

Audiobank P5000.1D, ST-1052

Audiobank P5000.1D Monoblock Amplifier and Soundxtreme ST-1052 Subwoofer Kit

USER MANUAL

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Audiobank P5000.1D Monoblock Car Audio Amplifier and Soundxtreme ST-1052 12-Inch Subwoofer Kit. This kit is designed to enhance your vehicle's audio system with powerful bass reproduction. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Safety Instructions

WARNING: Improper installation or use can result in serious injury or damage to your vehicle and audio equipment.

- Always disconnect the vehicle's negative battery terminal before beginning any electrical work.
- Ensure all wiring is properly routed and secured to prevent damage from sharp edges or moving parts.
- Use appropriate gauge wiring as specified in this manual and the included amp kit.
- Install the amplifier in a location that allows for adequate ventilation to prevent overheating.
- Consult a professional car audio installer if you are unsure about any part of the installation process.
- Do not operate the audio system at excessively high volumes for prolonged periods, as this can cause hearing damage.

3. Package Contents

Verify that all items listed below are present in your package:

- 1x Audiobank P5000.1D Monoblock Amplifier
- 2x Soundxtreme ST-1052 12-Inch Car Subwoofers
- 1x Complete 4 Gauge Amplifier Installation Kit (includes power cable, ground cable, RCA cable, remote turn-on wire, speaker wire, fuse holder, and terminals)



Image 3.1: Complete kit contents including amplifier, subwoofers, and wiring kit.

4. Setup and Installation

This section outlines the general steps for installing your amplifier and subwoofers. Specific vehicle requirements may vary.

4.1. Amplifier Mounting

Choose a mounting location that is secure, dry, and allows for sufficient airflow around the amplifier's heatsink. Avoid mounting on carpeted surfaces directly, as this can restrict airflow. Common locations include the trunk, under a seat, or behind a rear seat.



Image 4.1: Audiobank P5000.1D amplifier shown with the remote subwoofer level control.

4.2. Power Wiring (4 Gauge Amp Kit)

1. **Disconnect Battery:** Disconnect the negative (-) terminal of your vehicle's battery.
2. **Power Cable:** Run the 17-foot 4-gauge power cable from the battery location through the firewall to the amplifier's mounting location. Ensure the cable is protected from sharp edges and heat sources.
3. **Fuse Holder:** Install the inline AGU fuse holder (with an 80A or 100A fuse) as close to the battery's positive (+) terminal as possible (within 18 inches). Connect the power cable to the fuse holder and then to the battery's positive (+) terminal. **Do not insert the fuse until all wiring is complete.**
4. **Ground Cable:** Connect the 3-foot 4-gauge ground cable from the amplifier's GND terminal to a clean, unpainted metal surface on the vehicle's chassis. Ensure a solid, low-resistance connection.
5. **Remote Turn-On Wire:** Connect the 17-foot 18-gauge turn-on cable from your head unit's remote output (usually blue or blue/white) to the amplifier's REM terminal. This wire tells the amplifier to turn on when your head unit is active.



Image 4.2: Rear view of the Audiobank P5000.1D amplifier showing power (GND, REM, +12V) and speaker output terminals, along with fuse slots.

4.3. Signal Input (RCA)

Connect the 17-foot double-shielded RCA cable from your head unit's subwoofer or pre-amp output to the amplifier's RCA input jacks.



Image 4.3: Front view of the Audiobank P5000.1D amplifier showing RCA inputs, gain, LPF, bass boost, and remote control ports.

4.4. Subwoofer Wiring

The Soundxtreme ST-1052 subwoofers feature a dual voice coil configuration with 4 Ohm impedance per voice coil. For optimal performance with the monoblock amplifier, you will typically wire the two subwoofers to present a final impedance that the amplifier can handle efficiently (e.g., 1 Ohm or 2 Ohm). Consult your amplifier's specifications for stable impedance loads.

- **Single Subwoofer (Dual 4 Ohm Voice Coils):**

- **Parallel Wiring (2 Ohm):** Connect positive (+) of voice coil 1 to positive (+) of voice coil 2, then connect to amplifier positive. Connect negative (-) of voice coil 1 to negative (-) of voice coil 2, then connect to amplifier negative.
- **Series Wiring (8 Ohm):** Connect positive (+) of voice coil 1 to amplifier positive. Connect negative (-) of voice coil 1 to positive (+) of voice coil 2. Connect negative (-) of voice coil 2 to amplifier negative.

- **Two Subwoofers (Each with Dual 4 Ohm Voice Coils):**

- Various wiring configurations are possible (e.g., wiring each subwoofer to 2 Ohm, then wiring the two subwoofers in series for a 4 Ohm final load, or in parallel for a 1 Ohm final load). The Audiobank P5000.1D is rated for 1 Ohm stability (5000W x 1 at 1 Ohm). A common configuration for two dual 4 Ohm subwoofers to achieve a 1 Ohm load is to wire each subwoofer's voice coils in parallel (resulting in 2 Ohm per subwoofer), then wire the two 2 Ohm subwoofers in parallel to the amplifier.

Use the 20-foot 16-gauge speaker wire from the amp kit to connect the subwoofers to the amplifier's speaker output terminals. Ensure correct polarity.



Image 4.4: Side view of the Soundxtreme ST-1052 subwoofer, showing the robust frame and speaker terminals.



Image 4.5: Top view of the Soundxtreme ST-1052 subwoofer, highlighting the cone and voice coil area.



Image 4.6: Front view of the Soundxtreme ST-1052 subwoofer, showing the competition-grade pressed paper cone and high-roll foam surround.

4.5. Final Connections

Once all wiring is complete and checked for proper connections and polarity, insert the fuse into the fuse holder near the battery. Reconnect the vehicle's negative battery terminal.

5. Operating the Amplifier

After installation, adjust the amplifier settings for optimal sound performance.

- **Gain Control:** This control matches the amplifier's input sensitivity to the output level of your head unit. Start with the gain set to minimum. Play a familiar track at about 75% of your head unit's maximum volume. Slowly increase the amplifier's gain until you hear distortion, then back it off slightly. This is not a volume control.
- **Low Pass Crossover (LPF):** The P5000.1D features a continuously variable LPF from 40Hz to 180Hz. This filter allows only frequencies below the set point to pass through to the subwoofers. Adjust this to blend the

subwoofer output smoothly with your main speakers. A common starting point is 80Hz-100Hz.

- **Bass Boost:** This control provides a boost in bass frequencies (0 to +12dB). Use sparingly, as excessive bass boost can lead to distortion and potential damage to your subwoofers.
- **Remote Subwoofer Level Control:** This wired remote allows you to adjust the subwoofer output level from the driver's seat, providing convenient control over your bass.

6. Maintenance

- **Cleaning:** Periodically wipe the amplifier and subwoofers with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure the amplifier's heatsink remains clear of obstructions to maintain proper cooling.
- **Connections:** Occasionally check all wiring connections for tightness and corrosion. Loose connections can lead to poor performance or damage.

7. Troubleshooting

Problem	Possible Cause	Solution
Amplifier does not turn on (no power LED)	Blown fuse, loose power/ground/remote wire, no remote signal from head unit.	Check fuse in fuse holder and on amplifier. Verify all power, ground, and remote connections are secure. Test remote wire for 12V when head unit is on.
No sound from subwoofers	Loose RCA cables, incorrect gain setting, speaker wires disconnected, amplifier in protection mode.	Check RCA connections at head unit and amplifier. Ensure gain is not at minimum. Verify speaker wire connections. Check amplifier's protection indicator.
Distorted sound	Gain set too high, improper LPF setting, damaged speaker wire, damaged subwoofer.	Reduce gain setting. Adjust LPF. Inspect speaker wires for damage. If distortion persists, inspect subwoofers.
Amplifier overheats / goes into protection mode	Insufficient ventilation, impedance too low, prolonged high volume use.	Ensure adequate airflow around amplifier. Verify subwoofer wiring impedance matches amplifier's stable load. Reduce volume.

8. Specifications

8.1. Audiobank P5000.1D Monoblock Amplifier

Feature	Detail
Output Power (Max)	5000 Watts
Power MAX (1 Ohm)	5000W x 1
S/N Ratio	90dB
Low Pass Crossover (Variable)	40 ~ 180Hz
Bass Boost (Variable)	0 to +12dB

Feature	Detail
Frequency Response	17Hz ~ 180Hz
THD (at RMS Output)	0.01%
Channel Separation	90dB
Inputs	Line Level & Speaker Level
Remote Subwoofer Control	Yes
Heatsink	Heavy-Duty Aluminum Alloy
Protection Circuitry	Thermal and Speaker Short Protection

8.2. Soundxtreme ST-1052 12-Inch Subwoofer

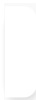
Feature	Detail
Voice Coil Configuration	Dual Voice Coil
Impedance	4 Ohm (per voice coil)
Peak Power	2200 Watts
Cone Material	Competition Grade Pressed Paper
Surround	High Roll Foam
Cooling System	Advanced Air Flow
Voice Coil Size	2.0" High Temperature Copper
Frequency Response	30 - 2.5kHz
Sensitivity	90 dB

8.3. 4 Gauge Amplifier Installation Kit

- **Power Cable:** High Quality Thick 17 Feet 4 Gauge GA
- **Ground Cable:** Premium 3 Feet 4 Gauge GA
- **Fuse Holder:** Inline AGU Fuse Holder with 80A + 100A Fuses
- **RCA Cable:** True Sound 17 Feet Double Shielded
- **Turn-On Cable:** High Quality 17 Feet 18 Gauge
- **Speaker Wire:** 20 Feet 16 Gauge
- **Accessories:** All necessary terminals included

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Audiobank website. Keep your proof of purchase for warranty claims.
Manufacturer: Audiobank



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