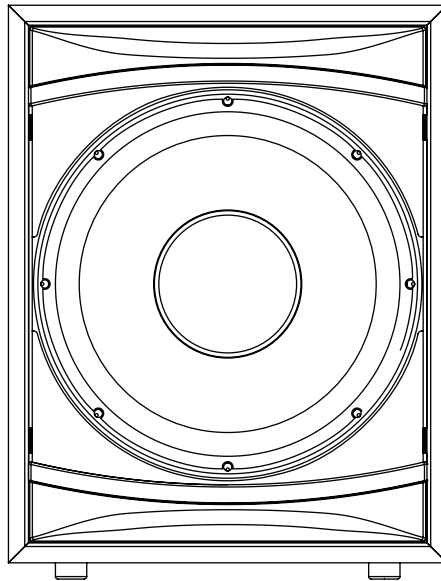
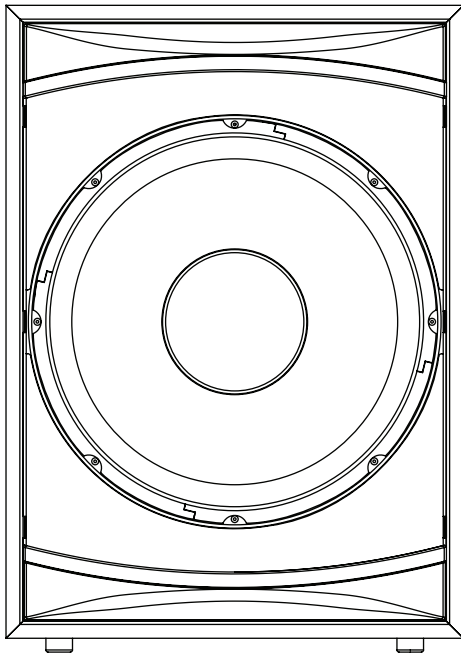




XLS-12S & XLS-15S SUBWOOFERS



CERWIN-VEGA'S LIMITED WARRANTY

WELCOME TO THE FAMILY!

First off, you have great taste in loudspeakers. At Cerwin-Vega!, deep bass and great highs are a way of life. Nice to know there are a few people out there who share our passion for music. You'll be glad to know that this company has been in business since 1953. And we consider you to be the newest member of the family.

We hope your speakers give you years of enjoyment. Of course, in the event of a problem, make sure you familiarize yourself with this warranty. We like to think that while you're sitting in front of your speakers, we're standing behind them. And now a few choice words from our lawyer. (Hey, every family has one).

WHO'S COVERED BY THIS WARRANTY?

Cerwin-Vega's Limited Warranty on residential speakers extends only to the original purchaser as evidenced by the original Bill of Sale and only to the residential speakers purchased from authorized Cerwin-Vega! dealers.

Ten words of advice: *Retain the original bill of sale, in a safe place!*

WHAT'S COVERED BY THIS WARRANTY?

Cerwin-Vega! warrants that all new residential speakers shall be free from defects in material and workmanship, under normal and proper use. Cerwin-Vega! agrees to repair or replace (at our option) all such defective parts at no charge for labor or materials.

WHAT'S NOT COVERED BY THIS WARRANTY?

This Limited Warranty does not apply to defective equipment that: has been altered or repaired by other than factory approved procedures; has been subjected to negligence, misuse or accident; has been damaged by improper line voltage; had its serial number or any part of it altered, defaced, or removed; has been used for other than home entertainment purposes; or has been used in a way that is contrary to Cerwin-Vega's written instructions.

Except as provided by statute, this Limited Warranty does not cover losses, consequential or otherwise, resulting from the improper use of, or inability to operate, any Cerwin-Vega! product.

HOW LONG DOES THE WARRANTY EXTEND?

Cerwin-Vega's Limited Warranty extends for a period of (5) years for all system speaker components, two (2) years for all associated electronics components, including amplifier and controller devices, and one (1) year for speaker stands and wall mount brackets, from the date of purchase as shown on the original Bill of Sale.

The warranty period will be extended if the warranty repairs have not been performed due to delays caused by Cerwin-Vega! or a representative of Cerwin-Vega!, or if the warranty repairs did not remedy the defect and the original purchaser notifies Cerwin-Vega! or the original dealer or an Authorized Cerwin-Vega! Service Center of the failure of the repairs within 30 days after they were completed.

HOW DO YOU GET WARRANTY SERVICE?

In order to obtain warranty service, contact your original dealer or distributor, or an Authorized Cerwin-Vega! Service Center. If, for some reason, you have trouble locating a service representative, contact Cerwin-Vega's Customer Service Department for assistance:

Cerwin-Vega! Customer Service Dept.
772 S. Military Trail
Deerfield Beach, FL 33442

In some cases, the Customer Service Department can solve a service problem without any return of equipment, thereby avoiding transit delays. For more information visit http://www.cerwin-vega.com/service_support.php

WHAT IF THE PRODUCT MUST BE RETURNED?

If the Customer Service Department determines that the equipment must be returned to Cerwin-Vega! for service, a Return Authorization will be issued by mail, and the defective merchandise may be shipped directly to the above address freight prepaid, along with a copy of both the Return Authorization and the original Bill of Sale.

The product will be replaced or repaired (at our option) and returned to the original purchaser. Only the return postage will be paid by Cerwin-Vega! Cerwin-Vega! will not be responsible for damage occurring in shipment from the original purchaser or due to improper packing materials. Remember to pack all equipment carefully and in the original carton if possible. Additional charges may be added if new packing materials are required for return shipment. *Save your original packing materials!*

WHAT ARE OTHER REMEDIES UNDER THE LAW?

The exercise of any of the provisions under the Limited Warranty does not affect the protections or remedies of the original purchaser under other laws. If you have additional questions about service, write or call the Customer Service Department. This Limited Warranty applies to all residential speakers, and supersedes all previous warranty statements. Cerwin-Vega! reserves the right to make changes in product design and specifications at any time.

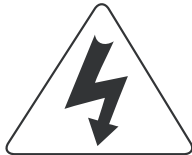
EXCEPT AS PROVIDED HEREIN AND BY APPLICABLE LAW, CERWIN-VEGA! MAKES NO ADDITIONAL REPRESENTATION OR WARRANTY OF ANY NATURE WHATSOEVER, EXPRESSED OR IMPLIED, AS TO THE EQUIPMENT, INCLUDING BUT NOT LIMITED TO, THE MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, DESIGN CONDITION OR WORKMANSHIP OF THE EQUIPMENT, OR THE QUALITY OF THE MATERIAL INCLUDED THEREIN, THIS LIMITED WARRANTY CONSTITUTES THE SOLE AND ENTIRE AGREEMENT BETWEEN CERWIN-VEGA! AND THE ORIGINAL PURCHASER.

IMPORTANT SYMBOLS AND SAFETY INSTRUCTIONS

EXPLANATION OF GRAPHIC SYMBOLS



The exclamation point within an equilateral triangle is intended to alert the users to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



The lightning flash with the arrowhead symbol, within an equilateral triangle, is to alert the user to the presence of insulated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to humans.



CAUTION: TO REDUCE THE RISK OF ELECTRONIC SHOCK - DO NOT REMOVE COVER.

NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.



ATTENTION: POUR EVITER LES RISQUES DE CHOC ELECTRIQUE, NE PAS ENLEVER LE COUVERCLE AUCUN ENTRETIEN DE PIECES INTERIEURES PAR L'USAGER CONFIER L'ENTRETIEN AU PERSONNEL QUALIFIE. AVIS: POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, N'EXPOSEZ PAS CET ARTICLE A LA PLUIE OU A L'HUMIDITE.

IMPORTANT SAFETY INSTRUCTIONS

1. Read and keep these instructions.
2. Heed all warnings and follow instructions
3. Do not use this apparatus near water.
4. Clean only with a dry cloth.
5. Do not block any ventilation openings.
6. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
7. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding-type has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit your outlet, consult a electrician for replacement of the obsolete outlet.
8. Protect the power cord from being pinched, particularly at plugs, convenience receptacles, and the point where they exit.
9. Only use attachments / accessories specified by the manufacturer.
10. Use only with a cart, stand, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart /apparatus combination to avoid injury from tip-over.



11. Unplug this apparatus during lightning storms or when unused for long periods of time.
12. Refer all servicing to qualified service personnel. Servicing is required when a apparatus has been damaged in any way, such as power-cord or plug is damaged, liquid has been spilled, or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
13. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
14. The apparatus shall be connected to a main socket outlet with a protective connection.
 - a) Mains plug is used as the disconnect device. It shall remain readily operable and should not be obstructed during intended use.
 - b) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed near/on the apparatus.

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1. INTRODUCTION

This manual covers operation information for the Cerwin-Vega's XLS-12S & XLS-15S Subwoofers. Illustrations of control locations and hook-up wiring may differ in physical appearance and location than those shown on the actual product you own. However, the operation information is still the same.

2. SUBWOOFER INSTALLATION

2.1 PRIOR TO INSTALLATION

Carefully unpack your subwoofer and save the box and all of the packing material. At some point, you may need to transport, ship, or move your subwoofer. Before continuing with the installation, please make sure the subwoofer is unplugged and the power switch is turned "OFF."

Warning: Severe damage may result from improperly selected voltage. *Refer to qualified service personnel to select voltage.*

2.2 INSTALLATION

Please read the following to determine which installation procedure is best for your audio/video system. For additional hook-up connections, you may want to refer to your A/V receiver, processor, preamplifier, or amplifier's manual.

Note: Read carefully the "Important Symbols and Safety Instructions" page before starting the installation.

2.3 CONTROL DESCRIPTIONS

The following controls are located on the XLS subwoofer's rear panel (Figure 1), page 2.

Attention! The Cerwin-Vega's XLS Subwoofers have LFE, Line Level, and SPEAKER-LEVEL input connections. Please choose one option only for hook-up. Do not hook up more than one option!

1. LFE INPUT: Mono "low frequency effects" connection. Use this input if receiver/preamp/processor has a dedicated LFE or subwoofer OUT. Refer to the owner's manual provided by your receiver/preamp/processor manufacturer. Set receiver's crossover to 150 Hz.

2. LINE LEVEL INPUT: Stereo low-level input to subwoofer. Connect to "LINE-OUT", "MAIN-OUT or PREAMP-OUT," of your receiver/preamp/processor using a dual RCA patchcord (not supplied). Refer to the owner's manual provided by your receiver/preamp/processor manufacturer. Set receiver's crossover to 150 Hz.

3. SPEAKER LEVEL INPUT: Stereo high-level inputs to subwoofer. Use these terminals when line level connections are not available from A/V receiver/preamp/processor. Connect to SPEAKER outputs on receiver using high-quality speaker wire (16-gauge or heavier). Set the front left and right speaker settings to large or full range.

4. SPEAKER LEVEL OUTPUT: Audio loop of stereo high-level (SPEAKER LEVEL) inputs. Use to loop (continue) signal to speaker connections to the left and right main speakers.

5. VOLUME CONTROL: Controls volume level of subwoofer. Use to balance the output of the subwoofer with the main speaker output.

6. CROSSOVER FREQUENCY: The crossover control allows you to adjust the upper limit of the subwoofer's frequency response from 50 to 150 Hz. The subwoofer's response will begin rolling off above the set frequency.

Note: Crossover control does not function when LFE input is used.

2.3 CONTROL DESCRIPTIONS (CONT.)

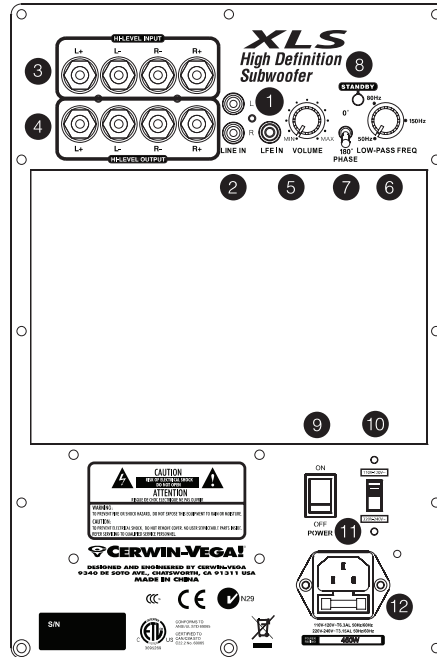


Figure 1

7. PHASE: This switch allows you to compensate for having the subwoofer in a different location than the main speakers. This control allows the signal to be delayed 180 degrees so the output of the subwoofer will blend in with the main speakers. Slide the PHASE switch to “180.” At the listening position, listen to the mid bass output. If it sounds weak, set PHASE back to “0.”

8. POWER LED: Power indicator lamp. Glows green in “ON” mode if audio signal is present. Glows red in both “OFF” mode and “ON” mode if receiving AC power, and if audio signal is not present after approximately 30 minutes.

9. POWER: Two-position power switch. In the “ON” mode, the subwoofer’s amplifier is automatically activated if an audio signal is present and will automatically become inactive when there is no audio signal present after approximately 30 minutes. In the “OFF” mode, power is shut off to the amplifier.

10. VOLTAGE SELECTION: XLS products have 120 V and 240 V capabilities and are shipped with voltage specific fuses: (110 V – 120 V – T6.3AL / 220 V – 240 V – T3.15ALAC).

Warning: Severe damage may result from improperly selected voltage. *Refer to qualified service personnel to select voltage.*

11. POWER CORD RECEPTACLE: Connect the IEC cord to this receptacle (supplied with the subwoofer). If the IEC cord does not fit in your AC outlet, please purchase another AC cord from your audio dealer or electrical supply store.

12. REPLACEABLE FUSE: Protects system from overload. *Refer to qualified service personnel to change the fuse.*

2.4 PLACEMENT

Your XLS Series Powered Subwoofer produces low frequencies which are omnidirectional. As a result, placement requirements for your subwoofer are flexible and subject to your listening room’s acoustic characteristics. To determine the best position for your subwoofer, start by positioning it along the same wall, or plane, as your main speakers. Experiment with various locations until you find the location that sounds best to you.

Note: Typically, your powered subwoofer will sound best when placed between the front main satellites.

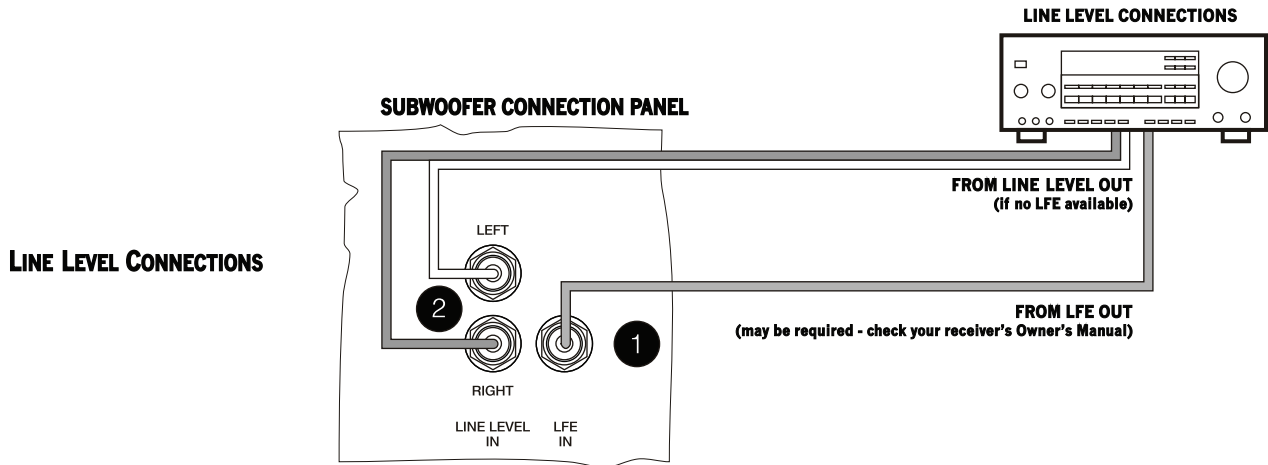
Caution! Do not place heavy objects of any type, such as televisions on top of any Cerwin-Vega! speaker unless otherwise recommended by Cerwin-Vega! XLS Series speakers are for residential applications only.

* Refer to the owner’s manual provided by your main speaker manufacturer to determine your main speaker’s low-end frequency response.

3. CONNECTING YOUR SUBWOOFER

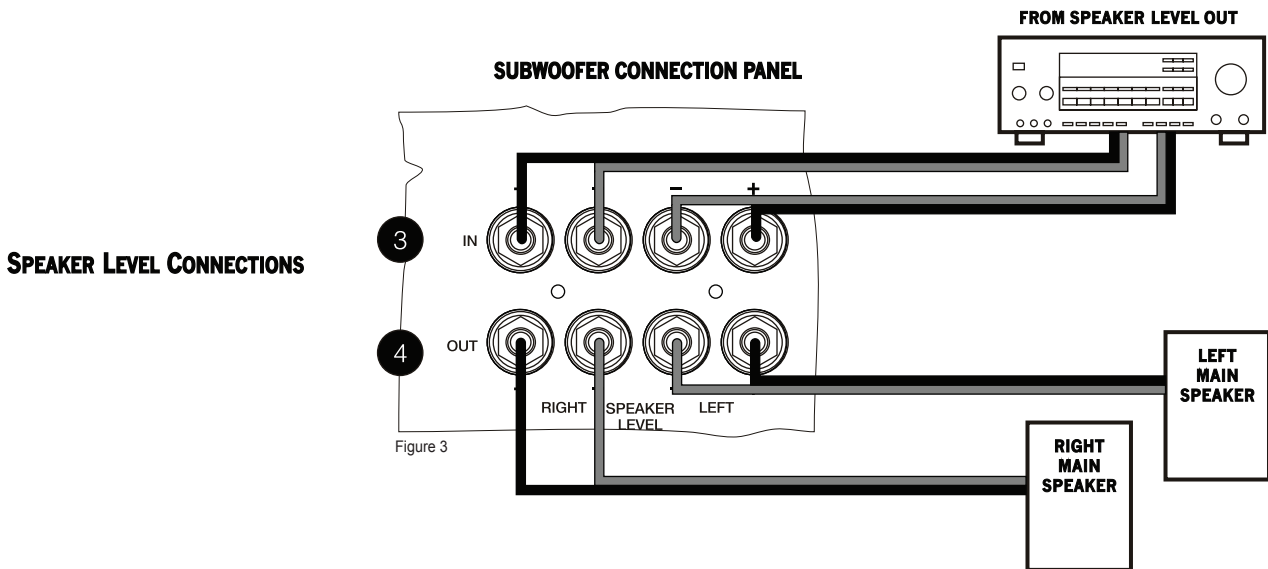
3.1 LINE LEVEL CONNECTIONS

Connect the LFE Output of an A/V receiver to the LFE Input (1) of the XLS subwoofer, or connect the left and right line level outputs of an AV receiver to the left and right Line Level Inputs (2) of the XLS subwoofer. (Figure 2). See your A/V receiver's bass management instructions for proper integration into your system.



3.2 SPEAKER LEVEL CONNECTIONS

Connect the left and right speaker-level outputs of an A/V receiver to the Left and Right Speaker-Level Inputs (3) of the XLS subwoofer. Then connect the Left and Right Speaker Level Outputs (4) of the XLS subwoofer to the left and right speakers on your system. Remember to maintain left to left, right to right, (+) to (+) and (-) to (-) connections. (Figure 3).



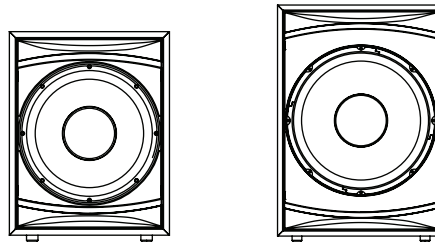
Note: The signal coming from Speaker Level Inputs (3) through the Speaker Level Outputs (4) is high-pass filtered at 100 Hz*. This removes the bass below 100 Hz from your left and right speakers. The subwoofer is used to reproduce the frequencies below 100 Hz*.

*The passive high pass filter used in the speaker level output is dependent on your speaker impedance for the actual crossover frequency. Because of this, we recommend that you start with a crossover frequency (6) setting of 100 Hz, and then adjust Volume (5) and Phase (7). If there is too little midbass, turn the crossover frequency up (6). If there is too much midbass, turn the crossover frequency down (6). Experimentation and listening are the keys to proper subwoofer integration.

4. TROUBLESHOOTING

SYMPTOMS	CAUSES	SOLUTIONS
Bass sounds distorted	Amplifier is at maximum output Receiver tone controls are set too high	Lower volume or receiver level control Set bass flat; use tone controls sparingly
Distortion with volume control near minimum	Defective receiver or preamplifier, or shorted speaker wires	Repair defective receiver, preamplifier or replace speaker wires
Distortion on music peaks or sound effects	Dynamic soundtrack (e.g., explosions)	Turn down volume control to lower overall range
Buzz, hum, or crackle when connecting wires	Connecting wires with power on causes transient signal spikes	Connect wires only when system power is Off
Buzz or hum when system is On	Grounding problem or ground loop	Check receiver or preamplifier manual for help in eliminating a ground loop
No sound after listening at high-levels	Amplifier's thermal protection has been temporarily activated	Lower subwoofer volume and allow amplifier to cool down; sound should resume automatically

5. SPECIFICATIONS



	XLS-12S	XLS-15S
Speaker Type	12" Ported Design Subwoofer	15" Ported Design Subwoofer
Frequency Response	±3 dB 43 Hz to 300 Hz LFE in, 44 Hz to 180 Hz left or right in ±10 dB 38 Hz to 350 Hz LFE in, 39 Hz to 225 Hz left or right in	±3 dB 40 Hz to 300 Hz LFE in, 41 Hz to 190 Hz left or right in ±10 dB 34.5 Hz to 430 Hz LFE in, 35.5 Hz to 225 Hz left or right in
Frequency Range	(-10 dB) 1: 28 Hz – 150 Hz	(-10 dB) 1: 25 Hz – 150 Hz
Amplifier Power	250 W RMS	250 W RMS
Dimensions (HxWxD)	18.2" x 13.8" x 20.5" 460 mm x 350 mm x 520 mm	24.1" x 17" x 22.9" 610 mm x 430 mm x 580 mm
Net Weight	48 lbs / 21.7 kg	68 lbs / 30.8 kg
LF Driver	12" Paper cone foam half roll cast frame woofers	15" Paper cone foam half roll cast frame woofers
Input Connectors	L&R + LFE RCA, and speaker level barrier strips	L&R + LFE RCA, and speaker level barrier strips



772 S. Military Trail • Deerfield Beach, FL 33442
www.cerwin-vega.com