

GIGA 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

GIGA PROTECTOR (2 units)

CONTROL UNIT (2 units)

12V Power Supply, cable length 1,5m (2 units)

3,5mm jack extension cable 5m (2 units)

Antenna (2 units)

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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.

GIGA PROTECTOR

The **GIGA PROTECTOR** is an innovative GIGA-PULSE controlled 12-channel high-frequency interfering field elimination system for the entire listening room. It consists of a two communicating devices, which protect the environment wide-ranging and broadband from losing sound quality due to high frequency interfering fields.

The **GIGA PROTECTOR** can be specifically configured so that beside the adjustment to the respective room situation even particular frequency areas can be triggered to allow for direct sound correction in the high-, mid- and low frequency area.

To adjust selective interfering field peaks there are the products **EMI PROTECTOR** and **GIGA PICCOLO PROTECTOR**.

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).

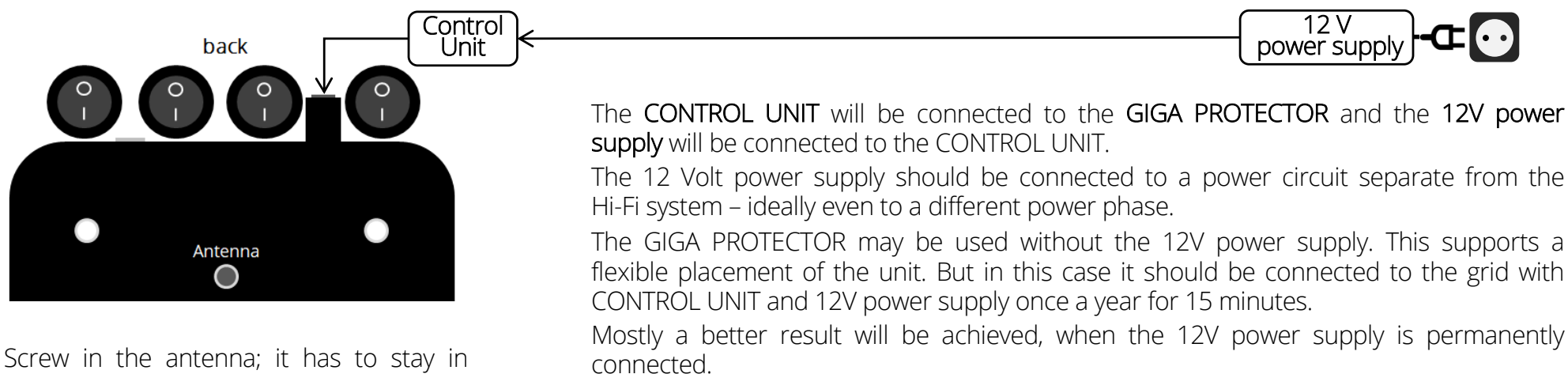
3. Step:

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 GIGA PROTECTOR to the power grid



Optimal Positioning

The placement of both **GIGA PROTECTOR** devices within the room is particularly important. For maximum impact Schnerzinger recommends to test different variants.

Recommended placement, in descending order:

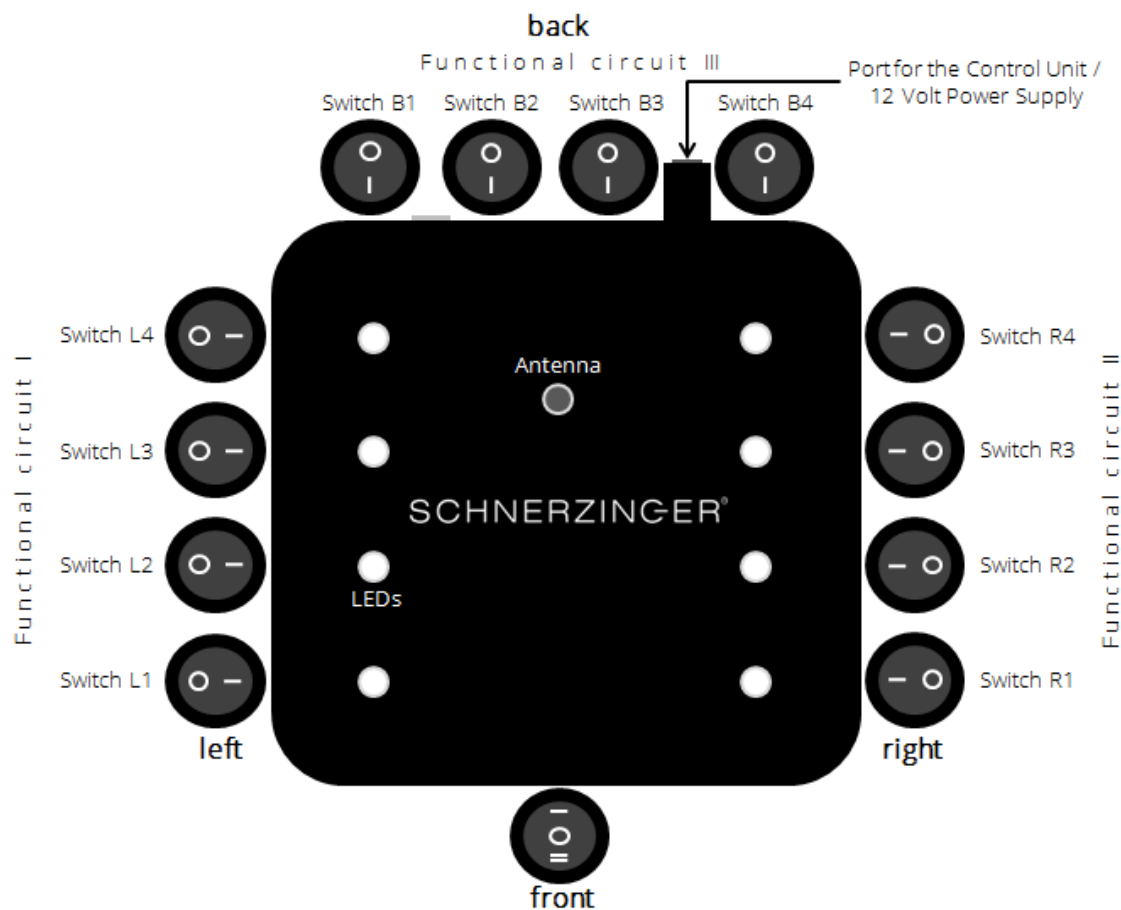
1. diagonal front right (beside or behind the speaker) and rear left, or diagonal front left (beside or behind the speaker) and rear left
2. right and left behind, beside or in front of the speakers
3. Right and left beside the listening position
4. Front and rear, central to the listening room respectively (if no **EMI PROTECTOR** is used)

Setting up the GIGA PROTECTOR

The **GIGA 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.



First set the switches of one device in full, then the second device.

Because each device finds different environmental conditions within the room, the parameter settings of both devices may differ.

1. Step:

Set all 13 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 low)

2 = Power Level 4

(with CONTROL UNIT and 12V power supply, LEDs high)

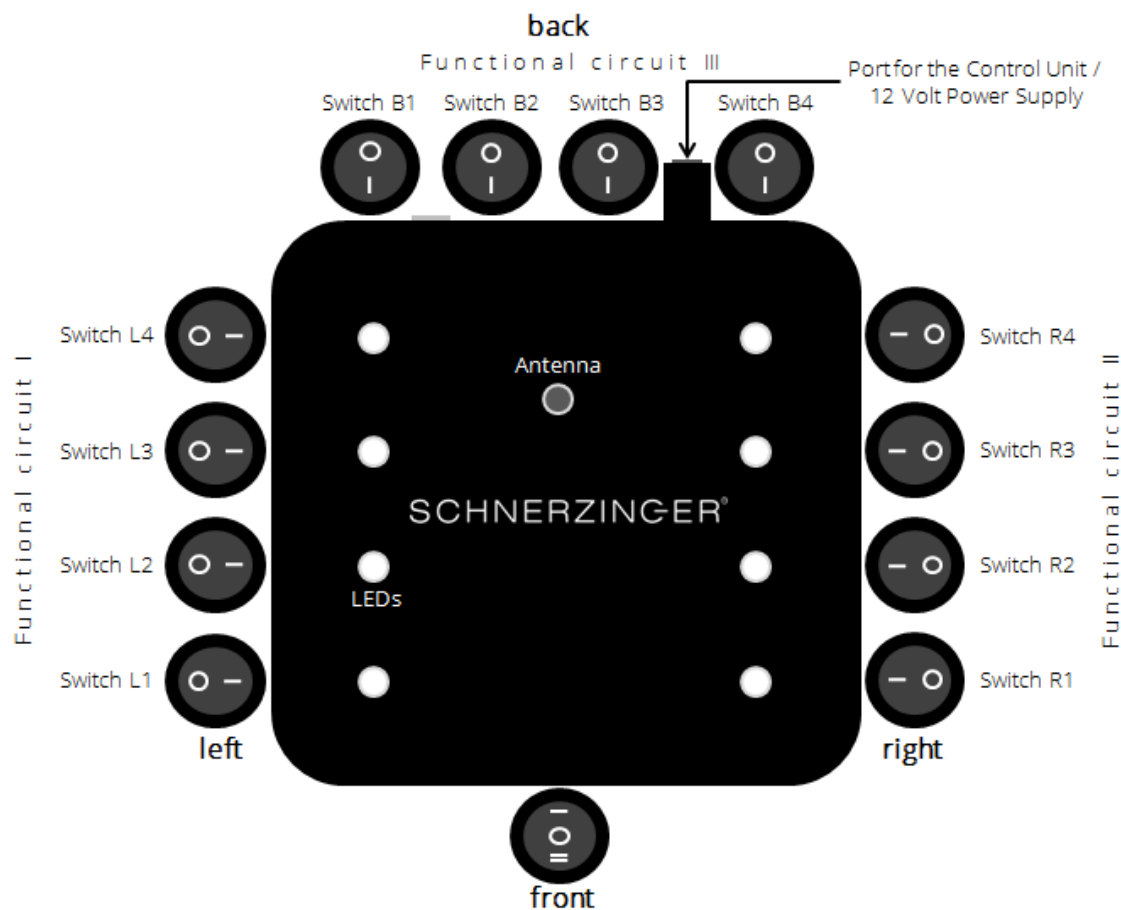
Setting up the GIGA PROTECTOR

3. Step: Switches left:

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

Switches: R1 = narrow to R4 = wide

Starting from the base setting the switches R1 - R4 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.

5. Step: Switches back:

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

Switches: B1 = low to B4 = high

Starting from the base setting the switches B1 - B4 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 GIGA PROTECTOR

The **GIGA 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 GIGA PROTECTOR, the buffering effect absolutely has to be considered.

If the GIGA 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 GIGA PROTECTOR resp. 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 GIGA PROTECTOR has no effect any more.

Upon recommissioning the interfering fields will be cleared again fast.

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