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› BLAUPUNKT BPW-HX120D 12-inch DVC Car Subwoofer Instruction Manual

BLAUPUNKT BPW-HX120D

BLAUPUNKT BPW-HX120D 12-inch DVC Car Subwoofer

Instruction Manual

INTRODUCTION

Thank you for choosing the BLAUPUNKT BPW-HX120D 12-inch DVC Car Subwoofer. This manual provides essential information for the proper installation, operation, and maintenance of your subwoofer. Please read this manual thoroughly before installation and use to ensure optimal performance and safety.

SAFETY INFORMATION

- **Professional Installation Recommended:** For optimal performance and safety, it is recommended to have this subwoofer installed by a qualified car audio professional.
- **Power Disconnection:** Always disconnect the vehicle's battery negative terminal before starting any electrical work to prevent short circuits and damage.
- **Wiring:** Ensure all wiring is correctly connected according to the diagrams provided in this manual. Incorrect wiring can cause damage to the subwoofer, amplifier, or vehicle's electrical system.
- **Ventilation:** Ensure adequate ventilation around the subwoofer and amplifier to prevent overheating.
- **Secure Mounting:** Mount the subwoofer securely within its enclosure and the enclosure securely within the vehicle to prevent movement during driving, which could cause injury or damage.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume to a comfortable level.

PACKAGE CONTENTS

Please check the contents of the package. If any items are missing or damaged, contact your dealer immediately.

- 1x BLAUPUNKT BPW-HX120D X-Series 12-inch DVC Subwoofer
- Instruction Manual (this document)
- Mounting Template (if included with shipping carton)

PRODUCT OVERVIEW

The BLAUPUNKT BPW-HX120D is a 12-inch Dual Voice Coil (DVC) subwoofer designed to deliver powerful and clear low-frequency audio. It features a treated paper cone with a durable rubber surround for extended performance.

BLAUPUNKT

12" 1,000W DVC 4 OHMS SUBWOOFER BPW-HX120D



1000W

1000 Watts
Peak Power Handling

25Hz-
500kHz

Frequency
Response

87dB

Sensitivity

Image: Front view of the BLAUPUNKT BPW-HX120D 12-inch DVC Car Subwoofer, showing the cone, surround, and terminal connections. The image also highlights key specifications like 1000W Peak Power Handling, 25Hz-500Hz Frequency Response, and 87dB Sensitivity. Dimensions for external width (14 inches) and external depth (11 inches) are indicated.

Key Features:

- **Powerful Bass Output:** 1000W Max Output / 500W RMS for strong low-frequency reproduction.
- **Wide Frequency Response:** Operates between 25Hz - 500Hz for deep and impactful bass.
- **Versatile Enclosure Options:** Compatible with both vented and sealed enclosures.
- **Easy Installation:** Equipped with easy push terminals for simplified wiring.
- **High Sensitivity:** 4 Ohm impedance and 87dB Sensitivity ensure accurate sound reproduction.

SPECIFICATIONS



12" 1,000W DVC 4 OHMS **SUBWOOFER**
BPW-HX120D

SPECIFICATIONS

Speaker Design	12" DVC	Magnet Material	Ferrite
Woofer [in, mm]	12in 305mm	Trim Ring	Yes
Rated Impedance	4+4 ohm	Zn [Q]	2.320hm
Peak Power Handling [Watts]	1000W	fs [Hz]	35Hz
Continuous Power Handling [Watts]	500W	SPLo [dB@1W, 1M]	87dB
Frequency Response [Hz]	25~500Hz	Qts	0.67
Mounting Hole Diameter [in, mm]	11.18in 284mm	Qms	5.46
Top Mount Depth [in, mm]	0.79in 20mm	Qes	0.77
Bottom Mount Depth [in, mm]	5.71 in 145mm	Re [Q]	3.2+3.2
Hole Cut-Out Diameter	11.18in 284mm	Vas [Liters]	53.45
Woofer Material	Treated Paper	Xmax [mm]	15
Surround Material	Rubber		

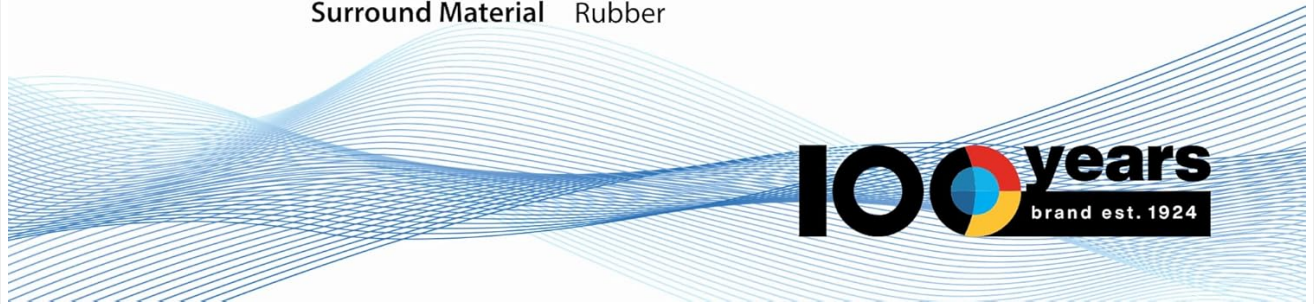


Image: A detailed list of technical specifications for the BLAUPUNKT BPW-HX120D subwoofer, including speaker design, impedance, power handling, frequency response, mounting dimensions, and material composition.

General and Electrical Specifications

Feature	Specification
Speaker Design	12" DVC (Dual Voice Coil)
Woofer Size	12 inches (305mm)
Rated Impedance	4+4 ohm
Peak Power Handling	1000W
Continuous Power Handling (RMS)	500W
Frequency Response	25~500Hz
Mounting Hole Diameter	11.18 inches (284mm)

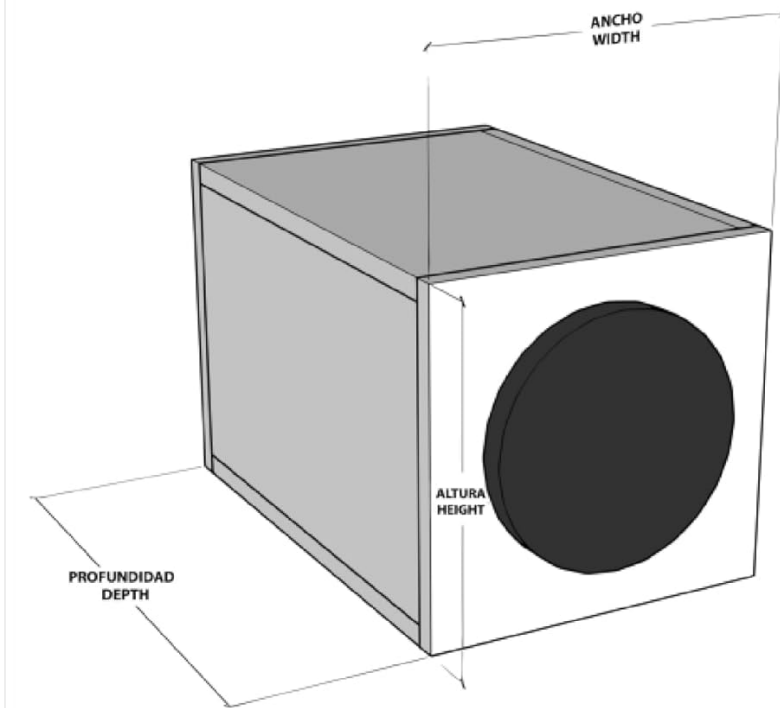
Feature	Specification
Top Mount Depth	0.79 inches (20mm)
Bottom Mount Depth	5.71 inches (145mm)
Woofer Material	Treated Paper
Surround Material	Rubber
Magnet Material	Ferrite
Trim Ring	Yes
Zn (Nominal Impedance)	2.32 ohm
fs (Resonance Frequency)	35Hz
SPLo (Sensitivity)	87dB @1W, 1M
Qts (Total Q Factor)	0.67
Qms (Mechanical Q Factor)	5.46
Qes (Electrical Q Factor)	0.77
Re (DC Resistance)	3.2+3.2 ohm
Vas (Equivalent Volume)	53.45 Liters
Xmax (Linear Excursion)	15 mm

INSTALLATION AND SETUP

Proper installation is crucial for the performance and longevity of your subwoofer. Follow these general guidelines.

Mounting the Subwoofer:

ENCLOSURE



Use the template included with your BLAUPUNKT Subwoofer shipping carton to mark the mounting hole, then cut directly on the line.

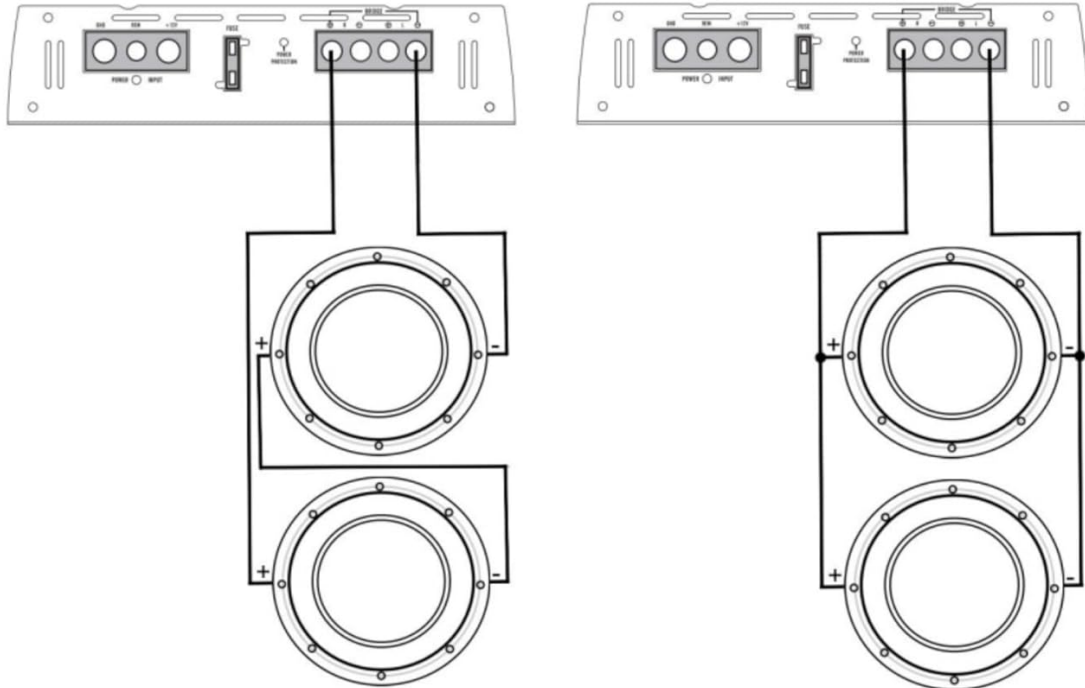
Image: Diagram illustrating how to mark and cut the mounting hole for the subwoofer in an enclosure. It shows the subwoofer being installed into a box, with labels for "ANCHO WIDTH", "ALTURA HEIGHT", and "PROFUNDIDAD DEPTH".

1. **Prepare the Enclosure:** Ensure your subwoofer enclosure is built to the recommended specifications (see "Enclosure Recommendations" section).
2. **Mark the Cut-Out:** Use the template included with your BLAUPUNKT Subwoofer shipping carton to mark the mounting hole on the enclosure. If a template is not available, use the "Mounting Hole Diameter" from the specifications (11.18 inches / 284mm).
3. **Cut the Hole:** Carefully cut directly on the marked line using an appropriate tool. Ensure the cut is clean and smooth.
4. **Secure the Subwoofer:** Place the subwoofer into the cut-out. Align the mounting holes and secure the subwoofer using appropriate screws, ensuring a tight, airtight seal.

WIRING

The BPW-HX120D features a Dual Voice Coil (DVC) design, offering flexibility in wiring configurations to achieve different impedance loads. Always match the subwoofer's impedance to your amplifier's stable operating impedance.

WIRING



**Blaupunkt Subwoofers
wired in series**

Total Impedance: 8 ohms

**Blaupunkt Subwoofers
wired in parallel**

Total Impedance: 2 ohms

Image: Two wiring diagrams for BLAUPUNKT DVC subwoofers. The left diagram shows two subwoofers wired in series, resulting in a total impedance of 8 ohms. The right diagram shows two subwoofers wired in parallel, resulting in a total impedance of 2 ohms.

Each diagram illustrates connections from an amplifier to the subwoofer voice coils.

Dual Voice Coil Wiring Options:

- **Series Wiring (for a single DVC subwoofer):** Connect the positive terminal of one voice coil to the negative terminal of the other voice coil. The remaining positive and negative terminals are then connected to the amplifier. For a 4+4 ohm DVC subwoofer, this results in an 8 ohm load.
- **Parallel Wiring (for a single DVC subwoofer):** Connect both positive terminals of the voice coils together, and both negative terminals together. Then connect these combined positive and negative terminals to the amplifier. For a 4+4 ohm DVC subwoofer, this results in a 2 ohm load.
- **Multiple Subwoofer Configurations:** When using multiple BPW-HX120D subwoofers, you can combine series and parallel wiring to achieve desired impedance loads (e.g., two 4+4 ohm DVC subwoofers wired in series for 8 ohms total, or in parallel for 2 ohms total, as shown in the diagram). Consult your amplifier's specifications for compatible impedance loads.

Always ensure secure connections using the easy push terminals. Verify all connections before applying power to prevent damage.

ENCLOSURE RECOMMENDATIONS

The BLAUPUNKT BPW-HX120D subwoofer is designed to perform optimally in both sealed and vented (ported) enclosures. The choice of enclosure type affects the subwoofer's sound characteristics.

Sealed Enclosures:

Sealed enclosures provide tight, accurate bass response, ideal for musicality and precise low-frequency reproduction.

Recommended Sealed Enclosure Dimensions (BPW-HX120D)

Parameter	Value
Wall Thickness	0.75 inches
Volume (Net Internal)	0.8 CuFt
External Width (W)	14 inches
External Height (H)	14 inches
External Depth (D)	11 inches

Vented (Ported) Enclosures:

Vented enclosures typically offer higher output and deeper bass extension, often preferred for louder systems.

Recommended Vented Enclosure Dimensions (BPW-HX120D)

Parameter	Value
Wall Thickness	0.75 inches
Volume (Net Internal)	1.65 CuFt
External Width (W)	23 inches
External Height (H)	12.5 inches
External Depth (D)	14 inches
Port Area	12.5 Sq inch
Port Length	16 inches

These dimensions are recommendations for optimal performance. Slight variations may be necessary based on specific vehicle acoustics and personal preference.

OPERATING THE SUBWOOFER

Once installed and wired correctly, the subwoofer will reproduce low-frequency audio signals from your amplifier.

- **Initial Power-Up:** After installation, turn on your car audio system at a low volume. Gradually increase the volume and check for proper operation and sound quality.
- **Break-in Period:** Allow a break-in period of several hours of moderate use before operating the subwoofer at high volumes. This allows the suspension components to loosen and achieve optimal performance.
- **Amplifier Settings:** Adjust your amplifier's gain, crossover, and bass boost settings according to your

preferences and the subwoofer's capabilities. Refer to your amplifier's manual for detailed instructions.

- **Crossover Frequency:** Typically, subwoofers perform best with a low-pass filter set between 60Hz and 100Hz, allowing them to reproduce only the low frequencies.

MAINTENANCE

The BLAUPUNKT BPW-HX120D subwoofer requires minimal maintenance.

- **Cleaning:** Periodically wipe the subwoofer cone and surround with a soft, dry cloth to remove dust. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Regularly inspect the subwoofer for any signs of damage to the cone, surround, or terminals. Ensure all mounting screws remain tight.
- **Environmental Protection:** Protect the subwoofer from extreme temperatures, direct sunlight, and moisture, which can degrade its performance and lifespan.

TROUBLESHOOTING

If you experience issues with your subwoofer, refer to the following common troubleshooting steps.

Problem	Possible Cause	Solution
No Sound from Subwoofer	<ul style="list-style-type: none">◦ No power to amplifier◦ Incorrect wiring connections◦ Amplifier in protect mode◦ Blown fuse◦ Damaged subwoofer voice coil	<ul style="list-style-type: none">◦ Check power, ground, and remote turn-on wires to amplifier.◦ Verify all wiring connections against the diagrams in this manual.◦ Check amplifier for overheating or short circuits.◦ Inspect and replace any blown fuses (amplifier, power wire).◦ Test subwoofer with a multimeter for continuity.
Distorted Sound	<ul style="list-style-type: none">◦ Amplifier gain set too high◦ Crossover settings incorrect◦ Damaged subwoofer◦ Poor enclosure design	<ul style="list-style-type: none">◦ Reduce amplifier gain.◦ Adjust low-pass filter on amplifier or head unit.◦ Inspect subwoofer for physical damage.◦ Ensure enclosure meets recommended specifications.
Weak Bass Output	<ul style="list-style-type: none">◦ Incorrect wiring (e.g., out of phase)◦ Amplifier gain too low◦ Crossover set too high◦ Insufficient power from amplifier	<ul style="list-style-type: none">◦ Reverse polarity on one voice coil or subwoofer to check for phase issues.◦ Increase amplifier gain gradually.◦ Lower the low-pass filter frequency.◦ Ensure amplifier is adequately powered and matched to subwoofer RMS.

If these steps do not resolve the issue, consult a qualified car audio technician or contact BLAUPUNKT customer support.

WARRANTY AND SUPPORT

The BLAUPUNKT BPW-HX120D subwoofer comes with a **Limited Warranty**. Specific terms and conditions of the

warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For Technical Support and Warranty Inquiries:

Please visit the official BLAUPUNKT website or contact your authorized BLAUPUNKT dealer for assistance. You may also refer to the contact information provided on your product packaging or warranty card.

- **Online Support:** www.blaupunkt.com/en/support/ (Example link, actual link may vary)
- **Dealer Locator:** Consult your local BLAUPUNKT retailer.

When contacting support, please have your product model number (BPW-HX120D) and proof of purchase readily available.