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DD Audio 710d-D4

DD Audio 710d-D4 10" Subwoofer Instruction Manual

Model: 710d-D4

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your DD Audio 710d-D4 10" Subwoofer. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your product.

The DD Audio 700 series subwoofers are engineered for high performance, featuring a robust DD cast basket, triple stack magnet motor, heavy-duty suspension, and a high-strength cone with a massive EROM surround. These design elements make the 710d-D4 ideal for use in vented or multi-order enclosure applications.

PRODUCT OVERVIEW



Figure 1: Front view of the DD Audio 710d-D4 10 inch subwoofer, showcasing the cone and EROM surround.



Figure 2: Angled view of the DD Audio 710d-D4 10 inch subwoofer, showing its overall depth and robust construction.



Figure 3: Side view of the DD Audio 710d-D4 10 inch subwoofer, highlighting the triple stack magnet motor and speaker terminals.



Figure 4: Profile view of the DD Audio 710d-D4 10 inch subwoofer, illustrating its mounting depth and overall dimensions.

SAFETY INFORMATION

- Always disconnect the vehicle's battery before performing any electrical work.
- Ensure proper wiring and impedance matching to prevent damage to the subwoofer or amplifier. Refer to the "Wiring Configurations" section for details.
- Install the subwoofer securely to prevent movement during vehicle operation.
- Avoid exposing the subwoofer to excessive moisture or extreme temperatures.

- Professional installation is recommended for optimal performance and safety.

SETUP AND INSTALLATION

Enclosure Requirements

The DD Audio 710d-D4 subwoofer is designed for optimal performance in properly constructed enclosures. For ported enclosures, a volume of 1.25 to 1.5 cubic feet is recommended. Ensure the enclosure is robust and sealed to prevent air leaks.

Mounting

The subwoofer features a flush mount design. The mounting diameter required is 9 5/16 inches, and the mounting depth is 7 1/8 inches. Ensure sufficient clearance behind the mounting surface for the motor assembly.

1. Carefully measure and cut the mounting hole in your enclosure according to the specified mounting diameter.
2. Position the subwoofer into the mounting hole, aligning the screw holes.
3. Secure the subwoofer using appropriate screws, ensuring even pressure around the mounting flange. Do not overtighten.

Wiring Configurations

The 710d-D4 is available in Dual 2-Ohm (D2) and Dual 4-Ohm (D4) voice coil configurations. Proper wiring is crucial for matching the subwoofer's impedance to your amplifier's stable operating range. Below are common wiring diagrams for dual voice coil subwoofers.

Note: Always verify your specific subwoofer's impedance (D2 or D4) before wiring.

Dual Voice Coil (DVC) Wiring Examples:

For a single DVC subwoofer:

- **Series Wiring:** Connect the positive (+) of one voice coil to the negative (-) of the other voice coil. The remaining positive and negative terminals become the output. This doubles the impedance (e.g., two 4-ohm coils in series result in 8 ohms).
- **Parallel Wiring:** Connect both positive (+) terminals together and both negative (-) terminals together. The combined positive and negative terminals become the output. This halves the impedance (e.g., two 4-ohm coils in parallel result in 2 ohms).

For multiple DVC subwoofers:

Combinations of series and parallel wiring can achieve desired final impedances. Consult your amplifier's specifications for stable impedance loads.

It is highly recommended to consult a professional car audio installer or refer to detailed wiring diagrams specific to your amplifier and subwoofer configuration to ensure correct impedance matching and prevent damage.

OPERATING GUIDELINES

Break-in Period

Allow a break-in period of approximately 20-30 hours of normal listening before operating the subwoofer at high volumes. This allows the suspension components (surround and spider) to loosen up and reach their optimal compliance, improving overall performance and longevity.

Amplifier Matching

The 710d-D4 has a recommended RMS power handling of 600 - 1200 Watts and a peak power handling of 3600 Watts. Select an amplifier that can provide sufficient clean power within this RMS range at the subwoofer's final impedance. Underpowering a subwoofer can be as damaging as overpowering it, as it can lead to amplifier clipping and distorted signals.

Gain Setting

Properly set the gain on your amplifier. The gain knob is not a volume control; it matches the amplifier's input sensitivity to the output voltage of your head unit. Setting the gain too high can lead to clipping and damage to the subwoofer. Use a digital multimeter or an oscilloscope for accurate gain setting, or consult a professional.

Crossover Settings

Utilize the low-pass filter (LPF) on your amplifier or head unit to send only low frequencies to the subwoofer. A typical starting point for the LPF is between 60Hz and 80Hz. Experiment with settings to achieve seamless integration with your main speakers.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to wipe down the subwoofer cone and surround. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Periodically inspect the subwoofer for any signs of damage, such as tears in the surround or cone, or loose connections.
- **Environmental Factors:** While designed for car audio, avoid prolonged exposure to extreme heat, cold, or direct sunlight, which can degrade materials over time.

TROUBLESHOOTING

| 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 (e.g., subwoofer output off)◦ Damaged subwoofer voice coil | <ul style="list-style-type: none">◦ Check all wiring connections (power, ground, remote, RCA, speaker).◦ Verify amplifier power and check fuses. Reset amplifier if in protect mode.◦ Ensure subwoofer output is enabled and volume is up on head unit.◦ Test subwoofer with a known good amplifier or test voice coil resistance with a multimeter. |
| Distorted Sound | <ul style="list-style-type: none">◦ Amplifier gain set too high (clipping)◦ Incorrect crossover settings◦ Enclosure issues (too small, leaks)◦ Damaged subwoofer | <ul style="list-style-type: none">◦ Reduce amplifier gain.◦ Adjust LPF settings.◦ Inspect enclosure for proper volume and seals.◦ Inspect subwoofer for physical damage. |

| Problem | Possible Cause | Solution |
|-----------------------|---|--|
| Subwoofer Overheating | <ul style="list-style-type: none"> ◦ Underpowering (amplifier clipping) ◦ Overpowering ◦ Incorrect impedance match ◦ Insufficient enclosure ventilation | <ul style="list-style-type: none"> ◦ Ensure amplifier provides clean power within RMS range. ◦ Verify amplifier power output does not exceed subwoofer's RMS rating. ◦ Recheck wiring for correct impedance. ◦ Ensure adequate airflow around the subwoofer and amplifier. |

SPECIFICATIONS

| Feature | Value |
|-------------------------------------|-----------------------------------|
| Model Name | 710d-D4 |
| Speaker Type | Subwoofer |
| Speaker Size | 10 Inches |
| RMS Power Handling | 600 - 1200 Watts |
| Peak Power Handling | 3600 Watts |
| Impedance Options | Dual 2-Ohm (D2) / Dual 4-Ohm (D4) |
| Voice Coil Diameter (VCD) | 3.0 Inches |
| Piston Diameter | 8 1/2 Inches |
| Fs (Resonance Frequency) | 28.53 Hz |
| Qms (Mechanical Q) | 3.786 |
| Qes (Electrical Q) | 0.350 |
| Qts (Total Q) | 0.321 |
| Vas (Equivalent Volume) | 21.42 Liters |
| Xmech (Mechanical Excursion) | 80 MM |
| Xmax (Linear Excursion) | 14 MM |
| Frame OD w/Gasket | 10 5/8 Inches |
| Mounting Diameter | 9 5/16 Inches |
| Mounting Depth | 7 1/8 Inches |
| Motor Diameter | 7 3/4 Inches |
| Motor Depth | 3 1/2 Inches |
| Woofer Displacement | 0.14 CuFt |
| Recommended Ported Enclosure Volume | 1.25 - 1.5 CuFt |

| Feature | Value |
|-------------------------|-----------|
| Item Weight | 38 Pounds |
| Connectivity Technology | Wired |
| Manufacturer | DD Audio |

Note: Specifications are subject to change without notice.

WARRANTY AND SUPPORT

Limited Warranty

The DD Audio 710d-D4 subwoofer comes with a limited warranty. Please refer to the official DD Audio website or contact their customer service for detailed warranty terms and conditions, including coverage period and claim procedures.

Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact DD Audio customer support. Contact information can typically be found on the manufacturer's official website:

DD Audio Official Website: ddaudio.com

When contacting support, please have your product model number (710d-D4) and purchase information readily available.