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Acoustic Audio by Goldwood HD-800

Acoustic Audio by Goldwood HD-800 In-Wall Speaker System Instruction Manual

MODEL: HD-800

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Acoustic Audio by Goldwood HD-800 In-Wall Speaker System. Please read this manual thoroughly before beginning installation to ensure proper setup and optimal performance.

The HD-800 speakers are designed for flush-mount installation in walls, offering wide sound dispersion and seamless integration into home audio systems.



Image 1.1: Acoustic Audio HD-800 In-Wall Speaker System (4 Pair Pack).

What's in the Box:

- 8 Flush Mount Passive Speakers with Removable Grilles
- Cut-Out Templates
- Instruction Manual (this document)

2. Safety Information

Please observe the following safety precautions to prevent damage to the speakers or injury to yourself:

- **Read all instructions:** Before installation and use, read and understand all safety and operating instructions.
- **Retain instructions:** Keep this manual for future reference.
- **Heed warnings:** Follow all warnings on the product and in the operating instructions.
- **Installation:** Ensure proper installation by a qualified professional if you are unsure about electrical wiring or structural integrity.
- **Power:** Do not exceed the recommended power handling of 350 watts per channel. Overpowering can damage the speakers.
- **Wiring:** Use only CL3 rated in-wall speaker wire for permanent installations to comply with building codes and safety standards.
- **Moisture:** Do not expose speakers to moisture or extreme temperatures.
- **Cleaning:** Disconnect power before cleaning. Use a dry cloth only.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

3. Setup and Installation

3.1 Planning Your Installation

Careful planning is essential for optimal sound performance and ease of installation. Consider the following:

- **Speaker Placement:** For home theater surround sound, refer to standard speaker placement guidelines (e.g., Dolby Atmos, DTS:X) for optimal imaging and immersion. For whole-house audio, consider even distribution for consistent sound levels.
- **Wall Structure:** Ensure the chosen wall locations are free of electrical wiring, plumbing, and structural elements (studs, joists). Use a stud finder and inspect the area thoroughly.
- **Wiring Paths:** Plan the route for your speaker wires from your amplifier/receiver to each speaker location. Ensure wires can be run safely and discreetly within the wall.

3.2 Tools Required

- Pencil
- Tape Measure
- Stud Finder
- Utility Knife or Drywall Saw
- Wire Strippers
- Screwdriver (Phillips head)
- CL3 Rated Speaker Wire

3.3 Installation Steps

1. Prepare the Opening:

Using the provided cutout template, carefully trace the outline onto the desired wall location. Ensure the area is clear of obstructions. Use a utility knife or drywall saw to cut along the traced line. The required rectangular speaker hole size is 8.75 inches x 12.66 inches (22.2 cm x 32.2 cm).



Image 3.1: Cutout Template and Instruction Manual.

2. Run Speaker Wire:

Route CL3 rated speaker wire from your amplifier/receiver to the cutout opening. Leave enough slack to comfortably connect to the speaker terminals. Strip approximately 1/2 inch of insulation from the ends of the speaker wire.

3. Connect Speaker Wires:

Connect the stripped speaker wires to the spring-loaded raw wire connections on the back of the speaker. Ensure correct polarity: positive (+) to positive (+) and negative (-) to negative (-). Incorrect polarity will result in poor sound quality.



Image 3.2: Rear view of HD-800 speaker with wiring terminals.

4. **Mount the Speaker:**

Carefully insert the speaker into the wall cutout. The HD-800 features a unique Pressure Lock Mounting System. Tighten the screws located on the front baffle of the speaker. As you tighten, the mounting clamps will pivot outwards and secure the speaker firmly to the drywall. Do not overtighten.



Image 3.3: Front view of HD-800 speaker (grille removed).

5. Attach the Grille:

Once the speaker is securely mounted, attach the removable grille. The grille is designed to fit snugly over the speaker frame. It can be painted to match your decor if desired.



Image 3.4: HD-800 Speaker Dimensions.

4. Operation

Once your HD-800 speakers are installed and wired, they are ready for use with your home audio receiver or amplifier.

- **Power Requirements:** Ensure your receiver or amplifier provides power within the recommended range of 10 to 350 watts per channel.
- **Receiver Setup:** Refer to your amplifier or receiver's manual for instructions on configuring speaker settings, such as speaker size (typically "Large" for full-range speakers), crossover frequencies (if applicable), and channel levels.
- **Sound Adjustment:** Adjust volume and tone controls on your receiver/amplifier to achieve your desired sound balance. The pivoting titanium tweeters allow for directional adjustment of high frequencies after installation to optimize sound for your listening area.

5. Maintenance

The Acoustic Audio HD-800 speakers require minimal maintenance to ensure long-lasting performance.

- **Cleaning:** Gently wipe the speaker grilles and frames with a soft, dry cloth. Do not use abrasive cleaners, solvents, or excessive moisture, as these can damage the finish or internal components.
- **Grille Removal:** If necessary, the grilles can be carefully removed for cleaning or painting. Use a small, flat tool to gently pry the grille from the frame edges.
- **Environmental Conditions:** Avoid exposing the speakers to extreme humidity, direct sunlight, or heat sources, which can degrade materials over time.

6. Troubleshooting

If you experience issues with your HD-800 speakers, consult the table below for common problems and solutions.

Problem	Possible Cause	Solution
No sound from speaker	Loose or incorrect wiring Receiver/amplifier not powered on or incorrect input selected Speaker damaged	Check all speaker wire connections at both the speaker and the receiver/amplifier for proper polarity and secure contact. Ensure receiver/amplifier is on and the correct audio source is selected. Test with another speaker or contact support if damage is suspected.

Problem	Possible Cause	Solution
Distorted or unclear sound	<p>Incorrect wiring polarity</p> <p>Overdriving the speakers (volume too high)</p> <p>Loose mounting</p>	<p>Verify positive and negative connections are consistent for all speakers.</p> <p>Reduce the volume level on your receiver/amplifier.</p> <p>Ensure the speaker is securely mounted in the wall.</p> <p>Tighten mounting screws if necessary.</p>
Lack of bass or treble	<p>Receiver/amplifier tone settings</p> <p>Incorrect speaker placement</p>	<p>Adjust bass and treble controls on your receiver/amplifier.</p> <p>Ensure speakers are placed according to recommended guidelines for your room.</p>

If the problem persists after trying these solutions, please contact Acoustic Audio by Goldwood customer support.

7. Specifications

Feature	Detail
Model Number	HD-800
Speaker Type	2-Way In-Wall Passive Speaker
Woofer Size	8-inch Woven Fiber Bulletproof Cone with Butyl Rubber Surround
Tweeter Type	Pivoting Titanium Tweeter
Frequency Response	30Hz - 22kHz
Sensitivity	98dB
Impedance	8 Ohms
Power Handling	10 - 350 Watts per channel

Feature	Detail
Mounting Type	Flush Mount (In-Wall) with Pressure Lock System
Required Cutout Size	8.75" x 12.66" (22.2 cm x 32.2 cm)
Mounting Depth	4 inches (10.16 cm)
Overall Speaker Size	10.125" x 14.25" (25.7 cm x 36.2 cm)
Housing Material	Durable ABS
Connectivity	Spring Loaded Raw Wire Connections
Item Weight (per speaker)	Approximately 5.6 lbs (45 lbs for 8 speakers / 4 pair pack)

8. Warranty and Support

Acoustic Audio by Goldwood products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your purchase or visit the official Acoustic Audio by Goldwood website.

If you require technical assistance, have questions about your product, or need to initiate a warranty claim, please contact our customer support team:

- **Website:** www.goldwood.com (or refer to your product packaging for the most current contact information)
- **Email:** Refer to website for contact form or email address.
- **Phone:** Refer to website for phone support.

Please have your model number (HD-800) and proof of purchase ready when contacting support.