

GAS *PSM64/68*

If you want to take your SPL system to the next level the GAS PRO PSM64/68 is the perfect choice! Available in 4 Ohm or 8 Ohm this SPL midrange woofer packs a punch. The GAS development team have incorporated a copper shorting ring that greatly reduces distortion, even when you are pushing the limit of the speakers. The PSM64/68 has a steel basket, a paper cone with a double roll cloth suspension, a ferrite magnet and heavy-duty push terminals. If you combine the PSM64/68 with any of the GAS PRO SPL tweeters you will cover most frequencies, and if you want to be loudest you can use the GAS PRO SPL PSP2500.2DF amplifier and connect 64 (!) 8 Ohm PSM speakers!



- 6,5" Midrange
- 70W RMS / 140W MAX
- Frequency range 100-12000Hz
- Steel frame
- Paper cone
- 1" voice coil, 4 Ohm (PSM64) or 8 Ohm (PSM68)
- 92 dB sensitivity
- Sold in pair!
- Copper shorting ring

Technical Specifications:

Component: Midrange woofer

Size: 6,5" 165mm

Power Handling (RMS): 70W

Power Handling (MAX): 140W

Impedance: 4 Ohm (64) 8 Ohm (68)

Frequency response: 100-12 000Hz

Sensitivity: 92dB 1W/1m

Mounting Depth: 73mm

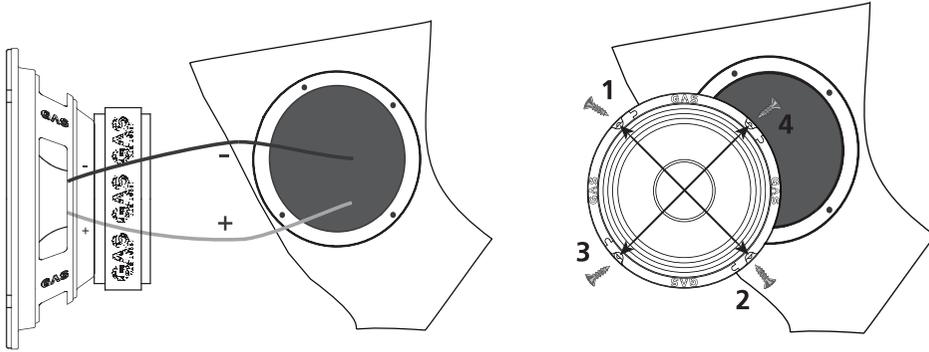
Mounting Hole Diameter: 143mm



Electro-Acoustic Parameters - Voice Coils in Series

Fs	128,91	Hz
Qts	0.9	
Vas	4.3	

INSTALLATION



SPECIFICATIONS

Model	PRO SPL PSM64	PRO SPL PSM68	PRO SPL PSM84	PRO SPL PSM88
Size (inch)	6.5 inch	6.5 inch	8 inch	8 inch
Surround material	Cloth	Cloth	Cloth	Cloth
Cone material	Pressed paper	Pressed paper	Pressed paper	Pressed paper
Frame material	Steel	Steel	Steel	Steel
Voice coil size (inch)	1 inch	1 inch	1.5 inch	1.5 inch
Power RMS (Watt)	70W	70W	80W	80W
Music Power (Watt)	140W	140W	160W	160W
Freq. response (Hz)	95 - 12 000Hz	95 - 12 000Hz	90 - 10 000Hz	90 - 10 000Hz
Impedance (Ohm)	4 Ohm	8 Ohm	4 Ohm	8 Ohm
SPL (db)	94 dB	94 dB	96 dB	95 dB

This specified sensitivity is not directly connected with the sound pressure in the vehicle, and therefore should not be used as the sole indicator for comparison with other speakers

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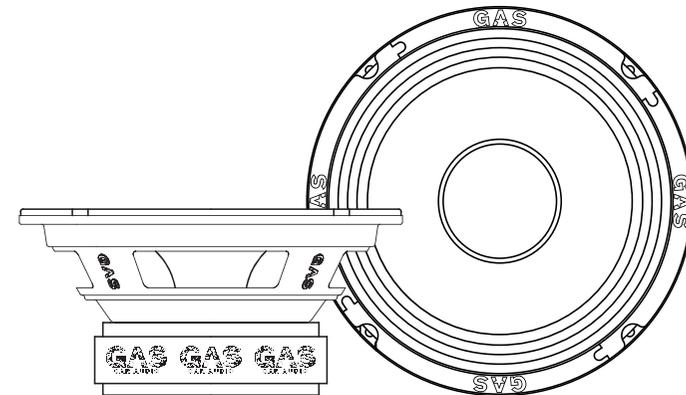


Owners Manual

GAS
CAR AUDIO

PRO SPL

MIDRANGE DRIVER



MODEL: PSM64
PSM68
PSM84
PSM88

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1. INTRODUCTION

Thank you for purchasing this GAS car audio product! We at GAS are committed to create great products for you by following our simple, yet powerful, premise: **Offer more, charge less!**

To ensure proper use of your purchased product, please carefully read through this manual before using the product. It is especially important that you read and observe caution's in this manual. Please keep the manual in a safe and accessible place for future reference.

2. SAFETY INSTRUCTIONS

1. Fasten the speakers properly when installing them in the vehicle. If the components is disconnected during driving, it may cause serious damage to the passengers of the vehicle or another vehicle
2. Before installing the components, if possible store the speakers in the original package to avoid accidental damage to the product.
3. Be careful when installing and dismantling the speakers! Do not let the speaker drop to avoid damage of its moving parts.
4. When working with tools follow the safety rules.
5. Before the installation, switch off the head unit and all other audio devices to avoid their damage.
6. Make sure that the location of the speaker does not hinder the proper operation of mechanical and electrical devices of the vehicle.
7. Do not install components in places exposed to water, excessive humidity, high or low temperatures, dust or dirt. **ATTENTION!!** The speakers may be operated from +5 °C. In case of moisture condensation, let the speakers dry.
8. When performing drilling or cutting works with the car, make sure that there is no wiring, brake lines, fuel pipe or other structural elements under the place of work. **Follow the safety rules! Use protective glasses and gloves.**
9. When stretching back the speaker cables, make sure that they are not in contact with sharp edges or moving mechanical devices. Make sure that they are firmly fixed and protected over the entire length.
10. The diameter of the speaker cables must be selected in accordance with the length and applied power.
11. Never stretch the cables outside of the car and near the moving parts of the car. This can lead to destruction of the insulating layer, short circuit and fire.
12. To protect the cables use rubber gaskets if the wire passes through a hole in the metal or if it lies close to the parts exposed to heat.

**CAUTION!! High sound pressure can damage your health!
Please use the common sense when controlling volume!**

3. WARRANTY AND MAINTENANCE INFO

This product is covered by warranty, depending on the conditions in the country where it is sold. If the speaker is returned for service, please include the original dated receipt (or a copy) with the product.

4. INFORMATION ON DISPOSAL OF THE ELECTRICAL & ELECTRONIC EQUIPMENT

Items marked with the "Crisscrossed wheeled bin" are not allowed to be disposed of together with usual household waste. These electrical and electronic products should be disposed of in special reception centers, equipped for recycling such products and components. For information about the location of your nearest disposal/recycling spot and the rules of delivery of waste, please contact your local municipal office. Recycling and proper disposal helps to protect the environment and prevent harmful effects on health.

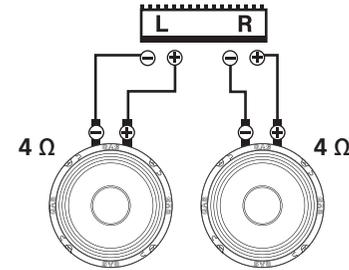


Manufacturer: GAS car audio
Designed & Engineered in Sweden

3. WIRING DIAGRAMS

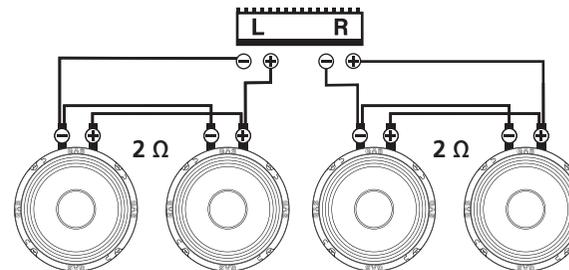
Do not expose your amplifier to loads below the value predetermined by the manufacturer. Various examples of connection types are given at the following page. Use the examples to determine the required load impedance of your connection.

Standard connection of the speakers



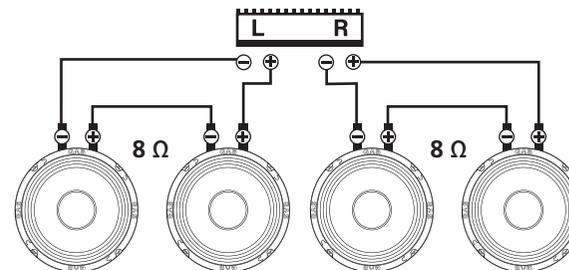
Voice coil	Total impedance
4 Ohm x 2 MR	4 Ohm / Channel
8 Ohm x 2 MR	8 Ohm / Channel

Parallel connection of the speakers



Voice coil	Total impedance
4 Ohm x 4 MR	2 Ohm / Channel
8 Ohm x 2 MR	4 Ohm / Channel

Serial connection of the speakers



Voice coil	Total impedance
4 Ohm x 4 MR	8 Ohm / Channel
8 Ohm x 4 MR	16 Ohm / Channel

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