



DS18 GFX-1.4K1 Pro Full Range Class D 1 Channel Monoblock Amplifier Owner's Manual

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DS18 GFX-1.4K1 Pro Full Range Class D 1 Channel Monoblock Amplifier



DS18 GFX-AMPS

Thank you for choosing OS 18!

To Take full advantage of the DS18 GFX amps you have just purchased, please read and follow the instructions in this manual. As with all of our products, professional installation by any of our authorized DS18 GFX amps dealer is highly recommended!

INTRODUCTION

The DS18 GFX Car amplifiers offer high quality audio reproduction for the audiophile and the everyday listener alike. All models feature fully variable crossovers with 12dB per octave slopes, allowing you the ability to tailor the sound to best fit the speakers and your listening preferences.

PLATINUM FINISH CONNECTIONS

Ensures solid electrical connections that resist corrosion.

FULLY VARIABLE CROSSOVERS

Fully variable crossovers promote installation ease and save the cost of outboard crossovers. Additionally, they may be used in conjunction with outboard passive or active crossovers, depending on the complexity required by the system. The 12 dB per octave slope offers steep roll-off above or below the selected frequency.

PROTECTION CIRCUITRY

Against Overload, Short Circuit, Thermal, and Reverse Polarity. These protection features are designed to protect the amplifier from misuse, as well as from common causes of amplifier failure.

FEATURES

- Digital Full Range Monoblock Amplifier.
- Specially designed for Mid-bass, Midrange or Driver speakers.

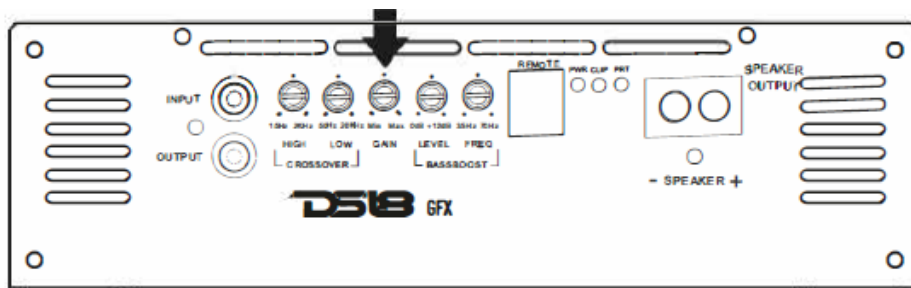
- Extremely high output with a small footprint.
- 0.5 / 1 / 2 ohm Minimum Impedance Available models.
- Power/ Protection / Clip LED indicator.
- Full Adjustable HP/LP@ 12dB/oct Crossover.
- Bass boost with adjustable frequency.
- Level Knob Remote Control for dash- board included.
- Forced cooling available in some models.
- Multiple ways of electronic protection (thermal, Over-Load, Short Circuit, impedance, Voltage, Clipping)

WARNING

Before securing the amplifier, inspect the mounting location carefully to ensure that you do not drill into or damage any electrical, hydraulic, fluid or fuel lines.

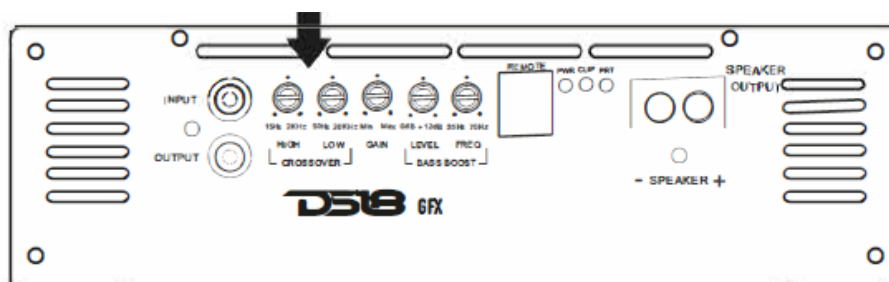
INPUT SECTION

Because of the wide range of head unit output configurations all DS18 GFX amps have an adjustable input sensitivity of "Gain". The gain is not a volume or a power limiting control like a throttle. It makes the amp more sensitive to input from the stereo; with the gain up, the amp will reach full output at a lower volume setting on the deck. At higher gain settings the amp also becomes more and more sensitive to noise from the car's electrical system. Try to run the gain at the lowest setting possible for your system. There is no correct gain setting, because speakers require different power demands to reach the same output, the gains most often need to be used to compensate for these differences. If you tried to set all the gains at half way you would probably find the system didn't sound very good. Using good judgment and listening carefully to each speaker is still the best way to tune a system.



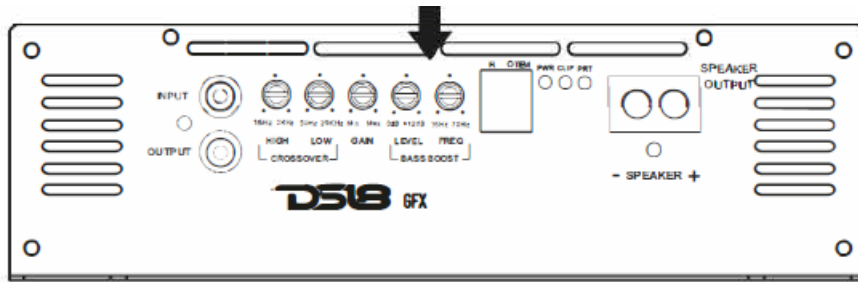
CROSSOVER CONTROLL

A crossover is a device that removes unwanted frequencies from a speaker or amplifier. A tweeter can easily be destroyed by bass notes if they are not filtered out. Likewise a subwoofer will not sound natural if it is playing midrange notes. A crossover removes these sounds from the speaker, As you might guess, careful adjustment in need to ensure that all the speakers are playing the right sounds and that you are left with no "holes" or low spots in the frequency response.



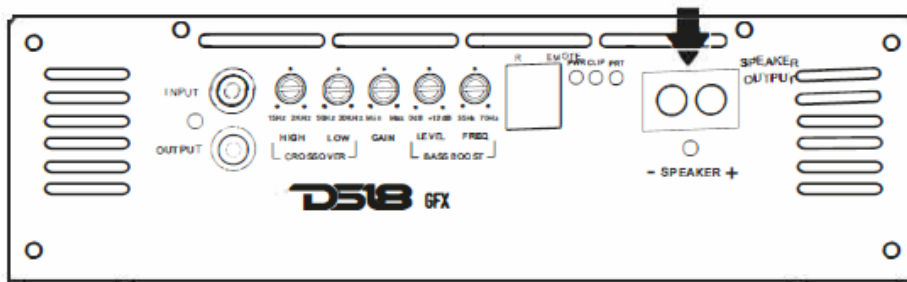
BASS BOOST

D518 GFX amps amplifiers have an adjustable bass boost. Begin your adjustments at low volume. If you do not hear any improvement then woofer does not need any bass boost. Use Bass Boost carefully. The demands on power output are tremendous. Try to minimize the use by changing woofer position or the enclosure size.



SPEAKER OUTPUT

This amplifier is equipped with a large block style terminal for speaker connection. Make this connection carefully and neatly. Strip your wire back and twist the exposed leads and insert them into the block terminal while being careful that there is no loose or frayed strands of wire and tighten the Allen head screw down on the terminal till the wire is tightly secured in place. If the wires ever come in contact with each other the amplifier will go into protection.



INSTALLTION INSTRUCTION

1. Before you start, disconnect the negative cable from the car battery. Tape up the end so it is isolated from the battery.
2. Run an appropriate gauge wire from the battery to the amplifier. Plan this part of the installation carefully. This cable will carry very high current, if it should short to the body and it is not properly fused it could catch fire.
3. Connect the power wire to the battery using a fuse capable of the total current load of all amplifiers connected. Don't install the fuse yet. Wait until the end. Locate the fuse as close as possible to the battery. If the fuse is further than 18 inches (wire length) from the battery you should reevaluate the wire and fuse placement.
4. Find the closest clear metal area to the amp for a ground. Sand, grind or scrape all paint and undercoating from the body and screw the ground securely in place.

Professional installation by an authorized OS 18 dealer is highly recommended, Otherwise, the performance of your new gear may not be satisfactory. In the event that you decide to do your own installation, please read and follow this manual very carefully. Failure to do so may compromise the integrity of this product, your automobile, and possibly void the product warranty. Amplifiers are generally mounted in the hatch/ trunk area of a car or SUV, and under or behind the seat of most pick-up trucks. Select a location that will provide adequate ventilation for the amplifier. Avoid mounting the amplifier with the fins down. The fins should be facing up either vertically or horizontally. Secure the amplifier with the screws provided. Before securing the amplifier, inspect the mounting location carefully to ensure that you do not drill into or damage any electrical, hydraulic,

fluid or fuel lines.

5. Run the speaker wire to the speakers. It is advised that you leave some extra wire at this point. You can fix it later.
6. If you haven't done so already, mount the amp now.
7. Connect the power and ground to the amplifier.

ONLY AFTER THIS STEP – SHOULD YOU INSTALL THE FUSE AT THE BATTERY.

8. Connect the remote wire from the head unit to the amplifier. Now is a good time to turn on the amp for the first time. Make sure it turns on properly and does not go into protection mode.
9. Connect the speaker wires to the amp and speakers (make sure the amp is off first). Make sure the polarity(+) and(-) is correct.
10. Connect the RCA's to the amp.
11. Double check the amplifier controls at this time. Make sure everything is set correctly for your system.
12. Now you're ready to play it for the first time. It is best to leave the gain all the way down at first. Start with the head unit volume low and work your way up.
13. Now you can tune the amp. Take your time and make only one adjustment at a time. It may take some time to get the system fully adjusted. During this time the amp is drawing current from the battery. You should check the battery voltage from time to time and recharge it, if it gets low. That's it. You're done. Now have fun!

SPECIFICATION

MODEL/ MODELO	GFX-1.4k1	GFX-2.2k1	GFX-3k1		GFX-3k2	GFX-Sk.S
Power@8ohms (14.4 V)	N/A	N/A	N/A	1000W		N/A
<i>Potencia @8 ohms (14 .41/)</i>						
Power@4 ohms (14.4 V)						
<i>Potencia @4 ohms (14 .41/)</i>						
Power@2 ohms (14.4 V)						
<i>Potencia@ 2 ohms (14 .41/)</i>						
Power@ 1 ohms (14.4 V)						
	550W					

<i>Potencia@ 1 ohms (14 .41/)</i>		800W	1000W	2000W	N/A
Power@0.5ohms (14. 4V)	950W	1500W	2000W	3000W	
Potencia@0.5ohms (14.4V)	1400W	2200W	3000W	N/A	2000W
	N/A				3500W
Frequency Response		N/A	N/A	—	
<i>Respuesta de Frecuen cia</i>	15Hz-20KHZ	15Hz-20KHZ	15Hz-20KHZ	N/A	5000W
Total Harmonic Disto rtion(THD)	1%			15Hz-20KHZ	15Hz-20KHZ
<i>Distorsi6n arm6nica total(THD)</i>		1%	1%		1%
	0.5 -BV	0.5 -BV	0.5 -BV	1%	
Low level Input Rang e				0.5 -BV	0.5 -BV
<i>Rongo deEntrada de B ajoNivel</i>	15Hz-2KHZ	15Hz-2KHZ	15Hz-2KHZ		15Hz-2KHZ
HiPass X–Over Filter Range	50Hz-20KHZ			15Hz-2KHZ	
<i>Paso Altodef Filtro de Crossover</i>		50Hz-20KHZ	50Hz-20KHZ		50Hz- 20KH2
Low Pass X–Over Filt er Range	0-12dB			50Hz-20KHZ	
<i>PasoBajadef Filtrode C rossover</i>		0-12dB	2-12dB		4-12dB
	35Hz-70HZ			3-12dB	
Bass Boost Range		35Hz-70HZ	35Hz-70HZ		
<i>Rongodef Refuerzo de Graves</i>	140A			35Hz-70HZ	35Hz-70HZ
		220A	300A		

BassBoost Frequency	1 OHM	1 OHM	1 OHM		300A	500A
<i>Frecuenciade Refuerzo de Graves</i>		2AWG	1/0AWG		20HM	0.50HM
Recommended Fuse					1/0AWG	1/0AWG
<i>Tipode Fusible Recomendado</i>						
Minimum Impedance						
<i>ImpedanciaM</i>						
Power Input Terminal Size	2AWG					
<i>Calibre def Cable deEntrada</i>						

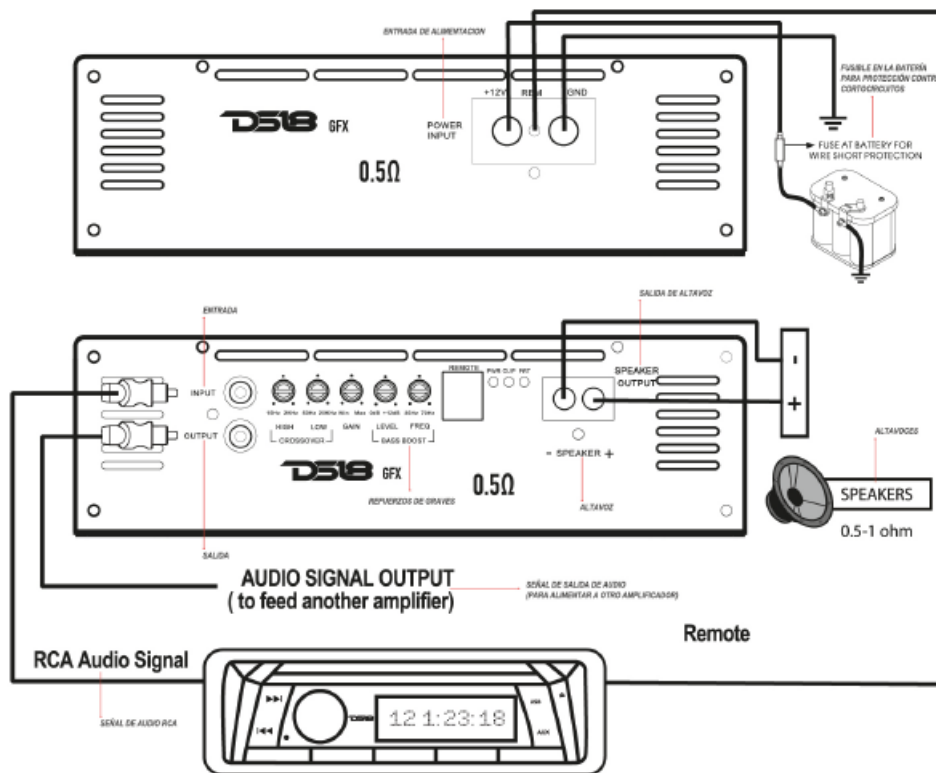
MODEL/ MODELO	GFX-Sk1		GFX-Sk2	GFX-Sk.S	GFX-8k1	GFX-8k2
Power@Bohms (14.4 V)						
<i>Potencia@Bohms (14.4V)</i>						
Power@4ohms (14.4V)						

Potencia@ 4 ohms I14.4V)						
Power@2 ohms (14.4 V)						
Potencia@ 2 ohms I14.4V)						
Power@1 ohms (14.4 V)						
Potencia @ 1 ohms I14.4V)						
Power@0.5ohms (14.4V)	N/A					
Potencia@0.5ohms (14.4V)	2000W	2000W	N/A		3500W	
Frequency Response	3500W	3500W	—	N/A	5000W	
Respuesta de Frecuencia	5000W	5000W	N/A	3500W	8000W	
Total Harmonic Distortion(THD)	N/A	N/A	3500W	5000W	N/A	
	15Hz-20KHZ	—	5000W	8000W	—	
			8000W	N/A		

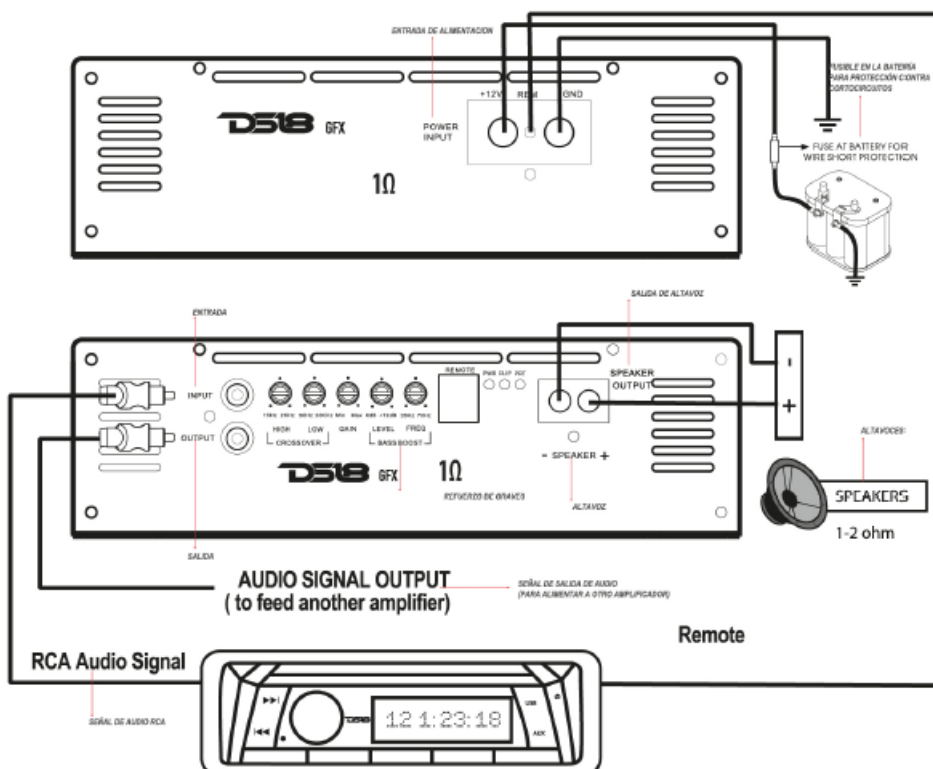
<i>Distorsi6n arm6nica total/THO)</i>	1%		N/A	15Hz-20KHZ	15Hz-20KHZ	N/A
			15Hz-20KHZ			15Hz-20KHZ
Low level Input Rang e	0.5 -BV		1%	1%	1%	1%
	15Hz-2KHZ			0.5 -BV	0.5 -BV	
<i>Rongo de Entradade B ajaNivel</i>			0.5 -BV			0.5 -BV
				15Hz-2KHZ	15Hz-2KHZ	
Hi Pass X–Dver Filter Range	50Hz-20KHZ		15Hz-2KHZ			15Hz-2KHZ
				50Hz-20KHZ	50Hz-20KHZ	
<i>PasoAlto defiltro de Crossover</i>	5-12dB		50Hz-20KHZ			50Hz-20KHZ
Low Pass X-Over Filt erRange	35Hz-70HZ		6-12dB	7-12dB	8-12dB	9-12dB
<i>PasoBajadef FiltrodeC rossover</i>	500A		35Hz-70HZ	35Hz-70HZ	35Hz-70HZ	35Hz-70HZ
		—				
Bass Boost Range	1 OHM		500A	800A	800A , 1 HM	800A
				0.50HM		
<i>RongodefRefuerzo de Groves</i>			20HM		1/0AWG	20HM
				1/0AWG		
			1/0AWG			1/0AWG

Bass Boost Frequency						
<i>Frecuencia de Refuerzo de Graves</i>						
Recommended Fuse						
<i>Tipode Fusible Recomendado</i>						
Minimum Impedance						
<i>ImpedanciaM</i>						
<div>—</div> Power Input Terminal Size	1/0AWG					
<i>Calibre de Cable de Entrada</i>						

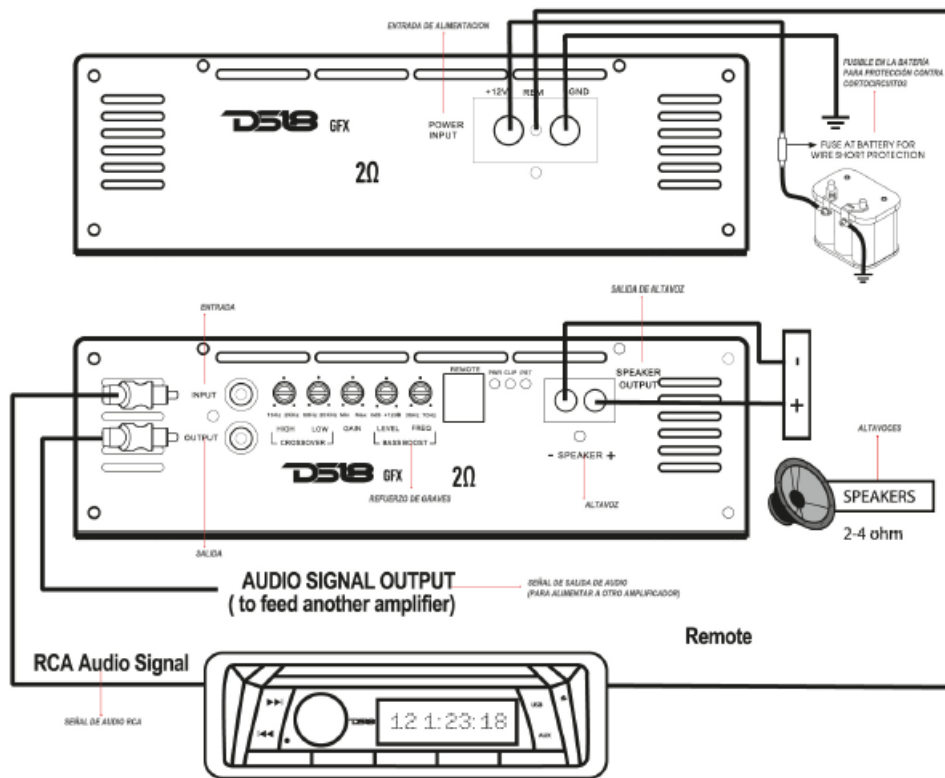
INSTALLATION



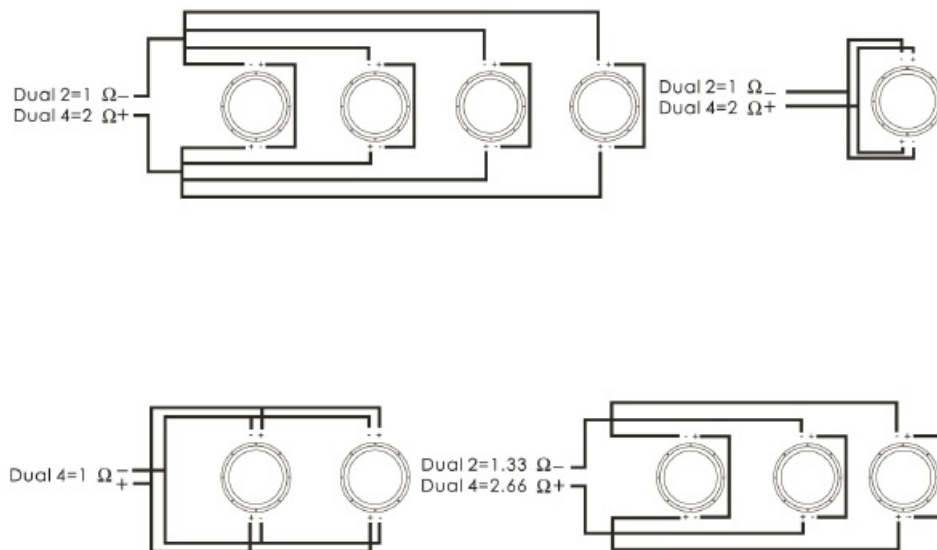
GFX-1.4k1 • GFX-2.2k1 • GFX-3k1 • GFX-5k1 • GFX-8k1

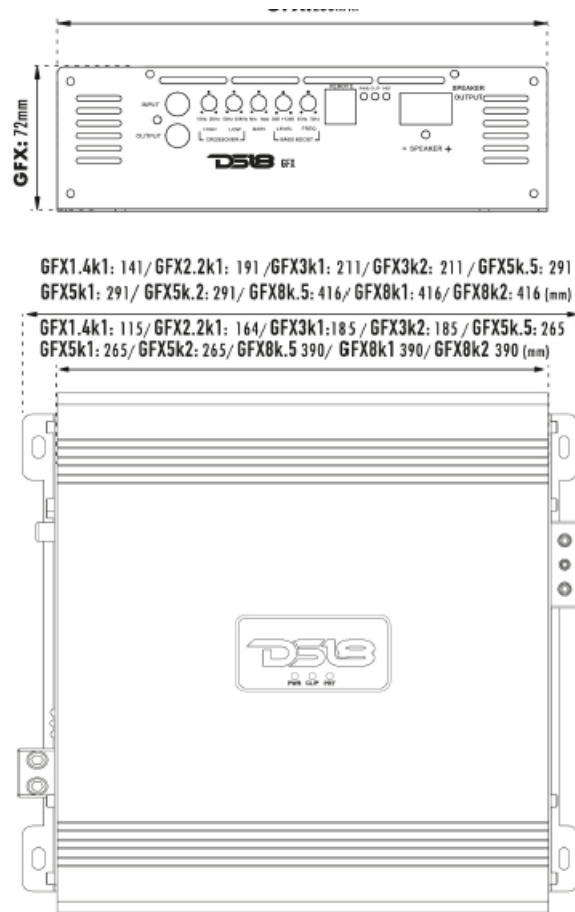


GFX-3k2 GFX-5k2 GFX-8k2



Wiring configuration information





WARRANTY

Please visit our website D518.com for more information on our warranty policy. We reserve the right to change products and specifications at any time without notice. Images may or may not include optional equipment.

Documents / Resources



[DS18 GFX-1.4K1 Pro Full Range Class D 1 Channel Monoblock Amplifier](#) [pdf] Owner's Manual
 GFX-1.4k1, GFX-2.2k1, GFX-3k1, GFX-5k.5, GFX-5k1, GFX-5k2, GFX-8k.5, GFX-8k1, GFX-8k2
 , Pro Full Range Class D 1 Channel Monoblock Amplifier, GFX-1.4K1 Pro Full Range Class D 1
 Channel Monoblock Amplifier