



GROUND 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.

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GROUND GUARD

Available models:

GROUND GUARD 5, 7 or 8 with
5, 7 or 8 device connections (Supply Lines).

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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.

GROUND GUARD

The **GROUND GUARD** extremely effectively clears up grounding resp. ground problems via its 2-channel GIGA CANCELING technology :

- Channel 1 clears up grounding resp. ground problems of the attached devices
- Using the optional **GROUND GUARD PROTECTOR**, channel 2 clears up interfering fields within the HiFi system power distribution, without slowing down current flow at all.

The **GROUND GUARD** already has bidirectional operating device connections (Supply Lines) in SCHNERZINGER EXTREME quality and **BIDIRECTIONAL PROTECTION**. Thus it detects even the smallest earthing or equipotential bonding currents and clears them up completely without allowing further transmission of interfering fields among the connected devices.

Thanks to the application of GIGA CANCELING and **BIDIRECTIONAL PROTECTION** technology the operating principle and efficiency of the **GROUND GUARD** are unrivaled.

Connecting the HiFi Components

The **GROUND GUARD 5, 7 or 8** can be connected to 5, 7 or 8 components (but no speakers*). HiFi Components are connected by the hard connected **Supply Lines**, as specified in the order.

It's recommended to connect all key components of the HiFi system to the GROUND GUARD, starting with the major source, the other sources and further on in the direction of signal flow through the preamp to the power amplifier. The particular HiFi component should be switched off* during installation.

Via the Supply Line options RCA, XLR/W, XLR/M, BNC, USB Type A and Type B the free inputs and outputs (but no speaker terminal*) of the HiFi components are available to connect to the GROUND GUARD.

If a component to be connected has no suitable free input or output, the connection can be done directly to the grounded chassis with the Supply Line Option Chassis Ground.



* Caution – risk of damage

Setting up the GROUND GUARD

1. Step: Connecting the HiFi Components

All system devices should be operated from a single power distributor. The devices are connected to the GROUND GUARD, see separate page 3. The power connection is not yet used, i.e. the sound is first tested without the GROUND GUARD power connection.



2. Step: Optional accessories

The GROUND GUARD has two free CC1 connections. The optional GROUND GUARD PROTECTOR and / or the PROFESSIONAL accessory **GROUND GUARD BOOSTER** can be connected here. A maximum of one BOOSTER may be connected.

The use of one PROTECTOR is sufficient to clean up the interfering fields in the power distributor; a second one increases the effect. Two PROTECTORS can be connected in series to one CC1 connection or one each to both CC1 connections.

3. Step: Connecting to the power grid

The **GROUND GUARD** should be connected* to the first slot of the HiFi power strip or at the next free slot after a SCHNERZINGER GRID PROTECTOR or MULTI GUARD. Test whether operating the GROUND GUARD without a power connection will give better results. In this case, it should be connected to the grid once a year for 15 minutes to maintain its performance.

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

Lasting Effect of the GROUND GUARD

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

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

Detach the power cable of the GROUND GUARD from the power grid. Remove all other connections completely, especially the Supply Lines. Keep these conditions for several hours, preferably overnight. This way you achieve that the GROUND GUARD has no effect any more.

Upon recommissioning the interfering fields will be cleared again fast.

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