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Soundstream ST4.1200D

Soundstream ST4.10000D Compact 4-Channel Car Amplifier
User Manual

Model: ST4.1200D | Brand: Soundstream

1. INTRODUCTION AND OVERVIEW

The Soundstream ST4.10000D is a compact 4-channel car amplifier designed to deliver significant audio power in a small footprint. This amplifier is ideal for installations where space is limited, providing 90 watts RMS per channel at 4 ohms, or up to 250 watts per channel when bridged at 4 ohms. Its design incorporates a Mosfet power supply and offers flexible input options, including both preamp and speaker-level inputs, along with variable high- and low-pass filters for precise sound tuning.



Figure 1: Front view of the Soundstream ST4.10000D amplifier, showcasing its compact design and branding.

2. SAFETY INFORMATION

Please read all instructions carefully before installing and operating your amplifier. Failure to follow these guidelines may result in damage to the amplifier, your vehicle, or personal injury.

- Always disconnect the vehicle's negative battery terminal before making any power connections to prevent electrical shorts.
- Ensure proper ventilation around the amplifier. Do not mount it in an enclosed space where heat cannot dissipate.
- Use appropriate gauge wiring for power, ground, and speaker connections as specified in the installation section.
- Protect all wiring from sharp edges and moving parts. Use grommets where wires pass through metal.
- Avoid mounting the amplifier in locations exposed to moisture or excessive vibration.
- If you are unsure about any installation steps, consult a qualified car audio professional.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Soundstream ST4.10000D Amplifier
- User Manual (this document)

4. PRODUCT FEATURES

Key features of the Soundstream ST4.10000D amplifier include:

- **Power Output:** 90 watts RMS x 4 channels at 4 ohms (125 watts RMS x 4 at 2 ohms)
- **Bridged Power:** 250 watts x 2 channels bridged at 4 ohms
- **Power Supply:** Mosfet power supply for efficient operation
- **Input Options:** Preamp (RCA) and speaker-level inputs for versatile connectivity
- **Crossover Filters:** Variable high-pass and low-pass filters (35-250 Hz, 12 dB/octave) for precise audio shaping

5. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your amplifier. Follow these general steps:

5.1 Mounting Location

Choose a mounting location that provides adequate ventilation and is protected from moisture and direct sunlight. The compact size of the ST4.10000D allows for flexible placement, such as under seats, behind dashboards, or in trunk compartments. Ensure the mounting surface is solid and secure.

5.2 Wiring Connections

Refer to the diagram below for proper wiring of power, ground, remote, and speaker outputs.



Figure 2: Rear panel of the amplifier showing power input, fuse, and speaker output terminals. Note the Power (PW) and Protect (PT) indicator lights.

- **Power (B+):** Connect a direct wire from the positive terminal of your vehicle's battery. Use an appropriate gauge wire (e.g., 8-gauge or 4-gauge depending on total system power) and install an inline fuse (not supplied) within 18 inches of the battery.
- **Ground (GND):** Connect a short wire (less than 3 feet) from the amplifier's ground terminal to a clean, unpainted metal surface on the vehicle's chassis. Ensure a good electrical connection.
- **Remote (REM):** Connect this terminal to the remote turn-on output of your head unit. This wire signals the amplifier to turn on and off with your stereo.
- **Speaker Outputs:** Connect your speakers to the "SPEAKERS OUT" terminals. Ensure correct polarity (+ to + and - to -). For bridged operation, follow the indicated bridging connections on the amplifier panel.

5.3 Input and Control Settings

The amplifier features adjustable gain and crossover settings for optimal sound performance.



Figure 3: Front panel of the amplifier showing High/Low level inputs, Gain controls for Front and Rear channels, and X-OVER (crossover) settings.

- **HI/LO Input:** Connect your audio source here. Use RCA cables for preamp outputs from your head unit, or speaker-level inputs if your head unit does not have RCA outputs.
- **Gain Control:** Adjust the "GAIN" knobs for the Front and Rear channels to match the output voltage of your head unit. Start with the gain at minimum and slowly increase it until you hear distortion, then back off slightly.
- **X-OVER (Crossover):**
 - **HPF (High-Pass Filter):** Allows frequencies above the set point to pass through. Useful for full-range speakers to prevent low bass distortion.
 - **LPF (Low-Pass Filter):** Allows frequencies below the set point to pass through. Essential for subwoofers.

- **FULL:** Bypasses the crossover, allowing all frequencies to pass.

Adjust the frequency knobs (35Hz-250Hz) according to your speaker type and desired sound.

6. OPERATING INSTRUCTIONS

Once properly installed, operating your Soundstream ST4.10000D amplifier is straightforward:

- **Power On/Off:** The amplifier will automatically turn on when your head unit is powered on (via the remote wire connection) and turn off when the head unit is off.
- **Indicator Lights:**
 - **PW (Power):** A green LED indicates the amplifier is powered on and operating normally.
 - **PT (Protect):** A red LED indicates the amplifier has entered protection mode due to an issue (e.g., overheating, short circuit, low voltage). Refer to the Troubleshooting section.
- **Volume Control:** Adjust the overall system volume using your head unit's volume control. The amplifier's gain controls are for matching input levels, not for daily volume adjustment.

7. MAINTENANCE

To ensure long-term performance of your amplifier:

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Connections:** Occasionally check all wiring connections (power, ground, remote, speaker, RCA) to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Ventilation:** Ensure that the amplifier's cooling fins are not obstructed by debris or other objects. Proper airflow is essential for heat dissipation.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Power (PW light off)	Blown fuse Loose power or ground connection No remote turn-on signal	Check and replace amplifier fuse (30A) or inline battery fuse. Verify all power, ground, and remote connections are secure. Check remote wire connection at head unit and amplifier.
Protection Mode (PT light on)	Overheating Speaker short circuit Low voltage	Allow amplifier to cool down. Ensure proper ventilation. Check speaker wires for shorts to ground or to each other. Verify speaker impedance. Check vehicle's battery and charging system.
No Sound	No input signal Loose speaker connections Gain set too low	Check RCA or speaker-level input cables from head unit. Verify all speaker wires are securely connected at both amplifier and speakers. Adjust gain settings appropriately (refer to Section 5.3).
Distorted Sound	Gain set too high Improper crossover settings Poor ground connection	Reduce gain setting. Adjust HPF/LPF settings to suit your speakers. Ensure ground connection is clean and secure.

9. SPECIFICATIONS

Detailed technical specifications for the Soundstream ST4.10000D amplifier:

Specification	Value
Model Number	ST4.1200D
Item Dimensions (L x W x H)	7.5 x 3.88 x 1.5 inches
Item Weight	2.1 pounds
Number of Channels	4
Output Power (RMS @ 4 ohms)	90 watts x 4
Output Power (RMS @ 2 ohms)	125 watts x 4
Output Power (Bridged @ 4 ohms)	250 watts x 2
Voltage	16 Volts (Max Supply 14 Volts DC)
Crossover Filters	Variable High-Pass and Low-Pass (35-250 Hz, 12 dB/octave)
Mounting Type	Surface Mount

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Soundstream website or contact their customer service department. Keep your purchase receipt as proof of purchase for any warranty claims. For the most up-to-date support resources, visit: www.soundstream.com

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