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Hifonics HEW12D4S

Hifonics Elite 12 Inch Shallow Mount Car Subwoofer Instruction Manual

Model: HEW12D4S

INTRODUCTION

Thank you for choosing the Hifonics Elite 12-inch shallow mount subwoofer. This product is engineered to deliver powerful and clear bass performance in automotive audio systems, especially where space is limited. This manual provides detailed instructions for proper installation, safe operation, and routine maintenance to ensure optimal performance and longevity of your subwoofer.

Please read this manual thoroughly before attempting installation or operation. Keep this manual for future reference.

SAFETY PRECAUTIONS

- Always disconnect the vehicle's battery negative terminal before beginning any electrical work.
- Ensure all wiring is properly insulated to prevent short circuits.
- Use appropriate gauge wiring for power and speaker connections as recommended by your amplifier manufacturer.
- Mount the subwoofer securely to prevent movement during vehicle operation, which could cause injury or damage.
- Avoid exposing the subwoofer to excessive moisture or extreme temperatures.
- Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Operate your audio system responsibly.

PACKAGE CONTENTS

Verify that all items are present in your package:

- Hifonics Elite 12 Inch Shallow Mount Subwoofer (Model: HEW12D4S)
- Cut-Out Template for Installation
- Owner's Manual (this document)

Note: If you purchased a 2-pack, your package will contain two subwoofers and two cut-out templates.

INSTALLATION GUIDE

Proper installation is crucial for optimal performance and safety. If you are unsure about any part of the installation process, consult a professional car audio installer.

1. Mounting Considerations

The Hifonics Elite shallow mount subwoofer is designed for installation in custom or pre-fabricated sealed enclosures. Its shallow depth of 3.17 inches allows for versatile placement in vehicles with limited space.

- **Enclosure Type:** This subwoofer is ideal for sealed enclosures. Consult the subwoofer's Thiele-Small parameters (if available) or a car audio specialist for optimal enclosure volume.
- **Mounting Location:** Choose a secure location in your vehicle (e.g., trunk, under a seat) that provides adequate space for the enclosure and protects the subwoofer from damage.
- **Ventilation:** Ensure the subwoofer has adequate air circulation, especially around the vented aluminum voice coil former, to dissipate heat effectively.

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Subwoofer Enclosure Recommendation
Vented coil former aids heat control.

Compatible Vehicles
Universal

3.17 inch mounting depth

85 dB sensitivity rating

(L) 13.5" x (W) 13.5" x (H) 4.75" | 8.25 lbs

Image: Hifonics Elite 12-inch shallow mount subwoofer, illustrating its compact design, 3.17-inch mounting depth, and overall dimensions

(13.5" L x 13.5" W x 4.75" H). This image also highlights the 85 dB sensitivity rating and universal compatibility.

2. Enclosure Fabrication and Mounting

1. **Cut-Out:** Use the provided cut-out template to mark and cut the mounting hole in your enclosure. Ensure the hole is precise to allow for a snug fit.
2. **Secure Mounting:** Place the subwoofer into the mounting hole. Align the mounting holes on the subwoofer frame with the pre-drilled holes in the enclosure. Use appropriate screws (not included) to secure the subwoofer firmly to the enclosure. Do not overtighten.

High-Quality Build & Durability

Heavy-Duty Powder-Coated Steel Frame

Strong woven fiber cone ensures crisp bass and reliability

UV foam surround resists fading and stays flexible

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Image: A Hifonics Elite 12-inch shallow mount subwoofer installed in a car audio enclosure, demonstrating its fit and highlighting its heavy-duty powder-coated steel frame, woven fiber cone, and UV foam surround for durability.

3. Wiring Connections

The HEW12D4S features dual 4-ohm voice coils. This allows for flexible wiring configurations to match your amplifier's impedance requirements. Always refer to your amplifier's manual for recommended impedance loads.

- **Parallel Wiring (2 Ohms):** 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 to the amplifier's positive output and the combined negative to the amplifier's negative output. This configuration presents a 2-ohm load to the amplifier.
- **Series Wiring (8 Ohms):** Connect the positive (+) terminal of Voice Coil 1 to the amplifier's positive output. Connect the negative (-) terminal of Voice Coil 1 to the positive (+) terminal of Voice Coil 2. Connect the negative (-) terminal of Voice Coil 2 to the amplifier's negative output. This configuration presents an 8-ohm load to the amplifier.

Note: Ensure all connections are secure and properly insulated using the nickel-plated push terminals.



Image: Rear view of the Hifonics Elite 12-inch shallow mount subwoofer, displaying the robust basket structure and nickel-plated push terminals for secure wiring connections.

OPERATION

Once installed and wired correctly, follow these guidelines for operating your subwoofer:

- **Initial Break-in:** Allow a break-in period of approximately 10-20 hours of normal listening at moderate volumes before operating the subwoofer at high power levels. This allows the suspension components to loosen and perform optimally.
- **Amplifier Settings:** Adjust your amplifier's gain, crossover, and bass boost settings according to its manual and your vehicle's acoustics. Start with low gain and gradually increase it until desired volume is achieved without distortion.
- **Crossover Frequency:** Set the low-pass filter (LPF) on your amplifier to a suitable frequency, typically between

60Hz and 100Hz, to ensure the subwoofer only reproduces low-frequency sounds.

- **Listen for Distortion:** If you hear any distortion, reduce the volume or amplifier gain immediately to prevent damage to the subwoofer.

MAINTENANCE

The Hifonics Elite subwoofer is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to wipe down the subwoofer 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 wiring connections. Ensure mounting screws remain tight.
- **Environmental Protection:** Keep the subwoofer protected from direct sunlight, extreme temperatures, and moisture, which can degrade materials over time.

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 incorrect | Check amplifier power, ground, and remote turn-on connections. Verify all speaker and RCA connections are secure and correct. Check amplifier for fault indicators; consult amplifier manual. Ensure subwoofer output is enabled and volume is up on head unit. |
| Distorted Sound | Amplifier gain set too high Crossover settings incorrect Damaged subwoofer Poor quality audio source | Reduce amplifier gain. Adjust low-pass filter (LPF) on amplifier. Inspect subwoofer cone and surround for physical damage. Try a different audio source. |
| Weak Bass Output | Incorrect wiring impedance Amplifier underpowered Enclosure issues | Verify voice coil wiring matches amplifier's optimal impedance. Ensure amplifier power output is sufficient for the subwoofer. Check enclosure for air leaks or incorrect volume. |

SPECIFICATIONS

| | |
|--------------|-------------------------|
| Model Number | HEW12D4S |
| Speaker Type | Shallow Mount Subwoofer |

| | |
|---------------------------------------|-----------------------------|
| Speaker Size | 12 Inches |
| Peak Power Handling | 600 Watts |
| RMS Power Handling | 300 Watts |
| Voice Coil Configuration | Dual 4 Ohm |
| Mounting Depth | 3.17 Inches |
| Product Dimensions (L x W x H) | 13.5" x 13.5" x 4.75" |
| Weight | 8.25 lbs |
| Sensitivity | 85 dB |
| Cone Material | Lightweight Woven Fiber |
| Surround Material | Butyl |
| Basket Type | Powder-Coated Stamped Steel |
| Manufacturer | Maxxsonics |

WARRANTY INFORMATION

Hifonics products are designed and manufactured to the highest quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Hifonics website. Keep your purchase receipt as proof of purchase for any warranty claims.

CUSTOMER SUPPORT

For technical assistance, troubleshooting, or general inquiries, please contact Hifonics customer support. You can find contact information on the official Hifonics website or through your authorized dealer.

Website: www.hifonics.com