

# Flush Mounting an Irregular Face Plates

[http://www.audiodycentral.com/nt\\_ireg-drvcutouts.shtml](http://www.audiodycentral.com/nt_ireg-drvcutouts.shtml) - this link is dead.

Try this instead:

[https://www.reddit.com/r/diyaudio/comments/4ysmms/tutorial\\_how\\_to\\_flushmount\\_irregular\\_shaped/](https://www.reddit.com/r/diyaudio/comments/4ysmms/tutorial_how_to_flushmount_irregular_shaped/)

Cutting circular rebates to mount drivers with circular faceplates is not too difficult (especially with the Jasper Jig). But what do you do when your favorite driver has an odd-shaped faceplate?

In this tutorial, James Yeung outlines the steps required to cut perfect rebates for these odd-shaped faceplates. And it's as simple as one, two, three!

## 3 simple steps:

Tools required: Router, 1/4" spiral bit, and 3/4" template collar bushing:

1. Pass router around driver plate using 1/4" bit to make template #1
2. Pass router inside first template using 1/4" bit to create template #2
3. Attach 3/4" bushing and pass router inside template #2 and voila, perfect recessed baffle!

Picture: Template #1 (top), Template #2 (middle), recessed baffle (bottom)



### Step 1: Template #1

Making template #1 is the most critical part. Everything else will be a breeze!

Screw down driver plate onto scrap MDF large enough for the router base to go around the perimeter of the driver plate. This will be template #1.

Place an extra scrap piece of wood under template #1 to prevent unwanted table top damage.



Firmly clamp down everything onto the work bench. With  $\frac{1}{4}$ " spiral bit, firmly hold router base against the driver plate. Make a few passes until it completely cuts through the MDF.

Always keep the router base firmly pressed against the driver plate until it completely cuts through template #1. If your router has an asymmetrical plate, always maintain the same orientation.

### Step 2: With $\frac{1}{4}$ " spiral bit, use template #1 to make **template #2**.

Pass router several times around the inside of template #1 until it completely cuts through template #2.



### Step 3: As you can see, template #2 is exactly $\frac{1}{4}$ " larger around than the perimeter of the driver plate.

Attach the  $\frac{3}{4}$ " bushing and use template #2 to create the actual recessed cutout on the baffle.





Locate template #2 on actual speaker baffle to route out the recess for the driver plate. Be aware that template #2 is  $\frac{1}{4}$ " wider around the perimeter of the driver plate. The depth will vary with the flange depth of the speaker driver.



As you can see, I penciled in the perimeter of template #2 on the actual speaker baffle to make sure everything is aligned properly.

### **That's it!**

There you have it. This method can be applied to basically any flush mounting application imaginable including circular speaker drivers for those who do not wish to fork out for a Jasper Jig.

Visit my web site at [www.exquisiteaudio.ca](http://www.exquisiteaudio.ca). If you have any questions or comments feel free to email me at [j.yeung8364@rogers.com](mailto:j.yeung8364@rogers.com)