

Caliber In-Wall 10-inch Fiber Subwoofer

P/N 30486

User's Manual

SAFETY WARNINGS AND GUIDELINES

- This speaker is intended for indoor use only.
- Do not expose this speaker to water or moisture of any kind.
- If operating this speaker in a humid environment, ensure that no condensation occurs. Condensation could cause damage to the speaker cone and voice coil.
- Power off and unplug all Audio/Video components when making wired connections. Only apply power after all connections have been made.
- Double-check all connections prior to applying power to ensure that speaker polarity is properly made and that there are no stray wire strands, which could short the connections, either on the back of the speaker or the AV receiver/amplifier.
- Do not use full volume until after the speaker has been fully broken-in.
- If you hear distortion, reduce the volume until the distortion is no longer audible. Distortion can sound like a buzzing, scratching, or hammering sound. Distortion can damage or destroy the delicate speaker coils.
- Do not use cleaning fluids, solvents, or other chemicals to clean the speaker frames or grilles.
- Do not use excessive volume when listening to this speaker. If you experience pain, discomfort, or dizziness, reduce volume immediately. Prolonged exposure to excessive volume can cause permanent hearing damage.
- Do not disassemble or attempt to service this speaker.
- You must use speaker wire rated for in-wall use.
- Do not attempt to install this speaker near power outlets, wall switches, or ceiling fixtures. These objects indicate the presence of AC power lines within the wall or ceiling and should be avoided.
- Always check and adhere to your local building and fire safety codes before installing this speaker and running wires through the walls and ceiling.

INTRODUCTION

Thank you for purchasing this Caliber In-Wall Subwoofer!

In-wall speakers are the ideal combination of sound quality and styling. Rather than cluttering the room with large box speakers trailing speaker wires, the speakers are virtually invisible, while filling the room with high fidelity audio. Featuring removable and paintable grilles, this passive subwoofer can handle up to 150 watts (RMS)/300 watts (peak) of power into 8 ohms. It has an 88dB sensitivity and 33 ~ 230 Hz frequency response.

FEATURES

- 150 watts RMS/300 watts peak power handling capacity
- 33 ~ 230 Hz frequency response
- 88dB sensitivity
- 8 ohms impedance
- Removable and paintable grille

CUSTOMER SERVICE

The Monoprice Customer Service department is dedicated to ensuring that your ordering, purchasing, and delivery experience is second to none. If you have any problem with your order, please give us an opportunity to make it right. You can contact a Monoprice Customer Service representative through the Live Chat link on our website **www.monoprice.com** during normal business hours (Mon-Fri: 5am-7pm PT, Sat-Sun: 9am-6pm PT) or via email at **support@monoprice.com**

PACKAGE CONTENTS

Please take an inventory of the package contents to ensure you have all the items listed below. If anything is missing or damaged, please contact Monoprice Customer Service for a replacement.

1x Caliber in-wall 10-inch fiber subwoofer

1x Metal bracket

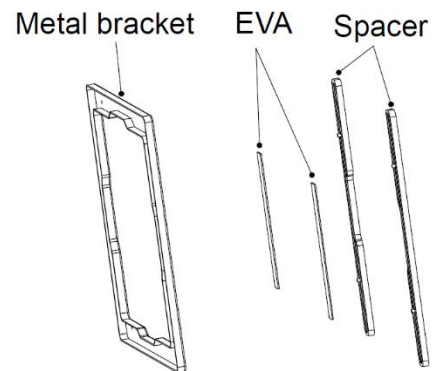
2x Spacers

2x EVA

4x Screws

1x Grille removal tool

1x User's manual



SPEAKER BREAK-IN

In the same way that a new car requires a break-in period before it can be safely operated at high engine RPMs, speakers require a break-in period before they can be safely operated at maximum volume levels. Proper break-in ensures that the moving parts of the speaker (the cone and cone suspension) are allowed to flex and soften, losing the initial stiffness and allowing the speaker to move through its full intended range. After the break-in period, the speakers will produce richer and fatter sounding lows, warmer and smoother sounding mids, and cleaner and more accurate highs, without any hint of distortion.

The best way to break-in speakers is simply to play normal music or watch movies at moderate volume levels. The amount of time required for speaker break-in varies based on the operating environment, but is typically in the area of 50~80 hours. It will take a bit longer in a cold or dry environment and a little less time in a warm or humid environment.

Note that the break-in period does not have to be continuous.

SPEAKER WIRE PREPARATION

Before attempting to make any connections it is best to look at the situation, get all the necessary materials together, and then make all the connections at once.

First, look at the back of your amplifier or receiver to determine what options it offers for making connections. Amplifiers and receivers typically employ either 5-way binding posts, spring-loaded terminals, or push terminals for the speaker connections.

A 5-way binding post can accept bare speaker wire, spade plugs, pin plugs, and banana plugs, while spring-loaded terminals and push terminals can accept either bare speaker wire or pin plugs. Refer to the documentation that came with your amplifier or receiver to determine the maximum size/gauge speaker wire the speaker terminals can accept.

This speaker features spring-loaded terminals, which can accept pin plugs or bare wire up to 14AWG. If your amplifier can accept it, you should use 14AWG speaker wire. Using pin plugs is highly recommended for several reasons. Plugs are easier to connect, don't run the risk of stray wire strands shorting the connections, allow for use of heavier gauge speaker wire in most cases, and it is much easier to identify the polarity from a color coded ring on a plug then from a subtle marking along the length of a wire.

Because the speaker wire will necessarily be run through your walls, you must use in-wall rated wire. This is required by fire safety codes and ensures that the wire jacket will not act as an accelerant in the event of a fire.

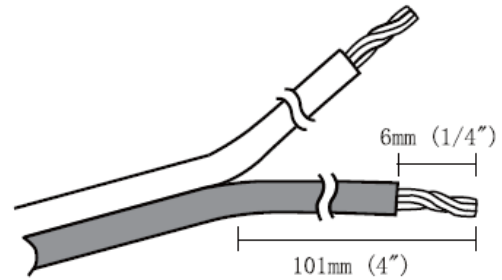
Rather than using a fixed length speaker wire, it is best to get a roll and cut the wire to the length you need. This ensures that there is a minimum amount of excess wire.

Before making the actual connections, cut a length of wire to size. Note the markings on the wire that differentiate between each conductor. Sometimes the marking clearly identifies a positive and negative side. Some common clearly positive and negative markings or identifiers are:

Positive	Negative
Red	Black
Copper	Silver
+++	---

In many cases, the mark is a single stripe on the jacket of one of the connectors. In this case the side with the stripe is generally considered the positive side, but it really does not matter as long as you are consistent and always using the stripe as positive or always using it as negative.

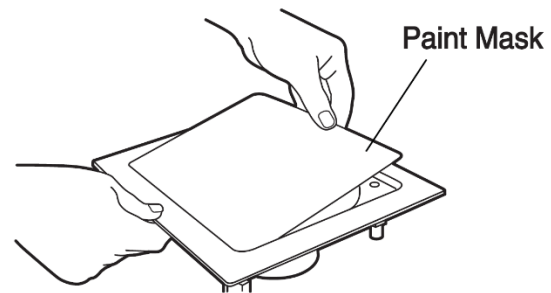
When you are ready to prepare your speaker wire, first separate about 4" of wire, then strip about 1/4" (6mm) insulation from the end and twist it to prevent stray strands. If you plan to use banana or pin plugs (highly recommended), install the plugs on the wire.



PAINTING

The grille and frame can be painted to match your walls, making the speaker even less noticeable. Perform the following steps to safely paint it without damaging the speaker.

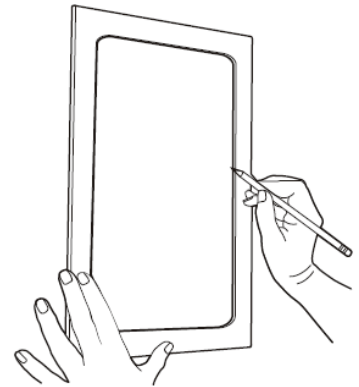
1. Remove the center portion of the cardboard installation template/paint mask. The central portion is the paint mask, while the outer portion is the installation template.
2. Completely remove the grille by inserting a paper clip or the included grille removal tool into one of the holes and pulling to lift it off the frame.
3. Remove the foam insert and set it aside.
4. Insert the paint mask, covering the speaker while leaving the frame exposed.
5. Paint the speaker frame and grille. It is best to use spray paint to avoid paint clogging the holes in the grille.
6. Allow the paint to completely dry before proceeding with installation. Ensure that the holes in the grille are not blocked by paint.



INSTALLATION

Perform the following steps to install the speaker in the wall.

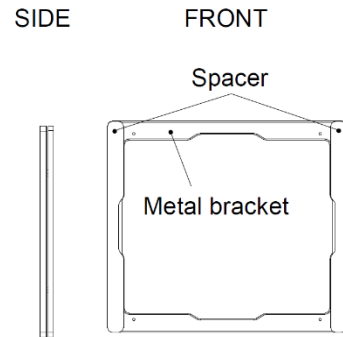
1. Determine where you will be installing the speaker. Use a stud finder to ensure that there is sufficient space between the desired location and the adjacent studs. Be sure and check for horizontal framing members, as well. Use a pencil to mark the edges of the adjacent studs.
2. If you have not already done so, remove the center portion of the cardboard installation template/paint mask and set it aside. The central portion is the paint mask, while the outer portion is the installation template.
3. Position the installation template against the wall at the installation location.
4. Use a carpenter's level to ensure that the template is level.
5. Use a pencil to mark the cut line on the wall.
6. Remove the template from the wall and set it aside.
7. Use the level again to check the cut lines to ensure that they are level. Repeat steps 3-6 as necessary until the cut lines are level.
8. Drill a small hole in the middle of the cutout area. If the proposed installation location is not clear, you can more easily repair the small hole than if you cut without checking and find one or more obstructions.
9. Take a stiff piece of wire, such as a hanger, and bend it 90° about 8" from the end. Insert the wire past the bend, then rotate the wire 360° to check for hidden obstructions behind the wall. Push it in to ensure that there is sufficient clearance behind the wall or ceiling.
10. Once you know your installation location is clear, use a drywall or keyhole saw to cut along the cut lines.



11. If you have not already done so, prepare your speaker wire in accordance with the guidelines in the *Speaker Wire Preparation* section above.

Important! Because the speaker wire will necessarily be routed through your walls, you must use in-wall rated speaker wire.

12. Route your speaker wire from the back of your amplifier, through the wall, to the installation location.
13. Connect the plastic spacers to the metal ring (flat side) by lining up the protruding plastic with the holes on the metal ring.

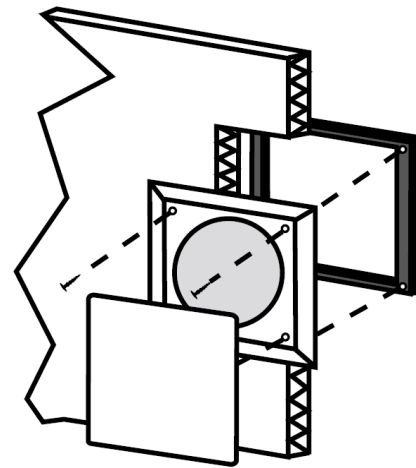


14. Remove the grille with the grille removal tool.
15. Place the metal ring around the back of the speaker with the flat part of the metal ring facing the speaker. The metal ring will only fit a certain way.

16. Thread the screws through the front of the speaker and slightly into the metal bracket. At this point, the screws should be flush and not protruding through the threads in the bracket.

17. Connect one end of the speaker wire to the speaker terminals.
18. Give a gentle tug on each lead to ensure that they are securely connected to the terminals.

19. With the terminals at the bottom of the speaker, slide the top part of the mounting bracket into the opening and up, then slide the bottom of the metal bracket into the opening



20. With the speaker flush against the wall, tighten the screws in an X pattern in increments until they are all tight.
21. Replace the speaker grille.

22. Connect the other end of the speaker wire to your amplifier's speaker terminals, taking care to match the polarity.
23. Plug in and power on your amplifier. Start audio playback and verify that the speaker is operating properly.

Congratulations, your speaker is installed and ready for use!

TECHNICAL SUPPORT

Monoprice is pleased to provide free, live, online technical support to assist you with any questions you may have about installation, setup, troubleshooting, or product recommendations. If you ever need assistance with your new product, please come online to talk to one of our friendly and knowledgeable Tech Support Associates. Technical support is available through the online chat button on our website **www.monoprice.com** during regular business hours, 7 days a week. You can also get assistance through email by sending a message to **tech@monoprice.com**

Model	30486
Speaker Type	Passive subwoofer
Driver Size	10"
Driver Type	Aramid fiber cone
Maximum Input Power (RMS)	150 watts
Maximum Input Power (Peak)	300 watts
Frequency Response	33 ~ 230 Hz
Impedance	8 ohms
Sensitivity	88dB
Crossover	-10dB @ 230Hz
Fs	34.628 Hz
Re	7.2 ohms
Qts	0.484
Vas	70.150 liters
Cms	411.798 $\mu\text{m}/\text{N}$
BL	12.391 T
EBP	66.21
Xmax	3.5mm
SD	34.636 cm^2
Cutout Dimensions	10.57" x 10.57"
Mounting Depth	3.6"
Overall Dimensions	12.0" x 12.0" x 3.6"
Weight	9.3 lbs. (4.2 kg)