



## **Amazing Sound and Value**

### Instruction manual for loudspeakers

Dear Music-lover,

These pages shall help you to have pleasure with your SWANS product for a long time.

**PLEASE READ THIS INSTRUCTION MANUAL VERY CAREFUL BEFORE INSTALLATION.**

The design of SWANS products is based on best manufacturing and the use of high quality materials. These loudspeakers contain technically perfected, innovative and on the highest standards founded components.

1. Unpacking of loudspeaker
2. Optimal set-up of loudspeaker
3. Connection of loudspeakers
4. Important details for usage and maintenance

**SWANS Speaker Systems - Amazing Sound and Value**

**1. Unpacking of loudspeaker**

Dependent on the model of the loudspeakers one or more cardboards or wooden boxes will be delivered. All metal braces need to be removed to avoid any scratches when packing or unpacking your loudspeakers.

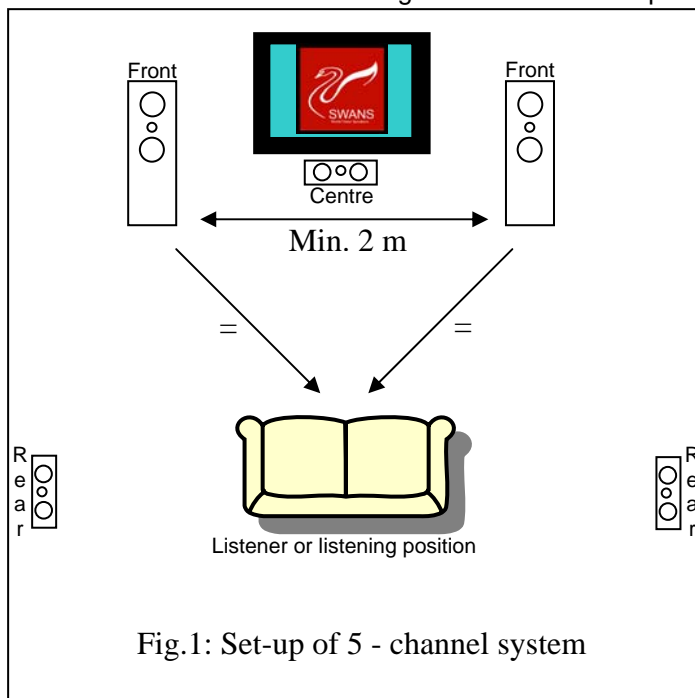
**SPIKES:** The spikes need to be completely turned in the already built in threads, if your chosen model has spikes. Please take care that all four spikes have a good standing and afterwards the counter nuts need to be tightened.

**Covers:** The loudspeakers will be delivered with a dust protection cover and can be pulled out and attached with little force. These covers are designed, that you can use the speakers when they are attached. The best sound performance can be reached, when playing music without it.

**2. Optimal set-up of loudspeakers**

The optimal set-up of the loudspeakers is the crucial factor for having a perfect sound. It is important to take care on the position of the listener and the set-up of the loudspeakers inside the room.

**Position of listeners:** As shown in figure 1 the two front speakers and the position of the listeners should build a triangle. The distance between the Front speaker should be smaller than the distance to the position to your listening position. The distance between the two Front speakers should be optimal more than 2 meter.



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**Room positioning:**

Based on physical reasons the bass frequencies will be stronger, when the distance between the walls and the speakers is smaller. Generally it is strongly recommended to try several positions for finding the best sound acoustic in the room.

For a 5 channel system (Front, Rear and centre speakers) e.g. for home cinema application in combination with a silver screen

for beamer projection or alternatively with a TV-set, the centre speakers should be in a direct line to the listening position. The Rear speakers will be placed or wall-mounted on the left and right site of the listeners. Dipolar speakers should have one axis to the place of listening. If possible, it is recommendable to experiment with different positions as well. Moving the Rear speakers just a few centimetres can already cause amazing sound differences. In multi channel systems a dainty adjustment for the processors can be crucial for the performance of the complete system.

**3. Connection of loudspeakers**

SWANS loudspeakers are created as standard (Fig. 2) or with Bi-wiring terminals (Fig. 3) dependent on the each model.

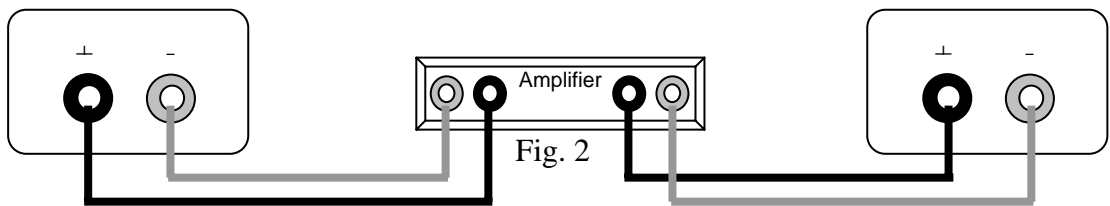
With Bi-wiring terminals is it possible to set-up the speakers in 3 different variations for connection. The differences of the configurations result in 3 kind of sound performances.

**Bi-Wiring: (Option 1)**

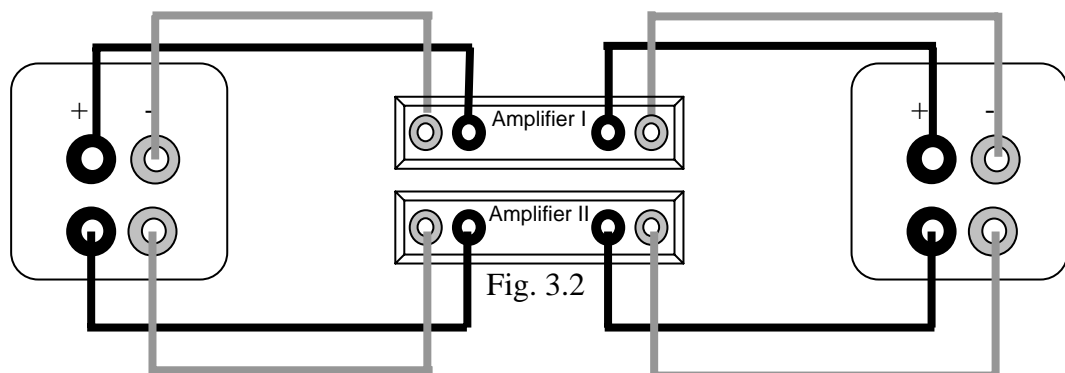
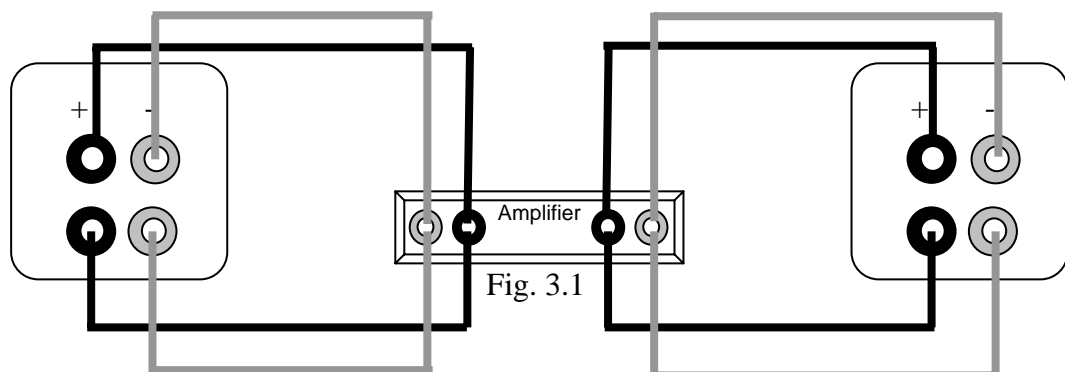
The amplifier is connected with two speaker cables (high and low frequencies are separated) with the loudspeakers. (Fig. 3.1)

**Bi-wiring/Bi-amplified: (Option 2)**

Several amplifiers are connected over separate cables with the loudspeaker chassis. (Fig. 3.2)



**Bi- Wiring:**




#### 4. Important details for usage and maintenance

##### **Levelling of speakers:**

The intrinsic speakers are mechanical devices, which need to play some time to develop the full sound potential. This set-up time can be between 50 and 100 hours, dependent on the music and the volume. Optimal for this specific levelling is to use a special levelling CD

##### **Maintenance:**

Please use exclusively soft and clean microfiber cloth for cleaning which are eventually a bit moistened. Never use cleaning agent like furniture polish or other cleaning substances. The speaker (driver/chassis) should be cleaned very carefully with a very soft brush to take away dust. Avoid touching the sensible parts like the membranes.

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- Attention: Due to safety reasons never open the electrical device.
  - Don't carry out any repairs by yourself! Bring the loudspeakers to the accredited dealer of the SWANS Europe GmbH.
  - Don't put the loudspeakers into direct sunlight
  - Don't erase or change the serial number of the loudspeakers, otherwise your warranty will directly end.