

Seventour HR-DTSUB

Seventour HR-DTSUB 8-Inch Dual 4 Ohm Car Subwoofer Instruction Manual

Model: HR-DTSUB | Brand: Seventour

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Seventour HR-DTSUB 8-inch Dual 4 Ohm Car Subwoofer. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product. The HR-DTSUB is designed to deliver powerful bass performance with its 700 Watts peak power and 350 Watts RMS power handling capabilities.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- **Professional Installation Recommended:** If you are unsure about any aspect of installation, consult a qualified car audio technician.
- **Disconnect Battery:** Before beginning any wiring, disconnect the vehicle's negative battery terminal to prevent electrical shorts.
- **Proper Wiring:** Ensure all wiring is correctly connected and insulated to prevent shorts, damage to the subwoofer, or damage to your amplifier. Incorrect impedance wiring can damage your amplifier.
- **Secure Mounting:** Mount the subwoofer securely in an appropriate enclosure to prevent movement during vehicle operation, which could cause injury or damage.
- **Hearing Protection:** Prolonged exposure to high sound pressure levels can cause permanent hearing loss. Use caution when adjusting volume levels.
- **Ventilation:** Ensure adequate ventilation around the subwoofer and amplifier to prevent overheating.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Seventour HR-DTSUB 8-Inch Dual 4 Ohm Car Subwoofer

4. SPECIFICATIONS

Feature	Specification
Model Name	HR-DTSUB
Speaker Size	8 Inches
Speaker Type	Subwoofer
Voice Coil Configuration	Dual 4 Ohm
Peak Power	700 Watts
RMS Power	350 Watts
Magnet Type	Dual 40 oz High-Strength Magnets
Sensitivity	83.5 dB
FS (Resonant Frequency)	45 Hz
Frequency Response	35 Hz - 300 Hz
Recommended Installation Depth	7.87 inches
Product Dimensions (Approx.)	10"D x 10"W x 7"H
Item Weight	12.97 pounds (5.9 kg)
UPC	760762575863

5. SETUP AND INSTALLATION

Proper installation is critical for optimal performance and safety. This section outlines general steps for installing your subwoofer. Specific enclosure designs and vehicle considerations may vary.

5.1 Enclosure Selection and Mounting

The HR-DTSUB is designed for use in a sealed or ported enclosure. Consult car audio resources or a professional installer for recommended enclosure volumes and port tuning frequencies for an 8-inch subwoofer. Ensure the enclosure is robust and properly sealed.

Mount the subwoofer securely to the enclosure using appropriate screws. The mounting depth required is approximately 7.87 inches. Ensure there is sufficient clearance behind the magnet structure within the enclosure.



Figure 1: Front angled view of the Seventour HR-DTSUB 8-inch subwoofer.



Figure 2: Top view of the Seventour HR-DTSUB 8-inch subwoofer, showing the cone and surround.

5.2 Wiring the Subwoofer

The HR-DTSUB features a Dual 4 Ohm voice coil. This configuration offers flexibility in wiring to achieve different final impedances for your amplifier. Always match the subwoofer's final impedance to your amplifier's stable operating impedance.



Figure 3: Side view of the Seventour HR-DTSUB 8-inch subwoofer, highlighting the dual speaker terminals.

5.2.1 Series Wiring (8 Ohm Load)

To achieve an 8 Ohm load, connect the positive terminal of Voice Coil 1 to the negative terminal of Voice Coil 2. Then, connect the remaining negative terminal of Voice Coil 1 to the amplifier's negative output, and the remaining positive terminal of Voice Coil 2 to the amplifier's positive output.

5.2.2 Parallel Wiring (2 Ohm Load)

To achieve a 2 Ohm load, connect the positive terminal of Voice Coil 1 to the positive terminal of Voice Coil 2. Connect the negative terminal of Voice Coil 1 to the negative terminal of Voice Coil 2. Then, connect the combined positive terminals to the amplifier's positive output, and the combined negative terminals to the amplifier's negative output.

Important: Ensure your amplifier is stable at the chosen impedance. Refer to your amplifier's manual for its stable operating impedance.



Figure 4: Bottom view of the Seventour HR-DTSUB 8-inch subwoofer, showing the magnet structure and terminal connections.

5.3 Amplifier Connection

Connect the subwoofer's wired output to the appropriate subwoofer output terminals on your amplifier. Use high-quality speaker wire of adequate gauge for the power levels involved. Ensure all connections are tight and free from corrosion.

6. OPERATING INSTRUCTIONS

Once installed, follow these steps for initial setup and operation:

1. **Initial Power On:** After verifying all connections, reconnect your vehicle's battery. Turn on your car audio system.
2. **Amplifier Gain Setting:** Start with the amplifier's gain control at its minimum setting. Gradually increase the gain until the desired volume is achieved without distortion. Do not use the gain control as a volume

knob; it should be set to match the output voltage of your head unit.

- 3. **Crossover Settings:** Set your amplifier's low-pass filter (LPF) to a suitable frequency, typically between 80 Hz and 120 Hz, to ensure the subwoofer only reproduces low frequencies.
- 4. **Phase Control:** If your amplifier or head unit has a phase control (0° or 180°), experiment with both settings to find the one that provides the most impactful and cohesive bass response with your main speakers.
- 5. **Break-in Period:** Allow a break-in period of approximately 10-20 hours of moderate listening before operating the subwoofer at maximum levels. This allows the suspension components to loosen up and perform optimally.

7. MAINTENANCE

The Seventour HR-DTSUB subwoofer requires minimal maintenance to ensure long-lasting performance:

- **Cleaning:** Use a soft, dry cloth to wipe down the cone and surround. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Periodically inspect the speaker terminals and wiring for any signs of corrosion, loose connections, or damage.
- **Enclosure Integrity:** Ensure the subwoofer enclosure remains sealed and free from damage that could affect sound quality or expose the subwoofer to elements.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Sound from Subwoofer	<ul style="list-style-type: none">• Loose or incorrect wiring• Amplifier not powered on or in protect mode• Head unit settings incorrect• Blown fuse	<ul style="list-style-type: none">• Check all wiring connections (power, ground, remote, speaker).• Verify amplifier power and check for protect light.• Ensure subwoofer output is enabled on head unit.• Check fuses on amplifier and power distribution block.
Distorted Sound	<ul style="list-style-type: none">• Amplifier gain set too high• Crossover settings incorrect• Subwoofer over-driven• Damaged voice coil	<ul style="list-style-type: none">• Reduce amplifier gain.• Adjust LPF on amplifier or head unit.• Lower volume.• Inspect subwoofer cone for damage; if damaged, replacement may be necessary.
Weak Bass Output	<ul style="list-style-type: none">• Incorrect wiring impedance• Amplifier gain too low• Phase mismatch• Enclosure issues	<ul style="list-style-type: none">• Verify wiring matches amplifier's stable impedance.• Increase amplifier gain gradually.• Adjust phase setting (0°/180°).• Check enclosure for leaks or incorrect volume.

Problem	Possible Cause	Solution
Subwoofer Overheating	<ul style="list-style-type: none">• Amplifier clipping• Inadequate ventilation• Improper impedance match	<ul style="list-style-type: none">• Reduce amplifier gain to prevent clipping.• Ensure amplifier and subwoofer have proper airflow.• Verify correct impedance wiring.

If problems persist after attempting these solutions, contact Seventour customer support.

9. WARRANTY AND SUPPORT

Seventour is dedicated to providing high-quality automotive electronic products. We stand by the quality of our products with the following support:

- **30-Day Return:** No reason return policy within 30 days of purchase.
- **1-Year Quality Issues:** Direct replacement for quality-related issues within 1 year.
- **2-Years of Repairs:** Repair service available for up to 2 years from the date of purchase.

Contact Support:

**Seventour
Service Support**



30-Days
No Reason
Return



1-Year
Quality issues
Directly Replace



2-Years
of Repairs



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Figure 5: Seventour customer service contact details.

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