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SounDigital 800.4 EVOX

Soundigital 800.4 Evox 4 Ohm 4 Channel Car Amplifier User Manual

Model: 800.4 EVOX

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your SounDigital 800.4 Evox 4 Ohm 4 Channel Car Amplifier. Please read this manual thoroughly before installation and use to ensure optimal performance and safety.

The SounDigital 800.4 Evox is a high-performance 4-channel car amplifier designed to deliver clear and powerful audio. It features advanced technology for efficient power delivery and reliable operation in automotive environments.

IMPORTANT SAFETY INFORMATION

- **Professional Installation Recommended:** Due to the complexity of automotive electrical systems, professional installation is strongly recommended to prevent damage to the amplifier, vehicle, or personal injury.
- Always disconnect the vehicle's battery before performing any electrical work.
- Ensure proper grounding to prevent electrical hazards and noise.
- Do not expose the amplifier to moisture or extreme temperatures.
- Use appropriate gauge wiring for power and speaker connections as specified in this manual.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (Proposition 65 Warning)

PRODUCT OVERVIEW

The SounDigital 800.4 Evox is a compact and powerful 4-channel amplifier. Below are images illustrating its design and connection points.



Figure 1: Top view of the SoundDigital 800.4 EvoX amplifier, highlighting its sleek black design with red accents and branding.



Figure 2: Side view of the amplifier, detailing the power input (GND, REM, +12V) and speaker output terminals (CH1, CH2, CH3, CH4).



Figure 3: Opposite side view of the amplifier, displaying the RCA input jacks and various control knobs for crossover (HPF, LPF) and gain adjustments.



Figure 4: The SounDigital 800.4 EvoX amplifier held in a hand, demonstrating its compact size relative to a human hand.



Figure 5: Bottom view of the amplifier, showing the heat sink fins designed for efficient cooling.



Figure 6: Angled view of the amplifier, providing a comprehensive look at both the power/speaker terminals and the RCA/control panel.

SETUP AND INSTALLATION

1. Mounting Location

Choose a mounting location that is dry, well-ventilated, and away from direct sunlight or heat sources. Ensure sufficient space around the amplifier for proper airflow and cooling. The amplifier can be surface mounted.

2. Wiring Connections

All wiring should be done with the vehicle's battery disconnected. Use high-quality, appropriate gauge wiring for all connections.

- **Power (BATT +12V):** Connect a fused power cable directly from the positive terminal of the vehicle's battery to the +12V terminal on the amplifier. The fuse should be located within 18 inches of the battery.
- **Ground (GND):** Connect a ground cable of the same gauge as the power cable to a clean, unpainted metal surface on the vehicle chassis. Ensure a secure, low-resistance connection.
- **Remote (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 head unit.
- **RCA Inputs:** Connect RCA cables from your head unit's pre-amp outputs to the amplifier's RCA input jacks (CH1, CH2, CH3, CH4).
- **Speaker Outputs:** Connect your speakers to the corresponding speaker output terminals (CH1, CH2, CH3, CH4). Ensure correct polarity (+ to + and - to -). The amplifier supports 4 Ohm impedance per channel.

3. Initial Power-Up

After all connections are made and verified, reconnect the vehicle's battery. Turn on your head unit. The amplifier should power on, indicated by an LED indicator (if present).

OPERATING INSTRUCTIONS

Gain Adjustment

The gain 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 piece of music at about 75% of your head unit's maximum volume. Slowly increase the

amplifier's gain until you hear distortion, then back off slightly. This ensures maximum clean output.

Crossover Settings

The SounDigital 800.4 Evox features adjustable High-Pass Filter (HPF) and Low-Pass Filter (LPF) crossovers. These allow you to direct specific frequency ranges to your speakers.

- **HPF (High-Pass Filter):** Allows frequencies above the set point to pass through. Useful for full-range speakers or tweeters to prevent low frequencies that can cause distortion or damage. Adjustable from 45Hz to 850Hz.
- **LPF (Low-Pass Filter):** Allows frequencies below the set point to pass through. Useful for subwoofers to prevent high frequencies. Adjustable from 45Hz to 850Hz.
- Adjust these settings based on your speaker types and desired sound profile. Refer to your speaker manufacturer's recommendations for optimal crossover points.

MAINTENANCE

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

TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power / Amplifier Not Turning On	<ul style="list-style-type: none">◦ Blown fuse◦ Loose power or ground connection◦ No remote turn-on signal◦ Low battery voltage	<ul style="list-style-type: none">◦ Check and replace fuse if necessary.◦ Verify all power and ground connections are secure.◦ Check remote wire connection and head unit output.◦ Ensure vehicle battery is charged and healthy.
No Sound Output	<ul style="list-style-type: none">◦ Loose RCA cables◦ Incorrect speaker wiring◦ Amplifier in protection mode◦ Head unit settings	<ul style="list-style-type: none">◦ Check RCA connections at both amplifier and head unit.◦ Verify speaker wire connections and polarity.◦ Check for short circuits in speaker wiring or speaker damage. Allow amplifier to cool if overheated.◦ Ensure head unit volume is up and source is selected correctly.

Problem	Possible Cause	Solution
Distorted Sound	<ul style="list-style-type: none"> Gain set too high Improper crossover settings Speaker impedance mismatch Poor quality audio source 	<ul style="list-style-type: none"> Reduce gain setting. Adjust HPF/LPF settings appropriately for your speakers. Ensure speakers match amplifier's impedance requirements (4 Ohm). Use high-quality audio files.
Excessive Noise (Hiss, Whine)	<ul style="list-style-type: none"> Ground loop Poor quality RCA cables Improper power/ground wiring 	<ul style="list-style-type: none"> Ensure proper grounding for all components. Use shielded RCA cables. Verify power and ground wires are not running parallel to RCA cables.

If troubleshooting steps do not resolve the issue, contact SounDigital customer support or a qualified professional.

SPECIFICATIONS

Feature	Detail
Model	800.4 EVOX
Channels	4
Power @ 12.6V @ 4Ω	4 x 132 WRMS
Power @ 12.6V @ 2Ω	4 x 200 WRMS
Bridge Power @ 12.6V @ 4Ω	2 x 400 WRMS
Power @ 14.4V @ 4Ω	4 x 147 WRMS
Power @ 14.4V @ 2Ω	4 x 223 WRMS
Bridge Power @ 14.4V @ 4Ω	2 x 446 WRMS
Frequency Response (-3dB)	5Hz – 22kHz
Signal-to-Noise Ratio (SNR)	91dB
Crossover HPF	45Hz – 850Hz
Crossover LPF	45Hz – 850Hz
Voltage (Nominal)	12.6 Volts (DC)
Minimum Supply Voltage	8 Volts
Maximum Supply Voltage	16 Volts (DC)

Feature	Detail
Supply Current	80 Amps
Item Weight	1.92 pounds
Package Dimensions	8.27 x 6.06 x 3.39 inches
Mounting Type	Surface Mount
Compliance	FCC

WARRANTY AND SUPPORT

This product is sold as "Renewed." Please refer to the specific warranty terms provided by the seller or Amazon Renewed program at the time of purchase. Typically, renewed products come with a limited warranty or return policy.

For technical support or warranty claims, please contact the seller directly or refer to the SounDigital official website for contact information. You may also refer to the Amazon Renewed Store for information regarding renewed product policies: [Amazon Renewed Store](#).

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Related Documents - 800.4 EVOX

	<p>SounDigital 8000.1 EVOX Amplifier User Manual</p> <p>User manual for the SounDigital 8000.1 EVOX amplifier, covering installation, features, safety, and technical specifications.</p>
	<p>SounDigital 400.2 EVOX Owner's Manual</p> <p>Comprehensive owner's manual for the SounDigital 400.2 EVOX amplifier, covering installation, features, technical specifications, and safety instructions.</p>

	<p>SounDigital 1200.4 EVOX Amplifier Owner's Manual and Installation Guide</p> <p>Comprehensive owner's manual and installation guide for the SounDigital 1200.4 EVOX amplifier, covering its features, safety precautions, installation procedures, wiring diagrams, gain setting, crossover configuration, and detailed technical specifications.</p>
	<p>SounDigital 1200.4 EVO5 Owner's Manual</p> <p>Get detailed insights into the SounDigital 1200.4 EVO5 car amplifier with this comprehensive owner's manual. It covers installation, wiring diagrams, gain settings, crossover setup, and technical specifications for optimal car audio performance and system integration.</p>
	<p>SounDigital 3000.1 EVO5 User Manual: Installation, Features, and Specifications</p> <p>Comprehensive user manual for the SounDigital 3000.1 EVO5 amplifier, covering installation, safety, technologies, technical specifications, and gain/crossover adjustments. Learn how to optimize your car audio system.</p>
	<p>SounDigital 800.4 EVOPS Owner's Manual</p> <p>Comprehensive owner's manual for the SounDigital 800.4 EVOPS power sports amplifier, detailing features, installation, wiring, and technical specifications.</p>



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