Dayton Audio 18" Dual Passive Radiator Subwoofer Kit

Thank you for purchasing the Passive Dayton Audio Reference 18" With Dual Passive Radiator Subwoofer Kit. This subwoofer kit was precision cut using CNC machinery for the best possible fit and finish. With a little time and patience, your finished product will provide years of enjoyment. Please follow the following instructions for the best possible results.

Suggested tools and consumables:

Wood glue
Wood clamps (you can never have too many of these)
Sanding block and/or electric finishing sander
#8 x 1" wood screws (for driver and passive radiators)
Scissors
Terminal (binding posts, terminal cup, SpeakOn, etc…)
Rags or paper towels
Drill
5/64" drill bit
Utility knife
Speaker Wire

Package contents:

First, empty the contents of the package and review parts to ensure everything has been included and is in good condition. If any parts are missing or damaged please contact our customer service department at 1-800-338-0531.

Components:

A B C

A) Dayton Audio RSS460HO-4 18" Reference HO Subwoofer 4 ohm
B) 2 x Dayton Audio RSS460-PR 18" Aluminum Cone Passive Radiator
C) 3 x Sonic Barrier 1/2" Acoustic Sound Damping Foam with PSA 18" x 24"

D

D) Knock Down Enclosure

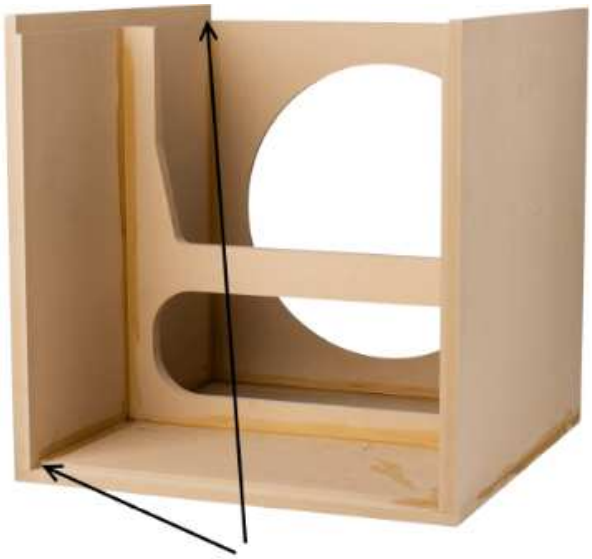
Enclosure Assembly:

1) First, set the enclosure parts out on a flat level surface and ensure that all pieces are free of dust and debris.

2) With the back panel lying flat, glue all mating surfaces of one side panel and the top panel and secure them to the back panel with clamps so that even pressure is applied to all glued surfaces. Using a damp rag or paper towel wipe away any glue squeeze-out on the outside of the enclosure and inside the rabbeted edges (excess glue on the inside is fine). Allow to dry according to the glue manufacturer's recommendations and remove clamps.

Wipe away excess glue from rabbeted edges

3) Next, glue all mating surfaces of the center brace and the bottom panel and secure them in place with clamps so that even pressure is applied to all glued surfaces. Using a damp rag or paper towel, wipe away any glue squeeze-out on the outside of the enclosure and inside the rabbeted edges (excess glue on the inside is fine). Allow to dry according to the glue manufacturer's recommendations and remove clamps.



Wipe away any excess glue from rabbeted edge

4) Then apply a thin layer of glue to all mating surfaces of the final side and front panel and secure them in place with clamps so that even pressure is applied to all glued surfaces. Using a damp rag or paper towel, wipe away any glue squeeze-out on the outside of the enclosure (excess glue on the inside is fine). Allow to dry according to the glue manufacturer's recommendations and remove clamps.

5) Finally, apply a thin layer of glue to the front panel of the enclosure and set the front baffle in place. While ensuring all edges are even and square, position clamps to apply even pressure to the baffle. Using a damp rag or paper towel, wipe away any glue

squeeze-out on the outside of the enclosure and inside the driver cutout. At this time double check that all edges are even and square (this cannot be adjusted once the glue is dry). Allow to dry according to the glue manufacturer's recommendations and remove clamps.

6) Sand and finish enclosure to your liking and install your terminal of choice (binding posts, SpeakOn, terminal cup, etc…). See our web page for examples.

Acoustic foam application:

7) Using a vacuum, remove any dust and debris from inside the enclosure ensuring you have a smooth and clean surface to adhere the Sonic Barrier acoustic foam.

8) Using scissors or a sharp knife, cut the Sonic Barrier acoustic foam into 6 pieces: (2) 8" x 18" and (4) 8" x 17.5"

9) Starting with the 8" x 18" pieces, peel off the adhesive backing and apply to the back panel on both sides of the center brace. Firmly press the foam sheets into place with your fingers starting at the middle of the panel and working towards the outside edges to force out any trapped air between the foam and enclosure walls.
Note: Do not fold the Sonic barrier sheets once the backing has been removed, the adhesive is very aggressive and cannot be separated if it adheres to itself.

10) Remove the adhesive backing from the 8" x 17.5" pieces, apply to the top and bottom panel on both sides of the amplifier cutout. Firmly press the foam sheets into place with

your fingers starting at the middle of the panel and working towards the outside edges to force out any trapped air between the foam and enclosure walls.

Final Assembly:

11) Prepare the Dayton Audio RSS460-PR 18" passive radiators by attaching all 8 included 75 gram disk weights to the threaded post on the back of each passive radiator. Secure the weights in place on each passive radiator using the included lock nuts with nylon insert.

12) Set one Dayton Audio RSS460-PR 18" passive radiator into the opening on one side for the enclosure. Using 8 wood screws securely fasten the passive radiator into place (we recommend pre-drilling the screw holes with a 5/64" bit). Tighten each screw just until tight being careful not to strip out the holes. Repeat on the opposite side for the second passive radiator.
Note: A power drill is not recommended for tightening screws in MDF.

13) Connect the red and black wires from your terminal of choice (binding posts, SpeakOn, terminal cup, etc…) directly to the corresponding red and black spring loaded terminals on the Dayton Audio RSS460HO-4 18" driver.

14) Set the Dayton Audio RSS460HO-4 18" driver in the opening in the front of the enclosure. Make sure the wire is routed so that it will not come into contact with any moving part of the driver or passive radiators. Using 8 wood screws securely fasten the driver into place (we recommend pre-drilling the screw holes with a 5/64" bit). Tighten each screw just until tight being careful not to strip out the holes.
Note: A power drill is not recommended for tightening screws in MDF.

15) You are now ready to enjoy your finished Passive Dayton Audio Reference 18" With Dual Passive Radiator Subwoofer Kit. (15" version shown)

Additional parts used:

081-422	Parts Express #8 x 3/4" Deep Thread Pan Head Screws Black 100 Pcs.
081-425	Parts Express #8 x 1" Deep Thread Pan Head Screws Black 100 Pcs.
092-054	Neutrik NL4MPR Speakon Connector 4 Pole Round Chassis Mount
081-3220	#4 x 5/8" Flat Head Wood Screw Zinc
095-808	Gold 12-10 AWG 0.187" Female Disconnect 5 Pair
100-065	JSC Wire 12 AWG Red/Black Zip Power Speaker Wire