



HOME CINEMA SERIES

XLNS-12 / XSUB-12  
ACTIVE POWERED  
SUB WOOFER  
INSTALLATION  
GUIDE

Thank you for purchasing a Cadence Cinema Home Series Active Powered Subwoofer.

#### SOME BASIC ACOUSTIC FACTS:

The acoustic characteristics of a sub woofer are such that the bass waves will travel along the floor of your room. You may therefore position the sub woofer in any place as the wave is non directional.

The sub woofer you have purchased is an Active Powered design. Because the sub power amplifier is built-in to the woofer cabinet. Even though sub woofer bass waves are non directional, still for a more massive response, the sub woofer should be placed in close proximity to the main listening area. The sub woofer design incorporates a front firing woofer in a rear ported, computer tuned enclosure. The enclosure features 4 metal spiked footings which should be installed by you to isolate the sub woofers vibration from your house. It is important to keep this open space between the sub woofer enclosure and the floor. Never block this space, the enclosure must sit on all 4 footings.

For optimum bass response in your system, position the sub woofer with the tuned port facing a room corner. By doing so, you are creating a loading effect which enhances the bass response. In certain installations, facing the woofer face to the wall or corner might also enhance the bass response and eliminate some mechanical noises when the woofer is being over driven.

#### ADJUSTING YOUR SUBWOOFER:

The sub woofer features an adjustable Phase Shift Control. This switch acts as a delay for optimal sound balance between the sub woofer and the other component speakers in the system. Experiment with the switch in both positions to determine which sounds better in your home theater system. Typically, if the sub woofer is located near the front your system, near your TV/Monitor, you can leave the switch in the 0 position. If the sub woofer is located at the rear of the listening area, it should be set to the 180 position.

You may adjust the sub woofer crossover frequency from 40Hz to 120Hz. Set your sub woofer level control to the desired volume and then begin to raise the sub woofer crossover frequency towards the 120Hz position, until it begins to blend with the rest of your system. If your system is equipped with larger front stage speakers, you should be able to keep the sub woofer frequency below 80Hz as the front speakers will begin to produce bass at that same level and you will get a nice overlap. When using smaller satellite front stage speakers, you will have to raise the sub woofer crossover frequency to 120Hz so the sub woofer can mesh with their higher bass response.

Your sub woofer also features a "Bass Equalization" control. This control allows you to boost or cut up to 12dB of bass at 50Hz. This allows you to compensate and add bass during weak musical passages, and to also cut out some bass, should you so choose, during very intensive bass passages.

Once again, experiment with various settings until you find the combination perfect for you. The availability of this fine tuning is what separates a cheap basic audio system from a Cadence Cinema Series Home Theater System.

### AUTOTURN ON CIRCUIT:

The sub woofer features an Auto Turn On circuit. You never have to manually reach behind the sub woofer to turn it on or off. The sub woofer automatically turns on and off when it senses musical input. The system will shut down after 5 minutes of no musical input. The On/Off switch will remain lit even when the system is off, but the AMP ON LED will light only when a musical signal is or was present in the past 5 minutes.

### FUSE AND POWER CABLE:

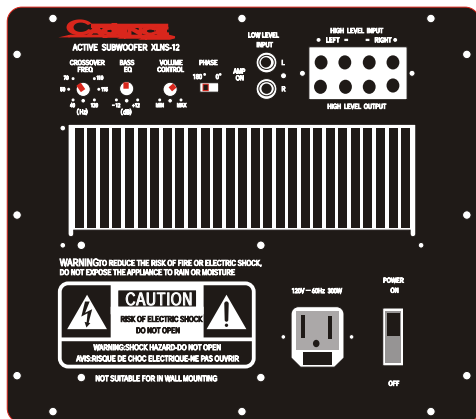
Please be sure that the power cable is plugged in tightly in to the sub woofer. Should the sub woofer stop working, the first step in trouble shooting is to check the fuse. To do this you must first disconnect the power cable from the sub woofer. The fuse holder should now be visible. Carefully remove the fuse, if it is blown it should be replaced with the same value 3 amp fuse. The fuse is there to protect the system for voltage spikes.

### SIGNAL INPUT:

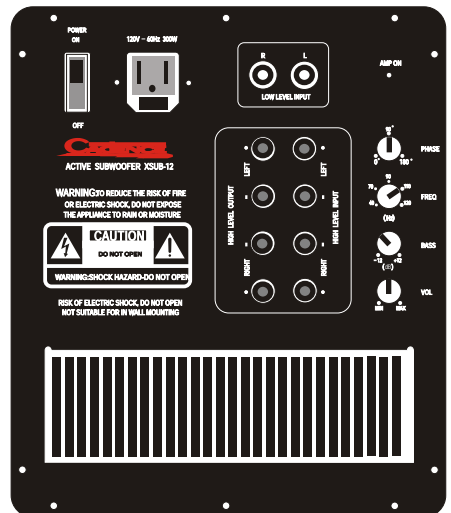
The sub woofer accepts input via low level RCA cables or high level speaker connections. If your receiver has a sub woofer RCA pre-amp output channel(s) then this is the preferred method to input the signal to the sub woofer.

If your receiver does not have RCA pre amp out put channels, you can simply connect your receivers speaker wires to the High Level input and then use the High Level output to power your system speakers.

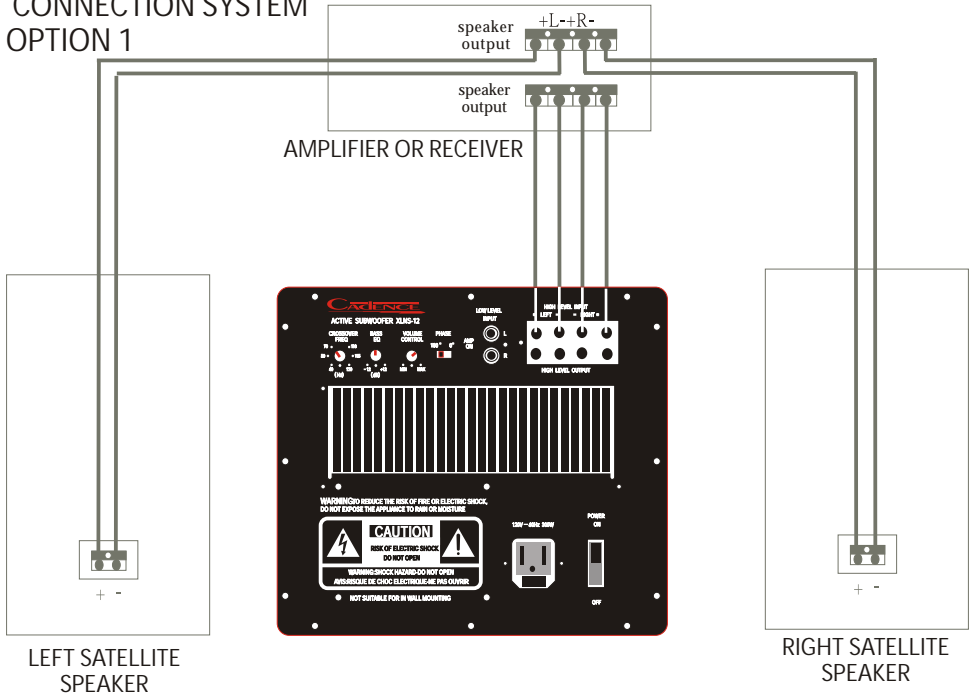
XLNS-12  
REAR PANEL



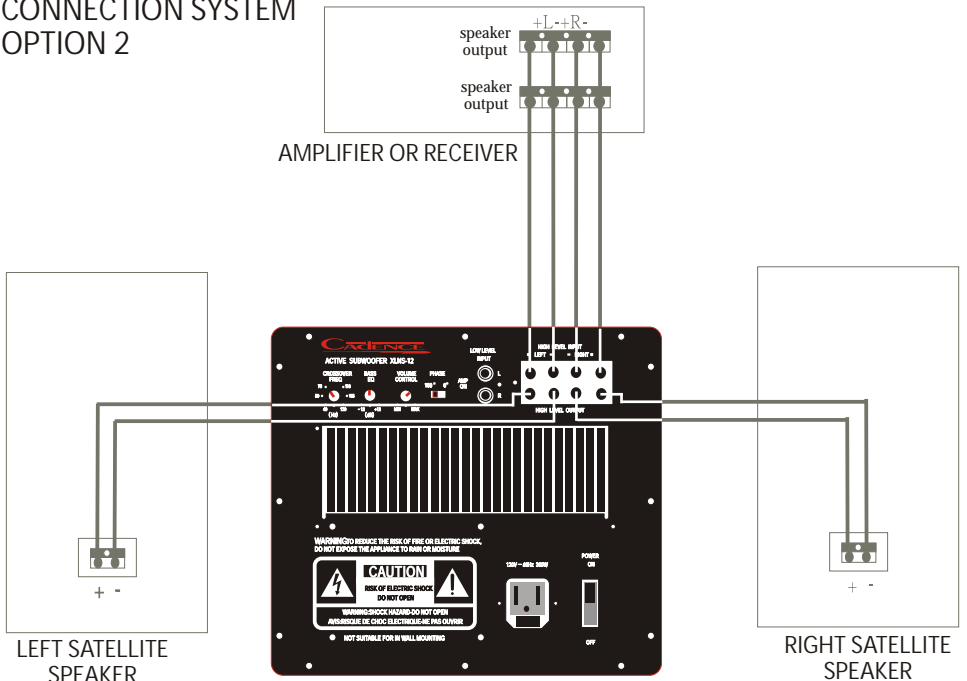
XSUB-12  
REAR PANEL



# XLNS-12 / HIGH LEVEL CONNECTION SYSTEM OPTION 1

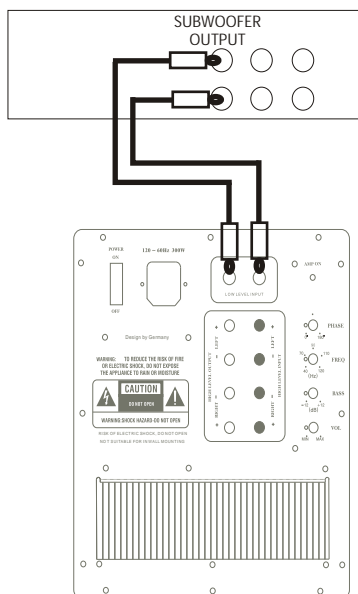


# XLNS-12 HIGH LEVEL CONNECTION SYSTEM OPTION 2

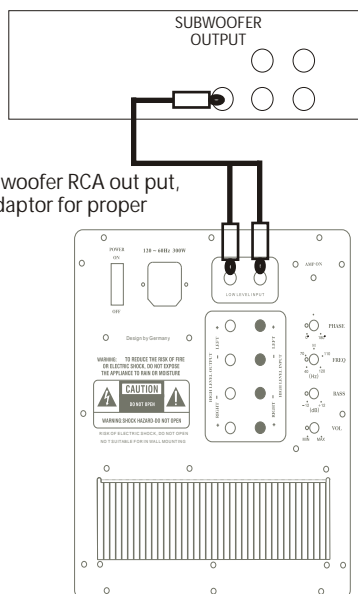




# XLNS-12 / XSUB-12 LOW LEVEL RCA CONNECTION SYSTEM



# XLNS-12 / XSUB-12 LOW LEVEL RCA CONNECTION SYSTEM



If your receiver has only one sub woofer RCA out put,  
you must purchase an RCA "Y" Adaptor for proper  
hook-up to the sub woofer.

## ONE YEAR WARRANTY

### TERMS & CONDITIONS:

Cadence products are covered by warranty from defects in materials and workmanship for a period of one year. The following conditions will apply. All products returned for defects in material or workmanship shall be repaired or replaced with equal units (at our option) at no charge subject to the following provisions.

Inspection of the unit must disclose that all defects are as specified and that defective equipment has not been used improperly and contrary to Cadence instructions, been altered, damaged by in proper line voltages or polarity, defaced or treated in a negligent manner. Units which have been altered or have thermal damage or damaged by use of power higher than RMS ratings or by amplifier clipping, negligent treatment as bent frames, worn or dented dust caps, torn stickers, burned voice coils, torn spiders, torn cones, cones with holes, loose gaskets and torn surrounds which are not deemed to be original factory defects are not covered by warranty. Our liability applies only to any actual factory defective Cadence unit, we will not be held responsible for damages occurring to other units in the system or due to improper installation or use and from electronics or enclosures not properly secured.

All returns must be freight prepaid and accompanied by Twenty Dollars to cover return shipping, handling and insurance charges.

Warranty Returns are to be shipped to:

Cadence Sound Systems  
6519 Highway 9 North  
Howell, NJ 07731

Please call us at (732)370-5400 for a Service Order number before returning any merchandise. This Service Order number must appear on the outside of the shipping carton. We reserve the right to refuse service for items returned without a service order number and return shipping money.

Items must be shipped in proper shipping cartons with only one unit per carton. Items received back which have been damaged in shipping due to improper packing will not be repaired.

Warranty is to the original purchaser only.

If you have any questions regarding the unit, please do not hesitate to call our technical department at 732 370 5400 Monday through Thursday 10:00 AM - 5:00 PM EST.

## FEATURES AND SPECIFICATIONS

### MODEL XSUB-12

Curved Front Cabinet Design.

High Power Active 12" Sub Woofer.

Built-in Class A 350 Watt Power Amplifier.

Front Firing Sub Woofer with "Bass-Reflex, Tuned Port System".

Black, Wood Grain Cabinet with Spiked Footings.

High-Level, Speaker-Line Input / with Paralleled Output.

Low Level RCA Input.

Auto Start Turn-On/Turn-Off with Audio Signal.

Adjustable Phase Control 0-180 Degrees.

Fully Adjustable Low Pass Sub Woofer Crossover Frequency Control.

Fully Adjustable Bass Equalizer.

Independent Sub Bass Volume Control.

Frequency Response: 25Hz-250Hz

LED Power-On Indicator.

Gold Plated Banana Plug Terminals.

Cabinet Size: 16.5"(W) x 15.5"(D) x 17.5"(H)

### MODEL XLNS-12

High Power, Active 12" Sub Woofer.

Built-in, Class A 300 Watt Power Amplifier.

Front Firing Sub Woofer with "Bass-Reflex, Tuned Port System".

Black, Wood Grain Cabinet with Spiked Footings.

High-Level, Speaker-Line Input/with Paralleled Output.

Low Level RCA Input with RCA Bypass Output.

Auto Start, Turn-On/Turn-Off with Audio Signal.

Adjustable Phase Control 0-180 Degrees.

Fully Adjustable Low Pass Sub Woofer Crossover Frequency Control.

Fully Adjustable Bass Equalizer.

Independent Sub Bass Volume Control.

Frequency Response: 25Hz-250Hz

LED Power-On Indicator.

Spring Loaded Terminals.

Cabinet Size: 15.5"(W)x17.75"(D)x13.75"(H)



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