

# powerbass<sup>®</sup>

X T R E M E



**XL-42SS**  
**XL-52SS**  
**XL-62SS**  
**XL-692SS**  
**XL-82SS**

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## POWERSPORTS SPEAKERS

# Application Guide

*Please read through this manual to familiarize yourself with your new speakers. Should your PowerBass Xtreme marine speaker ever require service, you will need to have the original dated receipt.*



## Thank you and Congratulations

Congratulations on your decision to purchase PowerBass Xtreme™ speakers. You now own a speaker of uncompromising design and engineering philosophy from a factory that truly believes in the relentless pursuit of perfection. Incorporating the highest quality materials and state-of-the-art machinery, these speakers display the ultimate balance between high fidelity, extreme performance and long-lasting reliability.



At PowerBass USA, Inc. we are confident you will have many years of outstanding enjoyment from this great speaker investment. For maximum performance, we recommend that you have your new speakers installed by an Authorized PowerBass Xtreme Dealer. Doing so will also automatically extend your warranty to the full THREE Year Period.

To learn more about PowerBass Xtreme, please visit us on the World Wide Web at  
**[www.POWERBASSUSA.com](http://www.POWERBASSUSA.com)**

### △ Caution △

Continuous exposure to sound pressure levels in excess of 100 dB or more can cause permanent hearing loss. PowerBass Xtreme Speakers are capable of producing sound pressure levels well over 160 dB. Please observe all local sound ordinances while listening to your PowerBass Xtreme system. PowerBass USA, Inc. accepts no liability for hearing loss, bodily injury, or property damage due to the result of use or misuse of this product.

## **XL POWERSPORTS SPEAKERS FEATURES**

**Sealed Cone Design:** A unique interior trampoline gasket seals the pole piece to protect the voice coil from water and moisture. The interior surround and outer surround are constructed of synthetic rubber for long life and UV resistance. This in conjunction with the Polypropylene cone material offers increased performance even in exposed mounting locations.

**25mm Mylar Dome Tweeter (20mm for XL-42SS):** Large 1-inch Mylar tweeter with diffuser to disperse highs evenly and ensure loud clean sound.

**Weather Resistant Treatment:** To better withstand the elements our XL Powersport speaker uses a tough powder coated paint process on the speaker basket and grills. This hard finish is heat cured and forms a “skin” over the metal to protect it from rust and corrosion.

**Black and White Aluminum Mesh Grills:** Aluminum mesh grills powder coated in Black and White offer you a choice of colors suitable for marine or off-road use and are impervious to rust.

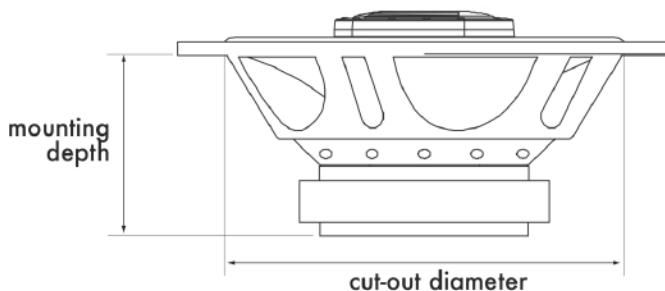
**Gold Plated Connections:** The connection terminals on the speaker frame have been gold plated for protection against corrosion. The speaker wire provided is also terminated with gold plated connectors for improved connectivity. Clear insulated sleeves have been added to provide further protection against the elements.

**Additional Features:** Moisture sealed basket ring gaskets for a snug water tight fit, marine grade stainless steel hardware and pre-terminated speaker wires add further value to your investment.

## SPECIFICATIONS FOR POWERBASS XTREME POWERSPORT SPEAKER

(Due to Constant Improvements, Specifications and Parameters are subject to change without notice.)

Model	Size	Nominal Impedance	Frequency Response	Sensitivity 1W/1M	Power RMS/ Peak
XL-42SS	4"	3-ohm	100Hz-20kHz	87dB	40W/80W
XL-52SS	5.25"	3-ohm	70Hz-20kHz	87dB	50W/100W
XL-62SS	6.5"	3-ohm	65Hz-20kHz	88dB	60W/120W
XL-692SS	6x9"	3-ohm	45Hz-20kHz	89dB	80W/160W
XL-82SS	8"	3-ohm	40Hz-20kHz	90dB	125W/250W



	XL-42SS	XL-52SS	XL-62SS	XL-692SS	XL-82SS
<b>Speaker Dimensions</b>	4"	5.25"	6.5"	6x9"	8"
	<b>in (mm)</b>	<b>in (mm)</b>	<b>in (mm)</b>	<b>in (mm)</b>	<b>in (mm)</b>
Bottom-mounting depth	2 (50)	2.06 (52)	2.33 (58)	3.3 (85)	3.5 (89)
Cut-out diameter	4 (102)	4.5 (114)	5.6 (144)	6 x 8.7 (152 x 222)	7.4 (180)

# INSTALLATION EXPERIENCE

Installation of off road and marine audio speakers can require extensive experience with a variety of mechanical and electrical procedures. Although this application guide explains how to install PowerBass Xtreme speakers in a general sense, it may not show the exact installation method for your particular situation. If you feel unsure about personally installing the speaker system, don't attempt the installation yourself. Ask your Authorized PowerBass audio or marine dealer about professional installation options.

## GENERAL INSTALLATION TIPS

Your PowerBass XL speakers were specially designed for providing high-fidelity sound out in the harsh environment. Despite their rugged construction, it is possible to damage your speaker if they are improperly used. Overdriving the system causing the sound to distort will cause permanent damage to the speaker. Playing loud music in an outdoor environment can permanently damage your hearing, as well as limit your ability to hear other traffic.

1. Be sure to carefully read and understand the instructions before attempting to install this product.
2. Turn off the audio system. For safety, disconnect the negative lead from the battery prior to beginning installation.
3. For easier installation, we recommend that if additional wiring is required, you run all wires prior to mounting your speaker in place.
4. The outdoor environment can quickly accelerate corrosion so always use the highest quality connectors for a reliable installation and minimal signal or power loss.
5. Always use caution before you drill or cut! Be careful not to puncture gas tanks, fuel lines, hydraulic lines or electrical wiring when working on any vessel or vehicle.
6. Never run speaker wires underneath the vehicle or exposed on a boat deck, keeping the wiring behind cover provides the best protection from environmental elements.
7. Avoid running any speaker wire or signal cables near the vehicle's electrical system to prevent noise from "bleeding" into the audio system.
8. Correct speaker polarity must be observed. Speakers wired out of phase will have little bass output. Follow the wiring directions carefully observing the color coded speaker wire.
9. Leave a little slack in the speaker wire for easier installation, this will prevent pulling or stretching the wire and possibly causing a connection to come loose.
10. Always protect your speakers during installation; it is a good idea to keep the speakers in their original package until they are ready to be mounted.

## PREPARING FOR INSTALLATION

**NOTE: The tools listed below may be required for proper installation**

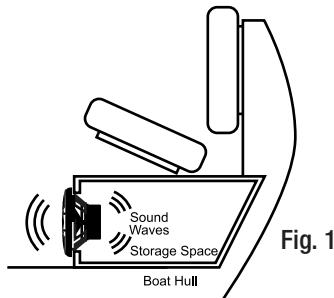
- An electric drill with drill bits
- Phillips-head and standard screwdrivers
- Wire strippers
- Crimping tool and needle-nose pliers
- Silicone sealant or closed cell weather-stripping
- Metal file (half round)
- Dust mask (when cutting into fiberglass)
- Hole saw or jig saw
- Punch or countersink tool
- Eye protection

**NOTE: The stainless steel hardware supplied with your PowerBass Xtreme speakers has been chosen to resist rust and corrosion. If the particular hardware supplied will not work for your installation purposes, please be sure to use only appropriate marine grade (stainless steel) mounting hardware.**

## INSTALLATION APPLICATION

Your PowerBass XL Powersport speakers are specifically designed for boating, side-by-side and UTV/ sport applications. Although the speakers do not require a sealed enclosure, air space behind the speaker from 0.2 – 0.5 cu feet (6 – 15 liters) is recommended for best sound reproduction. To prevent the sound coming off the front of the speaker from radiating back to sound from the rear of the speaker it is recommended to use a factory location or find a spot with a semi-isolated rear chamber (see Fig 1).

**CAUTION: These speakers are designed to be water and spray resistant, they are not designed to be submerged or withstand high pressure water spray. Care must be exercised when washing your boat or off road vehicle to avoid damaging your speakers.**



## SPEAKER LOCATION

The sound produced by your PowerBass XL coaxial speakers is directional. Find the best location for stereophonic sound. Adding more PowerBass Xtreme speakers to the system will not only help to balance the sound, but it will increase the power handling of the system enabling it to play louder.

After determining the best mounting locations, carefully check the areas where the mounting hardware will be placed (see Fig 2). The installation surface must be level and the installation must be “watertight.” No moisture or dampness should be allowed to get behind the speaker. Use caution to make sure there are no objects behind the installation surface that may become damaged during drilling.

**WARNING: These speakers must be installed at least 3 feet (1-meter) away from any electromagnetic nautical equipment (i.e., compass, sonar, etc).**

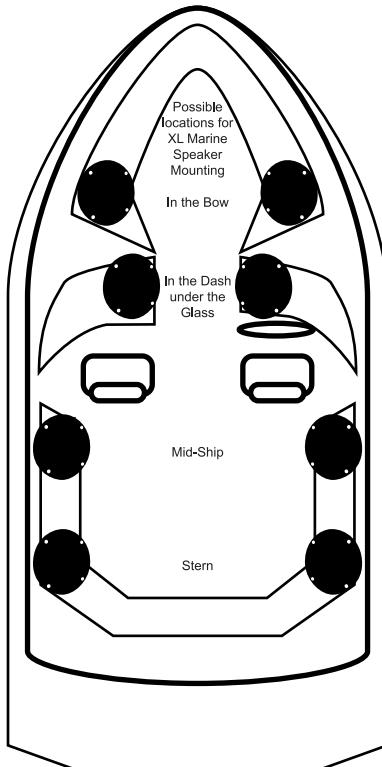
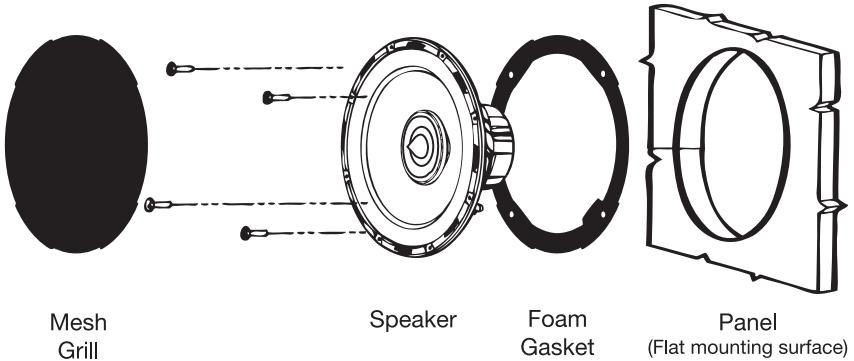


Fig. 2

## MOUNTING

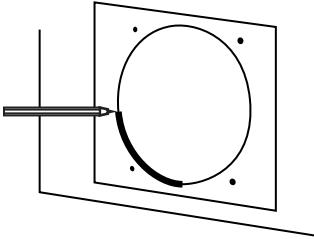
The following drawing shows the typical flush mount installation into a fiberglass panel using the supplied hardware.



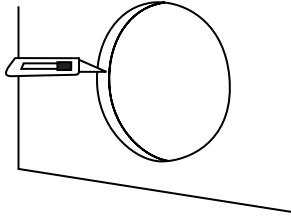
**NOTE: Be sure to use the supplied black putty to secure the mesh grill to the mounting ring.**

Always follow proper safety procedures. Use eye-protection at all times and a dust mask and gloves when cutting. Check both sides of the vessel before cutting any holes.

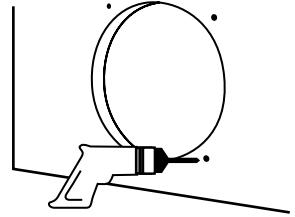
- Choose a flat mounting surface that has sufficient depth and air space behind it to accept the speaker.
- Make sure the stainless steel mounting screws will not puncture the fuel tank, wiring or interfere with any moving parts underneath the mounting surface.
- Use the supplied mounting template to mark the hole (see Fig 3)
- Cut the appropriate diameter hole using a hole saw or jigsaw (see Fig 4)
- Place the speaker in the hole (or use the mounting template) and mark the screw hole locations using a sharp pointed tool.
- Remove the speaker and drill a pilot hole in each of the screw locations. It is advisable to use a hand driven countersink tool on each hole to further inhibit gel-coat cracking of the fiberglass panels (see Fig 5)
- Connect the speaker wire supplied as shown (Fig 6). Read the Wiring Procedures section on Page 10 for further wiring instructions before performing final installation of the speakers.
- Place the speaker into the opening
- While holding the speaker firmly in place, screw in the mounting screws by hand carefully and evenly. Do not over tighten as you fasten the speaker to the baffle.



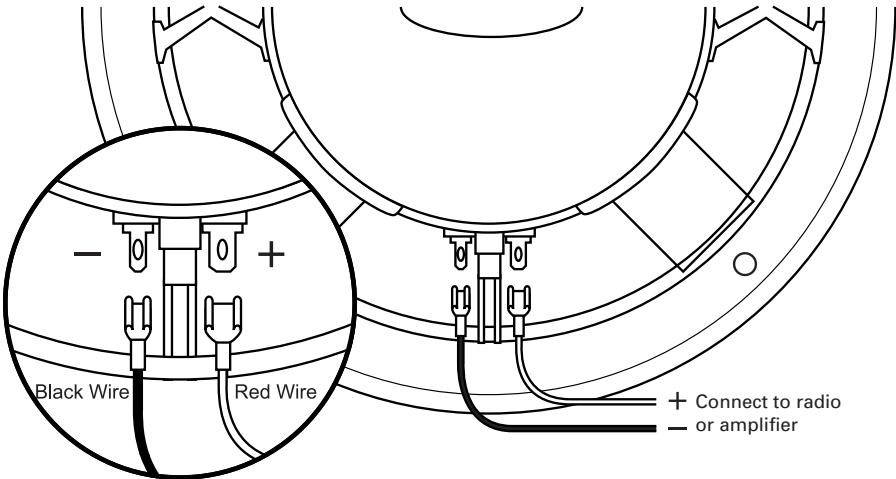
**Fig. 3** Use template sheet inside carton to trace onto mounting location hole



**Fig. 4** Cut hole



**Fig. 5** Drill pilot hole (see chart)



**Fig. 6** Push onto correct size speaker terminal

## WIRING PROCEDURES

Once the mounting holes have been cut, run the speaker wire from the speaker mounting locations back to the radio. If you are running wires through bulkheads, drill holes for the cable and use a marine grade grommet to properly insulate any rough edges from the wire insulation. Make sure the wires will clear any mechanical devices in the boat and secure them with wire ties.

Carefully place the supplied speaker wire in a location that is free of standing water and moving components. For reference the Red wire is Positive and the Black wire is Negative. Connect the gold plated female quick disconnect on the end of the supplied wire to the same color of wire on the gold plated male connector attached to the speaker frame (see Fig 6). Make sure the clear insulated sleeves are covering any exposed connections to protect them from corrosion. Connect the other end of the speaker wire to the radio (or amplifier) in accordance with its owner's manual.

After connecting your new PowerBass XL Powersport speakers to the sound system you are ready to carry out a listening test. Please listen the first time at a low volume setting and check to make sure everything is operating properly.

## GENERAL CARE

The grills may be cleaned with a damp cloth. Do not use any cleaners or solvents on the grills or speaker cones, otherwise the UV inhibitors maybe affected and/or the grills may discolor.



Product Disposal – Certain international, national and/or local laws and/or regulations may apply regarding the disposal of this product. For further detailed information, please contact the retailer where you purchased this product or the PowerBass Importer/Distributor in your country.

# POWERBASS XTREME LIMITED WARRANTY POLICY

PowerBass USA, Inc. offers limited warranty on PowerBass products under normal use on the following terms:

**PowerBass Xtreme Speakers are to be free of defects in material and workmanship for a period of one (1) year. The warranty is extended to three (3) years for parts and labor, if an Authorized PowerBass Xtreme Dealer completes the installation.**

This warranty applies only to PowerBass products sold to consumers by Authorized PowerBass Dealers in the United States of America. Products purchased by consumers from a PowerBass dealer in another country are covered only by that country's Distributor and not by PowerBass USA.

This warranty covers only the original purchaser of PowerBass product. In order to receive service, the purchaser must provide PowerBass with the receipt stating the consumer name, dealer, product and date of purchase.

Products found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at PowerBass's discretion and will not be liable for incidental or consequential damages. PowerBass will not warranty this product under the following situations:

- **Speakers received with bent/cracked frames or significant water damage**
- **Abuse such as holes in the cone, surround or ripped spider**
- **Voice coil damage due to amplifier clipping or distortion**
- **Product that has not been installed according to this owners manual**

Any implied warranties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above. Some states do not allow limitations on the length of an implied warranty, so this limitation may not apply. No person is authorized to assume for PowerBass any other liability in connection with the sale of this product.

**Please call (909) 923-3868 for PowerBass Customer Service.** You must obtain an RA# (Return Authorization Number) to return any product to PowerBass. **The RA number must be prominently marked on the outside of the shipping carton or the delivery will be refused.** Please pack your return carefully; we are not responsible for items damaged in shipping. Return the defective product along with a copy of the original dated retail sales receipt, plus \$12.00 for handling and diagnostic evaluation to:

**PowerBass USA, Inc.,**

**Attn: Returns (RA# \_\_\_\_\_)**

**2133 S. Green Privado, Ontario, CA 91761**

Residents of HI, AK and US territories will be charged for return shipping. All inquires regarding service and warranty should be sent to the above address.

**Removed or altered serial numbers will void this warranty**



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