

IW650 / IW625

Inwall LCR Speakers

SPEAKER PLACEMENT

Inwall LCR Speakers can be used in any position of a home theater speaker system. A single Inwall LCR Speaker can be used for the front center channel, or a pair can be used for left and right in the front or rear of the system.

Using as a Center Channel Speaker

Inwall LCR Speakers have been designed to blend seamlessly with all Proficient wall and ceiling speakers. Install the Inwall LCR Speaker horizontally (for center channel applications) into the wall as close to the screen as possible. This most often means it will need to be installed just above or below the television. **(Diagram 1)**

Using as Front Left and Right Speakers

When using Inwall LCR Speakers for front left and right speakers, position them vertically with the tweeter towards the screen. **(Diagram 1)** Aligned with the center of the screen is optimal.

The speakers should be placed so that they form an equilateral triangle. **(Diagram 2)** If the speakers are positioned far away from the primary listening area, adjust the pivoting tweeters so they are pointed toward the primary listening area. **Note:** To avoid possible damage to the pivoting tweeters, read the section entitled "SPEAKER ADJUSTMENTS" in this manual prior to performing the tweeter adjustment.

INSTALLATION CONSIDERATIONS

Before installing your speakers into the wall, you should consider the placement carefully, taking into account the location of electrical, plumbing and other fixtures.

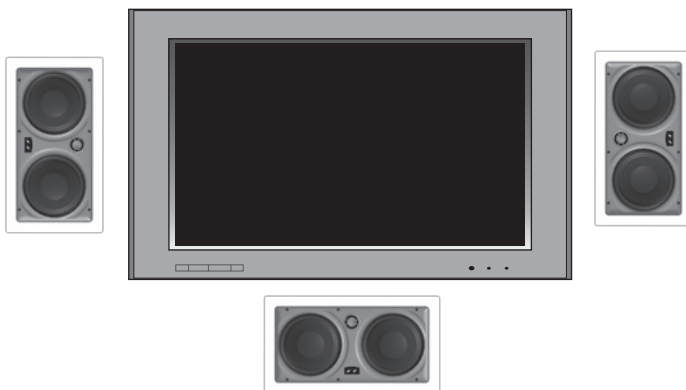


Diagram 1

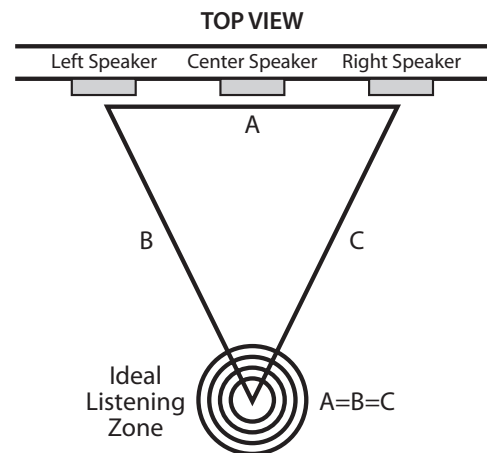


Diagram 2

MOUNTING SURFACE PREPARATION

New Construction - Unfinished Walls

A Pre-Construction Bracket, available from your Proficient dealer, may be installed prior to drywall application across studs (up to 16" on-center) where a speaker will be located. After the hole is cut and the drywall is installed, the speakers are then easily installed following the instructions for mounting in "Finished Walls" below.

Finished Walls

Prior to the actual installation of the speakers, it will be necessary to run 2-conductor speaker wire to the speaker locations. After the speaker wire has been properly installed, you are ready to mount the speakers. Following the simple steps listed below will result in a professional looking installation:

1. Determine the best area to mount your speakers. This area of the wall should be free of obstructions such as electrical conduit, HVAC ducts, or water lines. This can best be determined by noting the placement of fixtures and gaining access to an attic or crawl space for further analysis of the location of such obstacles.
2. Find the studs nearest the desired speaker mounting location. We highly recommend using a good stud-finder tool for this procedure. If you are lining up the speakers to some other object or molding in the room, make sure you consider the size of the baffle flange which extends beyond the mounting hole on all four sides.

3. Mark the hole. A template for setting the hole is provided in the box (along with two paint mask inserts for use when painting). Position the template in the desired position and pencil an outline on the wall.
4. Cutting the hole. **CAUTION: This is the most important part of the entire installation.** If you are not certain whether any obstructions exist behind the desired mounting area, you should start by cutting a small hole in the center of your penciled mounting hole with a drywall saw. Cut at a 45° angle towards the inside of the hole (**Diagram 3**). Cutting the small hole at this angle will make drywall repair much easier as the piece cut out can be installed neatly back into the hole if required. Once you have determined there aren't any obstructions in your desired mounting location, start cutting the finished hole at a 90° angle to the wall surface.

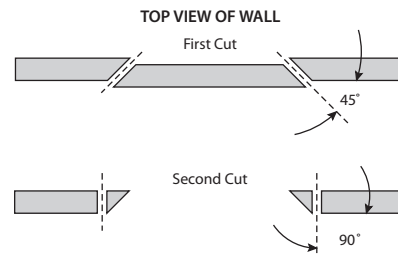


Diagram 3

5. Add insulation. If the area in the wall is not already insulated, add an adequate amount of insulation material to fill the cavity. If the insulation material used is faced with foil or paper, position the foil or paper away from the speaker.

SPEAKER INSTALLATION

The integrated six foot mounting system incorporated into each Inwall LCR Speaker allows for a quick installation by following these easy steps:

1. Remove the grille. It may be necessary to push one or two of the mounting screws and its attached foot towards the baffle and against the inside surface of the grille to force the grille out of its retaining groove.
2. Attach the speaker wire (observing the proper polarity with your amplifier, + to + and - to -). Make sure the left channel of the amplifier is connected to the left speaker, and the right channel is connected to the right speaker.
3. Make sure the mounting feet are turned inward to clear the opening, and insert the speaker into the wall. **Note:** The flange of the speaker is designed to flex and conform to any small imperfections in the wall's surface. Tighten the six screws in the front of the baffle only enough to make the flange become snug against the wall. As you tighten the screws, the feet will automatically flip into an outward position (**Diagram 4**), thereby clamping the drywall between the feet and the flange. **CAUTION: Over tightening may torque the baffle, crack the wall, cause the white bezel to distort, and make the grille difficult to seat into the grille grooves.**
4. Push the grille firmly into the slot in the speaker baffle.

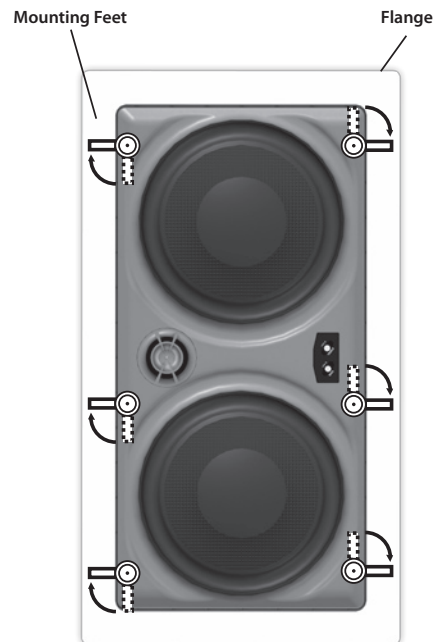


Diagram 4

SPEAKER ADJUSTMENTS

Pivoting Tweeter Adjustment

Your Inwall LCR Speaker comes with the tweeter facing straight out from the baffle. This will result in the overall smoothest response. However, depending on your particular primary area, room acoustics, ceiling height, or personal preference, you may find the sound more pleasing by pointing the tweeters in a particular direction. If additional treble is desired in the primary listening area, point the tweeter towards that area. Push gently at the edge of the tweeter to point it in the desired direction. **(Diagram 5) CAUTION: Avoid touching the tweeter dome as damage WILL occur on metal dome tweeters.**

For home theater use, we recommend the following tips:

- If the Inwall LCR Speaker is being used as a main front channel, the tweeter should be angled towards the listener.
- If the Inwall LCR Speaker is being used for a rear surround channel, you may wish to pivot the tweeter away from the listener to achieve a more diffused sound.

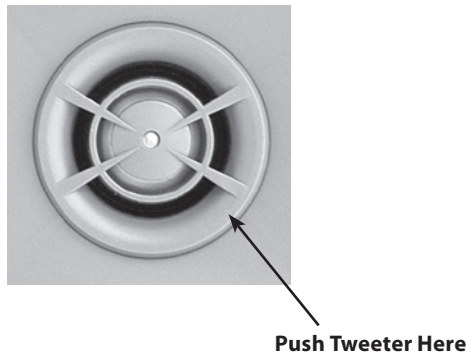


Diagram 5

Treble Adjustment:

The switch labeled TREBLE allows for $\pm 3\text{dB}$ of treble adjustment. Your speakers were shipped with the treble switch in the middle position, providing the most linear frequency response. If you desire more treble, move the switch to the "+" position, and the tweeter will play 3dB higher. If you desire less treble, move the switch to the "-" position, and the tweeter will play 3dB lower. To return to the neutral setting, push the switch back to the middle position. **(See Diagram 6)**

Bass Adjustment:

The switch labeled BASS allows for $\pm 3\text{dB}$ of bass adjustment. Your speakers were shipped with the bass set to the middle position. If you desire more bass, push the switch to the "+" position and the bass will play 3dB higher. If you desire less bass, push the switch to the "-" position and the bass will play 3dB lower. To return to the neutral setting, push the switch back to the middle position. **(See Diagram 6)**

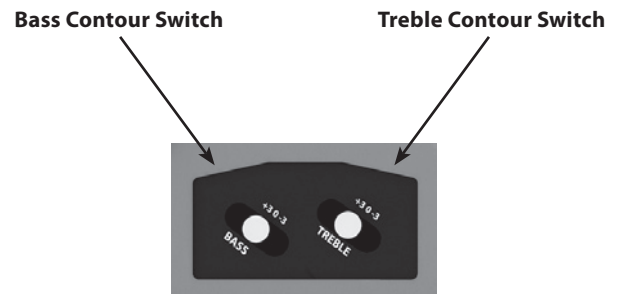


Diagram 6

PAINTING THE SPEAKERS

If you plan to paint your speakers, we recommend that it be done prior to installation. If you plan to paint your speakers sometime in the future, it is best to remove them by simply reversing the steps for "SPEAKER INSTALLATION" on page 2.

If it is necessary to paint the speakers when they are in the wall, the paint masks provided in the carton must be installed between the grille and flange while they are being painted with the wall.

Before painting your speakers, remove the white acoustic blanket under the grilles. Once the speaker grille has been painted, return the acoustic blanket back into place.

Great care should be taken not to clog the holes of the grille, as this will reduce the sound quality of the speakers.

Proficient recommends only light spray painting using 5 parts thinning agent to 1 part paint.

SPEAKER SPECIFICATIONS

	IW650	IW625
Speaker Type:	2-Way Inwall LCR	2-Way Inwall LCR
Woofers:	Two 6½" Kevlar® Cones with Butyl Rubber Surrounds	Two 6½" Graphite Cones with Butyl Rubber Surrounds
Tweeter:	Pivoting 1" Aluminum Dome	Pivoting 1" Soft Dome
Impedance:	8 Ω	8 Ω
Sensitivity:	90dB 1W/1m	90dB 1W/1m
Contour Switches:	Front-Mounted 3-Position ±3dB Bass & Treble Switches	Front-Mounted 3-Position ±3dB Bass & Treble Switches
Frequency Response:	50Hz - 20kHz	55Hz - 20kHz
Power Handling:	150 watt	125 watts
Dimensions (H x W x D):	9" x 16⅛" x 3"	9" x 16⅛" x 3"
Wall Cut Out (H x W):	7½" x 14½"	7½" x 14½"

Features and specifications are subject to change without notice.

LIMITED TEN-YEAR WARRANTY

Proficient Audio Systems ("Proficient") warrants to the original retail purchaser only ("you") that this product will be free from defects in materials and workmanship for a period of ten years (the "Warranty Period"), subject to the limitations and exclusions set out in this Limited Warranty. This warranty is not transferable to subsequent owners of the product. If you discover a defect in material or workmanship within the Warranty Period, you can obtain warranty service by contacting Proficient during the Warranty Period at 877.888.9004 or techsupport@proficientaudio.com or by sending the product to Proficient at 940 Columbia Avenue, Riverside, CA 92507 or to the dealer from whom you purchased the product. Defective products must be shipped, prepaid and insured, together with proof of purchase. Warranty service requests made without proof of date of purchase will be denied. Freight collect shipments will be refused. It is preferable to ship this product in the original shipping container to lessen the chance of transit damage. In any case, the risk of loss or damage in transit is to be borne by the purchaser.

If, upon examination by Proficient or its authorized dealer, it is determined that the unit is in fact defective, Proficient will, at its option:

- Repair or replace the product at no additional charge; or
- If the model is no longer available and can not be repaired effectively, replace the unit with a current model of equal or greater value. In some cases where a new model is substituted, a modification to the mounting surface may be required. If mounting surface modification is required, Proficient assumes no responsibility or liability for such modification.

Proficient will bear the cost of returning the repaired or replaced product to you, freight prepaid. All replaced parts and product become the property of Proficient Audio Systems. The foregoing is your **sole and exclusive** remedy for breach of warranty. If the product is not found to be defective, Proficient will contact you to arrange for return of the product to you, at your expense.

For technical inquiries please call 877.888.9004 or email us at techsupport@proficientaudio.com. We are available to assist you every weekday, except holidays, between the hours of 7:00 a.m. and 5:00 p.m. PST.



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EXCLUSIONS:

- This Warranty does not include service or parts to repair damage caused by accident, disaster, misuse, abuse, negligence, inadequate packing or shipping procedures, voltage inputs in excess of the rated maximum of the unit, or service, repair or modification of the product by unauthorized dealers. This Warranty also excludes normal cosmetic deterioration caused by environmental conditions.
- This Warranty will be void if:
 - the Serial Number on the product has been removed, tampered with or defaced.
 - the product was not purchased from an authorized dealer.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESSED AND IMPLIED WARRANTIES. PROFICIENT EXPRESSLY DISCLAIMS ALL SUCH OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. In no event will Proficient be liable for any incidental or consequential damages arising out of the use or inability to use the product, even if Proficient has been advised of the possibility of such damages, or for any claim by any other party. Notwithstanding the above, if you qualify as a "consumer" under the Magnuson-Moss Warranty Act, then you may be entitled to any implied warranties allowed by law for the Warranty Period. Further, some states do not allow limitations on how long an implied Limited Warranty lasts or allow the exclusion or limitation of consequential damages, so such limitations may not apply to you.

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