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› Proficient Audio PAS11641 6.5" Graphite Woofer Ceiling Speakers Instruction Manual

Proficient C641

Proficient Audio PAS11641 6.5" Graphite Woofer Ceiling Speakers Instruction Manual

Model: C641

1. INTRODUCTION

Thank you for choosing Proficient Audio PAS11641 6.5" Graphite Woofer Ceiling Speakers. These speakers are designed to deliver high-quality audio performance with a discreet, in-ceiling installation. Featuring a 6.5-inch graphite woofer and a 1-inch pivoting aluminum dome tweeter, they offer excellent sound reproduction. The thin-bezel grilles, held by neo magnets, ensure a clean and integrated look in any room.



Figure 1: Proficient Audio PAS11641 Ceiling Speakers, showing one with the grille installed and one without.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating your speakers. Retain this manual for future reference.

- **Electrical Safety:** Ensure all power to the installation area is turned off before making any electrical connections. Consult a qualified electrician if you are unsure about wiring procedures.
- **Installation:** These speakers are designed for in-ceiling installation. Ensure the mounting surface can safely support the weight of the speakers. Follow all local building codes.
- **Moisture:** Do not expose speakers to excessive moisture or water. These speakers are not waterproof.
- **Temperature:** Avoid installing speakers in areas with extreme temperatures or direct sunlight.
- **Cleaning:** Use a soft, dry cloth for cleaning. Do not use harsh chemicals or abrasive cleaners.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 2 x Proficient Audio PAS11641 6.5" Ceiling Speakers
- 2 x Thin-Bezel Grilles

- 1 x Instruction Manual (this document)

4. FEATURES

The Proficient Audio PAS11641 speakers offer the following key features:

- 6.5" Graphite Woofers for robust bass and mid-range audio.
- 1" Pivoting Aluminum Dome Tweeters for clear, adjustable high-frequency sound.
- +3dB Bass & Treble Contour Switches for customizable sound profiles.
- Thin-Bezel Grilles held by Neo Magnets for a sleek, low-profile appearance.
- 8 Ohms Impedance, compatible with most home audio receivers.
- 125 Watts Power Handling for dynamic audio performance.
- Frequency Response: 32Hz - 22kHz, providing a wide range of audible sound.

5. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. If you are unsure about any steps, consult a professional installer.

5.1 Planning Speaker Placement

Consider the acoustics of your room and desired sound coverage when choosing speaker locations. Ensure there are no obstructions (e.g., joists, wiring, plumbing) in the ceiling where you plan to install the speakers.

5.2 Preparing the Installation Area

1. **Turn off Power:** Before beginning, ensure all electrical power to the installation area is disconnected at the circuit breaker.
2. **Mark Cut-out:** Use the provided template (if included, or measure carefully) to mark the 8.25-inch diameter ceiling cut-out for each speaker.
3. **Cut Opening:** Carefully cut the marked opening in the ceiling using an appropriate tool (e.g., drywall saw).

5.3 Wiring the Speakers

Use high-quality speaker wire (e.g., 16-gauge or thicker for longer runs) to connect your amplifier/receiver to the speakers. Maintain correct polarity (+ to + and - to -) for all connections.

1. Run speaker wire from your amplifier/receiver to each speaker opening. Leave enough slack for easy connection.
2. Strip approximately 1/2 inch of insulation from the ends of the speaker wires.
3. Connect the positive (+) terminal of the speaker to the positive (+) terminal of the amplifier, and the negative (-) terminal of the speaker to the negative (-) terminal of the amplifier.

5.4 Mounting the Speakers

1. Carefully insert the speaker into the ceiling opening.
2. Tighten the mounting screws (usually located on the front baffle) evenly. This will rotate the mounting tabs behind the drywall, securing the speaker in place. Do not overtighten.
3. Once secured, attach the thin-bezel grille. The grille is held in place by neo magnets and will snap into position.



Figure 2: Detailed view of the speaker components and contour switches before grille installation.

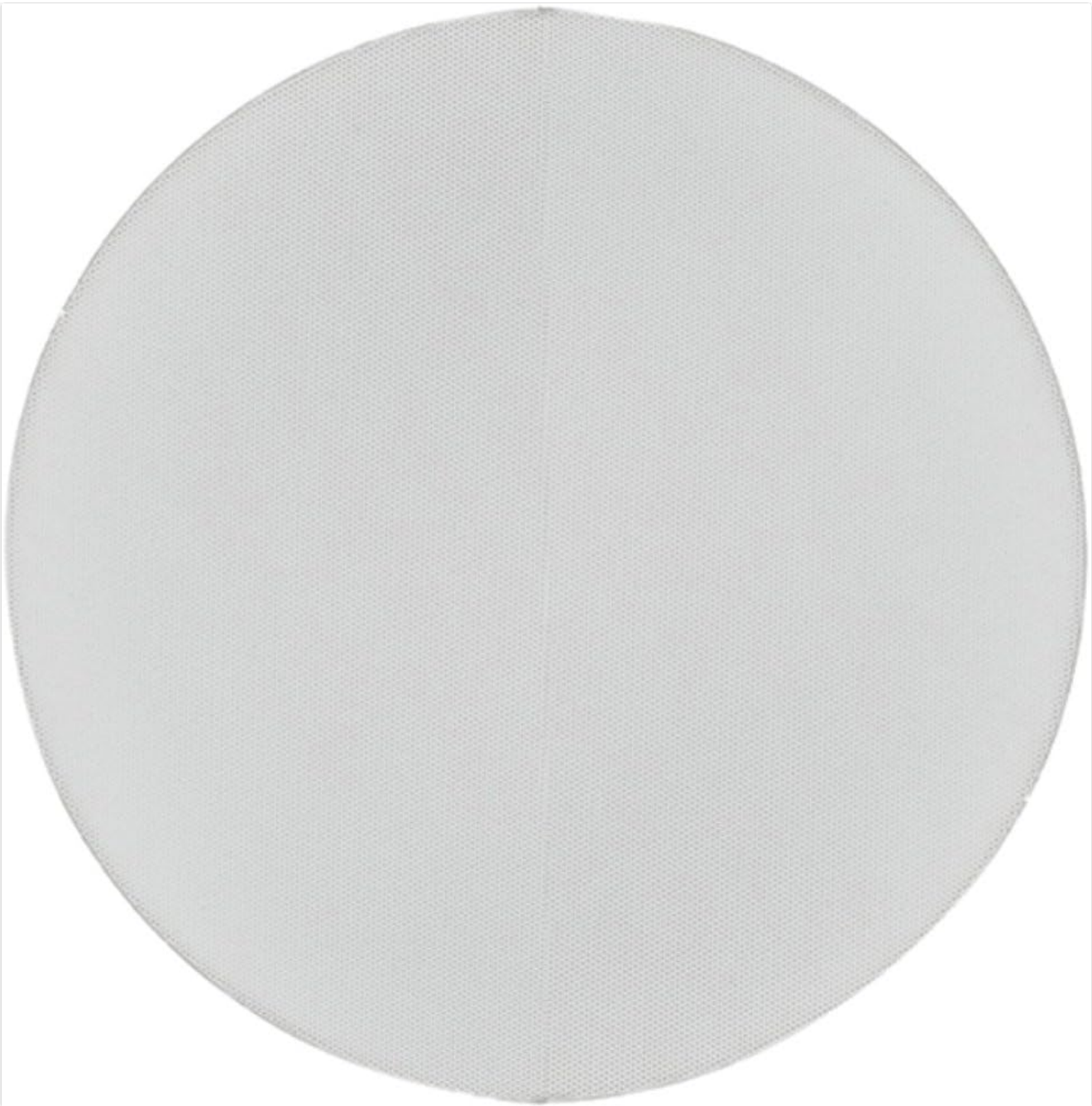


Figure 3: The thin-bezel grille, which attaches magnetically to the speaker frame.

6. OPERATING INSTRUCTIONS

After installation, you can customize the sound profile of your speakers using the contour switches.

6.1 Adjusting Bass and Treble

The PAS11641 speakers feature +3dB Bass & Treble Contour Switches located on the speaker baffle (visible when the grille is removed). These switches allow you to boost the bass and/or treble by 3 decibels to suit your listening preferences or room acoustics.

- **Bass Switch:** Flip this switch to increase the low-frequency output by 3dB.
- **Treble Switch:** Flip this switch to increase the high-frequency output by 3dB.

Experiment with these settings to find the optimal sound balance for your environment.

6.2 Pivoting Tweeter

The 1-inch aluminum dome tweeter can be pivoted to direct high-frequency sound towards your primary listening area, optimizing sound imaging and clarity.

7. MAINTENANCE

Your Proficient Audio ceiling speakers require minimal maintenance.

- **Cleaning:** Dust the grilles periodically with a soft, dry cloth. If necessary, the grilles can be gently removed for cleaning. Do not use water or cleaning solutions directly on the speaker components.
- **Grille Painting:** The grilles can be painted to match your ceiling color. Use a thin coat of spray paint and ensure the paint does not clog the grille perforations, as this can affect sound quality.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No sound from speaker	Loose or incorrect wiring; amplifier off or input not selected; speaker damaged.	Check all speaker wire connections for correct polarity and secure fit. Ensure amplifier is on and correct input is selected. Test with another speaker if possible.
Distorted sound	Over-driven amplifier; loose connections; damaged speaker.	Reduce amplifier volume. Check wiring for loose strands or shorts. Inspect speaker for visible damage.
Poor bass response	Incorrect wiring polarity; bass contour switch off; room acoustics.	Verify correct wiring polarity (+ to + and - to -). Engage the +3dB Bass Contour Switch. Adjust amplifier bass settings.
Poor treble response	Treble contour switch off; tweeter not aimed correctly.	Engage the +3dB Treble Contour Switch. Adjust the pivoting tweeter towards the listening area. Adjust amplifier treble settings.

9. SPECIFICATIONS

Detailed technical specifications for the Proficient Audio PAS11641 Ceiling Speakers:

Model: C641

Speaker Type: 6.5" Graphite Woofer Ceiling Speaker

Woofer: 6.5" Graphite

Tweeter: 1" Pivoting Aluminum Dome

Impedance: 8 Ohms

Sensitivity: 92dB 1W/1m

Power Handling: 125 Watts

Frequency Response: 32Hz - 22kHz

Ceiling Cut-Out Diameter: 8.25 inches

Dimensions (Diameter x Depth): 9.25 x 3.62 inches

Item Weight: Approximately 12.23 pounds (pair)

Connectivity Technology: Wired



Figure 4: Product packaging displaying key specifications.

10. WARRANTY AND SUPPORT

Proficient Audio provides a limited warranty for its products. The product packaging indicates a 10-year warranty. For specific warranty terms and conditions, please refer to the warranty card included with your purchase or visit the official Proficient Audio website.

For technical support, troubleshooting assistance, or warranty claims, please contact Proficient Audio customer service through their official website or authorized dealer.

Online Support: www.proficientaudio.com