

ICTS-6.2e and ICTS-8.2e Ceiling Speakers

TM

atlantic TECHNOLOGY

Installation Instructions

Thank you for purchasing Atlantic Technology speaker products. These high quality 2-way speakers solve myriad of surround sound and distributed audio installation problems. We work very hard to ensure that all of our speakers consistently deliver exceptional performance and value. We hope you enjoy them to their fullest. Please take a moment to read these instructions so you can get the most from your speakers.

Mounting Specifications

These speakers are intended for mounting in a ceiling, in material ranging from 0.5 inches to 1 inch thick. They require at least 4-3/8 inches for the ICTS-6.2e and 4-7/8 inches for the ICTS-8.2e clearance behind the front surface of the ceiling. The mounting opening for the ICTS-6.2e is 7-7/8 inches in diameter. The mounting opening for the ICTS-8.2e is 9-5/8 inches in diameter. These speakers will work equally as well in a wall as in a ceiling, however note that they require more mounting depth than is normally available in a 2x4 studded wall.

Locations

Generally, it's best to keep the speaker at least 24 inches away from any wall boundaries (ceiling/wall/corner). Placing any speaker in close proximity to other boundary surfaces will always "color" the sound that the speaker produces. Even speakers that incorporate frequency adjustments to compensate can only make small improvements to the detrimental effects of boundary reflections. The more directly under the speaker you are, the more high frequency information you will hear. Consider where the majority of the room's occupants will be most of the time. Then try to locate the speakers where the listeners will get a reasonable balance of sound from both speakers.

Unlike so many ceiling speakers, the ICTS-8.2e and ICTS-6.2e use very high quality component parts and sophisticated designs to deliver excellent sound quality; sound quality so good that it will surprise you.

*Model ICTS-8.2e,
ICTS-6.2e is similar*



New Construction and Retrofit Installations

Note: A new construction rough-in kit and back box kit are optionally available from Atlantic Technology. Please refer to the instructions included in those kits for their use. If the rough in kit has been used please go directly to Step 2 below.

Mounting Hole Specifications:

ICTS-6.2e: Diameter = 7-7/8 in., 200mm; Depth = 4-3/8 in., 112mm

ICTS-8.2e: Diameter = 9-5/8 in., 245mm; Depth = 4-7/8 in., 124mm

1 Cut an appropriately sized opening in the ceiling material. Be sure that the ceiling material can support the weight of the speaker. Also be sure that the sides of the opening are at least 1-1/2 inches away from any beams or studs within the cavity. If it is not, the rotating clamps will be restricted in their movement and may not clamp properly.

2 Be sure that all foreign material in the ceiling is kept out of the speaker assembly, particularly the back of the woofer cone. (There is a cloth shield on the rear of the woofer, but please use care anyway.) If the ceiling is void of insulation it will be beneficial to the performance of the speaker to install an Atlantic Technology foam Sound Damping Kit behind and around the assembly.

3 **IMPORTANT:** Use the high frequency level adjustment, located on the tweeter assembly, to increase (+) or decrease (-) the level of high frequency sound produced by the tweeter. These settings can easily be changed after the speaker is in stalled. See Figure 1.



Figure 1

4 Attach the previously installed audio feed wires to the speaker terminals. Simply remove 1/2 inch of insulation from the end of each input wire. Push down on the terminal connector and a large opening will appear in the shaft of the connector that is capable of holding up to 10 gauge wire. Insert the bare wire into the opening and release the terminal. Be sure to observe correct polarity, connecting the positive (+) leads to the red terminals and the negative (-) leads to the black terminals. Also be sure that no stray strands of wire touch across any terminals. See Figure 2.

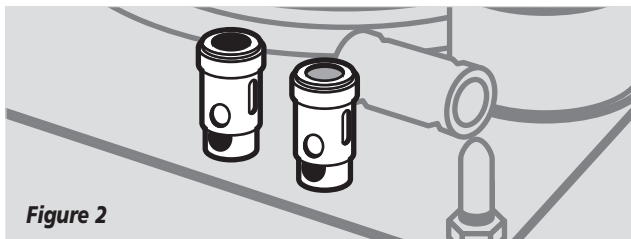


Figure 2

Specifications

	ICTS-6.2e	ICTS-8.2e
Frequency Response	55 – 20kHz, +/- 3dB	45 – 20kHz, +/-3dB
Sensitivity (1 watt/1 meter)	89dB	89dB
Impedance	8 Ω	8 Ω
Woofer type	6½" (165mm) Mica/Graphite loaded Polymer cone	8" (203mm) Mica/Graphite loaded Polymer cone
Tweeters	1" silk dome	1" silk dome
Weight	4.8 lbs.	5.25 lbs.

5 Check to ensure that the rotating clamps are "parked" and not sticking out over the edge of the assembly.

6 Push the speaker assembly straight up into the opening with the tweeters oriented as noted previously.

7 Tighten the mounting screws one at a time. As you tighten, the rotating clamps on the back of the assembly will turn and lower, until they contact the back of the ceiling and clamp the ceiling between themselves and the trim ring. See Figure 3.

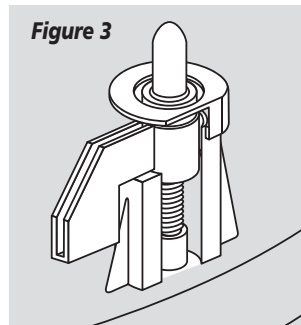
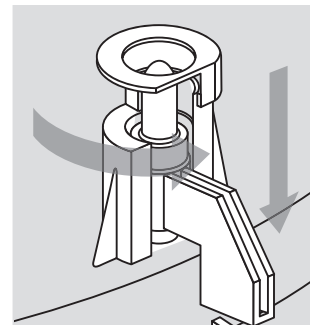


Figure 3



8 Snug all four mounting screws in this manner to make a firm seal with the ceiling. Be careful not to overtighten them.

9 Start the system and make sure the speakers are operating properly. If necessary, adjust the high frequency switch (on the tweeter assembly, under the grille) to get the most natural balance of sound throughout the listening area.

10 Install the grille by placing it into the recess and pushing it in gently.

Atlantic Technology
343 Vanderbilt Avenue Norwood, MA 02062
(781) 762-6300 www.atlantictechnology.com