

DS18 ZXI8.4D

DS18 ZXI8.4D 8-inch High Excursion Car Audio Subwoofer Instruction Manual

Model: ZXI8.4D

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your DS18 ZXI8.4D 8-inch High Excursion Car Audio Subwoofer. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and safety. The DS18 ZXI8.4D is designed to deliver powerful, clear bass for your car audio system.



Image 1.1: Front view of the DS18 ZXI8.4D Subwoofer.

2. PRODUCT FEATURES

The DS18 ZXI8.4D subwoofer incorporates advanced design and materials for superior audio performance:

- **High Excursion Design:** Engineered for significant cone movement, allowing for deep and impactful bass reproduction.
- **Dual Voice Coil (DVC) 4-Ohm:** Offers flexible wiring options to match various amplifier configurations.
- **2-inch Voice Coil:** Constructed to handle high power levels efficiently, minimizing distortion.
- **Large Foam Surround:** Contributes to the high excursion capability and helps produce smooth, crisp bass.
- **Pressed Paper Cone:** Provides a balance of rigidity and lightness for accurate sound reproduction.
- **Low Fs (Resonance Frequency):** Suitable for use in various enclosure types, including larger boxes with lower tuning.
- **Strong Stamped Basket:** Features an exclusive DS18 design for durability and structural integrity.



Image 2.1: Key features of the DS18 ZXI8.4D Subwoofer.

3. PACKAGE CONTENTS

Upon opening the package, verify that all items are present and undamaged:

- DS18 ZXI8.4D 8-inch High Excursion Car Audio Subwoofer (1 unit)
- Instruction Manual (this document)

4. SPECIFICATIONS

Refer to the table below for detailed technical specifications of the DS18 ZXI8.4D subwoofer:

Specification	Value
Model Name	ZXI
Speaker Type	Subwoofer
Special Feature	High Excursion

Specification	Value
Recommended Uses	Car Audio
Compatible Devices	Car Stereo, Amplifier
Subwoofer Diameter	8 Inches
Color	Black
Product Dimensions (D x W x H)	8.58"D x 8.58"W x 6.83"H
Item Weight	13.87 pounds (6.31 Kilograms)
Impedance	4 Ohm (Dual Voice Coil)
Speaker Maximum Output Power	1200 Watts (Max) / 600 Watts (RMS)
Connectivity Technology	Wired (RCA)
Frequency Response	25Hz - 880Hz
Sensitivity	86 dB
Magnet Weight	104 Oz (4 x 26 oz) Ferrite Magnet
Voice Coil Diameter	2 Inches
Mounting Depth	5.51" / 140mm
Front Mount Baffle Cut Out	7.31" / 185.8mm

ZXI8.4D

DS18



**OVERALL
DIAMETER**
8.58"
218MM



**MOUNTING
DEPTH**
5.51" / 140MM



**FRONT MOUNT
BAFFLE CUT OUT**
7.31" / 185.8MM

Image 4.1: Dimensional specifications for installation.

5. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your subwoofer. It is highly recommended that installation be performed by a qualified professional.

5.1 Safety Precautions

- Disconnect the vehicle's negative battery terminal before starting any electrical work.
- Ensure all wiring is properly insulated and secured to prevent shorts and damage.
- Use appropriate gauge wiring for power, ground, and speaker connections.
- Mount the subwoofer securely to prevent movement during vehicle operation.

5.2 Enclosure Considerations

The ZXI8.4D subwoofer performs well in both sealed and ported enclosures. The choice of enclosure will affect the subwoofer's sound characteristics:

- **Sealed Enclosures:** Typically provide tighter, more accurate bass response, suitable for musicality.
- **Ported Enclosures:** Generally offer louder output and deeper bass extension, often preferred for SPL (Sound Pressure Level) applications.

Consult a car audio specialist or refer to specific enclosure design guidelines for optimal performance based on your preferences and vehicle.

5.3 Wiring the Dual Voice Coil (DVC) Subwoofer

The ZXI8.4D features a dual 4-ohm voice coil. This allows for various wiring configurations to achieve different final impedances, which must match your amplifier's stable operating impedance.

- **Parallel Wiring (2 Ohms):** Connect the positive terminals of both voice coils together, and the negative terminals of both voice coils together. Connect the amplifier's output to these combined terminals. This configuration results in a 2-ohm load.
- **Series Wiring (8 Ohms):** Connect the positive terminal of one voice coil to the negative terminal of the other voice coil. Connect the amplifier's positive output to the remaining positive terminal and the amplifier's negative output to the remaining negative terminal. This configuration results in an 8-ohm load.

Caution: Incorrect wiring can damage your amplifier or subwoofer. Always verify the final impedance before connecting to an amplifier.

6. OPERATING INSTRUCTIONS

6.1 Amplifier Matching and Settings

Ensure your amplifier is capable of providing sufficient power (600W RMS) at the chosen impedance. Set amplifier gains carefully to avoid clipping and distortion, which can damage the subwoofer.

- **Gain Setting:** Start with the amplifier gain at its minimum. Gradually increase the gain until the desired volume is reached without audible distortion.
- **Low-Pass Filter (LPF):** Set the LPF on your amplifier or head unit to filter out high frequencies, typically between 60Hz and 100Hz, depending on your system and preference.
- **Subsonic Filter:** If available, set the subsonic filter to protect the subwoofer from playing frequencies below its resonant frequency, especially in ported enclosures.

6.2 Break-in Period

Allow a break-in period of approximately 20-30 hours of moderate listening before operating the subwoofer at high volumes. This allows the suspension components (surround and spider) to loosen up, improving performance and longevity.

7. MAINTENANCE

The DS18 ZXI8.4D subwoofer requires minimal maintenance to ensure long-term performance:

- **Cleaning:** Periodically wipe the cone and surround with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Regularly inspect the subwoofer for any signs of damage to the cone, surround, or wiring connections. Ensure mounting screws remain tight.
- **Environment:** Protect the subwoofer from extreme temperatures, direct sunlight, and moisture.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Sound	No power to amplifier; loose wiring; incorrect input signal; amplifier in protect mode.	Check amplifier power and ground connections. Verify RCA input signal. Inspect all speaker wires for secure connection. Check amplifier status indicator.
Distorted Sound	Amplifier gain set too high; incorrect LPF setting; damaged voice coil; enclosure issues.	Reduce amplifier gain. Adjust LPF. Inspect subwoofer cone and voice coil for physical damage. Verify enclosure integrity.
Weak Bass	Incorrect wiring impedance; insufficient amplifier power; phase issues; improper enclosure.	Confirm correct voice coil wiring for desired impedance. Ensure amplifier provides adequate power. Check phase setting on amplifier/head unit. Review enclosure design.

If problems persist after troubleshooting, contact DS18 customer support or a qualified car audio technician.

9. WARRANTY INFORMATION

The DS18 ZXI8.4D Subwoofer is covered by a **Limited Warranty**. This warranty typically covers defects in materials and workmanship under normal use for a specified period from the date of purchase. It does not cover damage resulting from improper installation, abuse, accident, neglect, unauthorized repair, or modification.


For specific warranty terms, conditions, and claim procedures, please refer to the warranty card included with your product or visit the official DS18 website. Retain your proof of purchase for warranty service.






10. SUPPORT

For technical assistance, product inquiries, or warranty claims, please contact DS18 customer support through their official website or the contact information provided with your purchase documentation.

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Related Documents - ZXI8.4D

	<p>DS18 EXL-XX15.4DHE 15-Inch High Excursion Subwoofer Owner's Manual</p> <p>Owner's manual for the DS18 EXL-XX15.4DHE 15-inch high excursion subwoofer, detailing specifications, Thiele & Small parameters, and recommended enclosure dimensions for ported and sealed boxes. Includes technical data and measurements.</p>
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	<p>DS18 EXL-XX15.2DHE 15-Inch High Excursion Subwoofer Owner's Manual</p> <p>Owner's manual for the DS18 EXL-XX15.2DHE 15-inch high excursion subwoofer, detailing specifications, Thiele & Small parameters, and recommended enclosure dimensions for ported and sealed boxes.</p>
	<p>DS18 ZXi12.4D High Excursion 12" Subwoofer Owner's Manual</p> <p>Detailed owner's manual for the DS18 ZXi12.4D High Excursion 12-inch Dual Voice Coil (DVC) 4-ohm subwoofer, including specifications, dimensions, and performance data.</p>
	<p>DS18 PSW12.2D 12-Inch Dual Voice Coil Shallow Subwoofer Owner's Manual</p> <p>This owner's manual provides comprehensive specifications, Thiele & Small parameters, recommended enclosure details, and measurement data for the DS18 PSW12.2D 12-inch dual voice coil shallow subwoofer. It also includes warranty information and important safety warnings.</p>
	<p>DS18 IXS10.4D 10-Inch Shallow Subwoofer Owner's Manual and Specifications</p> <p>Comprehensive owner's manual for the DS18 IXS10.4D 10-inch shallow subwoofer. Features detailed specifications, Thiele & Small parameters, physical dimensions, and recommended enclosure dimensions for optimal performance.</p>
	<p>DS18 PSW10.2D 10" Dual Voice Coil Shallow Subwoofer Owner's Manual</p> <p>Owner's manual for the DS18 PSW10.2D 10-inch dual voice coil shallow subwoofer, including specifications, Thiele & Small parameters, recommended enclosure, and measurements.</p>



[\[pdf\]](#) User Manual Owner's Manual Specifications Dimension Guide

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OWNER S MANUAL MANUAL DE USUARIO ZXI8.4D 8 HIGH EXCURSION
SUBWOOFER SUBWOOFER DE 8 DE ALTA EXCURSIN ENGLISH ESPAOL

ZXI8.4D 8- 0.16 /4mm 8.58 /218mm 7.87 /200mm 6.83 /173.5mm 5.51 /140mm 6.08
/154.5mm 5.27 /134mm 7.32 /185.85mm ZXI8.4D RECOMMENDED BOX
DIMENSION DIMENSIONES DE CAJA RECO...

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[\[pdf\]](#) User Manual Owner's Manual Specifications

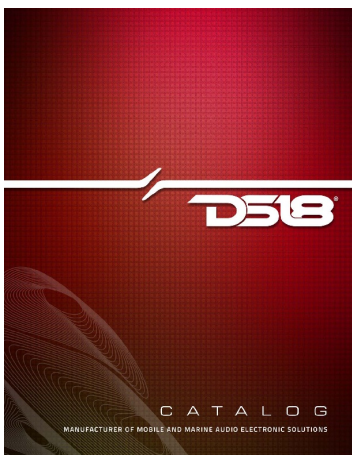
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OWNER S MANUAL MANUAL DE USUARIO ZXI8.4D 8 HIGH EXCURSION
SUBWOOFER SUBWOOFER DE 8 DE ALTA EXCURSIN ENGLISH ESPAOL

ZXI8.4D 8- 0.16 /4mm 8.58 /218mm 7.87 /200mm 6.83 /173.5mm 5.51 /140mm 6.08
/154.5mm 5.27 /134mm 7.32 /185.85mm SPECIFICATIONS / ESPECIFICACIONES:
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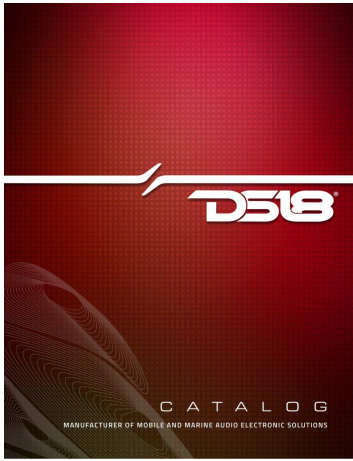
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