

Sound Town STLF-08VS

Sound Town STLF-08VS 8-inch Raw Woofer Instruction Manual

Model: STLF-08VS

1. INTRODUCTION

The Sound Town STLF-08VS is an 8-inch universal replacement low-frequency driver designed for PA/DJ speakers and subwoofers. This woofer is compatible with Sound Town CARME-208S and CARME-208SPW subwoofers, as well as other speaker systems utilizing 8-inch woofers. This manual provides essential information for the proper installation, operation, and maintenance of your STLF-08VS woofer.

2. SAFETY INFORMATION

- **Power Handling:** Do not exceed the rated power handling capacity of 200W RMS (400W program) to prevent damage to the woofer.
- **Impedance Matching:** Ensure the amplifier's output impedance matches the woofer's 8-ohm impedance to avoid amplifier or speaker damage.
- **Proper Enclosure:** Install the woofer in a suitable enclosure designed for its size and specifications to achieve optimal performance and prevent damage.
- **Wiring:** Use appropriate gauge speaker wire for connections. Ensure correct polarity (+ to + and - to -) to maintain proper phase.
- **Handling:** Handle the woofer carefully. Avoid touching the cone or voice coil directly.

3. WHAT'S IN THE BOX

- 1 x Sound Town STLF-08VS 8-inch Raw Woofer

4. KEY FEATURES

- 8-inch pressed steel frame replacement woofer (low frequency driver)
- Compatible with Sound Town CARME-208S and CARME-208SPW subwoofers

- 200W RMS, 400W program power handling capacity
- 2-inch voice coil
- 50 oz magnet for strong dynamic bass
- 8-ohm impedance
- 50 Hz - 2kHz frequency response

5. PRODUCT OVERVIEW



Figure 1: Front view of the STLFL08VS woofer, showing the paper cone and cloth edge surround.



Figure 2: Side view of the STL-08VS woofer, highlighting the magnet structure and speaker terminals.



Figure 3: Rear view of the STLTF-08VS woofer, displaying the magnet, model number, and impedance rating.

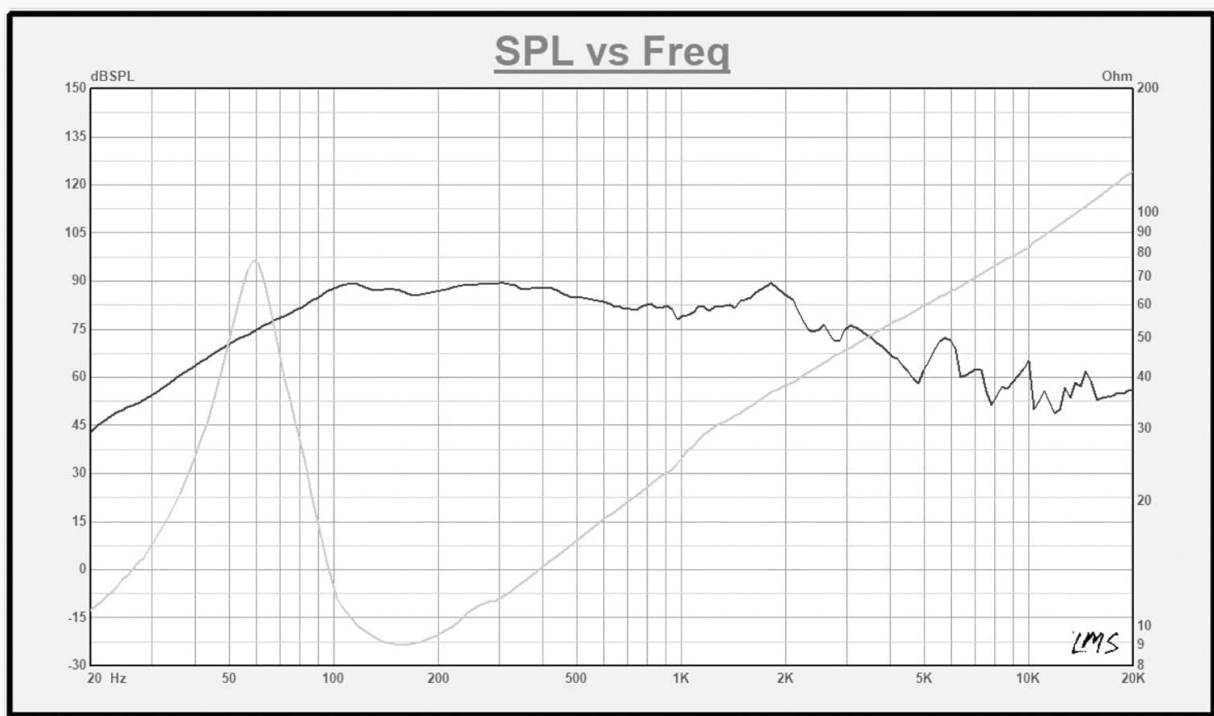


Figure 4: SPL vs Frequency response graph, illustrating the acoustic performance characteristics of the woofer.

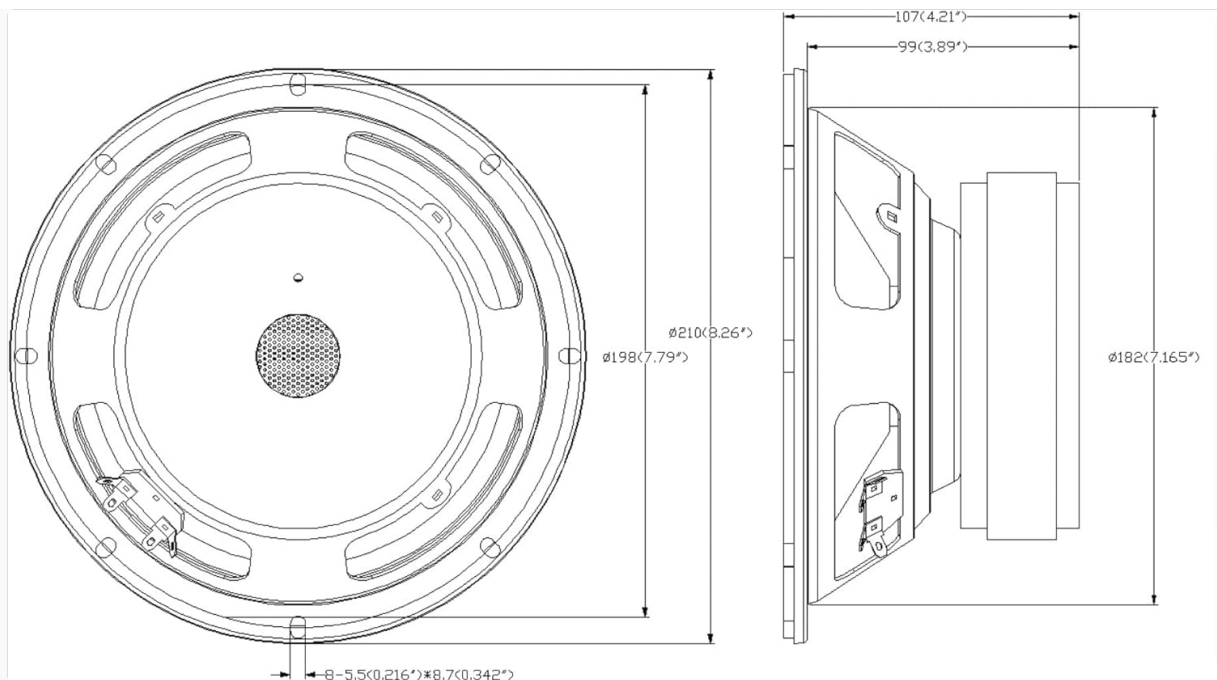


Figure 5: Detailed dimensional drawing of the STLF-08VS woofer, including mounting hole patterns and overall dimensions.

6. INSTALLATION AND SETUP

6.1 General Guidelines

The STLF-08VS is a raw speaker driver and requires installation into a suitable speaker enclosure. The enclosure design significantly impacts the woofer's performance. For optimal results, use an enclosure designed for an 8-inch woofer with similar parameters, or consult a speaker design guide.

- Ensure the mounting surface is flat and secure.
- Use appropriate screws and ensure they are tightened evenly to prevent air leaks and secure the woofer firmly.
- Verify that the enclosure has adequate internal volume and porting (if applicable) for an 8-inch woofer.

6.2 Wiring Connections

Connect the woofer to your amplifier or crossover network using high-quality speaker wire. Observe correct polarity:

- Connect the positive (+) terminal of the woofer to the positive (+) output of your amplifier/crossover.
- Connect the negative (-) terminal of the woofer to the negative (-) output of your amplifier/crossover.

Incorrect polarity can lead to phase cancellation, resulting in reduced bass response and distorted sound.

7. OPERATION

Once installed and wired correctly, the STLF-08VS woofer operates passively as part of your speaker system. Ensure your amplifier's output power does not exceed the woofer's maximum power handling capacity. Start with low volume levels and gradually increase to assess sound quality and prevent overdriving the woofer. Listen for any signs of distortion or stress, which indicate excessive power or an unsuitable signal.

8. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the cone and frame. Avoid using liquids or harsh chemicals.
- **Inspection:** Periodically inspect the woofer for any signs of damage to the cone, surround, or dust cap. Check wiring connections for tightness and corrosion.
- **Environment:** Avoid exposing the woofer to extreme temperatures, humidity, or direct sunlight, which can degrade materials over time.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from woofer	Loose or incorrect wiring; Amplifier off or faulty; Woofer damaged.	Check all connections and polarity; Verify amplifier operation; Inspect woofer for visible damage.
Distorted sound	Overdriving the woofer; Incorrect amplifier gain; Damaged voice coil.	Reduce volume/gain; Check amplifier settings; If distortion persists at low volumes, woofer may be damaged.
Weak bass response	Incorrect enclosure; Phase cancellation (reversed polarity); Crossover settings.	Ensure proper enclosure design; Check wiring polarity; Adjust crossover frequency settings.

10. TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	STLF-08VS
Woofer Diameter	8 Inches
RMS Power Handling	200 Watts
Program Power Handling	400 Watts
Voice Coil Diameter	2 Inches
Magnet Weight	50 oz
Impedance	8 Ohms
Frequency Response	50 Hz - 2 kHz
Sensitivity	92 dB
Enclosure Material	Pressed Steel Frame, Paper Cone with Cloth Edge
GTIN / UPC	810062039432

11. WARRANTY AND SUPPORT

Sound Town products are designed for reliability and performance. For specific warranty details and terms, please

refer to the warranty information provided with your purchase or visit the official Sound Town website. If you encounter any issues or require technical assistance, please contact Sound Town customer support through their official channels.

Sound Town Official Website: www.soundtown.com