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› DS18 PRO-ZT Pro Audio Coaxial Midrange Speakers Instruction Manual

DS18 PRO-ZT

DS18 PRO-ZT Pro Audio Coaxial Midrange Speakers

Model: PRO-ZT | Brand: DS18

1. INTRODUCTION AND OVERVIEW

The DS18 PRO-ZT69 Midrange speaker is a 6x9-inch coaxial audio component designed for high-quality sound reproduction in car audio systems. It integrates a midrange driver and a built-in bullet tweeter into a single unit, offering a balanced sound profile with clear highs and robust mid-range performance. This speaker is built with a black steel basket and is water-resistant, making it suitable for various installation environments.



Figure 1.1: DS18 PRO-ZT69 6x9-inch coaxial speaker with its protective black mesh grill.

Key features of the DS18 PRO-ZT69 include:

- **Neodymium Excellence:** Utilizes neodymium magnets for superior magnetic flux density, contributing to exceptional sound quality.
- **Powerful Performance:** Delivers 550 Watts maximum power and 275 Watts RMS power with a 4-Ohm impedance.
- **Built-In Bullet Tweeter:** Features an integrated super tweeter for crisp and detailed high frequencies, complementing the midrange driver.
- **Water Resistant:** Designed to withstand exposure to moisture, making it suitable for outdoor or marine applications.

- **Rugged Protection:** Includes a sturdy grill to protect the speaker from physical damage.

2. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your DS18 PRO-ZT69 speakers. It is recommended that installation be performed by a qualified audio technician.

2.1 Unpacking and Inspection

- Carefully remove the speaker and included grill from its packaging.
- Inspect all components for any signs of damage during shipping. If damage is found, contact your retailer immediately.
- Verify that all included components are present: Mid-Range Loudspeaker, Protective Grill.

2.2 Mounting Considerations

The DS18 PRO-ZT69 is designed for flush mounting. Ensure the chosen mounting location provides sufficient depth and clearance for the speaker and its magnet structure.

PRO-ZT69

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**OVERALL
DIAMETER**
6.5"X9.27"
164.5X235.5MM



**MOUNTING
DEPTH**
3.35"
85MM



**FRONT MOUNT
BAFFLE CUT OUT**
5.9X8.6" / 150X219MM

Figure 2.1: Mounting dimensions for the DS18 PRO-ZT69 speaker.

- **Overall Diameter:** 6.5" x 9.27" (164.5mm x 235.5mm)
- **Mounting Depth:** 3.35" (85mm)
- **Front Mount Baffle Cut Out:** 5.9" x 8.6" (150mm x 219mm)
- Ensure the mounting surface is flat and stable to prevent vibrations and ensure a secure fit.

2.3 Wiring

Connect the speaker to an appropriate amplifier or head unit. The speaker has a 4-Ohm impedance and can handle up to 275W RMS power. Ensure your amplifier's output matches these specifications to prevent damage to the speaker or amplifier.

- Connect the positive (+) terminal of the speaker to the positive (+) output of the amplifier.
- Connect the negative (-) terminal of the speaker to the negative (-) output of the amplifier.
- Use appropriate gauge speaker wire for the power handling and length of the run to minimize signal loss.
- It is recommended to use a high-pass crossover set at 80Hz or higher to protect the speaker from low-frequency

distortion and optimize sound clarity.



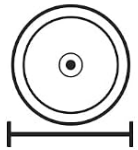
Figure 2.2: Details of the speaker's construction, including the water-resistant paper cone and ferrite magnet.

3. OPERATING INSTRUCTIONS

Once installed, the DS18 PRO-ZT69 speakers are ready for operation. Follow these guidelines for optimal audio performance:

- **Power On:** Turn on your audio source (head unit) and amplifier.
- **Volume Control:** Start with the volume at a low level and gradually increase it to your desired listening level. Avoid setting the volume to maximum for extended periods, as this can lead to distortion and potential speaker damage.
- **Audio Settings:** Adjust equalizer settings on your head unit or amplifier to fine-tune the sound. Given the speaker's frequency response of 60Hz - 22KHz, you can expect a wide range of sound reproduction.
- **Break-in Period:** Allow a break-in period of several hours of normal use for the speaker's suspension components to loosen up. This can improve overall sound quality.

NEW GRILLE DESIGN INCLUDED



6x9"
152.4 x 228.6mm



275W RMS Power



Impedance:
4 Ohms



Frequency Response:
60Hz - 22KHz

Figure 3.1: Key performance specifications of the DS18 PRO-ZT69 speaker.

4. MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your DS18 PRO-ZT69 speakers.

- **Cleaning:** Use a soft, dry cloth to wipe down the speaker and grill. For stubborn dirt, a slightly damp cloth can be used, but ensure no water enters the speaker cone or internal components.
- **Grill Protection:** The included grill provides protection against physical impact. Ensure it is securely attached.
- **Inspection:** Periodically check speaker connections for tightness and signs of corrosion. Inspect the speaker cone and surround for any tears or damage.
- **Water Resistance:** While water-resistant, avoid submerging the speaker or exposing it to high-pressure water jets. If exposed to water, allow it to air dry completely before prolonged use.



Figure 4.1: The DS18 PRO-ZT69 speaker with its protective grill.

5. TROUBLESHOOTING

If you experience issues with your DS18 PRO-ZT69 speakers, refer to the following common troubleshooting steps:

5.1 No Sound

- **Check Connections:** Ensure all speaker wires are securely connected to both the speaker terminals and the amplifier/head unit outputs. Verify correct polarity (+ to + and - to -).
- **Amplifier/Head Unit Power:** Confirm that your amplifier and head unit are powered on and functioning correctly. Check fuses if applicable.
- **Audio Source:** Ensure the audio source (e.g., radio, media player) is playing and not muted.
- **Volume Level:** Increase the volume gradually to an audible level.

5.2 Distorted Sound

- **Volume Level:** Reduce the volume. Distortion often occurs when the amplifier or speaker is overdriven.
- **Amplifier Gain Settings:** Check the gain settings on your amplifier. If set too high, it can cause clipping and distortion.
- **Crossover Settings:** Ensure your high-pass crossover is set appropriately (e.g., 80Hz) to prevent the speaker from trying to reproduce frequencies too low for its design.
- **Loose Connections:** Inspect all wiring for loose connections or frayed wires that could cause intermittent signals.
- **Speaker Damage:** Visually inspect the speaker cone and surround for any physical damage.

5.3 Intermittent Sound

- **Loose Wiring:** Check all speaker and power connections for looseness.

- **Overheating:** If the amplifier is overheating, it may go into protection mode, causing intermittent sound. Ensure adequate ventilation for the amplifier.

If these steps do not resolve the issue, contact DS18 customer support or a qualified audio technician.

6. SPECIFICATIONS

Detailed technical specifications for the DS18 PRO-ZT69 Pro Audio Coaxial Midrange Speaker:

Feature	Specification
Model Name	Mid-Range Loudspeaker with Built-in Bullet Tweeter
Speaker Type	Mid-Range Loudspeaker with Built-in Bullet Tweeter
Style	6x9-inches
Speaker Maximum Output Power	550 Watts
RMS Power	275 Watts
Impedance	4 Ohm
Frequency Response	60Hz - 22KHz
Signal-to-Noise Ratio	98 dB
Mounting Type	Flush Mount
Mounting Depth	3.35 inches (85mm)
Overall Diameter	6.5"D x 9.27"W (164.5mm x 235.5mm)
Front Mount Baffle Cut Out	5.9" x 8.6" (150mm x 219mm)
Magnet Material	Ferrite (with Neodymium for tweeter)
Voice Coil	1.5" Kapton (midrange), Kapton (tweeter)
Cone Material	Water Resistant Paper Cone
Is Waterproof	TRUE (Water Resistant)
Color	Black
Item Weight	5.49 Pounds
Included Components	Mid-Range Loudspeaker, Protective Grill
UPC	810005180771

The image shows a black DS18 PRO-ZT69 speaker and its matching grille. The speaker is on the left, featuring a large woofer cone and a central tweeter. The grille is on the right, with a black mesh design. The background is dark red with a bright red diagonal stripe. The DS18 logo is in the top right corner.

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PRO-ZT69

Figure 6.1: Visual summary of key specifications for the DS18 PRO-ZT69.

7. WARRANTY INFORMATION

The DS18 PRO-ZT69 speaker comes with a **Limited Warranty**. For specific details regarding the terms, conditions, and duration of the warranty, please refer to the official DS18 website or the warranty card included with your product. Keep your proof of purchase for warranty claims.

8. SUPPORT

For further assistance, technical support, or inquiries regarding your DS18 PRO-ZT69 speakers, please contact DS18 customer service through their official channels.

- **Official Website:** Visit the official DS18 website for product information, FAQs, and contact details.
- **Online Store:** You can also visit the [DS18 Store on Amazon](#) for product listings and additional resources.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question