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› DS18 PSW10.4D 10" Shallow Mount Subwoofer User Manual

DS18 PSW10.4D

DS18 PSW10.4D 10" Shallow Mount Subwoofer

Model: PSW10.4D

User Manual

1. INTRODUCTION

Thank you for choosing the DS18 PSW10.4D 10-inch Shallow Mount Subwoofer. This product is engineered to deliver powerful bass performance in compact spaces, making it ideal for various vehicle applications. Its robust construction and thoughtful design ensure durability and high-quality audio reproduction.

The PSW10.4D features a dual voice coil configuration, allowing for flexible wiring options to optimize your audio system's impedance. Its shallow mounting depth is specifically designed for installations where traditional subwoofers may not fit, such as under seats or in tight truck cabins.

Key Features:

- **Powerful Bass:** Handles 500 Watts RMS and 1000 Watts MAX Power with an 84 dB sensitivity, ensuring clear and heavy bass reproduction.
- **Dual Voice Coil:** 4 Ohms Dual Voice Coil configuration for versatile wiring and optimal power delivery.
- **Shallow Mount Design:** Engineered to fit in compact spaces, requiring less box volume than conventional subwoofers.
- **Durable Construction:** Features PPI Molding on the cone for water resistance and a steel basket for enhanced resistance against shock and vibration.
- **Versatile Application:** Suitable for car audio, bike audio, marine audio, off-road audio, and powersports audio systems.



Image 1.1: Front view of the DS18 PSW10.4D 10-inch Shallow Mount Subwoofer, highlighting its sleek design and durable rubber surround.

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your DS18 PSW10.4D subwoofer. It is highly recommended that installation be performed by a qualified professional.

2.1 Mounting Considerations

The shallow design of the PSW10.4D allows for installation in tight spaces. Ensure the mounting location provides adequate clearance for the subwoofer's overall diameter and mounting depth. Consider the required front mount baffle cut-out for a secure fit.



Image 2.1: Diagram illustrating the overall diameter (10.23" / 260mm), mounting depth (3" / 78mm), and front mount baffle cut-out (9.2" / 234mm) of the PSW10.4D subwoofer.

2.2 Wiring the Dual Voice Coil

The PSW10.4D features a Dual Voice Coil (DVC) with 4+4 Ohms impedance. This allows for various wiring configurations to match your amplifier's capabilities. Common configurations include:

- **Parallel Wiring:** Connect both voice coils in parallel for a 2 Ohm load. This configuration typically draws more power from the amplifier and can result in higher output.
- **Series Wiring:** Connect both voice coils in series for an 8 Ohm load. This configuration draws less power and is suitable for amplifiers that are not stable at lower impedances.

Always ensure your amplifier is stable at the chosen impedance. Incorrect wiring can lead to damage to both the subwoofer and the amplifier.



Image 2.2: Rear view of the DS18 PSW10.4D subwoofer, showing the dual voice coil terminals for wiring connections.

2.3 Enclosure Requirements

While the PSW10.4D is designed for shallow applications, it still requires a properly sized and constructed enclosure for optimal performance. Consult with an audio professional or refer to recommended enclosure specifications for sealed or ported designs to achieve the desired bass response.

3. OPERATING THE SUBWOOFER

Once installed, proper operation ensures the longevity and performance of your DS18 PSW10.4D subwoofer.

3.1 Power Handling

The PSW10.4D is rated for 500 Watts RMS (Root Mean Square) and 1000 Watts MAX power. RMS power is the continuous power the subwoofer can handle, while MAX power is the peak power it can withstand for short bursts. Always match your amplifier's RMS output to the subwoofer's RMS rating for best results and to prevent damage.

3.2 Amplifier Matching and Settings

Select an amplifier that can provide sufficient power to the subwoofer without clipping. Clipping occurs when an amplifier is overdriven, sending a distorted signal to the subwoofer, which can cause damage. Adjust amplifier settings such as gain, low-pass filter (LPF), and bass boost carefully:

- **Gain:** Set the gain to match the output voltage of your head unit. Do not use the gain control as a volume knob.
- **Low-Pass Filter (LPF):** Set the LPF to filter out high frequencies, allowing only bass frequencies to reach the subwoofer. A common range is 80-120 Hz.
- **Bass Boost:** Use bass boost sparingly, if at all. Excessive bass boost can lead to distortion and damage.

3.3 Break-in Period

Allow a break-in period for your new subwoofer, typically 20-30 hours of normal listening. During this time, avoid playing the subwoofer at extremely high volumes or with excessive bass. This allows the suspension components (surround and spider) to loosen up and perform optimally.

4. MAINTENANCE

Regular maintenance helps preserve the performance and appearance of your DS18 PSW10.4D subwoofer.

4.1 Cleaning

The PPI Molding on the cone is water resistant. For general cleaning, wipe the subwoofer's cone and surround with a soft, damp cloth. Avoid using harsh chemicals, solvents, or abrasive cleaners, as these can damage the materials. Ensure the subwoofer is dry before operating.

4.2 Inspection

Periodically inspect the subwoofer for any signs of damage, such as tears in the surround, dents in the cone, or loose connections at the terminals. The steel basket provides strong resistance against shock and vibration, but physical damage can still occur from impacts or improper handling. Address any issues promptly to prevent further damage.

4.3 Environmental Factors

While the subwoofer is water resistant, prolonged exposure to extreme moisture or direct water spray should be avoided unless specifically designed for such conditions (e.g., marine applications with proper enclosures). Protect the subwoofer from direct sunlight and extreme temperatures, which can degrade materials over time.

5. TROUBLESHOOTING

If you experience issues with your DS18 PSW10.4D subwoofer, refer to the following common troubleshooting steps. If the problem persists, consult a professional audio installer.

Problem	Possible Cause	Solution
No Sound from Subwoofer	- No power to amplifier - Loose or incorrect wiring - Amplifier in protect mode - Head unit settings	- Check amplifier power connections (power, ground, remote). - Verify all speaker and RCA connections are secure and correct. - Check amplifier's fuse. If blown, replace with correct rating. - Ensure subwoofer output is enabled on head unit.
Distorted Sound	- Amplifier gain set too high (clipping) - Incorrect LPF setting - Damaged subwoofer - Poor enclosure design	- Reduce amplifier gain. - Adjust LPF to filter out unwanted frequencies. - Inspect subwoofer for physical damage. - Ensure enclosure is sealed and properly sized.
Weak or Lack of Bass	- Incorrect wiring impedance - Amplifier underpowered - Phase issue - Incorrect LPF setting	- Verify voice coil wiring matches amplifier's stable impedance. - Ensure amplifier provides sufficient RMS power. - Check phase setting on amplifier or head unit. - Adjust LPF to allow more bass frequencies through.
Subwoofer Overheating	- Amplifier clipping - Subwoofer underpowered (amplifier working too hard) - Improper enclosure ventilation	- Reduce amplifier gain to prevent clipping. - Ensure amplifier is adequately powered for the subwoofer. - Verify enclosure has proper ventilation if applicable.

6. SPECIFICATIONS

Detailed technical specifications for the DS18 PSW10.4D 10" Shallow Mount Subwoofer:

Feature	Specification
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Feature	Specification
Model Name	PSW10.4D
Speaker Type	Subwoofer
Speaker Size	10 Inches
RMS Power	500 Watts
MAX Power	1000 Watts
Impedance	4+4 Ohms (Dual Voice Coil)
Sensitivity	84 dB
Frequency Response	20Hz - 800Hz
Mounting Depth	3 Inches (78mm)
Overall Diameter	10.23 Inches (260mm)
Front Mount Baffle Cut-out	9.2 Inches (234mm)
Magnet Material	Ferrite
Magnet Weight	58 Oz
Voice Coil Diameter	2.5 Inches (63.5mm)
Voice Coil Material	Aluminum
Water Resistance Level	Water Resistant
Item Weight	3.62 Pounds
Product Dimensions	53.6"D x 10.23"W x 9.2"H

7. WARRANTY INFORMATION

The DS18 PSW10.4D Shallow Mount Subwoofer comes with a**Limited Warranty**. This warranty covers defects in materials and workmanship under normal use. The specific terms and duration of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

The warranty typically does not cover damage resulting from:

- Improper installation or wiring.
- Accidental damage, abuse, or misuse.
- Exposure to extreme temperatures or moisture beyond the product's water resistance rating.
- Unauthorized repair or modification.

For detailed warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official DS18 website.

8. CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to initiate a warranty claim, please contact DS18 customer support. Our team is available to help you with any inquiries regarding your PSW10.4D subwoofer. For more information and to explore other DS18 products, please visit the official DS18 store:

Visit the DS18 Store

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