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› [DD Audio](#) /

› [DD Audio 715F-D2 15-inch Dual 2-Ohm 4500W Subwoofer Instruction Manual](#)

DD Audio 715F-D2

DD Audio 715F-D2 15-inch Dual 2-Ohm 4500W Subwoofer Instruction Manual

Model: 715F-D2

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your DD Audio 715F-D2 15-inch Dual 2-Ohm 4500W Subwoofer. Designed for high-performance car audio systems, this subwoofer incorporates precision engineering and thermal cooling enhancements for extended periods of continuous play. Its design prioritizes efficiency, converting raw power into clean sound while effectively managing heat.

Key features include a vented aluminum voice coil insert, finned aluminum heatsink, a taller surround double-stitched to a fiberglass-loaded non-pressed cone, and a voice coil with increased winding length and DD's proven double-layer spider for enhanced excursion.

PRODUCT OVERVIEW



Front view of the DD Audio 715F-D2 15-inch subwoofer, showcasing the cone and surround.



Side profile of the DD Audio 715F-D2 subwoofer, highlighting its mounting depth and overall structure.



Rear view of the DD Audio 715F-D2 subwoofer, showing the robust motor structure and wiring terminals.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your subwoofer. It is recommended that installation be performed by a qualified professional.

Enclosure Requirements

The DD Audio 715F-D2 is designed for use in a ported enclosure. The recommended volume for a ported enclosure is 3.0 - 6.0 cubic feet.

Mounting

- **Mounting Type:** Flush Mount
- **Mounting Diameter:** 13.875 inches
- **Mounting Depth:** 9.375 inches
- Ensure adequate clearance for the subwoofer's motor and cone excursion within the enclosure and vehicle.
- Use appropriate mounting hardware to secure the subwoofer firmly to prevent vibrations and damage.

Wiring Configuration

The 715F-D2 features a Dual 2-Ohm voice coil. Correct wiring is essential to match the subwoofer's impedance with your amplifier's capabilities. Incorrect wiring can lead to damage to both the subwoofer and the amplifier.

For detailed visual instructions on wiring dual voice coil subwoofers, please refer to the video below. This video demonstrates common wiring configurations for DVC 2-Ohm subwoofers, which is applicable to your 715F-D2 model.

Your browser does not support the video tag.

Video Description: This video provides a comprehensive guide on wiring configurations for two Dual Voice Coil (DVC) 2-Ohm subwoofers. It covers series, parallel, and series-parallel wiring methods, demonstrating how to achieve different impedance loads (e.g., 2 Ohm, 0.5 Ohm, 4 Ohm, 8 Ohm) for optimal amplifier matching. The presenter uses a multimeter to show the resulting impedance for each configuration, emphasizing the importance of matching the amplifier's stable impedance. This is crucial for preventing damage and maximizing sound quality.

Always verify the final impedance with a multimeter before connecting to your amplifier. Consult your amplifier's manual for its stable impedance ratings.

OPERATING INSTRUCTIONS

- Initial Break-in:** Allow a break-in period of approximately 20-30 hours of normal listening before operating the subwoofer at maximum power. This allows the suspension components to loosen up and perform optimally.
- Gain Settings:** Set your amplifier's gain correctly to match the output voltage of your head unit. Avoid setting the gain too high, as this can introduce distortion and damage the subwoofer.
- Crossover Settings:** Use a low-pass filter (LPF) to ensure the subwoofer only reproduces low frequencies. A typical LPF setting for a 15-inch subwoofer is between 60Hz and 80Hz.
- Subsonic Filter:** Utilize a subsonic filter (high-pass filter for the subwoofer) to protect the subwoofer from playing frequencies below its resonant frequency (Fs), which can cause excessive excursion and damage. The Fs for this model is 30.25 Hz.
- Volume Control:** Always increase volume gradually. If you hear any distortion, reduce the volume immediately.

MAINTENANCE

- Regular Inspection:** Periodically inspect the subwoofer cone, surround, and dust cap for any signs of damage, tears, or punctures.
- Cleaning:** Use a soft, dry cloth to gently clean the subwoofer. Avoid using harsh chemicals or abrasive materials that could damage the cone or surround.
- Connection Check:** Ensure all wiring connections remain secure and free from corrosion. Loose connections can lead to poor performance or damage.
- Temperature Management:** While the subwoofer features thermal cooling enhancements, avoid prolonged exposure to extreme temperatures, which can affect performance and lifespan.

TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|-------------------------|--|---|
| No Sound from Subwoofer | Loose or incorrect wiring. Amplifier in protect mode. Blown fuse in amplifier or power wire. Head unit settings incorrect. | Check all speaker and power connections. Verify amplifier status; check for overheating or impedance mismatch. Inspect and replace any blown fuses. Ensure subwoofer output is enabled and volume is up. |
| Distorted Sound | Amplifier gain set too high. Incorrect crossover settings. Subwoofer over-excitation. Damaged subwoofer cone or voice coil. | Reduce amplifier gain. Adjust LPF and subsonic filter settings. Lower volume or check enclosure tuning. Inspect subwoofer for physical damage; contact support if damaged. |

| Problem | Possible Cause | Solution |
|------------------|---|--|
| Weak Bass Output | Incorrect wiring impedance. Amplifier underpowered. Phase issues. Enclosure not optimized. | Verify wiring matches amplifier's stable impedance. Ensure amplifier provides sufficient RMS power. Check phase setting on amplifier/head unit. Confirm enclosure volume and port tuning are correct. |

SPECIFICATIONS

| Feature | Specification |
|--------------------------------|-----------------|
| Speaker Size | 15 Inches |
| Model Name | 715F-D2 |
| Watts RMS | 1500 Watts |
| Watts Peak | 4500 Watts |
| Impedance | Dual 2-Ohm (D2) |
| Voice Coil Diameter (VCD) | 3 Inches |
| Piston Diameter | 12.75 Inches |
| Resonant Frequency (Fs) | 30.25 Hz |
| Qms | 7.353 |
| Qes | 0.6854 |
| Qts | 0.6269 |
| Vas (Liters) | 62.47 Liters |
| Xmech | 100 MM |
| Xmax | 22 MM |
| Frame OD | 15.375 Inches |
| Frame OD w/Gasket | 15.563 Inches |
| Mounting Diameter | 13.875 Inches |
| Mounting Depth | 9.375 Inches |
| Motor Diameter | 7.562 Inches |
| Motor Depth | 4 Inches |
| Woofer Displacement | 0.22 CuFt |
| Ported Enclosure (Recommended) | 3.0 - 6.0 CuFt |
| Item Weight | 43 Pounds |
| Connectivity Technology | Wired (RCA) |

| Feature | Specification |
|--------------|---------------|
| Manufacturer | DD Audio |

WARRANTY

DD Audio products are designed for durability and performance. For specific warranty terms and conditions, please refer to the warranty information provided with your purchase or visit the official DD Audio website. Keep your proof of purchase for any warranty claims.

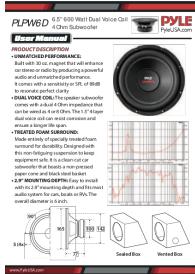
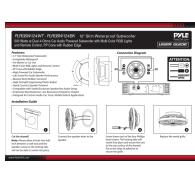
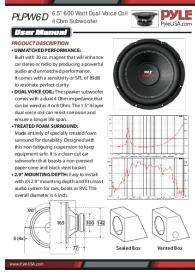
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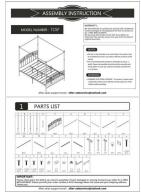
If you encounter any issues or have questions regarding your DD Audio 715F-D2 subwoofer that are not covered in this manual, please contact DD Audio customer support or your authorized dealer for assistance. You can typically find contact information on the product packaging or the official DD Audio website.

- Online Resources:** Check the official DD Audio website for FAQs, additional manuals, and support forums.
- Authorized Dealers:** Your local authorized DD Audio dealer can provide expert advice and service.

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Related Documents - 715F-D2

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|---|---|
|  | <p>Massive Audio KILOX Series Subwoofers: Specifications and Enclosure Guide</p> <p>Detailed specifications, features, and recommended enclosure volumes for the Massive Audio KILOX series subwoofers, including models KILOX 104, 122, 124, and 154. Find technical data for optimal car audio system design.</p> |
|  | <p>Pyle PLPW6D 6.5-Inch 600 Watt Dual Voice Coil 4 Ohm Subwoofer User Manual</p> <p>User manual for the Pyle PLPW6D, a 6.5-inch 600-watt dual voice coil 4-ohm subwoofer. Details product description, performance, dual voice coil features, treated foam surround, mounting depth, enclosure parameters, general specifications, and Thiele-Small parameters.</p> |
|  | <p>Pyle PLRGSW124WT/PLRGSW124BK 12-Inch Slim Waterproof Subwoofer User Guide</p> <p>Comprehensive user guide for the Pyle PLRGSW124WT and PLRGSW124BK 12-inch slim waterproof subwoofers. Features, installation instructions, remote control operation, and technical specifications for car audio systems.</p> |
|  | <p>Pyle PLPW6D 6.5-Inch 600W Dual Voice Coil 4 Ohm Car Subwoofer User Manual</p> <p>Detailed user manual for the Pyle PLPW6D 6.5-inch, 600-watt dual voice coil 4-ohm car subwoofer. Features include product description, unmatched performance, dual voice coil benefits, treated foam surround, mounting depth, enclosure parameters, general specifications, Thiele-Small parameters, and physical information.</p> |



[GOSALMON 715F Canopy Bed Assembly Instructions](#)

Comprehensive assembly instructions for the GOSALMON 715F Canopy Bed, detailing the parts list, step-by-step assembly guidance, and warranty information.



[DS18 ZR12.2D and ZR12.4D 12-Inch Subwoofer Owner's Manual](#)

Detailed owner's manual for DS18 ZR12.2D and ZR12.4D 12-inch subwoofers, including specifications, dimensions, and recommended enclosure designs. Features information on power handling, impedance, frequency response, and Thiele/Small parameters.