



TWF6 desktop speaker

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dirtbike
New Member

Join Date: May 2021
Posts: 34

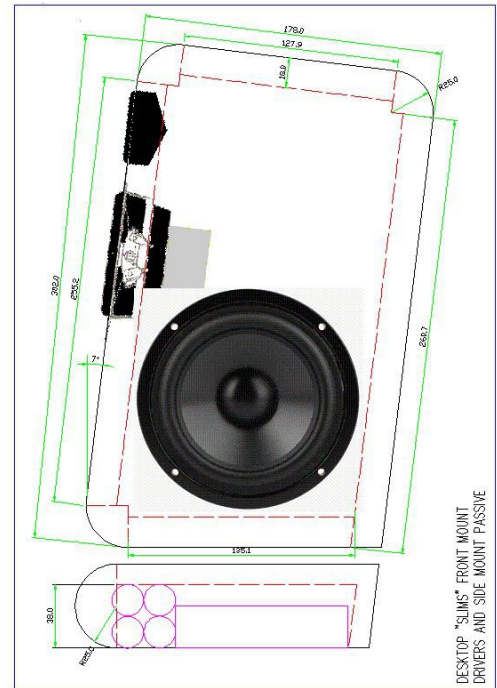
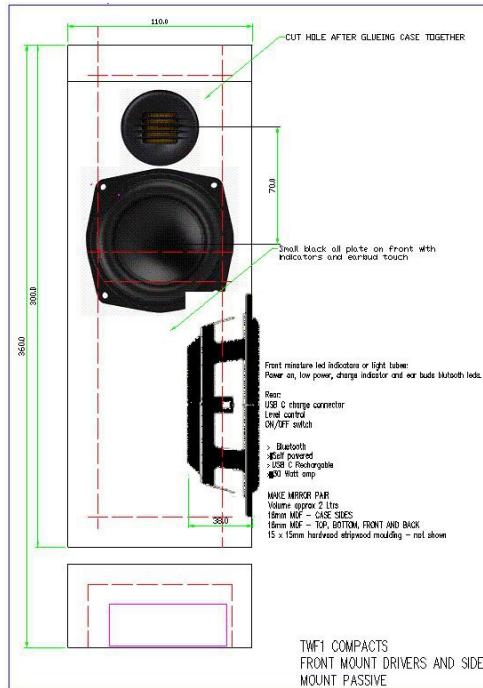
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TWF6 desktop speaker

06-08-2021, 08:43 AM

#1

ased on feedback from my Desktop slims post I decided to start a new post and new speaker name. I'm indebted to **tomzarbo** for his Bantams design on which the TWFs are based.



The main features being slimmer, taller, and deeper with a larger side mount passive radiator (which I think looks better in the larger space). The front and top will have rounded edges. The volume is about 2 liters. A small plinth will house the electronics (more of that later). The finish will be a real wood veneer all around.

I experimented first with some 25mm quadrants to check I could successfully get the veneer to go around the curves without splitting. I was very pleased with the results.



Drivers and crossover parts.



Tags: None

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1



djg

Seasoned Veteran

Join Date: May 2008
Posts: 8267

06-08-2021, 12:34 PM

#2

I like the look and the shape. Leaned back and elevated off the desktop.

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06-22-2021, 05:37 AM

#3

.Used my new CNC to add the cutouts for the speakers. Could not have done this without a CNC

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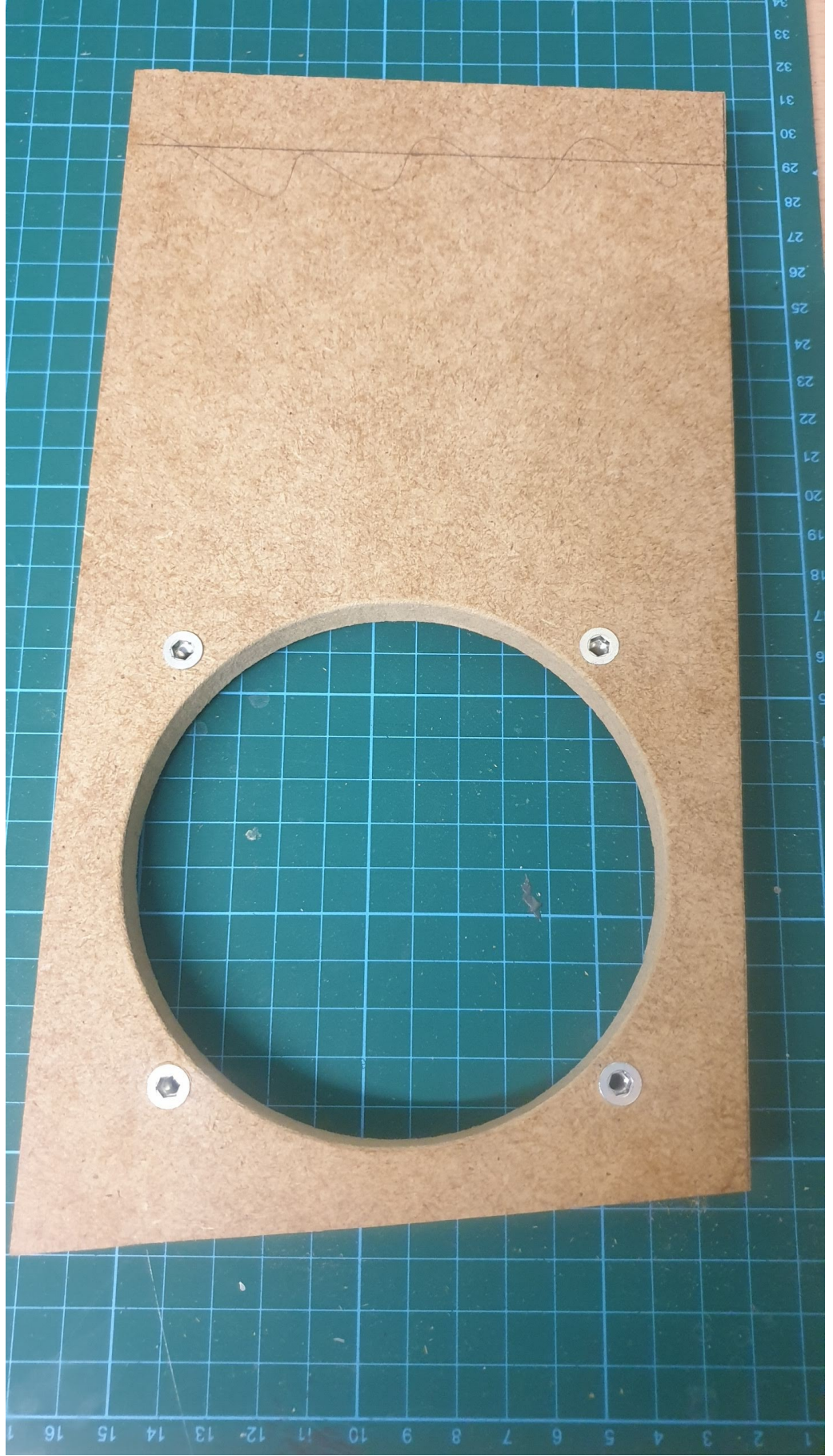
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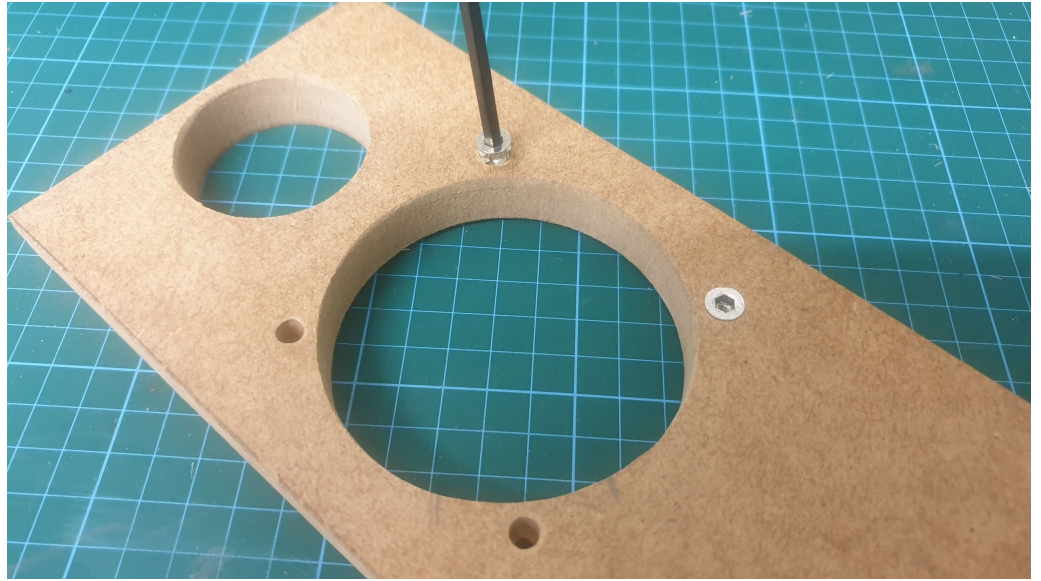
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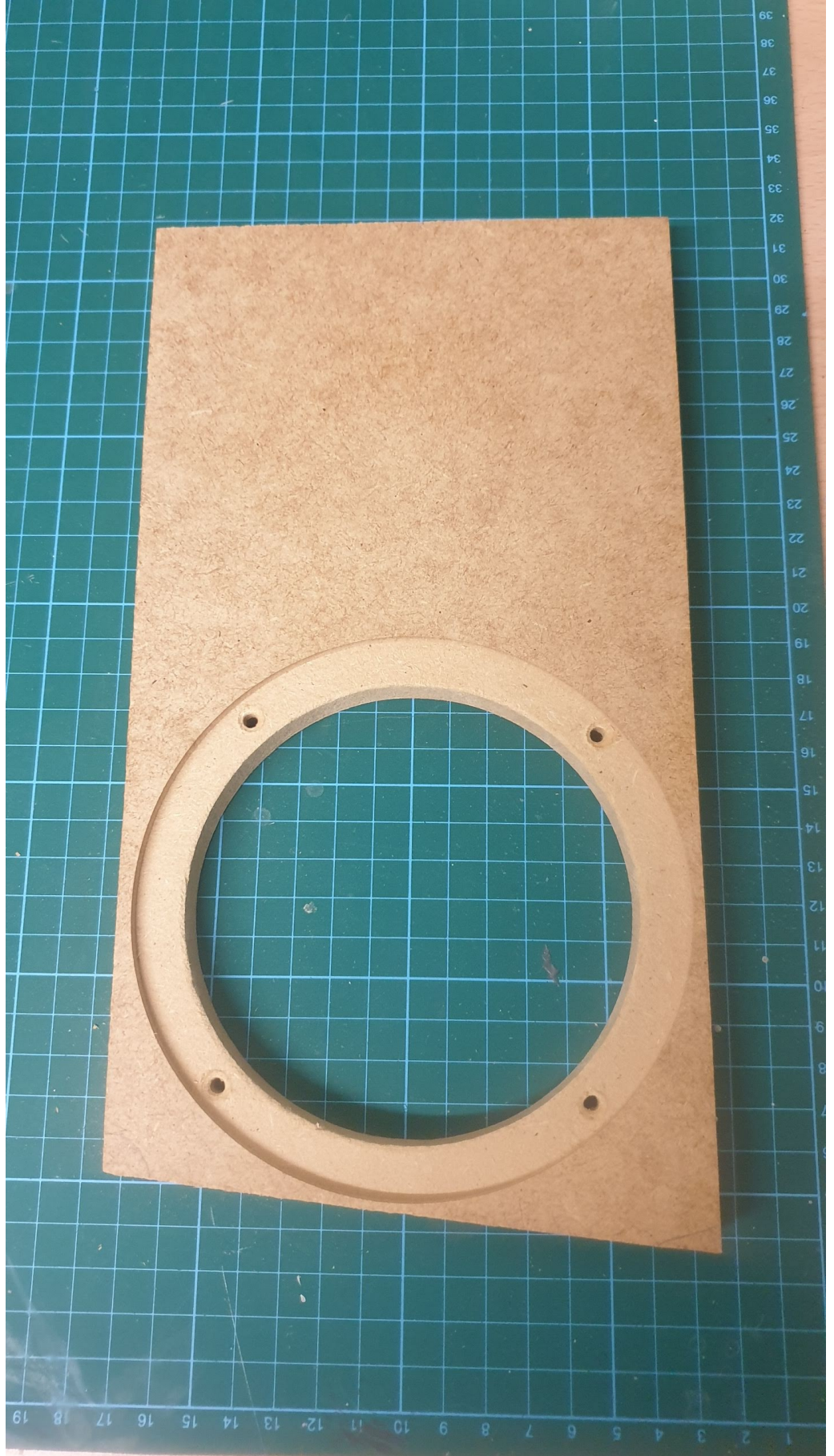
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Very pleased with the results.
Used 4mm threaded inserts to fix the speakers.

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06-22-2021, 05:41 AM

#4

Test fit all the drivers fit OK using 4mm cap screws that I will replace with a different style.

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1 comment



djg commented
06-22-2021, 04:31 PM

#4.1

Nice neat work.

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3rutu5

Seasoned Veteran

Join Date: Jul 2018
Posts: 1267

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06-22-2021, 06:57 AM

#5

Looking good, how are you powering it with a usb c connector,? You have a 5v amp?

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06-22-2021, 08:32 AM

#6

Yes I am. It will be using USB C with the power delivery function. Meaning I can use a USB C charger that can deliver up to 20 volts. There will be more details on this arrangement soon.

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06-23-2021, 03:39 AM

#7

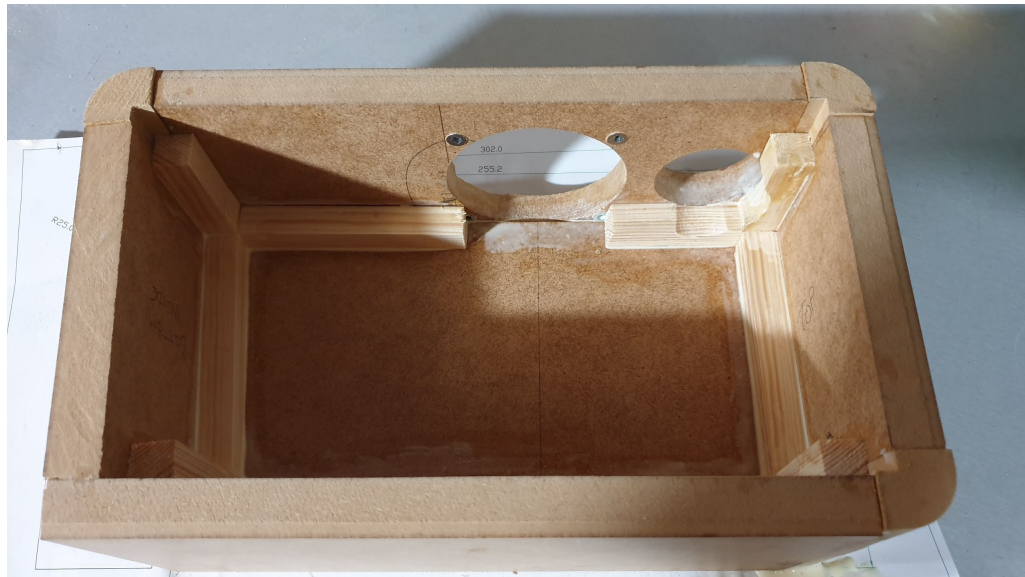
More progress. Assembly of the cut parts. There is a right and left pair.
I used 18mm MDF and 25mm MDF quadrant cut to length. I had to route the inside corners of the quadrant so I could fit 15mm battens inside.
Everything fitted together well. The quadrant were cut a little longer (1.5mm) so I could sand them back flush with the sides of the case.
I had to be careful not to cover the threaded inserts with the battens.
I used Titebond 5065 for all the joints - never used it before, it's really good, grabs the wood quickly and holds it in place. I didn't need any pins or screws to hold it together.
built it over full-size Acad drawings which is why there is paper still stuck to the sides in the last picture!

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01-0077
Ben Around Awhile

06-23-2021, 04:06 AM

#8

Hi dirtbike,
Mind sharing which cnc you purchased?
Thanks, John.

Join Date: Jan 2015
Posts: 86

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06-26-2021, 09:29 PM

#9

Nice! CNC does a great job. I need to get one! lol

DeZZar

Senior Member

Join Date: Dec 2019
Posts: 645

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Constructions: [Dayton+SB 2-Way v1](#) | [Dayton+SB 2-Way v2](#) | [Fabios \(SB Monitors\)](#)
Refurbs: [KLH 2](#) | [Rega Ela Mk1](#)

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06-28-2021, 07:32 PM

#10

From the pic of the spindle and clamps I am guessing it is a SainSmart Genmitsu PROVerXL 4030 CNC Router.

01-0077

Been Around Awhile

Join Date: Jan 2015
Posts: 86

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07-29-2021, 10:44 AM

#11

I have got a lot more done in the last month.
First the crossover

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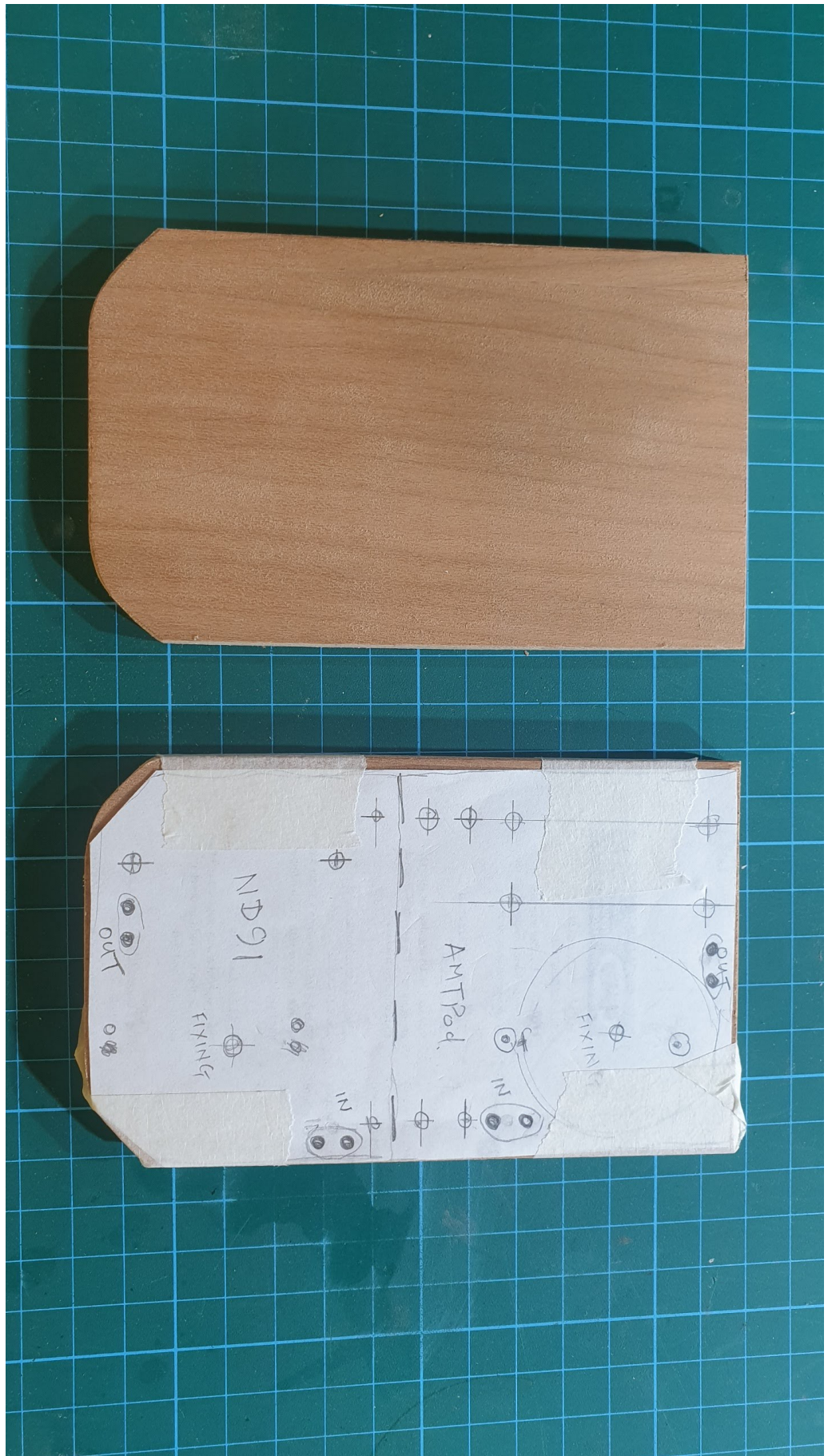
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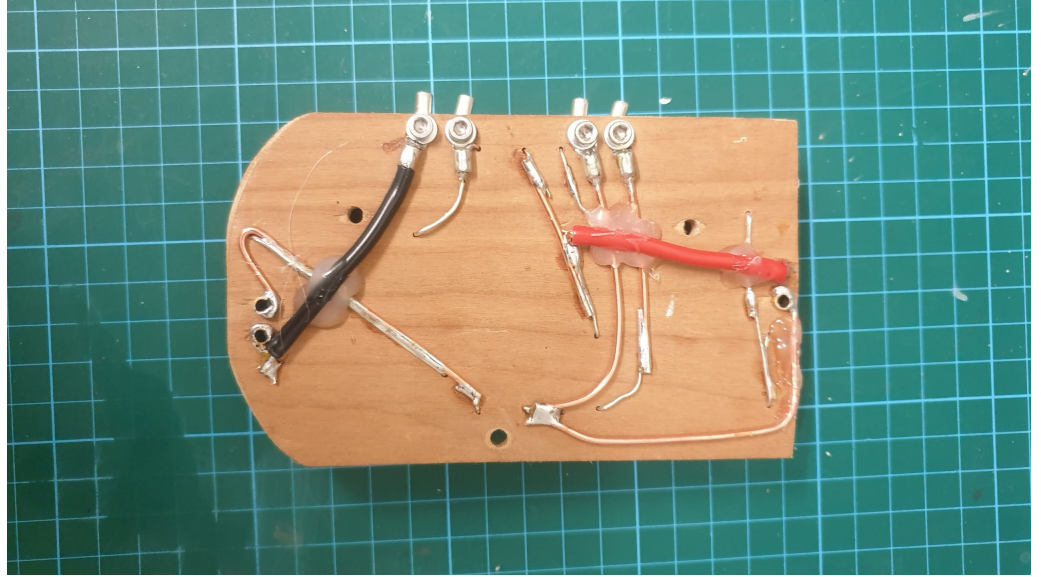
#12

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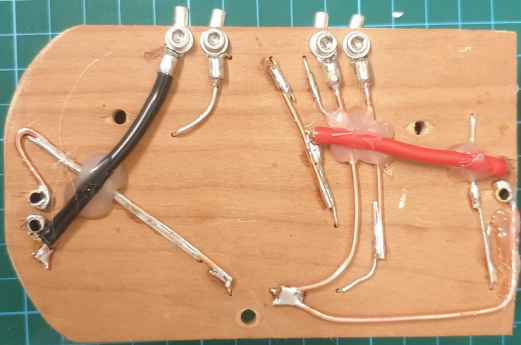
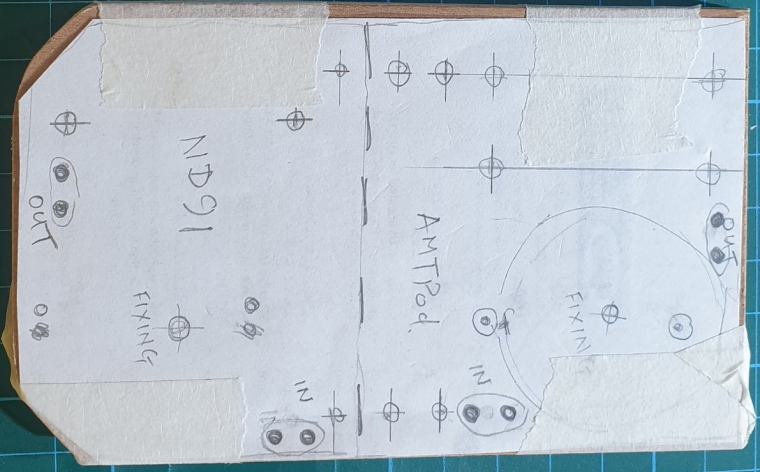
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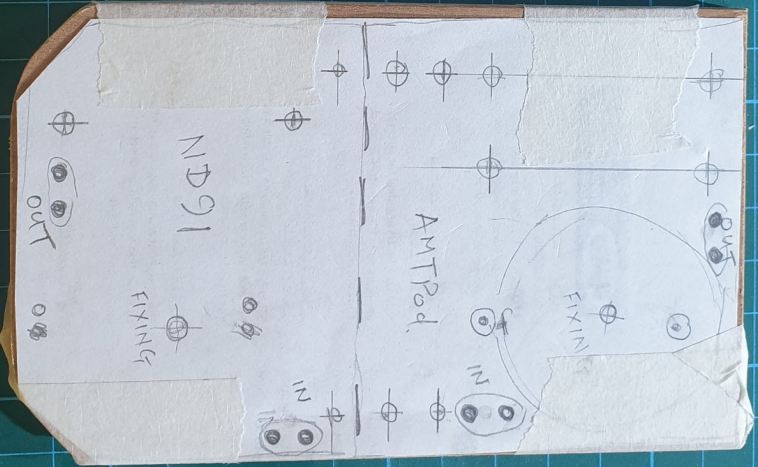
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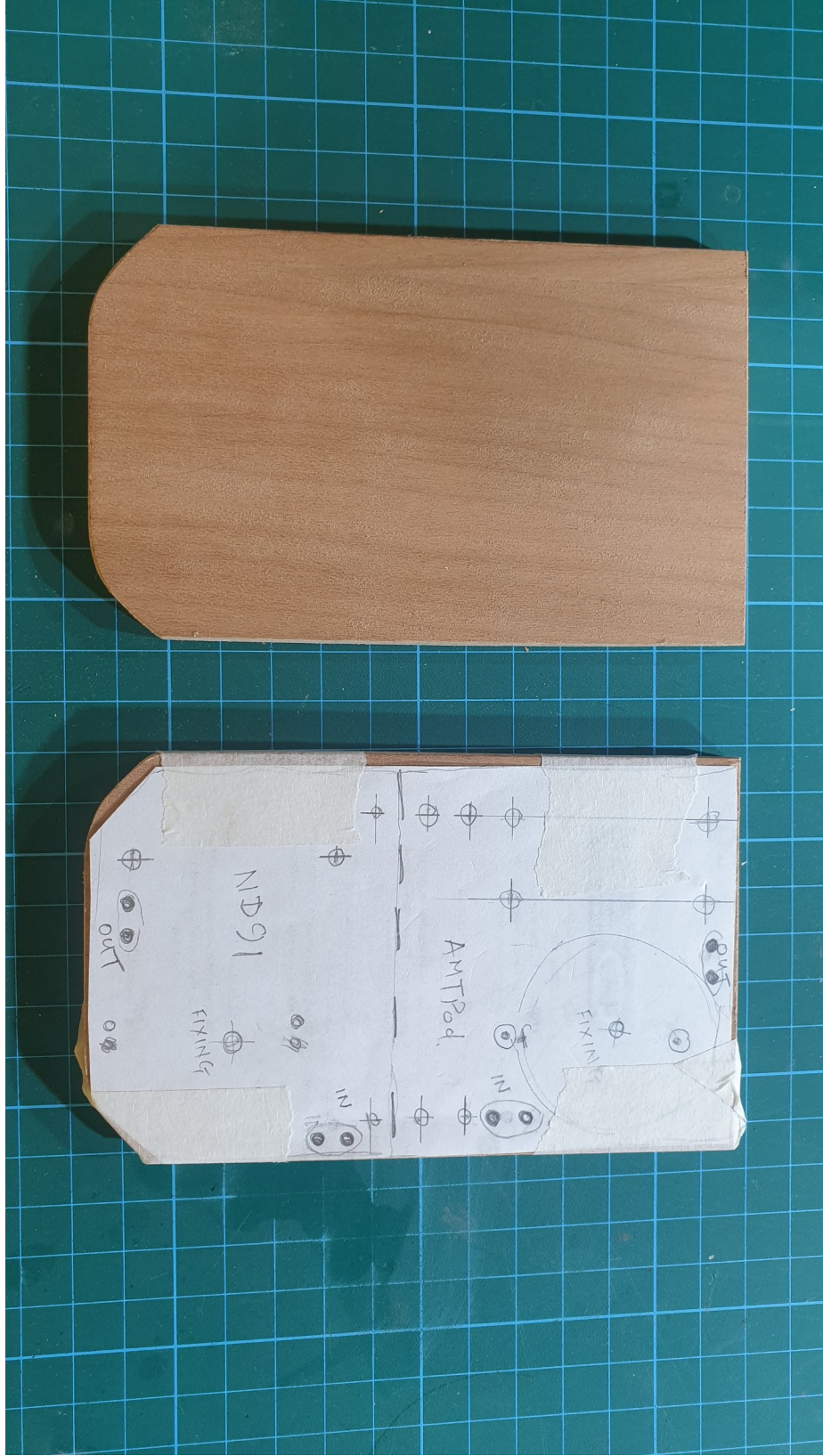




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07-29-2021, 10:48 AM

#13

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07-29-2021, 10:49 AM

#14

I used screw terminals to connect the crossover to the amplifier, and solder terminals from the crossover to the loudspeakers.

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07-29-2021, 10:57 AM

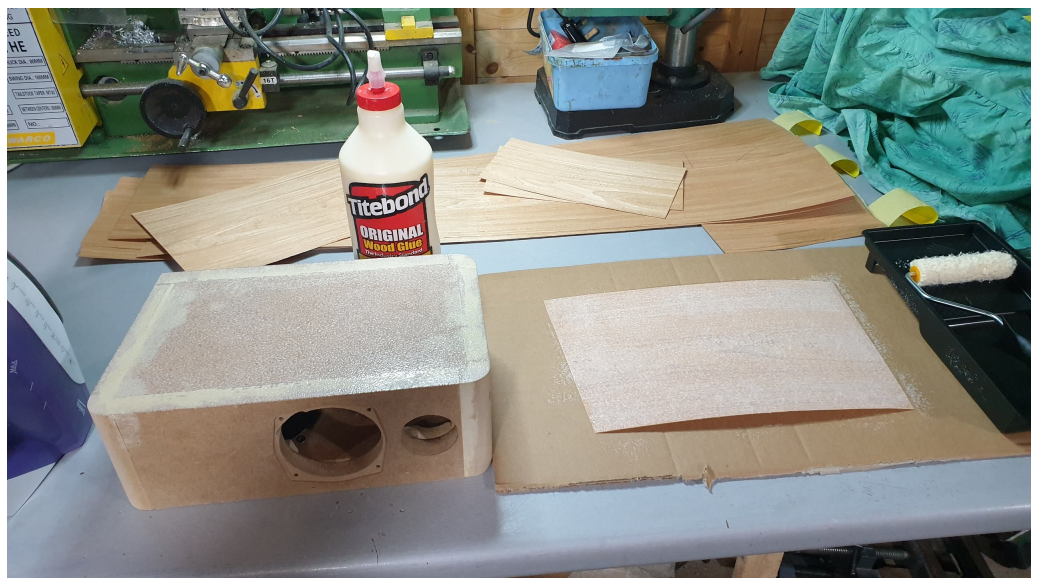
#15

Covering the speakers with veneer.

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07-30-2021, 07:53 AM

#16

Looking Good!
I'm jealous of your woofer recess, that's nice.

TomZ

tomzarbo

Seasoned Veteran

Join Date: Jan 2006
Posts: 6463

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Zarbo Audio Projects Youtube Channel:
<https://www.youtube.com/channel/UCEZ...aFQSTI6NdOwgxQ> * 320-641 Amp Review Youtube:
<https://youtu.be/ugjfcl5p6m0> *Veneering curves, seams, using heat-lock iron on method *Trimming veneer & tips *Curved Sides glue-up video
 *Part 2 *Gluing multiple curved laminations of HDF

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Today, 06:13 AM

#17

I thought I should finish this build diary, so here are some more pictures and details.

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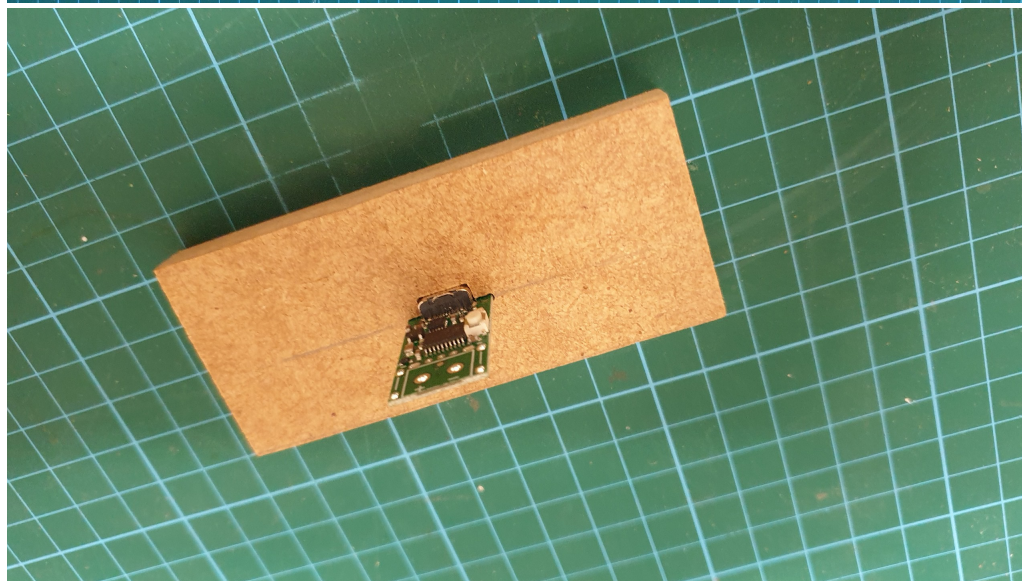
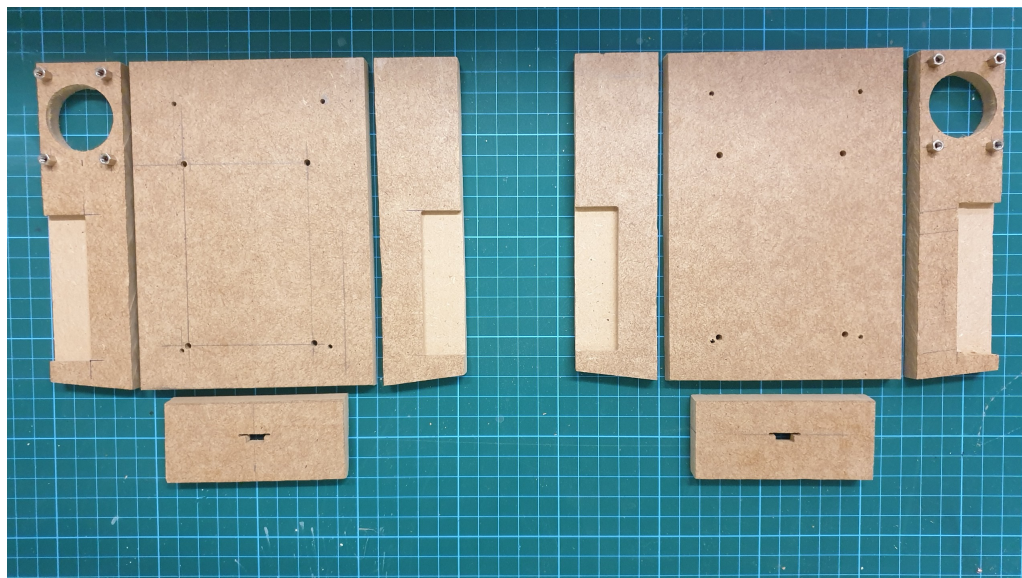
Base module for the Bluetooth amp, batteries, charger, and battery status panel.

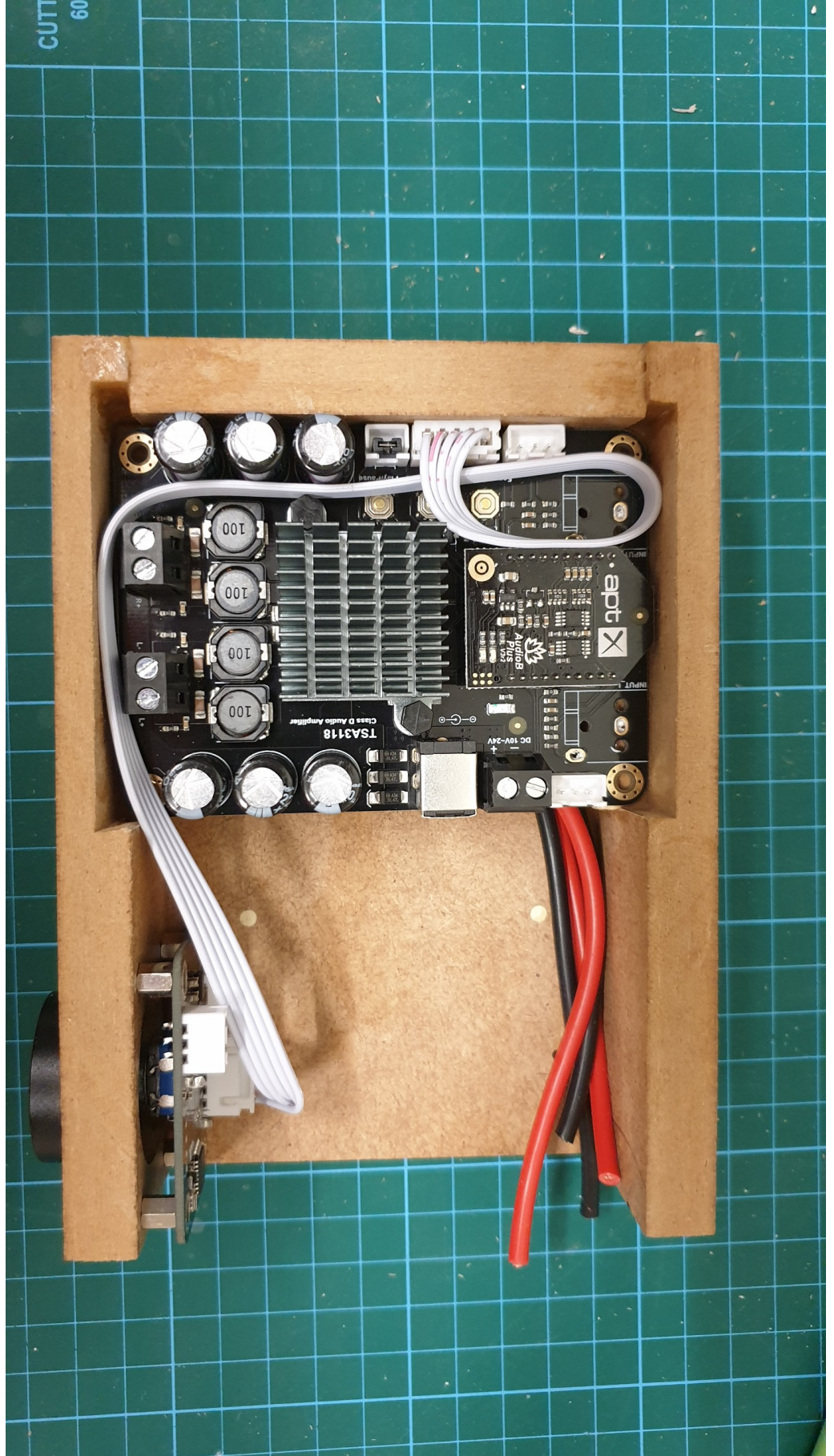
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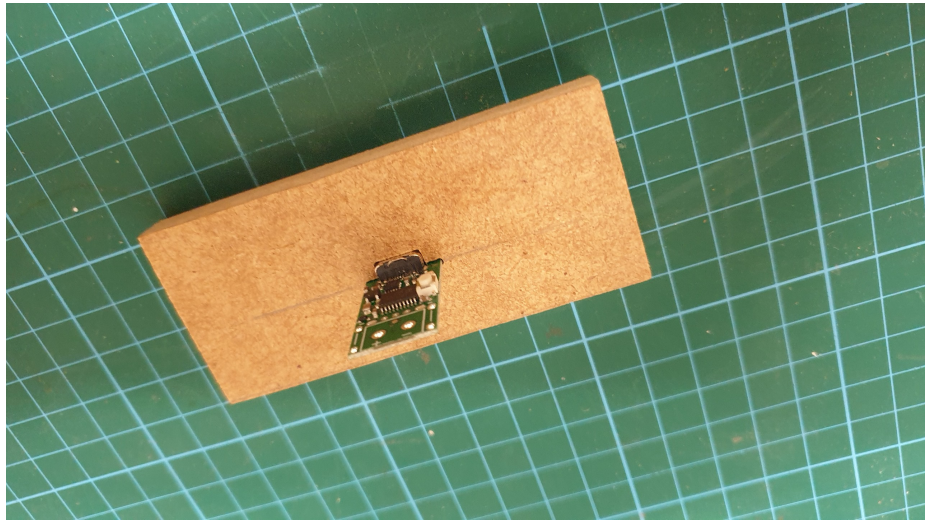
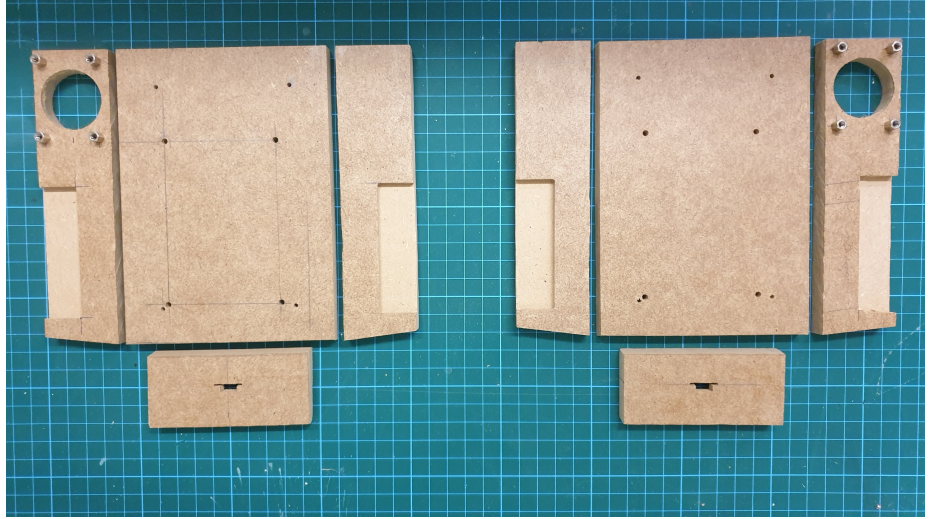
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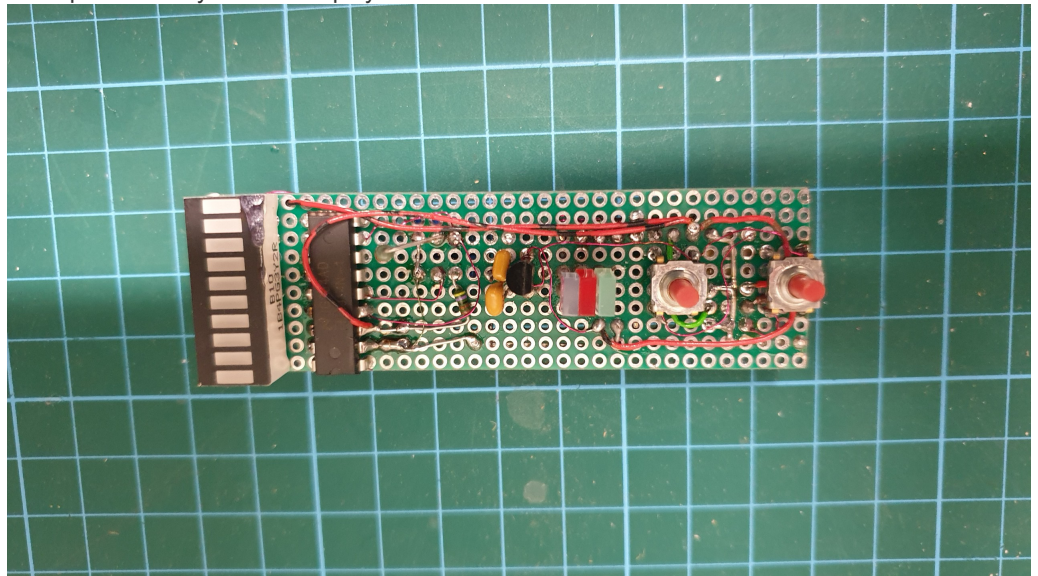
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#19

Front panel battery monitor display and ON/OFF



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Today, 06:34 AM

#20

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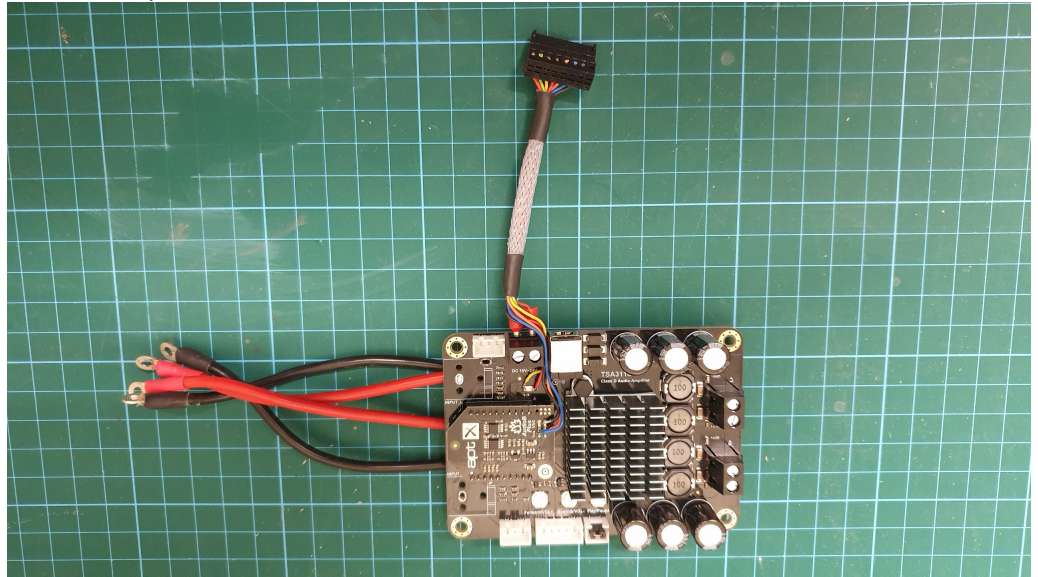
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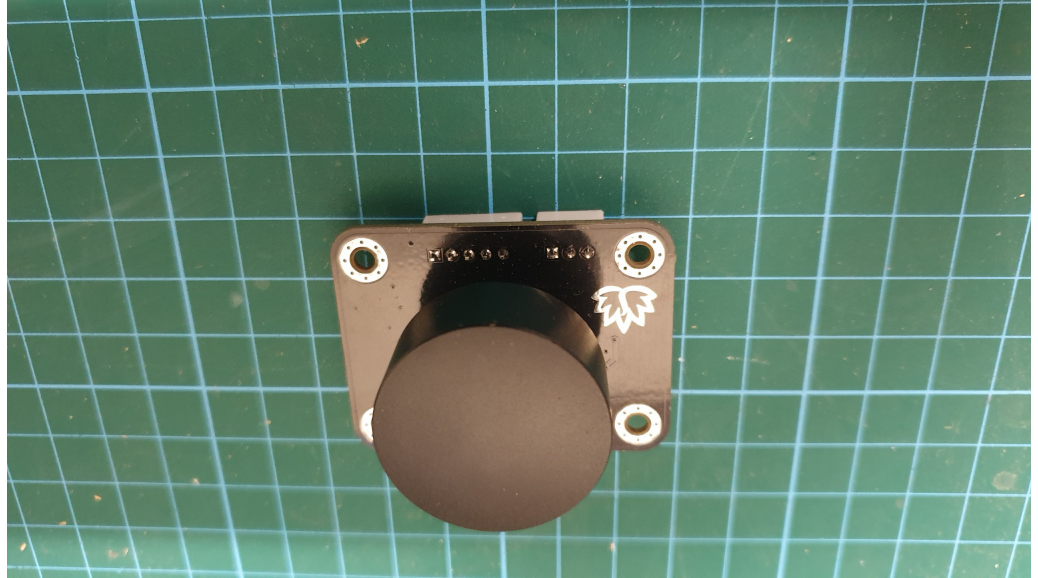
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Bluetooth amp



Volume control



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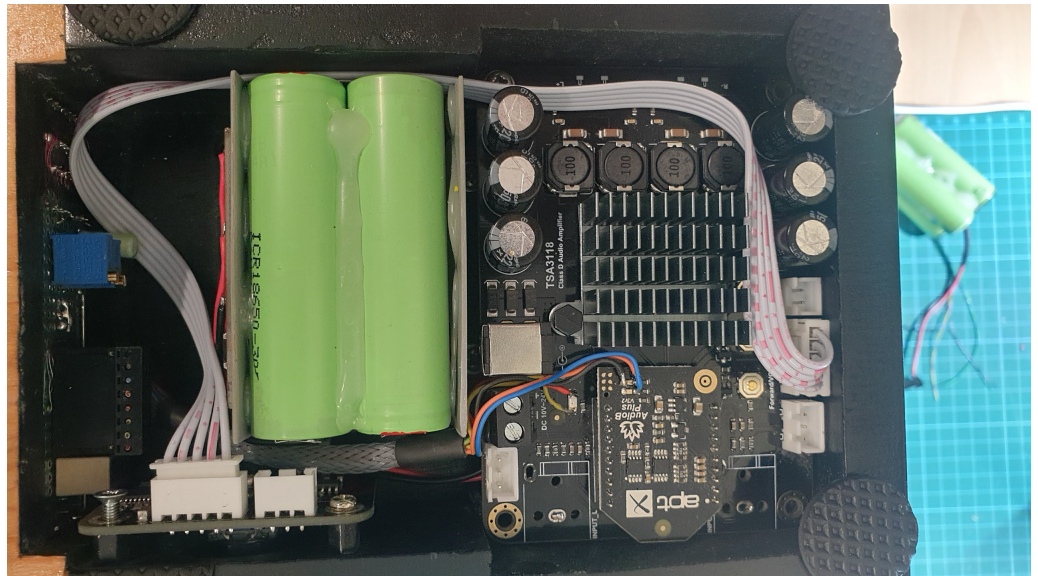
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Today, 06:37 AM

#21

The finished base with all the parts fitted - a bit tight!



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Today, 06:41 AM

#22

Schematic of complete speakers.

[TWF 6 speaker schematics.pdf](#)

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Today, 07:06 AM

#23

The finished speakers, taking pride of place on my desk.



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