

Theater Solutions TS50W

Theater Solutions TS50W In-Wall Speaker System User Manual

Model: TS50W

INTRODUCTION

Welcome to your Theater Solutions TS50W In-Wall Speaker System. These speakers are designed to deliver high-quality audio with powerful bass in a compact, discreet package. Their ultra-wide sound dispersion makes them suitable for various home audio environments, including single or multi-room setups, home theaters, and surround sound systems.

This manual provides essential information for the proper installation, operation, and maintenance of your speakers. Please read it thoroughly before proceeding with installation or use.

PACKAGE CONTENTS

The Theater Solutions TS50W speaker package typically includes:

- Theater Solutions TS50W In-Wall Speakers (quantity as purchased, e.g., 2 or 4)
- Paintable White Aluminum Grilles
- Cut-out Template
- Instruction Booklet (this manual)



Image: Four Theater Solutions TS50W in-wall speakers with grilles attached, showcasing their design and readiness for installation.

PRODUCT FEATURES

- **Power Handling:** 10-200 Watts per speaker.
- **Efficiency:** 93dB.
- **Frequency Response:** 50Hz-20 kHz.
- **Impedance:** 8 Ohm.
- **Design:** 2-Way system.

- **Woofers:** 5.25-inch woven fiber cone with butyl rubber surround for extended durability and bass response.
- **Tweeter:** Rotating silk titanium dome tweeter for precise sound direction.
- **Crossover:** 2nd order 12dB per octave crossover for clear frequency separation.
- **Connectivity:** Spring-loaded raw wire connectors for secure speaker wire attachment.
- **Installation:** Easy-to-install slim housing with proprietary wall lock mount system (dog leg mounts). No additional mounting hardware required.
- **Aesthetics:** Paintable frame and grille to match your interior decor.
- **Dimensions:**
 - Cut-out Size: 9.5 inches (24.13 cm) x 6 inches (15.24 cm) per speaker.
 - Overall Size: 11 inches (27.94 cm) x 7.5 inches (19.05 cm) per speaker.
 - Mounting Depth: 2.25 inches (5.72 cm) per speaker.
- **Origin:** Designed and manufactured in the USA.



Image: Detailed view of the TS50W speaker components, including the 5.25-inch woven fiber woofer and the silk titanium dome tweeter.

SETUP AND INSTALLATION

Planning Your Installation

Proper placement is crucial for optimal sound performance. Consider the acoustics of your room and the desired sound field (e.g., stereo, surround sound). These speakers can be installed in walls or ceilings.

Tools Required

- Pencil

- Level
- Drywall Saw or Utility Knife
- Screwdriver (Phillips head)
- Speaker Wire (appropriate gauge for your amplifier and cable length)
- Wire Strippers
- Stud Finder (if installing in a wall)

Installation Steps

1. **Select Location:** Choose a suitable location in your wall or ceiling, ensuring no obstructions (e.g., electrical wires, plumbing, studs/joists) are present behind the mounting surface. Use a stud finder if necessary.
2. **Mark Cut-out:** Use the provided cut-out template to trace the opening on the wall or ceiling. Ensure the template is level before marking.

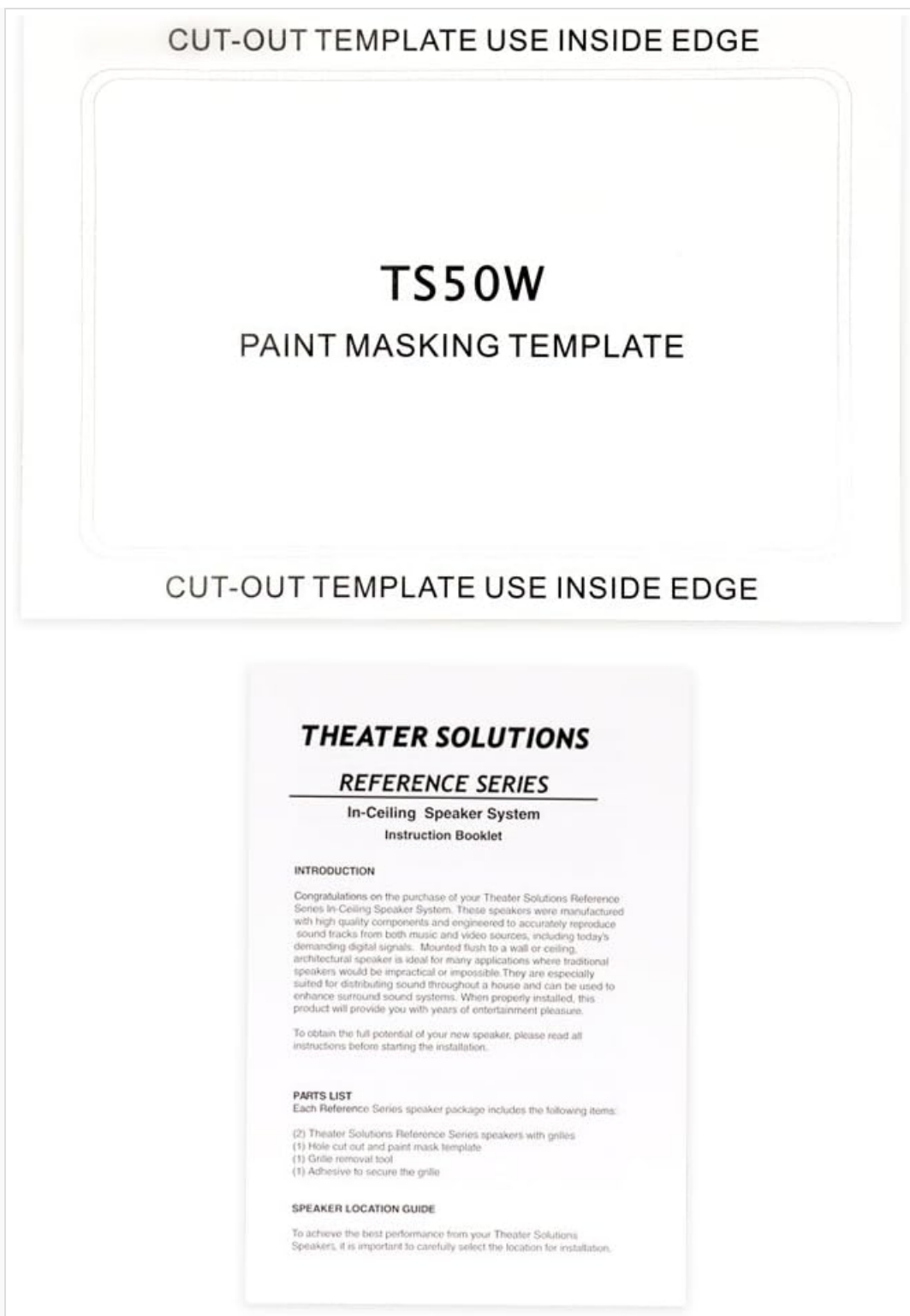


Image: The provided cut-out template and instruction booklet, essential for accurate speaker installation.

3. **Cut Opening:** Carefully cut along the traced line using a drywall saw or utility knife.
4. **Run Speaker Wire:** Route speaker wire from your amplifier/receiver to the speaker opening. Leave enough slack for easy connection.
5. **Connect Speaker Wire:** Strip approximately 1/2 inch (1.25 cm) of insulation from the ends of the speaker wire. Connect the positive (+) terminal of the speaker to the positive (+) terminal of your amplifier, and the negative (-) terminal of the speaker to the negative (-) terminal of your amplifier. Ensure correct polarity for all speakers. The TS50W speakers feature spring-loaded raw wire connectors.



Image: Rear view of the TS50W speaker, highlighting the spring-loaded wire terminals and crossover components for wiring connections.

6. **Mount Speaker:** Insert the speaker into the cut-out opening. Tighten the screws on the front baffle. This will engage the swing-out dog leg mounting clamps, securing the speaker firmly to the wall or ceiling. Do not overtighten.
7. **Attach Grille:** Align the paintable white aluminum grille with the speaker frame and gently press it into place. The grille is designed for a snug fit.



Image: A single TS50W speaker with its grille partially removed, demonstrating how the grille attaches and detaches.

8. **Paint Grille (Optional):** If desired, the frame and grille can be painted to match your room's decor. Ensure paint does not clog the grille perforations.

Tweeter Adjustment

The silk titanium dome tweeter can be rotated to direct high-frequency sound towards your primary listening area, optimizing sound imaging.

OPERATION

Once installed and connected to your amplifier/receiver, your Theater Solutions TS50W speakers operate like any other passive speaker.

- **Power On:** Turn on your amplifier/receiver.
- **Source Selection:** Select your desired audio source (e.g., TV, music player, streaming device).
- **Volume Control:** Adjust the volume on your amplifier/receiver to a comfortable listening level.

- **Audio Settings:** For optimal performance, refer to your amplifier/receiver's manual for settings related to speaker configuration (e.g., speaker size, crossover frequency, channel levels) to properly integrate your in-wall speakers into your audio system.

Important Considerations

- Avoid playing audio at excessively high volumes for prolonged periods, as this can damage the speakers and your hearing.
- Ensure your amplifier's power output is within the recommended range of 10-200 watts per speaker.

MAINTENANCE

Your Theater Solutions TS50W speakers require minimal maintenance.

- **Cleaning:** Dust the grilles and frames periodically with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, but avoid excessive moisture. Do not use harsh chemicals or abrasive cleaners.
- **Grille Removal:** If you need to remove the grille for cleaning or painting, gently pry it off from the edges.
- **Inspection:** Periodically check speaker wire connections to ensure they remain secure.

TROUBLESHOOTING

If you experience issues with your speakers, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Sound	<ul style="list-style-type: none">• Amplifier/receiver off or muted.• Incorrect source selected.• Loose or incorrect speaker wire connections.• Speaker wire short-circuited.	<ul style="list-style-type: none">• Ensure amplifier/receiver is on and not muted.• Select the correct audio input source.• Check all speaker wire connections at both the speaker and amplifier ends for proper polarity and secure fit.• Inspect speaker wire for any frayed strands touching each other or the speaker frame.
Distorted Sound	<ul style="list-style-type: none">• Volume too high.• Amplifier clipping.• Loose speaker wire connections.• Damaged speaker.	<ul style="list-style-type: none">• Reduce volume.• Ensure amplifier power is adequate and not overdriven.• Check speaker wire connections.• If distortion persists at low volumes, contact customer support.

Problem	Possible Cause	Solution
Uneven Sound (one speaker louder/quieter)	<ul style="list-style-type: none">• Incorrect balance settings on amplifier.• Loose connection on one speaker.• Damaged speaker.	<ul style="list-style-type: none">• Check amplifier balance settings.• Verify speaker wire connections for both speakers.• If problem persists, swap speakers to determine if the issue is with the speaker or the wiring/amplifier channel.

If these steps do not resolve the issue, please contact Theater Solutions customer support.


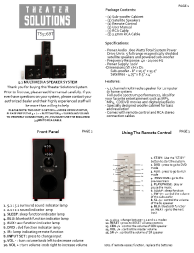
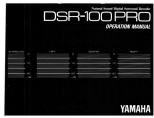



SPECIFICATIONS

Model:	TS50W
Speaker Type:	2-Way In-Wall/Ceiling Speaker
Woofer Size:	5.25 inches (Woven Fiber Cone with Butyl Rubber Surround)
Tweeter Type:	Rotating Silk Titanium Dome
Power Handling:	10-200 Watts per speaker
Efficiency:	93dB
Frequency Response:	50Hz-20 kHz
Impedance:	8 Ohm
Crossover:	2nd Order 12dB/Octave
Connectivity:	Spring-Loaded Raw Wire Terminals
Mounting System:	Proprietary Wall Lock (Dog Leg) Mounts
Grille:	Paintable White Aluminum
Cut-out Dimensions (H x W):	9.5 inches (24.13 cm) x 6 inches (15.24 cm)
Overall Dimensions (H x W):	11 inches (27.94 cm) x 7.5 inches (19.05 cm)
Mounting Depth:	2.25 inches (5.72 cm)
Weight (per speaker):	2.75 lbs (1.25 kg)
Material:	Aluminum (frame/grille)

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or visit the official Theater Solutions website. Keep your proof of purchase for warranty claims. For further assistance, you may contact Theater Solutions customer service.

Related Documents - TS50W

	<p>Theater Solutions TS212 Multimedia Speaker System User Manual</p> <p>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.</p>
	<p>Theater Solutions TS516BT 5.1 Multimedia Speaker System User Guide</p> <p>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.</p>
	<p>Yamaha DSR-100PRO Natural Sound Digital Surround Decoder Operation Manual</p> <p>Comprehensive operation manual for the Yamaha DSR-100PRO Natural Sound Digital Surround Decoder. This guide details setup, system configurations, connections, controls, adjustments, playback modes, recording, troubleshooting, and specifications for achieving immersive Dolby Pro Logic Surround sound.</p>
	<p>Sonos In-Wall by Sonance Installation Manual</p> <p>Comprehensive installation guide for Sonos In-Wall by Sonance speakers, detailing optimal speaker placement, step-by-step installation using the Roto-Lock system, grille painting techniques, and unlocking advanced audio features with a Sonos Amp. Includes a two-year warranty summary.</p>
	<p>GEOYEAO BT103 Soundbar User Manual</p> <p>Comprehensive user manual for the GEOYEAO BT103 Soundbar, covering features, safety information, installation, connections, remote control, troubleshooting, and product specifications.</p>
	<p>Philips FR965/FR975 Digital Surround Sound Receiver User Manual</p> <p>Comprehensive user manual for the Philips FR965 and FR975 digital surround sound receivers, covering setup, controls, connections, playback, surround sound, tuner functions, and troubleshooting.</p>