Subject: 4 Pi Screws Posted by mantha3 on Mon, 01 Oct 2012 16:20:12 GMT View Forum Message <> Reply to Message

Hi

What size screws are people using for the 4PI

For the 2226 it looks like I see #10 size with a locking T Nut on the back

For the Emmenance H290 are people using a #8 size T Nut?

Thanks for the help on this journey all!

Subject: Re: 4 Pi Screws Posted by Wayne Parham on Mon, 01 Oct 2012 17:54:04 GMT View Forum Message <> Reply to Message

I like using T-nuts for the larger drivers, 10-32 size button head or hex head screws. Wood screws are fine for dome tweeters and small cone speakers, but I do like something a bit more substantial for horns and larger prosound drivers. Some people prefer threaded inserts - and those are great too - but I've worked through all the problems you commonly run into with T-nuts so I'm good with them. The trick is to get good T-nuts (like from Midwest Fastener) and pull them into the wood before assembly.

Don't beat them in with a hammer, and don't pull them in place when you're putting the speaker together. Use a washer and a sacrificial screw (or three) to gradually pull the T-Nut in by tightening it down. Only use the screw to pull-in three or four T-nuts, then discard it and get a new one. I also recommend a drop of PL adhesive on each T-Nut to hold it firmly in place.

Don't skimp on this step. You are planning for the T-Nuts to last the life of the cabinet, and to provide you with trouble-free, serviceable access. If you install them as I've described, they'll be that for you. But if you don't, they can be a real pain.

Every time I hear of someone complaining about T-Nuts, it's because they've failed from one of these causes:

1. Tapped the T-Nuts in with a hammer - The tangs bent, and the T-Nut is loose, held only by the screw clamping force. So when you loosen the screw, the T-Nut spins. Makes it really hard to get the speaker out for service.

2. Didn't put a spot of epoxy on the T-Nut - Even if the tangs go in straight, a few knocks on the head of a partially loosened screw can make the T-Nuts come loose. They hold pretty well, but it's easy insurance to add a dab of PL adhesive during assembly. Just a dab though, don't get any on the threads.

3. Pulled the T-Nuts in with a screw, as described, but used the same screw over and over again, damaging the T-Nut threads - Sacrifice the screw, only use it to set two or three T-Nuts. You don't

want them to have damaged threads, 'cause once they're installed, they're permanent.

Put 'em in right, and they'll last a lifetime, giving you trouble-free serviceable access. But put 'em in wrong, and you'll be frustrated to no end when it's time for a woofer to come out.

Subject: Re: 4 Pi Screws Posted by mantha3 on Mon, 01 Oct 2012 22:19:41 GMT View Forum Message <> Reply to Message

Wayne,

That all makes sense and I'll work to your advice. Thank you for the details on how to avoid issues down the road. Experience!

Thanks man

PS - I'll be posting some on this build here to share

Thanks, Andy

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