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SounDigital 2400.4 EVOX

SounDigital 2400.4 EVOX 4-Channel Car Amplifier Instruction Manual

Model: 2400.4 EVOX

1. PRODUCT OVERVIEW

The SounDigital 2400.4 EVOX is a high-performance 4-channel car amplifier designed to deliver powerful and clear audio. This amplifier is engineered for robust performance in automotive audio systems, providing significant power output across its four channels. It features a compact design and advanced thermal management for reliable operation.



Figure 1: Front-top view of the SounDigital 2400.4 EVOX amplifier. This image displays the sleek black casing with the SounDigital logo and EVOX branding, highlighting its compact form factor.

2. SAFETY INFORMATION

Read all instructions carefully before installation and use. Failure to follow these safety guidelines may result in injury or damage to the product or vehicle.

- **Professional Installation Recommended:** Installation of car audio equipment can be complex. It is highly recommended that a qualified professional perform the installation.
- **Power Disconnection:** Always disconnect the vehicle's negative battery terminal before starting any electrical work to prevent short circuits and electrical shock.
- **Proper Wiring:** Use appropriate gauge wiring for power, ground, and speaker connections as specified in the installation section. Incorrect wiring can lead to overheating and fire hazards.
- **Ventilation:** Ensure the amplifier is mounted in a location with adequate ventilation to prevent overheating. Do not block cooling vents.
- **Moisture and Heat:** Avoid exposing the amplifier to moisture, water, or extreme temperatures.
- **Secure Mounting:** Mount the amplifier securely to prevent it from becoming a projectile in the event of a sudden stop or accident.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- SounDigital 2400.4 EVOX 4-Channel Car Amplifier Unit
- Instruction Manual
- Mounting Hardware (screws, washers)

4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. Follow these steps carefully.

4.1 Mounting Location

Choose a dry, well-ventilated location away from direct sunlight and heat sources. Ensure sufficient space around the amplifier for airflow, especially near the cooling fins and fans. Avoid mounting on carpet or other materials that can impede airflow.

4.2 Power Connections

The amplifier requires a direct connection to the vehicle's battery. Use heavy-gauge power and ground cables to minimize voltage drop and ensure stable power delivery.

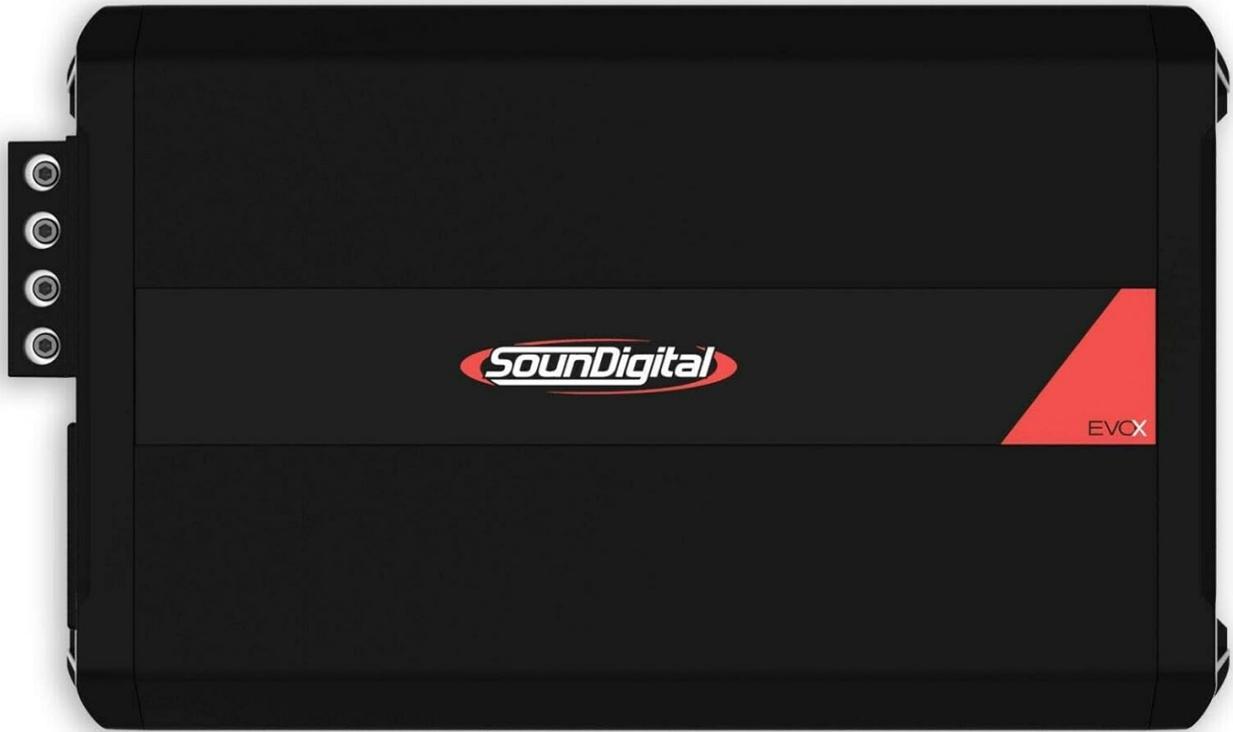


Figure 2: Front view of the SounDigital 2400.4 EVOX amplifier, showing the power input terminals. The image highlights the positive (+) and negative (-) terminals for battery connection.

1. **Power Cable (+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.
2. **Ground Cable (GND):** Connect a ground cable of the same gauge as the power cable from the GND terminal on the amplifier to a clean, unpainted metal surface on the vehicle chassis. Ensure a solid, low-resistance connection.
3. **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 head unit.

4.3 Audio Input Connections

Connect the RCA cables from your head unit's pre-amp outputs to the RCA input jacks on the amplifier.



Figure 3: Rear-top view of the SoundDigital 2400.4 EVOX amplifier, displaying the audio input (RCA) and control panel. This includes the gain adjustment knob and other settings.

4.4 Speaker Output Connections

Connect your speakers to the speaker output terminals on the amplifier. Ensure correct polarity (+ to + and - to -) for each speaker. This 4-channel amplifier supports various configurations, including stereo and bridged modes.

- **Stereo Mode:** Connect one speaker per channel. Ensure the speaker impedance matches the amplifier's rated impedance for stereo operation (e.g., 2 or 4 Ohms per channel).
- **Bridged Mode:** For higher power output to subwoofers or specific speakers, two channels can be bridged to form a single, more powerful channel. Refer to the amplifier's specific bridging instructions and ensure the combined impedance of the bridged speakers meets the amplifier's minimum bridged impedance rating (e.g., 4 Ohms).

5. OPERATING INSTRUCTIONS

Once installed, follow these steps to configure and operate your amplifier.

5.1 Gain Adjustment

The gain control (labeled 'GAIN' on the amplifier) matches the output voltage of your head unit to the input sensitivity of the amplifier. It is not a volume control.

1. Start with the gain control set to minimum (fully counter-clockwise).

2. Turn your head unit volume up to about 75-80% of its maximum level.
3. Slowly increase the amplifier's gain control until you hear distortion, then back it off slightly until the sound is clear.

5.2 Indicator Lights

The amplifier features indicator lights to provide status information:

- **ON:** Illuminates when the amplifier is powered on and operating normally.
- **CLIP:** Illuminates when the audio signal is clipping (distorting). Reduce the gain or head unit volume if this light is consistently on.
- **PROT (Protection):** Illuminates when the amplifier enters protection mode due to overheating, short circuit, or low voltage. The amplifier will shut down to prevent damage.

6. MAINTENANCE

Regular maintenance ensures the longevity and performance of your amplifier.

- **Cleaning:** Periodically clean the exterior of the amplifier with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners. Ensure cooling vents are free from dust and debris.
- **Connection Check:** Annually inspect all power, ground, and speaker connections for tightness and corrosion. Loose connections can cause poor performance or damage.
- **Ventilation:** Ensure the amplifier's mounting location remains clear of obstructions to maintain proper airflow.

7. TROUBLESHOOTING

If you experience issues with your amplifier, consult this section before seeking professional assistance.

Problem	Possible Cause	Solution
Amplifier does not turn on (ON light off)	No power, ground, or remote signal. Blown fuse.	Check all power, ground, and remote connections. Verify the in-line fuse near the battery and the amplifier's internal fuses (if applicable). Ensure the head unit is on and sending a remote signal.
No sound output	RCA cables disconnected, speaker wires disconnected/shorted, gain too low, head unit issue.	Check RCA connections from head unit to amplifier. Verify speaker wire connections and ensure no shorts. Increase gain. Test with a different audio source or head unit.
Distorted sound (CLIP light on)	Gain set too high, input signal too strong, speaker impedance mismatch.	Reduce amplifier gain. Reduce head unit volume. Verify speaker impedance matches amplifier specifications.

Problem	Possible Cause	Solution
Amplifier goes into protection mode (PROT light on)	Overheating, short circuit in speaker wiring, low voltage, high voltage.	Allow amplifier to cool down. Check speaker wiring for shorts. Verify vehicle's electrical system voltage (8V-16V). Ensure proper ventilation.

8. SPECIFICATIONS

Detailed technical specifications for the SounDigital 2400.4 EVOX amplifier:

- **Channels:** 4
- **Power Output (12.6V):**
 - 4 Ohms: 4 x 396 WRMS
 - 2 Ohms: 4 x 600 WRMS
- **Bridged Power Output (12.6V):**
 - 4 Ohms: 2 x 1200 WRMS
- **Power Output (14.4V):**
 - 4 Ohms: 4 x 441 WRMS
 - 2 Ohms: 4 x 669 WRMS
- **Bridged Power Output (14.4V):**
 - 4 Ohms: 2 x 1338 WRMS
- **Operating Voltage:** 8V – 16V DC
- **Frequency Response (-3dB):** 5Hz – 22kHz
- **Supply Current:** 121 Amps (Maximum)
- **Material:** Metal and Plastic
- **Item Weight:** 8 pounds
- **Package Dimensions:** 15 x 8 x 6 inches
- **Mounting Type:** Surface Mount
- **Certifications:** FCC

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact SounDigital customer service. Keep your proof of purchase for warranty claims.

