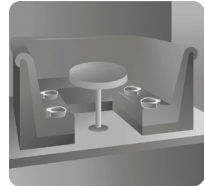
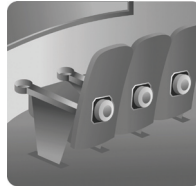
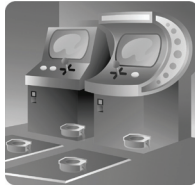
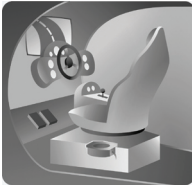


# AURA

S Y S T E M S I N C

## Bass Shaker AST-2B-4 Installation Guide



Congratulations! You are now the proud owner of the Pro Bass Shaker by Aura Systems. Aura's patented technology preserves overall sound pressure levels, so there's no distortion while enhancing the bass energy delivered from your audio system. Pro Bass Shakers add an exciting physical sensation to the sights and sounds of video arcade games, movies, stage shows, multimedia systems, and mobile audio/video!

To achieve the Shaker's full potential, please read this guide thoroughly before you start. Your Shaker was designed to work with a separate amplifier: **do not exceed the rated 50 watts RMS per Shaker multiplied by the number of Shakers (i.e.  $50 \times 4 = 200$  watts RMS)**, as doing so may damage your equipment.

Before beginning your installation, it is a good idea to review how to connect your Shaker(s) to an amplifier:

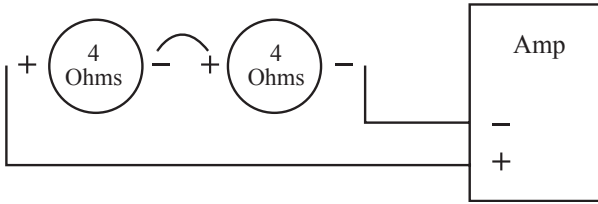
### Connecting a Single Shaker

Each Aura Pro Bass Shaker has a nominal impedance of 4 ohms. Depending on the amplifier driving it, a single Shaker can be hooked up to an amplifier that is in either stereo or bridged mono configuration, the same way "regular" subwoofers are often connected. To ensure safe and reliable operation, please consult the amplifier's manual for details concerning the manufacturer's recommended load ratings.

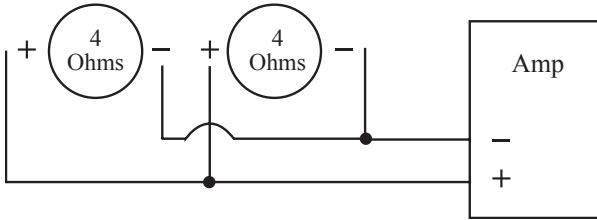
### Connecting Multiple Shakers

Two or four Shakers can be wired together to increase the effect's intensity. Connecting two in series raises the total impedance to 8 ohms (see figure A) Connecting two in parallel (figure B) lowers the impedance to 2 ohms. Connecting four Shakers in series-parallel maintains the impedance at 4 ohms (figure C). Consult the amplifier's manual to ascertain the power produced at various impedances. **In any case, do not exceed the rated 50 watts RMS per Shaker multiplied by the number of Shakers (i.e.  $50 \times 4 = 200$  watts RMS).**

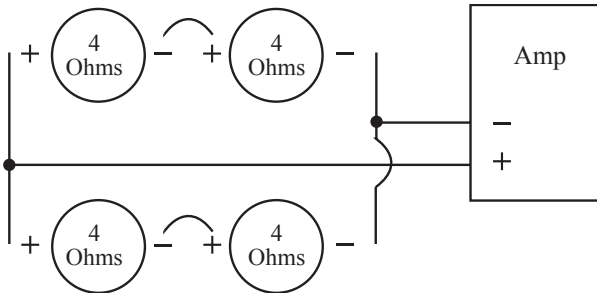
**Figure A, Series Connection, 8 ohms**



**Figure B, Parallel Connection, 2 ohms**



**Figure C, Series-Parallel Connection, 4 ohms**

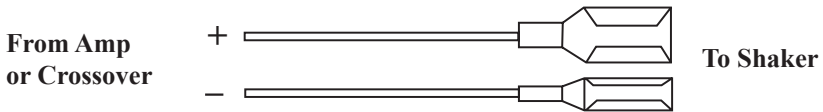


## **Installation in a Home**

Mounting Aura Pro Bass Shakers to furniture will yield the greatest effects if the chair or couch is decoupled from the floor. Doing so will transfer the concentrated bass energy to user's bodies instead of dispersing it into the floor structure. The use of rubber feet or isolation pads is highly recommended, even on carpet.

1. Select an area on the furniture's underside that will be more or less centered beneath the user. Multiple Shakers may be mounted in close proximity to each other, and distributed for the benefit of multiple users.
2. If a flat, stiff structure is not available at the optimum mounting position, it is suggested that a bridge or support should be added to the furniture's structure. Plywood or hardwood is a good choice of material for this.  
**Use good woodworking practices to ensure the support is strong and solidly mounted.**

- The ideal mounting position for a Bass Shaker will be free from fabric, padding, or any other insulating material. **It is important the transducer makes solid contact with a smooth, flat surface.**
- Using a crimping tool, crimp the supplied “disconnect terminals” to the wire ends as shown below. **Ensure no bare wires are visible through the insulation.**

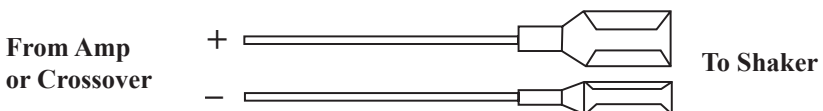


- Mount the Shaker at the desired location by using four wood screws or Stingers. Use short screws to avoid damage to other areas.
- Using a Phillips head screwdriver, carefully remove the top cover of the shaker by unscrewing the four screws. **This will not void the warranty.**
- Feed the two wires (with the crimped terminals) through the cover’s opening, working from outside to the inside. Install the wider terminal to the wider lug (marked +) on the Shaker, and the narrower one to the other.
- Re-install the top cover by aligning its four holes with those in the base plate, and secure using the four Phillips head screws. **Be sure that no bare wires are touching the metal cover.**
- The Aura Pro Bass Shaker is now ready to enhance your home theater, music, or gaming experience!

### Installation in a Vehicle

Mounting the Shakers under the front seats is recommended.

- Move the seat as far forward as you can, or if possible, remove it.
- Using a soft hammer or a mallet, knock on the floor under the seat’s usual position. Find a spot that vibrates the most. **It is important the selected area is flat so that the Shakers mount with full contact.**
- It is recommended the Shakers are mounted directly to the floor with minimal padding.** In some cases it might be necessary to cut out portions of the carpet if the cushioning is very thick.
- For easier installation, run all wires **prior** to mounting the Shakers in place.
- Use extreme caution not to cut or drill into electrical wiring (check under the carpet), hydraulic or brake lines, fuel lines, or the gas tank.**
- Using a crimping tool, crimp the supplied “disconnect terminals” to the wire ends as shown below. **Ensure no bare wires are visible through the insulation.**



7. Mount the Shaker at the desired location by using four sheet metal screws or Stingers. Use short screws to avoid damage to other areas.
8. Using a Phillips head screwdriver, carefully remove the top cover of the shaker by unscrewing the four screws. **This will not void the warranty.**
9. Feed the two wires (with the crimped terminals) through the cover's opening, working from outside to the inside. Install the wider terminal to the wider lug (marked +) on the Shaker, and the narrower one to the other.
10. Re-install the top cover by aligning its four holes with those in the base plate, and secure using the four Phillips head screws. **Be sure that no bare wires are touching the metal cover.**
11. You are now ready to enjoy the Aura Pro Bass Shaker effect in your vehicle!

## Aura Sound Manufacturer Warranty

### **Warranty:**

All products are warranted free from defects in material and workmanship for one year from date of purchase. Warranty does not apply to misuse, abuse, neglect, accident, improper use, etc.

### **Contact:**

Parts Express, Phone: 1-800-338-0531 ext. 770

### **Return Process:**

Call Parts Express to obtain an RA#. Pack merchandise carefully to avoid further damage, and include the completed Return Form that is on the bottom of the invoice. Record the customer and RA# on the outside of the box. Ship merchandise back to Parts Express prepaid.



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