

# MCM CUSTOM AUDIO

## Drop Ceiling Speaker System Model 555-9018

### Complete Ceiling Speaker Kit

- Ceiling baffle cover
- Tile grid load bearing support
- 8" Dual Cone Speaker
- 10W / 70V transformer
- Mounting screws



### Overview

MCM has taken the most popular ceiling speaker features, and put them together in a single, preassembled package, thus saving the installation time and money. Increased magnet size and power capacity, combined with six transformer taps from 1/3W to 10W, enables one package to work in a wide variety of applications.

This speaker is specifically designed to quickly install in conventional 2'x2' or 2'x4' drop ceilings. The included load support places the weight of the speaker on the tile grid, not the ceiling tile, preventing future issues with tiles sagging or breaking.

### Specifications:

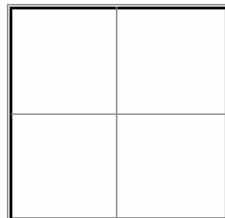
- 8" dual cone full range speaker
- 10 oz. magnet
- 8ohm impedance (with transformer bypassed)
- Power capacity: 10W/20W RMS/program
- Frequency response: 50Hz ~ 16.5KHz
- Voice coil diameter: 1"
- Sensitivity: 86dB (W/M)

### Transformer Connections

Color	Power Rating	Impedance
Black:	Common (-)	
Red:	0.325W	15KΩ
Brown:	0.625W	7.8KΩ
Orange:	1.25W	3.9KΩ
Yellow:	2.5W	1.9KΩ
White:	5W	980Ω
Blue:	10W	490Ω

## Installation

Remove the ceiling tile section occupying the desired speaker location  
Determine the desired location of the speaker within that tile.



24" x 24" Ceiling Tile

Draw two perpendicular lines to cross in the direct center of the tile.

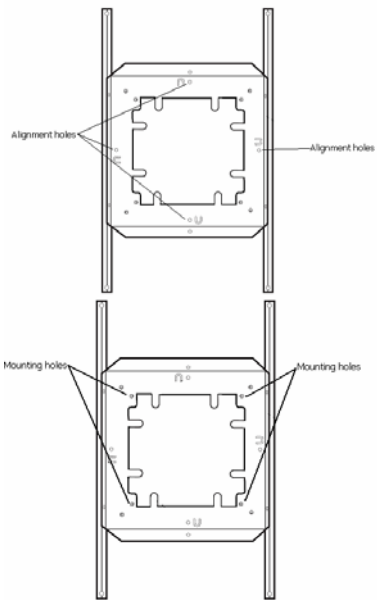
In a 2' x 2' tile, the speaker must be located directly in the center.



24" x 48" Ceiling Tile

Draw two perpendicular lines to cross in the direct center of the tile.

Note that on a 24" x 48" tile, the speaker does not have to be in the exact center, but must be centered within 12" of either side.

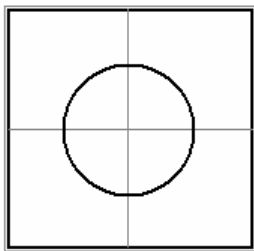


Lay the load bearing support on the back of the tile.

Look at the four alignment holes located on the support and make certain that your drawn perpendicular lines are centered on within all four of these holes.

While ensuring the alignment holes are properly positioned, use a pencil to mark the four mounting holes on the back of the ceiling tile.

These holes can be identified by the attached threaded spring clip in each location.



24" x 24" Ceiling Tile

On the back of the ceiling tile, once you have established the centerpoint for the speaker location, draw a 9" diameter circle (4.5" radius from the center point) on the tile surface.

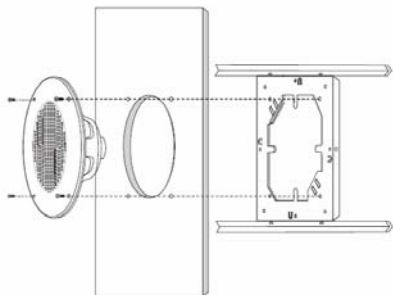
Using a suitable cutting tool, such as a drywall saw, Rotozip™ type saw or other similar device, cut out the 9" diameter circle.

*(tip)*

*Placing the tile section face down on the top of a large trash can greatly eases this process. The sides of the trash can provide optimal support on all sides of the opening, the opening in the trash can allows plenty of room for the saw blade, and all debris falls directly into the trash can.*

With the tile section still facing down, place the speaker/baffle assembly directly over the hole to ensure there is sufficient room for the speaker frame and attached transformer to fit through the opening.

Remove the speaker baffle assembly and lay the "H-frame" load bearing support bracket on the back of the tile.



With the load bearing support on the back of the tile, place the speaker/baffle assembly on the front of the tile.

Using the four included machine screws, attach the speaker/baffle assembly to the load bearing support, with the ceiling tile sandwiched between them as shown.

Tighten the screws only enough for a snug fit. Over tightening may cause baffle to warp.