



DC8.5 DC6.0

Installer's Guide

Dual Channel In-Ceiling Speakers

from EMPHASYS are designed to deliver crisp, full-range sound for today's home theater and distributed audio environments, where digital media places extreme demands on a speaker's capability. But while ordinary speakers must be used in matching pairs for correct stereo reproduction, the Dual Channel In-Ceiling Series models deliver awesome stereo sound from a single speaker. EMPHASYS engineering has combined a dual voice coil woofer with twin tweeters, and as a result the Dual Channel In-Ceiling models bring high-quality stereo audio to even the smallest room.

Positioning the Speakers

It is best, with the Dual Channel In-Ceiling Speaker or any other unit, to position it so that it aims directly toward the listening position. This will ensure an accurate stereo image and help minimize the creation of excessive sound reflections.

If the listening room is very large or the ceiling is high, the DC8.5 — with its 8" aluminum woofer and greater power handling — will be preferable to the DC6.0.



Speaker Adjustments

Creating a Zone for Optimized Listening

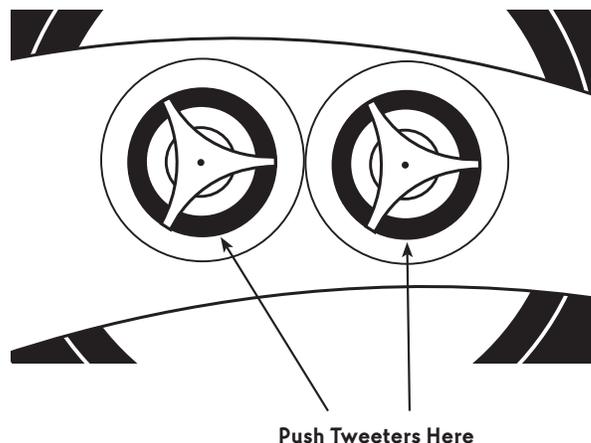
The Dual Channel In-Ceiling speakers should be placed so that they project, as much as possible, toward the listening position. This will ensure an accurate stereo image and help minimize the creation of excessive sound reflections.

If the speakers are to be mounted in a very high ceiling, the pivoting tweeters of the DC8.5 should be aimed directly toward the listening position. (See Diagram 1)

In other cases it might be preferable to aim the tweeters slightly outward, away from the listening position.

CAUTION: The tweeter dome, whether aluminum or silk, can be damaged through direct contact with fingers or objects. Please be careful when installing and adjusting the speaker.

Diagram 1:
Tweeters



Preparing the Surface for Mounting

Precautions for Installation

Careful consideration should be given to the possible presence of electrical conduits, piping, HVAC duct work and other elements in the ceiling before the Dual Channel In-Ceiling speaker is installed. If there is any doubt regarding the most acceptable locations for the speakers, please consult EMPHASYS Technical Support or the dealer.

New Construction: Unfinished Ceiling

A new construction bracket, available from your dealer, can be installed prior to drywall application across joists (up to 24" on-center) where a speaker will be located. After the hole is cut and the drywall is installed, the speaker can be easily installed following the instructions for mounting in "Finished Ceiling" below.

Note: If the speaker is to be mounted more than 24" on-center, a special "extra-long wing" is available from your dealer.

Finished Ceiling

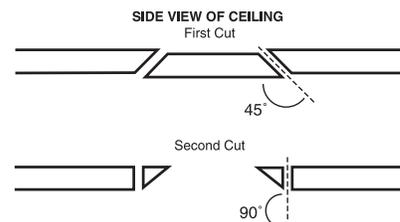
Prior to the actual installation of the speakers, it will be necessary to run speaker wire to the locations in which they'll be mounted. See your dealer for more information. Then, with the wire in place, the speakers can be mounted. To ensure a professional-looking result, follow the simple steps described below:

1. Choose the general location for the installation of each speaker, being certain that these areas present no obstructions such as electrical conduit, HVAC duct work or water lines.
2. Find the studs nearest the desired location for the speaker. EMPHASYS recommends the use of a good stud finder for this procedure. If you are lining up the speakers to some other object or molding in the room, be sure to allow for the size of the baffle, which extends beyond the mounting hole on all four sides of the Dual Channel In-Ceiling speaker.

3. Mark the hole. A template for setting the hole is provided in the box. Position the template in the desired position and outline it on the ceiling using a pencil.

4. Cut the hole. **CAUTION: This is the most important part of the installation.** If you aren't certain whether there are any obstructions in the desired mounting area, use a drywall saw to cut a small hole at the center of the spot you've outlined. Cut at a 45° angle toward the inside of the hole. (See Diagram 2)

Diagram 2:
Ceiling Cutout



You can use the cutout piece to fill the hole again if obstructions are found. Once the mounting location is deemed to be free of obstructions, cut the outline at a 90° angle relative to the surface of the ceiling.

5. If the area in the ceiling isn't already insulated, add insulation material sufficient to fill the cavity. If the insulation material used is faced with foil or paper, position the foil or paper away from the speaker.



CAUTION: Speaker components can get hot while playing music at moderate to high volume levels. There should be nothing at all touching the speaker. Material in proximity to the back of the speaker must have at a minimum 1" or 26mm clearance for non-flammable materials and more for flammable materials like plastic vapor barriers.

Installing the Speakers

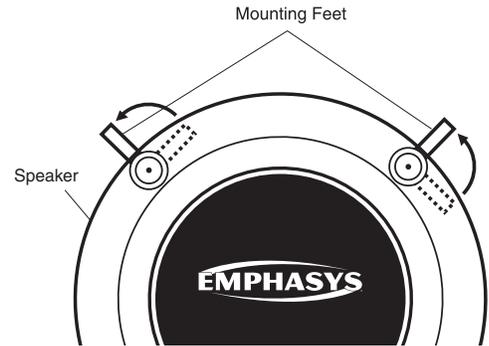
Dual Channel In-Ceiling Speakers feature a mounting system with four swiveling feet for quick, secure installation. Use the following steps:

1. Remove the grille from the speaker baffle.
2. Attach the speaker wire (observing the proper polarity with your amplifier, matching positive (**red**) to positive and negative (**black**) to negative). Either channel may be attached to either terminal set, however, be sure that polarity (+ and -) is correct on each channel or the performance of the speaker will be seriously affected, as one channel will cancel out the other.
3. Be sure the mounting feet are turned inward to clear the opening, and then insert the speaker into the ceiling. Position the speaker into the hole. **Note: The speaker is designed to conform to minor imperfections in the ceiling's surface.** Tighten the four screws on the front of the baffle only so much that the speaker becomes snug against the ceiling. As you tighten the screws, the feet will flip into an outward position (**see Diagram 3**), clamping the drywall between the feet and the speaker.

CAUTION: Excessive tightening may torque the baffle, crack the ceiling or cause difficulty in aligning the grille.

4. Reattach the grille onto the speaker baffle.

Diagram 3:
Mounting Feet



Adjusting the Frequency Response for DC8.5

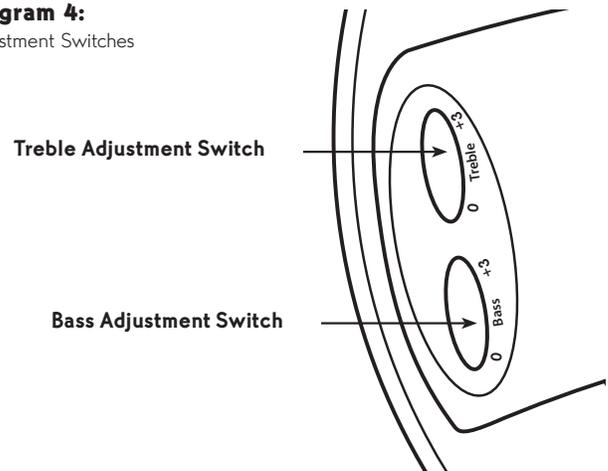
Treble Adjustment

The Treble switch allows +3dB of adjustment from the "0" position, where the most linear frequency response is maintained. If more treble is desired, simply move the switch to the "+3" position. To return to the neutral setting, move the switch back to the "0" position. The Treble switch can be adjusted whenever desired. (See Diagram 4)

Bass Adjustment

The Bass switch provides +3dB of bass adjustment from the "0" position, where the flattest bass frequency response is maintained. For extra bass, move the switch to the "+3" position. To return to the neutral setting, move the switch back to the "0" position. As with treble adjustment, the Bass switch can be moved whenever desired. (See Diagram 4)

Diagram 4:
Adjustment Switches



Painting the Grille

We recommend painting your grille prior to installation. If you decide to paint it in the future, it is best to remove the grille by simply detaching it from the speaker. Do not paint the grille while it's installed on the speaker.

Before painting, be sure to remove the cloth material from beneath the grille. Once painted, place the cloth back to its position beneath the grille.

When painting, be careful not to clog the holes of the grille. The sound of the speaker will be dramatically reduced if the perforations in the grille are covered in paint.

EMPHASYS recommends only light spray painting using five parts thinning agent to one part paint.

Features & Specs

	DC8.5	DC6.0
Woofers:	8" Dual Voice Coil Aluminum Cone	6½" Dual Voice Coil Polypropylene Cone
Tweeters:	Two 1" Pivoting Aluminum Dome	Two ½" Fixed Hard Dome
Switches:	+3dB Bass & Treble	N/A
Power Handling:	150 Watts	75 Watts
Frequency Response:	28Hz - 20kHz	36Hz - 20kHz
Impedance:	8Ω	8Ω
Sensitivity:	92dB 1W/1m	92dB 1W/1m
Grille:	Thin-Bezel held by Neo Magnets	Thin-Bezel held by Neo Magnets
Dimensions:	Dia 11⅛" x Depth 4¼"	Dia 9¼" x Depth 3⅝"
Cut Out Diameter:	9¾"	8¼"

Limited Ten-Year Warranty

EMPHASYS 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 Emphasys during the Warranty Period at 800.472.5555 or by sending the product to Core Brands at 12471 E. Riverside Drive, Eastvale, CA 91752 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 Emphasys it is determined that the unit is in fact defective, Emphasys will, at its option:

- Repair or replace the product at no additional charge; or
- If the model is no longer available and cannot 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, Emphasys assumes no responsibility or liability for such modification.

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

EXCLUSIONS:

- This Warranty does not include service or parts to repair damage caused by accident, disaster, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, 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. EMPHASYS 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 Emphasys be liable for any incidental or consequential damages arising out of the use or inability to use the product, even if Emphasys 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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To insure that consumers obtain quality pre-sale and after-sale support and service, Emphasys products are sold exclusively through authorized dealers. **Emphasys products are not sold online** by Emphasys or its authorized dealers, and this warranty is **VOID** if the products have been purchased from any internet reseller. If you have any questions about your reseller, please call Emphasys at 800.472.5555.

Technical Support

The Technical Support hotline is ready with answers to questions regarding this and other products from EMPHASYS. Simply call 800.472.5555. We are available to assist you every weekday, except holidays, between the hours of 7:00 a.m. and 5:00 p.m. PST.

EMPHASYS

1800 South McDowell Blvd · Petaluma, CA 94954
800.472.5555 · Fax 707.283.5901 · emphasysav.com

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