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› Soundstream BXA1-7500D 7,500 Watt Class D Monoblock Amplifier Instruction Manual

Soundstream BXA1-7500D

Soundstream BXA1-7500D Class D Monoblock Amplifier

Instruction Manual

INTRODUCTION

Thank you for choosing the Soundstream BXA1-7500D Class D Monoblock Amplifier. This manual provides essential information for the proper installation, operation, and maintenance of your amplifier. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and safety. The BXA1-7500D is designed to deliver powerful and clear bass output for your car audio system, featuring advanced digital bass reconstruction and efficient Class D amplification.

SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's negative battery terminal before any electrical work to prevent short circuits.
- Ensure all wiring is properly routed and secured to prevent damage from sharp edges or moving parts.
- Use appropriate gauge power and ground wires as specified in the installation section.
- Install the amplifier in a location that allows for adequate ventilation to prevent overheating.
- Avoid mounting the amplifier in areas exposed to moisture or excessive vibration.
- Professional installation is recommended for optimal performance and safety.

FEATURES

The Soundstream BXA1-7500D amplifier includes the following key features:

- Digital Bass Reconstruction Processor Built-in: Enhances low-frequency response.
- 1-ohm Minimum Impedance Monoblock Operation: Provides flexibility for various subwoofer configurations.
- Bridge 2 Monoblocks Together for Double Power: Allows for increased power output with a second amplifier.
- MOSFET Power Supply with Audiophile Grade IRTM Transistors: Ensures efficient and stable power delivery.
- 27Hz-63Hz Variable Center/Sweep Frequency: Customizable bass frequency adjustment.
- Variable Q/Width to Broaden or Narrow the Bandwidth: Fine-tune the bass response.
- 2.5V-10V Output Voltage for Optimum Bass Tuning: Adjustable output for precise control.

- LED MAX BASS Indicators: Visual alerts for extreme bass levels.
- Compact Dimensions: Approximately 8.125" W x 2.125" H x 15.75" L.

PACKAGE CONTENTS

Upon unpacking, please verify that all items listed below are present:

- Soundstream BXA1-7500D Monoblock Amplifier
- Remote Bass Control Knob with Cable
- Owner's Manual and Installation Guide
- Mounting Hardware (screws, washers)



Image: Contents of the Soundstream BXA1-7500D package, including the amplifier, remote bass control, instruction manual, and mounting screws.

SETUP AND INSTALLATION

Mounting the Amplifier

Choose a mounting location that is dry, well-ventilated, and secure. Ensure there is sufficient space around the amplifier for air circulation to prevent overheating. Avoid mounting on carpet or directly to metal surfaces without proper insulation.



Image: Angled top view of the Soundstream BXA1-7500D amplifier, illustrating its form factor for mounting considerations.

Wiring Connections

Proper wiring is crucial for performance and safety. Refer to the diagrams below for correct connections. Always use high-quality wiring components.

Power and Speaker Connections

Connect the +12V terminal to the positive terminal of the vehicle's battery using a fuse or circuit breaker within 18 inches of the battery. Connect the GND terminal to a clean, unpainted metal surface of the vehicle chassis. The REM (remote) terminal connects to the remote turn-on output of your head unit. Connect your subwoofer(s) to the SPEAKER OUTPUT terminals, observing correct polarity and impedance.

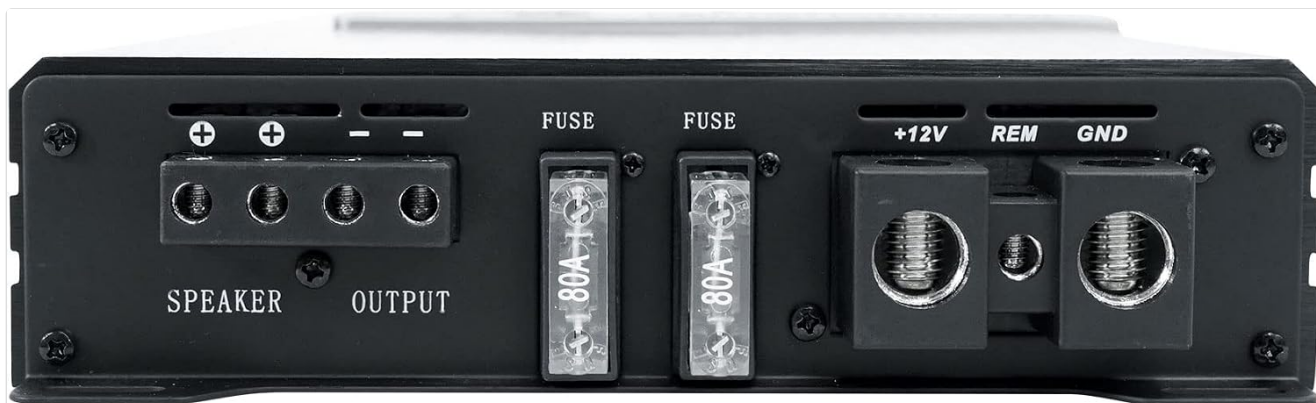


Image: Close-up view of the Soundstream BXA1-7500D amplifier's power input (+12V, REM, GND) and speaker output terminals, along with the integrated fuses.

Audio Input and Control Connections

Connect your head unit's RCA outputs to the LINE INPUT terminals (R and L). If using a second amplifier for bridging, use the LINE OUT terminals. The remote bass control connects to the 'REMOTE SUB CONTROL' port.



Image: Close-up view of the Soundstream BXA1-7500D amplifier's RCA line input and output, level, subsonic, LPF, phase controls, and remote sub control port.

OPERATING INSTRUCTIONS

Control Panel Overview

The amplifier features several adjustable controls to fine-tune your audio system:

- **LEVEL:** Adjusts the input sensitivity to match the output of your head unit. Start at minimum and slowly increase until desired volume is achieved without distortion.
- **SUBSONIC:** A high-pass filter for very low frequencies, protecting your subwoofers from damaging infrasonic signals.
- **LPF (Low Pass Filter):** Adjusts the upper frequency limit for the subwoofer output. Typically set between 40Hz and 150Hz.
- **PHASE:** Allows adjustment of the subwoofer output phase (0° or 180°) to match the main speakers.

Digital Bass Machine Controls

The Digital Bass Machine provides advanced bass enhancement:

- **MIN/MAX:** Adjusts the overall bass level.
- **27Hz/63Hz SWEEP:** Selects the center frequency for bass enhancement.
- **WIDE/NARROW Q/WIDTH:** Adjusts the bandwidth of the bass enhancement.
- **OUTPUT VOLTAGE (2.5V, 5V, 7.5V, 10V):** Sets the maximum output voltage for the bass signal.
- **ON/OFF:** Toggles the Digital Bass Machine feature.



Image: Detailed view of the Soundstream BXA1-7500D's Digital Bass Machine controls, including bass level, sweep frequency, Q/width, output voltage, and on/off switch.

Remote Bass Control

The included remote bass control allows for convenient adjustment of the bass level from the driver's seat.



Image: The Soundstream remote bass control knob, featuring 'Bass Level' and 'Level' adjustments for convenient in-cabin control.

MAINTENANCE

- The Soundstream BXA1-7500D amplifier requires minimal maintenance. Follow these guidelines to ensure longevity:
- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
 - **Ventilation:** Ensure that the amplifier's cooling fins are free from dust and debris to maintain proper airflow.
 - **Connections:** Occasionally check all power, ground, and speaker connections to ensure they are secure and free from corrosion.

TROUBLESHOOTING

If you experience issues with your amplifier, consult the following table before seeking professional service:

Problem	Possible Cause	Solution
No Power / No Sound	Blown fuse, loose power/ground connection, no remote turn-on signal.	Check fuses, verify all power and ground connections are secure, ensure remote wire is connected and receiving +12V.
Distorted Sound	Gain set too high, improper LPF/subsonic settings, poor input signal.	Reduce gain, adjust LPF/subsonic filters, check head unit output.
Amplifier Overheating	Insufficient ventilation, impedance too low, prolonged high output.	Ensure proper airflow, verify speaker impedance (1-ohm minimum), reduce listening volume.
Protection Light On	Short circuit in speaker wiring, overheating, low voltage.	Check speaker wiring for shorts, allow amplifier to cool, verify vehicle's electrical system voltage.

SPECIFICATIONS

Detailed technical specifications for the Soundstream BXA1-7500D Monoblock Amplifier:

Specification	Value
Model Number	BXA1-7500D
Output Power	7500 Watts (Max)
Number of Channels	1 (Monoblock)
Minimum Impedance	1-ohm
Digital Bass Reconstruction	Built-in
MOSFET Power Supply	Yes, with Audiophile Grade IRTM Transistors
Variable Center/Sweep Frequency	27Hz-63Hz
Variable Q/Width	Yes

Specification	Value
Output Voltage	2.5V-10V
Dimensions (L x W x H)	15.75" x 8.125" x 2.125" (approximate)
Item Weight	11.95 pounds
Maximum Supply Voltage	16 Volts (DC)
Minimum Supply Voltage	2.5 Volts (DC)
UPC	709483059245

WARRANTY AND SUPPORT

Soundstream products are designed and manufactured to the highest quality standards. This product is covered by a limited warranty against defects in materials and workmanship. For specific warranty terms, duration, and claim procedures, please refer to the warranty card included with your product or visit the official Soundstream website. For technical support, troubleshooting assistance, or service inquiries, please contact Soundstream customer service through their official channels. Keep your purchase receipt as proof of purchase for warranty claims.

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