BOSS Audio Systems
3451 Lunar Court • Oxnard, CA 93030
www.bossaudio.com
805-751-4853 Customer Service
Tech Support: www.bossaudio.com/support

0321

USER'S MANUAL

MR652C

6.5" (165 mm) 2-WAY COMPONENT
MARINE LOUDSPEAKERS

MR752C

7.5" (191 mm) 2-WAY COMPONENT
MARINE LOUDSPEAKERS

MR652C *6.5” (165mm) 2-Way Component Marine Loudspeakers*
MR752C *7.5” (191mm) 2-Way Component Marine Loudspeakers*

Congratulations on your purchase of a BOSS AUDIO SYSTEMS Marine Component Speaker System.

It has been engineered to bring you the highest level of performance. Its quality will afford you years of listening pleasure.

Thank you for making BOSS AUDIO SYSTEMS your choice for marine audio entertainment!

What is included?

Before you begin installation please check that your system contains the following contents:

- **(2) Marine 2-Way Speakers**
- **(2) 13.12ft (4M) Speaker Cables**
- **(2) 0.49ft (0.15M) Red Wires**
- **(2) 0.49ft (0.15M) Black Wires**
- **(2) Surface Mount Plastic Housings for Tweeters**
- **(1) Stainless Steel Screws Bag**

Specifications

	MR652C	MR752C
Tweeter Type	1” PEI Dome	1” PEI Dome
Max Power (watts)	350	400
Efficiency (1 W/1 M)	90	92
Frequency Response	60-20kHz	40-20kHz
Min. Mounting Depth Allowing Clearance in (mm)	27/16” (62mm)	211/16” (68mm)
Impedance	4 ohm	4 ohm
Sealed Enclosure Volume (cu.ft)	0.43	0.71
Ported Enclosure Volume (cu.ft)	0.9	1.25
Ported diameter in (mm)	2” (50mm)	2-3/8” (60mm)
Port length in (mm)	1” (25mm)	1-3/16” (30mm)

Calculating Required Enclosure Volume

These loudspeakers will perform best if they are installed in a sealed or a ported enclosure with the appropriate interior volume. Please refer to the specifications table for the suggested volume for your speaker and application.

These volumes are provided in the specifications table are in cubic feet. In order to design your enclosure, you will first need to convert this data to cubic inches. To convert cubic feet to cubic inches, simply multiply by 1728:

Model	Sealed volume	Ported volume
MR652C	743 cu in.	1555 cu in.
MR752C	1227 cu in.	2160 cu in.

Calculating Enclosure Dimensions

Calculating the exterior cabinet dimensions requires that you first estimate height and width of the enclosure based on the available space in your boat. You then work with this estimate to determine the depth of the cabinet.

For example:

1. You want an MR652C sealed enclosure with exterior dimensions of 8” W x 10” H.
2. Subtract the cabinet material thickness (3/4” MDF x2) from the exterior width and height. This yields the interior width as 6.5" and height as 8.5".
3. Multiply (interior width) x (interior height): 6.5” x 8.5” = 55.25”.
4. Divide the recommended interior volume (743 cu. in.) by this number: 743 ÷ 55.25 = 13.45”. This reveals the interior depth required.
5. Add 1-1/2” to this dimension to calculate exterior depth: 13.45” + 1.5” = 14.95”.

In the above example we showed that one possible sealed cabinet size for MR652C is approx. 8” x 10” x 13”. We can see that if a 13” deep enclosure cannot be accommodated in your boat, it will be necessary to increase the height, width or both to come out with an enclosure of acceptable size with the appropriate interior volume.

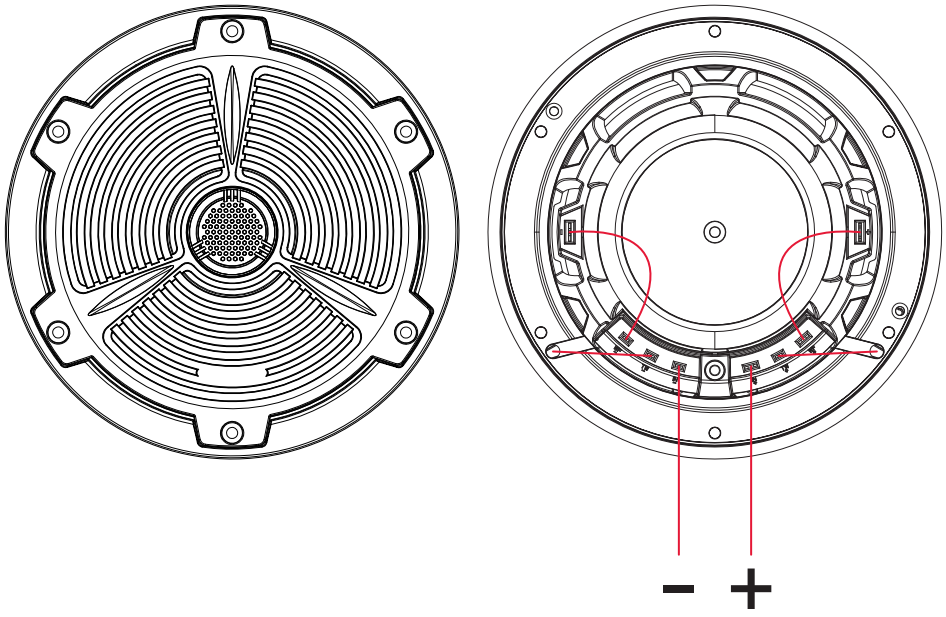
Important considerations when building an enclosure.

Be sure that the cabinet is air-tight. Joints should be glued and caulked on the interior of the joints.

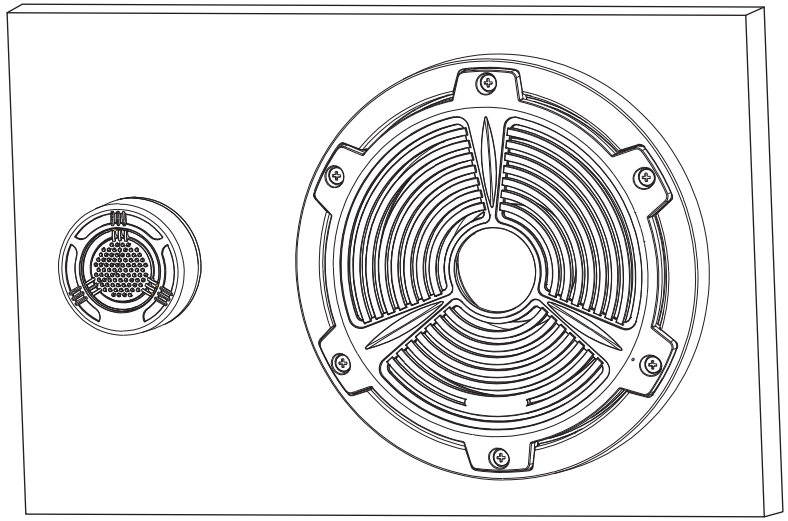
For marine cabinets which may be exposed to moisture, be sure to use an appropriate marine varnish to seal the surface of the MDF well.

Installation Options

Option A - Install As A 2-Way Coaxial Speaker. This Is How They Come Packaged, Ready to Mount.

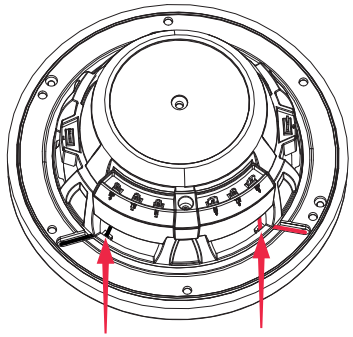


Option B – Install As A 2-Way Component Speaker. Tweeter Removed and Installed Onto A Surface.



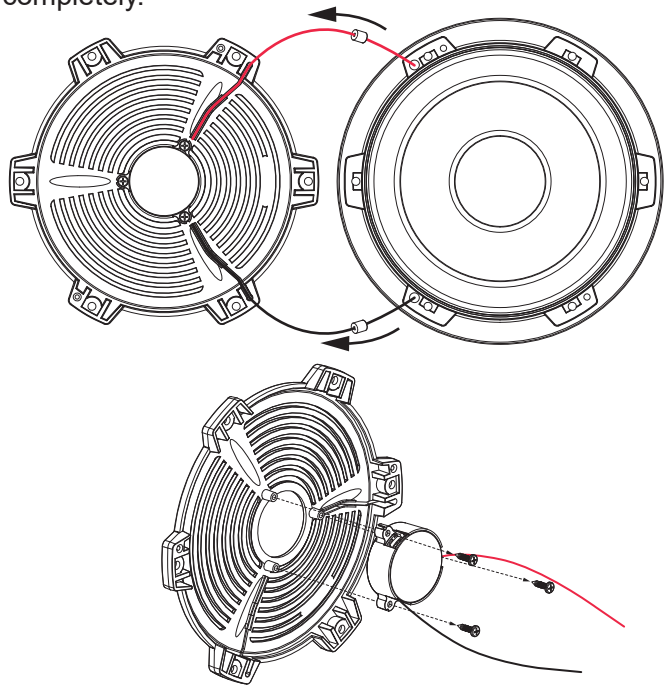
STEP1.

With the speaker facing down, gently pull the red and black tweeter wires (red arrows below) from the bottom of the speaker. Remove the wires from the groove.

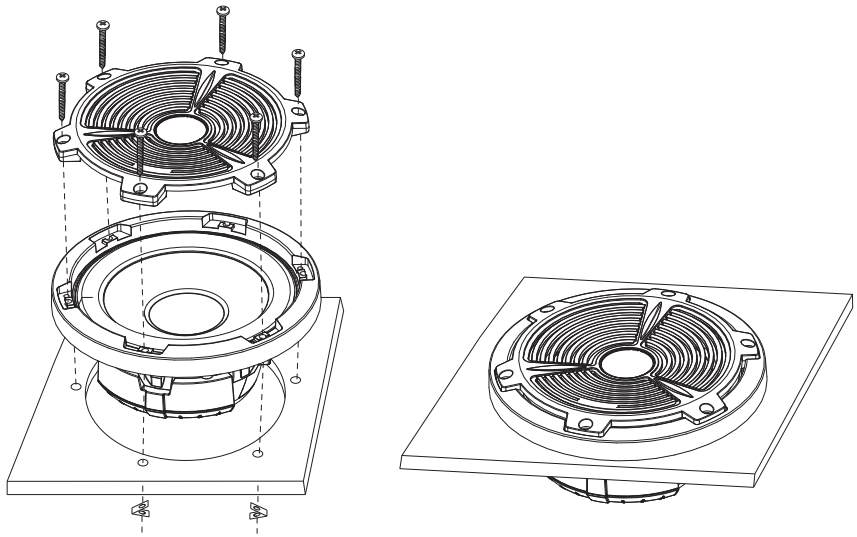


STEP2.

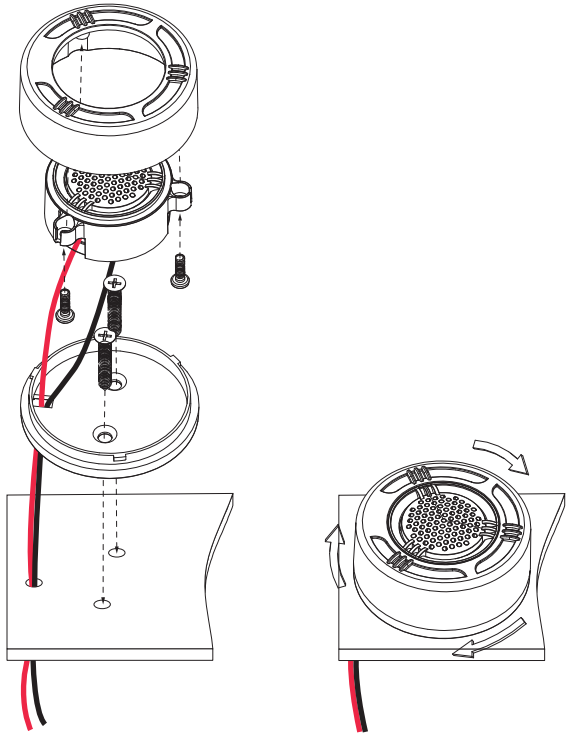
The speaker grill is removable. Pull the grill up slowly then the red and black tweeter wires will be pulled out with rubber plugs from the speaker unit. Put the grill upside down and unscrew the three screws around the tweeter cover. Pull the wires out of the grooves then the tweeter can be removed completely.



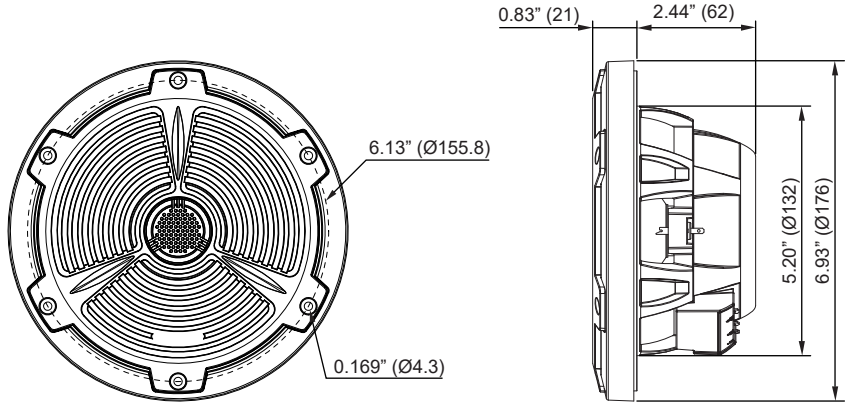
STEP3.
Place the grill back on to the speaker and fasten with the provided screws.



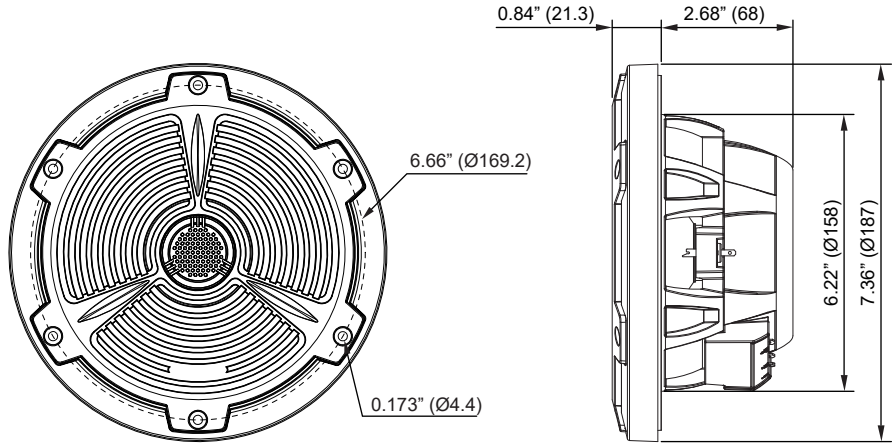
STEP4.
As shown below, surface mount the tweeter.



Speaker Dimensions



MR652C



MR752C