

## BLAUPUNKT EP1000X

# Blaupunkt EP1000X Digital Bass Enhancer

## Bass Note Restorer Instruction Manual

### 1. INTRODUCTION

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The Blaupunkt EP1000X Digital Bass Enhancer is designed to restore and enhance the low-frequency information in your car audio system. This unit processes the audio signal to reproduce deep, impactful bass notes that may be lost during the recording or compression process, providing a richer and more dynamic listening experience. This manual provides essential information for proper installation, operation, and maintenance of your EP1000X.

### 2. SAFETY INFORMATION

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Please read all instructions carefully before installation and use. Failure to follow these guidelines may result in damage to the unit, your vehicle, or personal injury.

- Always disconnect the vehicle's negative battery terminal before beginning any electrical work.
- Ensure all wiring is properly routed and secured to prevent pinching or damage.
- Use the recommended fuse rating (1 Amp) to protect the unit and your vehicle's electrical system.
- Do not expose the unit to moisture or extreme temperatures.
- Consult a professional car audio installer if you are unsure about any installation steps.

### 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- Blaupunkt EP1000X Digital Bass Enhancer
- Remote Bass Control Knob
- Wiring Harness (Power/Ground/Remote)
- Mounting Hardware
- User Manual

## 4. PRODUCT FEATURES

The EP1000X offers advanced features for superior bass reproduction:

- **Digital Bass Enhancement:** Restores and enhances low-frequency signals.
- **Adjustable Bass Controls:** 'Wide' and 'Sweep' controls for precise tuning of bass characteristics.
- **Balanced Inputs:** Minimizes noise interference for a clean signal.
- **High Headroom PWM Power Supply:** Ensures stable and efficient operation.
- **Compact Design:** Allows for flexible installation in various vehicle types.

## Additional Features

Maximum Input Level	: 15V RMS
Maximum Output Level	: 13.5V peak
Frequency Response	: 10 Hz - 100 KHz; +/- 1 dB
Total Harmonic Distortion	: 0.003 %
Signal Noise to Ratio	: 130 dB
Balanced Input Noise Rejection	: > 60 dB
Input Impedance	: 10K Ohms
Output Impedance	: 150 Ohms
Power Supply	: High Headroom PWM
Power Draw	: 150 mA
Recommended Fuse Rating	: 1 Amp

Image 4.1: A list of additional technical features and specifications for the Blaupunkt EP1000X, including maximum input/output levels, frequency response, total harmonic distortion, signal-to-noise ratio, input/output impedance, power supply type, power draw, and recommended fuse rating.

## 5. CONTROLS AND CONNECTIONS

Familiarize yourself with the layout of the EP1000X unit:

## DIGITAL BASS ENHANCER EP1000X



**2.5V** Input Sensitivity

**13.5V** Maximum Output Level  
PEAK

**10/80Hz** Subwoofer Frequency

Image 5.1: The front panel of the Blaupunkt EP1000X Digital Bass Enhancer, showing the 'Wide' and 'Sweep' control knobs, input/output RCA connections, and power terminals.

- **Wide Control:** Adjusts the Q factor (bandwidth) of the bass enhancement. Turn clockwise for a wider, more encompassing bass effect, or counter-clockwise for a narrower, more focused bass.
- **Sweep Control:** Selects the center frequency for the bass enhancement. This allows you to target specific bass frequencies for restoration. Options typically include 35Hz, 50Hz, and 80Hz.
- **Max. Bass Control:** This knob, often located on the remote, controls the overall output level of the enhanced bass.
- **Balanced Input (RCA):** Connect your head unit's low-level outputs here.
- **Output (RCA):** Connect these outputs to your amplifier's inputs.
- **Dash Remote:** Port for connecting the wired remote bass control knob.
- **+12V (Power):** Connect to a constant +12V power source.
- **Ground:** Connect to a solid chassis ground point.
- **Remote:** Connect to your head unit's remote turn-on lead.

## 6. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. Follow these general steps:

1. **Mounting:** Choose a secure, dry location for the EP1000X, away from heat sources and direct sunlight. Ensure adequate ventilation. Use the provided mounting hardware.
2. **Power Wiring:**
  - Connect the **+12V** terminal to a fused constant +12V power source from the vehicle's battery.
  - Connect the **Ground** terminal to a clean, bare metal chassis ground point.
  - Connect the **Remote** terminal to the remote turn-on output of your head unit or amplifier.
3. **Audio Connections:**
  - Connect the RCA outputs from your head unit (or signal processor) to the **Balanced Input** RCAs on the EP1000X.
  - Connect the **Output** RCAs from the EP1000X to the RCA inputs of your amplifier(s).
4. **Remote Bass Control:** Connect the remote bass control knob to the 'Dash Remote' port and mount it in an accessible location for easy adjustment.
5. **Final Check:** Double-check all connections for proper polarity and security before reconnecting the vehicle's battery.

## 7. OPERATING INSTRUCTIONS

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Once installed, you can fine-tune the bass enhancement to your preference:



## Tuner

*Enjoy it.*

The Built-in tuner allows easy and precise handling while the simple layout helps all levels of musicians to find their perfect tones faster.

Image 7.1: Close-up view of the 'Wide' and 'Sweep' tuning knobs on the Blaupunkt EP1000X, highlighting the frequency selection options for the bass enhancement.

- **Adjusting the Sweep Control:** Start by setting the 'Sweep' control to the lowest frequency (e.g., 35Hz). Play music with prominent bass. Gradually increase the 'Sweep' frequency until you hear the desired bass restoration and enhancement. This control helps target the specific frequency range where bass notes are most lacking or desired.
- **Adjusting the Wide Control:** Once the 'Sweep' frequency is set, adjust the 'Wide' control. Turning it clockwise will broaden the frequency range affected by the bass enhancement, making the bass sound fuller and more spread out. Turning it counter-clockwise will narrow the affected range, resulting in a more focused and punchy bass.
- **Using the Remote Bass Control:** Use the dash-mounted remote knob to adjust the overall intensity of the enhanced bass output. This allows for on-the-fly adjustments based on music genre or personal preference without needing to access the main unit.

Experiment with these controls to find the optimal settings for your vehicle's acoustics and your personal listening taste.

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The Blaupunkt EP1000X requires minimal maintenance to ensure long-lasting performance:

- Keep the unit clean and free from dust. Use a soft, dry cloth for cleaning.
- Do not use harsh chemicals or abrasive cleaners.
- Ensure all connections remain secure. Periodically check wiring for any signs of wear or corrosion.

## 9. TROUBLESHOOTING

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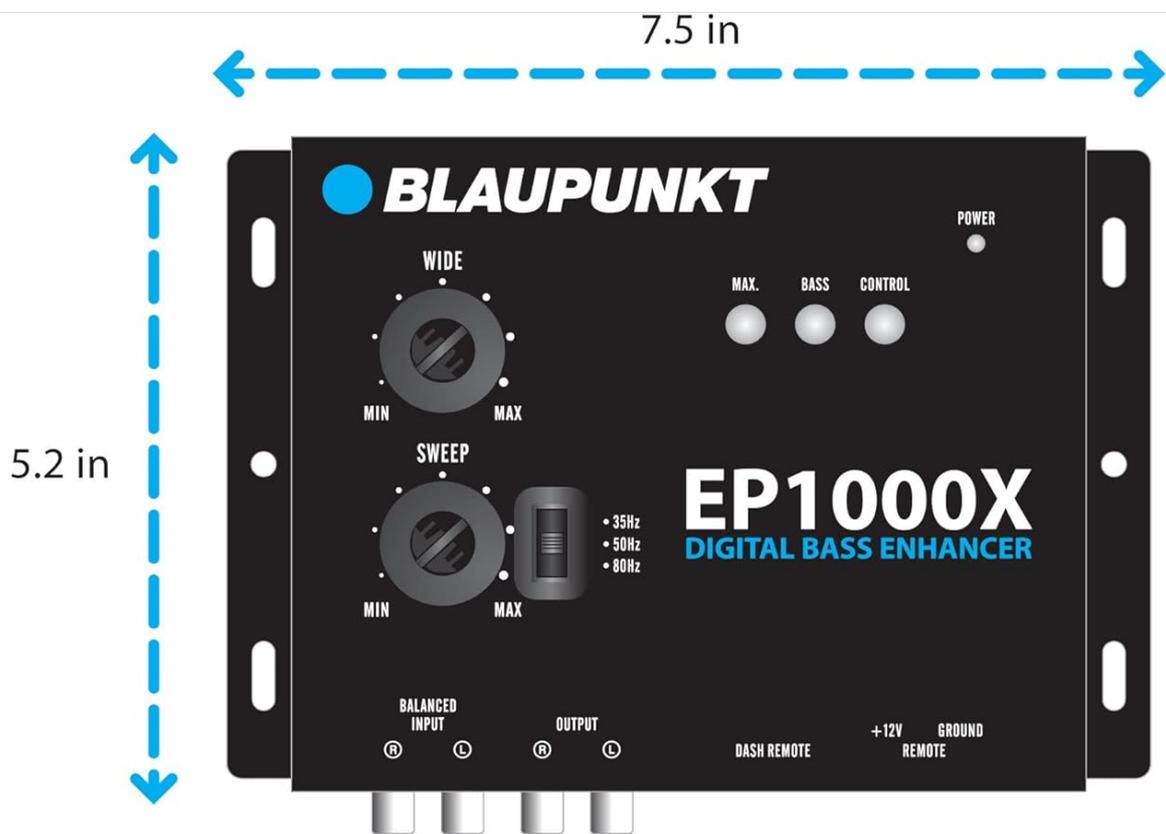
If you experience issues with your EP1000X, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power	Blown fuse; improper power/ground/remote connection.	Check the 1 Amp fuse. Verify +12V, Ground, and Remote wires are securely connected and receiving power.
No Sound / Weak Bass	Incorrect RCA connections; low input signal; gain settings on amplifier too low.	Ensure RCA inputs/outputs are correctly connected. Check head unit output levels. Adjust amplifier gain.
Distorted Bass	Input signal too high; 'Max. Bass Control' set too high; amplifier clipping.	Reduce head unit volume. Lower the 'Max. Bass Control' on the remote. Check amplifier gain settings to prevent clipping. Adjust 'Wide' and 'Sweep' controls.
Remote Bass Control Not Working	Loose connection to 'Dash Remote' port; faulty remote cable.	Ensure the remote cable is securely plugged into the unit and the remote knob. Inspect the cable for damage.

## 10. SPECIFICATIONS

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Technical specifications for the Blaupunkt EP1000X:



## Compact Size

*Enjoy it.*

Tiny in size but mighty in power, the enhancer is laden with unique features such as Wide and Sweep Dials, Hz controls, and Input/Output connections.

Image 10.1: The Blaupunkt EP1000X unit with its dimensions indicated as 7.5 inches in length and 5.2 inches in width, highlighting its compact form factor.

- **Maximum Input Level:** 15V RMS
- **Maximum Output Level:** 13.5V peak
- **Frequency Response:** 10Hz - 100KHz; +/- 1dB
- **Total Harmonic Distortion:** 0.003%
- **Signal to Noise Ratio:** 130dB
- **Balanced Input Noise Rejection:** >60dB
- **Input Impedance:** 10K Ohms
- **Output Impedance:** 150 Ohms
- **Power Supply:** High Headroom PWM
- **Power Draw:** 150mA
- **Recommended Fuse Rating:** 1 Amp
- **Product Dimensions:** 7.5 x 5.2 x 1.1 inches

- **Item Weight:** 1.92 pounds
- **Material:** Metal

## 11. WARRANTY INFORMATION

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Blaupunkt products are engineered for quality and reliability. This product is covered by a limited warranty against defects in materials and workmanship for a specified period from the date of purchase. Please retain your proof of purchase for warranty claims. For specific warranty terms and conditions, refer to the warranty card included with your product or visit the official Blaupunkt website.

## 12. CUSTOMER SUPPORT

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For technical assistance, troubleshooting, or general inquiries regarding your Blaupunkt EP1000X, please contact Blaupunkt customer support. You can typically find contact information on the official Blaupunkt website or through the retailer where the product was purchased.

**Online Support:** Visit the official Blaupunkt website for FAQs, product registration, and support resources.

**Email Support:** Refer to your product packaging or the official website for email contact details.

**Phone Support:** Refer to your product packaging or the official website for phone support numbers.