

Autotek 7007

Autotek 7007 Multiple Source Signal Processor User Manual

Model: 7007

Brand: Autotek

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Autotek 7007 Multiple Source Signal Processor. Please read this manual thoroughly before use to ensure proper functionality and to maximize your audio system's performance.

PRODUCT OVERVIEW

The Autotek 7007 is a Half-DIN 4-Band 2-Way Equalizer/Crossover designed to enhance and fine-tune your vehicle's audio system. It offers quick control over master and subwoofer volume, along with equalization capabilities for real-time audio adjustments. This processor is ideal for integrating with various audio sources and features a built-in 9-volt line driver for robust signal output.

Key Components and Controls

Refer to the image below for a visual guide to the unit's inputs, outputs, and controls.



The image displays the top-down view of the Autotek 7007 unit. On the left, there are input connections labeled 'INPUT 1' and 'INPUT 2' with corresponding 'L' and 'R' channels. Adjacent to these are 'INPUT LEVEL' adjustment knobs. The right side features output connections for 'SUBWOOFER OUTPUT', 'REAR OUT', and 'FRONT OUT', each with 'L' and 'R' channels. Control switches for 'SUBWOOFER' (OFF, 50Hz, 80Hz, 120Hz) and 'FRONT/REAR' (OFF, 80Hz, 120Hz, 200Hz) are visible. Power connections 'B+', 'REM', and 'G' are located at the bottom left. The unit is labeled 'AUTOTEK 7007 4-BAND EQ 2-WAY CROSSOVER LINE DRIVER'.

FEATURES

- In-dash installation for convenient access and control.
- Master volume control for overall system level adjustment.
- Subwoofer control for dedicated bass management.
- Dual amplifier fader for balancing front and rear audio.
- Built-in 9-volt line driver for strong, clean signal output.
- Selectable blue or red illumination for aesthetic integration.
- 4-Band Equalizer for precise frequency tuning.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. It is recommended that installation be performed by a qualified professional.

Wiring Connections

- **Power Connection:** Connect the **B+** terminal to a constant 12V power source, **REM** to the remote turn-on lead from your head unit, and **G** (Ground) to a solid chassis ground point.
- **Input Connections:** The unit features two sets of RCA inputs (**INPUT 1**, **INPUT 2**) and high-level

inputs. Use the appropriate input based on your head unit's output. A switch allows selection between high-level input and RCA input.

- **Output Connections:** Connect the FRONT OUT, REAR OUT, and SUBWOOFER OUTPUT RCA jacks to your amplifiers. The subwoofer output provides a 10V line driver for enhanced bass signal.

Input Signal Adjustment

To prevent distortion, adjust the HIGH LEVEL and MAIN LEVEL controls. These allow you to increase or decrease the input level to match your source unit's output without clipping.

Subwoofer Output Control

The subwoofer output includes a level control and a frequency adjustment knob, allowing you to vary the frequency between 60Hz and 90Hz, specifically for the subwoofer channel.

Fader Control

Use the fader control to balance the audio output between the front and rear channels, optimizing sound staging within your vehicle.

OPERATING INSTRUCTIONS

Equalization

The Autotek 7007 features a 4-band equalizer. Each band can be adjusted to attenuate (-12dB) or boost (+12dB) specific frequencies. The fixed frequencies are 50Hz, 125Hz, 315Hz, and 750Hz. Adjust these knobs to tailor the sound to your preference and vehicle acoustics.

Master Volume

The master volume knob controls the overall output level of the signal processor.

Subwoofer Volume

The subwoofer volume knob provides independent control over the bass output level.

Illumination

The unit features selectable blue or red illumination. Consult the installation guide for details on how to switch between these options.

SPECIFICATIONS

Feature	Detail
Model Number	7007
Dimensions	7 x 5.5 x 1 inches
Item Weight	1.5 pounds
Voltage	9-16 Volts

Feature	Detail
Amperage	300 Milliamps
Equalizer Bands	4-Band (50Hz, 125Hz, 315Hz, 750Hz)
Subwoofer Crossover	2-Way (Adjustable 60Hz-90Hz)
Line Driver Output	9-Volt (Subwoofer output: 10V)
Inputs	2 RCA, High-Level
Outputs	Front, Rear, Subwoofer
Frequency Response	Up to 140 kHz

TROUBLESHOOTING

- **No Power:** Check all power connections (B+, REM, G) for secure contact and proper voltage. Ensure the remote turn-on lead is receiving a signal from the head unit.
- **No Sound:** Verify all RCA input and output connections. Ensure the correct input source (High-Level or RCA) is selected. Check amplifier connections and settings.
- **Distortion:** Reduce the input level using the **HIGH LEVEL** or **MAIN LEVEL** controls. Ensure your head unit's output is not clipping. Adjust equalizer bands to remove unwanted frequency boosts.
- **No Bass:** Check subwoofer output connections and amplifier. Verify the **SUB LEVEL** and **SUB FREQ** controls are adjusted correctly.

If issues persist, consult a professional car audio technician.

WARRANTY AND SUPPORT

This product comes with a manufacturer's warranty. Please refer to the warranty card included in the packaging for specific terms and conditions. For technical support or service inquiries, please contact Autotek customer service.

What's in the Box

- Half-din 4-band 2-way Equalizer/crossover