

### **About Exciter Mounting**

Exciters are mounted on a flat, flexible surface using the self-adhesive tape after removing the protective paper ring. They make sound by vibrating the surface to which they are stuck using the inertia of its own mass to exert a force on that surface. That surface then vibrates the air around it to make the sound. Therefore, the surface to which it is stuck determines how much sound you get out. It should be flat and flexible. Exciters work well in foam models where the foam thickness is less than 5mm (3/16 inch). Rigid surfaces such as epoxied fiberglass or epoxied balsa wood are not very effective since they are too stiff and inflexible.

Occasionally, the self-adhesive ring may not hold the exciter permanently on the foam surface. In this case use of the Foam-Tac adhesive by Beacon Adhesives, Inc. is recommended as it remains flexible once dry.

If mounting them in a foam model, make sure there is no mold release agent residue left on the foam surface as that will inhibit strong adhesion.

Please also see this article from the exciter manufacturer:

<http://www.modelsoundsinc.com/datasheets/UnderstandingAndUsingExciters.pdf>

### **About Loudspeaker Mounting**

Loudspeakers can be mounted anywhere there is space to house them. There should be a small space behind the loudspeaker to avoid undue air back pressure. They have a metal frame and a paper or plastic cone to transfer vibrations to the surrounding air which is the sound you hear.

The front (cone) of the loudspeaker must be open to the outside air so that the sound can escape and be heard without being muffled. This means that a hole that is a little smaller than the outer diameter of the loudspeaker is required in your model to let the sound out. This hole is usually covered with a piece of aluminium window mesh that is lightly painted to match your model's colour scheme. On model boats this can sometimes be disguised as a hatch cover.

Please also see these hints for loudspeaker mounting on our website:

<http://www.modelsoundsinc.com/loudspeaker-installation.php>