

A u t o S o u n d

Thank you and Congratulations

Congratulations on your purchase of Powerbass Autosound speaker of uncompromising design and engineering from a firm committed to the relentless pursuit of perfection. Incorporating the latest state-of-the-art materials, these speakers display the ultimate in fidelity, performance and long-lasting reliability.



At PowerBass USA, Inc. we are confident you will have enjoyment from this great SPEAKER investment. For more information we recommend that you have your new PowerBass Autosound installed by an Authorized PowerBass Autosound Dealer.

To learn more about PowerBass, please visit us on the <http://www.powerbassusa.com>

⚠ Warning ⚠

Continuous exposure to sound pressure levels in excess of 100 dB can result in hearing loss. PowerBass Autosound Speakers are capable of producing sound pressure levels up to 170 dB. Please observe all local sound ordinances while listening to your PowerBass Autosound system. PowerBass USA, Inc. accepts no liability for hearing loss, but

S-6C	6.5"	4-ohm	60Hz - 20kHz	90 dB	10 oz.
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Proprietary 2-layer paper, DDC (Dynamic Damping Coating) cone: The choice of cone materials has everything to do with the difference between good and great sound. Paper delivers one of the warmest sounds available along with the DDC finish to give your music uncompromised fidelity.

Double Pressed Treated Rolled Foamed Surround: The high damping, double rolled foam surround on these speakers ensure linear travel throughout the entire frequency range resulting in more bass output and higher efficiency while reducing distortion.

Balanced Pure Silk Soft Dome Tweeter: These hand treated silk dome tweeter incorporate a neodymium motor structure and edge wound ribbon wire voice coil to provide a wide bandwidth.

High Power, Multi-Layer ASV Voice Coil: Aluminum is a high temperature voice coil former that is light weight and designed for greater efficiency and increased power handling that gives you that loud and clear sound that you are listening for.

Crossover Network: The included crossover networks were designed specifically for our speakers to recreate the frequencies within a precise range ensuring the tweeter does not receive low bass notes and the mid bass driver does not receive high frequencies. A Poly Switch current limiter has been added to the crossover circuit to protect the tweeters against overload.

Tweeter Mounting Kit: Flush, surface and angle-mounting cups allows multiple mounting options for custom tailored high frequency dispersion.

Additional Features: Acoustically transparent speaker grills, professional mounting hardware and speaker wires adds further value to your investment.



INSTALLATION EXPERIEN

Installation of PowerBass Autosound Speakers requires expert mechanical and electrical procedures. This manual only provides operation instructions. If you have any reservations about your ability to install the speakers, please contact your local PowerBass

distortion as a so-called warning before any damage occurs. If you hear distortion in your system, immediately reduce the musical level to the point where the sound retains its clarity.

1. Be sure you supply the speakers with enough unclipped amplifier power to drive them properly. **(More damage can be done to a speaker by under-powering and clipping your amplifier than any other way!)**
2. Where possible, a separate amplifier just for your speaker should be used with an electronic crossover to set the frequency range. One amplifier with passive crossovers will work (Tri-Way Setup), but the system will do more with less stress on the amplifier by using two amps.
3. To avoid any possible sound cancellation from the front of the speaker to that of the rear of the speaker, cut a panel of Masonite or MDF to firmly mount the speaker if the vehicle's original cutout is too big.
4. When connecting speaker wires from the amplifier or head unit to that of the speaker itself, pay attention to the polarity of the connection. This will insure optimum sound reproduction and performance.
5. For maximum dynamic performance use weather stripping to insure a tight seal.
6. Do not mount any speakers or external crossovers where they will get wet.
7. Remember the Golden Rule "Measure twice...cut once."

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

- Always wear protective eyewear when using tools.
- Turn off all stereo and other electrical devices before you begin.
- Disconnect the (-) negative lead from your vehicle's battery.
- Keep the speakers in the package until final installation.
- Locate all fuel lines, brake lines, oil lines, and electrical lines.
- Check to see if there is enough clearance behind the speaker.
- When running speaker wires through sheet metal, be sure to properly insulate the wires from metal edges.

INSTALLATION PROCEDURES

- Since these speakers utilize a unique low profile tweeter, original factory mounting cutouts (with factory grills in many cases).
- These PowerBass Autosound speakers can be used above or below a hole. Typically, your vehicle factory's speaker cutouts will accommodate these speakers without any modifications. When the speaker is installed there should be no air leaks between the front and back of the speaker.
- For door installations, check the clearance of the window's travel.
- Check the available mounting depth before installing the speaker. If necessary, remove factory grills, door panels and factory speakers.

speakers is to secure the speaker to the vehicle's speaker mounting hole. Once the speaker is in place, determine if the supplied grill needs to be installed. If so, place the grill in place over the speaker and screw the speaker into the mounting hole.

Component Tweeter

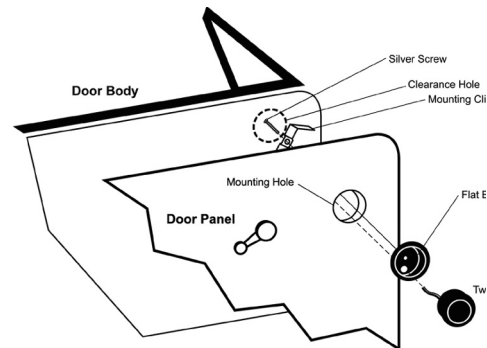
These high quality tweeters come complete with several mounting housings for installation versatility. Once you have chosen the housing that is to be used, gently press the tweeter into the proper mounting cup. Experiment with the tweeter positioned in several locations to determine the best imaging result before cutting out any panel. Typically tweeters should be mounted on axis and as close to ear level as possible. If the tweeter has to be removed from the mounting cup, insert a small screwdriver in the back of the tweeter and carefully push the tweeter from the mounting cup.



3 SERIES COMPONENT TWEETER SPECIFICATIONS

Flush Mounting (Type A)

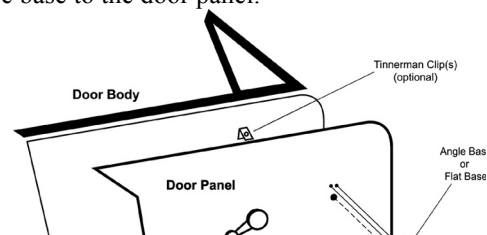
The best location for the tweeter is usually high up on the door possible without interference from the dashboard. If the desired location is behind the door panel allows the use of the flush mount housing shown below:



After checking for clearance, cut the mounting hole in the door panel (refer to the Specifications for hole size). Mount the Flat Base from the tweeter on the inside of the door panel. Secure the mounting clip with the long silver screw provided.

Surface/Angle Mounting (Type B and C)

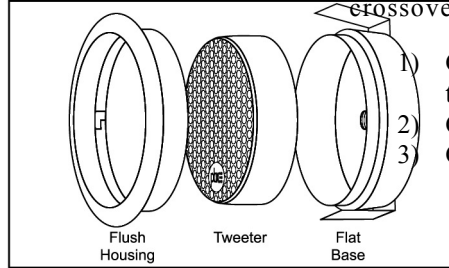
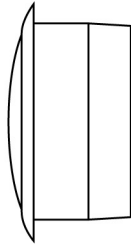
If mounting the tweeter on the surface works out best, refer to the specifications to see how to best mount the tweeter. Black sheet metal screws attach the surface base to the door panel.



mounted, push and “twist” the housing until it locks to the base. Below are exploded views showing the possible types of tweeter mounting. Correct wiring of the crossover is critical to avoid damage and ensure true high fidelity sound. Pay close attention to the crossover to be certain the correct speakers are in the correct

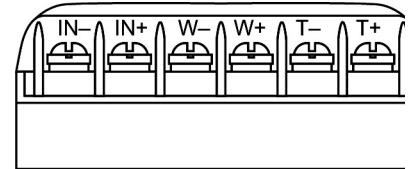
Type A

Flush Mount Tweeter



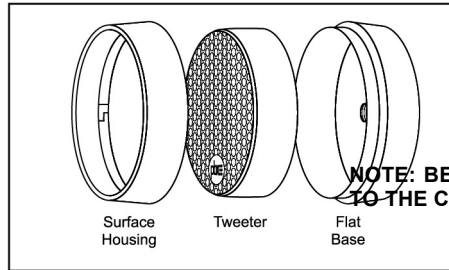
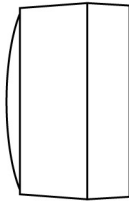
Crossover

- 1) Connect the amplifier or head unit output to tweeter terminals.
- 2) Connect the terminals labeled woofer (W) to the crossover.
- 3) Connect the terminals labeled tweeter (T) to the crossover.



Type B

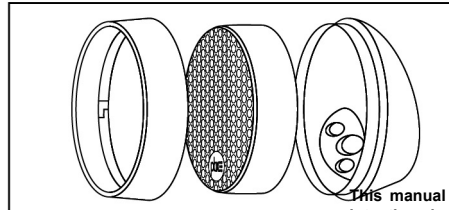
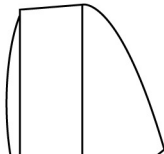
Surface Mount Tweeter



NOTE: BE SURE TO OBSERVE PROPER POLARITY WHEN CONNECTING TO THE CROSSOVER NETWORK TERMINALS.

Type C

Angle Mount Tweeter



PowerBass Autosound Speakers are to be free of defects in material and workmanship for a period of one (1) year.

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 frames or 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) 993-5399 for PowerBass Customer Service. You must obtain 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 \$9.00 for handling and diagnostic evaluation to:

**PowerBass USA, Inc., Attn: Returns (RA# _____)
13936 Mountain Avenue, Chino, CA 91710**

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

PowerBass Autosound – A division of PowerB
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