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DS18 SXE-2000.4D

DS18 SXE-2000.4D 4-Channel Car Amplifier

USER INSTRUCTION MANUAL

1. Introduction

Thank you for choosing the DS18 SXE-2000.4D 4-Channel Class D Full Range Car Amplifier. This amplifier is designed to enhance your vehicle's audio system with powerful and clear sound reproduction. Its compact design allows for versatile installation in various car audio setups. Please read this manual thoroughly before installation and operation to ensure proper use and maximum performance.



Figure 1: DS18 SXE-2000.4D 4-Channel Amplifier Overview

2. Safety Information

- Always disconnect the vehicle's battery negative terminal before starting any electrical work.
- Ensure all wiring is properly routed and secured to prevent damage or short circuits.
- Use appropriate gauge wiring for power, ground, and speaker connections as specified.
- Install the amplifier in a location that allows for adequate ventilation to prevent overheating.
- Avoid mounting the amplifier in areas exposed to moisture or excessive vibration.
- If you are unsure about any installation steps, consult a professional car audio installer.

3. Package Contents

Verify that your package contains the following items:

- DS18 SXE-2000.4D 4-Channel Amplifier
- User Manual (this document)

4. Features

The DS18 SXE-2000.4D amplifier offers a range of features designed for optimal audio performance:

- **Class D Circuit Design:** Provides high efficiency and powerful performance in a compact size.
- **4-Channel Configuration:** Supports multiple speaker setups, including bridging for higher power output.
- **Fully Variable Crossover:** Adjustable High-Pass Filter (HPF), Low-Pass Filter (LPF), and Full Range settings for precise sound tuning.
- **Adjustable Gain Input Sensitivity:** Allows matching the amplifier's input to your head unit's output level.
- **Comprehensive Electronic Protection:** Includes thermal protection against overheating, overload protection, and short-circuit output protection for reliability.
- **Compact Size:** Facilitates easy installation in various vehicle types.

5. Installation

Proper installation is crucial for the performance and longevity of your amplifier. Follow these guidelines carefully.

5.1 Mounting Location

Choose a mounting location that is dry, well-ventilated, and protected from direct sunlight or excessive heat. Ensure there is sufficient space around the amplifier for air circulation. Avoid mounting on subwoofer enclosures or areas prone to vibration.

5.2 Wiring Connections

Refer to the diagram below for proper wiring connections. Use high-quality wiring and connectors for optimal performance and safety.



Figure 2: Amplifier Control Panel and Terminal Layout

Power Connections

- **+12V (Power):** Connect directly to the positive terminal of the vehicle's battery using a fuse holder within 18 inches of the battery. Use a 4-gauge power wire.
- **GND (Ground):** Connect to a clean, unpainted metal surface of the vehicle chassis. Ensure a solid connection for proper grounding. Use a 4-gauge ground wire, as short as possible.
- **REM (Remote):** Connect to the remote turn-on output of your head unit. This wire turns the amplifier on and off with your stereo.



Figure 3: Power and Speaker Terminal Connections

Audio Input (RCA)

Connect the RCA output cables from your head unit to the RCA input jacks on the amplifier. Ensure correct channel

matching (Front L/R, Rear L/R).

Speaker Outputs

Connect your speakers to the amplifier's speaker output terminals. Observe correct polarity (+ to + and - to -). For bridged operation, refer to the specific bridging instructions for your speaker configuration.

6. Operating Instructions

Once installed, adjust the amplifier settings for optimal sound quality.



Figure 4: RCA Inputs and Control Knobs

6.1 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 track 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 signal without clipping.

6.2 Crossover Settings (X-OVER)

The SXE-2000.4D features a fully variable crossover for each channel pair (Front/Rear). Use the X-OVER switch to select between:

- **HPF (High-Pass Filter):** Allows frequencies above the set point to pass through. Ideal for full-range speakers to prevent low bass distortion.
- **LPF (Low-Pass Filter):** Allows frequencies below the set point to pass through. Typically used for subwoofers (though this is a full-range amp, LPF can be used for specific speaker types).
- **FULL:** Allows all frequencies to pass through.

Adjust the FREQ knob to set the desired crossover frequency. Typical settings for full-range speakers are HPF between 80Hz and 120Hz.

7. Maintenance

To ensure long-term performance of your DS18 SXE-2000.4D amplifier:

- Regularly check all wiring connections for tightness and corrosion.

- Keep the amplifier clean and free of dust and debris. Use a soft, dry cloth for cleaning.
- Ensure the amplifier's cooling fins are not obstructed to maintain proper heat dissipation.
- Avoid spilling liquids on the amplifier.

8. Troubleshooting

If you experience problems with your amplifier, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No Power (PWR LED Off)	Blown fuse, poor power/ground connection, no remote signal.	Check inline fuse, verify +12V, GND, and REM connections. Ensure remote wire is receiving +12V from head unit.
No Sound	RCA cables disconnected, speaker wires disconnected/shorted, gain too low, head unit issue.	Check RCA connections, inspect speaker wiring for shorts or disconnections, adjust gain, test head unit with another amplifier if possible.
Distorted Sound	Gain set too high, improper crossover settings, damaged speakers, poor ground.	Reduce gain, adjust crossover settings, check speaker condition, verify ground connection.
Amplifier Overheating (Thermal Protection)	Insufficient ventilation, impedance too low, prolonged high output.	Ensure proper airflow around the amplifier, verify speaker impedance matches amplifier specifications, reduce volume or allow amplifier to cool.
Protection LED On	Short circuit in speaker wiring, amplifier overheating, DC offset.	Disconnect all speakers and RCA inputs. If LED turns off, reconnect one by one to identify fault. Check for overheating. Consult professional if issue persists.

9. Specifications

Detailed technical specifications for the DS18 SXE-2000.4D amplifier:

Specification	Value
Model	SXE-2000.4D
Number of Channels	4
Output Power (RMS @ 4 Ohms)	4 x 100 Watts
Output Power (RMS @ 2 Ohms)	4 x 160 Watts
Output Power (Bridged RMS @ 4 Ohms)	2 x 320 Watts
Maximum Output Power	2000 Watts (Peak)
Minimum Impedance (Stereo)	2 Ohms
Minimum Impedance (Bridged)	4 Ohms
Frequency Response	10Hz - 20kHz

Specification	Value
Efficiency at 4-Ohms	90%
Signal to Noise Ratio	>90dB
Total Harmonic Distortion (THD)	0.10%
Input Range	200mV - 5V
Maximum Supply Voltage	16.5 Volts (DC)
Item Dimensions (L x W x H)	6.4 x 5.5 x 1.8 inches
Mounting Type	Freestanding

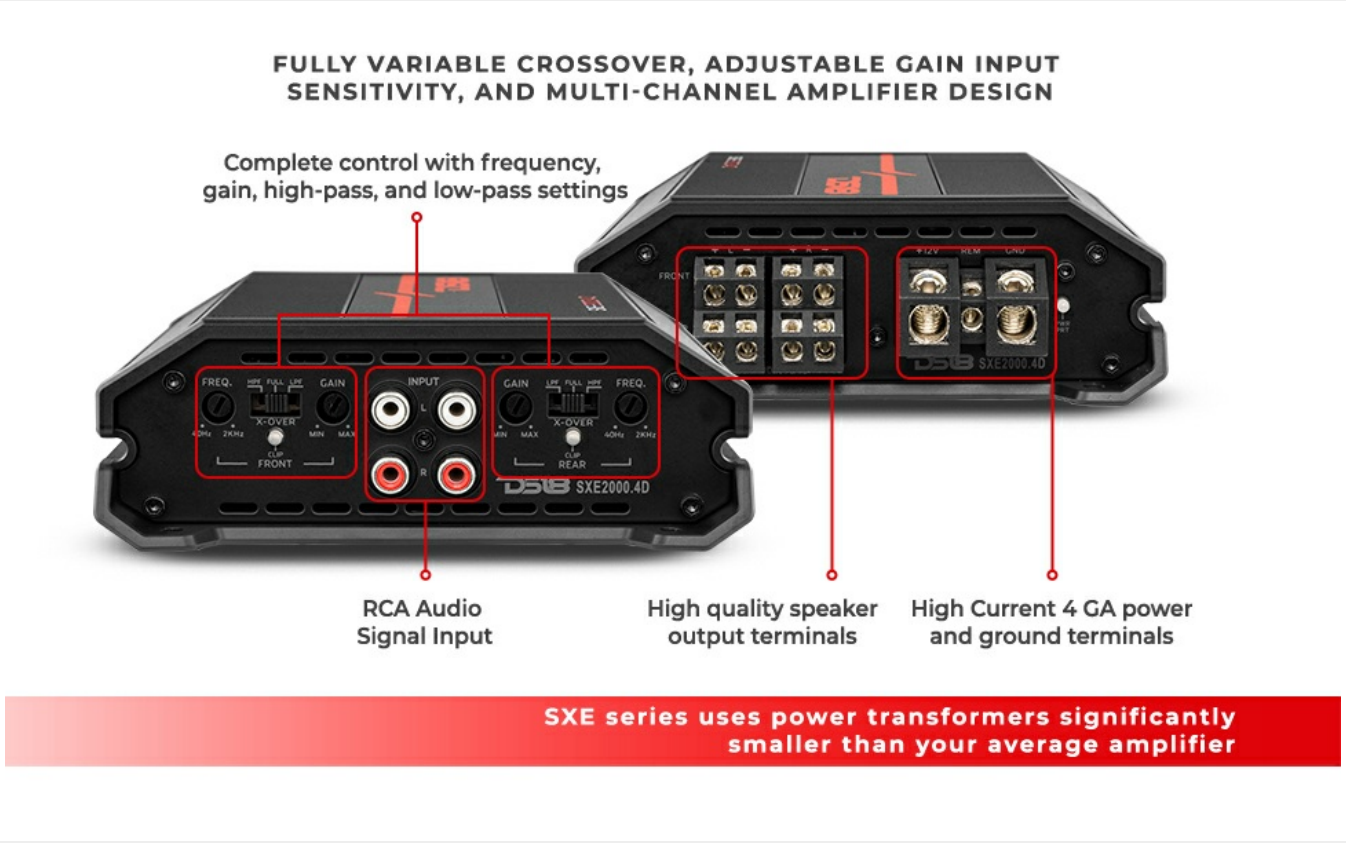

Figure 5: Internal Components and Quality Construction

10. Warranty Information

The DS18 SXE-2000.4D amplifier comes with a**1-Year Manufacturer's Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, accident, misuse, abuse, neglect, unauthorized modification, or normal wear and tear. Please retain your proof of purchase for warranty claims.

11. Customer Support

For technical assistance, warranty inquiries, or further information regarding your DS18 SXE-2000.4D amplifier, please contact DS18 customer support through their official website or the retailer where the product was purchased. Have your model number and purchase date ready when contacting support.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Details

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