



Model CS308 In-Ceiling Loudspeaker Kit

Specifications

Color: White

Cone Size: 2-way speaker: 1" tweeter + 6.5" woofer

Impedance: 8 ohms

Rated Power (RMS): 30W

Rated Power (Peak): 60W

Sensitivity: 87 dB

Frequency response: 45Hz to 20kHz

Cone material: PP w/ Mica

Back cover material: UL Fire-rated ABS plastic

CS308-MNT Bracket material: Steel (18 awg)

Warranty

Califone warrants the CS308 to be free from defective material and workmanship for one year from the purchase date. Our "Project Intercept" Customer Satisfaction program will replace defective parts and repair malfunctioning equipment under this warranty when the defect occurs under normal use.

All Damage Claims Must Be Made With the Freight Carrier

Notify the freight carrier immediately if you observe any damage to the shipping carton or product. Repack the unit in the carton and await inspection by the carrier's claim agent. Notify your dealer of the pending freight claim.

Returning Your Unit for Service or Repairs

Should your unit require service, contact our Customer Service Department online at califone.com/techsupport or via email warranty@califone.com or by phone at 800-722-0500 / 818-407-2400 to first obtain an RA (Return Authorization) number before returning it to Califone. The unit must be returned to our factory via prepaid transportation only after the factory issues an RA number, which must be clearly written on the outside of the box.



Model CS308 In-Ceiling Loudspeaker Kit



User Manual



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Thank you for purchasing the Califone® Model CS308 In-Ceiling Loudspeaker Kit.

We encourage you to visit our websites, www.califone.com and www.califonepro.com, to register your product for its warranty coverage, to sign up to receive our newsletter, download our catalog, and learn more about the complete line of Califone audio visual products, including portable and installed wireless PA systems, multimedia players and recorders, headphones and headsets, computer peripheral equipment, visual presentation products and language learning materials.

The CS308 is a high-fidelity two-way speaker system with a 6.5-inch (165 mm) woofer, a 1-inch (25.4mm) tweeter and an integrated crossover. It is rated at 8 Ohms impedance and designed to operate with an average (RMS) power rating of 30 Watts, and a peak power rating of 60 Watts.

The CS308 is designed to be mounted flush with your ceiling or wall, for use in both stereo or surround systems. Its frame and grille can be painted to match the wall or ceiling, making it ideal for the most low-profile applications.

The CS308 speaker kit also includes the CS308-MNT mounting bracket, for use when mounting the speaker in an acoustic or drop ceiling.

Please take the time to read through these brief instructions. They will provide the information you need in order to provide the optimal installation and operation of your speaker system.

Once the speaker is positioned, place a few small pieces of the supplied black adhesive strip into the channel surrounding the speaker cone.

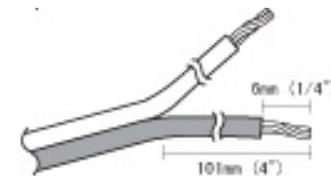


Then place the speaker grille into the channel and push into position.



Wiring the Speaker

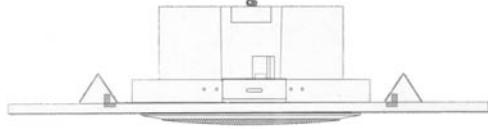
Strip approximately ¼" of insulation from both ends of the speaker wire.



Attach the speaker wire to the speaker. Use the wire's color coding or markings as a guide to maintain the proper polarity.

While holding the assembly in place on the back side of the tile, place the speaker assembly through the hole and attach to the Circular Speaker Bracket using the four screws on the outer edge of the speaker. Be careful not to tighten the screws too far to avoid damaging the tile. Do not attempt to bend or reshape the Circular Speaker Bracket, as doing so may cause the speaker to fall.

Replace the tile, making certain to position the Bridge Brackets ends so that the frame is supporting them at all four points.



Installing in a Sheetrock (Plasterboard) Wall or Ceiling

Please note that the speaker can be installed in walls or ceilings with a maximum thickness of 1.25 inches. In buildings with older lathe-and-plaster ceilings or walls, we strongly recommend professional installation.

After you've chosen your ideal speaker locations, use a stud finder to locate the studs in that area of the wall or ceiling. Inspect the selected area for AC circuitry, water pipes and other infrastructure. When drilling into walls or ceilings, use caution to avoid damaging these items.

To make sure the area behind your wall is clear, drill a hole in the center of the template.

Bend a wire coat hanger to 90 degrees, so that the end of it meets the edge of the circle you've drawn.

Insert the wire into the hole and rotate it 360 degrees to make explore the area for obstructions.

If it's clear, you can then use a drywall saw to cut the speaker hole. (Hint: drill a hole along the circumference of the circle to create a starting point for your saw.)

Do not cut any drywall until you've drilled pilot holes and checked all of your desired speaker locations. If one location doesn't work, you might need to move others as well.

Do not discard the cut away piece of drywall until you've completed the job, in case you need to use some for patching.

Position the speaker into the hole and tighten the four screws on the outer edge to secure it to the wall or ceiling. Be careful not to tighten the screws too far to avoid damaging the wall or ceiling.

Unpacking the Unit

Inspect the unit once the packaging has been opened for any damage occurred during shipping & contact us immediately. Please keep the packing material for further use.

Contents

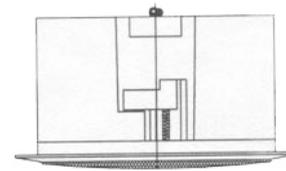
The CS308 kit contains the CS308-SPK speaker and CS308-MNT mounting kit.

CS308-SPK Contents:

- Speaker with integrated UL Fire-rated back cover
- Speaker grille removal tool
- Black adhesive for attaching speaker grille
- Cardboard template / paint mask

CS308-MNT Contents:

- Circular Speaker Bracket
- (2) Tile Bridge Brackets
- (4) screws for attaching Speaker Bracket to Tile Bridge Brackets
- (4) nuts for screws



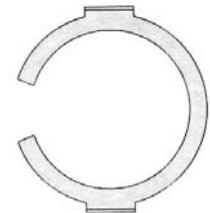
Speaker with Cover Assembly



Speaker Grille Removal Tool



Tile Bridge Bracket



Circular Speaker Bracket

Preparation and Planning

Safety Considerations

Before installing your speaker, make sure that you have a thorough understanding of local building and fire codes. Improper installation can cause serious injury. Use only industry approved mounting methods and hardware.

Califone cannot be held responsible for improper installation or subsequent damage.

Determining Placement

For stereo music listening, it's best to position the speakers in the ceiling or wall, slightly in front of the listening area, rather than directly overhead.

For surround sound systems, locate the front channels (left, right and center) in the ceiling or wall toward the front of the listening area. Locate the rear (left and right) speakers slightly behind the main listening area.

Preparing the Speaker

Once you have selected a location for your speaker, remove the inner cardboard disk from the included paint mask and use it as a template to trace the cutout area.



If you choose to paint the speaker frame and grille, use the included cardboard paint mask to protect the speaker. Paint and allow to dry before installing.

Use the enclosed grille remover tool, or insert paper clip into one of the grille holes and pull up. Alternatively, carefully twist (flex) the plastic outer frame back and forth to expose the edges of the grille, then lift to remove.



Installation

Tools Required

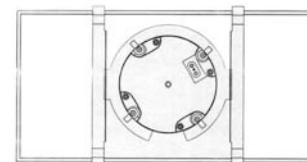
- #2 Phillips Screwdriver
- Wire strippers
- Level
- Stud finder
- Hand-held Drywall Saw

Installing in an Acoustic or Drop Ceiling

The acoustic tiles of a drop ceiling are typically not dense or sturdy enough to support the weight of the speaker. For installation in a drop ceiling, use of the CS308-MNT mounting bracket is required for safety.

Do not install the CS308 speaker in a drop ceiling without the mounting bracket, as it can pose a potential safety hazard if it falls.

The mounting bracket kit is designed to fit a standard drop ceiling with 24" x 24" or 24" x 48" panels. The 24" cross braces fit directly over the drop ceiling's tile frame. Please note that the speaker can be installed in ceiling tiles with a maximum thickness of 1.25 inches.



Remove the ceiling tile from the frame and carefully measure the position for the speaker cutout, using the template to trace the cutout area. Make certain to position the assembly directly over the desired cutout location.

Attach both sides of the Circular Speaker Bracket to the Bridge Brackets using the included screws and nuts.

