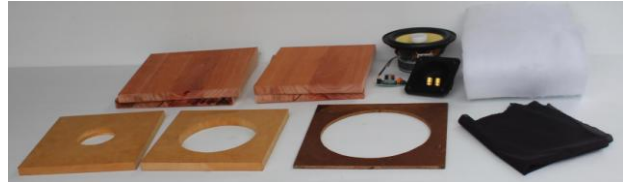


ASSEMBLY INSTRUCTIONS

Decibel OD11 loudspeaker kits

Kit contents:

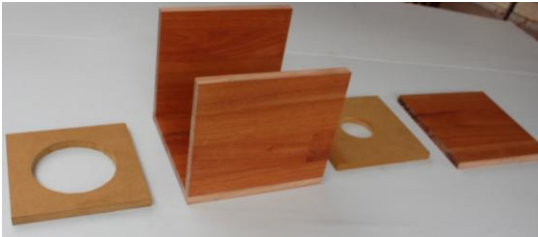


- 8 precision cut 18mm solid timber panels
- 4 x 18mm MDF top and bottom panels
- 2 x grille frames
- 2 pieces grille cloth
- 2 gold plated speaker terminal blocks
- 16 black Philips head screws
- Acoustic "wool"
- 2 x 6.5" co-axial drivers with crossover
- 8 x rubber feet + 8 screws



Tools Required:

- PVA wood glue
- Clamps or weights
- Philips head screwdriver
- 80 and 180 grade abrasive paper (power orbital sander makes it easier)
- Damp rags to clean up excess glue
- Hand or power drill with a 2mm drill bit for the screw holes

Procedure:

1. Firstly check that you have all the components as listed above. Then have a read of all the instructions below so you have an idea of the sequence to follow.
2. Lay out the panels so that you understand how they fit together. The larger timber pieces are the front and back. The smaller ones are the sides and will be glued between the front and back. Lay the back flat on the table when gluing together. Make sure the grain is running from top to bottom. Inspect the pieces on both sides and choose the faces that you think are the best to face outwards. The MDF pieces with the large hole are the top. The ones with the smaller hole are the bottoms.
3. Put all the panels into their positions to confirm that they fit together properly.
4. Now spread a thin layer of glue on three sides of the top and bottom and position them on the back. They should be about 8mm in from the edge of the back panel.
5. Next spread a thin layer of glue onto the bottom edge of the two side panels and stand them onto the back panel and against the top and bottom. At this stage the glue will not have set so you will be able to slide them into position so that all the edges line up. You'll finish up with a box

without its top, ready for the front panel to be fitted. Once you are sure that all the edges line up spread glue thinly onto the top edges of the two sides and top and bottom as in the photo.



6. Now you can position the front panel on top of the box. Once again make sure all the edges line up and slide them if necessary.

7. You can use weights or clamps to hold everything steady while the glue dries.

8. Once the glue has set, apply a bead of glue along each of the four junctions of the top and bottom to the front and back and allow to dry. It's best to stand the cabinets upright to do this. You'll need to let the glue dry on the top before turning the cabinet over and doing the bottom.

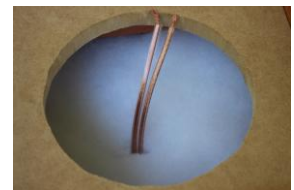


9. Next step while the bottom is facing up and the glue is drying is to fit the input terminal. It doesn't matter much what the orientation is but I usually have the terminal posts closest to the back of the cabinet. Put the terminal block into position and drill four pilot holes into the MDF through the holes in the terminal block. Fix with the four screws provided.



10. While upside down you can fit the four rubber feet into the corners with the screws provided. You'll need to drill pilot holes for each of those also.

11. Now turn the cabinets over. You'll see the back of the terminal block at the bottom with its two wires. You need to cut the piece of acoustic wool into three equal pieces. Then push a knife through the centre of each piece so you can thread the wires through it as you push it into the cabinet. You'll finish up with a situation as in the photo.



12. Now attach the wires to the spring terminals on the crossover. Make sure the wire with the black stripe goes into the black spring terminal.



13. Push the crossover to one side and sit the driver into the hole. Drill pilot holes and fix the driver with the four screws provided. Push the tweeter towards one of the front corners. The tweeter on the other cabinet should be angled towards the other front corner. So you'll finish up with the speaker that is going to be on the left side with its tweeter facing in towards the centre of the listening area, and vice versa.



14. Lay the piece of grille cloth on a flat surface and place the grille frame on top of it. Use a stapler to fix the cloth to the frame. The material is slightly stretchy so pull it to eliminate any wrinkles. Pay particular attention to the corners, folding the multiple layers to be as flat as possible. The grilles are held gently in place with Velcro dots.



15. At this point your speaker enclosure is finished except for the fact that there are two raw timber edges on each side. The faces are coated with a thin layer of hardwax oil and I recommend sanding that off so that you finish up with bare timber all over. I applied three coats of satin enamel to the prototypes which gave a very nice finish.



16. All you need to do now is hook them up and enjoy your music. Amplifiers from 10 watts upwards are suitable.