

Gladen RS-X-10

Gladen RS-X 10 High Performance 10" Subwoofer User Manual

Model: RS-X-10 | Brand: Gladen

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Gladen RS-X 10 High Performance 10" Subwoofer. Please read this manual thoroughly before using the product to ensure proper function and longevity.

The Gladen RS-X 10 is a high-performance 10-inch subwoofer designed for superior audio reproduction. Key features include:

- Cone: Paper
- Surround: Foam
- Basket: Aluminum
- Spider: Nomex
- Coil Former: Aluminum

WHAT'S IN THE BOX

Upon unpacking, please verify that all components are present and undamaged:

- 1 x Gladen RS-X 10 Subwoofer

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. It is recommended that installation be performed by a qualified professional.

Mounting Considerations

- Ensure the mounting surface is sturdy and free from obstructions.
- The subwoofer is designed for flush mounting. Refer to the specifications for installation diameter (238 mm / 9.37 inch) and depth (140 mm / 5.51 inch).
- Consider the recommended enclosure volumes: 32 liters for a vented box or 22 liters for a sealed box.

Wiring

- Connect the subwoofer to a suitable amplifier capable of delivering the required power (300/450 Watt RMS).

- Ensure correct polarity when connecting the speaker wires to avoid phase issues. The subwoofer has a 4 Ohm impedance.
- Use appropriate gauge wiring to minimize power loss and ensure stable operation.

OPERATING INSTRUCTIONS

Once installed, the Gladen RS-X 10 Subwoofer operates as part of your audio system. Follow these general guidelines for optimal performance:

- **Initial Power-Up:** After installation, turn on your audio system at a low volume level. Gradually increase the volume to ensure all components are functioning correctly.
- **Break-in Period:** Allow a break-in period of several hours of normal listening before operating the subwoofer at high volumes. This allows the suspension components to loosen and perform optimally.
- **Volume Control:** Adjust the subwoofer's gain and crossover settings on your amplifier or head unit to blend seamlessly with your main speakers. Avoid excessive gain settings that can lead to distortion or damage.
- **Listening Environment:** The acoustic properties of your vehicle or listening space will affect the subwoofer's sound. Experiment with placement and settings to achieve the desired bass response.

MAINTENANCE

The Gladen RS-X 10 Subwoofer is designed for durability and requires minimal maintenance. Following these simple steps will help ensure its longevity:

- **Cleaning:** Use a soft, dry cloth to gently wipe down the subwoofer cone and surround. Avoid using harsh chemicals or abrasive cleaners.
- **Environmental Protection:** Protect the subwoofer from extreme temperatures, direct sunlight, and moisture. While not waterproof, it is built to withstand typical automotive environments.
- **Regular Inspection:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Inspect the cone and surround for any signs of damage.

TROUBLESHOOTING

If you experience issues with your Gladen RS-X 10 Subwoofer, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Sound from Subwoofer	Loose or incorrect wiring Amplifier not powered on or in protect mode Head unit settings incorrect	Check all speaker and power connections. Verify amplifier power and status indicators. Ensure subwoofer output is enabled and gain is set appropriately on your head unit.
Distorted Sound	Gain set too high Clipping from amplifier Damaged subwoofer	Reduce amplifier gain or head unit volume. Ensure amplifier is not overdriven. Inspect the cone and surround for physical damage.
Weak Bass Output	Incorrect phase Crossover frequency set too high or low Subwoofer enclosure issues	Check wiring polarity. Adjust crossover settings on amplifier or head unit. Verify enclosure volume and sealing.

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

SPECIFICATIONS

Feature	Detail
Model Name	RS-X-10
Speaker Type	Subwoofer
Subwoofer Diameter	10 Inches (25 cm)
Power Handling (RMS/Peak)	300W / 450W
Nominal Impedance	4 Ohms
DC Resistance (Re)	3.74 Ohms
Resonance Frequency (Fs)	35.57 Hz
Voice Coil Diameter	2.5 inches
Xmax	10 mm
Moving Mass (Mms)	121.6 g
Effective Piston Area (Sd)	346 cm²
Mechanical Resistance (Rms)	4.79 Kg/s
Compliance (Cms)	0.16 mm/N
Force Factor (Bl)	13.82 Tm
Equivalent Air Volume (Vas)	27.69 dm³
Recommended Vented Box Volume	32 liters
Recommended Sealed Box Volume	22 liters
External Diameter	263 mm / 10.35 inch
Installation Diameter	238 mm / 9.37 inch
Installation Depth	140 mm / 5.51 inch
Magnet Diameter	162 mm / 6.38 inch
Cone Material	Paper
Surround Material	Foam
Basket Type	Vented Die-Cast Aluminum
Spider Material	Nomex
Dust Cap	PP-dust cap
Item Weight	13 Pounds

Feature	Detail
Mounting Type	Flush Mount
Connectivity Technology	Wired
Waterproof	No

PRODUCT IMAGES



Front view of the Gladen RS-X 10 Subwoofer, showcasing the paper cone, foam surround, and Gladen branding on the dust cap. Red stitching is visible on the surround.



Angled rear view of the Gladen RS-X 10 Subwoofer, highlighting the vented die-cast basket, magnet structure, and speaker terminals.



Close-up view of the Gladen RS-X 10 Subwoofer's cone and dust cap, clearly showing the "GLADEN" logo and the texture of the paper cone and foam surround.

WARRANTY AND SUPPORT

The Gladen RS-X 10 Subwoofer comes with a **Limited Warranty**. For specific terms and conditions of this warranty, please refer to the documentation included with your purchase or contact Gladen customer support. Extended protection plans may be available for purchase separately to provide additional coverage beyond the standard manufacturer's warranty. Please check with your retailer for details on available plans. For technical support, service, or warranty claims, please contact Gladen customer service through their official website or the contact information provided with your product.



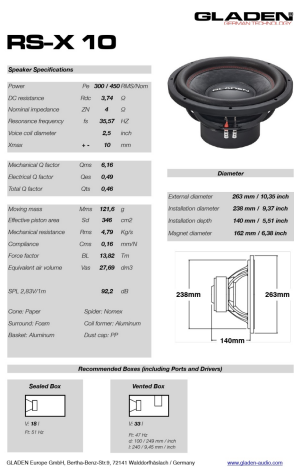


[\[pdf\]](#) User Manual Owner's Manual

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RS-X 10 Speaker Specifications

Resonance frequency Voice coil diameter Xmax Pe 300 / 450 RMS/Nom Rdc 3,74 ZN

4 fs 35,57 HZ 2,5 inch - 10 mm Mechanical Q factor Electrical Q factor Total Q factor

Qms 6,16 Qes 0,49 Qts 0,46 Moving mass Effective pis...

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[\[pdf\]](#) Specifications

RS X 10 Speaker Specifications Power Pe 300 450 RMS Nom DC resistance Rdc 3 74 Ω Nominal

impedance ZN 4 Resonance frequency fs 35 57 HZ Voice coil diameter 2 5 inch Xmax mm Mechanical Q

factor Qms 6 16 Electrical Qes 0 49 Total Qts 46 Moving mass Mms 121 g Effective piston area Sd 346

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