

Stetsom 9K EQ - 1 Ohm

Stetsom Vulcan 9K EQ - 1 Ohm 9000W RMS Full Range High Power Amplifier User Manual

INTRODUCTION

Thank you for choosing the Stetsom Vulcan 9K EQ - 1 Ohm 9000W RMS Full Range High Power Amplifier. This manual provides essential information for the proper installation, operation, and maintenance of your amplifier. Please read this manual thoroughly before using the product to ensure optimal performance and safety.

IMPORTANT SAFETY INFORMATION

- Always disconnect the vehicle's battery before making any electrical connections.
- Ensure proper grounding to prevent electrical hazards.
- Install the amplifier in a well-ventilated area to prevent overheating.
- Use appropriate gauge wiring for power and speaker connections as specified in this manual.
- Avoid exposing the amplifier to moisture or extreme temperatures.
- Do not attempt to open or repair the amplifier yourself. Refer all servicing to qualified personnel.

PRODUCT OVERVIEW

The Stetsom Vulcan 9K EQ is a high-power, full-range digital amplifier designed for automotive audio systems. It features a robust design and advanced equalization capabilities to deliver powerful and clear sound reproduction.

Key Features:

- 9000W RMS power output at 1 Ohm (12.6V)
- Full Range frequency response (10Hz to 15KHz)
- Built-in 3-band equalizer (Bass, Mid Bass, Mid High)
- Over Clip +15% Power indicator
- Protection circuits for safe operation

Component Identification:



Figure 1: Front view of the Stetsom Vulcan 9K EQ amplifier, showing the Stetsom logo, model name, power indicators (POWER, PROT, CLIP), and key specifications printed on the top panel. The input/output terminals are visible on the left side.

The amplifier features power, protection, and clip indicators on the front panel. The input and output terminals are located on the side for easy access during installation.

INSTALLATION AND SETUP

1. Power Connections:

- **Power Cable (B+):** Connect a heavy-gauge power cable directly from the positive terminal of the vehicle's battery to the B+ terminal on the amplifier. An inline fuse or circuit breaker (not included) must be installed within 18 inches (45 cm) of the battery.
- **Ground Cable (GND):** Connect a heavy-gauge ground cable from the GND terminal on the amplifier to a

clean, unpainted metal surface of the vehicle chassis. Ensure a solid, low-resistance connection.

- **Remote Turn-On (REM):** Connect a remote turn-on wire from your head unit's remote output to the REM terminal on the amplifier. This wire signals the amplifier to turn on and off with your audio system.

2. Audio Input Connections:

Connect RCA cables from your head unit's pre-out (RCA output) to the RCA input jacks on the amplifier. Ensure correct left and right channel connections if applicable, though this is a mono amplifier.

3. Speaker Output Connections:

Connect your subwoofer(s) or full-range speakers to the speaker output terminals on the amplifier. Pay close attention to polarity (+ and -) and ensure the total impedance of your speakers matches the amplifier's rated impedance (1 Ohm for this model). Refer to the specifications section for impedance details.

4. Mounting:

Mount the amplifier securely in a location that provides adequate ventilation and protection from moisture. Avoid mounting it directly on carpet or in enclosed spaces without airflow.

OPERATING INSTRUCTIONS

1. Initial Power-Up:

After all connections are made, reconnect the vehicle's battery. Turn on your head unit. The "POWER" indicator on the amplifier should illuminate, indicating it is receiving power and is operational.

2. Gain Adjustment:

Adjust the gain control on the amplifier to match the output voltage of your head unit. Start with the gain at its minimum setting. 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. The "CLIP" indicator should only flash briefly on very dynamic peaks, not stay illuminated.

3. Crossover Settings:

The Vulcan 9K EQ features adjustable crossovers:

- **Low Pass Filter (LPF):** Adjust this control to set the upper frequency limit for your subwoofers. Frequencies above this setting will be attenuated.
- **High Pass Filter (HPF):** Adjust this control to set the lower frequency limit for your speakers. Frequencies below this setting will be attenuated. This is typically used for full-range speakers or mid-bass drivers.

Refer to your speaker manufacturer's recommendations for optimal crossover points.

4. Equalizer Adjustment (3-Band EQ):

The amplifier includes a 3-band equalizer to fine-tune the audio output:

- **Bass:** Adjusts the low-frequency response.
- **Mid Bass:** Adjusts the mid-low frequency response.
- **Mid High:** Adjusts the mid-high frequency response.

Make small adjustments and listen carefully to achieve your desired sound balance. Avoid excessive boosting,

which can lead to distortion or speaker damage.

MAINTENANCE

- Keep the amplifier clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Ensure adequate airflow around the amplifier at all times to prevent overheating. Regularly check that cooling fins are not obstructed.
- Periodically check all wiring connections for tightness and corrosion. Loose connections can cause performance issues or damage.

TROUBLESHOOTING GUIDE

Problem	Possible Cause	Solution
No Power / Amplifier does not turn on	<ul style="list-style-type: none">◦ Blown fuse or tripped circuit breaker◦ Loose or incorrect power/ground/remote wiring◦ Faulty head unit remote output	<ul style="list-style-type: none">◦ Check and replace fuse/reset breaker◦ Verify all power, ground, and remote connections◦ Test remote wire for 12V when head unit is on
No Sound Output	<ul style="list-style-type: none">◦ Loose RCA or speaker connections◦ Gain set too low◦ Head unit volume too low or muted◦ Amplifier in protection mode (PROT light on)	<ul style="list-style-type: none">◦ Check all audio input and output connections◦ Increase gain gradually◦ Check head unit settings◦ Refer to "Amplifier in Protection Mode" below

Problem	Possible Cause	Solution
Amplifier in Protection Mode (PROT light on)	<ul style="list-style-type: none"> ◦ Overheating ◦ Speaker impedance too low ◦ Short circuit in speaker wiring ◦ DC offset 	<ul style="list-style-type: none"> ◦ Allow amplifier to cool down; ensure proper ventilation ◦ Verify speaker impedance matches amplifier rating ◦ Inspect speaker wires for shorts (e.g., bare wire touching chassis) ◦ Consult a professional installer
Distorted Sound	<ul style="list-style-type: none"> ◦ Gain set too high (CLIP light constantly on) ◦ Poor quality audio source ◦ Incorrect crossover settings ◦ Damaged speakers 	<ul style="list-style-type: none"> ◦ Reduce gain until CLIP light only flashes on peaks ◦ Try a different audio source ◦ Adjust LPF/HPF settings ◦ Test speakers with another amplifier

TECHNICAL SPECIFICATIONS

Feature	Value
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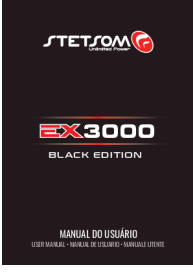




Feature	Value
RMS Power at 1 Ohm (12.6V)	1 x 9,000W RMS
RMS Power at 2 Ohm (12.6V)	1 x 5,400W RMS
RMS Power at 4 Ohm (12.6V)	1 x 3,200W RMS
RMS Power at 1 Ohm (13.8V)	1 x 10,000W RMS
RMS Power at 2 Ohm (13.8V)	1 x 6,400W RMS
RMS Power at 4 Ohm (13.8V)	1 x 3,900W RMS
Supply Voltage	9.5 ~ 15 V
Frequency Response	10Hz ~ 15KHz
Crossover Low Pass	50Hz ~ 15KHz
Crossover High Pass	10Hz ~ 70Hz
Signal to Noise Ratio	> 90 dB
Harmonic Distortion (THD)	< 0.9 %
Input Sensitivity	0.2V
Input Impedance	27K Ohms
Output Impedance	1 Ohm
Consumption (Musical Signal)	6.7A ~ 445A (12.6V)
Consumption (Bass Signal)	6.7A ~ 890A (12.6V)
Dimensions (H x W x D)	75.5 x 308 x 510 mm
Weight	7.4 Kg

WARRANTY AND SUPPORT

Stetsom products are manufactured to the highest quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Stetsom website. For technical support or service inquiries, please contact your authorized Stetsom dealer or Stetsom customer service.

Website: www.stetsom.com.br (Example link, actual link may vary)

Related Documents - 9K EQ - 1 Ohm

	<p>Stetsom Vulcan 3000 Digital Amplifier User Manual</p> <p>User manual for the Stetsom Vulcan 3000 Digital Amplifier, covering installation, operation, troubleshooting, and technical specifications.</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>
	<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>

[\[pdf\]](#) User Manual

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SISTEMA DE DIAGNOSTICO DE PROBLEMAS Caso ocorra algum problema, o amplificador ir desligar e o LED VE ... CLIP ON 10Hz 700Hz 50Hz 15KHz -10dB 10dB -10dB 10dB -10dB 10dB OFF 9K EQ - 2 OHMS / 2 x 4 Ohms **9K EQ - 1 OHM**/ 2 x 2 Ohms COM 4 ALTO-FALANTES OUTPUT HIGH LOW PASS PASS FILTER FILTER 40Hz 6...

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[\[pdf\]](#) User Manual Troubleshooting Guide

Sem título 1 Antonio WHAT TO DO IN CASE OF PROBLEMS NOT TURN ON The cables are not properly connected terminals BATT GND and REM Make sure that all connections mechanical electrical Manual 9K EQ STETSOM ING stetsom br 2014 10

LEDS INDICATORS TOP OF THE AMPLIFIER - BLUE LED POWER - RED LED PROT illuminates only when - ... CLIP ON 10Hz 700Hz 50Hz 15KHz -10dB 10dB -10dB 10dB -10dB 10dB OFF 9K EQ - 2 OHMS / 2 x 4 Ohms **9K EQ - 1 OHM**/ 2 x 2 Ohms WITH 4 SPEAKERS OUTPUT HIGH LOW PASS PASS FILTER FILTER 40Hz 60Hz...

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