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Subject: Re: 4Pi Rough concept  
Posted by [ggnarley](#) on Sat, 07 Jul 2018 15:12:44 GMT  
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Picked up second set of drivers for other speaker. Had a hiccup with each one. Went to install the wave guide on the B&C DE250 and noticed one of the 4 screws that go through the back was a bit higher than others. Removed it and tried putting it back in and felt it was a bit tight. Put a tiny dab of oil on it and it went in much better. Was installing the t-nuts on the JBL 2226 and got to the 5th one and noticed it was a different size. I got 5 the correct size and 3 wrong. (Called Harmon and they are sending out new hardware package). Had to remove one and reinstall at four sides to get it installed for testing.

Also used another method to install insulation. Got some 5/8 dowels and put a screw in each side to hold insulation. I think it looks and works much better than old way.

Got to listen for a couple hours at moderate volume as everyone was out of house. (Will talk about sound later, but for now one word WOW!!!) Anyway, wife came home looked at speakers in about area where they will be and said they looked good.

That got me to thinking about grill treatment. My original idea was to wrap speaker on 3 sides with cloth and make solid wood top. After positioning them, they are a bit tall for end tables and think in our room they will need to be raised a bit get sound at better level. Also, they are heavy. Need my son to help carry them. I am going to be transporting these to different functions and could see the grill cloth on the sided getting tore up when moving them. Sooo

Decided to try an inset grill instead. Ripped 3/4" baltic birch scraps of cabinet to 1" depth. Have question though. Will this depth interfere with baffle diffraction? The frame is still outside of the 45 and 90 degree pattern of the wave guide. One thought is to cut off the top of frame to just cover the midbass driver if it does make a difference and work on a thinner or no grill for top. Can't go any less in depth as I don't want speaker hitting grill when playing normally. I have rounded the corners on frame, and for now will lightly tack up one grill to see how it goes and sounds.

Had to rabbet out edge of frame to accommodate edge of wave guide

Final position of grill on speaker

Paul

## File Attachments

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- 1) [Frame\\_On\\_Speaker.jpg](#), downloaded 937 times
  - 2) [babbet.jpg](#), downloaded 920 times
  - 3) [frame\\_back.jpg](#), downloaded 889 times
  - 4) [Insulation\\_New\\_Old.jpg](#), downloaded 930 times
  - 5) [Dowel.jpg](#), downloaded 924 times
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