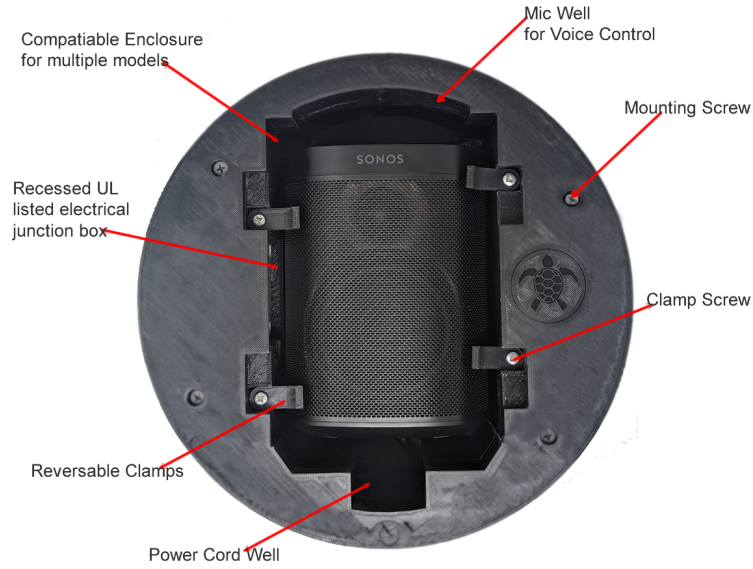


SpkrShell CW1-DS In-Ceiling/Wall Enclosure Installation Guide

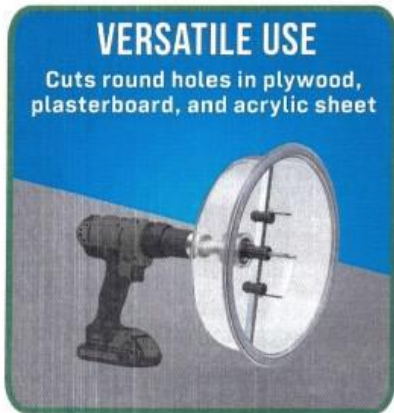


WARNING: We recommend you consult with and hire a licensed home audio installer and/or electrician to insure a safe and quality installation. Please read through all steps and safety precautions in this guide before beginning, the information and steps provided are for general guidance only, for common ceiling installation. You or your contractor should adhere to local building codes and approved practices.

STEP 1

Locate the best spot. When installing your speaker enclosure you want to pick the best spot for the best sound, in this case there are plenty of guides online for how to do this for your specific needs.

Once you have the ideal spot picked CHECK CLEARANCE! You will need at least 11-1/4 inches diameter clearance. If you pick the center of where you want your speaker, you will need 5-5/8" minimum in any direction, this includes about 5-1/4" of height. You can poke a hole in the center of the desired location and use a bent piece of wire or coat hanger through the hole to help locate obstructions.



STEP 2

* If you used our pre-drywall brackets (sold separately) then your drywaller should have already cut your speaker enclosure opening for you, although they may need to be cleaned up. If they have not been cut out, then follow the instructions below...

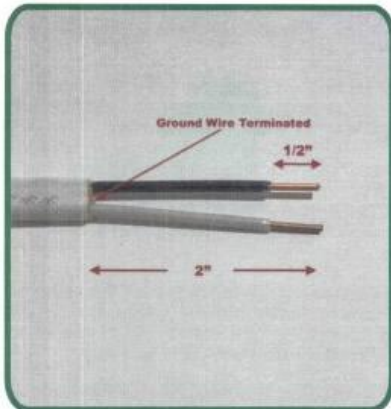
Cut the hole. We provide a round template that is 10" in diameter, this is the MAX size you want to cut your opening. We recommend tracing *tightly* around the template and then cutting within that line.

A regular drywall knife and vacuum will work for most drywall ceilings.



STEP 3

Consult a professional installer or a licensed electrician. You will need a live electrical circuit, preferably unswitched, that you can safely add additional load too. Each smart speaker draws about 2 Amps.



STEP 4

Our enclosure is supplied with an electrical collar for non-metallic wiring, such as Romex® in-wall rated wiring. We do not offer an option for Metal Clad wiring at this time, but you can check our website for up-to-date information as we may offer this option in the future. If you need to connect to MC type wiring, please consult with a professional electrician, as they may be able to provide an adapter or alternate collar that may work.

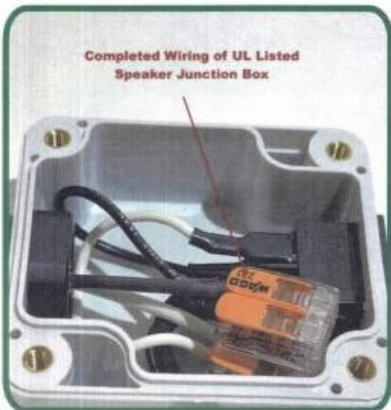
Prepare wire for use in UL listed WAGO® connectors as shown



STEP 5

Open the UL Listed electrical junction box in the enclosure using a short Phillips-type screwdriver to remove 4 screws of the cover.

Now, insert wire through the strain relief wire collar on the back of the enclosure, and connect the prepared wire into the lever lock WAGO connectors as shown.



STEP 6

Check that all wiring connections are secure, and WAGO levers are fully locked down. The ground wire may be cut off as shown above in step 4 or simply capped off, it is not necessary as the Sonos speaker units do not use grounded plugs, and the enclosure is non-metallic.

Reattach the cover and tighten securely, be sure not to pinch any of the wiring.



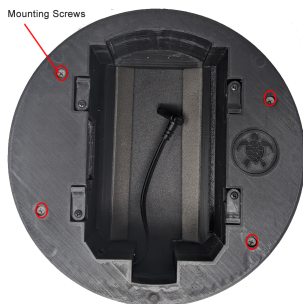
STEP 7

Ensure the electrical junction box cover is installed correctly, for proper clearance when inserting the speaker.



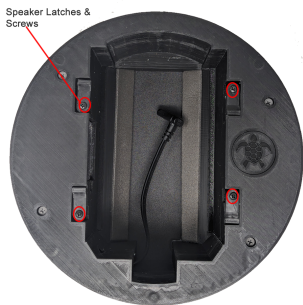
STEP 8

Now is also a good time to check the assembly fits the hole freely and trim the wallboard if needed. Be sure to check in the hole for any loose debris or obstructions that would prevent the install clamps from operating freely. We recommend using a hand screwdriver when tightening the clamps as over tightening can break the dogs or screws, or blister the drywall.



Now install the enclosure by inserting the enclosure assembly into the opening and securing it by slowly and carefully turning the Mounting Screws (shown) counter-clockwise for half a turn... Then turn clockwise to engage and then tighten the dog clamps snugly against the wallboard.

If the ceiling is smooth and flat, the enclosure should be snug and mostly flat against the drywall. The grille will normally cover any slight imperfections.



STEP 9

Once the enclosure assembly is installed and secured, rotate the speaker clamps (shown) so they are pointing away from the speaker opening.

Use a screwdriver to slightly loosen the clamp screws if needed.

STEP 10

Connect the UL listed power cord to your speaker. This is typically a snug fit, make sure the power cord is fully seated into the speaker. The orientation of the cord may vary, the single cord provided works with ALL speakers we have listed as compatible.



STEP 11

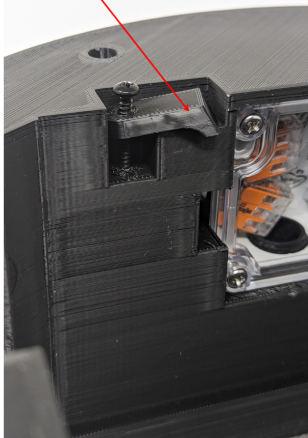
Carefully install the Sonos speaker in the opening of the enclosure. This may be a tight fit, but it should fit easily. Allow the power cord to fold into the bottom cavity, it will fit.

The speaker will rest into the back of the enclosure, make sure the speaker is centered & straight. Some speaker models may be able to slide/rotate, this is normal, once properly positioned and clamped they will not move.

STEP 12

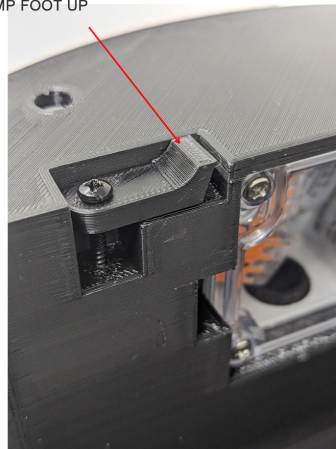
Determine the orientation of the speaker clamps, if using the SONOS ERA 100 speaker you will need to remove the clamp screws fully and flip-over the clamps, as shown below. Then reattach them to the enclosure. Be careful to reinsert the clamp screws straight into the same holes, and then leave them loose for the next step.

CLAMP FOOT DOWN



SONOS: ERA 100

CLAMP FOOT UP



SONOS: ONE, ONE SL, PLAY:1
DENON: HEOS HOME 100



STEP 13

As shown, rotate the speaker clamp to its slot, and capture the speaker. Then tighten the clamp screws snugly, this may require the use of a powered screwdriver, use the clutch! DO NOT overtighten!

The latches should fully rotate and set against the face/side of the speaker, if they do not then you likely do not have the speaker fully seated in the enclosure or the latches are not in correct orientation for the speaker you're installing.

DO NOT force the speaker or the latches.



STEP 14 Once the speaker is secured the installation is complete, you may now power on the speaker and connect to your system if you have already done so.

STEP 15 Once you have confirmed the speaker is functioning properly, attach the provided magnetic grille and ENJOY your new flush mount Sonos speaker!

SPECIFICATIONS

Mounting Depth - For use in standard 6" framing such as ceilings, or walls. A total finished wall depth of at least 5.25". This is measured from the finished side of the wall/ceiling.

Mounting Substrate Thickness - The mounting 'dog' clamps have a max opening of 1", we recommend a max finish material (drywall, wood, etc) thickness of 7/8" to ensure proper clamping force.

Mounting 'Cut-Out' - The cutout diameter is 10", a 10" template is included with the enclosure.

Electrical Connection - The 3-way WAGO connectors are rated for 12-24 AWG copper wiring. The wiring collar/grommet is designed for Romex type wire only, with a max of 2x 14/2 w/ground. All electrical connections and components are UL listed and meet standard NEC codes at time of manufacture. Always refer to your local up to date code requirements, as some area codes may have been updated or be stricter than national standards. It is the installers responsibility for modifications if they are required to meet local codes for your specific installation.

Compatibility - This enclosure is designed for use with SONOS® and DENON® brand bookshelf speaker models: Sonos ONE, ONE SL, PLAY:1 and Denon Heos/Home 100. Use of any other speaker is not recommended.

Microphone/Voice Control - Do not block the 'well' opening at the top of your speaker, it is for the microphone. The included grille is ok to use, but do not add anything additional. Please note: it is still possible the Voice function may not work as these features can be sensitive and negatively affected by other environmental issues such as the rooms general acoustics or other outside factors.

SAFETY PRECAUTIONS & WARNINGS

DO NOT use any chemicals on this product or expose to excessive heat, do not install near heating pipes or ducts, or exhausts.

DO NOT use this product if the enclosure or its components are cracked or broken.

DO ensure all speaker brackets or mounting clamps are all fully engaged and snug.

DO NOT use any speaker that is not approved for use with this enclosure, as it may not properly clamp into the enclosure, the enclosure may cause the speaker to exceed its rated operating temperature, or you may exceed the weight rating of the enclosure.

DO keep the speaker grill and speaker vents clear of any dust or debris to prevent overheating of the installed speaker.

DO hire a professional licensed contractor to complete the installation of this product.



DISCLAIMER

Terrapin is not responsible for, and must be held harmless of, any losses or damages incurred from improper installation or use of this product, or for any 3rd party products used in or within conjunction with this enclosure. Any speakers specs or recommendations in this guide are provided as an initial reference only, you should always refer to your specific speakers product specifications to ensure it is compatible with our products, as manufactures may make multiple versions of model overtime and specs could change without notice.

WARRANTY

Terrapin guarantees this product to be free from defects in workmanship and materials for a period of 1 year from the original date of purchase from an authorized dealer. See Terrapin warranty statement on our website for complete warranty terms and details.

3rd Party Product and Brand Disclosures

We may mention brands that are compatible with our products for ease of describing the use and function of our products, in some cases our products may contain other brand products as part of device or products assembly. This is not to be deemed an endorsement or affiliation of any kind with Terrapin Outdoor Solutions, and are exclusively the trademarks of their respective rights holders

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DENON is a trademark of D&M HOLDINGS INC

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