Klipsch R-5650-W II

Klipsch R-5650-W II In-Wall Speaker Instruction Manual

Model: R-5650-W II

INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your Klipsch R-5650-W II In-Wall Speaker. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your speaker.

The Klipsch R-5650-W II is designed for high-quality audio reproduction in architectural settings, suitable for both home theater and stereo music applications.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.

- Keep these instructions.

- Heed all warnings.

- Follow all instructions.

- Do not use this apparatus near water.

- Clean only with a dry cloth.

- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

- Only use attachments/accessories specified by the manufacturer.

- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, please visit www.P65Warnings.ca.gov.

SETUP AND INSTALLATION

Choosing a Location

The Klipsch R-5650-W II is designed for in-wall installation. Consider the following when selecting a location:

- Ensure adequate clearance from wall studs. The mounting tabs require space to extend.
- Avoid installing near electrical wiring, plumbing, or HVAC ducts.
- For optimal sound dispersion, consider the listening area and the speaker's pivoting tweeter.
- The speaker is designed for indoor use. It is not waterproof.

Tools Required

- Pencil
- Measuring Tape
- Stud Finder
- Drywall Saw or Utility Knife
- Wire Strippers
- Screwdriver (manual recommended to avoid over-tightening)
- Speaker Wire (appropriate gauge for length of run)

Installation Steps

1. **Prepare the Wall:** Use a stud finder to locate wall studs. Position the speaker template (usually included with the product) in the desired location, ensuring it avoids studs and has sufficient clearance for the mounting tabs.
2. **Trace and Cut:** Trace the outline of the template onto the wall. Carefully cut the opening using a drywall saw or utility knife.
3. **Run Speaker Wire:** Route speaker wire from your amplifier/receiver to the wall opening. Ensure proper polarity (+ to + and - to -) throughout the entire audio system.
4. **Connect Speaker Wire:** Strip approximately 1/2 inch of insulation from the ends of the speaker wire. Connect the wires to the speaker's binding posts, ensuring a secure connection and correct polarity.
5. **Mount the Speaker:** Insert the speaker into the cut-out. Tighten the mounting screws (usually located on the front baffle) with a screwdriver. This will cause the mounting tabs to rotate outwards and clamp onto the drywall. Do not overtighten.
6. **Attach Grille:** The magnetic grille can now be attached to the speaker frame. It should snap into place securely and flush with the wall surface.

Image: Klipsch R-5650-W II In-Wall Speaker without grille, revealing the internal components including the 6.5-inch Cerametallic woofer and the 1-inch Titanium dome compression driver mated to a Tractrix Horn.

Image: Klipsch R-5650-W II In-Wall Speaker with a partial view of the magnetic grille being attached, illustrating the flush-mount design.

Image: The white magnetic grille for the Klipsch R-5650-W II In-Wall Speaker, designed to blend seamlessly with most wall finishes.

OPERATING INSTRUCTIONS

Initial Power-Up

Once the speaker is installed and wired to your amplifier/receiver, ensure all connections are secure. Power on your audio system and gradually increase the volume to a low level to confirm sound output.

Adjusting Sound Settings

The R-5650-W II features treble and midbass attenuation switches, typically located on the speaker baffle behind the grille. These switches allow for fine-tuning the sound to match your room acoustics and personal preference.

- **Treble Attenuation:** Adjusts the high-frequency output. Use to reduce brightness in acoustically live rooms or to increase clarity in damped environments.
- **Midbass Attenuation:** Adjusts the mid-range and bass output. Use to compensate for room modes or to integrate better with a subwoofer.

Experiment with these settings while listening to various audio content to find the optimal balance for your setup.

Pivoting Tweeter

The Tractrix Horn tweeter can be pivoted to direct high frequencies towards the primary listening area. Gently adjust the tweeter assembly to aim the sound for improved imaging and soundstage.

MAINTENANCE

The Klipsch R-5650-W II In-Wall Speaker requires minimal maintenance.

- **Cleaning:** Dust the speaker grille and frame periodically with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Grille Painting (Optional):** If you wish to paint the grille to match your wall color, remove it from the speaker. Use a fine-mist spray paint and apply several thin coats to avoid clogging the perforations. Ensure the paint is fully dry before reattaching.
- **Inspection:** Periodically check speaker wire connections for tightness and ensure the speaker remains securely mounted in the wall.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from speaker	Loose speaker wire connection Incorrect amplifier/receiver settings Amplifier/receiver not powered on Speaker wire short circuit	Check and secure all speaker wire connections at both the speaker and amplifier. Verify the correct input and speaker output settings on your amplifier/receiver. Ensure the amplifier/receiver is powered on and not in standby mode. Inspect speaker wires for frayed strands that might be touching.
Distorted or unclear sound	Overdriven amplifier Incorrect attenuation switch settings Loose speaker mounting	Reduce volume level. Adjust treble and midbass attenuation switches. Ensure speaker mounting screws are tightened appropriately.

Problem	Possible Cause	Solution
Sound is too bright or dull	Treble attenuation switch setting Room acoustics	Adjust the treble attenuation switch to suit your preference and room environment. Consider adjusting the pivoting tweeter direction.

SPECIFICATIONS

Feature	Detail
Model Name	R-5650-W II
Speaker Type	In-Wall Speaker
Woofer Diameter	6.5 Inches Cerametallic
Tweeter	1-inch Titanium dome compression driver mated to 4-inch square 90° x 60° Tractrix Horn (Pivoting)
Impedance	8 Ohm
Speaker Maximum Output Power	100 Watts
Product Dimensions (D x W x H)	3.75"D x 9.4"W x 14.3"H
Item Weight	0.01 Ounces *(Note: This weight appears to be a data entry error. Refer to product packaging for accurate weight.)*
Color	White
Mounting Type	Wall Mount
Connectivity Technology	Wired
Recommended Uses	Home theater or stereo music applications (Indoor)
Included Components	Audio Speaker, Magnetic Grille
UPC	743878023992

WARRANTY INFORMATION

For detailed warranty information regarding your Klipsch R-5650-W II In-Wall Speaker, please refer to the warranty card included with your product or visit the official Klipsch website. Warranty terms and conditions may vary by region and retailer.
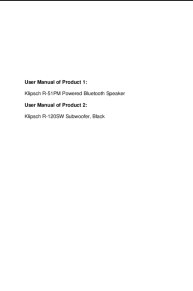
SUPPORT AND CONTACT

If you require further assistance or have questions not covered in this manual, please contact Klipsch customer support.

- **Official User Manual (PDF):** For a downloadable version of the user manual, please visit:Klipsch R-5650-W II User Manual PDF
- **Klipsch Official Website:** www.klipsch.com
- **Klipsch Store on Amazon:** Visit the Klipsch Store

Related Documents - R-5650-W II

	Klipsch Reference Subwoofers User Manual Official user manual for Klipsch Reference subwoofers (R-8SW, R-10SW, R-12SW). Learn about setup, connections, controls, positioning, and care for your Klipsch sound system.
	Klipsch R-120SWi Reference Subwoofer User Manual User manual for the Klipsch R-120SWi Reference Subwoofer, covering inspection, positioning, controls, wired and wireless connections, care, and product registration. Learn how to set up and use your Klipsch subwoofer for optimal audio performance.
	Klipsch Heresy IV 3-Way 12" Horn-Loaded Loudspeaker Owner's Manual and Specifications Official owner's manual and specification sheet for the Klipsch Heresy IV 3-way 12-inch horn-loaded loudspeaker. Features include high efficiency, matched pairs, book-matched wood veneer, and robust construction. Details placement, connections, safety, and technical specifications.
	Klipsch Reference Series Speakers: Installation, Placement, and Safety Guide Comprehensive guide to Klipsch Reference series speakers, covering setup, room placement, connections, wall mounting, care, product registration, and important safety instructions. Includes Dolby Atmos setup.
	Klipsch Reference R-51PM Powered Bluetooth Speaker & R-120SW Subwoofer User Manual Comprehensive user manual for Klipsch Reference R-51PM powered Bluetooth speakers and R-120SW subwoofers. Learn about setup, connections, features, and troubleshooting for your Klipsch audio system.
	Klipsch Reference Subwoofers User Manual: Setup, Connections, and Safety This user manual provides detailed information for Klipsch Reference series subwoofers, including models R-110SW, R-112SW, and R-115SW. It covers setup, positioning, connections, controls, care, safety warnings, compliance information, and warranty details.

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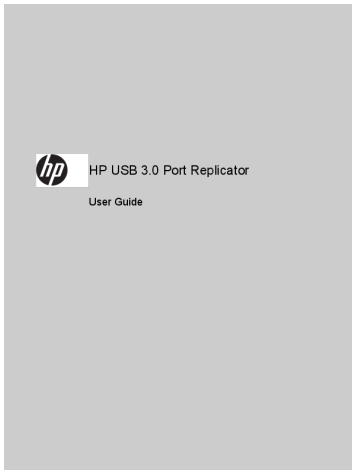
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