

Memphis A-PR10D4V2

Memphis Power Reference 10-inch DVC 4 Ohm Subwoofer Instruction Manual

Model: A-PR10D4V2

1. INTRODUCTION AND OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of your Memphis Power Reference 10-inch Dual Voice Coil (DVC) 4 Ohm Subwoofer, Model A-PR10D4V2. Designed for high-quality audio reproduction, this subwoofer features a robust construction for reliable performance in car audio systems.

Key features include:

- Dual 4 Ohm voice coils for flexible wiring configurations.
- Lightweight cone for enhanced efficiency.
- Two black anodized aluminum vented voice coil formers.
- High-temperature TIL voice coil former.
- Improved suspension and coil design.
- Durable rubber top gasket and high-strength wide roll surround.
- Maximum Peak Power Output: 500 Watts.
- RMS Power Handling: 250 Watts.

2. WHAT'S IN THE BOX

Upon unpacking, please ensure all components are present and undamaged. The package should contain:

- 1 x Memphis Power Reference 10-inch Subwoofer (Model A-PR10D4V2)

If any items are missing or damaged, please contact your authorized Memphis Audio dealer or customer support immediately.

3. SETUP AND INSTALLATION

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

3.1 Enclosure Requirements

This subwoofer requires a properly designed enclosure for optimal sound quality and power handling. Consult with your installer or refer to Memphis Audio's official enclosure recommendations for sealed or ported designs suitable for the A-PR10D4V2 model. Incorrect enclosure design can lead to poor performance or damage to the subwoofer.

3.2 Wiring Configurations (Dual 4 Ohm Voice Coils)

The A-PR10D4V2 features dual 4 Ohm voice coils, offering flexibility in wiring to match your amplifier's impedance requirements. Always ensure your amplifier is stable at the chosen impedance.

- **Parallel Wiring (2 Ohm Load):** Connect the positive terminals of both voice coils together, and the negative terminals of both voice coils together. Then connect these combined positive and negative terminals to your amplifier's output. This configuration presents a 2 Ohm load to the amplifier.
- **Series Wiring (8 Ohm Load):** Connect the positive terminal of one voice coil to the negative terminal of the other voice coil. Then connect the remaining free positive and negative terminals to your amplifier's output. This configuration presents an 8 Ohm load to the amplifier.

Refer to your amplifier's manual for compatible impedance loads. Incorrect wiring can damage both the subwoofer and the amplifier.

3.3 Amplifier Connection

1. Ensure the amplifier is turned off and disconnected from power before making any connections.
2. Connect the subwoofer's wired output (from your chosen parallel or series configuration) to the subwoofer output terminals on your amplifier.
3. Ensure all connections are secure and free from shorts. Use appropriate gauge speaker wire for the power levels involved.
4. Once all connections are made, you may reconnect power to your amplifier and proceed with initial setup.



Figure 1: Front view of the Memphis Power Reference 10-inch Subwoofer. This image shows the speaker cone, surround, and the Memphis logo on the dust cap.

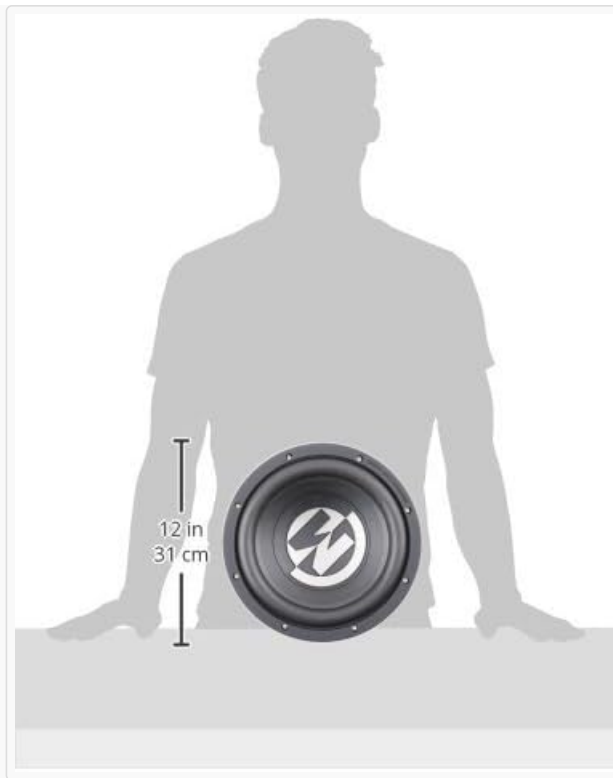


Figure 2: Dimensional view of the Memphis Power Reference 10-inch Subwoofer, indicating a 12-inch (31 cm) height for reference.

4. OPERATING INSTRUCTIONS

Once installed, follow these guidelines for proper operation of your subwoofer.

4.1 Initial Break-in Period

Allow a break-in period of approximately 10-20 hours of normal listening before operating the subwoofer at high volumes. This allows the suspension components to loosen and settle, optimizing performance and longevity.

4.2 Amplifier Gain and Crossover Settings

- **Gain Setting:** Adjust the amplifier's gain control carefully. The gain control is not a volume knob; it matches the output voltage of your head unit to the input sensitivity of your amplifier. Set it to the lowest possible setting that achieves desired volume without distortion.
- **Low-Pass Filter (LPF):** Set your amplifier's low-pass filter to an appropriate frequency, typically between 60Hz and 100Hz, to ensure the subwoofer only reproduces low-frequency sounds.
- **Subsonic Filter (HPF):** If your amplifier has a subsonic filter (high-pass filter for the subwoofer channel), set it slightly below your enclosure's tuning frequency (for ported enclosures) or around 20-25Hz (for sealed enclosures) to protect the subwoofer from damaging ultra-low frequencies.

Always listen for signs of distortion. If you hear distortion, reduce the volume or gain setting immediately to prevent damage to the subwoofer.

5. MAINTENANCE

Your Memphis subwoofer is designed for durability, but proper care will ensure its long-term performance.

- **Cleaning:** Use a soft, dry cloth to gently wipe the 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, dents in the

- cone, or loose connections. Address any issues promptly.
- **Environment:** Avoid exposing the subwoofer to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.

6. TROUBLESHOOTING

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

6.1 No Sound from Subwoofer

- **Check Power:** Ensure the amplifier powering the subwoofer is receiving power and is turned on. Check fuses.
- **Check Connections:** Verify all speaker wires and RCA cables are securely connected at both the amplifier and the subwoofer.
- **Amplifier Settings:** Confirm the amplifier's gain is not set to minimum, and the low-pass filter is enabled.
- **Head Unit Output:** Ensure the head unit's subwoofer output is enabled and volume is up.

6.2 Distorted or Unclear Sound

- **Gain Too High:** Reduce the amplifier's gain setting. Distortion is often caused by overdriving the amplifier or subwoofer.
- **Clipping:** If the amplifier's "clip" indicator is active, reduce the gain or head unit volume.
- **Crossover Settings:** Adjust the low-pass filter frequency. If it's set too high, the subwoofer may be trying to play frequencies it's not designed for.
- **Enclosure Issues:** Ensure the subwoofer is properly mounted in a suitable enclosure. Loose mounting or an improperly sized enclosure can cause distortion.

6.3 Subwoofer Overheating

- **Impedance Mismatch:** Verify the subwoofer is wired to an impedance that your amplifier can safely handle.
- **Overpowering:** Ensure the amplifier's power output does not significantly exceed the subwoofer's RMS power handling.
- **Distortion:** Playing distorted signals can cause excessive heat. Reduce gain and volume if distortion is present.
- **Ventilation:** Ensure the amplifier has adequate ventilation.

If these steps do not resolve the issue, contact Memphis Audio customer support or your authorized dealer.

7. SPECIFICATIONS

Feature	Specification
Brand	Memphis
Model Number	A-PR10D4V2
Speaker Type	Subwoofer
Subwoofer Diameter	10 Inches
Impedance	Dual 4 Ohms

Feature	Specification
Maximum Peak Power Output	500 Watts
RMS Power Handling	250 Watts
Voice Coil Former	2 Black Anodized Aluminum Vented, High-temp TIL
Cone Material	Lightweight
Surround Material	Tough Rubber, High-strength Wide Roll
Mounting Type	Flush Mount
Connectivity Protocol	RCA, Aux (for amplifier input)
Item Weight	2.4 Kilograms
UPC / GTIN	702588143529

8. WARRANTY AND SUPPORT

Memphis Audio products are engineered for quality and reliability. This subwoofer is covered by a manufacturer's warranty against defects in materials and workmanship under normal use. The specific terms and duration of the warranty may vary by region and retailer.

For detailed warranty information, claims, or technical support, please contact your authorized Memphis Audio dealer or visit the official Memphis Audio website. Keep your purchase receipt as proof of purchase for warranty service.

Memphis Audio Customer Support:

- Refer to the contact information provided with your product packaging or on the official Memphis Audio website.
- When contacting support, please have your product model number (A-PR10D4V2) and proof of purchase readily available.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question