

Gradient

SW-S/D with REVOLUTION ACTIVE

USER GUIDE

GRADIENT SW-S/D

Congratulations for your purchase of the Gradient SW subwoofer system for the Gradient Revolution Active loudspeakers.

This manual covers also the active crossover-amplifier and special features of the loudspeaker system. We recommend you to read this manual entirely to fully utilize the high performance of your speaker system.

POSITIONING

Gradient SW-S/D is equipped with three adjustable feet with nuts. Adjust the three feet in such a way that loudspeaker stands steadily on the floor. Tighten the feet with nuts using a 10mm wrench. If necessary, the adjustable feet can be replaced by M6 spikes.

The subwoofer units should be placed on the inner or outer side of the Gradient Revolution speakers so that the distances from the listener will be within $\pm 0.5\text{m}$ (20") (Figure 1.). However the distance between the Gradient Revolution and the subwoofer unit can be larger.

Because of the dipole (figure of eight) radiation of the subwoofers it is easy to affect on the quality of bass. By rotating the subwoofers you can fine tune the bass. Usually it is recommended to use symmetric positioning (both systems in mirror layout). Note: If the bass response is adjusted by rotating the subwoofer unit, the bass section of the Gradient Revolution has to be rotated too. The woofer sides of the subwoofer unit and the bass section of the Gradient Revolution should be in line.

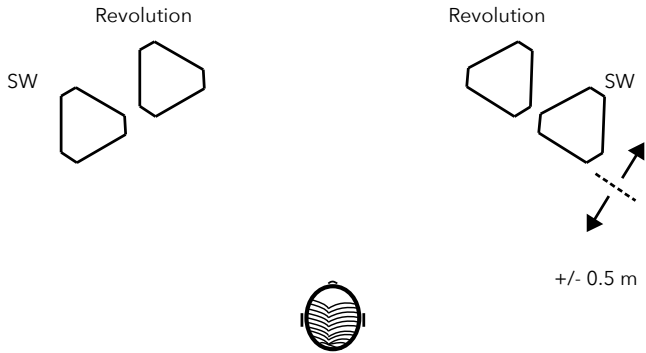


Figure 1. The subwoofer units should be placed on the inner or outer side of the Gradient Revolution speakers so that the distances from the listener will be within $\pm 0.5\text{m}$.

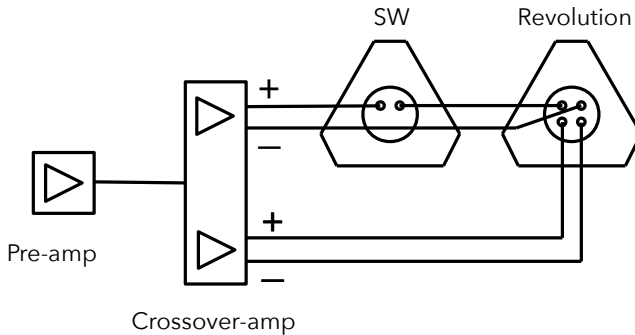


Figure 2. The SW unit is connected in series with the bass section of the Gradient Revolution.

CROSSOVER-AMP

The crossover/amplifier shall be connected like an ordinary power amplifier, after the preamplifier.

The level of the signal feeding the bass amplifier can be adjusted continuously by a trimmer adjustments at the back of the unit. The adjustment range is +/- 10dB for both channels separately. The adjustments have been set to default values at the factory. Once found the correct balance, there is little need for further adjustments.

The SW units are connected in series with the bass section of the Gradient Revolution (Figure 2.). When listening at higher sound pressure levels in large and well damped room extra bass units will give more headroom and reduce the distortion. Doubling the number of woofers will give 6dB more headroom. It is possible to add any number of bass sections to the system.

If one wish to drive the top units of the Gradient Revolution with an external power amplifier, line level output is available for the purpose.

TECHNICAL SPECIFICATIONS

Output power	240 W/Channel
Input impedance	40 kohm
Output impedance	100 ohm
Bass level adjustment	+/- 10 dB
Crossover frequency	200 Hz
Dimensions (WHD)	465 x 60 x 412 mm
Weight	5 kg
AC Mains	110-250VAC, automatic detection

Speaker connectors are four pole Neutrik Speakons.
Pins are connected in the following way:

- Pin 1+ = SW + and Revolution Bass +
- Pin 1- = SW - and Revolution Bass -
- Pin 2+ = Revolution TOP +
- Pin 2- = Revolution TOP -



Made in Finland by Gradient Labs Ltd

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