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Subject: Flush-Mounting Tips Please : )

Posted by [Muzikal-JRNE](#) on Wed, 16 Mar 2011 15:06:42 GMT

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I am open to any tips on how to flush mount the horn and woofer for my 3pi speaker build.

I am planning on adding a 5/8" layer of MDF to the outside face of the front baffle. This will allow me to cut out a hole for the outer diameter of the (TD12S) woofer, which will make it now flush mounted. The outer dimension of the TD12S is 12.5". What size hole diameter should I cut? 12-1/2" 12-9/16" 12-5/8"?

I am not sure yet on how I am going to cut the recess for the horn. I believe the H290 horn flange is 3/8" deep. I don't know if I should try to route a 3/8" recess, or to just cut out the entire 5/8" and use a few layers of speaker gasket tape to flush the horn back out. I have never tried to make straight interior cuts with a router, but I am up to give it a try. Radius-ed corners? Will I need to make some kind of Jig? Remove 1/4" depth per pass?

BTW...I have a plunge router (w/ "Large" Jasper Circle Jig ), jig saw and table saw.

Cheers, Joe

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Subject: Re: Flush-Mounting Tips Please : )

Posted by [Wayne Parham](#) on Wed, 16 Mar 2011 15:26:54 GMT

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What we do is to route a groove that is about 1/16" deeper than needed to allow space for a gasket. It should also have about 1/16" gap around the outer edge, so make it 1/8" larger in diameter, i.e. 12-5/8".

You can use any number of things for gasket material, felt, cardboard, etc. I prefer to use PVC sheets. You can get it at any hardware store as shower pan material.

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Subject: Re: Flush-Mounting Tips Please : )

Posted by [Muzikal-JRNE](#) on Wed, 16 Mar 2011 15:53:40 GMT

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Thanks Wayne. Do still recommend using an additional gasket for the TD12S? I believe it comes with an integrated rubber gasket?

Cheers, Joe

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Subject: Re: Flush-Mounting Tips Please : )  
Posted by [Wayne Parham](#) on Wed, 16 Mar 2011 16:16:05 GMT  
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That's right, it's a wrap-around gasket that also serves as a decorative piece. You don't need the PVC gasket with that woofer but you might need to cut a little larger. It's thicker than 1/16", closer to 1/8". So it not only needs to be that much deeper, but also the diameter of the routed cutout needs to be a little larger too because the rubber piece wraps around the edge.

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Subject: Re: Flush-Mounting Tips Please : )  
Posted by [Bill Epstein](#) on Wed, 16 Mar 2011 19:17:24 GMT  
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I don't know the size of the rabbet required so this info may not be useful, but for about \$45 you can buy a Freud or Whiteside rabbet bit set. These sets have different size bearings that make the cutter reveal anywhere from 1/4" to 5/8" rabbet, The bearing follows the cut-out you made with the Jasper, just like a flush trim bit, and you set any depth you want.

Eliminates the need for a jig.

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Subject: Re: Flush-Mounting Tips Please : )  
Posted by [Muzikal-JRNE](#) on Mon, 21 Mar 2011 20:39:19 GMT  
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Wayne, what grit sandpaper would you recommend using to grind down the casting marks on the horn? Wet/Dry? I have a random orbital sander or I could do it by hand.

I'm trying to get my ducks in a row to be able to start building in Mid-April.

Cheers, Joe

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