

KARBON^{AUDIO}

ARCHITECTURAL LOUDSPEAKER

ICS65 ICSP65 ICS80 ICSP80

www.karbonaudio.com

15823 Monte St, Unit 102
Sylmar, CA 91342

www.karbonaudio.com

LOUDSPEAKER SPECIFICATIONS

ICS65 ICSP65 ICS80 ICSP80

Impedance	8ohm	6ohm	8ohm	6ohm
Power Handling	25W/50W	35W/70W	35W/70W	45W/90W
Frequency Response	50Hz-20KHz	50Hz-20KHz	50Hz-20KHz	50Hz-20KHz
Sensitivity	87dB	88dB	87dB	87dB
Woofers	6.5" Injection	6.5" Carbon	8" Injection	8" Carbon
Tweeter	0.75" Silk	0.75" Titanium	1" Silk	1" Titanium
Cut Out Diameter	209MM	209MM	243.5MM	243.5MM
Grille Diameter	238MM	238MM	273MM	273MM
Mounting Depth	100MM	105MM	114MM	121MM

WARRANTY

3 YEARS LIMITED WARRANTY

Instructional Manual In-Ceiling Architectural Loudspeaker

ICS65 ICSP65 ICS80 ICSP80

BOX CONTENT

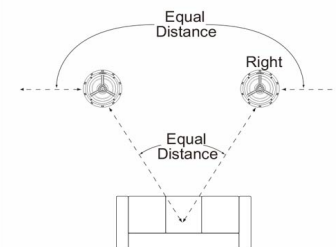
- 2 x Karbon Audio In-Ceiling Loudspeaker
- 2 x Grille
- 1 x Cut-Out Template
- 1 x Instruction Manual

LOUDSPEAKER PLACEMENT

Before installing your speakers, you should consider the placement carefully, taking into account the location of electrical, plumbing and other fixtures, as well as studs. Contact your dealer for assistance if you are not sure of the best locations in your particular environment to in install the speakers.

LOUDSPEAKER PLACEMENT FOR 2-CHANNEL STEREO

Ensure the distance between the left and right loudspeaker and the primary listening area is the same (or as close to the same distance as possible). The distance between each loudspeaker and its nearest side wall should also be as close to the same distance as possible. The distance from the primary listening area to the loudspeakers should ideally be slightly longer than the distance between both loudspeakers.

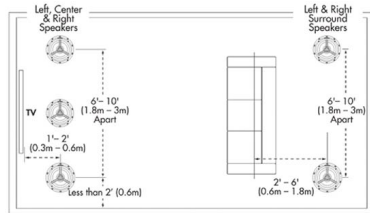


LOUDSPEAKER PLACEMENT FOR HOME THEATER

- Place the front left, center and front right loudspeakers centered 1 - 2 feet (0.3m - 0.6m) in front of the video display. The ideal distance from the front left to the front right loudspeaker is 6 - 10 feet (1.8m - 3m). The distance between both loudspeakers and their nearest side wall should not exceed 2 feet (0.6m).
- The primary listening area should be 4 - 10 feet (1.2m - 3m) away from the front loudspeakers.

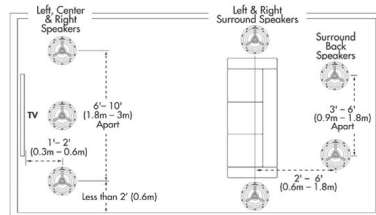
LOUDSPEAKER PLACEMENT FOR 5.1-CHANNEL SYSTEM

- Place the left and right surround speakers 2 - 6 feet (0.6m - 1.8m) behind the primary listening area. The distance between both loudspeakers should be 6 - 10 feet (1.8m - 3m).



LOUDSPEAKER PLACEMENT FOR 7.1-CHANNEL SYSTEM

- Place the left and right surround speakers directly to the sides of the primary listening area. The distance between both loudspeakers should be 6 - 10 feet (1.8m - 3m).
- Place the surround back speakers 2 - 6 feet (0.6m - 1.8m) behind the primary listening area. The distance between both loudspeakers should be 3 - 6 feet (0.9m - 1.8m).

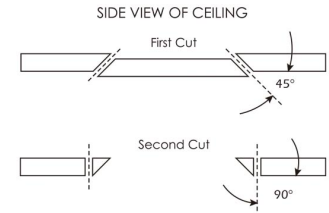


CUT-OUT

- It is highly recommended to perform an obstruction survey to be certain that there are no studs, conduit, pipes, heating, ducts or other similar obstacles before cutting out the hole for your in-ceiling loudspeaker.
- Use the cut-out template to mark the position of the loudspeaker.
- If you are not certain about any obstructions behind the loudspeaker position, you should start by cutting at a 45° angle to the surface material pointing inward towards the center of the hole (figure 4). Cutting the hole by this angle will make drywall repair much easier

as the cut-out-piece can be installed neatly back into place.

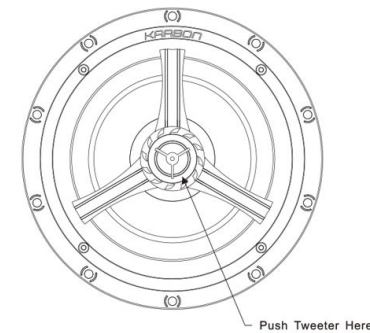
- Once you have determined that there are no obstructions in your target location, cut the finished hole at a 90° angle.



Caution: Loudspeaker components can get hot while performing at moderate to high volume levels. Maintain a minimum of 1" (25mm) clearance between loudspeaker components and plastic vapor barriers and/or any insulation material.

LOUDSPEAKER INSTALLATION

- Remove the grille.
- Connect the speaker cable to the amplifier. Make sure the connection is according to the polarity of your amplifier and the correct speaker channel.
- Insert the loudspeaker into the mounting cut-out and tighten the clamping screws.
- Adjust the direction of the tweeter to your primary listening area. Avoid touching the dome tweeter, as damage may occur.
- Install the grille back into place.



Caution: Over-tightening the clamping screws may warp the baffle, crack the ceiling or cause difficulty in aligning the grille.

PAINTING THE GRILLES

- We recommend painting your grilles prior to installation. If you decide to paint them in the future, it is best to remove them by simply detaching them from the loudspeaker.
- Do not paint the grilles while they are installed on the loudspeakers.
- Remove the cloth material from beneath the grille before painting. Once painted, place the cloth back to its position.
- Take care not to clog the holes of the grille while painting. Ideally use light spray painting.