

## BLAUPUNKT GTHS80

# Blaupunkt 300W 8-Inch Amplified Subwoofer User Manual

Model: GTHS80 | Brand: BLAUPUNKT

## 1. INTRODUCTION

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Thank you for choosing the Blaupunkt 300W 8-Inch Amplified Subwoofer (Model GTHS80). This product is designed to provide powerful and clear bass tones for your car audio system. It features a compact design, making it suitable for various vehicle installations. This manual provides essential information for proper installation, operation, and maintenance of your subwoofer.

## 2. PRODUCT OVERVIEW AND FEATURES

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The Blaupunkt GTHS80 is an 8-inch amplified subwoofer engineered for maximum reliability and durability. Its slim profile allows for flexible placement within your vehicle, such as under a seat or in a compact trunk space.

### Key Features:

- **Power Output:** Maximum power handling of 300 watts (Peak) and RMS power handling of 100 watts.
- **Compact Design:** 8-inch slim woofer, ideal for space-constrained installations.
- **Adjustable Controls:** Features variable bass boost (0 to +18dB), adjustable input sensitivity (0.15V-0.5V for low-level, 6V for high-level), and a variable low-pass filter (40-250Hz).
- **Protection Circuits:** Includes thermal, short, and overload protection circuits to ensure longevity and safe operation.
- **Phase Selector:** A switch for 0 degrees or 180 degrees phase adjustment.
- **Input Options:** RCA Low-Level input (0.15-0.55V) and High-Level Input (6V).
- **Status Indicators:** Power and Protection LED indicators.



Figure 2.1: Front view of the Blaupunkt GTHS80 Amplified Subwoofer, showcasing its protective grille and branding.



Figure 2.2: Angled view of the subwoofer, highlighting its compact and robust enclosure.



Figure 2.3: Top-down view of the subwoofer, showing the speaker cone and protective bars.



Figure 2.4: Bottom view of the subwoofer, displaying the product

information label.



Figure 2.5: Size comparison of the Blaupunkt GTHS80, illustrating its compact dimensions (14.6 inches / 37 cm width) relative to a person.

### 3. WHAT'S IN THE BOX

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Upon opening the package, please ensure all items are present and in good condition:

- Blaupunkt 300W 8-Inch Amplified Subwoofer (GTHS80)
- User Manual (this document)
- Installation Accessories (e.g., wiring harness, mounting hardware)

### 4. SETUP AND INSTALLATION

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Proper installation is crucial for optimal performance and safety. If you are unsure about any steps, it is recommended to seek professional installation.

#### 4.1. Placement Considerations

Choose a location that is dry, well-ventilated, and away from direct heat sources. Common locations include under a seat, in the trunk, or behind a rear seat. Ensure the subwoofer is securely mounted to prevent movement during vehicle operation.

#### 4.2. Wiring Connections

The GTHS80 offers both low-level (RCA) and high-level inputs for compatibility with various car audio systems.

- **Power Connection:** Connect the main power wire to the vehicle's battery (positive terminal) via an inline fuse (30A recommended). Connect the ground wire to a clean, unpainted metal surface on the vehicle chassis.
- **Remote Turn-On:** Connect the remote turn-on wire to your head unit's remote output. This will turn the subwoofer on and off with your car stereo.
- **Audio Input:**
  - **Low-Level Input (RCA):** Use RCA cables to connect the subwoofer's RCA inputs to the RCA pre-outs of your head unit.
  - **High-Level Input:** If your head unit does not have RCA pre-outs, use the provided high-level input harness to connect directly to your speaker wires.



Figure 4.1: Control panel of the Blaupunkt GTHS80, showing power, input, and adjustment controls.

### 4.3. Initial Settings

Before powering on, ensure all connections are secure. Start with the following initial settings:

- **GAIN:** Set to minimum (fully counter-clockwise).
- **BASS BOOST:** Set to minimum (0dB).
- **CROSSOVER (Low-Pass Filter):** Start at approximately 80Hz.
- **PHASE:** Set to 0 degrees.

## 5. OPERATING INSTRUCTIONS

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Once installed, you can fine-tune the subwoofer's performance using the controls on the unit.

### 5.1. Adjusting Gain

The GAIN control matches the output of your head unit to the input sensitivity of the subwoofer. To set the gain:

1. Turn your head unit volume to about 75% of its maximum.
2. Slowly increase the GAIN control on the subwoofer until you hear distortion, then back it off slightly until the

sound is clear.

## 5.2. Setting the Low-Pass Filter (Crossover)

The LOW-PASS FILTER (LPF) controls the upper frequency limit the subwoofer will play. This helps blend the subwoofer with your main speakers.

- Adjust the LPF between 40Hz and 250Hz. A common starting point is 80Hz.
- If your main speakers are small, you might set the LPF higher (e.g., 100Hz-120Hz). If they are larger, you might set it lower (e.g., 60Hz-80Hz).

## 5.3. Using Bass Boost

The BASS BOOST control provides an additional boost to low frequencies. Use this sparingly to avoid distortion and potential damage to the subwoofer.

- Adjust from 0dB to +18dB.
- Increase gradually and listen for clarity.

## 5.4. Phase Selector

The PHASE selector (0° or 180°) helps ensure the subwoofer's output is in sync with your main speakers. Listen to music with strong bass and switch between 0° and 180°. Choose the setting that provides the most impactful and cohesive bass response.

# 6. MAINTENANCE

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Regular maintenance helps prolong the life of your subwoofer.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use harsh chemicals or abrasive cleaners.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.
- **Ventilation:** Ensure the subwoofer's ventilation areas are not obstructed to prevent overheating.

# 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Power / Power LED Off	Blown fuse, loose power/ground/remote wire, no power from battery.	Check inline fuse, verify all power connections are secure, test battery voltage.
No Sound Output	No audio input, gain too low, LPF set too low, speaker wires disconnected.	Check RCA or high-level input connections, increase gain, adjust LPF, ensure speaker wires are connected.
Distorted Sound	Gain set too high, bass boost too high, LPF set incorrectly, poor ground connection.	Reduce gain, reduce bass boost, adjust LPF, ensure ground connection is clean and secure.
Protection LED On	Overheating, short circuit in speaker wiring, low voltage.	Allow unit to cool, check speaker wiring for shorts, verify stable power supply.

## 8. SPECIFICATIONS

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Detailed technical specifications for the Blaupunkt GTHS80 Amplified Subwoofer:

Feature	Specification
Model Name	GTHS80
Speaker Type	Subwoofer
Subwoofer Diameter	8 Inches
Max Power	300W
RMS Power	100W
THD	<1 percent
Signal-to-Noise Ratio	>88dB
Frequency Response	20Hz-250Hz
Input Sensitivity, High Level	0.5V
Input Sensitivity, Low Level	150mV
Fuse Rating	30A
Product Dimensions (D x W x H)	9.2"D x 16.8"W x 3.8"H
Item Weight	10 Pounds
Power Source	Corded Electric
Connectivity Technology	Wired (RCA)
Color	BLACK

## 9. OFFICIAL PRODUCT VIDEO

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*Video 9.1: An official commercial video from Blaupunkt, showcasing various car audio products including the GTHS80 subwoofer. This video highlights the brand's history and product range.*

## 10. WARRANTY AND SUPPORT

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The Blaupunkt 300W 8-Inch Amplified Subwoofer comes with a limited warranty. For specific details regarding warranty coverage, duration, and how to make a claim, please refer to the warranty information included in the original packaging or contact Blaupunkt customer support directly. Keep your proof of purchase for warranty purposes.

For technical support or further assistance, please visit the official Blaupunkt website or contact their customer service department.

