
CM208W Series Subwoofers

User/Installer Manual

CM208W



CM208W-TB
CM208W-SR



SUPERIOR LISTENING SYSTEMS
AUDIO CLARITY REDEFINED



Introduction

Congratulations on your purchase of the CM208W series subwoofers. These subwoofers feature (2) long-throw 8” drivers capable of response down to 35Hz with a peak SPL capability of 112dB per cabinet. These subwoofers also feature a flexible input and output feature set that allows use with all of our wall and ceiling mount full range speakers. This Guide serves as an overview and provides useful hints regarding your subwoofer installation and use. Please read in its entirety before proceeding.

Safety Responsibilities and Liability

All information in this guide is meant only for the purpose of rigging using the SLS supplied hardware. All other rigging is considered part of the venue and/or end-user supplied equipment and is not addressed in this guide. SLS assumes that a working knowledge of accepted rigging practices and safety will be applied to all rigging materials and practices employed. This guide is not a comprehensive source for rigging in general. The user must assume all responsibility for the appropriate use of SLS supplied rigging hardware and follow at a minimum all applicable laws and regulations in force for each venue.

The weakest component determines the safety of the entire rigging assembly. Prior to installing, always inspect all hardware components for wear, deformations, corrosion and missing or damaged parts. Also inspect the venue attachment points for wear and confirm that the points are suitably load rated for the equipment.

No information contained in this guide is intended as a warranty on the part of SLS. Anyone using this information assumes all liability arising from its use. Product abuse, use of the product not in accordance with SLS instructions or use in an application which the product has not been designed for is not covered under any SLS warranty nor is SLS liable for any loss or damage.

Users in other countries should not assume that local regulations are based upon North American practices. Users should consult with local regulatory authorities for specific codes and/or guidelines.

Replacement Parts

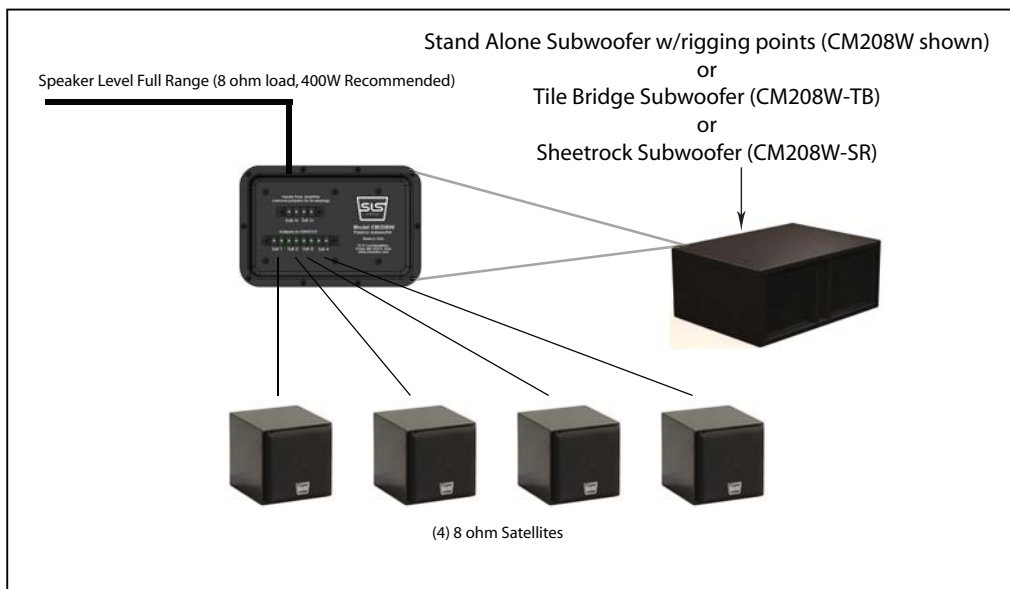
All defective components should be replaced with an SLS approved part. Contact the factory directly at (417) 883-4549 to obtain approved replacement parts. SLS is not responsible for problems caused by using non SLS supplied parts for the SLS supplied portion of the rigging.



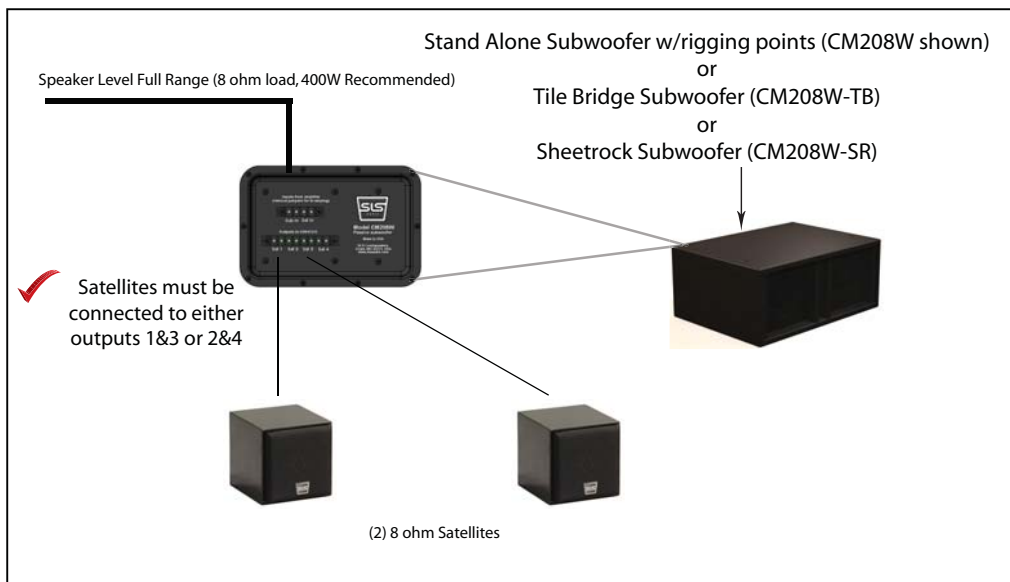
CM208W Series Wiring Schemes

The following diagrams show the different options available for incorporating the CM208W series subwoofers into your installations. The diagrams show our CM141CC surface mount speaker connected to the high-pass outputs but any 8 ohm speaker model can be used with the subwoofer. Best results will be obtained by using SLS satellites however as the internal crossover in the CM208W series subwoofers are optimized for SLS wall and ceiling speakers.

Standard Configuration with Subwoofer & 4 Satellites



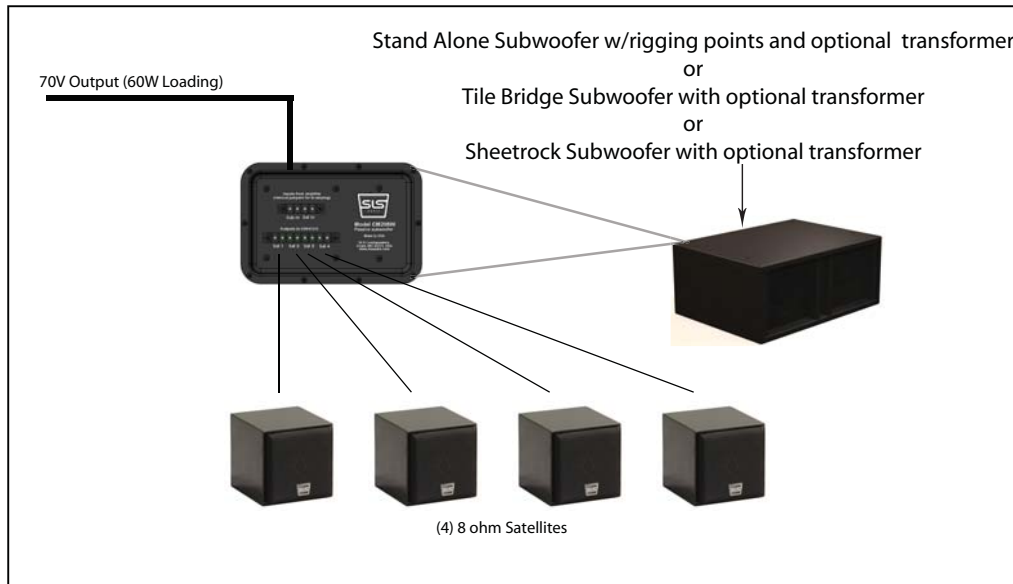
Configuration with Subwoofer & 2 Satellites



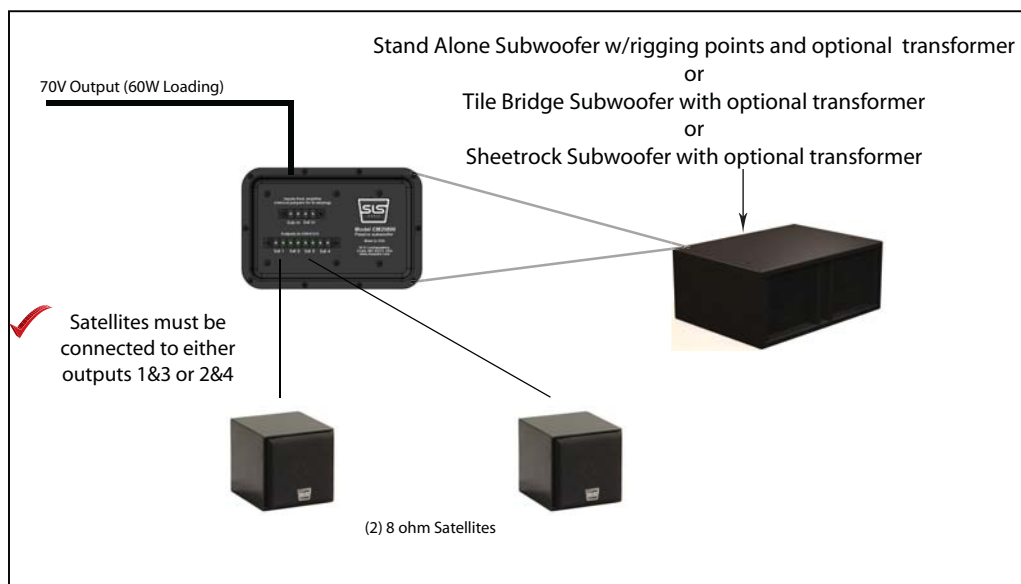


CM208W Series 70V Wiring Schemes

70V Configuration with Subwoofer & 4 Satellites (with optional internal 70V transformer)



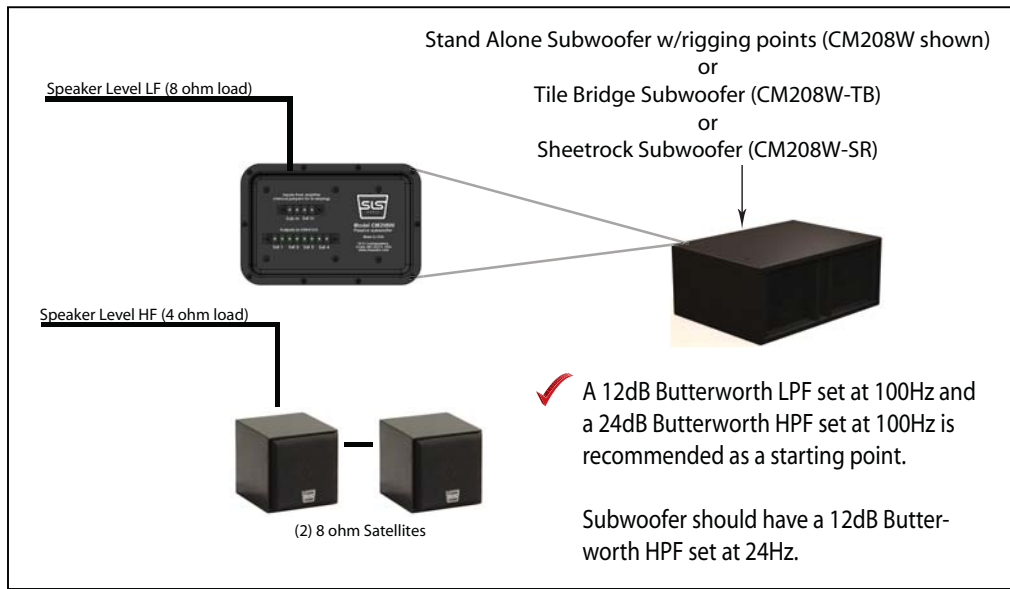
70V Configuration with Subwoofer & 2 Satellites (with optional internal 70V transformer)



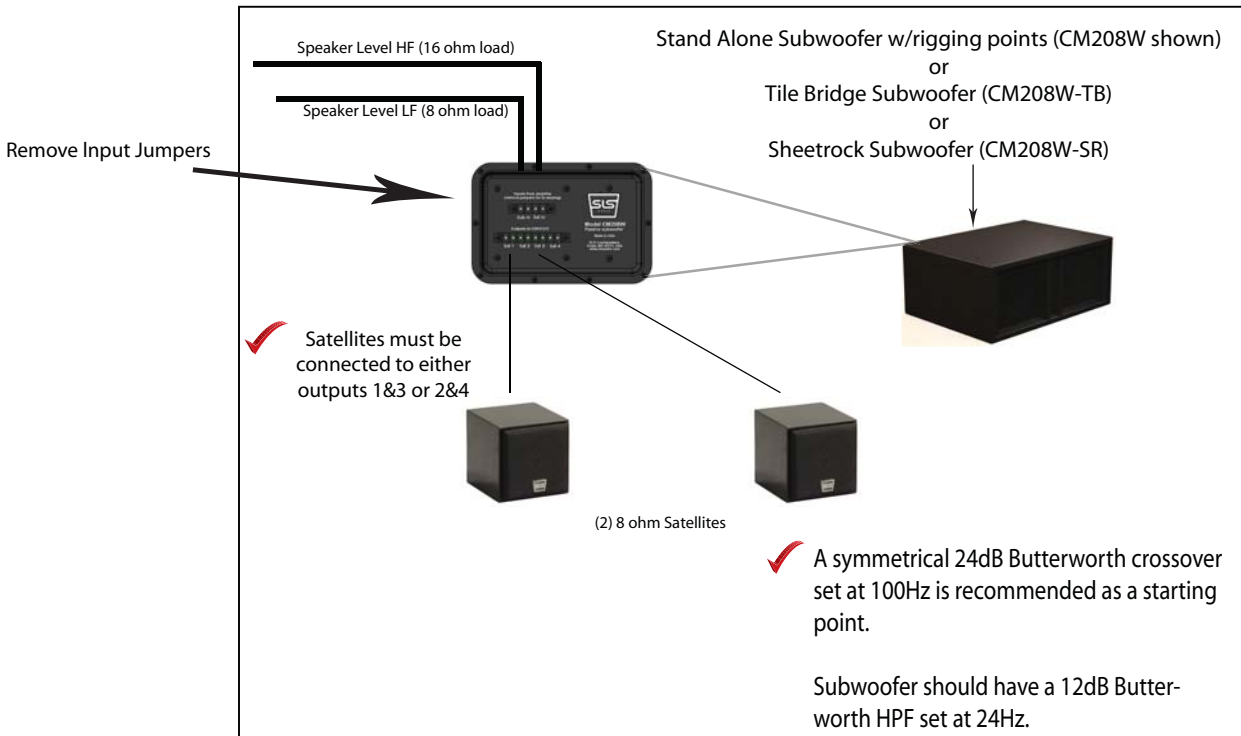


CM208W Series Bi-amp Wiring Schemes

Bi-Amp Configuration with Subwoofer & 2 Satellites



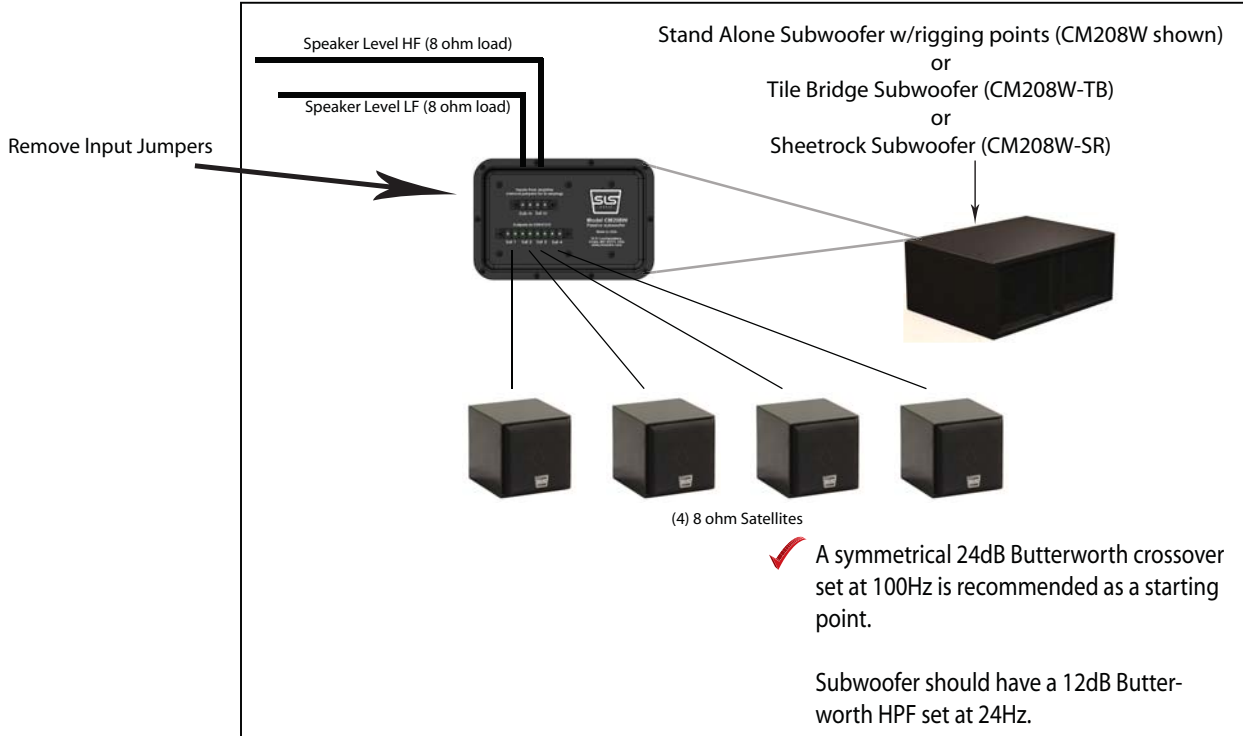
Alternate Bi-Amp Configuration with Subwoofer & 2 Satellites



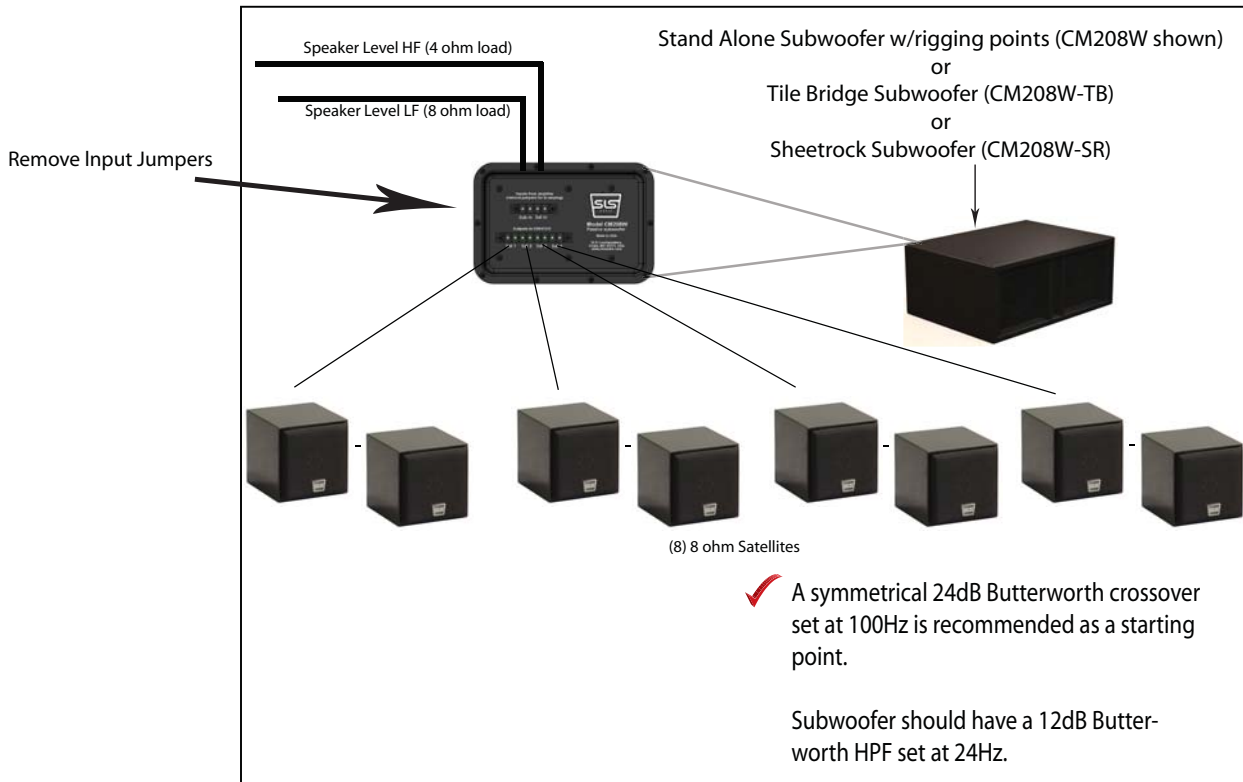


CM208W Series Bi-amp Wiring Schemes

Bi-Amp Configuration with Subwoofer & 4 Satellites



Bi-Amp Configuration with Subwoofer & 8 Satellites





CM208W Installation Guide

The CM208W variant is a standard installation type cabinet with (16) 3/8"-16 thread fly-point locations. It can be used in a free standing design where the subwoofer is placed along a wall or corner or it can be flown using the fly-points. Eyebolts are not included with this model but are readily available from local hardware stores. Four suspension points are required for flying however two connection points to the structure can be used by employing a bridle configuration. 1/8" wire rope is the minimum recommended sizing for the rigging materials.

The CM208W can be flown either from the top as shown or from the back so that the woofers are facing downwards. The performance differences will be small between the two options so the venue requirements can dictate your flying configuration.

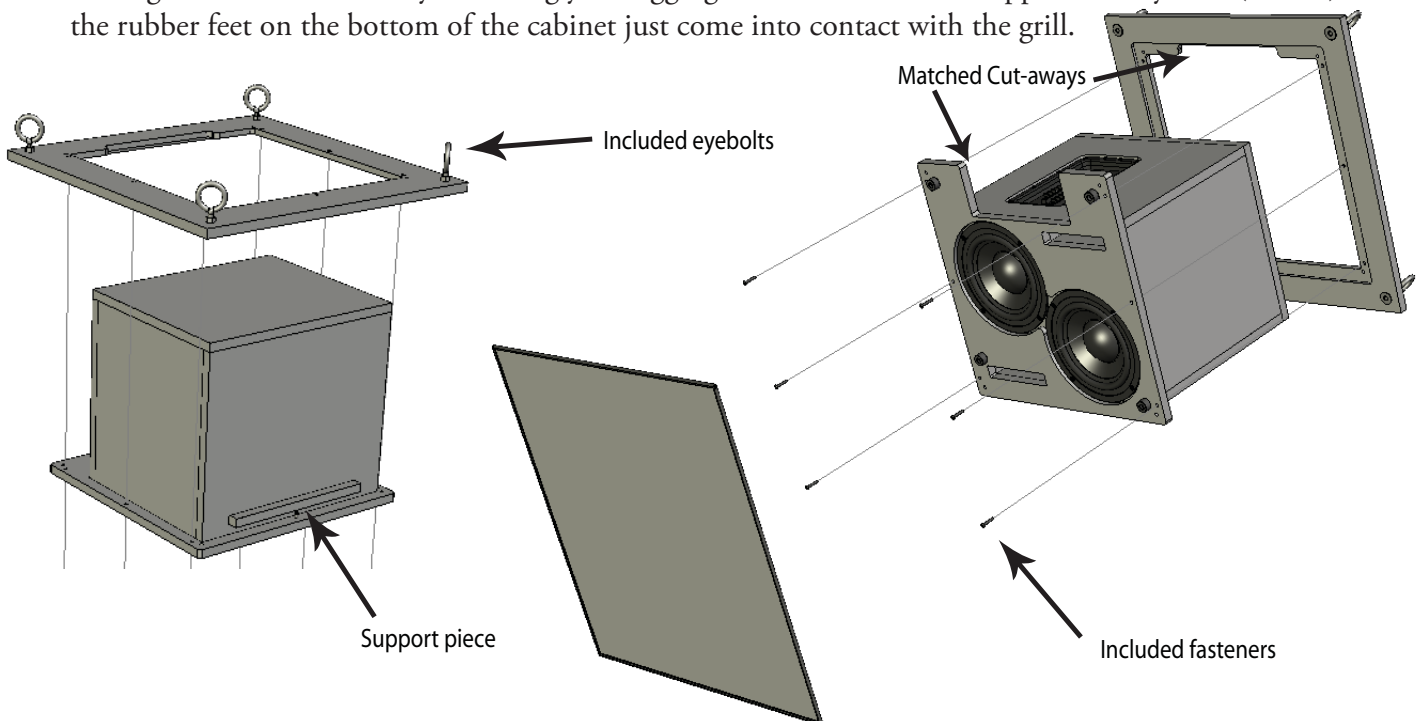




CM208W-TB Installation Guide

The CM208W-TB variant is designed to be installed in 2' x 2' tile bridge ceilings. **You will need 18.5" (47cm) of clearance above the tile grid for installation.**

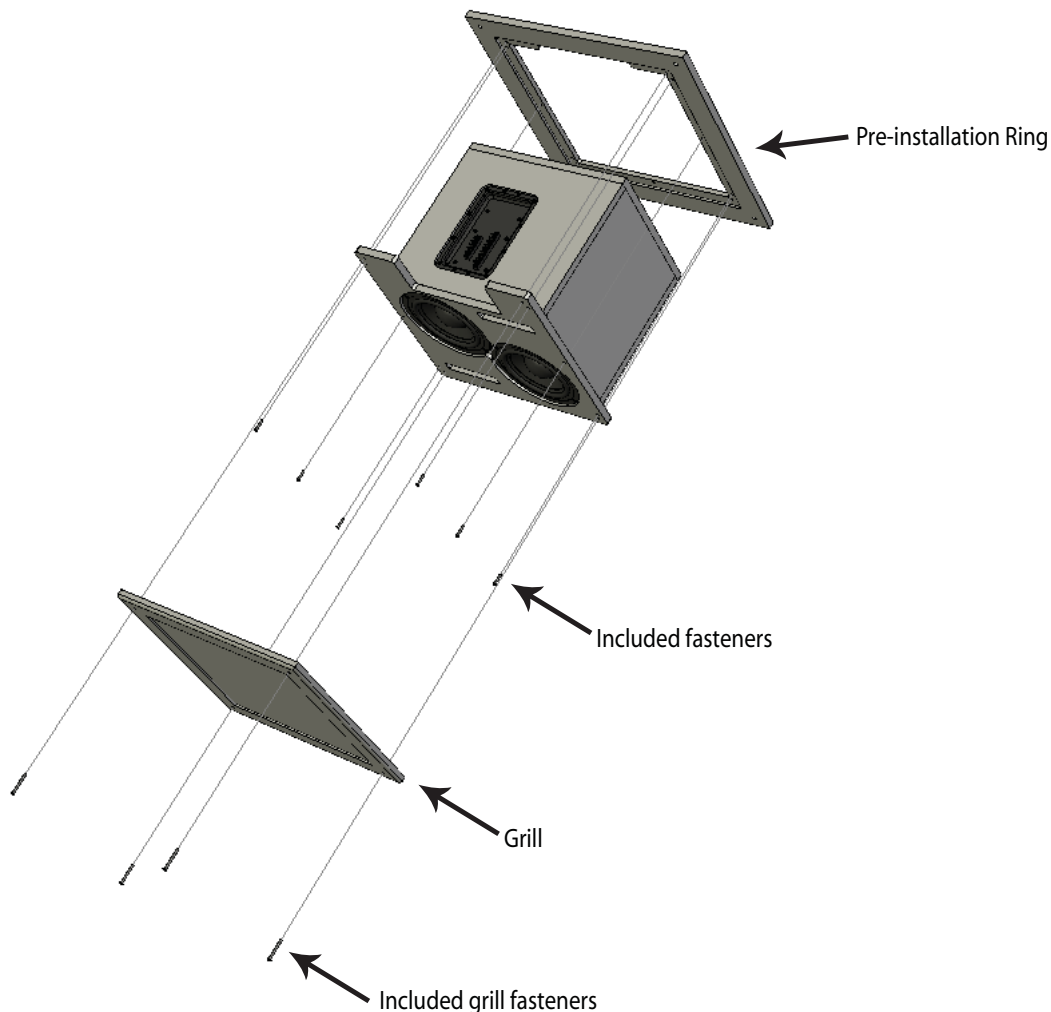
- The (4) eyebolts are included in the installation ring's box. These should be installed first.
- At this point the installation ring can be flown into position (without the subwoofer attached). **It is never recommended that the subwoofer be placed in the grid with no additional rigging to the supporting structure.** Position the ring so that the bottom surface facing the floor is about 2.5" (64mm) from the flat side of the tile grid (the surface where the grill will rest on). This will later need to be lowered about 1.5" (38mm). It is highly recommended that turn-buckles be used in the rigging for this purpose and also to make fine adjustments to the force exerted on the grill by the weight of the subwoofer to prevent the grill from rattling. A bridle may be used so that only two attachment points are needed to the structure. At this time it is also a good idea to confirm that the grid is well supported by hanger wire all around the subwoofer location. At a minimum, all four corners of the grid opening selected should have a hanger wire less than 5 inches away.
- Once the installation ring is in place, lift the subwoofer up through the 2' x 2' tile grid opening and the installation ring. Make sure that the cut-aways on the subwoofer cabinet and the installation ring are aligned. Push the subwoofer sideways to engage the installation ring in-between the bottom flange of the subwoofer and the support piece (see below). A 2nd person can be used to hold the installation ring in place while this is done. Push the subwoofer up into position using the support piece as leverage and fasten to the installation ring with the (6) provided screws. The subwoofer should now be flown above the grid.
- Position the ladder underneath a grid opening next to the subwoofer. Take the grill up and slide it underneath the flown sub into the grid opening below. You should have about 1/4" clearance to do so.
- Using the turnbuckles or by loosening your rigging, lower the subwoofer approximately 1.5" (38mm) until the rubber feet on the bottom of the cabinet just come into contact with the grill.





CM208W-SR Installation Guide

The CM208W-SR variant is designed to be installed in sheetrock ceilings. It ships with a pre-installation ring and an external white grill. **You will need 16" (40.6cm) of clearance above the bottom of the ceiling joist for installation.**

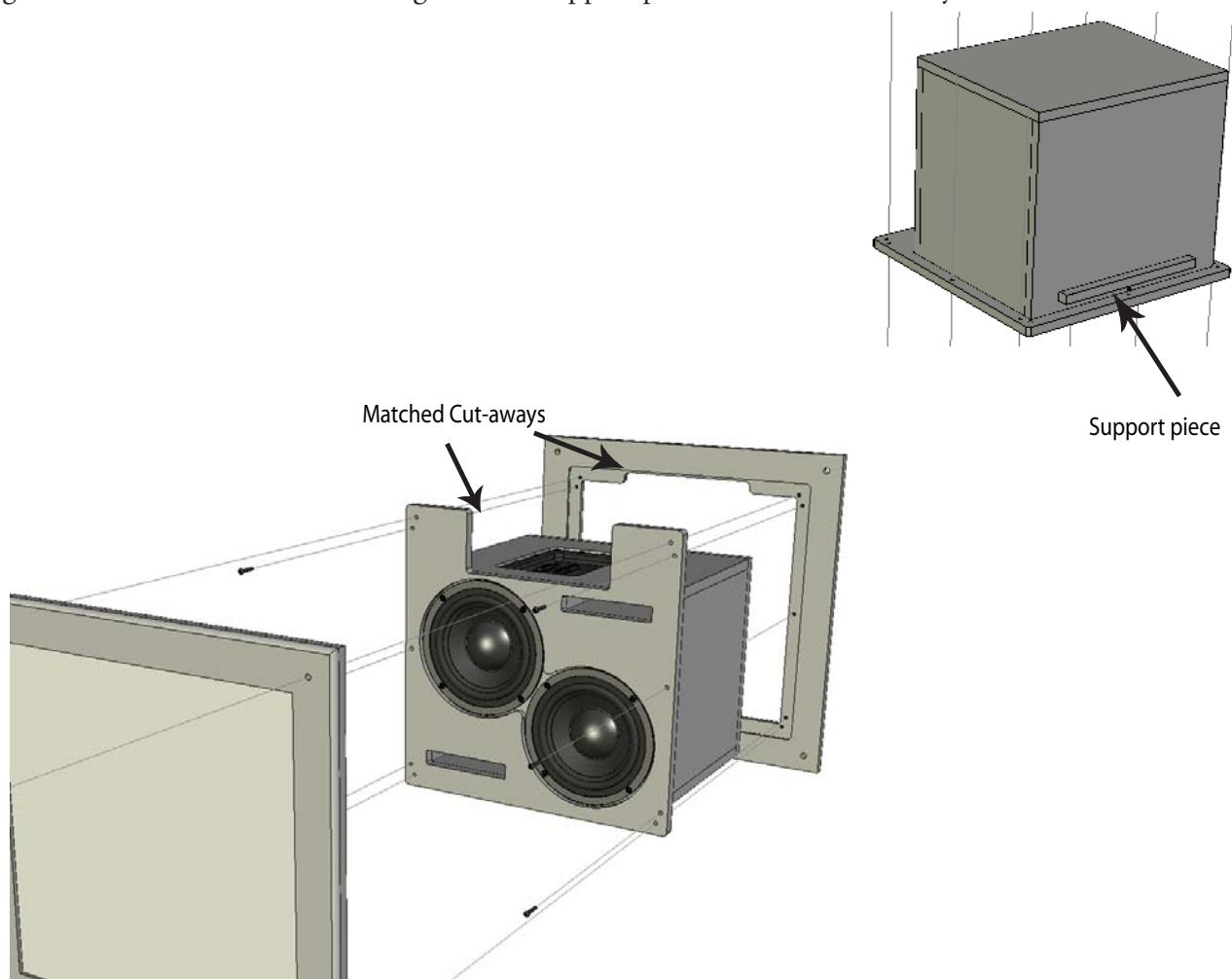


-The pre-installation ring must be installed so that the bottom is even with the bottom of the ceiling joists. (This will make the subwoofer face flush with a 1/2" layer of ceiling material.) There are no pre-drilled holes in the ring for this mounting purpose so that you can have some flexibility. Typically, strips are installed on the joists and wood screws are used that go through the installation ring into the strips that are vertically positioned so that the installation ring is flush with the bottom side of the joist. **Make sure that the T-nuts on the pre-installation ring are facing upwards so that the subwoofer module can fasten correctly.** After this is done, a safety line can be installed from the structure and the wiring run. It is recommended that the wiring hang down through the installation ring so that the location of the ring can be quickly located later.



CM208W-SR Installation Guide (cont.)

- Once the sheetrock is finished, use a spiral saw (with a bit that contains a guide) to cut away the sheetrock from the main center hole. After this, reset the bit and route out the sheetrock from the recess for attaching the subwoofer.
- Align the subwoofer as shown with the cut-away on the installation ring. Lift the subwoofer through the ring and rest it on the installation ring with the support piece fastened to the body of the subwoofer.



- Lift up and fix the subwoofer to the installation ring using the six provided fasteners.
- Attach your cables to the input/output plate working through the provided access hole.
- Attach the grill with the (4) provided white screws.



Specifications

CM208W-TB / CM208W-SR

Product Specifications	
Operating Range	35 - 200Hz
Sensitivity (1W/1M - 1/2 Space)	89dB
Horizontal Coverage Angle -6dB	Omni
Vertical Coverage Angle -6dB	Omni
Power Handling	200W RMS
Max SPL (calculated) 1 Meter	112dB SPL
Recommended Amp Power for Max Output	400Watts @ 8 ohms
Nominal Impedance	8 Ohms or optional 70V 60W tap
Suggested DSP Crossover Frequency - HPF	24Hz - 2nd order BW
LPF	100Hz - 4th order BW
Transducers	Dual 8"
Input/Output	Barrier Strip
Dimensions	19" L 19" W 15.75" D
Enclosure	13ply Baltic Birch
Weight	45 lbs
Mounting	Install/mounting ring
Optional Accessories	Internal 60W 70V transformer
Finish	White Grill with white trim (paintable)

CM208W

Product Specifications	
Operating Range	35 - 200Hz
Sensitivity (1W/1M - 1/2 Space)	89dB
Horizontal Coverage Angle -6dB	Omni
Vertical Coverage Angle -6dB	Omni
Power Handling	200W RMS
Max SPL (calculated) 1 Meter	112dB SPL
Recommended Amp Power for Max Output	400Watts @ 8 ohms
Nominal Impedance	8 Ohms, 70V 60W tap w/optional transformer
Bi-amp Suggested xover Frequency - HPF	24Hz - 2nd order BW
LPF	100Hz - 4th order BW
Transducers	Dual 8"
Input/Output	Barrier Strip
Dimensions	10.6" (27cm) H 24.6" (62.5cm) W 18.1" (46cm) D
Enclosure	13ply Baltic Birch
Weight	48 lbs (21.77kg)
Mounting	(16) Threaded inserts for 3/8" -16 eyebolts
Optional Accessories	Internal factory installed 60W 70V xformer
Finish Options	White Black