

## DS18 G4000.5D

# DS18 G4000.5D GEN-X Full-Range Class D 5-Channel Amplifier Instruction Manual

Your comprehensive guide to installation, operation, and maintenance.

## 1. INTRODUCTION

The DS18 G4000.5D GEN-X Full-Range Class D 5-Channel Amplifier is designed to deliver powerful and clear audio performance for your car audio system. This manual provides essential information for proper installation, operation, and troubleshooting to ensure optimal performance and longevity of your amplifier.

## 2. SAFETY GUIDELINES

- **Professional Installation:** It is highly recommended to have this amplifier installed by a qualified professional to prevent damage to the unit or your vehicle.
- **Power Connections:** Ensure all power connections are secure and properly insulated to prevent short circuits and electrical hazards. Use appropriate gauge wiring.
- **Ventilation:** Mount the amplifier in a location that allows for adequate airflow to prevent overheating. Avoid covering the heat sinks.
- **Water Exposure:** Do not expose the amplifier to moisture or water.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume responsibly.

## 3. PACKAGE CONTENTS

- DS18 G4000.5D Amplifier
- Remote Bass Knob with Cable
- RCA Adapter (for high-level input)
- Mounting Hardware (screws)
- User Manual (this document)

## 4. PRODUCT FEATURES

- **High Power Output:** Delivers up to 4000 Watts Max Power for robust audio.

- **Versatile Impedance:** Stable at 2 Ohm and 4 Ohm loads, with 1 Ohm stability for the subwoofer channel.
- **Bridgeable Channels:** Allows for flexible speaker configurations.
- **Integrated Filters:** Features High-Pass Filter (HPF) and Low-Pass Filter (LPF) for precise sound tuning.
- **Bass Boost:** Adjustable bass boost for enhanced low-frequency response.
- **Compact Design:** Small footprint for easy installation in various vehicle spaces.
- **Remote Bass Knob:** Included for convenient bass level adjustment.

5. TECHNICAL SPECIFICATIONS

Feature	Specification
Total Watts (Peak)	4000W
RMS Power @ 4 Ohm	4 x 130W / SUB: 300W
RMS Power @ 2 Ohm	4 x 220W / SUB: 600W
RMS Power @ 1 Ohm	SUB: 900W
RMS Power @ 4 Ohm (Bridged)	2 x 420W
Frequency Response	20Hz-20KHz
Signal to Noise Ratio	>90dB
Efficiency @ 4 Ohm	0.83
Damping Factor	78
Input Impedance	22K
Channel Separation	55dB
Total Harmonic Distortion (THD)	0.0001
Low Level Input Range	0.25-6V
High Level Input	No
Selectable Crossover	HPF/LPF
Crossover Filter Range (HPF)	10-250Hz
Crossover Filter Range (LPF)	50-250Hz
Bass Boost Range	0-12dB
Bass Boost Frequency	Fixed @ 45Hz
Infrasonic Filter	10-50Hz
Phase Selector	No
Number of Channels	5
Item Model Number	G4000.5D
Item Weight	5.92 pounds

Package Dimensions	15.16 x 7.48 x 3.31 inches
Connectivity Technologies	RCA

## 6. SETUP AND INSTALLATION

### 6.1. Mounting the Amplifier

Choose a mounting location that provides adequate ventilation and is protected from moisture. Ensure the amplifier is securely fastened to a solid surface in your vehicle.



Figure 1: Top view of the DS18 G4000.5D amplifier.

### 6.2. Wiring Connections

Proper wiring is crucial for performance and safety. Refer to the diagram below for power, ground, remote, and speaker connections.



Figure 2: Power input and speaker output terminals. Ensure correct polarity and secure connections.

- **Power Input (+12V):** Connect to the positive terminal of your vehicle's battery using a fuse-protected power cable of appropriate gauge.
- **Ground (GND):** Connect to a clean, unpainted metal surface on the vehicle chassis. Ensure a solid ground connection.
- **Remote (REM):** Connect to the remote turn-on output of your head unit.
- **Speaker Output:** Connect your speakers to the designated terminals. Pay attention to impedance and polarity.

### 6.3. Input Connections

The G4000.5D amplifier uses low-level RCA inputs. If your head unit does not have RCA outputs, you may use a high-level to low-level converter (often included or sold separately) connected to your speaker wires.

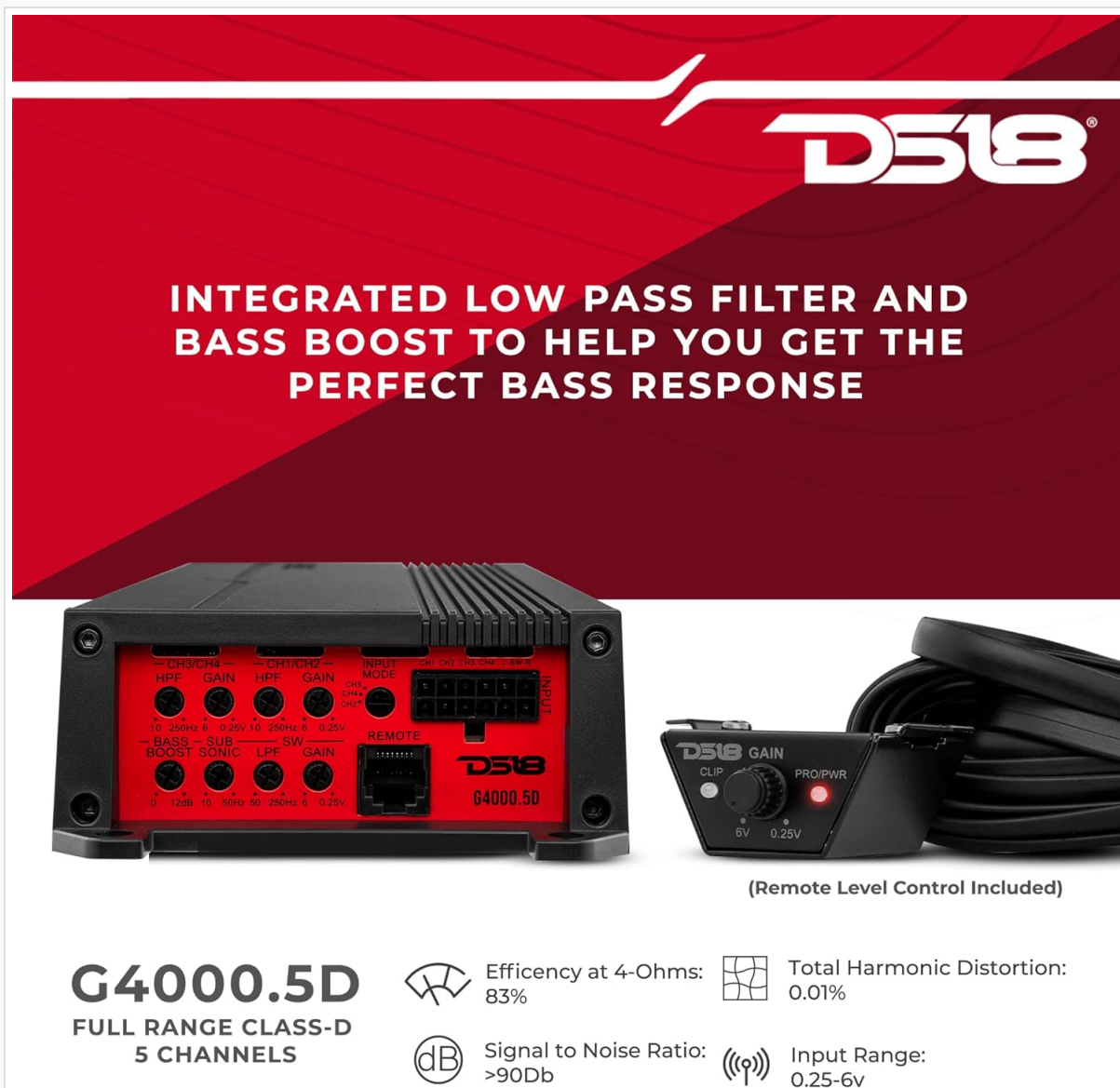


Figure 3: Control panel with RCA inputs and adjustment knobs.



Figure 4: RCA adapter for connecting high-level speaker outputs to the amplifier's low-level inputs.

## 7. OPERATING INSTRUCTIONS

### 7.1. Adjusting Controls

The amplifier features various controls to fine-tune your audio system. Adjust these settings carefully to achieve

desired sound quality.



Figure 5: Close-up view of the amplifier's control panel, showing gain, crossover, and bass boost settings.

- **Gain:** Adjust the input sensitivity to match the output of your head unit. Start with the gain at minimum and slowly increase until distortion is heard, then back off slightly.
- **HPF (High-Pass Filter):** Used for full-range speakers to block low frequencies, preventing distortion and improving clarity. Adjustable from 10Hz to 250Hz.
- **LPF (Low-Pass Filter):** Used for subwoofers to block high frequencies, ensuring only bass notes are reproduced. Adjustable from 50Hz to 250Hz.
- **Bass Boost:** Increases the output at 45Hz. Adjustable from 0-12dB. Use sparingly to avoid distortion.
- **Infrasonic Filter:** Filters out extremely low, inaudible frequencies (10-50Hz) that can waste amplifier power and damage subwoofers.

## 7.2. Remote Bass Knob

The included remote bass knob allows for convenient adjustment of the subwoofer channel's bass level from your driving position.



DS18®

# BUILT TO BOOST G-SERIES AMPLIFIERS



**G4000.5D**  
FULL RANGE CLASS-D  
5 CHANNELS



MAX Watts:  
4000W Peak



Minimum Impedance:  
2ohm St / 4ohm Bridge /  
1ohm Sub



Frequency:  
20Hz-20Khz



Efficiency at 4-Ohms:  
83%

Figure 6: The amplifier shown with the remote bass knob, which connects via a telephone-style cable.

## 8. MAINTENANCE

To ensure the longevity and optimal performance of your DS18 G4000.5D amplifier, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier. Avoid using harsh chemicals or abrasive cleaners.
- **Connection Checks:** Periodically inspect all wiring connections (power, ground, remote, and speaker) to ensure they are tight and free from corrosion.
- **Ventilation:** Ensure that the amplifier's ventilation fins remain clear of obstructions to allow for proper heat dissipation.

## 9. TROUBLESHOOTING

If you experience issues with your amplifier, consult the table below for common problems and their solutions.

Problem	Possible Cause	Solution
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No Power / No Sound	Blown fuse, loose power/ground/remote wire, amplifier in protect mode.	Check fuses, verify all power connections are secure, ensure remote wire is receiving +12V, check for shorted speaker wires.
Distorted Sound	Gain set too high, improper crossover settings, poor ground connection, damaged speakers.	Reduce gain, adjust crossover filters, check ground connection, inspect speakers for damage.
Amplifier Overheating	Insufficient ventilation, improper impedance load, prolonged high volume.	Ensure adequate airflow around the amplifier, verify speaker impedance matches amplifier's capabilities, reduce volume.
No Bass from Subwoofer	LPF set too low or off, subwoofer channel gain too low, phase incorrect.	Adjust LPF to appropriate frequency, increase subwoofer gain, check subwoofer phase setting.

## 10. OFFICIAL PRODUCT VIDEO

Watch the official product video for a visual overview of the DS18 G4000.5D Full Range Amplifier Class D 5-Channel.



*Video 1: G4000.5D Full Range Amplifier Class D 5-Channel - Features and overview by DS18.*






## 11. WARRANTY AND SUPPORT

DS18 products are designed and 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 DS18 website. For technical support or customer service inquiries, please contact DS18 directly through their official channels.

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### Related Documents - G4000.5D

	<p><a href="#">DS18 GEN-X Series Class D Car Audio Amplifiers Owner's Manual</a></p> <p>This owner's manual provides comprehensive details on DS18 GEN-X series Class D car audio amplifiers, including installation, features, controls, and troubleshooting for models such as G1800.1D, G700.2D, G1000.4D, G1800.4D, G3600.4D, G8400.4D, and G4000.5D.</p>
	<p><a href="#">DS18 CANDY-6 6-Channel Full Range Class D Amplifier Owner's Manual &amp; Installation Guide</a></p> <p>Comprehensive owner's manual and installation guide for the DS18 CANDY-6 6-channel full-range Class D amplifier. Features technical specifications, connection diagrams, and setup instructions for optimal audio performance.</p>

 <p>GEN-X4500.1D OWNER'S MANUAL</p>  <p>WE LIKE IT LOUD</p>	<p><a href="#">DS18 GEN-X4500.1D Owner's Manual</a></p> <p>Comprehensive owner's manual for the DS18 GEN-X4500.1D amplifier, detailing functions, controls, electrical connections, system wiring, specifications, and troubleshooting tips.</p>
	<p><a href="#">DS18 CANDY-X Series Class D Amplifiers Owner's Manual</a></p> <p>Owner's manual for DS18 CANDY-X series Class D amplifiers, covering models CANDY-X1B, CANDY-X2B, CANDY-X4B, CANDY-X5B, and CANDY-XXL1B. Includes functions, controls, system wiring diagrams, troubleshooting, and specifications.</p>
	<p><a href="#">DS18 GEN-X104D 10-Inch Subwoofer Owner's Manual and Specifications</a></p> <p>Detailed owner's manual, specifications, and recommended enclosure dimensions for the DS18 GEN-X104D 10-inch subwoofer. Includes technical data, Thiele &amp; Small parameters, and box design guidelines.</p>
	<p><a href="#">DS18 HOOL-X12.1DHE 12" Competition High Excursion Subwoofer Owner's Manual</a></p> <p>Owner's manual for the DS18 HOOL-X12.1DHE 12-inch competition high excursion subwoofer, detailing specifications, dimensions, and recommended enclosure designs for optimal performance.</p>