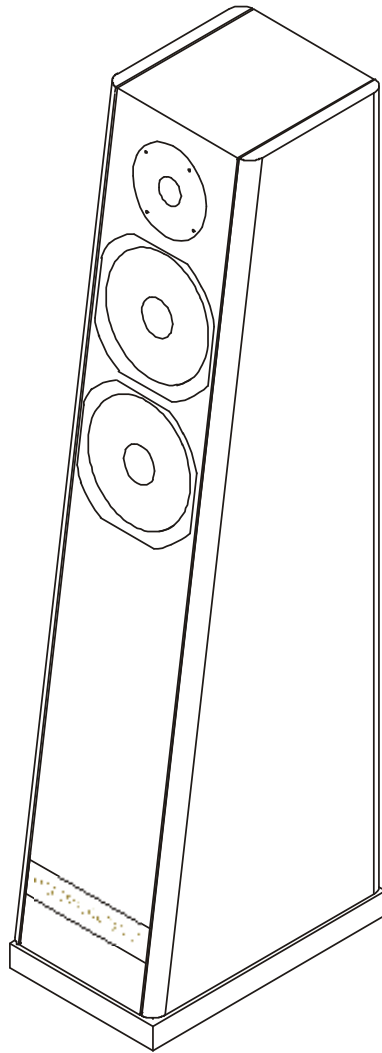




ELECTROCOMPANIET

If music really matters...

Prelude PSF-1



User manual



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1. Unpacking and maintenance

Your speaker should be treated with the same care you would treat a piece of furniture. Use a piece of soft cloth and a small quantity of warm soapy water to clean the loudspeakers. Avoid touching the cone of the bass unit or treble dome since this may leave a finger mark or damage the dome and spoil its performance. After unpacking, we suggest you retain all packing material for future transports.

2. Break-in

As with all high-quality loudspeaker systems, the musical performance of your Electrocompaniet loudspeakers will improve over an initial break-in period.

Please allow your new speakers to play about 50 hours of music at normal listening level before doing any critical listening or playing at loud level.

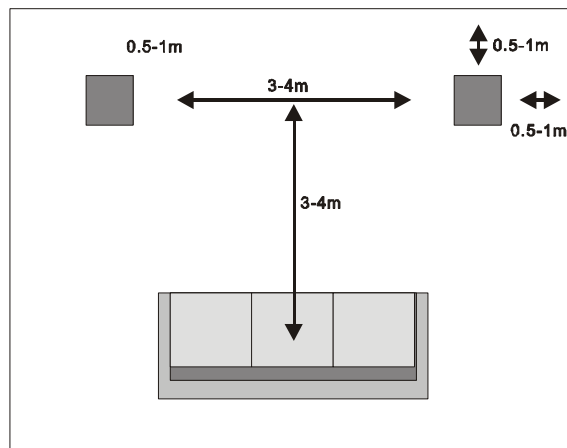
3. Stability

Be aware to try to place the speakers as stable as possible on the floor or shelf with no loose contact.

Some floor standing models are delivered with spikes or feet. This improves the sound at the same time as the sound does not propagate through the floor. This is especially good for you who lives in an apartment and do not want to disturb your neighbours.

4. Room positioning

The performance of a loudspeaker in a room varies with placement. Ideal positioning of the speakers is 3-4 meters apart and preferable at least 0.5-1 meters away from side and rear walls. Avoid distances from walls that correspond to $1/2$, $1/4$, $1/6$ etc. of the room dimensions. Seek instead odd fractions: $1/3$, $1/5$, $1/7$ etc. to minimize effects of room related resonances.



You will perceive the most accurate sound picture if you listen from a position halfway between the loudspeakers, and three to four meters away. Avoid corner placement as it leads to colouration and an over-emphasis of the lower frequencies. Image stability and stereo perception is increased if the two speakers are turned slightly towards the listening position. Try this out and listen for best stereo image and centre focus. Objects in the direct sound path can disturb the coherence of the sound picture. Try out different positions before deciding the final arrangement.



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5. Connections

We recommend the use of heavy gauge loudspeaker cables of high quality. Make sure to turn off all amplifiers before connecting your new speaker to your Hi-Fi system. Connect the cable from the amplifier to the speakers terminal. Use the marking of the cables to ensure that the red or “+” mark of the amplifier to the speakers terminal, also marked with red.

6. Bi-Wiring

If you wish to take advantage of the biwire feature on your speakers do the following. The upper connection is connected to tweeter/midrange and the lower is connected to the woofers. It requires two cables for each speaker to use bi-wire. First of all, make sure to turn off your amplifier. Start with removing the gold-plated connection between the upper and lower connectors of the terminal. Connect one cable from the upper connections on the terminal to the binding post on the amplifier. Bi-wiring can make an audible improvement and better details in the music. Choose a cable with good bass quality as the lower cable and a cable with much detail for the upper cable.

7. Power handling

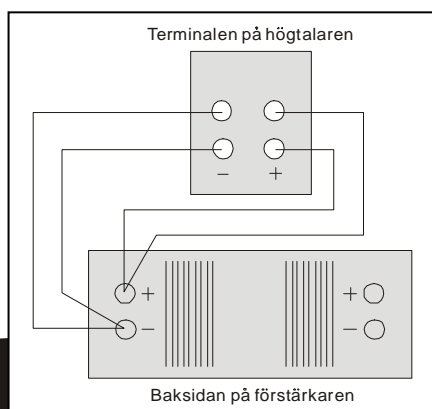
The power rating figure of a loudspeaker is a very imprecise figure. Since the energy in the music signal varies, neither peak nor average value is relevant. A “Max Power” of 200 W says only that the speaker can play 200 W at maximum. It does not mean that you can turn the volume all the way up on a 200 W amplifier and expect clear sound and healthy speakers.

The greatest danger to a loudspeaker is distorted signal. Distortion in the low frequency range produces overtones in the entire spectrum, with an energy that can easily damage the tweeter units. And since a more powerful amplifier can play louder without distortion, we have the paradox that it is greater risk to damage speakers by playing loud with a smaller amplifier.

Warning!

If you hear distortion (bad quality) when you increase the volume this is normally a sign of overloading the amplifier and you should immediately reduce the output level.

Use of loudness, bass or treble boost increases the risk of harmful distortion from the amplifier. We recommend that you use these controls with care. You may also harm your ears if listening to distorted signal at high volume.





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8. Service

Should your Electrocompaniet loudspeaker system require service, or if you have difficulty in achieving the fine performance of which your Electrocompaniet loudspeaker system is capable, consult the Electrocompaniet dealer from whom the system was purchased, Your dealer has the knowledge required to provide expert advice and assistance, in case the Electrocompaniet dealer is unable to assist you, you are welcome to contact us by mail or telephone.

9. Warranty

This Electrocompaniet loudspeaker is warranted to the original purchaser, against factory defect in material or workmanship, for a period of 2 years from the date of original purchase, to the original purchaser and is non-transferable or as national law requires. Electrocompaniet loudspeakers are music listening devices and should be used for listening purpose only. They must not be connected to any other equipment than which they are intended to.

Electrocompaniet cannot be held responsible for damage or injuries caused by improper use, or use in violation with the Recommendations in this leaflet.

10. General technical description.

The Electrocompaniet Prelude PSF-1 loudspeaker is a 2 1/2 ways floor standing bass reflex construction, with double 6,5 inch woofers and 1 inch tweeter. The cabinet is made of MDF with double sandwich side panels and four internal strutting to ensure minimum resonances. Total thickness of side panels is 24 mm. Front and rear panels made of 18 mm MDF.

The woofers have solid magnet structure with a long throw design to ensure well controlled and tight bass reproduction even at relatively high SPL. Speaker cones made of selected coated paper in order to give maximum musicality and a smooth frequency response.

As tweeter we use a 25 mm silk dome with ventilated magnet system and damped rear chamber to ensure minimum compression and good musical properties. All units are custom made for Electrocompaniet in order to meet our high requirements regarding sound quality.

In order to ensure a coherent and wide soundstage from the speaker, the x-over is carefully phase optimised, where the drivers have the same absolute acoustic phase at the x-over frequency between midrange and tweeter without any inverted phase of drive units. The x-over is made of low loss inductors and polycarbonate capacitors.

Technical specification:

Frequency response:	46-20000 Hz +/- 2.5 dB free field condition.
Impedance:	4 ohms
Sensitivity:	89 dB/m at 2.83v
Power handling:	120/200Watt
X.over frequency:	500Hz 6dB and 2300Hz 12dB/18 dB
Bass tuning frequency:	38 Hz

