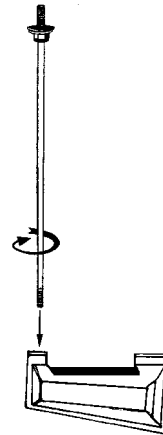


Assembly & Installation Instructions

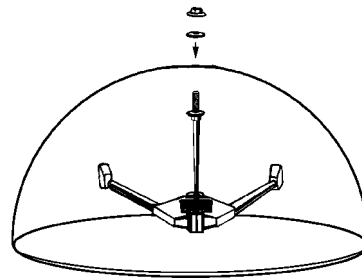
(Please refer to the Parts Diagram sheet for equipment identification)

- 1) Unpack contents of parts bag and remove top **flange nut** and **washer** from **vertical spacing shaft**.

- 2) Screw short, threaded side of **vertical spacing shaft** into the top of **speaker enclosure assembly**.



- 3) Place **VAI dome** on floor with the opening face down.



- 4) Lift edge of **dome** with one hand. Grasp **speaker enclosure assembly** from underneath. Feed end of **vertical spacing shaft** up through the hole in the center of **dome** and place a **washer** (rubber side down, against dome) onto protruding tip of **vertical spacing shaft**.

- 5) Choose the desired mounting method from the following lettered sub-section:

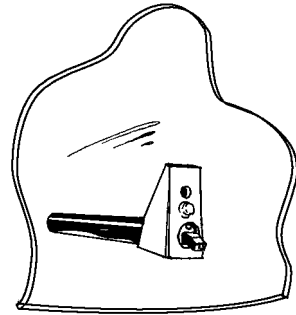
A) If mounting with **three point cable**, thread **flange nut** onto end of shaft. Tighten lightly with wrench. Then, place **washer** on **eyebolt** and insert **eyebolt** into single hole at front of **dome**. Reach inside of **dome** and place a **washer** with rubber pressing against **dome** onto **bolt**. Thread **acorn nut** onto **bolt**. Tighten lightly with wrench. Proceed to step 6.

B) If mounting with **single threaded rod**, thread **coupling nut** onto end of shaft. Tighten lightly with wrench. Proceed to step 6.

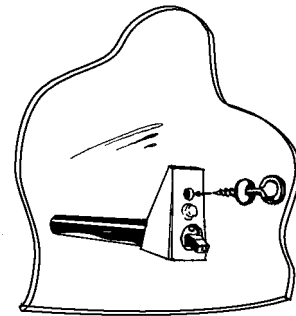
C) If mounting with **TriMount Pole System**, do not attach nut at this stage of assembly. Proceed to step 6.

- 6 Fit speaker connection terminals on feet of **speaker enclosure assembly** into the two large holes in the side of the **VAI dome**.

(Note: If Vocalizer feature was purchased with unit a wire will be protruding from one of the feet. Cut wire tie and feed Vocalizer wire through the nearest large hole before fitting connection terminals into hole.



- 7) Place **washer** (rubber side facing the same way as point of **eyescrew**) on **eyescrew** and screw **eyescrew** by hand into small hole in the side of the dome. Screw into each foot of **speaker enclosure** until snug and rubber bumper on foot presses lightly against the dome. **Do not over tighten the bumper**. The wooden foot should not touch the acrylic dome.



Note: This completes the assembly of the VAI Dome and its internal components. **Proceed to the next section to ensure that your VAI Dome operates properly.**

Phasing, Positioning, and Alignment of the VAI Dome

Note: The phasing, positioning, and alignment of the VAI is critical! Failure to properly perform any of the following directions will result in decreased sound performance.

Phasing

Note: Connect VAI to amplifier using 18 gauge speaker wire for lengths under 20 feet. Use 16 gauge speaker wire for 20 to 50 foot lengths. Before inserting wires into connection terminals (Figure A), be sure to trim plastic insulation from tips of wires only a quarter of an inch to avoid potentially shorting out the wires. For each lead, twist the exposed strands of wire into a single tight tip.

You should have two single tight tips at the end of each speaker wire. (Figure B)

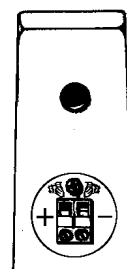


Figure A



Figure B

- 1) Face dome so that the edge of dome is facing down and connection terminals are visible. Wrap wire around eyescrew. (Figure C) Insert positive conductor of one speaker wire (smooth side of wire) into red-marked positive terminal on right foot of speaker enclosure. Secure by turning corresponding screw clockwise with small, flat screwdriver.



Figure C

- 2) Place ground side of wire (ribbed side of wire) into hole marked with a minus sign. Tighten corresponding screw.
- 3) Insert positive conductor of second wire into positive terminal on left foot and tighten screw. Insert ground into hole marked with minus sign and tighten. Run wire in desired manner to back of amplifier.

- 4) Connect free ends of speaker wires to corresponding terminals on amplifier. (Figures D and E) The wires running from the terminals on the dome must match with the connections on the amplifier, i.e., positives on dome to positives on amplifier, and negatives to negatives. This is referred to as proper polarity. Failure to match polarity will place the speakers out of phase, resulting in decreased sound performance.

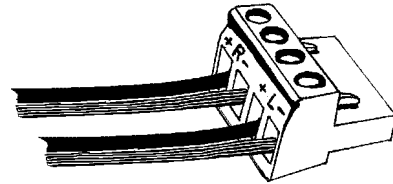


Figure D

Note: For easier installation of speaker wire into back of amplifier, the terminal block module snaps out of the back of the amp. Snap out the module, insert wires (+,-) into the corresponding terminals and tighten with screwdriver. Snap module back into amplifier.

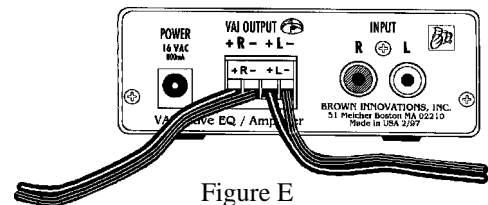


Figure E

Test: If sound quality is very thin or hollow you have the phasing wrong. Simply switch the positive and negative connection on **one channel only**. Play music through the system. If sound quality improves, the polarity is now correct.

Placement of the Localizer sound dome is critical to achieve optimal sound and localization. There are two key factors which must be taken into consideration:

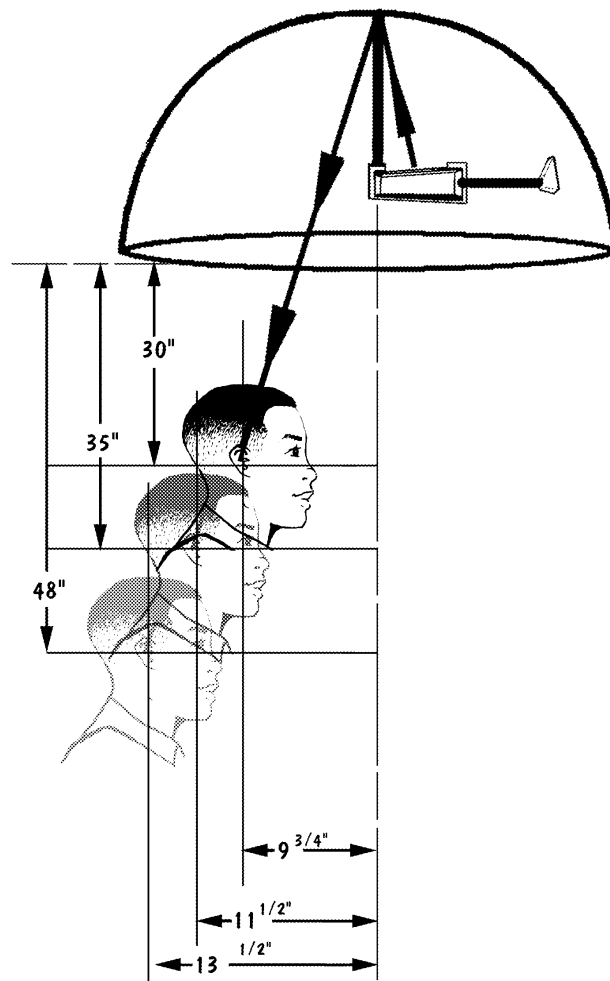
- The sound image created by the Localizer is projected forward from the center of the dome, thus the listener must be positioned under the front half of the Localizer sound dome for optimal performance, as illustrated below. Notice how the listener is not directly beneath the center of the dome, but rather he is roughly 10" behind the imaginary center line.

- The mounting height of the Localizer sound dome must correspond with the chart on the following page to ensure proper audio isolation and stereo quality sound.

Positioning Chart

The “x” value in the chart represents the distance the listener should be positioned away from an imaginary “plum” line running from the center of the dome to the floor.

Note: If mounting higher than 48” above listener’s head, a special vertical spacing shaft must be ordered free of charge from Brown Innovations, Inc. 773.477.7500.



Alignment

The alignment of the dome is also very important to ensuring the optimal performance of the unit. Although the dome is spherical there is only one correct alignment. When properly installed, the listener will be able to look up while standing in the front half of the dome and see a “V” shape formed by the legs protruding from the speaker enclosure. The point of this “V” will point to the listener’s forehead and the legs will extend away from the listener, into the back side of the dome.

