

Modification to a Rotating Tribiach for use in a Masonry Wall

Updates:

12 Oct 05 Corrected (step 5) drill bit size.



1) Remove brass legs by using a 5/64" allen wrench. Save the set screws.



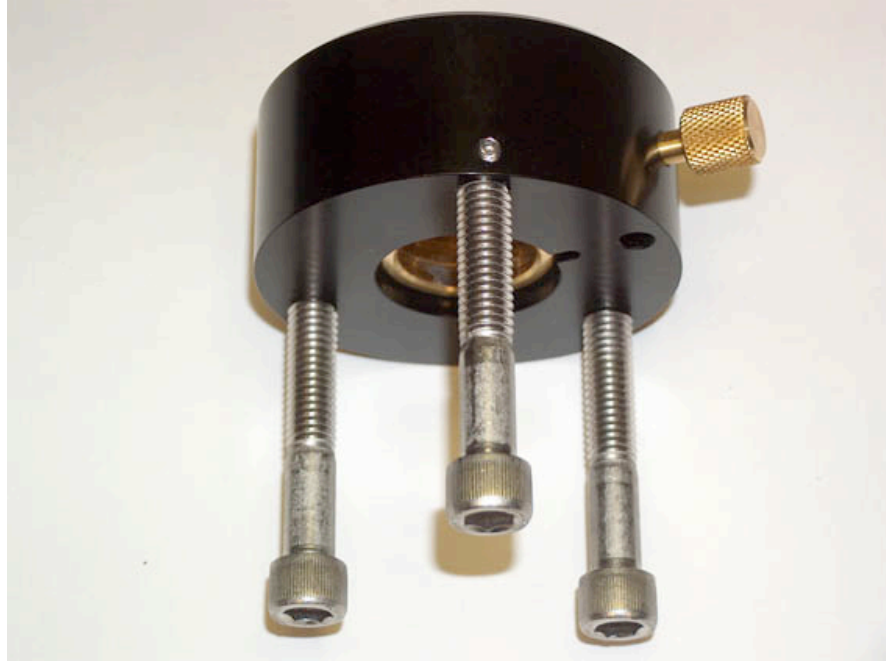
2) Remove brass center of adaptor and set up a standard drill press to cut machine threads by hand using a 3/8" - 16 Bottoming Tap similar to Greenfield #14159, or McMaster-Carr #2521A643. The drill press is an easy way to cut a straight set of threads.



3) Unlock drill press table and adjust height to align tap with a leg hole of adapter. Snug the table up to the tap so you can start cutting threads. Apply a few drops of oil to the tap for lubrication.



4) Using hand power only firmly hold the adapter and turn the tap in the drill press about 1/3 of a turn. Release the right hand and adjust the table up to a snug position again. Repeat until the tap bottoms out. Lower table a few inches and turn the tap back to release the adapter. Repeat for the other 2 leg holes. Cotton swabs work well to remove cuttings



5) Insert fasteners that will hold the adapter and replace the 3 small set screws. The length should fit the installation. Shown are 3/8" – 16 stainless socket cap screws 2.5" long. A portable hammer drill with a 5/8" bit works well in drilling the holes.



6) The use of standard wood shims under the antenna adapter will aid in leveling while the epoxy sets up. Two tubes of 1 oz. epoxy are required. After the epoxy sets, cut the wood shims away from the side of the adapter and finish the installation with a bead of caulk around the bottom edge and over the set screws to prevent moisture penetration.