

Owner's Guide

Larsen 4 and Larsen 6



LARSEN
Ortho Acoustic Speakers

Thank you for choosing your new Larsen loudspeakers. We are reassured that your choice will give you hours and hours of authentic musical experience. High Fidelity!

Preferred placement

Flush against the wall

Larsen loudspeakers should, different from most all other speakers, be placed flush against the wall of your listening room. This because the wall in combination with integrated damping panels is an integrated part of the design of the speaker. The design makes the speaker throughout its complete frequency range radiate the sound energy distributed as a half sphere.

Other speakers placed with a distance to the back wall will exhibit what is called a “baffle step” at a certain frequency determined by the width of the speakers baffle. At this “baffle step” the radiation from the loudspeaker changes from half sphere to omnidirectional with the consequence of a 3-6 dB drop in sound pressure level for frequencies below “the step”. This step, however, partially compensated for in the crossover, is nothing that exists in real life acoustics. Here within is one of the secrets to the life like authentic sound of the Larsen speakers.

In an equilateral triangle

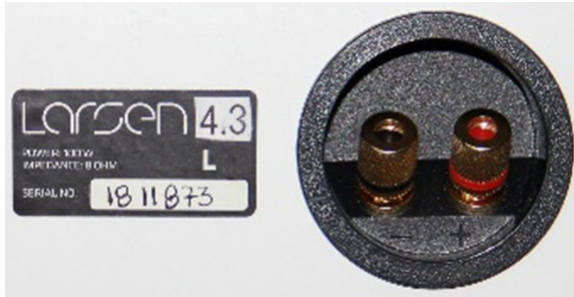
Larsen 4 and Larsen 6 are fairly similar in respect of acoustical design and the recommendations regarding speaker placement is valid for both of them. A fairly symmetrical placement of the speakers in respect to room boundaries is important. This because an unsymmetrical placement with for example one speaker much closer to a side wall could result in corner loading and additional reflections from that wall and this can give an unbalanced sound stage.

A good start is an equilateral triangle with the speakers in two points and the listening spot in the third. The drivers of a Larsen speaker is tilted inwards and upwards to create the wider area of listening possibilities with the correct distributed acoustical energy throughout the frequency range. For this reason the ceiling should be acoustically reflective and not have sound absorbing panels.

The preferred placement of the speakers in a rectangular room is on the longer wall away from the room corners, minimizing side wall reflections. If your room is wide enough (typically minimum 4 meters) an alternative is to place the speakers on the short wall if you can place your listening position close enough and then have the advantage/trade off of having more corner loading and side reflections vs. having your listening position further away from the back wall and the acoustical problems that will arise from that. A desired minimum distance to the side wall is 50 cm.

The speakers are designed handle typically max 100 w undistorted music material. To match your Larsen speakers with amplification, cables etc. for a certain room size we recommend that you take the advice from your local Larsen dealer.

Connecting Larsen 4



For correct phase: + (red) on the speaker to + on the amplifier loudspeaker connection.

Larsen 4 is our entry level model with very good performance. It is tuned to 28 HZ utilizing the gain from the wall placement and with build in absorbers to reduce the first detrimental reflex from the wall behind for a balanced relation between direct and reflected sound.

Connecting Larsen 6



Larsen 6 is a more sophisticated loudspeaker than Larsen 4. Besides better drivers/cross-over, there is a more sophisticated design of the wall absorber, whereas a frame around the absorber “collects” and reflects even more of the soundwaves into the absorber making it virtually larger than its physical dimensions.

If single wire connection is used, connect your speaker cables to the woofer connection and make sure that the strap connections to the tweeter terminals are tightened and have good connection. If bi-wired connection is used with double speaker wires, remove the strap connection between woofer and tweeter.

Loudspeakers are a mechanical system, mechanical devices. Please allow for some initial “burn in time”. Stiffness of driver suspension etc. will settle at its designed performance after some hours of just playing music and your new Larsen speakers will then achieve their optimum performance.

Don't overload your Larsen speakers. Overload can be excessive power from a big amplifier, but it could also be distortion from a too small amplifier. If you have questions regarding this, please consult your dealer.

Drivers damaged by overload are not covered by the warranty.

Larsen's unique design and organic sound

All Larsen Ortho Acoustic speakers are designed to stand flush against the wall, using the wall to create a big 3D-sound stage and as much bass as you need from the floor standing cabinets with small footprints. This placement, combined with the unique positioning and angle of the drivers, flanked by absorption material, virtually eliminates the wall behind the speakers, thus eliminating early sound reflections from interfering with the initial direct sound from the speakers.

With Larsen Ortho Acoustic speakers, you can enjoy the pleasure of listening without refurnish your living room. At the same time you make the best use of the space and best of all: the loudspeakers will occupy a discreet part of your room.

The Larsens offer a unique sound that to my ears is unusually true to actual music, and they are unusual, too, in their ease of effective placement in the room. ... You will have not heard anything else much like the sound—except of course in live music.

*Robert E. Greene /
The Absolute Sound*

Over the last several years, at CES and the old Newport Show, I have been extremely impressed by Larsen speakers I've heard, often listing them among the best sounding rooms in my show reports... I think these are a wonderful speaker and could happily live with them

*Steve Lefkowitz /
Positive Feedback*

You can find more information about Ortho Acoustic speakers on www.larsenhifi.com.

We thank you for your purchase of a Larsen product and your confidence in our strive to put life like music reproduction into the living area of a normal home. We hope this guide has given you all the information you need. Otherwise, consult your dealer or send us a mail on contact@larsenhifi.se.

Larsen HiFi AB was established in 1995 and is specialized in ortho acoustic loud speakers. The company, that is based in Sweden, are distributing its products world wide through a network of distributors and dealers.

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