



[audio physic]

Owner's Manual AVANTI



AUDIO PHYSIC AVANTI

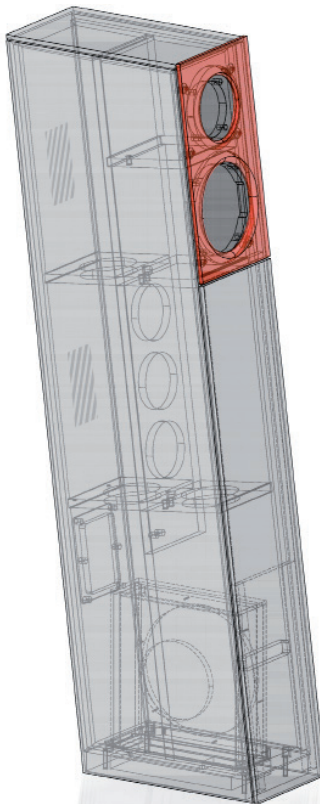
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Included in the Delivery

Your new loudspeakers are delivered in two separate boxes. One box contains one loudspeaker and one front grille, as well as your „Welcome to the Audio Physic Family“ package containing this Owner’s Manual, the Final Inspection Certificate and accessories. In the second box you will find the other loudspeaker and one front grille.

- | | |
|---------|---|
| Box “A” | <ul style="list-style-type: none"> • “Welcome to the AUDIO PHYSIC Family” package and a spirit level to optimise setup • 8x spikes • 8x screw cap • 1x front panel without fabric (mounted) • 1x front panel covered in fabric |
| Box “B” | <ul style="list-style-type: none"> • 1x front panel without fabric (mounted) • 1x front panel covered in fabric |



Insight:

The transparent illustration of the AVANTI demonstrates the elaborate structural configuration of the cabinet with the integrated woofer.

[audio physic]

No loss of fine detail

Welcome

Dear music lover,

We would like to thank you for putting your trust in our products and welcome you to the family of audiophile friends of AUDIO PHYSIC.

You have chosen a top-class product that has been developed in Germany. We would like to congratulate you on this choice and wish you a lot of fun and enjoyment with your product.

In order to earn your trust, we only use the latest technical expertise and top-quality components when manufacturing our loudspeakers and we produce them in accordance with strict quality criteria. These criteria enable us to provide original owners with a 10 year warranty for our loudspeakers (2 years for the subwoofer electronics and 10 years for the drivers), starting on the date of purchase of the product by the original owner, which is far longer than the legally prescribed warranty periods. In order to secure this additional service, please fill out the warranty card enclosed with your loudspeakers and send this and a copy of your proof of purchase to your national AUDIO PHYSIC distributor. He will send you written confirmation of your 10 year warranty shortly after receiving these documents.

Only after several electronic and acoustic test runs, which our quality assurance staff confirm by signing the enclosed certificate, are our loudspeakers allowed to leave the factory in secure packaging. These measures help to ensure that you can enjoy the full experience of the high-quality materials, production and sound of AUDIO PHYSIC loudspeakers in the comfort of your own home.

As a rule, your competent AUDIO PHYSIC dealer will deliver and install your loudspeakers. If you would rather install your product yourself, the following pages provide you with detailed tips and steps to follow in order to safely set up your loudspeakers. **Have fun with your new AVANTI loudspeakers!**



You have our word:

We put our name on every model in order to guarantee the tested quality of our loudspeakers.

General Tips

Depending on the size and weight of your loudspeakers, it is a good idea for two people to unpack them. The ideal way to do so in the case of floor-standing loudspeakers is to stand the boxes upright so that the top of the loudspeaker is resting on the floor (the boxes are marked accordingly) and you can easily attach the spikes. The spikes for both loudspeakers can be found in your "Welcome to the Audio Physic Family" package.

Please follow the instructions in the chapter "Unpacking and Assembly" to ensure the safe and correct installation of your loudspeakers.

The loudspeakers should reach a temperature that is approximately equivalent to room temperature before you connect them to the HiFi system and/or operate them. This instruction predominately refers to the winter months in case the loudspeakers were previously stored in a cold room.

Maintenance

Our loudspeakers are coated in high-quality veneers or high-gloss lacquers. Some parts of the cabinet may have a glass surface depending on the loudspeaker design in question. You should avoid using chemical cleaning agents because these may attack the loudspeaker surfaces and make them go matt. As a rule, a fine, soft and damp cloth is all that you need to clean the surfaces. If a cleaning agent is required, use this to dampen the cloth and do not directly apply it to the surface. It is best if you test the suitability of the cleaning agent on a less visible part of the cabinet. The drivers do not normally need to be cleaned. Dust particles fall off quickly when the loudspeakers are operated. You can, however, use a soft brush to lightly brush over the surfaces of the drivers. When doing so, make sure you do not put any pressure on it. Please never use any cleaning agents on the drivers. Do not expose the loudspeakers to direct sunlight. Anodised surfaces are sensitive to acids and alkalis and to ultraviolet light and may fade.

The midrange and tweeter drivers of the AVANTI loudspeakers use a unique mounting technique. Rather than directly mounting the drivers onto the cabinet of the loudspeaker, the drill holes of the loudspeakers contain special neoprene plugs. These neoprene plugs tighten in the mounting hole when the screws are fitted, creating a permanently elastic connection between the driver and the cabinet that reduces resonance. You do not need to tighten these screws. Re-tightening the screws may damage the plugs and have a negative effect on the sound.

Burning In

The loudspeakers first reach their full sound potential after a specific burn-in period. We burn in the drivers at our factory prior to assembly, meaning that they normally only need a burn-in period of a few hours at a normal room volume and with music that has a range of frequencies that is as wide as possible, for example orchestral pieces. Recordings containing 'white or pink noise' such as those available on many so-called Test CDs are also ideal - however, for safety reasons, these pieces should never be played at high volumes.

Stray Magnetic Fields

The magnetic field created by the individual driver magnets may to some extent have an effect outside of the loudspeaker. This stray magnetic field may interfere with other devices, particularly televisions and monitors with cathode ray tubes (not LCD or plasma televisions), for example by causing changes in colour in the picture. We recommend that you place your loudspeakers approximately half a metre away from such devices (and also from magnet tapes, video cassettes, credit cards with magnetic stripes, etc.).

Transportation

Where possible, please retain the loudspeaker packaging. You can then securely transport your loudspeakers if you move house. If you have AVANTI loudspeakers in our "Glass High Gloss" design, please pack them securely and only transport them in an upright position on a pallet in order to avoid damages.

Unpacking and Assembly

1. Place the boxes on the floor, making sure that the product labels are facing up, and carefully open the packaging on the long side where it has been taped up, preferably using a pocket knife or kitchen knife (similar to illustrations).
2. Remove the "Welcome to the Audio Physic" package and the accessories.



Wrong

If the loudspeaker upper side is on top, it is necessary for you to first turn the loudspeaker around after removing it from the packaging, in order to attach the spikes to the traverses.

Right
The loudspeaker upper side should be on the bottom during unpacking. If you now carefully pull the loudspeaker out of the packaging, you can grip the loudspeaker on its underside with the traverses and can easily attach the spikes.



3. Keep the box on the floor and carefully remove the loudspeaker together with its protective foam pads. It is ideal if two people carry out this step. Make sure that you **do not touch the drivers** when removing and handling the loudspeaker as this may cause irreparable damage to the drivers.
4. Now remove the top foam cover and carefully slide down the protective foil so that you can easily attach the spikes that come with the loudspeaker.
5. Screw the caps with the integrated counter nuts onto the spikes.
6. Now turn over the loudspeakers so that the loudspeakers are in stable contact with the floor. Two people should also carry out this step where possible.
Make sure that you do not hurt yourself on the tips of the spikes.
7. Place the loudspeakers in their intended positions and finely adjust the spikes so that the loudspeakers do not wobble. If you do not place the loudspeakers in a secure and stable position and they therefore wobble, this will have a major effect on the sound. When the boxes are standing level and upright, you have set them up perfectly. The enclosed spirit level will help you to finely adjust the loudspeakers (they are level when the bubble remains in the inner circle). Now use the lock nuts to again tighten the spikes. Roughly hand-tightening the nuts is sufficient.
8. Our AVANTI models are fitted with a solid front panel without fabric when delivered from our factory. If you wish, you can exchange this panel for the panel covered in fabric that is also enclosed with your loudspeaker to suit your tastes. To do so, simply use your fingers to carefully lift off the fitted panel. **Please ensure that you do not touch the drivers when doing so.** Once you have removed the panel, place the fabric-covered panel in its position and softly push it in into place until it is flush with the loudspeaker cabinet. You do not need to worry about any limitations or loss of sound details when using either of the panels.

Connecting the Loudspeakers

Your new loudspeakers are fitted with particularly high-quality connectors from the "nextgen" range made by the specialist manufacturer WBT (see the image on the right). These connectors feature a unique mechanism (**the torque indicator**) that helps you to connect cables with spades as explained under point 2. The connectors of the AVANTI accept both spades and banana plugs. Loose cable strands oxidise easily and are not suitable for a permanently high-quality listening experience.

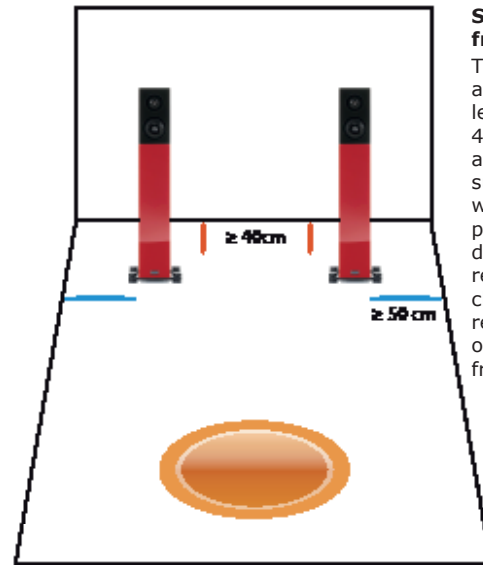
1. Please switch off all equipment in your Hifi system before you begin to connect your loudspeakers.
2. If you are using a loudspeaker cable with spade connectors, turn the screw clamps to the left until you can easily slide the spades into the openings at the side. Push the spades into these openings and **turn the screw clamps to the right until you hear a clicking noise** - this is the torque indicator. Now turn the clamps until they are hand-tight, which will normally be the case after a few more 'clicks'. After this point, you can indeed tighten the clamps even more, but this will not improve the results. In the worst case scenario, further tightening the clamps may lead to damage to the surface structure of the spade connectors.
3. Make sure you have the right polarity. As a rule, loudspeaker cables are accordingly labelled, either by a permanent marking on one of the two conductors of the cable or by plus "+" and minus "-" markings on the cable ends.
4. Now connect the cable to your amplifier and make sure that you have the right polarity here.



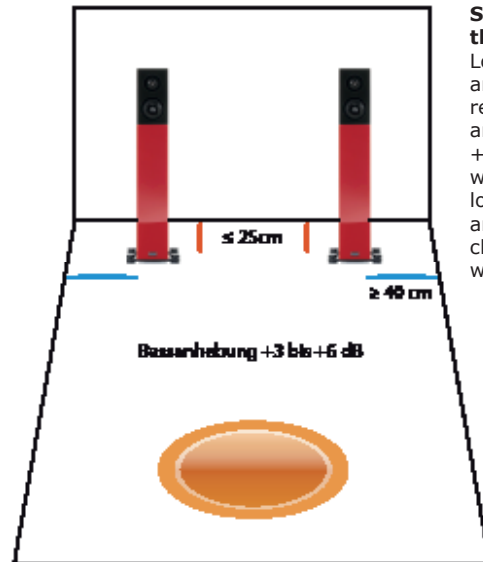
You can now start to optimally align your new AVANTI to the listening position. You can find tips regarding this process in the following chapter on "Setup" and can access particularly detailed information on the AUDIO PHYSIC website.

Setting Up Your AVANTI

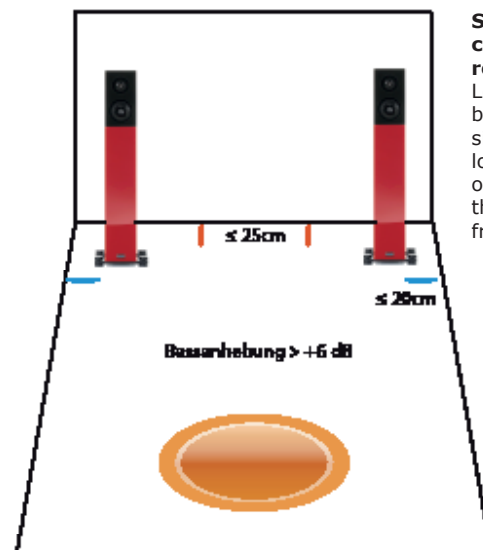
1. The ideal placement of your loudspeakers in your room involves positioning them in an isosceles triangle arrangement including your listening seat, creating equal spacing between each loudspeaker and the listening position.
2. The distance between the loudspeakers should be around 0.8 - 1.2 times as much as the distance between the loudspeakers and the listening position. The closer you sit to the loudspeakers, the more direct and dry your sound experience will be. As you move further away from the loudspeakers, the bass response will normally increase and the spatial imaging will seem more generous.
3. Your loudspeakers should ideally be placed around 40 centimetres or further away from the surrounding walls. The larger the space between the loudspeakers and the back wall, the more precise the sound reproduction, particularly where bass performance is concerned.
4. The closer the loudspeakers come to the back wall (and/or side wall), the more powerful the broadband reproduction of the low frequencies will be – resulting in stronger bass tones and full-bodied voice tones.
5. This effect can be made even more intense when the loudspeakers are placed in a corner. Low tones become around 6 decibels (or more) louder. Use software with which you are familiar to try out different placements and you will soon find the position that best suits your own personal tastes.
6. Alongside the strength of the bass response, the distance from the side walls also particularly affects the localisation of sound events and therefore the precision of the spatial imaging. As the distance from the walls increases, the localisation will become more precise and the sound will be more balanced. When the loudspeakers are extremely close to the side walls, this will result in early reflections, leading to reduced spatial perception and tending towards nervous sound reproduction. Curtains or shelves or similar at the sides reduce this effect.
7. If you want to position your loudspeakers on the left and right-hand sides of a cupboard or a tall sideboard, please ensure that the fronts of the loudspeakers are level with the front of the cupboard or sideboard. If the loudspeakers are positioned further back than the furniture, this will have an effect on the sound, not only in the form of early reflections from the side walls of the cupboard as explained under point 6 but also, in some cases, by disrupting the unobstructed radiation of sound.



Setup away from the wall:
The loudspeakers are positioned at least 40 centimetres away from the surrounding walls. This provides a clearly defined bass response and a clean, crisp reproduction of midrange frequencies.



Setup close to the wall:
Low frequencies are broadly reinforced by around +3 and +6 decibels when the loudspeakers are positioned close to the wall.



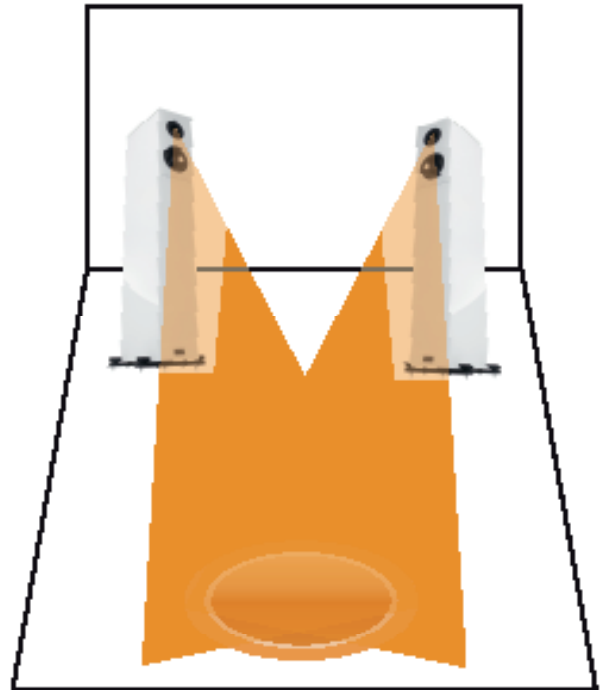
Setup in the corners of the room:
Low tones become significantly louder and overlap into the midrange frequencies.

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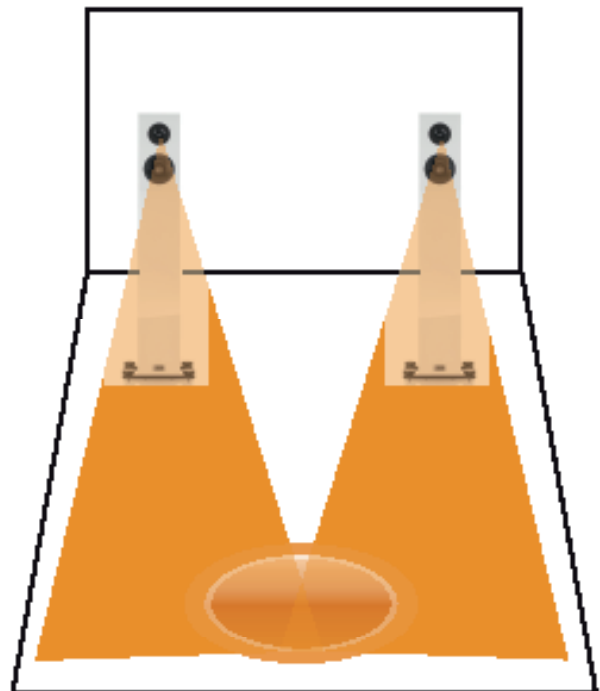
Positioning Your AVANTI Loudspeakers

1. Once the loudspeakers are positioned parallel to the side walls, turn them inwards until an imaginary line is pointing from the tweeter of each loudspeaker towards your preferred listening position. If you prefer to listen to music alone, the two imaginary lines coming from the loudspeakers should 'intersect' at your listening position. This will result in excellent localisation and spatial image. If you would rather listen to music in a group, turn the loudspeakers further inwards so that the imaginary lines cross in front of the listening position.



First step:
Angle the loudspeakers so that an imaginary line is in place between the tweeters and your listening position.

2. If you prefer a wider soundstage and more generous spatial imaging, position the loudspeakers at less of an angle so that the imaginary lines (in blue) cross just behind the listening position. Once a specific angle has been reached, the spatial image in the centre between the loudspeakers will begin to lose structure and precision. You can easily identify the ideal angle by using a mono recording. When the voice of the artist sounds clear again and comes directly from the middle between the loudspeakers, you have found the ideal position.



Second step:
Experiment with the angle. When it comes to positioning your loudspeakers, your listening taste plays an important role. To find the ideal position, mono recordings are extremely useful, particularly those with a singing voice and few instruments.

Technical Specifications

Height	41.5"
Width	6.7"
Depth	9.5"
Required Space: Width x Depth	8.3" x 11.8"
Weight	24 kg
	29 kg (glass design)
Recomm. amplifier power	30 - 180 watts
Impedance	4 Ohm
Frequency range	31 Hz - 40 kHz
Sensitivity	88 dB
Loudspeaker systems	
Woofer	1 x 7"
Midrange	1 x 5.9" HHCM III
Tweeter	1 x 1.75" HHCT III

Some sound advice for even more attention to detail

If you want to boost the sound of the AVANTI even more, you should definitely try our „VCF II M8 Magnetic“ vibration control feet (see right illustration). The vibration control feet dramatically reduce the transfer of vibration between the loudspeaker and the set-up space. When excited by sound energy, floors tend to develop their own vibrations. These micro-vibrations can have a detrimental effect on the acoustic pattern. The VCF II M8 Magnetic feet interrupt this radius of vibration. The result is an audible bonus of fine definition and precision fidelity. Your AUDIO PHYSIC specialised dealer is pleased to advise you, or simply visit our accessories web shop at www.audiophysic.de.



More sound through innovation

The cutting-edge AUDIO PHYSIC VCF II M8 Magnetic feet are highly effective in decoupling the loudspeakers from the floor. The acoustic pattern gains an even higher level of depth, precision and natural quality. What's more, the feet reliably protect sensitive floors from scratches. Thanks to the M8 threads, the VCF II M8 Magnetic can be conveniently attached to the loudspeaker traverses.



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Distributed in North America by:
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