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Subject: 3 PI build

Posted by [BFP](#) on Thu, 16 Jan 2014 20:58:34 GMT

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Hi folks

I've started a 3PI build. I am using the Eminence 4012HO woofer and a B&C DE250 horn driver. I have the PI H290C horns from Wayne. I am adding 4" to the overall height of the box and will house the crossover in the resulting compartment underneath. The internal dimensions are identical to the PI 3 plans developed by Wayne. I have some flared ports that are about 2 3/4" diameter that are long enough to be cut down to length for the 3.

I had some 3/4" Baltic Birch which will be used for the inner ply of a 2 layer baffle and also for the back panel. I will be using 3/4" MDF for the sides and top/bottom. Bracing will be a mix of the 2 materials as well.

I started by building the crossover board and back plate. I used 1/2" MDF and some scraps of BB for bracing. I put a couple of thin pieces of particle board on the bottom to act as spacers for tie wraps or bolt head clearance.

I am using a mix of parts. Coils are 14G Solen. Resistors are the 25w non inductive Mills heat sinked resistors. I mounted them on pieces of 1/4" Aluminium that I had in my scrap metal pile. For capacitors I had some North Creek Zen and Crescendo caps that add up to 7uf so they are doing duty as the first tweeter cap. The rest are Axon 250volt. Wire is mostly the component leads or 12 gauge OFC Anti Cable enamelled speaker cable wire. For the driver leads I had some 14g OFC wire for the woofers and 16G monster cable for the tweeters. This is mostly bits and pieces I had in stock but should get the job done. Solder was Cardas tri eutectic. Here is one under construction and also a top view of the finished unit. These will slide into the empty space at the bottom rear of the box.

That's all for now. Next instalment will be starting to work on the box itself.

## File Attachments

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- 1) [DSCF9507.jpg](#), downloaded 9450 times
  - 2) [DSCF9508.jpg](#), downloaded 9342 times
  - 3) [DSCF9510.jpg](#), downloaded 9344 times
  - 4) [DSCF9513.jpg](#), downloaded 9378 times
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