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> Soundstream ST4.1200D Stealth Series 1200W Class D 4 Channel Amplifier User Manual

## Soundstream ST4.1200D

# Soundstream ST4.1200D Stealth Series 1200W Class D 4 Channel Amplifier User Manual

Model: ST4.1200D | Brand: Soundstream

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Soundstream ST4.1200D Stealth Series 1200W Class D 4 Channel Amplifier. Please read this manual thoroughly before attempting installation or operation to ensure proper use and to prevent damage.



## 2. SAFETY INFORMATION

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Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's negative battery terminal before any wiring.
- Ensure proper grounding to the vehicle chassis.
- Use appropriate gauge wiring for power and ground connections to prevent overheating.
- Avoid installing the amplifier in areas exposed to direct sunlight, excessive heat, moisture, or dust.
- Securely mount the amplifier to prevent movement during vehicle operation.
- Do not open the amplifier casing; there are no user-serviceable parts inside. Refer all servicing to qualified personnel.

## 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- Soundstream ST4.1200D Amplifier
- Remote Control (if applicable)
- Wiring Harnesses
- Mounting Hardware
- User Manual (this document)

## 4. PRODUCT FEATURES

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The Soundstream ST4.1200D amplifier boasts several key features designed for optimal performance:

- **Stealth Series Design:** Compact form factor for easy installation in various vehicle types.
- **Class D Topology:** High efficiency and powerful output with minimal heat generation.
- **RMS Power Output:**
  - 100W x 4 channels at 4 Ohms
  - 150W x 4 channels at 2 Ohms
  - 300W x 2 channels bridged at 4 Ohms
- **Full-Range Operation:** Supports 2-Ohm stereo and 4-Ohm bridged full-range operation.
- **Hybrid Aluminum Alloy Heatsink:** Engineered for efficient heat dissipation, ensuring stable performance.
- **Military Grade SMT PCB:** Surface Mount Technology Printed Circuit Board for dynamic and reliable performance.



## Stealth Series 1200W class D 4 channel amplifier RMS power 4Ω.

Image: The Soundstream Stealth amplifier shown with an input jack, highlighting its compact size and connectivity.

## 5. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your amplifier. It is recommended that installation be performed by a qualified professional.

### 5.1 Mounting Location

Choose a mounting location that is:

- Well-ventilated to allow for heat dissipation.
- Protected from moisture and direct sunlight.
- Secure, preventing the amplifier from moving during vehicle operation.
- Accessible for wiring and adjustments.

### 5.2 Wiring Connections

The ST4.1200D uses wiring harnesses for all inputs, outputs, and power connections. Refer to the included wiring schematic for detailed connections. Ensure all connections are secure and properly insulated.

- **Power (B+):** Connect to the positive terminal of the vehicle's battery via an inline fuse (not included, recommended size based on total amplifier current draw).
- **Ground (GND):** Connect to a clean, unpainted metal surface of the vehicle chassis. Ensure a solid connection.
- **Remote (REM):** Connect to the remote turn-on output of your head unit.
- **Audio Input:** Connect RCA cables from your head unit's pre-amp outputs to the amplifier's input harness. If using speaker-level inputs, connect speaker wires directly to the input harness.
- **Speaker Output:** Connect your speakers to the amplifier's speaker output harness. Observe correct polarity (+/-).

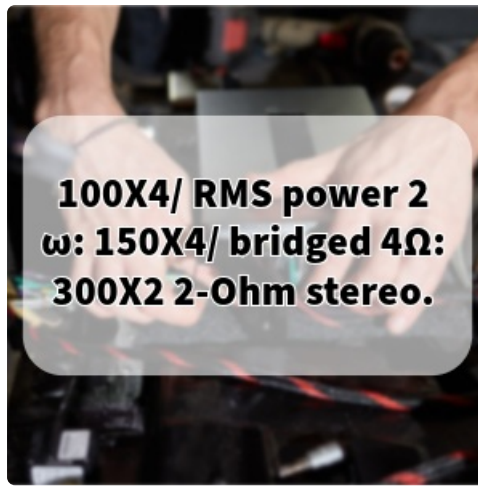


Image: A close-up view of wiring connections, illustrating the complexity of amplifier installation.

## 6. OPERATING AND ADJUSTMENTS

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Once installed, the amplifier requires proper adjustment for optimal sound quality.

### 6.1 Gain Control

The gain control (often labeled "LEVEL") matches the amplifier's input sensitivity to the output voltage of your head unit. It is not a volume control. To set the gain:

1. Turn the amplifier's gain control to its minimum (fully counter-clockwise).
2. Set your head unit's volume to about 75-80% of its maximum.
3. Play a dynamic piece of music.
4. Slowly increase the amplifier's gain control until you hear distortion, then back it off slightly until the sound is clear.

### 6.2 Crossover Settings

The ST4.1200D features crossover switches (LP/HP) to filter frequencies. If your head unit has built-in crossovers, you may set the amplifier to full range. Otherwise, adjust as follows:

- **HP (High Pass):** Use for full-range speakers or tweeters to block low frequencies that can cause distortion.
- **LP (Low Pass):** Use for subwoofers to block high frequencies, allowing only bass to pass through.
- **FULL:** Allows all frequencies to pass through.



Image: A close-up of amplifier controls, indicating the various adjustment knobs and switches.

## 7. MAINTENANCE

The Soundstream ST4.1200D amplifier requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Use a soft, dry cloth to wipe the amplifier's exterior. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the heatsink fins are free from dust and debris to maintain proper cooling.
- **Connections:** Periodically check all wiring connections for tightness and corrosion. Loose connections can lead to poor performance or damage.

## 8. TROUBLESHOOTING

If you experience issues with your amplifier, consult the following troubleshooting guide before seeking professional assistance:

Problem	Possible Cause	Solution
No Power / Amplifier Not Turning On	Blown fuse; loose power/ground/remote wire; faulty remote turn-on signal.	Check and replace fuse; verify all power, ground, and remote connections are secure and receiving proper voltage.
No Sound Output	Loose RCA/speaker connections; incorrect gain setting; head unit issue; amplifier in protection mode.	Check all audio input/output connections; adjust gain; verify head unit is functioning; check amplifier's protection indicator.
Distorted Sound	Gain set too high; incorrect crossover settings; poor speaker connection; damaged speaker.	Reduce gain; adjust crossover settings; inspect speaker wiring and speakers for damage.
Amplifier Overheating / Protection Mode	Insufficient ventilation; low impedance load; prolonged high volume use; faulty wiring.	Ensure proper airflow around amplifier; verify speaker impedance matches amplifier's rating; reduce volume; check wiring for shorts.



Image: A technician working on car audio wiring, representing the complexity of troubleshooting and installation.

## 9. SPECIFICATIONS

Detailed technical specifications for the Soundstream ST4.1200D amplifier:

Specification	Value
Brand	Soundstream
Model Number	ST4.1200D
Item Dimensions (L x W x H)	7.75 x 3 x 1.5 inches
Item Weight	1.9 pounds
Voltage	12 Volts (DC)
Number of Channels	4
Output Power	100 Watts (RMS per channel at 4 Ohms)
RMS Power 4Ω	100W x 4
RMS Power 2Ω	150W x 4
Bridged Power 4Ω	300W x 2
Mounting Type	Surface Mount
Specification Met	Military Standards
UPC	709483056244
Date First Available	January 17, 2017

## 10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact Soundstream customer service directly. Warranty terms and conditions may vary based on region and retailer. It is recommended to retain your proof of purchase for any warranty claims.