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› [DS18 G1800.4D 4-Channel Class D Car Audio Amplifier User Manual](#)

DS18 G1800.4D

DS18 G1800.4D 4-Channel Class D Car Audio Amplifier User Manual

Model: G1800.4D

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your DS18 G1800.4D 4-Channel Class D Car Audio Amplifier. This amplifier is designed to deliver powerful and clear audio performance for your vehicle's sound system. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Figure 1: DS18 G1800.4D Amplifier, top view.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's battery negative terminal before starting any electrical work.
- Ensure all wiring is properly insulated to prevent short circuits.
- Mount the amplifier securely in a dry, well-ventilated location, away from heat sources and moisture.
- Use appropriate gauge wiring for power, ground, and speaker connections as specified in this manual.
- Do not operate the amplifier if it is damaged or malfunctioning. Refer to the troubleshooting section or contact support.
- Avoid listening to audio at excessively high volumes for prolonged periods to prevent hearing damage.

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. If you are unsure about any part of the installation process, consult a professional car audio installer.

3.1 Unpacking

Carefully remove the amplifier from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping.

Included in the box: Amplifier.

3.2 Mounting Location

Choose a mounting location that is dry, well-ventilated, and secure. Ensure there is sufficient airflow around the amplifier's heatsink to prevent overheating. Avoid mounting in direct sunlight or areas prone to excessive vibration.

3.3 Wiring Connections

Refer to the diagrams below for proper wiring connections.



Figure 2: Input panel of the DS18 G1800.4D amplifier, showing gain controls, crossover switches (HPF, LPF, F), and RCA inputs for

channels 1-4.

- **RCA Inputs (CH1, CH2, CH3, CH4):** Connect your head unit's RCA outputs to these inputs.
- **Gain Controls:** Adjust the input sensitivity for each channel pair (CH1/CH2 and CH3/CH4) to match the output of your head unit. Start with the gain at minimum.
- **Crossover Switches (HPF, LPF, F):** Select High-Pass Filter (HPF), Low-Pass Filter (LPF), or Full Range (F) for each channel pair.
- **Crossover Frequency Knobs:** Adjust the cutoff frequency for the selected filter.



Figure 3: Power input and speaker output panel of the DS18 G1800.4D amplifier, showing terminals for GND, REM, +12V, and speaker outputs.

- **GND (Ground):** Connect to a clean, bare metal chassis ground point in the vehicle. Use a wire of the same gauge as the +12V power wire.
- **REM (Remote Turn-On):** Connect to the remote output of your head unit. This wire turns the amplifier on and off with the head unit.
- **+12V (Power):** Connect directly to the positive terminal of the vehicle's battery. Install an appropriate fuse (not included)

within 18 inches of the battery.

- **Speaker Output (CH1+, CH1-, CH2+, CH2-, CH3+, CH3-, CH4+, CH4-):** Connect your speakers to these terminals, observing correct polarity.

Important: Ensure all connections are tight and secure to prevent intermittent operation or damage.

4. OPERATING INSTRUCTIONS

Once the amplifier is installed and wired correctly, follow these steps to configure and operate your system.

4.1 Initial Power-Up

1. Double-check all wiring connections.
2. Ensure the amplifier's gain controls are set to minimum.
3. Reconnect the vehicle's battery negative terminal.
4. Turn on your head unit. The amplifier should power on, indicated by the power LED.

4.2 Gain Adjustment

The gain control matches the amplifier's input sensitivity to the output of your head unit. It is not a volume control.

1. Set your head unit's volume to about 75% of its maximum.
2. Play a dynamic piece of music.
3. Slowly increase the amplifier's gain control until you hear distortion, then back it off slightly until the sound is clear.
4. Repeat for all active channels.

4.3 Crossover Settings

The crossover filters allow you to direct specific frequency ranges to your speakers, optimizing sound quality and protecting speakers.

- **HPF (High-Pass Filter):** Allows frequencies above the set point to pass. Typically used for full-range speakers or tweeters to prevent low bass from damaging them.
- **LPF (Low-Pass Filter):** Allows frequencies below the set point to pass. Typically used for subwoofers.
- **F (Full Range):** Allows all frequencies to pass. Use if your head unit handles crossovers or for speakers designed to play a wide frequency range.

CLASS D STEREO 4 CHANNEL AMPLIFIER



Total Watts
(Peak): 1800W



Minimum
Impedance: 2 Ohm



Frequency:
20Hz - 20KHz

DS18®

G1800.4D

Figure 4: DS18 G1800.4D amplifier highlighting Class D stereo 4-channel design and key performance metrics like 1800W peak power, 2 Ohm minimum impedance, and 20Hz-20KHz frequency response.

INTEGRATED LOW-PASS FILTER AND BASS BOOST



NEW COMPACT DESIGN AND TECHNOLOGY THAT
WILL KEEP YOUR AMP PLAYING COOL AND LOUD.



Efficiency @
4 Ohms: 81%



Signal to Noise
Ratio: > 90dB



Harmonic
Distortion: 0.01%

DS18®

G1800.4D

Figure 5: DS18 G1800.4D amplifier emphasizing integrated low-pass filter and bass boost features, along with efficiency, signal-to-noise ratio, and harmonic distortion specifications.

5. MAINTENANCE

The DS18 G1800.4D amplifier requires minimal maintenance.

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

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Power / Amplifier does not turn on	Blown fuse Poor power or ground connection No remote turn-on signal	Check and replace fuse (if blown). Verify +12V, GND, and REM connections. Ensure head unit remote output is active.
No Sound Output	RCA cables disconnected or faulty Speaker wires disconnected or shorted Gain set too low Head unit output issues	Check RCA connections and cables. Verify speaker wiring and polarity. Increase gain slowly. Test head unit with another amplifier or speakers.
Distorted Sound	Gain set too high Improper crossover settings Speaker impedance mismatch	Reduce gain until distortion disappears. Adjust HPF/LPF settings. Ensure speakers meet amplifier's impedance requirements.
Amplifier Overheating	Insufficient ventilation Improper impedance load Prolonged high volume operation	Relocate amplifier or improve airflow. Check speaker impedance. Reduce volume or allow amplifier to cool.

7. SPECIFICATIONS

Feature	Detail
Model Number	G1800.4D
Brand	DS18
Product Dimensions (L x W x H)	10.5 x 5 x 2 inches
Item Weight	3.51 Pounds
Voltage	12 Volts
Mounting Type	Surface Mount
Channels	4 Channel
Amplifier Class	Class D
Total Watts (Peak)	1800W
Minimum Impedance	2 Ohm
Frequency Response	20Hz - 20KHz
Efficiency @ 4 Ohms	81%
Signal to Noise Ratio	> 90dB
Harmonic Distortion	0.01%

8. WARRANTY & SUPPORT

For specific warranty information, please refer to the warranty card included with your product or visit the official DS18 website. If you encounter any issues or have questions regarding your DS18 G1800.4D amplifier, please contact DS18 customer support.

- **Online Support:** Visit the DS18 official website for FAQs, support resources, and contact information.
- **Technical Assistance:** Have your model number and purchase details ready when contacting support.

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Related Documents - G1800.4D

	<p>DS18 GEN-X Series Class D Car Audio Amplifiers Owner's Manual</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>DS18 CANDY-X Series Digital Amplifiers Owner's Manual</p> <p>Comprehensive owner's manual for DS18 CANDY-X series digital monoblock and multi-channel car amplifiers. Includes installation, operation, specifications, and troubleshooting guides.</p>
	<p>DS18 CANDY-6 6-Channel Full Range Class D Amplifier Owner's Manual & Installation Guide</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>DS18 HOOLIGAN KO Series Car Amplifiers: Owner's Manual, Features, and Specifications</p> <p>Comprehensive owner's manual for the DS18 HOOLIGAN KO series of Competition Class D car amplifiers. Includes installation guides, control explanations, technical specifications, and troubleshooting tips for models H-KO2, H-KO3, H-KO5, H-KO8, H-KO10, and H-KO340. Features include high-quality audio reproduction, variable crossovers, and robust protection circuits.</p>

	<p>DS18 CANDY-X Series Class D Amplifiers Owner's Manual</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>DS18 GEN-X1800.1D Class D Monoblock Amplifier Owner's Manual</p> <p>This manual provides instructions for the functions, controls, electrical connections, system wiring, specifications, and troubleshooting for the DS18 GEN-X1800.1D Class D Monoblock Amplifier.</p>

Documents - DS18 – G1800.4D



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[DS18 GEN-X Series Amplifier Owner's Manual](#)

Comprehensive owner's manual for DS18 GEN-X series amplifiers (G1800.1D, G1800.4D, G3600.1D, G3600.4D), covering installation, controls, adjustments, features, specifications, and troubleshooting.

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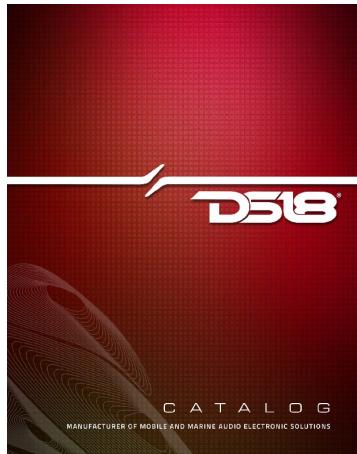
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