



BLACK R62TSM INSTALL GUIDE



**Preparation:**

**Tools For Installation**

- Pencil
- Drill
- Tape Measure
- Wire Cutter
- Phillips Screwdriver
- Utility Knife
- Safety Eye Wear
- Gloves
- Sandpaper

**Speaker Wire Guide**

- 18AWG minimum - for distances up to ..... 10 ft
- 16AWG - from ..... 10 to 50 ft
- 14AWG - from ..... 50 to 100 ft

**Considerations**

- Where is the best place to install the speakers?
- Where will the speakers sound the best?
- Separate the speakers 6 - 10 feet apart.
- If you intend to paint the grilles, do so before installation.

**SPECIFICATIONS**

Woofer	6.5" (165 mm) Graphite Cone, Rubber Surround
Tweeter	1" (25 mm) Titanium dome
Frequency Response	106 Hz-20k Hz
Power Handling	80W
Sensitivity	86 dB
Taps	8Ω,0,40W,20W,10W,5W
Impedance	8 ohms
Dimensions	12.25" X 4.1" (311.4 X 103.5mm)
Cut Out	10.49" (266.5mm)

**Installation:**

**Cut Out**

**NOTE: This is the most important part of the entire installation.** If you are not certain whether any obstructions exist behind the desired mounting area, you should start by cutting a small hole in the center of your penciled mounting hole with a drywall saw.

Trace a line using the Cut Out diameter. Cut along the traced line using a drywall saw or rotary drill. Use a piece of sandpaper to sand down the cut out edge for a smoother contour. **(See Diagram 1.)**

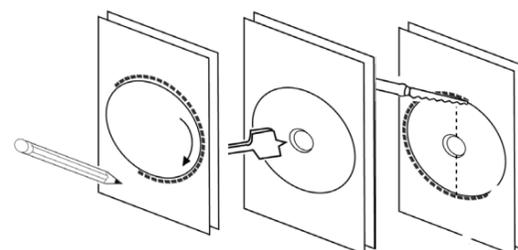


Diagram 1

**Connection**

When connecting any speakers to the amplifier or receiver, always make sure the power is off. Locate the connection terminals on the back of your receiver or amplifier. Always make sure to connect audio out from the back of your receiver or amplifier to the speakers. **(See Diagram 2.)**

**NOTE:** Not all Amplifier/Receivers can safely play more than one pair of speakers at once. Please refer to your owner's manual for impedance and wattage compatibility.

Connecting multiple speakers in a series.

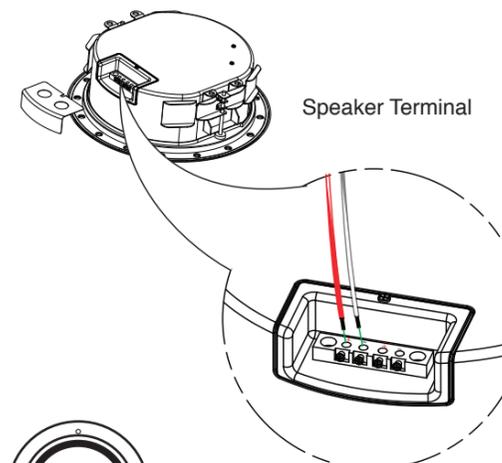
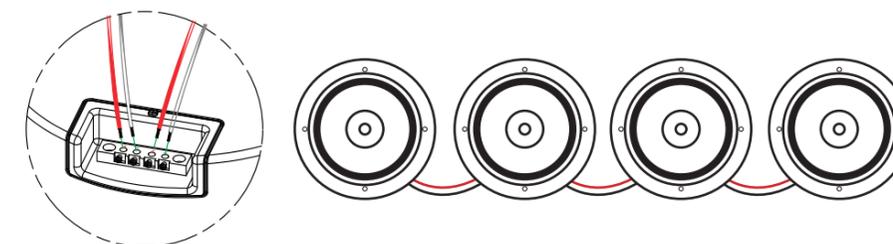


Diagram 2

**Mounting**

Tighten the mounting brackets by simply turning the screws on the front of the speaker baffle slowly clockwise. The mounting system and frame will secure the speaker to the dry-wall and hold the speaker securely in place. Finish by attaching the included magnetic grille. **(See Diagram 3.)**

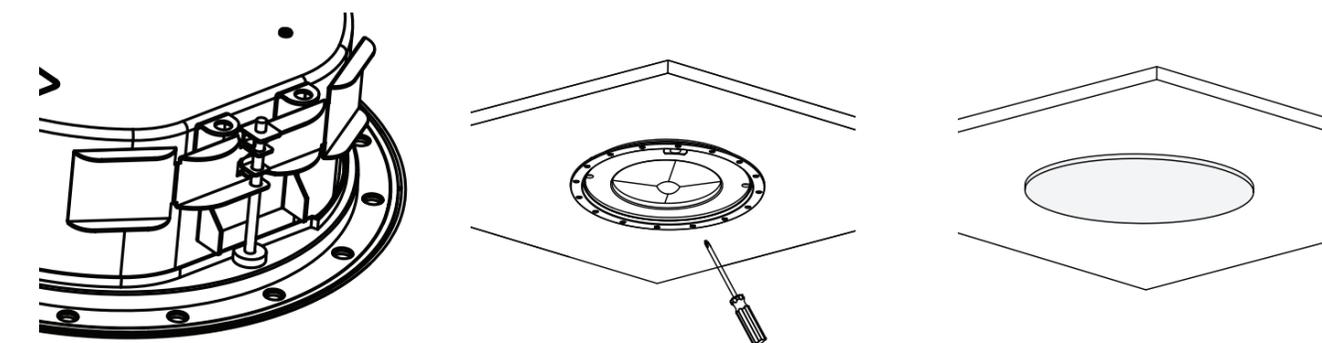


Diagram 3

## WARRANTY

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All Optimal Speaker Design speaker products have Limited Lifetime Warranty against defects in materials and workmanship. Proof of purchase must accompany all claims. During the warranty period Optimal Speaker Design will replace any defective part and correct any defect in workmanship without charge for either parts or labor. Optimal Speaker Design may replace returned speakers with a product of equal value and performance. In such cases, some modification to the mounting may be necessary and are not Optimal Speaker Designs responsibility.

For this warranty to apply, the unit must be installed and used according to its written instructions. If necessary, repairs must be performed by Optimal Speaker Design. The unit must be returned to Optimal Speaker Design at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects, nor is damaged resulting from abuse or from servicing performed by an agency or person not specifically authorized in writing by Optimal Speaker Design.

Optimal Speaker Design sells products only through authorized dealers and distributors to ensure that customers obtain proper support and service. Any Optimal Speaker Design product purchased from an unauthorized dealer or other source, including retailers, mail over dealers and on-line sellers will not be honored or serviced under existing Optimal Speaker Design warranty policy. Any sale of product by an unauthorized source or other manner not authorized by Optimal Speaker Design shall void the warranty on the applicable product.

Damage to or destruction of components due to application of excessive power voids the warranty on those parts. In these cases, repairs will be made on the basis of the retail value of the parts and labor. To return for repairs, you must email customer service at [RMA@audiogeargroup.com](mailto:RMA@audiogeargroup.com) for a Returned Merchandise Authorization (RMA) number# then the unit must be shipped to Optimal Speaker Design at the owner's expense, along with a note explaining the nature of service required. Be sure to pack the speaker(s) in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

This Warranty Does Not Cover: Damage caused by abuse, accident, misuse, negligence, or improper operation (installation) • Any products that have been altered or modified • Any product whose identifying number of decal, serial #, etc. has been altered, defaced or removed • Normal wear and maintenance.