

#### Introduction:

Our best in-ceiling speakers for music and movies

Simplified in-ceiling installation method with snap-fit grilles

Features a 14.5cm woofer and single tweeter; delivering deeper low notes for more dramatic movie sound effects and musical richness.

Experience excellent sound quality in your home and bathroom with TECH2O in-ceiling speaker. Our unique speakers are designed to deliver lifelike sound with more depth and impact than ever before. The speaker performance offers even distribution as well as being easy to install and flush-mountable.

#### Technical Specification:

Technical Specification	In-Ceiling 2 Way Speaker
Wattage:	80watts
Impedance	4 Ohms
Frequency Response	60 - 20,000 Hz
Sensitivity	90dB
Grill Diameter:	175.5mm
Speaker Depth	69mm
Cone Diameter	145mm
Ceiling Hole Size	140mm
Waterproof Rating	IP66
Colour	Artic White
Enclosure Material	UV Stabilised ABS Plastic
Grill Material	Stainless Steel
Speaker Cable Length	6 meters

#### Caution

Please read this installation guide completely before you start the installation process. Please also carefully consider your experience installing such items and if you have doubts about completing this installation, you should contact either the dealer you purchased the product from, an electrician, or a professional audio/video installer.

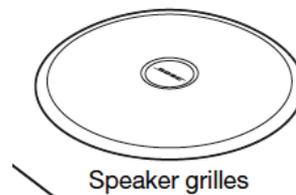
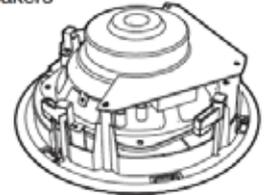
If any part of the speaker appears damaged, do not use. Notify your supplier immediately.

#### Unpacking Your Items

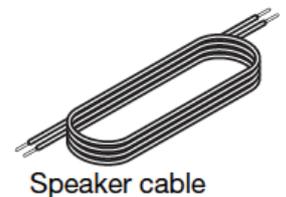
Carefully unpack the speakers. Check to be sure the carton includes all the parts shown below:

- > Speakers
- > Speaker Grill
- > Speaker Seal
- > Speaker Cable

Speakers



Speaker grilles



Speaker cable

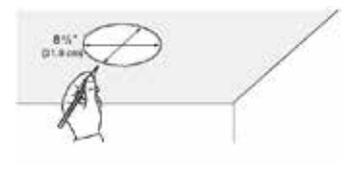
#### Installation Guide

##### Stage 1: Create a template and pilot hole

Create a template of the speaker and place on to the area where the speaker is being fitted. Draw around the template to create a guide for cutting.

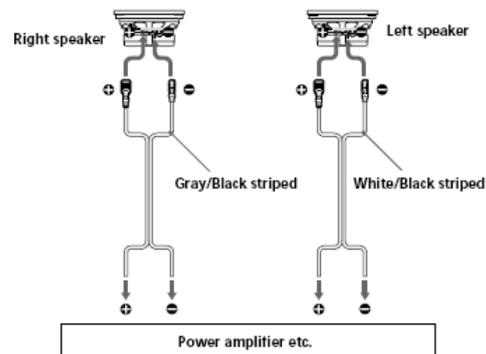
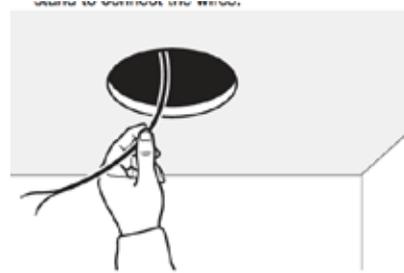
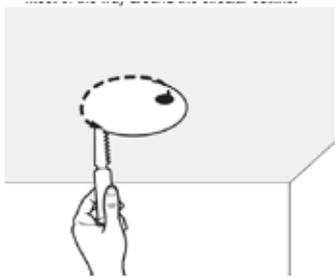
Ceiling hole size: 145mm

Drill a pilot hole inside the circle you have drawn. Choose a spot near the center or closer to the outside edge of the circle, depending on which will be easier when you begin to use your cutting implement.



### Stage 2: Cutting the speaker hole

Use a single sided saw / blade to cut out the ceiling material. Insert the tip of your saw / blade into the pilot hole and cut most of the way around the circular cutting line. Place one hand under the circle to brace it and complete cutting the hole.



### Stage 3: Getting the wire ready & connecting the speaker

When your speaker cable is within reach of the hole you have cut, follow the procedure below:

1. Push any insulation away from inside the speaker hole.
2. Be sure that all blown insulation is at least 4 to 6 inches (10 to 15cm) from the edges of the hole.
3. Locate and pull out at least 14 inches (36 cm) of your speaker cable. Allow enough cable for where you stand to connect the wires.
4. As you connect the wires, be careful to match the polarity of each wire to the proper terminal, as described below. An error here will adversely affect speaker performance.

> Choose the one wire on the cable end that has the larger connector (+). Simply push the connector on to the larger of the receivers on the underside of the speaker.

> Insert the other wire that has a smaller connector (-) onto the smaller receiver located on the underside of the speaker.

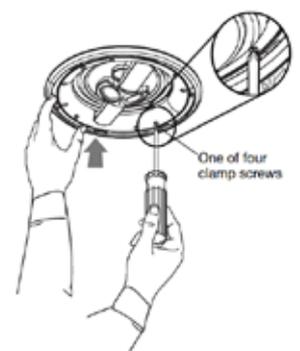
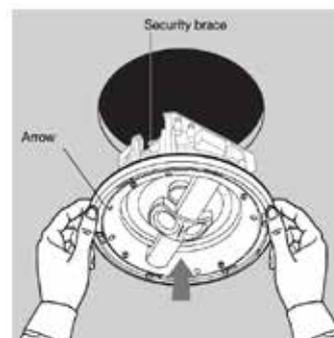
> Do not allow exposed wires to brush against each other. This could damage your speaker or your receiver/amplifier. Trim any excess wire and reinsert it as necessary.

### Stage 4: Securing the speaker

Offer the speaker up to the hole that's been created, making sure all cables are within the ceiling to avoid pinching the speaker cable.

You can use a Phillips-head screwdriver to tighten / secure the speaker firmly within the ceiling. We advise using between 6-8 medium sized screws to hold the speaker securely in place.

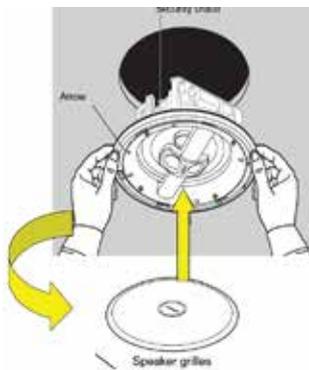
Tighten these screws firmly, but avoid using so much pressure that the screws compress the ceiling material. This can cause the material to crumble, creating an uneven surface with gaps between the speaker face and the ceiling.



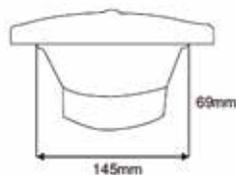
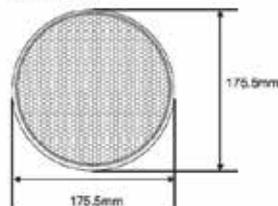
#### Stage 5: Attaching the grille

Once the speaker is securely fixed within the ceiling, offer the speaker grille up to the speaker and push in to the allotted groove that runs around the exterior of the speaker casing.

The speaker grille will simply snap in to place.



#### Dimensions:



#### WARNINGS:

Certain forms of insulation (such as horse hair plaster, newspaper, cellulose, or any blown-in materials) may pose a risk of ignition. Be sure to keep all insulation away from speakers in accordance with the installation instructions.

- Make sure the spot chosen is safe for cutting. Do not cut through surfaces that may have hazards such as electrical wiring, conduits, or plumbing concealed behind them. Follow all other safety precautions.
- If you believe there is asbestos insulation in the ceiling where you want to install a speaker, do not drill or cut there. Find a different ceiling area for the speakers instead.
- If there is another type of moveable insulation in the ceiling, you can proceed after reading these tips:
  - You may need to cut or push the insulation away before inserting the speaker.
  - Beware of hidden nails when reaching into the ceiling to remove insulation.
  - Wear gloves and protection for your mouth, nose, and eyes before handling insulation that contains fiberglass.
  - Be sure keep a 4-6 in. (10-15 cm) area around the speaker hole free from any types of insulation to maximize acoustic performance.