of the power supply unit.

Disconnect the 12V power supply and the CONTROL UNIT from the power grid and the GRID PROTECTOR resp. and detach the power cable of the GRID PROTECTOR from the power grid. Additionally bend the antenna at the hinge into a horizontal position and place the unit on the floor. Keep these conditions for several hours, preferably overnight. This way you achieve that the GRID PROTECTOR has no effect any more.

Upon recommissioning the interfering fields will be cleared again fast.

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