

Stetsom HL1200.4

Stetsom HL 1200.4 Multichannel Stereo Car Audio Amplifier User Manual

Model: HL1200.4 | Brand: Stetsom

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Stetsom HL 1200.4 Multichannel Stereo Car Audio Amplifier. Please read this manual thoroughly before using the product to ensure proper function and safety. The Stetsom HL 1200.4 is a high-performance 4-channel amplifier designed to deliver 1200 Watts RMS of power, offering exceptional sound quality and versatility for various car audio setups.



Figure 1: Angled front view of the Stetsom HL 1200.4 amplifier.

2. KEY FEATURES

- **Channel Configuration:** 4 independent channels for flexible audio setups.
- **Power Output:** Delivers 1200 Watts RMS total power.
- **Impedance Stability:** 2 Ohm stable, suitable for a wide range of speakers and subwoofers.
- **Full Range Capability:** Designed for full-range audio reproduction, ensuring clear and detailed sound across all frequencies.
- **Input Options:** Features RCA input for high-quality signal connection.
- **Sound Control:** Equipped with adjustable Crossover (HPF/LPF) and Bass Boost for precise sound customization.
- **HD Sound Quality:** Engineered for high-definition sound output.



Figure 2: Top view of the Stetsom HL 1200.4 amplifier, showcasing its compact design.

3. SETUP AND INSTALLATION

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

3.1. Power Connection

Connect the amplifier directly to your vehicle's battery using appropriate gauge wiring. Ensure a fuse is installed within 12 inches of the battery's positive terminal. The remote wire connects to your head unit's remote output to turn the amplifier on/off with your car's audio system.

Power installation

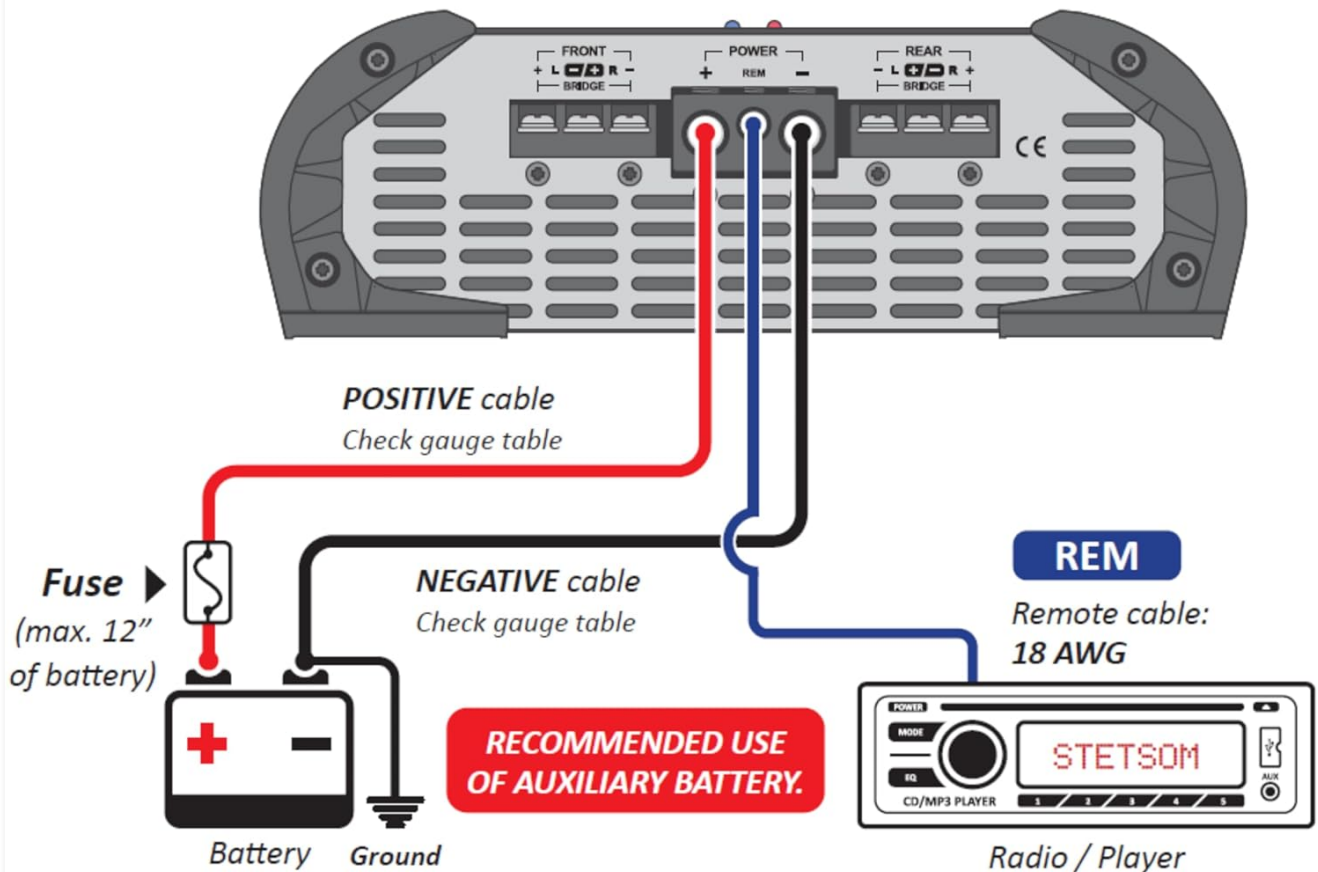


Figure 3: Diagram illustrating the correct power installation for the amplifier, including positive, negative, and remote connections with a fuse.

3.2. Audio Input Connections

The HL 1200.4 features RCA inputs for connecting to your head unit or other audio sources. It also includes high-level inputs for compatibility with factory head units that lack RCA outputs. Ensure all connections are secure to prevent signal loss or interference.



Figure 4: Close-up view of the amplifier's input and control panel, showing RCA inputs, level controls, and crossover switches.

3.3. Speaker Connections

Connect your speakers to the designated output terminals. The amplifier supports 4 channels and can be bridged for higher power output to specific speakers or subwoofers. Always verify speaker polarity and impedance compatibility before making connections.



Figure 5: View of the amplifier's power and speaker output terminals, highlighting the robust connections.

3.4. Video Guide for Stetsom HL Series Amplifiers

For a visual guide on the features and details of a similar Stetsom HL series amplifier, please watch the video below. While this video features the HL 400.4 model, many of the input and control concepts are applicable to the HL 1200.4.

Video 1: Overview of Stetsom HL 400.4 Amplifier features and details. Note: This video features the HL 400.4, but provides relevant information for the HL 1200.4's general operation and controls.

4. OPERATING THE AMPLIFIER

The Stetsom HL 1200.4 offers several controls to fine-tune your audio experience.

4.1. Level Adjustment (Gain)

The 'LEVEL' controls (gain) allow you to match the input signal from your head unit to the amplifier. Adjust these to

prevent distortion and achieve optimal sound clarity. Start with the gain at minimum and slowly increase until desired volume is reached without distortion.

4.2. Crossover Settings (HPF/LPF/Flat)

The crossover switches allow you to direct specific frequency ranges to your speakers or subwoofers:

- **HPF (High Pass Filter):** Cuts frequencies below a set point, ideal for full-range speakers to prevent them from playing low bass.
- **LPF (Low Pass Filter):** Cuts frequencies above a set point, ideal for subwoofers to ensure they only play bass frequencies.
- **FLAT:** Disables the crossover, allowing the full frequency range to pass through.

4.3. Bass Boost

The 'BASS BOOST' control allows you to enhance low frequencies. Use this feature sparingly to avoid distortion and potential damage to your speakers.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Stetsom HL 1200.4 amplifier, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the amplifier's exterior with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure the amplifier has adequate ventilation. Do not block any cooling vents. Overheating can lead to performance issues or damage.
- **Connections:** Periodically check all power, ground, remote, and speaker connections to ensure they are secure and free from corrosion.
- **Environment:** Protect the amplifier from moisture, extreme temperatures, and direct sunlight.

6. TROUBLESHOOTING

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

- **No Power:** Check the main fuse near the battery, the amplifier's internal fuse (if applicable), and all power/ground/remote connections. Ensure the remote wire is receiving 12V when the head unit is on.
- **No Sound:** Verify all RCA/high-level input connections, speaker connections, and ensure the head unit is sending an audio signal. Check amplifier gain settings.
- **Distorted Sound:** Reduce the gain (level) control on the amplifier. Check for proper crossover settings. Ensure speakers are not overdriven.
- **Amplifier Overheating:** Ensure adequate ventilation around the amplifier. Check speaker impedance to ensure it matches the amplifier's specifications.
- **Protection Mode:** If the 'PROT' (Protection) LED is illuminated, the amplifier has detected an issue (e.g., short circuit, overheating, low voltage). Turn off the system, identify and resolve the issue, then restart.

7. SPECIFICATIONS



Figure 6: Angled rear view of the Stetsom HL 1200.4 amplifier.

Feature	Value
Model Number	HL1200.4
Channels	4 channel
Power Output	1200 Watts RMS
Impedance Compatibility	2 Ohm Stable, Full Range
Input Options	RCA input
Equalization and Sound Control	Crossover, Bass Boost, HD Sound Quality
Product Dimensions (L x W x H)	8.66 x 8.27 x 2.76 inches

Feature	Value
Weight	4.17 Pounds
Voltage	12.6 Volts (DC)
Minimum Supply Voltage	9 Volts (DC)
Maximum Supply Voltage	15 Volts (DC)
Manufacturer	Stetsom
First Available	October 18, 2017



Figure 7: Angled front view of the Stetsom HL 1200.4 amplifier, highlighting the control panel.

Power installation

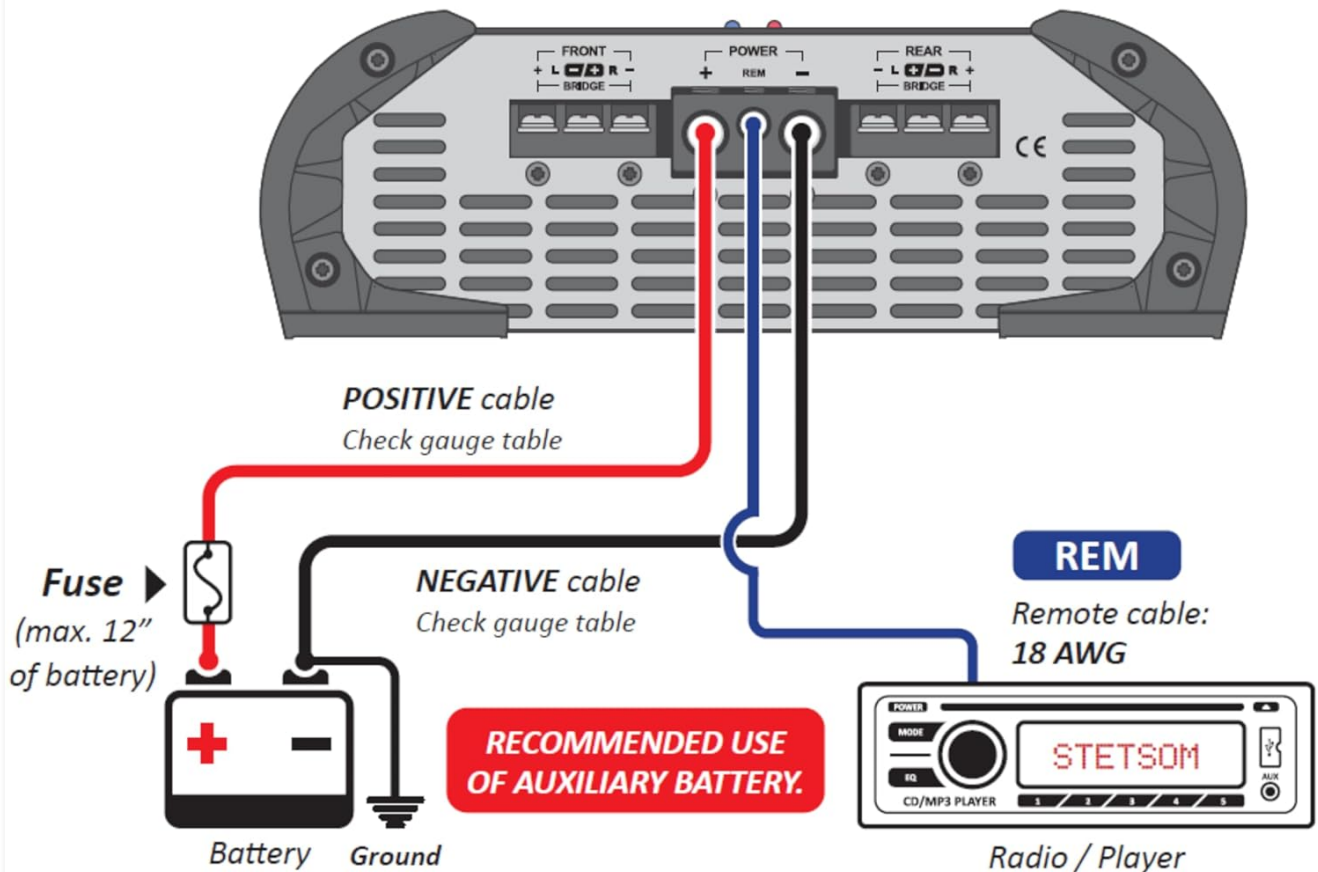








Figure 8: Dimensions and weight of the Stetsom HL 1200.4 amplifier.

8. WARRANTY AND SUPPORT

Stetsom products are manufactured to the highest standards. For warranty information, technical support, or service inquiries, please contact your authorized Stetsom dealer or visit the official Stetsom website. Keep your purchase receipt as proof of purchase for any warranty claims.

	<p>STETSOM BRAVO FULL 12000 Digital Amplifier User Manual</p> <p>Comprehensive user manual for the STETSOM BRAVO FULL 12000 digital amplifier, covering installation, operation, troubleshooting, technical specifications, and warranty information for car audio systems.</p>
	<p>Stetsom DB3000 Digital Bass Amplifier User Manual</p> <p>Comprehensive user manual for the Stetsom DB3000 Digital Bass amplifier, covering installation, operation, troubleshooting, and technical specifications. Includes multilingual content in Portuguese, English, Spanish, and Italian.</p>
	<p>Stetsom Bravo Bass 3K Digital Amplifier User Manual</p> <p>Comprehensive user manual for the Stetsom Bravo Bass 3K digital amplifier, covering installation, operation, troubleshooting, technical specifications, and warranty information.</p>
	<p>Stetsom EX3000 Black Edition User Manual - High Performance Car Amplifier</p> <p>Comprehensive user manual for the Stetsom EX3000 Black Edition car amplifier. Learn about installation, operation, troubleshooting, technical specifications, and warranty.</p>
	<p>Stetsom Bravo Full 5000/8000 Digital Amplifier User Manual</p> <p>This user manual provides detailed information on the Stetsom Bravo Full 5000 and 8000 digital amplifiers, covering installation, operation, troubleshooting, technical specifications, and warranty details.</p>
	<p>STETSOM EX8000EQ Automotive Amplifier User Manual</p> <p>Comprehensive user manual for the STETSOM EX8000EQ automotive amplifier, covering features, installation, troubleshooting, and technical specifications. Includes details on controls, connections, diagnostics, and warranty.</p>

