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› [HERTZ](#) /

› [HERTZ Dieci Series DS-303 12-inch Subwoofer Instruction Manual](#)

HERTZ DS-303

HERTZ Dieci Series DS-303 12-inch Subwoofer Instruction Manual

Model: DS-303

INTRODUCTION

Thank you for choosing the HERTZ Dieci Series DS-303 Subwoofer. This manual provides essential information for the proper installation, operation, and maintenance of your subwoofer. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your product.

The HERTZ Dieci Series DS-303 is a 12-inch (300mm) car audio subwoofer designed for high efficiency and exceptional power handling. It features a polypropylene membrane and butyl rubber surround for high excursion with minimal distortion. An efficient cooling system ensures optimal heat dissipation. This subwoofer is suitable for use in compact sealed or reflex enclosures.

SAFETY INFORMATION

Always observe the following safety precautions:

- Disconnect the vehicle's battery negative terminal before starting any installation work to prevent electrical shorts.
- Ensure all wiring is properly insulated and secured to prevent damage from vibration or sharp edges.
- Do not install the subwoofer in locations that obstruct the driver's view or interfere with vehicle safety systems (e.g., airbags).
- Use appropriate gauge wiring for power and speaker connections to handle the subwoofer's power requirements.
- Avoid exposing the subwoofer to excessive moisture or direct sunlight.
- Consult a professional installer if you are unsure about any part of the installation process.

WHAT'S IN THE Box

Upon unpacking, please ensure all items are present:

- HERTZ Dieci Series DS-303 Subwoofer
- Instruction Manual (this document)
- Mounting Screws (if included by manufacturer)

Note: Additional accessories such as speaker wire, amplifier, and enclosure are sold separately.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. This section outlines general guidelines. Specific enclosure design and wiring diagrams may vary based on your vehicle and amplifier setup.

1. Enclosure Selection and Preparation

The DS-303 subwoofer is designed for use in compact sealed or reflex (vented) enclosures. Refer to the subwoofer's specifications for recommended enclosure volumes.



Image: Rear view of the HERTZ Dieci Series DS-303 Subwoofer, displaying the magnet structure and wiring terminals.

- Ensure the enclosure is robust and free from air leaks.
- Cut a circular opening in the enclosure baffle that matches the subwoofer's mounting diameter.
- Pre-drill pilot holes for the mounting screws to prevent damage to the enclosure or subwoofer frame.

2. Wiring Connections

The DS-303 features a 4-Ohm Single Voice Coil (SVC). Connect the subwoofer to a compatible amplifier output.



Image: Front view of the HERTZ Dieci Series DS-303 Subwoofer, highlighting the polypropylene cone.

- Connect the positive (+) terminal of the subwoofer to the positive (+) terminal of the amplifier's subwoofer output.
- Connect the negative (-) terminal of the subwoofer to the negative (-) terminal of the amplifier's subwoofer output.
- Ensure all connections are secure and free from short circuits.
- Use appropriate gauge speaker wire for the power handling of the subwoofer and the distance to the amplifier.

3. Mounting the Subwoofer



Image: Angled view of the HERTZ Dieci Series DS-303 Subwoofer, showing the robust frame and mounting holes.

- Carefully place the subwoofer into the prepared opening in the enclosure.
- Align the mounting holes on the subwoofer frame with the pre-drilled holes in the enclosure.
- Secure the subwoofer using the provided mounting screws. Tighten screws evenly in a crisscross pattern to ensure a tight, even seal. Do not overtighten.

OPERATING INSTRUCTIONS

Once installed, follow these steps to operate your HERTZ DS-303 Subwoofer:

1. **Initial Power-Up:** After all connections are made and verified, reconnect the vehicle's battery. Turn on your car

audio system.

2. **Amplifier Settings:** Adjust the gain, crossover frequency, and phase settings on your amplifier according to your system's requirements and personal preference. Start with low gain and gradually increase.
3. **Break-in Period:** Allow a break-in period of approximately 10-20 hours of normal listening at moderate volumes. This allows the subwoofer's suspension components to loosen and achieve optimal performance.
4. **Volume Control:** Avoid operating the subwoofer at excessively high volumes for extended periods, as this can lead to overheating and damage. If you hear distortion, reduce the volume immediately.

MAINTENANCE

The HERTZ DS-303 Subwoofer requires minimal maintenance to ensure long-lasting performance:

- **Cleaning:** Use a soft, dry cloth to gently wipe the cone and surround. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically inspect the subwoofer for any signs of damage to the cone, surround, or dust cap. Check wiring connections for tightness and corrosion.
- **Environmental Protection:** Keep the subwoofer free from dust, debris, and extreme temperatures.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No sound from subwoofer	Amplifier not powered on Loose or incorrect wiring Amplifier in protect mode Head unit settings	Check amplifier power and ground connections. Verify all speaker and RCA connections. Check amplifier fuses. Disconnect power, wait, then reconnect. Ensure subwoofer output is enabled and volume is up on head unit.
Distorted or unclear bass	Amplifier gain too high Incorrect crossover settings Subwoofer over-exursion Enclosure issues	Reduce amplifier gain. Adjust low-pass filter (LPF) on amplifier or head unit. Reduce volume. Check enclosure for air leaks or damage.
Subwoofer gets hot	Overpowering the subwoofer Improper impedance match Insufficient cooling	Reduce volume or amplifier gain. Ensure amplifier impedance matches subwoofer (4 Ohm). Ensure adequate ventilation around the subwoofer and amplifier.

If the problem persists after trying these solutions, contact HERTZ customer support or a qualified car audio technician.

TECHNICAL SPECIFICATIONS

Feature	Specification
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Feature	Specification
Model	DS-303
Size	300 mm (12 inches)
Power Handling (Peak)	1000 W
Power Handling (Continuous RMS)	250 W
Impedance	4 Ω (Ohm)
Frequency Response	28 • 300 Hz
Sensitivity	91 dB SPL
Voice Coil Diameter	38 mm (1.5 inches)
Magnet Material	High density flux ferrite
Cone Material	Polypropylene with Mica injection
Surround Material	Butyl rubber
Xmax (Maximum Linear Excursion)	9 mm
Item Weight	8.8 Pounds (4 kg)
Connectivity Technology	Wired
Manufacturer	Electtromedia

WARRANTY INFORMATION

The HERTZ Dieci Series DS-303 Subwoofer comes with a Limited Warranty. Please refer to the warranty card included with your product or visit the official HERTZ website for detailed terms and conditions. This warranty typically covers manufacturing defects for a specified period from the date of purchase.

Note: Damage caused by improper installation, abuse, accident, or unauthorized modifications is not covered under warranty.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact HERTZ customer support:

- **Website:** www.hertzaudio.com
- **Email:** Refer to the official website for contact forms or email addresses.
- **Phone:** Refer to the official website for regional contact numbers.

When contacting support, please have your product model (DS-303) and proof of purchase readily available.

