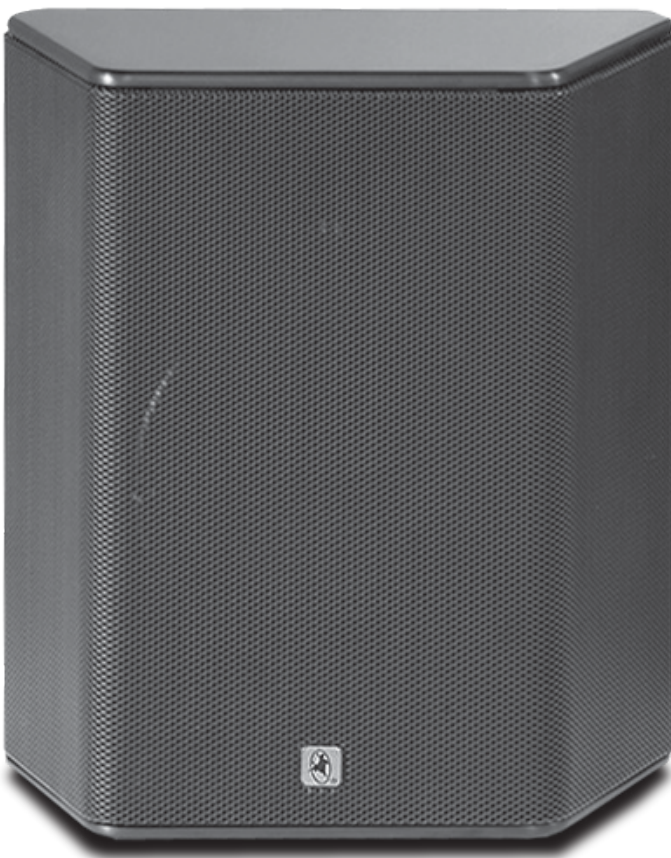




The Outlaw Surround Loudspeakers SL-B(W) Black (and White) Owner's Manual



Congratulations on your purchase of the **Outlaw Audio Surround Loudspeaker (SL)**. You now own a pair of one of the finest surround speakers available. The Outlaw SL provides remarkable surround performance in, and quite frankly beyond, their price range.

The many features of the Outlaw Surround Loudspeakers include:

- A 25mm soft dome tweeter with neodymium motor vented, former, and ferro fluid cooling (used In "Direct Mode")
- Symmetrical, side-mounted 2.5" full-range drivers (used In "Diffuse Mode")
- A long throw 5-1/4" woofer, for deep controlled bass extension
- Furniture grade cabinetry, including hand-painted black or white finish on MDF
- A 2-position Diffuse/Direct switch to select surround mode

We encourage you to carefully follow the setup information provided in the following pages to ensure you get every last note of audiophile performance from your new surround channel speakers.

Unpacking

The carton and packing materials used in shipping your new speakers were specially designed to cushion them from the shocks and vibrations of shipping. We strongly suggest that you save the carton and packing materials to use if you move, or if the speakers ever need to be shipped back to us for any reason.

To minimize the size of the carton in storage, you may wish to flatten it by carefully opening the top and bottom flaps and folding the carton flat. Packing materials that cannot be collapsed should be saved along with the carton in a plastic bag.

Contents

After unpacking your new speakers, please confirm that the following items have been included.

- 1 pair Outlaw SL-B(W) Black (or White) Surround Loudspeakers
- Metal Grills (pre-installed)
- Wall Mount Clips
- Owner's Manual

If any of the above is missing from your shipment, please contact Outlaw Audio immediately at 866-OUTLAWS.

Loudspeaker Controls and Connections

A Wall Mount Clips

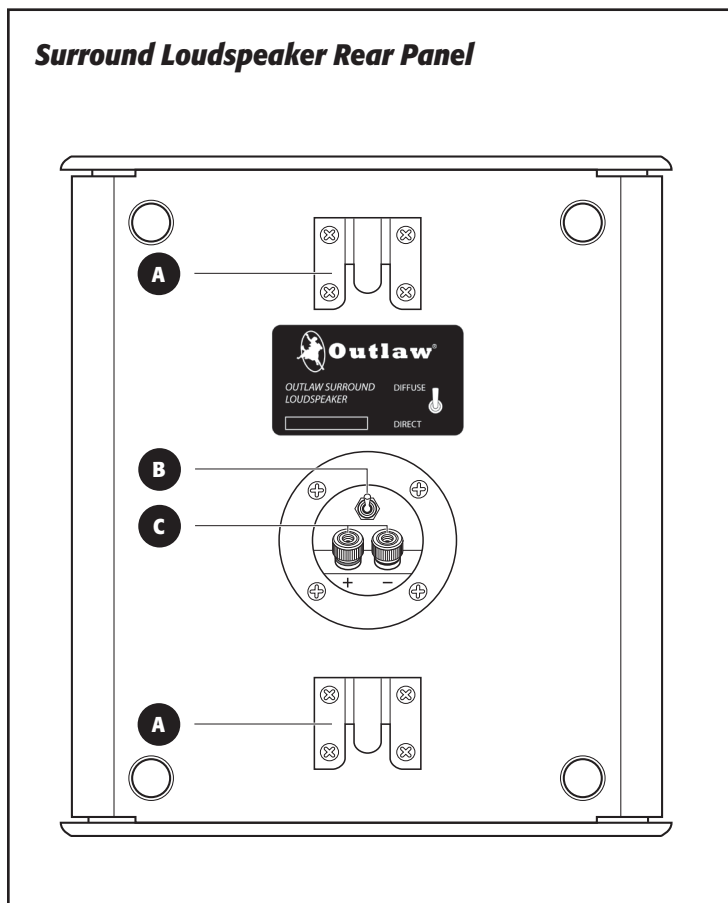
Use these clips to mount your speaker to the wall.

B Surround Mode Switch

This two-position switch allows you to choose between a direct radiating output or a diffuse output.

C Speaker Binding Posts

Use these terminals to connect the speaker to the amplifier.



Setup

Connecting To Your System

To get the maximum performance from your new Outlaw Surround Loudspeaker system it must be connected, positioned properly within the room, and correctly configured to match your listening environment. The following section outlines the proper settings to get the best performance from your Outlaw Audio Surround Loudspeakers.

Preparing the Speaker Wire for Installation

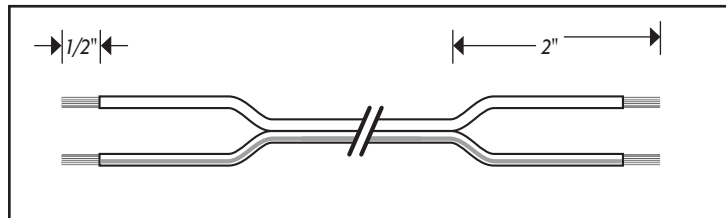
High quality speaker wires are essential for optimal performance. We recommend the use of a heavy gauge (16 or heavier) oxygen-free multi-strand copper wire. For lengths over 25 feet, a heavier gauge of wire should be used. As with other gauge based conductor sizes, the lower the number the heavier the gauge.

When purchasing wire, look for cabling that clearly marks polarity on one conductor. Often speaker wire manufacturers will use a single solid line or their logo on one side for this purpose. This will make connections easier later on. Most installers consider the marked conductor their "positive" lead.

Since your Outlaw Surround Loudspeakers offer true five-way binding posts you can use speaker wires that have terminated ends such as banana plugs, spades, or pins. When using spades, they must be compatible with 5/16-inch posts.

To prepare your non-terminated wire for installation, you will need to perform the following tasks:

1. Split each end of the speaker wire in half leaving approximately two inches of "separate conductors" as shown on the next page.
2. Remove a half-inch of insulation from each conductor, also shown below.
3. Separately twist each stranded wire together ensuring that all four leads are kept apart.



Connecting to your power amplifier

This is the most common way to connect an individual speaker to a power amplifier or receiver. A standard 16 or 14 gauge speaker wire is used to join the amp and speaker together.

CAUTION: To prevent damage to your amplifier or speakers and avoid the risk of electrical shock, always disconnect the power to your receiver or amplifier when making any system connections.

To connect each speaker with a single speaker wire, carefully follow the steps below:

1. Turn off all system components and unplug the receiver or amplifier.
2. Loosen the Outlaw Surround Loudspeaker's binding posts.
3. Insert the appropriate polarity wire through the postholes on the binding post.
4. Carefully tighten the binding post until snug. Over tightening will strip the binding post and prevent a solid connection.
5. Repeat steps 2-4 at the amplifier binding post with the opposite end of the speaker wire.

NOTE: Remember that polarity must be maintained between speaker and amplifier, ie. positive terminal (red post) on speaker to positive terminal on power amplifier.

CAUTION: Check terminal posts on both connections (speaker and amplifier) to ensure that loose copper strands have not been allowed to "short" the binding post pairs. Any loose strands that touch both the positive and negative terminal posts must be removed before powering up the amplifier. Failure to do so may result in damage to the amplifier or speaker.

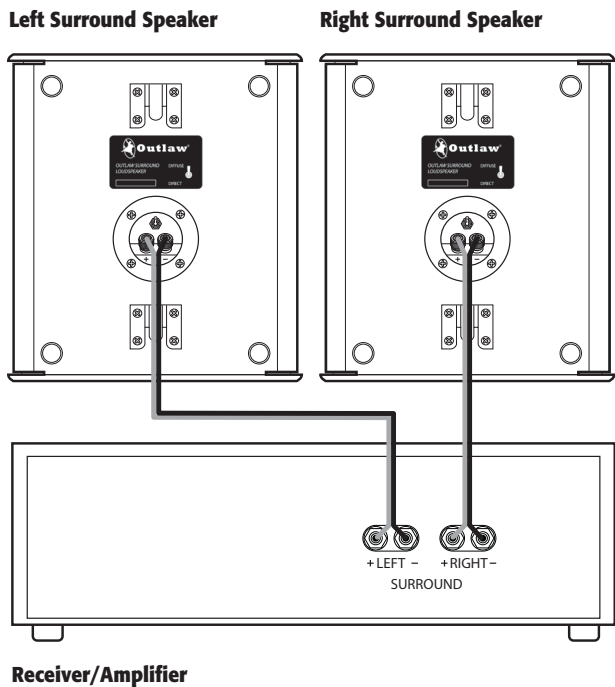
Notes on Speaker Placement

The following suggestions should be adhered to as closely as possible. While each listening room imparts its own sonic compromises, these guidelines will help you achieve the greatest performance from your Outlaw Surround Loudspeaker system.

Surround Speaker Placement

- For optimal performance, surround channel speakers should be mounted at least five feet from the floor and no closer than one foot from the ceiling.
- Higher mounting locations will increase sound diffusion while lower mounting positions will increase sound localization.
- Proximity to walls and corners will increase low frequency output. When placed too close this additional low frequency output may sound unnatural or bloated. Whenever possible, place your speakers no closer than 12-Inches to the nearest wall.

Surround Loudspeaker Wiring Diagram



Setting the Outlaw Surround Loudspeaker's Diffuse/Direct Control

Diffuse/Direct Control

This switch allows you to tailor the behavior of your Outlaw Surround Loudspeakers for optimal performance under most listening room conditions. Using the following guidelines, adjust your speakers according to your individual environment or the desired dispersion pattern. Keep in mind that this setting can and should vary by speaker pair (Surround L/R vs. Surround Back L/R) when necessary.

Surround Sound Considerations

A great speaker has many characteristics. Most importantly, it should have a linear response, with a large soundstage and precision imaging while at the same time be capable of reproducing considerable dynamics without sounding strained. If these design goals are accomplished, the speaker will be at home both in music only and full in-home theater systems.

With the above in mind, we offer the following advice when integrating your Surround Loudspeakers in a 5.1, 6.1 or 7.1 surround sound system.

- When a sound effect pans from one speaker to the next, you'll want your speakers' timbre to match as closely as possible. This will ensure that whatever instrument or sound effect you are hearing sounds the same, regardless of which speaker in your system it is emanating from. Therefore, we recommend pairing the Outlaw Surround Loudspeaker with either the Outlaw Bookshelf Loudspeaker or our LCR Loudspeaker.
- When using the Outlaw Surround Loudspeakers in the "direct" surround mode, they should generally be placed just behind the listening position. While timbre remains very important, these speakers should be placed approximately 1-2 feet above the listener's ears to create a more diffused sound field.
- When using the Outlaw Surround Loudspeakers in the "diffuse" surround mode, they should be placed to the left and right of the listening position. While timbre remains very important, these speakers should be placed approximately 1-2 feet above the listener's ears to create a more diffused sound field.

- Surround back channels, more commonly used in DD-EX™ and DTS-ES™ soundtracks should be placed at the same height as the surround channels. If you are using a pair of speakers in the surround back position, they should each be placed approximately 30 degrees off of the center axis. You will typically use the Outlaw Surround Loudspeaker in the "direct" position when used as surround back speakers.
- Today's blockbuster movie soundtracks take advantage of a dedicated subwoofer channel called the LFE (Low Frequency Effects). For this reason, we advocate the use of a powered subwoofer like our LFM or ECS series subs. Placement of the subwoofer will depend on room acoustics, so you'll want to consult with your subwoofer manufacturer for tips on getting the most from your sub. The Outlaw LFM and ECS series subwoofer manuals, which are available as a free download at www.outlawaudio.com, all share an excellent primer on subwoofer placement. We invite you to use that information to maximize your system's performance.

Caring for your Speakers

Exceptional efforts were taken during the design and manufacture of the Outlaw Surround Loudspeakers so that they could provide you with a lifetime's worth of music and movie surround reproduction. Proper care along the way will ensure that they always look as great as they sound.

We recommend using a lint-free cloth to clean your speaker's cabinets. If necessary you may moisten that cloth with plain water. Special care should be taken to avoid getting water on the dome tweeter or woofer. Do not use any other solvents or chemicals as damage may occur.

Troubleshooting Guide

PROBLEM: No output from the speakers

- Check to ensure that your amplifier is powered on.
- Check to make sure your source (CD, DVD etc.) is actively outputting a signal.
- Check to ensure speaker wires are properly connected.

PROBLEM: Amplifier shuts down at power up or during high volume playback

- Check for a shorted speaker wire connection. This is observed as speaker wire that touches both the positive and negative (red and black) binding posts at the same time. This can occur at the amplifier or the speaker's binding posts.
- Check to make sure your speaker wires are connected properly.

PROBLEM: Woofer or tweeter sounds "distorted"

- Check bass and treble controls and return them to flat.
- Reduce volume of playback as amplifier may be "clipping"

Specifications

SENSITIVITY	88dB
RATED AMPLIFIER POWER	50-200watts
IMPEDANCE	6 Ohms
FREQUENCY	Direct Mode 80Hz-20kHz ±3dB Diffuse Mode 80Hz-15kHz ±3dB
DRIVERS	Tweeter (Direct Mode) 1" Soft Dome Full-Ranges (Diffuse Mode) 2.5" Cone Woofer 5-1/4" Long throw (5mm travel)
DIMENSIONS (HxDxW)	11.75" x 10.4" x 5.625"
WEIGHT	12.1 lbs

The Outlaw Audio 30-Day Satisfaction Guarantee

This product is guaranteed to satisfy all your needs for a high performance bookshelf speaker system. If for any reason, you are not completely satisfied with it, please contact us at 866-OUTLAWA (688-5292) within 30 days of receipt of the unit and you will receive a return authorization.

Please save all of your packing material in that the speakers can get damaged in shipping without proper protection. We recommend that you keep the packing (even after 30 days) so that if you ever move, the speakers will be adequately protected.

If you decide to return the speakers, your only cost will be the original shipping charge. When your loudspeakers arrive, we will inspect them to insure that they were shipped back to us in original condition. Upon satisfactory inspection, we will issue a full credit for your original purchase price.

For Future Reference

Record your Surround Loudspeaker serial number and date of purchase here. It is found on the back panel.

Model Number _____

Serial Number _____

Date of Purchase _____



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Specifications are those in effect at the time of printing. Outlaw Audio reserves the right to change specifications or designs at any time without notice or liability to modify or upgrade units previously sold.

Outlaw Audio Limited Warranty

This warranty protects the owner of the Outlaw Surround Loudspeakers (the PRODUCT) for five (5) years from the date of purchase.

This warranty covers all defects in material and workmanship with the following specific exceptions. These are:

- Damage caused by improper installation or adjustment
- Damage caused by accident, unreasonable use or neglect
- Damage from failure to follow instructions contained in this Owner's Manual
- Damage from the performance of repairs by someone not authorized by Outlaw Audio
- Any unit on which the serial number has been defaced, modified, or removed
- Damage occurring during shipment
- Units which have been altered or modified in design, appearance or construction

This warranty covers only the actual defects within the PRODUCT itself. IT DOES NOT cover costs of installation in (or removal from) a fixed installation, or normal set-up, claims based on any misrepresentation by the seller, or performance variations resulting from installation related circumstances such as signal quality, AC power or incompatibilities with speakers and/or other system components.

During the warranty period, Outlaw Audio will, at its option, either repair the defect, or replace the defective product, or the defective parts, or components thereof at no charge to the owner for parts and labor covered by this warranty. If necessary repairs are not covered by this warranty, or if a unit is examined which is not in need of repair, you will be charged for the repairs and/or the examination. If non-warranted repairs are needed, we will notify you of the estimated cost and ask for your authorization to perform said repairs.

You must pay shipping charges incurred in getting your Product to the factory. We will pay the return shipping charges if the repairs are covered by the warranty. Please save the original shipping cartons as the unit MUST be returned in the original carton and packing. (Replacement cartons are available at a modest charge.)

If your product needs service, please call Outlaw Audio Inc. at 866-OUTLAWA (688-5292).

You will need to present the original bill of sale to establish the date of purchase. In the event that the proof of purchase cannot be established with the original receipt, the warranty period shall be determined by the earliest date of manufacture shown on the unit, provided that the serial number label has not been altered in any manner, or by our records relating to that serial number.

In the event that you wish to return your Outlaw speakers back to us, for any reason, please call to arrange for a Return Authorization Number. This will insure that your problem is discussed with a service technician who will determine if there is a quick solution to your problem.

Outlaw Audio shall not be liable for, in any way responsible for, any incidental or consequential damages of any kind. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion of incidental or consequential damages, therefore, the limitations and exclusions stated herein may not apply to you. This warranty gives you specific legal rights; and you may also have other rights which vary from state to state.

THERE ARE NO WARRANTIES GIVEN BY OUTLAW AUDIO WHICH EXTEND BEYOND THE DESCRIPTION GIVEN HEREIN. ANY IMPLIED WARRANTIES OF FITNESS FOR PURPOSE SOLD, MERCHANTABILITY, DESCRIPTION, QUALITY OR ANY OTHER MATTERS ARE LIMITED TO THE TERMS OF THE EXPRESSED LIMITED WARRANTY STATED HEREIN.

Products are sold on the basis of specifications applicable at the time of sales. Outlaw Audio shall have no obligation to modify products once they have been sold.

This warranty is applicable only in the United States.

For applicability in other countries, please call Outlaw Audio.