

## Gladen RS-X-08

# Gladen RS-X-08 High Performance 8" Subwoofer User Manual

Model: RS-X-08

## 1. INTRODUCTION

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Thank you for choosing the Gladen RS-X-08 High Performance 8" Subwoofer. This manual provides essential information for the proper installation, operation, and maintenance of your new subwoofer. Please read this manual thoroughly before installation and keep it for future reference.

The Gladen RS-X-08 is designed to deliver powerful and precise bass reproduction, enhancing your audio experience. It features a robust construction with a vented die-cast basket, black Nomex spider, paper cone, and PP-dust cap, ensuring durability and high performance.

## 2. SAFETY INFORMATION

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- Always disconnect the vehicle's battery before performing any electrical work.
- Ensure all wiring is correctly routed and secured to prevent damage or short circuits.
- Do not expose the subwoofer to excessive moisture or extreme temperatures.
- Use appropriate gauge wiring for power and speaker connections to avoid overheating.
- Consult a professional installer if you are unsure about any installation steps.
- Operating the subwoofer at excessively high volumes for prolonged periods can cause hearing damage.

## 3. PRODUCT FEATURES

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The Gladen RS-X-08 subwoofer incorporates advanced design and materials for superior audio performance:

- **Cone:** Paper for optimal sound reproduction.
- **Surround:** Foam for flexibility and excursion.
- **Basket:** Vented die-cast aluminum for rigidity and heat dissipation.
- **Spider:** Black Nomex for durability and precise cone control.
- **Dust Cap:** PP-dust cap.
- **Voice Coil:** Aluminum former.
- **Impedance:** 4 Ohm nominal impedance.
- **Power Handling:** 250 Watts RMS / 375 Watts Peak.



Figure 3.1: Front view of the Gladen RS-X-08 Subwoofer, showing the paper cone, foam surround, and Gladen logo on the dust cap.

## 4. SPECIFICATIONS

Table 4.1: Gladen RS-X-08 Subwoofer Specifications

Parameter	Value
Speaker Type	Subwoofer
Subwoofer Diameter	8 Inches (20 cm)
RMS Power Handling	250 Watts
Peak Power Handling	375 Watts
Nominal Impedance	4 Ohms

Parameter	Value
DC Resistance (Re)	3.75 Ohms
Resonance Frequency (Fs)	43.02 Hz
Voice Coil Diameter	2 Inches
Xmax	8mm
Moving Mass (Mms)	99.39g
Effective Piston Area (Sd)	216 cm <sup>2</sup>
Mechanical Resistance (Rms)	4.79 kg/s
Compliance (Cms)	0.14 mm/N
Force Factor (Bl)	11.35 Tm
Equivalent Air Volume (Vas)	9.02 dm <sup>3</sup>
External Diameter	216 mm (8.50 inch)
Installation Diameter	183 mm (7.20 inch)
Installation Depth	104 mm (4.09 inch)
Magnet Diameter	126 mm (4.96 inch)
Recommended Enclosure (Vented)	18 liters
Recommended Enclosure (Sealed)	12 liters



Figure 4.1: Rear view of the Gladen RS-X-08 Subwoofer, highlighting the vented basket and speaker terminals.

## 5. SETUP AND INSTALLATION

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Proper installation is crucial for optimal performance and longevity of your subwoofer. It is highly recommended to have the subwoofer installed by a qualified professional.

### 5.1 Enclosure Recommendations

The RS-X-08 is designed to perform well in both sealed and vented enclosures:

- **Vented Box:** Approximately 18 liters (0.64 cubic feet).
- **Sealed Box:** Approximately 12 liters (0.42 cubic feet).

Ensure the enclosure is robust, airtight (for sealed), and properly braced to prevent rattles and vibrations.

### 5.2 Wiring Connections

The RS-X-08 has a 4 Ohm nominal impedance. Connect the subwoofer to a suitable amplifier capable of delivering the



required power (250-375 Watts RMS) at a 4 Ohm load.

- Connect the positive (+) terminal of the subwoofer to the positive (+) output of the amplifier.
- Connect the negative (-) terminal of the subwoofer to the negative (-) output of the amplifier.
- Use high-quality speaker wire of appropriate gauge (e.g., 12-14 gauge) for runs up to 10 feet.



Figure 5.1: Close-up view of the Gladen RS-X-08 Subwoofer's cone and foam surround, showing the red stitching detail.

### 5.3 Mounting

The subwoofer requires an installation diameter of 183 mm (7.20 inches) and an installation depth of 104 mm (4.09 inches). Ensure sufficient clearance behind the mounting surface for proper ventilation and magnet clearance.

## 6. OPERATING INSTRUCTIONS

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Once installed, follow these guidelines for optimal operation:

- **Break-in Period:** Allow a break-in period of approximately 20-30 hours of normal listening before pushing the

subwoofer to its limits. This allows the suspension components to loosen up and perform optimally.

- **Gain Setting:** Set the amplifier gain correctly to match the output voltage of your head unit. Incorrect gain settings can lead to distortion and potential damage to the subwoofer.
- **Crossover Settings:** Use a low-pass filter (LPF) on your amplifier or head unit to send only low frequencies to the subwoofer. A typical LPF setting for an 8-inch subwoofer might be between 60Hz and 100Hz, depending on your system and preferences.
- **Subsonic Filter:** If your amplifier has a subsonic filter, enable it and set it slightly below your enclosure's tuning frequency (for vented enclosures) or around 25-30Hz (for sealed enclosures) to protect the subwoofer from over-excursion at very low frequencies.
- **Volume Control:** Avoid prolonged listening at maximum volume levels, especially if you notice any distortion. Distortion indicates that the amplifier or subwoofer is being overdriven.

## 7. MAINTENANCE

The Gladen RS-X-08 subwoofer requires minimal maintenance:

- Keep the subwoofer clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Periodically check all wiring connections to ensure they are secure and free from corrosion.
- Avoid spilling liquids on the subwoofer.
- Do not apply excessive pressure to the cone or surround.

## 8. TROUBLESHOOTING

Table 8.1: Common Troubleshooting Guide

Problem	Possible Cause	Solution
No sound from subwoofer	No power to amplifier	Check amplifier power, ground, and remote turn-on connections.
	Loose or incorrect speaker wiring	Verify all speaker wire connections at both the subwoofer and amplifier.
	Amplifier in protect mode	Check amplifier for fault codes or overheating.
	Head unit settings incorrect	Ensure subwoofer output is enabled and volume is up on head unit.
Distorted sound	Amplifier gain set too high	Reduce amplifier gain.
	Clipping from head unit	Lower head unit volume.
	Incorrect crossover settings	Adjust LPF and subsonic filter settings.
	Damaged subwoofer	Inspect subwoofer cone and surround for physical damage.
Weak or muddy bass	Incorrect enclosure volume	Verify enclosure dimensions match recommendations.
	Phase issue	Check phase setting on amplifier or head unit.
	Insufficient amplifier power	Ensure amplifier provides adequate power for the subwoofer.

## 9. WARRANTY AND SUPPORT

Gladen products are manufactured to the highest quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or contact your authorized Gladen dealer. Keep your proof of purchase for warranty claims.

For technical support or service inquiries, please contact your local Gladen distributor or visit the official Gladen website for contact information.


Website: [www.gladen.com](http://www.gladen.com)

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Related Documents - RS-X-08

	<p><a href="#">DS18 GEN-X104D 10-Inch Subwoofer Owner's Manual and Specifications</a></p> <p>Detailed owner's manual, specifications, and recommended enclosure dimensions for the DS18 GEN-X104D 10-inch subwoofer. Includes technical data, Thiele &amp; Small parameters, and box design guidelines.</p>
	<p><a href="#">DS18 GEN-X154D 15-Inch Subwoofer Owner's Manual and Specifications</a></p> <p>Detailed owner's manual and technical specifications for the DS18 GEN-X154D 15-inch subwoofer, including dimensions, power handling, Thiele &amp; Small parameters, and recommended enclosure designs.</p>
	<p><a href="#">Electro-Voice 15BX 15-Inch Long-Throw Bass Guitar Loudspeaker - Specifications &amp; Overview</a></p> <p>Detailed overview and technical specifications for the Electro-Voice 15BX 15-inch long-throw bass guitar loudspeaker, including frequency response, power handling, dimensions, mounting, and warranty information.</p>
	<p><a href="#">Smartrise Hydro:Evolved User Manual Addendum - Version 1.0</a></p> <p>User manual addendum for the Smartrise Hydro:Evolved system, detailing parameter configurations for leveling, offsets, NTS/TSRD, and valve control. Version 1.0.</p>
	<p><a href="#">RS PRO Workwear Range Guide: T-Shirts, Polo Shirts, Sweatshirts, Jackets, Trousers &amp; Shorts</a></p> <p>Comprehensive guide to the RS PRO workwear range, detailing T-shirts, polo shirts, sweatshirts, fleeces, jackets, trousers, and shorts. Includes product specifications, materials, features, and sizing information.</p>



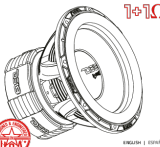


OWNER'S MANUAL  
MANUAL DEL USUARIO

HOOL-X12.1DHE

12" COMPETITION HIGH  
EXCURSION SUBWOOFER

1-10



1000W x 1000W

[DS18 HOOL-X12.1DHE 12" Competition High Excursion Subwoofer Owner's Manual](#)

Owner's manual for the DS18 HOOL-X12.1DHE 12-inch competition high excursion subwoofer, detailing specifications, dimensions, and recommended enclosure designs for optimal performance.

Documents - Gladen – RS-X-08



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

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**RS-X 08**

**Speaker Specifications**

Power	Pe 250 / 375 W RMS/Nom
DC resistance	Rdc 3,75 $\Omega$
Nominal impedance	ZN 4 $\Omega$
Resonance frequency	fs 43,02 Hz
Voice coil diameter	2 inch
Xmax	8 mm

Mechanical Q factor	Qms 6,09
Electrical Q factor	Qes 0,72
Total Q factor	Qts 0,64

Moving mass	Mms 98,39 g
Effective piston area	Sd 216 cm <sup>2</sup>
Mechanical resistance	Rms 4,79 N/s
Compliance	Cms 0,34 mm/N
Force factor	BL 13,35 Tm
Equivalent air volume	Vas 8,02 dm <sup>3</sup>

SP1 2,65V/Tm

98,1 g

Cone: Paper	Spider: Nomex
Surround: Foam	Cat former: Aluminum
Basket: Aluminum	Dust cap: PP



**Dimensions**

External diameter	216 mm / 8.50 inch
Insulation diameter	160 mm / 6.29 inch
Insulation depth	104 mm / 4.09 inch
Magnet diameter	128 mm / 5.04 inch

**Recommended Boxes (including Ports and Drivers)**

<b>Sealed Box</b>	<b>Ventil Box</b>
 <p>V: 81 H: 314</p>	 <p>V: 81 H: 314 L: 170-180 mm (max)</p>

[\[pdf\]](#) Specifications

RS X08 RSX08 Technische Daten Index of Anleitungen Gladen caraudio store de |||

RS-X 08 Speaker Specifications Power DC resistance Nominal impedance Resonance frequency Voice coil diameter Xmax Pe 250 / 375 RMS/Nom Rdc 3,75 ZN 4 fs 43,02 HZ 2 inch - 8 mm Mechanical Q factor Electrical Q factor Total Q factor Qms 6,09 Qes 0,72 Qts 0,64 Moving mass Effective pisto... lang:en score:20 filesize: 211.39 K page\_count: 1 document date: 2015-12-23



