

# PlanarTrap™



- ◆ A must-have for every tweaker's toolkit
- ◆ Combines absorption and specular diffusion in one product
- ◆ Improves clarity, imaging & soundstaging
- ◆ Economical, versatile, and freestanding
- ◆ Controls strong boundary reflections
- ◆ Ships flat and assembles easily

## Fine Tune Your Sound Stage



The ASC PlanarTrap is a freestanding and highly engineered acoustic room component designed to control strong boundary reflections off side and back walls - while also providing an added degree of diffusive backscattering. Increase imaging and improve soundstage by absorbing signal "crosstalk", when left/right signals cross the room. If your listening room has a row of windows or other acoustically asymmetrical wall surface, the PlanarTrap helps to rebalance the room acoustic. Used along walls, or placed in corners, this is quite a versatile product. A unique feature is that it is shipped flat, and is easily assembled at home.

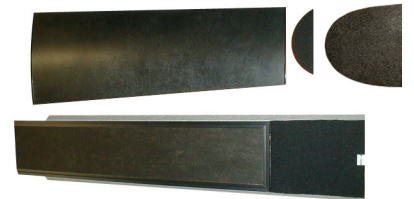


### ASC Finish Quality: The Best Available

The R & D Department spent considerable time to develop and voice this unique high end acoustic device. Deceptively simple and lightweight, the PlanarTrap can be moved and adjusted for just the right sound. Sit back and enjoy your high end gear knowing that ASC is world class.

## Hand Built, One At A Time

There are two basic components in the PlanarTrap. The Trap features an absorption panel which measures 15" wide by 60" in length by 2" thick. There's also a poly diffuser/bass trap which also doubles as a stand, sealed by top and bottom end plugs. The absorption panel is made of medium density acoustic fiberglass, fully encapsulated by an acoustically transparent liner to prevent glass fibers from escaping into your room. Each Trap also comes with our patented diffuser strips built-in and special edge hardening to improve durability and preserve corner integrity. Finally, we cover each Trap with Guilford fabric. PlanarTraps are available covered with 5 in-stock Guilford of Maine 701 fabrics, or choose from many special order colors to match your specific needs. Custom sizes and thicknesses are also available.



## How the PlanarTrap Works

The principle of 3-D stereo imaging requires left and right signal separation from the speakers to your ears. The PlanarTrap is an aid in this regard, since signal separation rapidly falls apart in the room acoustic. On the next page, find out how to use PlanarTraps.

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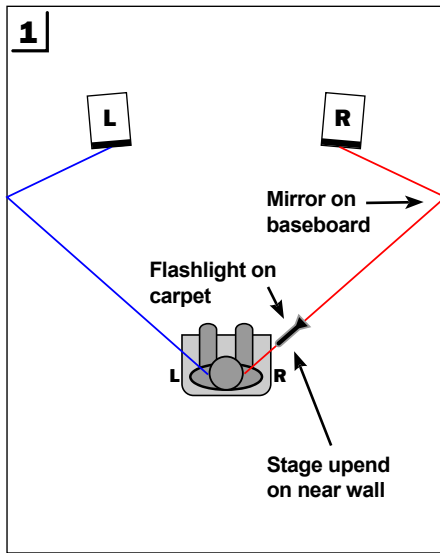
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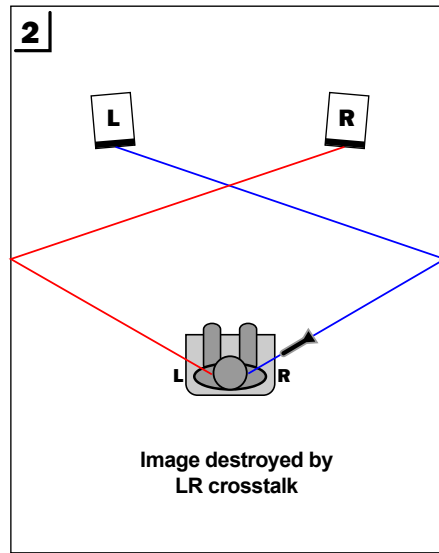
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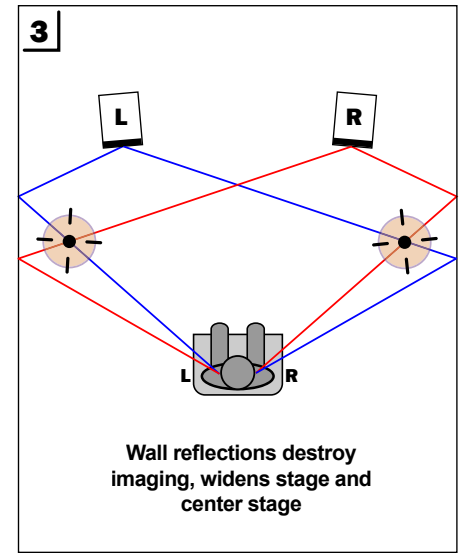
## How to set up the PlanarTrap



Start with your room fully set up and speakers properly positioned. To determine the first sidewall reflection points, gather up a flashlight, a mirror, and masking tape. Set the mirror on the wall so that the speaker can be beamed from the listening position. Use masking tape on floor to mark beam path.

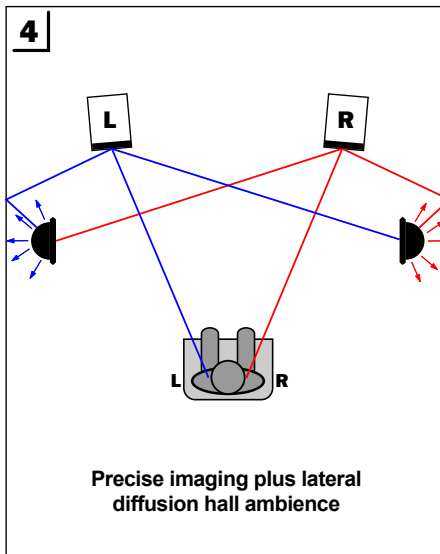


For cross-stage reflection points, repeat the same exercise, except mark the beam path for the wall opposite each speaker. Shown in Figure 2, this should be also be marked with masking tape. This is an important step since LR crosstalk is what destroys good imaging.



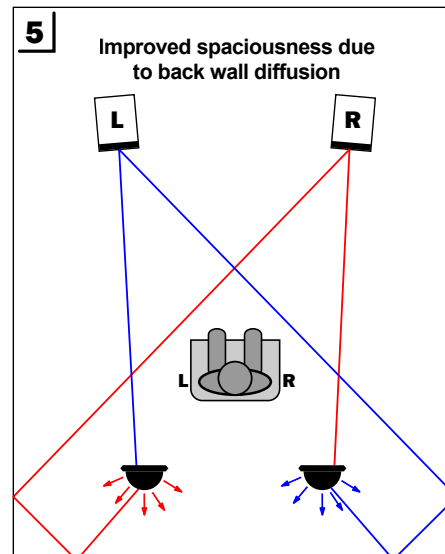
There is a point where the left and right sidewall reflection signals cross. The steps taken in Figures 1 and 2 should have that crossover point marked in masking tape on the floor. Figure 3 illustrates those hot spots circled.

## Side wall setup



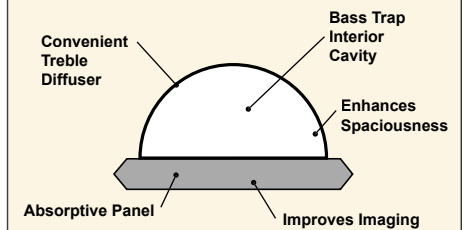
Position PlanarTraps centered directly over each crossover point with the absorption panels facing in towards each other. Figure 4 illustrates how the PlanarTrap absorbs and diffuses the crossed signal in order to increase channel definition.

## Rear wall setup



Add an additional pair of PlanarTraps behind the listening position to help deal with rear wall bounce. Sound bouncing off the rear wall kills stage perspective, yet too much absorption kills ambience. Using PlanarTraps to absorb and diffuse will alleviate much of this dilemma.

## PlanarTrap Specifications



Panel Size: 15" x 60" x 2"

Panel Density: 4 lbs. per square foot

Fire Rating: Class 1

NRC Rating: 1.15

Backing: Black Felt

Frame: 45° "V" Bevel

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**ASC-TUBE TRAP 1-800-ASC-TUBE**