

OSD Audio FBA-C1070V

OSD Audio C1070V 8-inch Commercial 70V Ceiling Speaker Instruction Manual

Model: FBA-C1070V

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your OSD Audio C1070V 8-inch Commercial 70V Ceiling Speaker. This speaker is designed for commercial applications requiring reliable audio performance, such as restaurants, hotels, retail spaces, and office buildings. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

Please observe the following safety precautions:

- Ensure all electrical connections are made by a qualified professional and comply with local electrical codes.
- Disconnect power to the installation area before performing any wiring or maintenance.
- Do not expose the speaker to moisture or extreme temperatures.
- Use appropriate mounting hardware and techniques to secure the speaker firmly in the ceiling.
- Avoid placing heavy objects on the speaker or its wiring.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- OSD Audio C1070V 8-inch Commercial 70V Ceiling Speaker (1 unit)

4. SETUP AND INSTALLATION

4.1. Speaker Overview

The OSD Audio C1070V features an 8-inch woofer and a 70V transformer for commercial audio systems. It includes

a white metal grille for a discreet appearance.



Figure 1: OSD Audio C1070V Speaker (front and rear view). This image displays the speaker with its white perforated grille and the rear housing revealing the wiring and transformer.



Figure 2: Speaker Grille. A detailed view of the white, perforated metal grille that covers the speaker cone.



Figure 3: Speaker Rear View. This image highlights the speaker's rear components, including the 70V transformer and connection terminals.

4.2. Mounting

The C1070V speaker is designed for in-ceiling installation. It has a product dimension of 3.15"D x 12"W x 12"H.

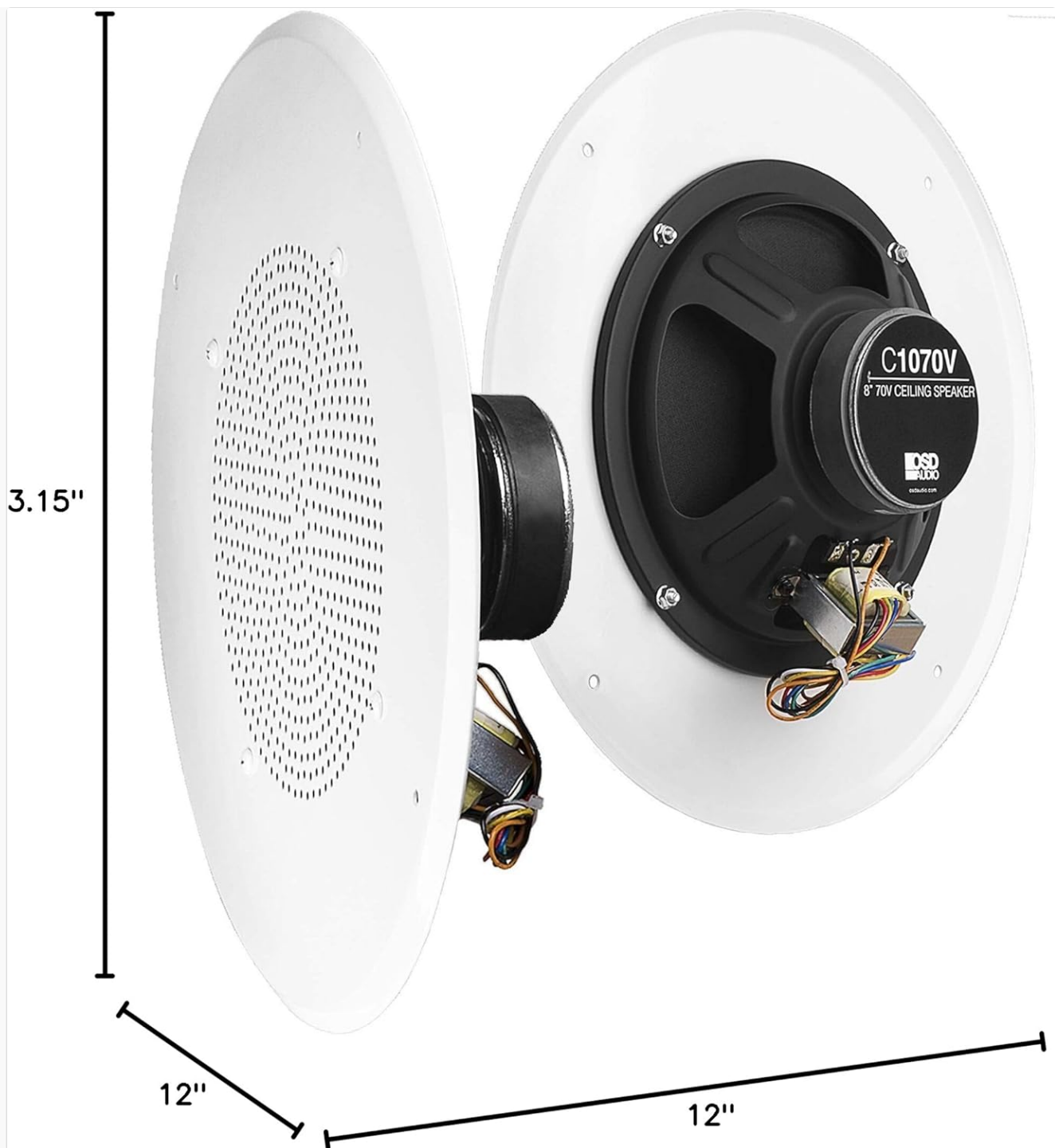


Figure 4: Speaker Dimensions. This diagram shows the overall dimensions of the speaker, including its 12-inch diameter and 3.15-inch depth.

For typical assembly, follow these steps:

1. Cut a round loudspeaker clearance hole of 11.5" (292mm) in the ceiling tile.
2. If using a back box (sold separately), ensure it is compatible with the C1070V.
3. Mounting holes are 11.25" (286mm) center to center, with 4 tapped holes.
4. Insert the speaker into the cutout, ensuring it is securely fastened. For suspended ceilings, consider using metal frames (e.g., Bogen TB-8) for additional support, as the speaker may be too heavy for ceiling tiles alone.



Figure 5: Typical Assembly Diagram. This illustration details the components and steps for installing the C1070V speaker into a ceiling, including the back box, mounting plate, speaker unit, and baffle.

4.3. Wiring (70V Connection)

The OSD Audio C1070V is designed for 70V constant voltage audio systems, allowing multiple speakers to be daisy-chained to a 70V powered amplifier. The speaker includes wattage taps via a front dial and rear indicator for easy setup.



Figure 6: Wiring Diagram and Color Code. This image provides a visual guide to the wiring connections for both 70V and 8 Ohm modes, along with a color-coded legend for different wattage taps.

Refer to the wiring color code for 70V/25V taps:

- **Black:** Common Ground 70V
- **Red:** 25V-5W
- **Yellow:** 25V-2.5W
- **Green:** 25V-1.25W
- **Blue:** 25V-0.63W / 70V-5W

- **Brown:** 25V-0.32W / 70V-2.5W
- **Purple:** 70V-1.25W
- **White:** 70V-0.63W
- **Gray:** 70V-0.32W

For 8 Ohm Taps:

- **Pink:** Common Ground/8 ohm
- **Orange:** 8 Ohm Positive

Connect the appropriate wires from your 70V amplifier to the speaker's terminals based on your desired wattage setting. Ensure all connections are secure to prevent signal loss or damage.

5. OPERATING INSTRUCTIONS

Once installed and wired, the speaker will operate as part of your 70V audio system. The wattage taps on the speaker allow you to adjust the output level for individual speakers, providing flexibility in sound distribution across different zones or areas. Select the desired wattage tap to achieve the appropriate volume level for the environment.

6. MAINTENANCE

The OSD Audio C1070V speaker requires minimal maintenance. To ensure longevity and optimal performance:

- Periodically wipe the grille and surrounding areas with a soft, dry cloth to remove dust.
- Do not use harsh chemicals or abrasive cleaners.
- Inspect wiring connections occasionally to ensure they remain secure.

7. TROUBLESHOOTING

If you experience issues with your speaker, consider the following:

- **No Sound:** Check all wiring connections from the amplifier to the speaker. Ensure the amplifier is powered on and functioning correctly. Verify the correct wattage tap is selected.
- **Distorted Sound:** Ensure the amplifier's output level is not too high, causing clipping. Check speaker wiring for shorts or loose connections.
- **Low Volume:** Adjust the wattage tap on the speaker to a higher setting. Confirm the amplifier's volume is adequately set.

For persistent issues, consult a qualified audio technician.

8. SPECIFICATIONS

Feature	Specification
Model Name	FBA-C1070V
Speaker Type	Ceiling
Input Voltage	70 Volts

Speaker Size	8 Inches
Woofer Diameter	8 Inches
Speaker Maximum Output Power	20 Watts
Frequency Response	40 Hz - 20 kHz (from feature bullets)
Impedance	8 Ohm
Connectivity Technology	Wired
Product Dimensions	3.15"D x 12"W x 12"H
Item Weight	4.1 Pounds
Mounting Type	Ceiling Mount
Color	White (from product title)

9. WARRANTY

This OSD Audio C1070V speaker comes with a Limited Warranty. For specific terms and conditions, please refer to the warranty documentation provided with your purchase or contact OSD Audio customer support.


10. SUPPORT

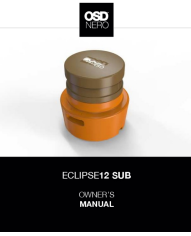
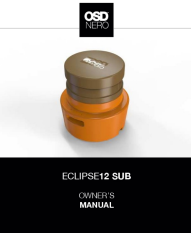



For further assistance, technical support, or to access the official user manual PDF, please visit the [OSD Audio Store](#) or refer to the provided user guide link: [User Manual \(PDF\)](#).



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Related Documents - FBA-C1070V

	<p>OSD Audio C1070V/C1090VK Series 70/25 Volt 8" Commercial Ceiling Speakers with Transformer</p> <p>Detailed information on OSD Audio's C1070V and C1090VK series 8-inch commercial ceiling speakers, featuring dual 70/25V transformers, 10W RMS power, and various tap settings. Includes specifications, wiring color codes, and typical assembly instructions.</p>
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 <p>OSD NERO</p> <p>ECLIPSE12 SUB OWNER'S MANUAL</p>	<p>OSD Nero Eclipse12 Subwoofer Owner's Manual and Installation Guide</p> <p>Comprehensive guide for the OSD Nero Eclipse12 Subwoofer, covering model specifications, installation instructions, wiring diagrams, and warranty details for outdoor audio systems.</p>
 <p>OSD NERO</p> <p>ECLIPSE12 SUB OWNER'S MANUAL</p>	<p>OSD Nero Eclipse12 Subwoofer Landscape Light Owner's Manual and Installation Guide</p> <p>Comprehensive owner's manual and installation guide for the OSD Nero Eclipse12 Subwoofer Landscape Light, detailing specifications, wiring, landscape wiring charts, and warranty information for both 70V and 4-ohm models.</p>
 <p>OSD NERO</p> <p>NERO ARC 4/6/8/SUB 70V/100V/8 Ohm PENDANT SPEAKERS INSTALL GUIDE</p>	<p>OSD Nero ARC Pendant Speakers Install Guide</p> <p>Installation guide for OSD Nero ARC 4/6/8/SUB 70V/100V/8 Ohm pendant speakers, covering preparation, hanging, setup, operation, specifications, troubleshooting, and warranty information.</p>
 <p>OSD AUDIO</p> <p>PAX50 COMPACT 70V COMMERCIAL AMP</p> <p>USER GUIDE</p>	<p>OSD Audio PAX50 Compact 70V/100V Commercial Amplifier User Guide</p> <p>User guide for the OSD Audio PAX50, a compact 70V/100V commercial amplifier. Details features, setup, connections, and specifications for this 50-watt Class D amplifier.</p>
 <p>OSD BLACK</p> <p>P83 PATIO SPEAKER (8" x 6" x 3")</p>	<p>OSD Black P83 Patio Speaker Installation Guide</p> <p>Detailed installation instructions for the OSD Black P83 8-inch 2-Way Patio Speaker, covering preparation, mounting, wiring, specifications, and warranty information.</p>