



QUIESCENT

Peak Speaker Connection System

User Manual (interim)

Introduction

Thank you for purchasing the either one or more parts of Quiescent Speaker Connection System. This product has been designed and developed after many years of experience in managing damaging forces that exist in all audio and A/V systems. Before installing the components in your system, please read through this manual carefully to ensure you are familiar with the setup and operation. It is important to follow all the safety advice contained within this manual to ensure reliable and trouble-free operation.

General Principles of Operation

The Peak Speaker Connection System uses a modular approach to reducing significant acoustic, RF and EM interference at the amplifier/speaker interface. This allows users to upgrade the performance as and when budgets allow. Each component is designed to work independently from each other but also as a whole where the results are profoundly observation and enjoyable.

Firstly, an overview of the elements of the Peak Speaker Connection System is as follows:

Peak Absorption Module	An ultra-low absorption module designed to sit either behind the power amplifier or speakers. One or more pairs of modules will bring instant benefits to performance through increased rhythm and pace, wider soundstage and less tonal distortion.
Peak Low Noise Speaker Cable	Ultra-low noise Teflon coated four-core solid silver conductors with EMI absorption and anti-vibration braiding to significantly lower system noise.
Peak Links	Ultra-low noise links to replace standard speaker links used in bi-wire configurations

This manual is intended to demonstrate how each of these elements is used and interact with each other as well as how you will be able to connect to other components in your system.

The amplifier/speaker interface is a highly energetic zone where the damage caused by EMI, RFI and acoustic microphony is most severe. Many manufacturers will focus their attentions on ensuring that airborne vibration does not cause damage to small signals, this actually ignores the fact that sound travels much more efficiently through solid materials such as copper or silver than through air. So, sophisticated spring-loaded platforms and isolation techniques may offer some benefit against sound waves travelling through the air or from the floor to the shelving but most of the disruptive microphony is coming down through your speaker cable right into the electronics of your power amplifier and beyond!

Also, as the larger signal is transmitted from your power amplifier, this is also accompanied by electromagnetic waves propagating the length of the cable in addition to radio frequency interference from external influences. Your speaker cable is, after all, also a large antenna!

The general principle of Quiescent components is that these unwanted damaging effects need to be eliminated and by using them as described in this manual, you will be amazed how

much better your overall musical enjoyment will become because the electronics have been protected from them.

Unpacking and Setting Up

Your Quiescent components are packed carefully to ensure that they are not damaged in transit. The packaging for each component is as follows:

Peak Absorption Module	Purpose-built flight cases containing two modules. The captive leads are wound in the circular cut-out to prevent contact with the modules themselves.
Peak Low Noise Speaker Cable	Each cable is packed in a hard plastic foam-lined case.
Peak Links	Each set of four links is packed in a hard plastic foam-lined case.

Carefully remove the components from the cases and retain the warranty cards for each product. These cards are your guarantee of authenticity and required for our Lifetime Support Agreement. Please also keep all packaging for any possible future transit.

With wrapping carefully removed, you are now ready to install.

At all times, please power off your power amplifier before disconnecting/reconnecting speaker cables to avoid any possible shorting that may damage your amplifier or your loudspeakers.

Scenario 1 – Peak Absorption Modules – Single Wire

The Peak Absorption Module is supplied with high-quality binding posts on one end and a flying captive lead at the other. The modules are supplied in pairs (one for each cable) and you can experiment within your own system where they are best placed to get an improvement.

Installation process is as follows:

1. With the power amplifier off, disconnect the speaker cables at either the loudspeaker end or at the back of your power amplifier.
2. Take one Peak Absorption Module and connect the connectors on the flying captive lead to your binding posts (either amplifier or loudspeaker end). Take care to position the modules carefully so as not to stress the cables or connectors when connecting up.
3. Connect the speaker cable to the WBT binding posts on the Peak Absorption Module and tighten up the screws.
4. Follow the steps 1-3 above for the other cable.
5. Ensure that all connections are at the correct polarity and tightly secure.
6. Power up the power amplifier.

You should now be able to listen to your system and hear instant benefits. However, we do find that two weeks burn-in is required before full performance is reached.

Whilst the performance level increase will be significant with one pair of Peak Absorption Modules, the addition of a second pair brings even further improvements. To install a second pair, follow steps 1 through 6 in but place the modules at the other end of the speaker cable to where you had done previously.

Scenario 2 – Peak Absorption Modules – Bi-Wire

In this configuration, you will need Bi-Wire Peak Absorption Modules and your existing speaker links or the optional Quiescent low-noise speaker links.

The installation process is as follows:

1. With the power amplifier off, disconnect the speaker cables at either the loudspeaker end or at the back of your power amplifier.
2. Take one bi-wire Peak Absorption Module and connect the connectors on the flying captive lead to your binding posts on your loudspeakers. Be careful not to stress leads or connectors. The lead outs on the captive lead are marked to show the matching pairs. It is important to ensure that the matching pairs are connected to the pairings on the loudspeaker.
3. Connect the speaker cable to the WBT binding posts on the Peak Absorption Module and tighten up the screws.
4. Connect the speaker links across the binding posts on the Peak Absorption Module ensuring that positive is connected to positive (red to red) and negative to negative (black to black). The banana plugs should be inserted into the binding posts that are connected to your amplifier if you have spades on existing cable. If you have banana plugs on your existing cable, then you should connect the spades to these terminals.
5. Follow the steps 1-4 above for the other cable.
6. Ensure that all connections are at the correct polarity and tightly secure.
7. Power up the power amplifier.

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Scenario 3 – Peak Absorption Modules – Bi-Wire Using Two Single Wire

For a very significant upgrade, the use of two single wire modules at the back of the loudspeakers provides significant more acoustic absorption. In this configuration, you will need two pairs of single-wire Peak Absorption Modules.

The installation process is as follows:

1. With the power amplifier off, disconnect the speaker cables at either the loudspeaker end or at the back of your power amplifier.
2. Take one single-wire Peak Absorption Module and connect the connectors on the flying captive lead to one set of your binding posts on your loudspeakers. Be careful not to stress leads or connectors.
3. Take a second single-wire Peak Absorption Module and carefully place it on top of the first module by locating the recesses with the rubber feet of the second module. Once seated, the module should be able to move in a spring-like action but remain securely fastened in the recesses of the module beneath it.
4. Connect the connectors on the flying captive lead to the other set of binding posts on your loudspeakers.
5. Connect the speaker cable to the WBT binding posts on the lower Peak Absorption Module and tighten up the screws.
6. Connect the speaker links across the binding posts on the lower Peak Absorption Module with those on the one on top. Ensure that positive is connected to positive (red to red) and negative to negative (black to black). The banana plugs should be inserted into the binding posts that are connected to your amplifier if you have spades on existing cable. If you have banana plugs on your existing cable, then you should connect the spades to these terminals.
7. Follow the steps 1-46 above for the other cable.
8. Ensure that all connections are at the correct polarity and tightly secure.
9. Power up the power amplifier.

You should now be able to listen to your system and hear instant benefits. However, we do find that two weeks burn-in is required before full performance is reached.

Peak Low-Noise Speaker Cable

All three scenarios above can be achieved using your existing loudspeaker cable. The optional Quiescent low-noise speaker cable has been designed to be an exact match for the modules and interlinks and, once installed will bring significant benefit to the performance of the overall system.

The installation process is as follows:

1. With the power amplifier off, disconnect your existing speaker cables.
2. Connect up the Peak low-noise speaker cable to the binding posts on your amplifier and speakers (or Peak modules) Be careful not to stress leads or connectors.

3. Ensure that all connections are at the correct polarity and tightly secure.
4. Power up the power amplifier.

You should now be able to listen to your system and hear instant benefits. However, we do find that two weeks burn-in is required before full performance is reached.