



HiVi DIY3.1-A Speaker Kit Manual

Preface

Thanks for purchasing this DIY kit! We hope you have a lot of fun building and listening.

Please read the manuals carefully first. If you ever have any problems, feel free to email us at support@hivi.com. There is also a great community of DIY builders at www.reddit.com/r/diyaudio/.

If you're ever looking for completely built speakers please check out our website at www.swanspeakers.com.

You can also find many of our products on Amazon.com, including our award winning M200MKIII audiophile bookshelf speakers, and our warm sounding M50W full wood 2.1 surround sound system.

Happy Listening! HiVi Acoustics & Swan Speakers.

Warning: Keep safe when making this kit! Wear protective eye wear when soldering and clipping component legs.

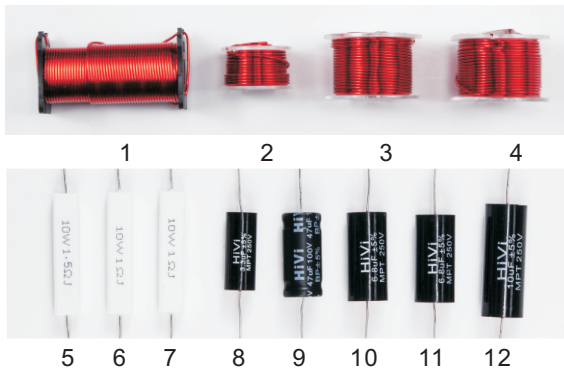
Suggested tools:

- | | | |
|--------------------|-------------------|----------------------------|
| 1) Wood clamps | 5) Scissors | 9) Cross point screwdriver |
| 2) Wood glue | 6) Solder | 10) Brush |
| 3) Diagonal pliers | 7) Soldering iron | 11) Sandpaper |
| 4) Hammer | 8) Allen wrench | |

I、Package contents

Note: Crossover components may be substituted with parts of equal or higher quality depending on stock.

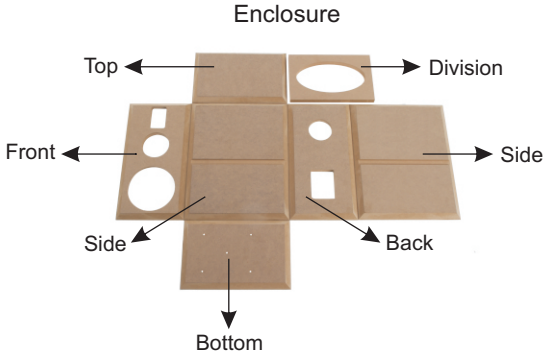
Components:



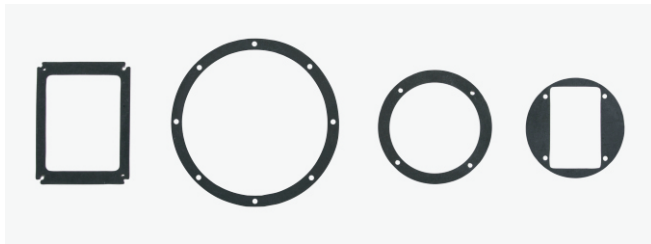
- | | | |
|----------------------------|-------------------------|--------------------------|
| 1) 1.5mH air inductor (L4) | 5) 1.5Ohm resistor (R1) | 9) 47uF capacitor (C5) |
| 2) 0.1mH air inductor (L1) | 6) 10hm resistor (R2) | 10) 6.8uF capacitor (C2) |
| 3) 0.5mH air inductor (L3) | 7) 10hm resistor (R3) | 11) 6.8uF capacitor (C3) |
| 4) 0.6mH air inductor (L2) | 8) 3.3uF capacitor (C1) | 12) 10uF capacitor (C4) |



- | |
|---|
| 13) HiVi RT 1.3-B isodynamic ribbon tweeter |
| 14) HiVi DMN-B dome midrange driver |
| 15) HiVi L6-4R woofer |
| 16) Vent Tube |



17) Cabinet front (x2), Back (x2) Bottom (x2), Side (x4), Division (x2)



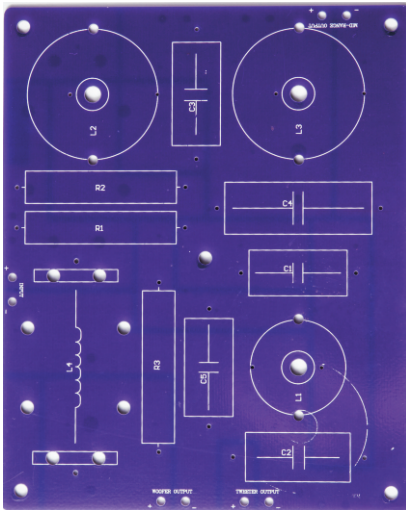
19) Cushions for drivers and terminal box



21) Screws

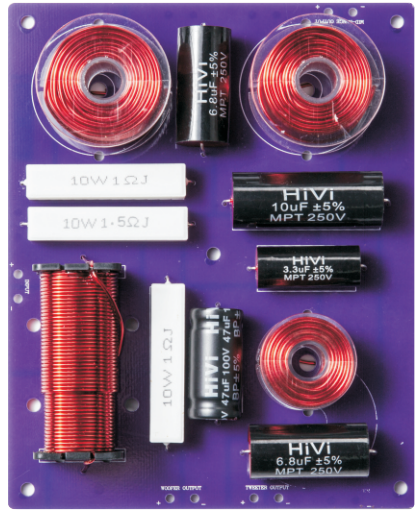
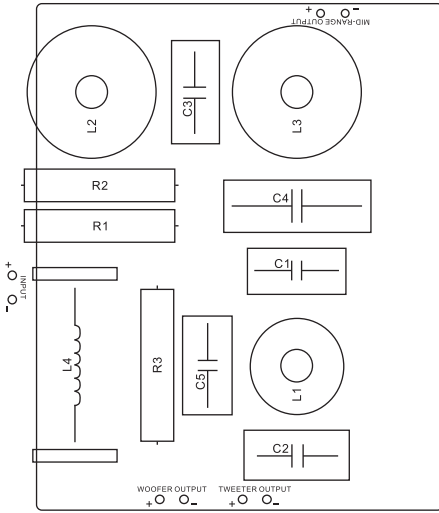
- A. Screws for woofer 16 PCS
- B. Screws for midrange driver and terminal box 16 PCS
- C. Screws for tweeter 8 PCS
- D. Screws for crossover 10 PCS

- E. Female threads 8 PCS
- F. Male threads 8 PCS
- G. Retainers 10 PCS
- H. Holding pegs 10 PCS

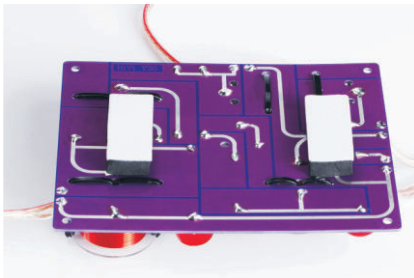


- 22) PCB(Printed Circuit Board)
- 23) Veneer surface
- 24) Terminal box
- 25) Cotton acoustic stuffing
- 26) Speaker wire
- 27) Rubber feet 8 PCS
- 28) Swan tape
- 29) Double sided foam tape 4 PCS
- 30) Swan logo and label

1. Arrange the components as illustrated in the figure below. With a soldering iron, apply solder to the connections between the components and the board. Remove the excess components legs and secure the inductors with cable ties. **Note:** Remove the coating on either end of the inductors to ensure good contact. And apply glue to all the contact surfaces between the components and PCB to ensure steadiness.



2. Cut 3 lengths of 2-conductor speaker wire, slightly longer than the distance from the crossover to the corresponding speaker openings. Solder them respectively at the outputs of the crossover. Cut one length of 2-conductor speaker wire and weld it at the input of the crossover. Make sure the polarity is correct. Generally, the red wire is positive. Paste the double sided foam tape at the back side of the crossover to support the crossover.

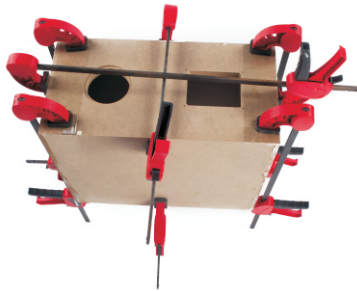


III、Enclosure Assembly

1. Set the enclosure parts out on a flat level surface. Apply some wood glue to the locating groove in the side panel and install the division panel into the groove. Then apply glue to all the contact surfaces between the panels. And place all the other panels in place.



2. Apply clamps to the enclosure. Wipe away any glue squeeze-out on the outside of the enclosure. Allow to dry according to the glue manufacturer's recommendation.

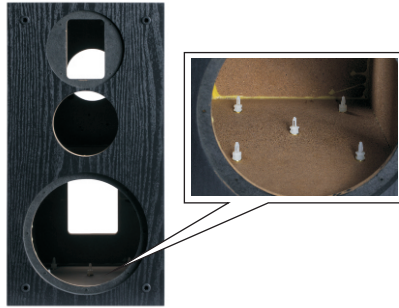


3. Once the glue is dry, remove the clamps. Sandpaper the panels smooth before you finish them. Apply a thin layer of glue to wood veneer and paste it on the enclosure. Press hard and evenly to make sure the veneer is flat and smooth. A piece of wrung hot wet cloth is recommended here to help make the veneer soft enough to be pasted evenly.

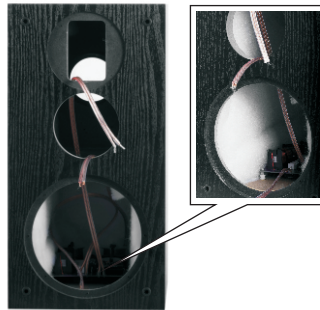
Note: In case you don't like the finish provided, you can finish enclosure to your liking. Finishing is not only used to beautify your speaker but also keep it from damping and prolong its life.



4. When the glue is dry, knock the 5 retainers into the holes in the bottom panel. And then turn the 5 holding pegs onto them or just knock the 5 screws into the retainers. Install 4 female threads into the holes in front panel.



5. Insert crossover through woofer hole and install it onto the holding pegs on the bottom panel. Have the wires outside through the corresponding speaker openings to avoid confusion and make it easier for driver connection. Add some cotton acoustic stuffing into the enclosure and press it hard against the side panels.



6. Apply some glue to the tube and install it into the tube hole.



7. There are two sets of lugs on one side of the terminal box and two sets of connected terminals on the other. Weld the input wire on crossover to either set of lugs through the terminal box hole. Again the polarity must be correct. (red = positive) Make sure that there is no short circuit or false welding. Then screw the terminal box (gasket) on the cabinet with terminals upward.



8. Weld the tweeter wires to the tweeter terminals and set tweeter with its cushion in place. Press them into opening and secure them with screws. Weld the midrange wires to the midrange terminals and set midrange driver with its cushion in place. Press them into opening and fix them with screws. Weld the woofer wires to the bass terminals and set woofer and its cushion in place. Press them into opening and secure them with screws. While doing these, make sure the polarity is correct. The terminal painted red is positive.



9. Apply a layer of glue to the frame of the grill and tuck the grill fabric into the groove in the frame cut the excess fabric. Knock the 4 male threads into the holes in the frame. If you wish, attach the logo on the bottom edge in the circle slot.



10. Paste the rubber feet to the bottom panel and the label to the blank place between the tube and terminal box.



11. You are now ready to enjoy your speakers.





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