

SPEAKER AMP GUARD



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 HiFi 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 non-scratching dry duster only. Avoid using cleaning agents.

A potting compound in the devices protects the innovative GIGA CANCELING technology with its particular electrical components specially manufactured for SCHNERZINGER against direct access and screening via X-ray or magnetic field applications. A slight rustling caused by this potting compound is normal and does not result in any functional impairment. There are no informed crystals in the devices.

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

SPEAKER AMP GUARD MASTER

12V Power Supply, cable length 1,5m

3,5mm jack extension cable 5m

Antenna

1 resp. 2 **SPEAKER AMP GUARD** sets of 2 units each (incl. antennas)

Dimensions and weight (l x w x h in cm, weight in kg)

SPEAKER AMP GUARD MASTER 7 x 7 x 3.5 (without antenna), 0.3

The antennas are 11 cm long.

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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 CANCELING** 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 CANCELING 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.

SPEAKER AMP GUARD

Protection of the system power amp / speaker via direct plug-in

Wireless controlled SPEAKER AMP GUARDS use GIGA CANCELING technology to clear up internal interfering fields, originating in the system power amp / speaker. From the master unit they receive a dejamming signal, actively penetrating the entire system.

In order to protect the sensitive signal inside the devices against impairment, developers of high grade devices try hard to keep interfering fields low inside of the devices by use of very low stray field components or by shielding enclosures. Problematic power filter or conditioner may help keep external field loads away from the device, but the inner interfering fields, caused by the equipment itself and close to the audio signal, cannot be cleared up this way.

In contrast the SPEAKER AMP GUARD actively operates right in the equipment, in the immediate vicinity of the signal-transmitting components. With its GIGA CANCELING technology, it protects the sensitive components of the speaker crossover, the power amplifier and the speaker cable from sound damaging electrical interfering fields. This makes it an unrivaled solution on the market.

Connecting the SPEAKER AMP PROTECTOR to amplifier resp. speaker

The **SPEAKER AMP GUARD MASTER** may control one or more SPEAKER AMP GUARD sets of two units each, which are connected to the terminal at the speaker or to the speaker terminal at the amplifier. Using two sets can achieve an increase in effectiveness. In the case of special configurations (bi- or multi-amping, bi- or multi-wiring), additional SPEAKER AMP GUARD sets of two units each can be used.

The outputs of the amplifier or the inputs of the speakers are available for the connection to the SPEAKER AMP GUARD units – please test the optimal connection. The white cable is connected to the positive pole and the black cable to the negative pole. To avoid the risk of damage, the amplifier should be switched off during installation.

Screw in the antenna for each individual unit; by turning and bending at the hinge it should be brought into an approximately vertical position for best possible operation. For this purpose, the unit can simply hang down on the speaker, it can also be attached directly to the speaker with small adhesive strips (see picture).



Two recommended connection variants for one SPEAKER AMP GUARD set:

1. Connecting to the amplifier
 - One unit of the SPEAKER AMP GUARD set is connected to the right speaker output, the other to the left speaker output at the amplifier.
2. Connecting to the speakers
 - One unit of the SPEAKER AMP GUARD set is connected to the right speaker, the second unit to the left speaker.

Connection with two SPEAKER AMP GUARD sets:

Connecting one SPEAKER AMP GUARD set to the amplifier and the other to the speakers.

Setting up the SPEAKER AMP GUARD

The SPEAKER AMP MASTER has three power levels to simply adjust GIGA CANCELING technology via a toggle switch. This makes it possible to adapt to any interference field spectrum.

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.

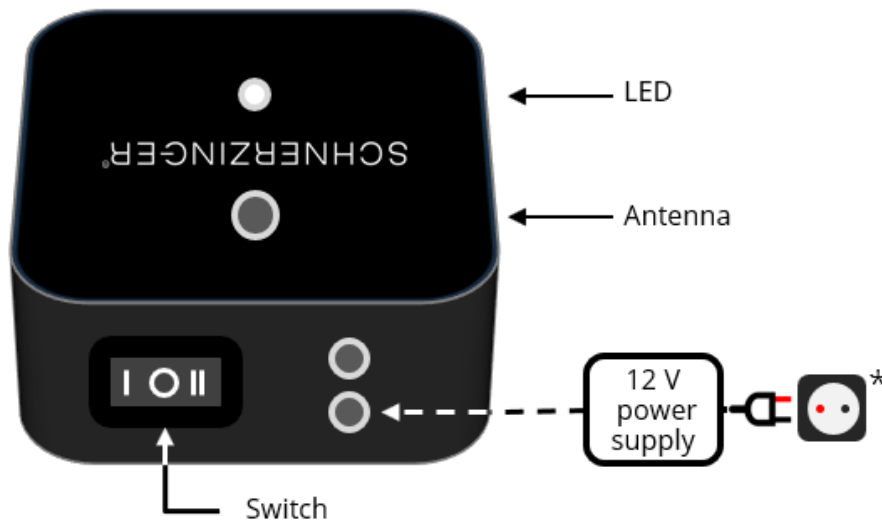
1. Step: Base setting master

The SPEAKER AMP GUARD MASTER should be placed close to the amplifier or between the speakers.

Usually (power level 1), the master will be operated without the 12V power supply. To maintain its performance, it should be connected to the grid with the 12V power supply once a year for 15 minutes.

Connect antenna (upright position) to the master, without 12V power supply.

Set the switch of the master to base setting 0.



2. Step: Connecting to amplifier or speakers

See separate page 3.

3. Step: Switch in front – adjustment of the power level:

If power level 1 is not sufficient for the present interference field spectrum, 2 additional power levels can be activated. This requires the permanent connection of the 12V power supply* to the grid. The 12 Volt power supply should be connected to a power circuit separate from the HiFi system – ideally even to a different power phase.

0 = Power Level 1 – **without 12V power supply**

1 = Power Level 2 – **with 12V power supply**, LEDs on

2 = Power Level 3 – **with 12V power supply**, LEDs high

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

Lasting Effect of the **SPEAKER AMP GUARD**

The **SPEAKER AMP GUARD** 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 **SPEAKER AMP GUARD**, the buffering effect absolutely has to be considered.

If the **SPEAKER AMP GUARD** 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 (if connected) from the power grid and the **SPEAKER AMP GUARD MASTER** resp. Disconnect all **SPEAKER AMP GUARD** units from the devices. Additionally remove the antennas of all units, place the **MASTER** and the **SPEAKER AMP GUARD** units on the floor and set the switch of the master to position 2. Keep these conditions for several hours, preferably overnight. This way you achieve that the **SPEAKER AMP GUARD** has no effect any more.

Upon recommissioning the interfering fields will be cleared again fast.

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