

## BLAUPUNKT BPS-ES650

# BLAUPUNKT BPS-ES650 6.5" 3-Way Slim Car Speaker Instruction Manual

Model: BPS-ES650

## INTRODUCTION

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Thank you for choosing the BLAUPUNKT BPS-ES650 6.5" 3-Way Slim Car Speakers. These speakers are engineered to deliver high-quality audio performance in a space-saving design, making them suitable for various vehicle installations. This manual provides essential information for the proper installation, operation, and maintenance of your new car speakers.

## SAFETY INFORMATION

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- Always disconnect the vehicle's battery negative terminal before beginning any electrical work to prevent short circuits.
- Ensure all wiring is properly insulated and secured to prevent damage from vibration or sharp edges.
- Do not install speakers in locations that obstruct the driver's view or interfere with vehicle safety features.
- Consult a professional car audio installer if you are unsure about any aspect of the installation process.
- Avoid exposing speakers to excessive moisture or extreme temperatures.

## PACKAGE CONTENTS

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Verify that all items are present in the package:

- 2 x BLAUPUNKT BPS-ES650 6.5" 3-Way Slim Car Speakers
- 2 x Protective Grilles
- Mounting Hardware (screws, clips, etc.)

## PRODUCT FEATURES

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- **Slim 3-Way Design:** Integrates a 6.5" woofer, 1.2" tweeter, and 0.5" super tweeter for a full-range sound experience, ideal for limited installation spaces.
- **Powerful Sound Output:** Delivers a peak power handling of 120W per pair and an RMS power of 60W per pair, ensuring clear audio.
- **High-Quality Components:** Features neodymium magnets in the tweeter and a ceramic/PET diaphragm in the super tweeter for crisp and detailed highs.
- **Broad Frequency Response:** Covers a wide audio spectrum from 60Hz to 20kHz, providing deep bass and high treble.
- **Durable Construction:** Built with PP cone material and a rubber surround for longevity and consistent performance.
- **4 Ohm Impedance:** Compatible with a wide range of car audio systems.
- **85dB Sensitivity:** Efficiently converts power into dynamic sound.

## SETUP AND INSTALLATION

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Proper installation is crucial for optimal performance. It is recommended to have these speakers installed by a qualified professional if you are not experienced with car audio systems.

### 1. Planning and Preparation

- Choose a suitable mounting location, typically vehicle doors, ensuring adequate depth and clearance.
- Verify the speaker dimensions against your vehicle's mounting space.



Image: BLAUPUNKT BPS-ES650 speaker with indicated dimensions (5"D x 7"W x 9"H) for installation planning.

## 2. Mounting the Speakers

- Carefully remove the existing speakers or prepare the mounting location.
- Position the BPS-ES650 speaker and mark the screw holes.
- Drill pilot holes if necessary, ensuring not to damage any vehicle components behind the mounting surface.
- Secure the speaker using the provided mounting hardware.



Image: Front view of the BLAUPUNKT BPS-ES650 speaker, showing the woofer, tweeter, and super tweeter components before grille installation.



Image: Side profile of the BLAUPUNKT BPS-ES650 speaker, highlighting its slim design for easier fitment in tight spaces.

### 3. Wiring Connections

- Connect the speaker wires from your car audio system to the terminals on the back of the speaker.
- Ensure correct polarity: positive (+) to positive and negative (-) to negative. Incorrect wiring can lead to poor sound quality or damage.
- The BPS-ES650 speakers have a 4 Ohm impedance. Ensure your amplifier or head unit is compatible with this impedance.



Image: Rear view of the BLAUPUNKT BPS-ES650 speaker, showing the magnet structure and the positive and negative wiring terminals.

#### 4. Attaching Grilles

- Once the speakers are mounted and wired, attach the protective grilles. These grilles protect the speaker cones from physical damage.



Image: Front view of the BLAUPUNKT BPS-ES650 speaker with the protective grille installed, providing both protection and a finished aesthetic.

## OPERATING INSTRUCTIONS

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After successful installation, operate your speakers through your car's head unit or amplifier.

- **Power On:** Turn on your car's audio system.
- **Volume Control:** Start with the volume at a low level and gradually increase it to a comfortable listening level. Avoid excessively high volumes to prevent distortion and potential speaker damage.
- **Audio Settings:** Adjust bass, treble, balance, and fader settings on your head unit to optimize sound quality for your vehicle's acoustics and personal preference.
- **Break-in Period:** Allow a short break-in period (approximately 10-20 hours of normal use) for the speaker components to loosen up and achieve their full sound potential.

## MAINTENANCE

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Regular maintenance ensures the longevity and performance of your speakers.

- **Cleaning:** Use a soft, dry cloth to gently wipe dust and dirt from the speaker grilles and surrounds.

Do not use harsh chemicals or abrasive cleaners.

- **Inspection:** Periodically check the speaker cones and surrounds for any signs of damage, tears, or deterioration. Ensure all mounting screws remain tight.
- **Environmental Protection:** While designed for automotive use, avoid prolonged exposure to extreme heat, cold, or direct sunlight when possible, as these can degrade speaker materials over time.

## TROUBLESHOOTING

If you encounter issues with your BPS-ES650 speakers, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from speakers	Incorrect wiring; loose connections; amplifier/head unit issue; speaker damage.	Check all wiring connections for proper polarity and tightness. Verify the amplifier/head unit is powered on and functioning. Test with another audio source if possible.
Distorted or unclear sound	Volume too high; incorrect audio settings; loose speaker cone; damaged speaker.	Reduce volume. Adjust bass/treble settings on your head unit. Inspect speaker cones for physical damage. Ensure speakers are securely mounted.
Weak or no bass	Incorrect wiring polarity; bass settings too low; phase issues.	Double-check speaker wire polarity (+/-). Increase bass settings on your head unit. If using multiple speakers, ensure they are in phase.
Intermittent sound	Loose wiring connection; faulty speaker wire; amplifier overheating.	Inspect all wiring for loose connections or frayed wires. Ensure adequate ventilation for your amplifier.

## SPECIFICATIONS

Feature	Specification
Brand	BLAUPUNKT
Model Number	850053034091
Speaker Size	6.5 Inches
Speaker Type	3-Way Coaxial
Peak Power Handling	120 Watts (per pair)
RMS Power Handling	60 Watts (per pair)
Impedance	4 Ohms
Sensitivity	85 dB
Frequency Response	60 Hz - 20 kHz
Woofer Material	PP Cone with Rubber Surround

Feature	Specification
Tweeter Type	1.2" Tweeter with Neodymium Magnet
Super Tweeter Type	0.5" Super Tweeter with Ceramic/PET Diaphragm
Mounting Type	Door
Connectivity Technology	RCA (for audio input to amplifier/head unit)
Item Dimensions (D x W x H)	5"D x 7"W x 9"H

## WARRANTY INFORMATION

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The BLAUPUNKT BPS-ES650 speakers come with a limited warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the warranty card included with your product or visit the official BLAUPUNKT website. Keep your proof of purchase for warranty claims.

## SUPPORT

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For further assistance, technical support, or inquiries regarding your BLAUPUNKT BPS-ES650 speakers, please visit the official BLAUPUNKT website or contact their customer service department. You can often find FAQs, additional resources, and contact information on their support pages.

**BLAUPUNKT Official Website:** [Visit the BLAUPUNKT Store on Amazon](#)