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› [DS18 G1000.4D Car Amplifier GEN-X Full-Range Class D 4-Channel 1000 Watts Max Power User Manual](#)

## DS18 G1000.4D

# DS18 G1000.4D Car Amplifier

## INSTRUCTION MANUAL

Model: G1000.4D

### Introduction

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Thank you for choosing the DS18 G1000.4D GEN-X Full-Range Class D 4-Channel Car Amplifier. This manual provides essential information for the proper installation, operation, and maintenance of your amplifier. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and safety.

### Important Safety Information

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- Always disconnect the vehicle's battery negative terminal before starting any electrical work.
- Ensure proper grounding to prevent electrical hazards.
- Use appropriate wire gauges for power and speaker connections as specified in the installation section.
- Mount the amplifier securely in a dry, well-ventilated area, away from direct sunlight, heat sources, and moisture.
- Avoid running wires near sharp edges or moving parts.
- If you are unsure about any part of the installation process, seek professional assistance.

### Package Contents

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- DS18 G1000.4D Amplifier
- Owner's Manual (this document)
- Mounting hardware (screws, etc.)

### Key Features

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- **Class D Amplifier:** Compact design with high efficiency.

- **4-Channel Output:** Capable of powering multiple speakers.
- **Bridgeable:** Allows for higher power output to fewer channels.
- **Adjustable Crossover:** Variable High Pass Filter (HPF) and Low Pass Filter (LPF) for precise sound tuning.
- **High Level Input Compatibility:** Direct signaling to radio unit.
- **Compact Design:** Small footprint for versatile installation.

## Specifications

Feature	Specification
Model Number	G1000.4D
Output Power (Max)	1000 Watts
RMS Power @ 4 Ohms	4 x 90W
RMS Power @ 2 Ohms	4 x 150W
RMS Power Bridged @ 4 Ohms	2 x 300W
Number of Channels	4
Amplifier Class	Class D
Frequency Response	20Hz-20kHz
Signal-to-Noise Ratio (SNR)	>90 dB
Total Harmonic Distortion (THD)	0.01%
Input Sensitivity (Low Level)	0.25V - 6V
Input Impedance	22K Ohms
Damping Factor	78
Efficiency @ 4 Ohms	92%
Dimensions (L x W x H)	8.1 x 4.72 x 1.96 inches
Item Weight	3.1 pounds
Voltage	12 Volts

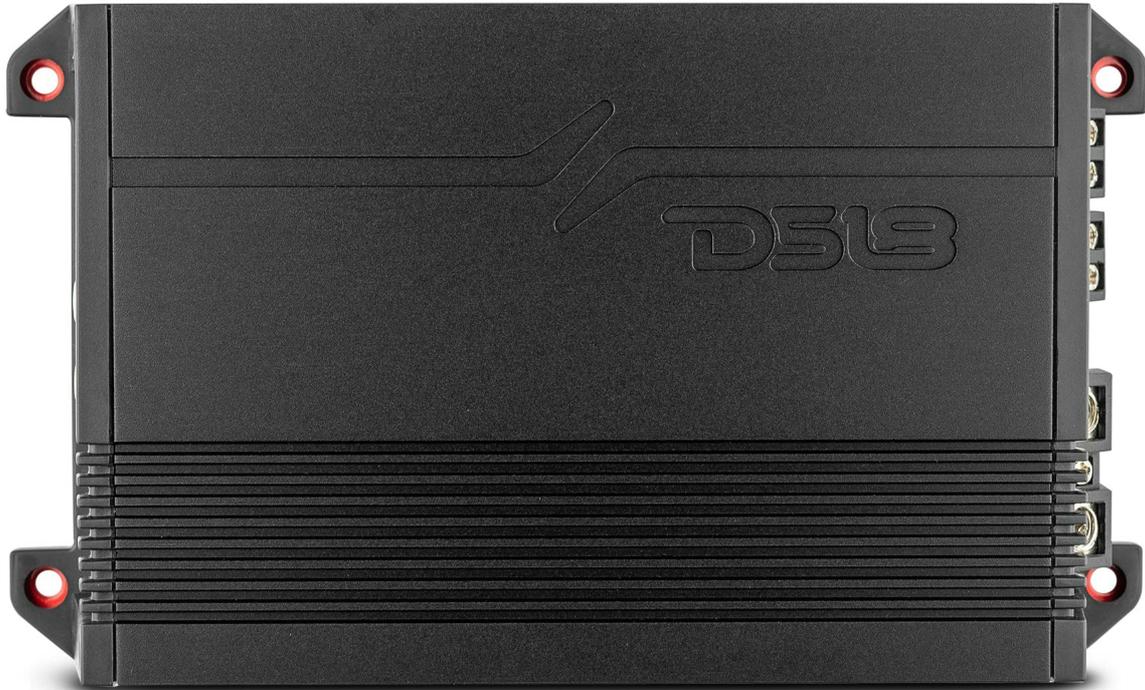
## Setup and Installation

Proper installation is crucial for the performance and longevity of your amplifier. If you are not confident in your ability to install this product, please consult a professional car audio installer.

### Mounting the Amplifier

Choose a mounting location that is dry, well-ventilated, and protected from direct sunlight and excessive heat. Ensure

there is sufficient airflow around the amplifier's heatsink. Secure the amplifier using the provided mounting hardware.



*Figure 1: Top view of the DS18 G1000.4D amplifier, showing its compact design.*

## Wiring Connections

All wiring should be done with the vehicle's battery disconnected. Use high-quality wiring of appropriate gauge to minimize power loss and ensure safe operation.

### Power Connections

- **GND (Ground):** Connect to a clean, solid metal point on the vehicle chassis. Ensure the connection is free of paint or rust.
- **REM (Remote Turn-On):** Connect to the remote output of your head unit. This wire turns the amplifier on and off with your stereo.
- **+12V (Power):** Connect directly to the positive terminal of the vehicle's battery. An inline fuse holder with the correct amperage rating (not provided, consult specifications for recommended fuse size) must be installed within 18 inches of the battery.



Figure 2: Close-up of the power input terminals (GND, REM, +12V) and speaker output terminals on the DS18 G1000.4D amplifier.

### Speaker Output Connections

Connect your speakers to the appropriate speaker output terminals. Ensure correct polarity (+ to + and - to -) for each speaker. Refer to the amplifier's specifications for minimum impedance requirements for stereo and bridged modes.



**HIGH QUALITY TERMINALS THAT LOOK GREAT  
AND WILL TRANSFER YOUR POWER  
AND SIGNAL WITH NO LOSS.**



## **G1000.4D**

**FULL RANGE CLASS-D  
4 CHANNELS**



Efficiency at 4-Ohms:  
92%



Total Harmonic Distortion:  
0.01%



Signal to Noise Ratio:  
>90Db



Input Range:  
0.25-6v

Figure 3: Overview of the DS18 G1000.4D amplifier's input and output connections, including power, remote, ground, and speaker terminals.

### **Audio Input Connections**

The G1000.4D supports both low-level (RCA) and high-level inputs.

- **Low-Level Input (RCA):** Connect RCA cables from your head unit's pre-amp outputs to the amplifier's RCA input jacks (CH1/CH2, CH3/CH4).
- **High-Level Input:** If your head unit does not have RCA outputs, use the high-level input connectors. Connect the speaker wires from your head unit directly to these inputs.



Figure 4: Close-up of the input and control panel, showing RCA inputs, high-level inputs, gain controls, and crossover switches.

## Initial Settings

Before powering on, set the GAIN controls to minimum and the X-OVER switches to the desired setting (HPF, LPF, or FULL). Adjust these settings carefully after the system is powered on.

## Unboxing and Internal View (Video)

This video provides a detailed look at the DS18 G1000.4D amplifier, including its unboxing and an internal view of its components. This can be helpful for understanding the build quality and internal layout.

Your browser does not support the video tag.

Video 1: DS18 G1000.4D Full Range Amplifier Unboxing and Internal Components Overview.

## Operating Instructions

Once the amplifier is properly installed and wired, you can begin adjusting its settings for optimal sound performance.

### Gain Adjustment

The GAIN control matches the output of your head unit to the input sensitivity of the amplifier. Start with the gain at 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. The CLIP indicator light can assist in this process, illuminating when the signal is clipping.

### Crossover Settings

The G1000.4D features adjustable High Pass Filter (HPF) and Low Pass Filter (LPF) for each channel pair (CH1/CH2 and CH3/CH4).

- **HPF (High Pass Filter):** Allows frequencies above the set point to pass through. Use for full-range speakers to prevent low bass frequencies from distorting them.
- **LPF (Low Pass Filter):** Allows frequencies below the set point to pass through. Use for subwoofers to ensure they only reproduce bass frequencies.
- **FULL:** Bypasses the crossover, allowing all frequencies to pass through.

Adjust the crossover frequency according to your speaker types and desired sound. Typical settings for full-range

speakers might be 80-120Hz HPF, while subwoofers would use an LPF in a similar range.

## Maintenance

Your DS18 G1000.4D amplifier requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the amplifier's heatsink fins are free from dust and debris to maintain proper cooling.
- **Connections:** Occasionally check all power, ground, remote, and speaker connections to ensure they are secure and free from corrosion.

## Troubleshooting

If you experience problems with your amplifier, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
No Power / Protection Light On	Blown fuse, improper wiring, short circuit, overheating.	Check inline fuse and amplifier fuses. Verify power, ground, and remote connections. Check speaker wires for shorts. Ensure adequate ventilation.
No Sound Output	No input signal, incorrect gain setting, speaker wiring error, head unit issue.	Verify RCA or high-level input connections. Adjust gain. Check speaker wiring for correct polarity and secure connections. Test head unit with another amplifier if possible.
Distorted Sound	Gain set too high, improper crossover settings, speaker impedance mismatch, poor quality input signal.	Reduce gain. Adjust crossover settings. Ensure speaker impedance matches amplifier's capabilities. Check input signal quality.
Engine Noise / Whining	Poor grounding, RCA cables too close to power wires, faulty RCA cables, ground loop.	Improve ground connection. Reroute RCA cables away from power wires. Try different RCA cables. Install a ground loop isolator if necessary.

## 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. Keep your purchase receipt as proof of purchase.

For technical support or service inquiries, please contact DS18 customer service through their official website or authorized dealers.

*Note: Unauthorized repairs or modifications will void the product warranty.*

