Theater Solutions CS4C-5S

Theater Solutions CS4C In-Ceiling Speaker System Instruction Manual

Model: CS4C-5S

1. INTRODUCTION

Congratulations on your purchase of the Theater Solutions CS4C In-Ceiling Speaker System. These speakers are engineered to provide high-quality sound reproduction for various audio applications, including home theater surround sound, whole-house audio, and business installations. Designed for easy integration and a flush-mount appearance, this system delivers clear and immersive audio.

What's in the Box

- 5 x Flush Mount Passive Speakers with Removable Grills
- Cut-Out Templates
- Instruction Manual

Image: The complete set of five CS4C in-ceiling speakers, showcasing their design with removable grilles.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating your speakers. Failure to do so may result in injury or damage to the equipment.

- **Power Off:** Always disconnect power to the amplifier or receiver before making any connections or performing maintenance.
- **Wiring:** Use only CL3 rated in-wall certified speaker wire for in-wall/in-ceiling installations to comply with building codes and ensure safety.
- **Mounting:** Ensure the mounting surface (ceiling or wall) is structurally sound and can support the weight of the speakers. Improper installation can lead to speakers falling, causing injury or damage.

- **Ventilation:** Do not obstruct the ventilation of your amplifier or receiver. Ensure adequate airflow around all audio components.
- **Moisture:** These speakers are not waterproof. Do not install them in areas exposed to moisture or extreme humidity.
- **Heat:** Avoid installing speakers near heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.

3. SETUP AND INSTALLATION

System Requirements

- Any home audio receiver or amplifier with raw speaker wire outputs.
- Receiver power should be no less than 10 watts and no more than 150 watts per channel.
- CL3 rated in-wall certified raw speaker wire to connect your receiver to the speakers.

Speaker Placement

For optimal sound dispersion and home theater experience, consider the following:

- **Surround Sound:** For a 5-speaker setup, position the center channel speaker directly above or below the viewing screen. Place front left and right speakers equidistant from the screen. Rear left and right speakers should be positioned behind the listening area.
- **Whole House Audio:** Distribute speakers evenly throughout the desired listening area to ensure balanced sound coverage.

Installation Steps

1. **Prepare the Mounting Location:**
   Carefully select the location for each speaker. Ensure there are no obstructions (e.g., electrical wires, plumbing, studs) behind the drywall. Use a stud finder if necessary.
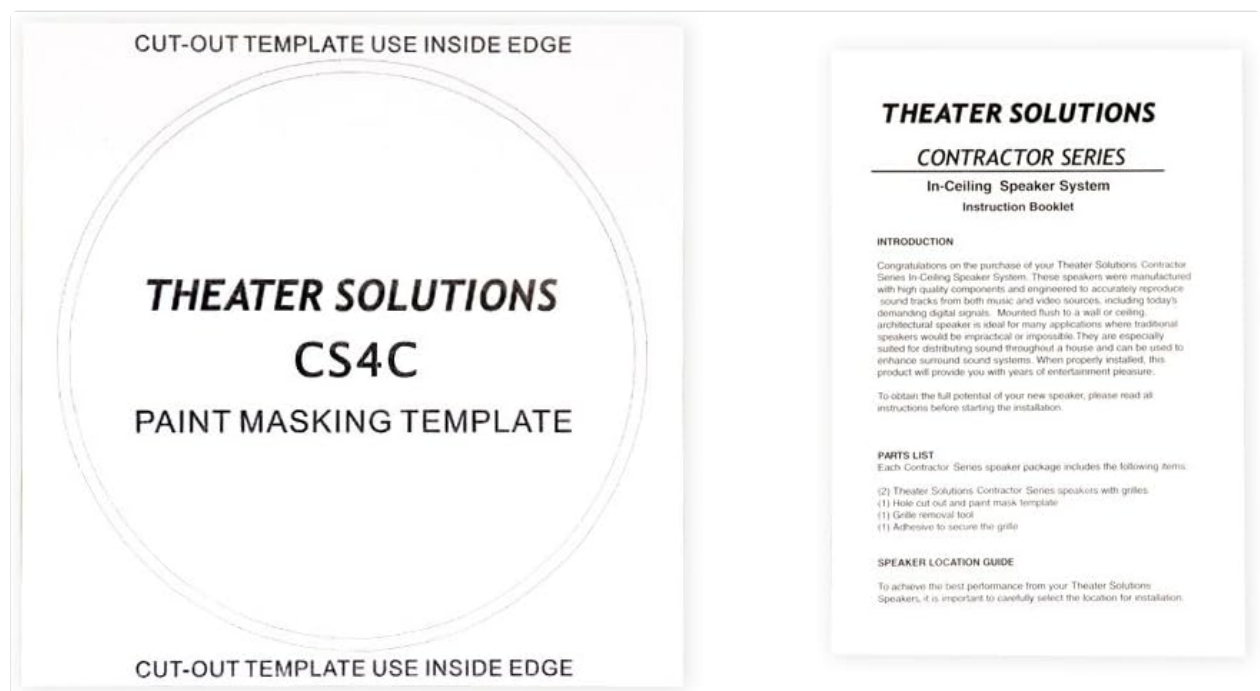

Image: The provided cut-out template and instruction booklet, essential for precise installation.

2. **Cut the Mounting Hole:**
Use the provided cut-out template to trace the speaker hole onto the drywall. Carefully cut the hole using a drywall saw or utility knife. The required round speaker hole size is 5.75 inches (14.6 cm) with a mounting depth of 2 inches (5.08 cm).

3. **Run Speaker Wire:**
Route the CL3 rated speaker wire from your amplifier/receiver to each speaker location. Leave enough slack at the speaker end for easy connection.

4. **Connect Speaker Wire:**
Strip approximately 1/2 inch (1.27 cm) of insulation from the ends of the speaker wire. Connect the positive (+) terminal of the speaker to the positive (+) terminal of the amplifier/receiver, and the negative (-) terminal of the speaker to the negative (-) terminal of the amplifier/receiver. The CS4C speakers feature raw wire clamp or solder connections.

Image: Rear view of the CS4C speaker, highlighting the wiring terminals and the model label.

5. **Mount the Speaker:**
Insert the speaker into the cut-out hole. The unique Pressure Lock Mounting System will clamp tight to the drywall without the need for additional hardware. Ensure the speaker is flush with the ceiling/wall surface.

Image: Close-up of a single CS4C speaker, illustrating the mounting tabs and the removable grille.

6. **Attach the Grille:**
   Once the speaker is securely mounted, gently press the removable grille onto the speaker frame until it sits flush.

Image: Front view of the CS4C speaker without the grille, revealing the 4-inch woofer and 1-inch coaxial Mylar dome tweeter.

4. OPERATING YOUR SPEAKERS

The Theater Solutions CS4C speakers are passive speakers, meaning they require an external amplifier or receiver to function. Once properly installed and connected to your audio system, operation is straightforward:

- **Power On:** Turn on your amplifier or receiver.
- **Source Selection:** Select the desired audio source (e.g., CD player, streaming device, TV audio).
- **Volume Control:** Adjust the volume using your amplifier or receiver's controls. Start at a low volume and gradually increase it to a comfortable listening level.
- **Sound Settings:** Utilize your receiver's sound settings (e.g., equalizer, surround sound modes) to fine-tune the audio output to your preference.

5. MAINTENANCE

Your Theater Solutions CS4C speakers are designed for durability and require minimal maintenance.

- **Cleaning:** To clean the speaker grilles and frames, gently wipe them with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, but ensure no moisture enters the speaker components. Do not use harsh chemicals or abrasive cleaners.
- **Painting Grilles:** The durable ABS housings and removable grilles can be painted to match your decor. Ensure the grilles are removed from the speakers before painting. Use a fine-mist spray paint for best results, applying thin, even coats to avoid clogging the grille perforations. Allow paint to dry completely before reattaching.

6. TROUBLESHOOTING

If you experience issues with your speakers, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from speaker(s)	- Loose or incorrect wiring - Amplifier/receiver not powered on or set to incorrect input - Speaker damaged	- Check all speaker wire connections at both the speaker and amplifier ends. Ensure correct polarity (+ to + and - to -). - Verify amplifier/receiver is powered on and the correct input source is selected. - Test with another speaker or connect the speaker to a different channel on the amplifier to isolate the issue.
Distorted sound	- Overdriving the speakers (volume too high) - Loose wiring - Damaged speaker cone/tweeter	- Reduce the volume on your amplifier/receiver. - Check speaker wire connections for any loose strands or shorts. - Inspect the speaker cone and tweeter for visible damage.
Weak or unbalanced sound	- Incorrect speaker placement - Phase issue (reversed polarity) - Amplifier settings	- Review speaker placement guidelines in Section 3. - Double-check speaker wire polarity for all speakers. - Adjust balance or channel level settings on your amplifier/receiver.

If the problem persists after attempting these solutions, please contact Theater Solutions customer support.

7. SPECIFICATIONS

Feature	Specification
Model Name	CS4C-5S
Mounting Type	Wall Mount / Ceiling Mount
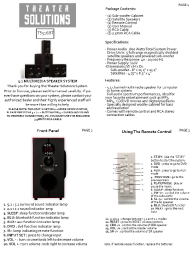
Feature	Specification
Speaker Type	In-Ceiling, In-Wall, Center Channel
Recommended Uses	Home Theater, Whole House Audio, Business/Retail Installations
Woofer Size	4 inches (Extended Throw with Polypropylene Mica cones)
Tweeter Type	1 inch Coaxial Mylar dome
Frequency Response	70Hz - 20 kHz
Sensitivity	89dB
Impedance	8 Ohm
Speaker Maximum Output Power	150 Watts
Overall Speaker Size	6.875 inches (17.46 cm)
Required Cut-Out Hole Size	5.75 inches (14.6 cm)
Mounting Depth	2 inches (5.08 cm)
Material	Acrylonitrile Butadiene Styrene (ABS)
Connectivity Technology	Coaxial (Raw Wire Clamp / Solder Connections)
Item Weight	1.75 pounds (0.79 kg) per speaker
Product Dimensions	6.9 x 2 x 6.9 inches (17.5 x 5.1 x 17.5 cm)

8. WARRANTY AND SUPPORT

Theater Solutions products are designed for reliability and performance. For specific warranty information regarding your CS4C In-Ceiling Speaker System, please refer to the documentation included with your purchase or visit the official Theater Solutions website.

For technical support, troubleshooting assistance, or replacement parts, please contact Theater Solutions customer service through their official channels. When contacting support, please have your product model number (CS4C-5S) and purchase information readily available.

Manufacturer: Theater Solutions by Goldwood

Related Documents - CS4C-5S

	[Theater Solutions TS212 Multimedia Speaker System User Manual](#) User manual for the Theater Solutions TS212 2.1 channel multimedia speaker system, detailing package contents, specifications, features, remote control, system connections, speaker positioning, and FCC compliance.
	[Theater Solutions TS516BT 5.1 Multimedia Speaker System User Guide](#) Comprehensive user guide for the Theater Solutions TS516BT 5.1 Multimedia Speaker System, covering package contents, specifications, features, front panel controls, remote operation, rear panel connections, system setup, and speaker placement recommendations.
	[Bose Surround Speakers User Manual](#) A comprehensive guide to setting up and using Bose Surround Speakers for an enhanced audio experience. Learn about placement, connections, troubleshooting, and safety instructions.
	[Klipsch Flexus Surr 200 Surround Speakers: Setup and Operation Guide](#) A comprehensive guide to setting up and operating the Klipsch Flexus Surr 200 wireless surround speakers, covering installation, connectivity, and sound customization.
	[Polk MagniFi MAX SR: Maximum-Performance True 5.1 Home Theater Sound Bar System](#) Discover the Polk MagniFi MAX SR, a true 5.1 home theater sound bar system delivering immersive surround sound, crystal-clear dialogue with VoiceAdjust technology, and deep bass. Features SDA Surround, Google Chromecast, and wide remote compatibility.
	[Cambridge SoundWorks Surround 5.1 & Surround II 5.1 Speaker Setup and Operation Manual](#) Comprehensive guide for setting up, connecting, and operating the Cambridge SoundWorks Surround 5.1 and Surround II 5.1 surround sound speakers, including multipole technology, placement advice, and warranty information.