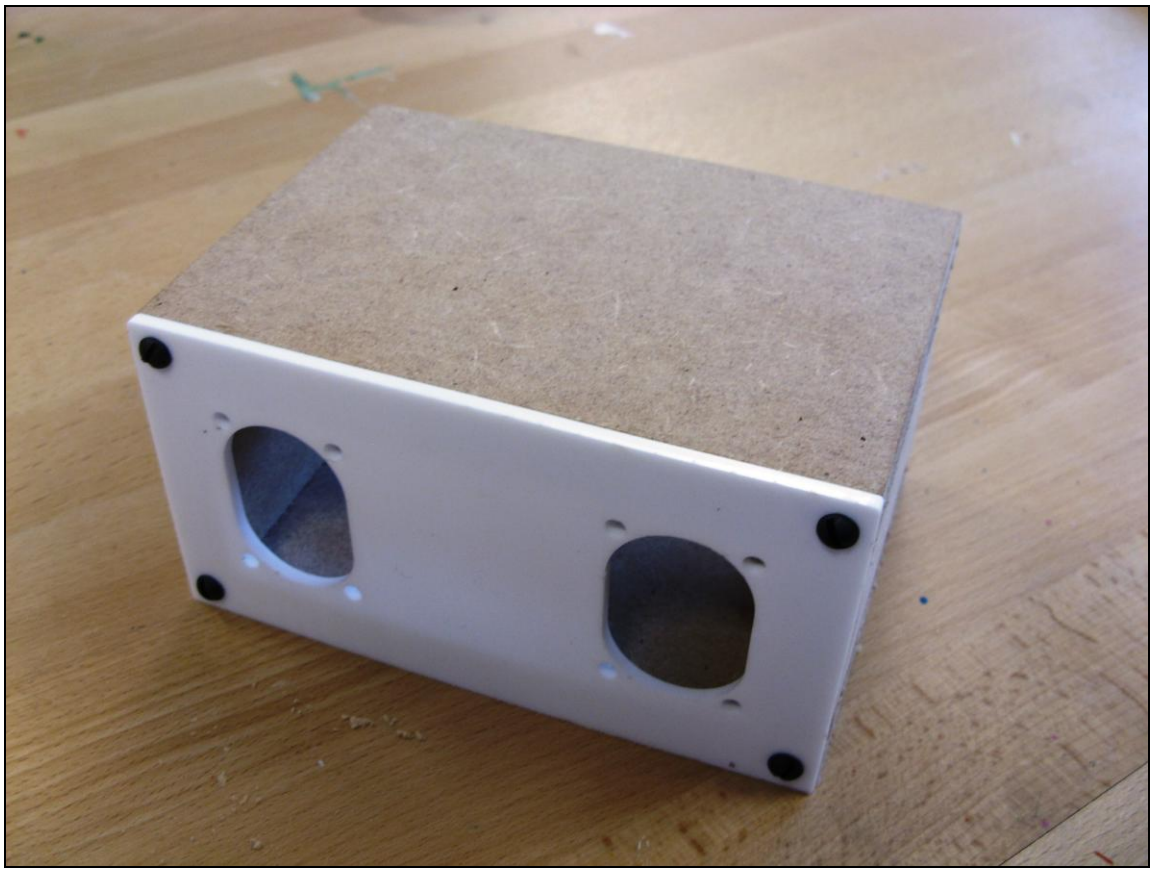
Case Design RKAmp PCBs

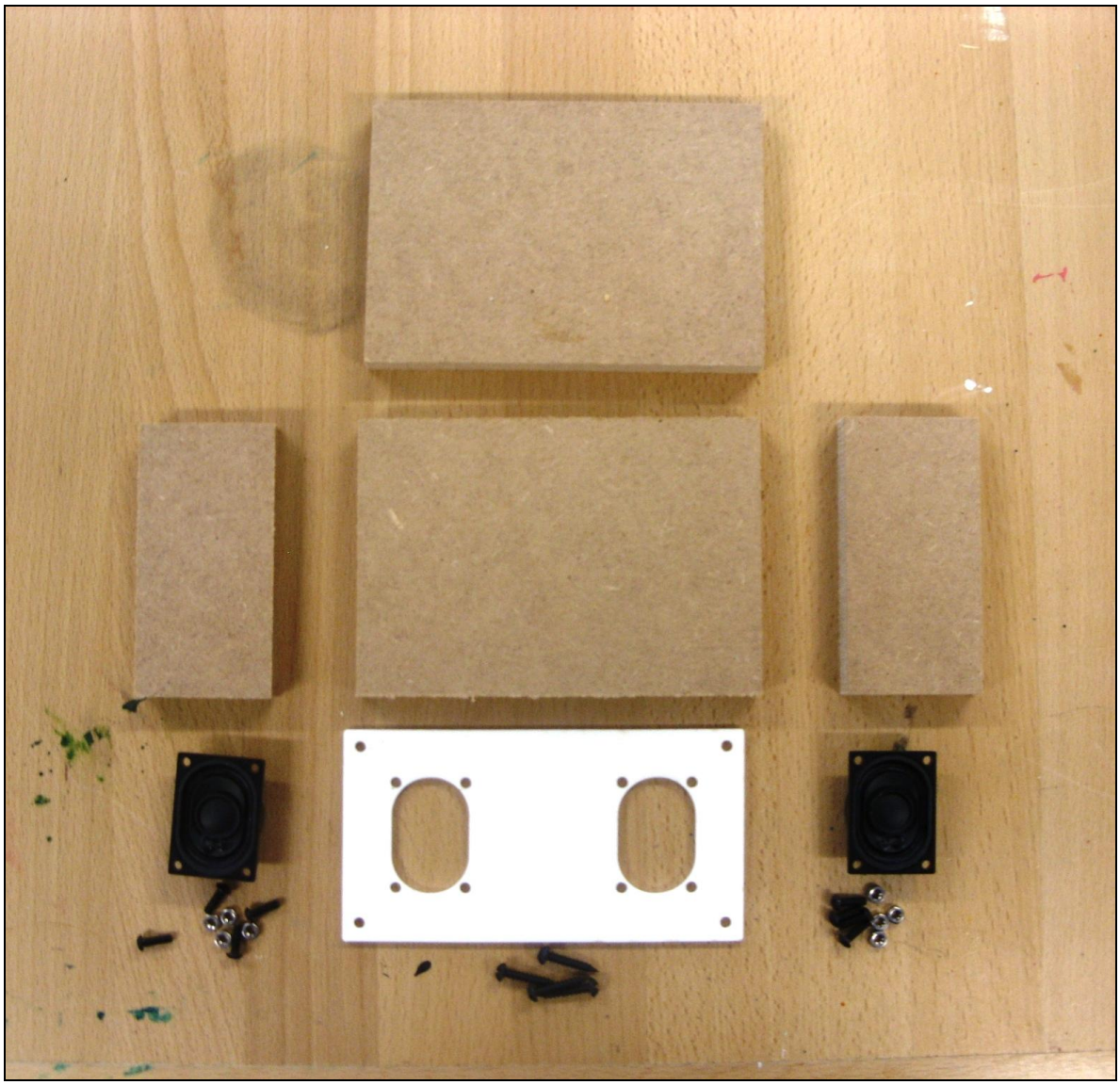
There are lots of different ways that you can construct a case for this project but a very simple and effective way is to make an MDF box with a laser cut front to house the speakers.

Below is an example,



This example is fantastic for the RKAmp1 project kit.

The case was constructed using the following pieces,



Parts List

2 pieces of 12mm MDF
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1 laser cut acrylic speaker front (DXF file available from us)
Wood screws to attached the speaker front to the case
Nuts and bolts to attach the speakers to the acrylic speaker front

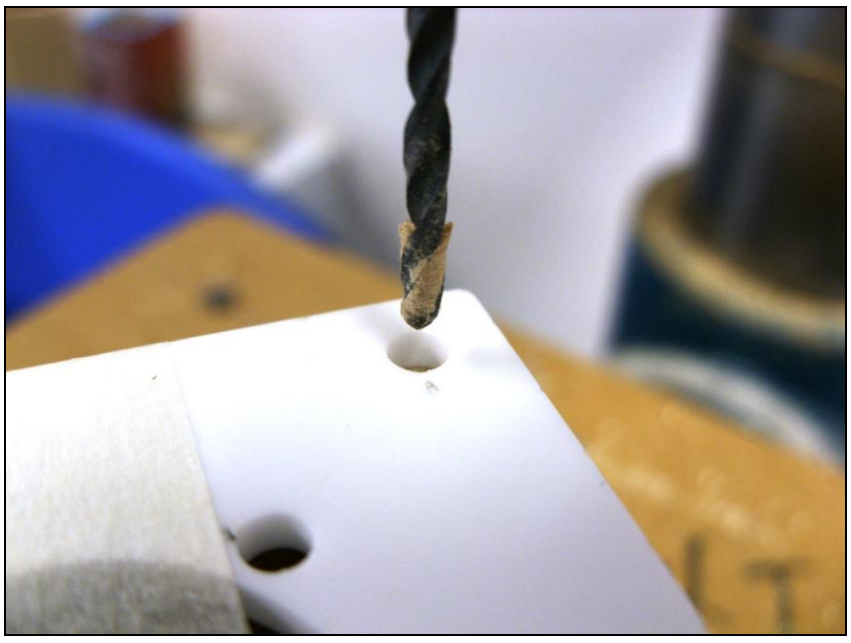
The speakers used are 2watt laptop speakers available from Rapid.

Method

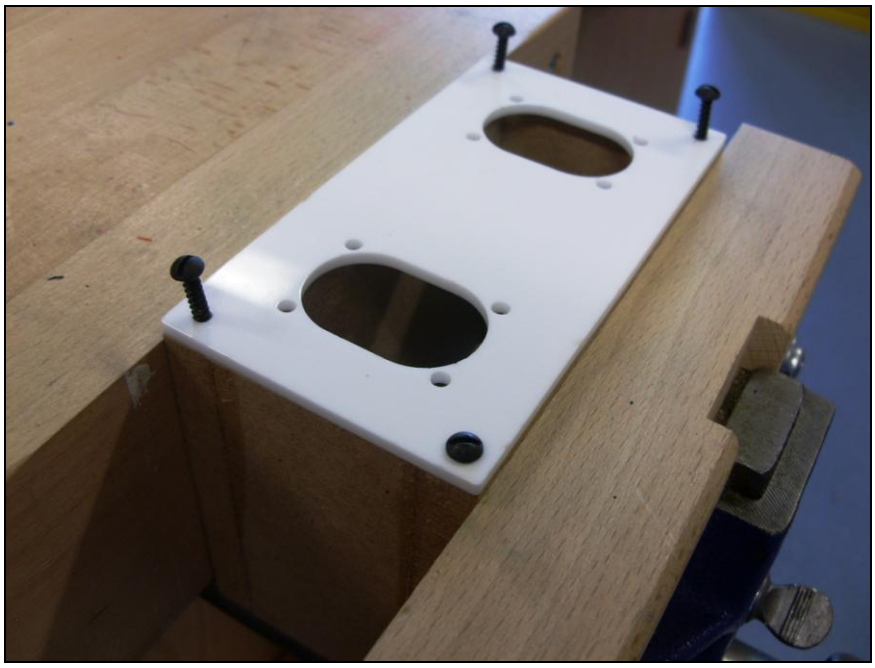
1. Glue the MDF pieces together

Use PVA glue and ensure the box is square and all faces are flush. If a vice is available secure the box on the vice while the glue dries, if no vice is available the box may be secured by weighing it down. The acrylic front has been held securely in position using masking tape.

2. Drill pilot holes for the acrylic front, vacuum the holes after drilling

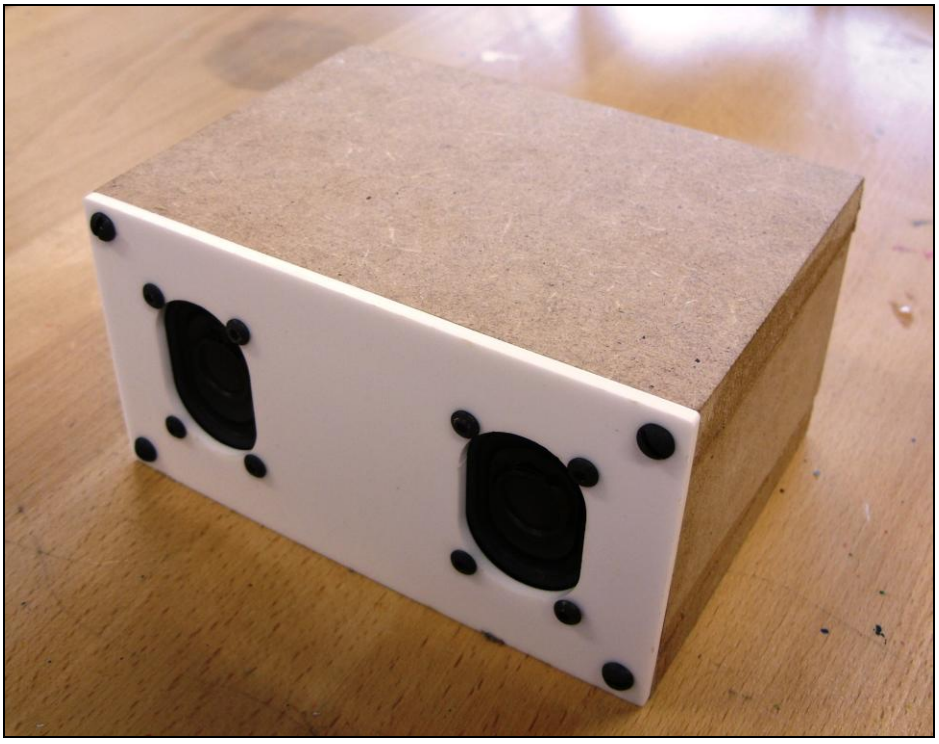


3. Attach the acrylic front with wood screws, the vice was used to help prevent the MDF splitting.

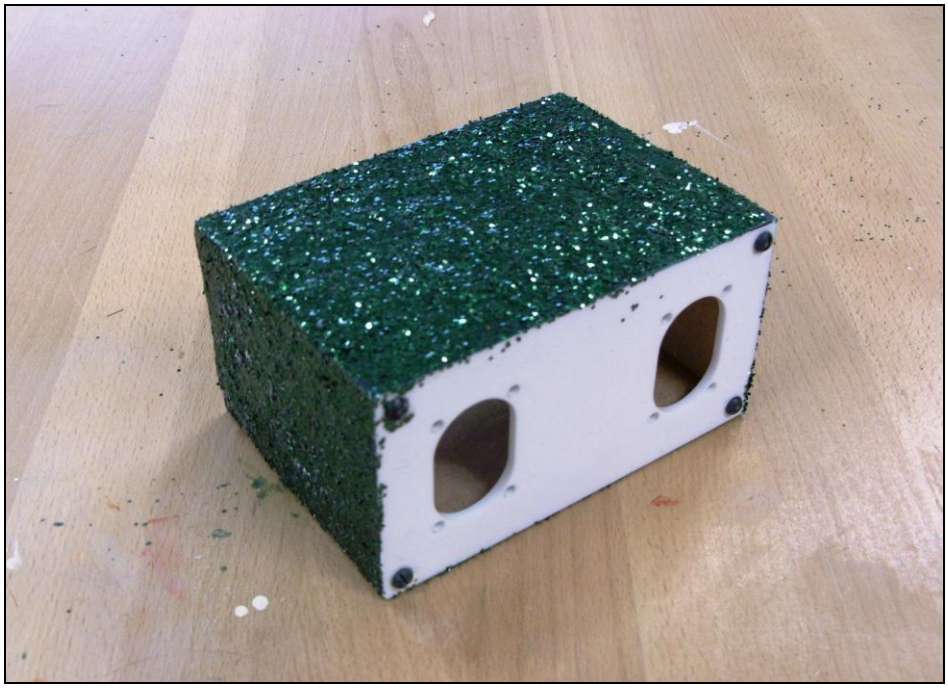


4. Sand the case to remove any imperfections and to give a high quality finish.

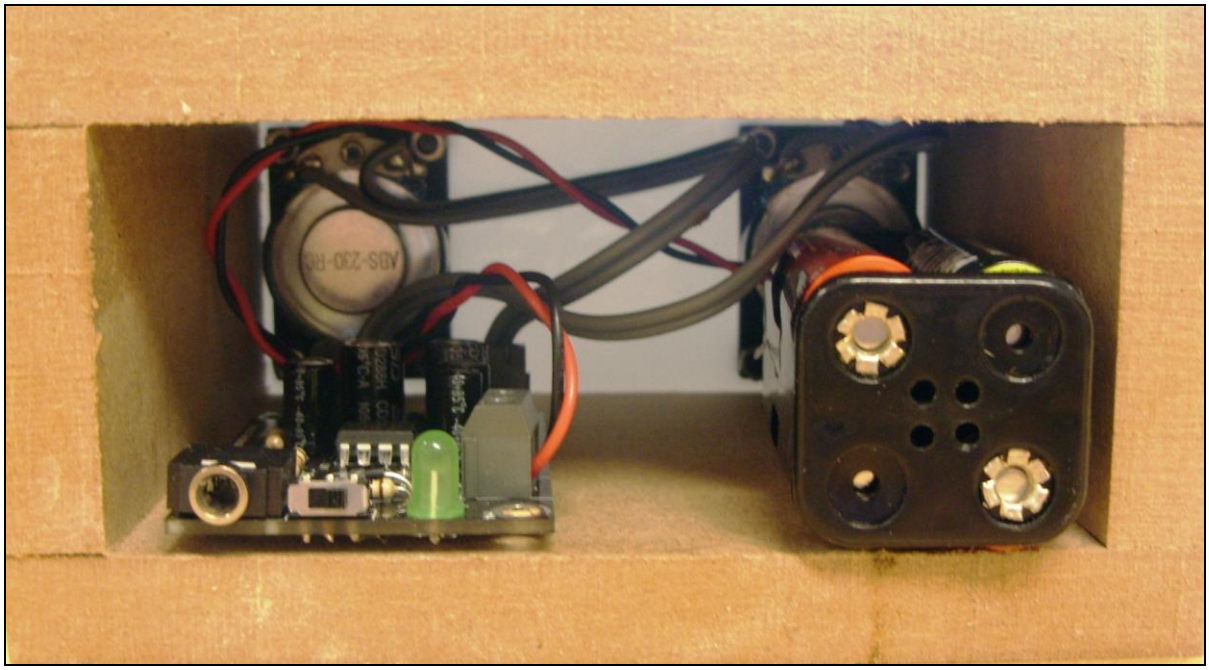
5. Attach the speakers



6. Decorate the case, this case has been covered with PVA glue and green glitter, secure the glitter with a further coating of PVA glue



7. Attach the speaker cables and power supply to the RKAmp PCB. This speaker does not have an acrylic back and I feel the sound quality is far better without a back, this is just a personal opinion and of course a back can be added.



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