HT60ic HT80ic owner's manual



analog and digital systems

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introduction

Thank you for purchasing an a/d/s/ in-ceiling speaker system. Please read the following instructions carefully. Following these instructions will ensure that your system will deliver the best possible performance.

cautions

To reduce risk of injury because of an accident, be careful when working on a ladder or other high places.

about this manual

In-ceiling speakers can be used with many different receivers/televisions or amplifiers. They are designed to be powered by an amplifier with a minimum of 20 watts of power.

features

tweeter

The HT series in-ceiling tweeters incorporate a 1" soft dome gimbal tweeter, Ferrofluid™ cooled and damped voice coils.

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tweeter protection

A solid state device reduces power to the tweeter when the loudspeaker is operated at unsafe power levels. It resets automatically when power is reduced to a safe level. Note: the tweeter protector provides a significant level of protection. However it does not guarantee that the tweeter cannot be damaged. Always be careful when operating the speakers at a high volume level.

tweeter attenuation switch

A 3-position switch located on the tweeter plate serves as a high frequency contour control. The mid position offers a "normal" response suitable for most applications. The positive (+) position provides the most output and is recommended for off-axis listening or if the speakers are mounted very high. The negative (-) position provides the least and is recommended for reflective "bright" rooms. The mid position is the best starting point. Due to room acoustics and/or personal preference, you may prefer either of the other positions. Be sure to try all of these positions and decide on your preference before installing the grills. If you find it necessary to re-adjust the tweeter levels after the grills have been installed, please follow the removing the grille section on page 6.

woofer

The high-excursion woofer employs a barium ferrite magnet structure for well damped, extended bass and high efficiency.

pre-wire connector

Gold spring speaker wire connectors are provided to facilitate simple, painless pre-wiring and installation. Just plug and play.

installation precautions and tips

Please read these instructions completely for the best enjoyment of your Custom Series speakers.

- When you cut into the ceiling to install the speaker, do not cut through the facing or insulation that
 may be above the ceiling. This facing is a moisture barrier. Use duct tape or wide vinyl tape to seal
 any cuts.
- Keep debris and loose material away from the installation location. Do not allow debris to get in
 the openings of the woofer basket. Debris and loose material can cause buzzing or rattling, and can
 damage the woofer cone. Install plastic or fiberglass screening above the speaker to keep debris
 away. Handle the speaker carefully.
- Do not let anything touch the speaker cone or dome. Do not clean the speaker with paint thinner or any solvents.
- Consider the services of a professional custom installer. If you have any doubts about your own abilities, it is better not to risk damaging your walls or ceilings, electrical wiring, ventilation ducts or plumbing.
- Work with good quality, correct tools. This will save you time and assure superior results.
- Allow sufficient clearance.
- When using speakers outdoors, locations should be sheltered from direct sunlight, rain or snow.
 Direct exposure will shorten product life.
- Combined impedance for speakers connected to each channel must be at least 4 ohm. This is the minimum impedance tolerated by most amplifiers. Check with your dealer before wiring multiple speaker pairs.



general mounting suggestions

Avoid placing the speaker within two feet (0.6 meters) of a corner. The acoustic reflections from surfaces near the speakers can detract from the sound quality. Do not place the speaker behind heavy fabrics; if you cannot see through a fabric, you cannot hear through it.

The ceiling speakers are designed for "infinite baffle" operation. The area behind the speaker installation should be at least one-half cubic foot in volume to ensure proper performance. If the area is too small it will limit bass response and cause a peak in the mid-bass range.

The panel on which the speaker is mounted must be rigid. There must not be any air leaks between the area behind the speaker and the listening area. Mounting the speaker on a panel of a suspended ceiling will adversely affect its performance.

prewiring

- Check local building and electrical codes for compliance of the speaker wire.
- Use stranded wire of at least 16 gauge; for runs over 100 feet, it is preferable to use 14 gauge wire.
- Use only insulated staples or nylon tie straps to secure wiring within the wall to avoid shorts.
- Do not stretch the wire as it is being routed. This could create future (and costly) problems.
- Leave about 2-3 feet of free wire at both ends. Cutting excess wire is better than splicing.
- Always "home run" wires: run a continuous wire from each speaker directly to the source location.
 Do not connect speakers together any other way for easier diagnosis of faulty wire or speaker problems.
- Wire speakers in phase with the same polarity. Attach positive (+/red) and negative (-/black) terminals
 consistently.
- Combined impedance for speakers connected to each channel must be at least 4 ohm. This is the minimum impedance tolerated by most amplifiers. Check with your dealer before wiring.

preparing the wall or ceiling cutout

Confirm there is at least 1" between the final cutout and nearby studs or joints for positioning mounting hardware. Temporarily fasten the stiff paper template (supplied) to the wall with thumbtacks. Carefully trace around the perimeter with a pencil. Before making the final cutout of the entire hole, first make a small 4-inch"test" cutout in the center of your penciled outline. Reach your hand inside to verify that studs are outside the outline. This is an important step, since stud finders are not infallible.

To cut the actual hole, first score wallboard with a sharp knife; then use a keyhole saw to complete the cut. Remove remaining debris from the edges. Hold the speaker up to the cutout to make sure it inserts easily without forcing.

At this point, it is a good idea to secure the speaker wire to a stud near the cutout so its own weight will not tug on the terminals of the speaker after it is connected. This will also prevent you from "losing" the wire in the ceiling. Before attaching the wire, make sure the speaker wire runs through, not around, the metal mounting bracket.

installation preparation

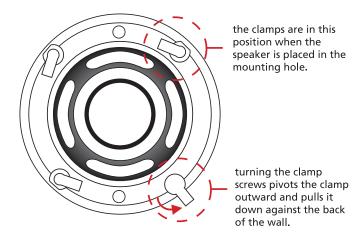
Use the supplied template to outline the mounting hole. Cut the mounting hole and remove any debris from the area. Take the necessary steps to keep debris from falling into the back of the speaker.

Route the wires from the amplifier to the speaker installation location. Strip about 1/2" of the insulation from the wire conductors. Twist the wire strands of the conductors into neat bundles. Insert the wires into the provided gold spring connectors to secure the wires.

final installation

The speaker is held in place with four mounting clamps that are part of the assembly. When shipped from the factory the clamps are pivoted so they will fit into the mounting hole. When the mounting hole clamp screws are turned, the clamps pivot outward and are then drawn downward until they press against the back of the mounting surface.

Insert the speaker/mounting bezel assembly into the mounting hole. Hold the speaker in place in the mounting hole and evenly tighten the four mounting screws to draw the mounting brackets against the backside of the wall. Gradually tighten the screws, moving from one to another, until the speaker is firmly clamped in place.



custom painting

- Paint the speaker frame and grill before mounting to the wall; paint grill and frame separately.
- Before painting, mask the recessed area of the speaker to completely protect the speaker drivers.
- After painting the grill, gently blow through its perforated holes to prevent paint clogging.

operation

checking the system

Listen carefully to each speaker. If you hear buzzing or rattling noises, remove the speaker and check for a speaker wire or other objects touching the speaker assembly. Adjust the tweeter level and aim the tweeter for the desired effect. When you are satisfied with the installation press the grills into place.

tweeter protector

If a speaker sounds "dull", or "lacks "brilliance", you may have activated the tweeter protector. If high power operation causes the tweeter to stop playing, turn down the volume control until normal sound resumes.

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specifications

	HT60ic	HT80ic
frequency response (Hz)	65-20 kHz	58-20 kHz
impedance	4 ohm	4 ohm
sensitivity 1W/1M (dB)	88 dB	88 dB
max bezel diameter	9-1/4" (23.5 cm)	10-7/8" (27.6 cm)
mounting hole	7-11/16" (19.5 cm)	9-7/16" (24.0 cm)
rear clearance	3-1/2" (8.9 cm)	4-1/8" (10.5 cm)
recommended power	20-80 watts	20-80 watts
woofer	6-1/2" (16.5 cm)	8" (20.3 cm)
tweeter	1" (25 mm) dome	1" (25 mm) dome

(Specifications subject to change without notice)

warranty information

LIMITED TWO YEAR CONSUMER WARRANTY

Directed Electronics, Inc. promises to the original purchaser, to replace this product should it prove to be defective in workmanship or material under normal use, for a period of two years from the date of purchase from the dealer as indicated by the date code marking of the product **PROVIDED** the product was installed by an authorized Directed dealer. During this two-year period, there will be no charge for this replacement **PROVIDED** the unit is returned to Directed, shipping pre-paid. If the unit is installed by anyone other than an authorized Directed dealer, the warranty period will be one year from the date of purchase by the dealer as indicated by the date code marking of the product. This warranty is nontransferable and does not apply to any unit that has been modified or used in a manner contrary to its intended purpose, and does not cover damage to the unit caused by installation or removal of the unit. During this one-year period, there will be no charge for this replacement **PROVIDED** the unit is returned to Directed, shipping pre-paid. This warranty is void if the product has been damaged by accident or unreasonable use, neglect, improper service or other causes not arising out of defects in materials or construction. Units which are found to be damaged by abuse resulting in thermally damaged voice coils are not covered by this warranty but may be replaced at the absolute/sole discretion of Directed. ALL WARRANTIES INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY ARE EXPRESSLY EXCLUDED TO THE MAXIMUM EXTENT ALLOWED BY LAW, AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT. DIRECTED HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. Unit must be returned to Directed, postage pre-paid, with bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number, and address, authorized dealer's name and address, and product description. Note: This warranty does not cover labor costs for the removal and reinstallation of the unit. IN ORDER FOR THIS WARRANTY TO BE VALID, YOUR UNIT MUST BE SHIPPED WITH PROOF OF INSTALLATION BY AN AUTHORIZED DIRECTED DEALER. ALL UNITS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF DIRECTED DEALER INSTALLATION WILL BE COVERED BY THE LIMITED 1 YEAR PARTS AND LABOR WARRANTY. Note: This warranty does not cover labor costs for the removal and reinstallation of the unit. BY PURCHASING THIS PRODUCT, THE CONSUMER AGREES AND CONSENTS THAT ALL DISPUTES BETWEEN THE CONSUMER AND DIRECTED SHALL BE RESOLVED IN ACCORDANCE WITH CALIFORNIA LAWS IN SAN DIEGO COUNTY, CALIFORNIA.

declaration of conformity

manufacturer name: Directed Electronics Inc.
manufacturer address: One Viper Way
Vista, California 92081

declares, that the product:

product name: HT60ic HT80ic

THOUL

conforms to the following standards:

EN55013 EN55020









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