

# Owners Manual

## RECOMMENDED ENCLOSURES

Enclosure type	Volume	Qty	F3	Port/Fb
Sealed Small	12L incl. Subwoofer, medium fill	0,89	55 Hz	-
Sealed	19L incl. Subwoofer, medium fill	0,707	52 Hz	-
Vented/Ported	39L incl. Subwoofer/port, min fill	-	34 Hz	4" port Length 40 cm/57 Hz

## TECHNICAL SPECIFICATIONS

Speaker Type: Subwoofer

Size: 10"

Power Handling (RMS): 400W

Power Handling (MAX): 1200W

Impedance: 4 Ohm

Sensitivity: 84,4dB 1W/1m

Outer Diameter: 275 mm

Mounting Depth: 86 mm

Mounting Hole Diameter: 242 mm

Magnet Diameter: 156 mm

Weight: 4,8 kg

Usable Freq. Response: 30-1000 Hz

## ELECTRO-ACOUSTIC PARAMETERS - VOICE COILS IN SERIES

Xmax (1-way)	9,0	mm
Fs	32,8	hz
Re	3,2	ohm
Qms	9,99	
Qes	0,52	
Qts	0,5	
Cms	0,18	mm/N
Mms	132,3	g
Bl	10,2	
dBspl	84,4	
VAS	27,4	L
Sd	346,2	cm <sup>2</sup>

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

## 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.



# GAS

CAR AUDIO

Silver

MODEL: SW2504S

[www.gascaraudio.com](http://www.gascaraudio.com)

## 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 cautions in this manual. Please keep the manual in a safe and accessible place for future reference.

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

## 2. 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.

## 3. ENCLOSURE INFORMATION

GAS Car Audio recommends that you should choose the enclosure you will use based on the type of music you listen to, how much amplifier power you will use for the subwoofer and how much space inside the vehicle you can devote to a subwoofer enclosure.

Sealed enclosures provides the most control over the woofer's movement, a woofer mounted in a sealed enclosure will handle more power than a woofer mounted in another enclosure type. Sealed enclosures provide more accurate sonic reproduction than other enclosure types when mounted inside a vehicle, so they are well suited to all types of music. Sealed enclosure construction is straight forward and are easy to build. An optimum sealed enclosure is always smaller than other types of enclosures optimized for a particular speaker, so they require the smallest amount of space inside the vehicle.

Vented enclosures provide normally a better efficiency in the 40Hz - 50Hz range, but this efficiency comes at the expense of sound in the lowest octave (normally below 40Hz), and at the expense of some control and power handling at the lowest frequencies (below the ports tuning frequency). If you are using a small amplifier a vented box will provide more perceived bass output from less power. Vented enclosures are also well suited to a variety of music types. Vented enclosures requires more of the builder and the volume and port must be built exactly to the specifications. An optimum vented enclosure is always larger than the optimum sealed box for the same woofer and will require more space inside the vehicle.

Good luck with your new GAS Car Audio product and enjoy.

## 4. INSTRUCTIONS AND RECOMMENDATIONS

Your GAS Silver SW2504S subwoofer has a 4 ohm voice coil. Be sure to consider the optimum load of your amplifier when designing a subwoofer system. If you will use multiple woofers, be sure to configure them to extract all the power available from your amplifier. When designing a subwoofer system, consider the following:

Do not use different subwoofers or enclosure types in the same system. Subwoofers being used in the same enclosure or powered by the same amplifier should be identical. Mixing subwoofers and enclosures can result in less good system performance.

If you are designing a multiple subwoofer system, be sure to configure the subwoofers so that they each receive the same amount of power from the amplifier. Never connect two identical woofers in series and then connect that pair to another woofer in parallel. If your system will include an odd number of woofers, be sure to connect all the woofers in either series or parallel, according to the rules that follow, in order to maximize the power available from your amplifier.

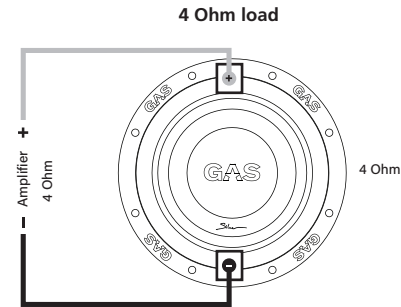
**Attention!** The package includes one subwoofer, to use the parallel or serial connection wiring diagrams shown on the following page, please purchase a second GAS Silver SW2504 subwoofer.

Manufacturer: GAS car audio  
Designed & Engineered in Sweden

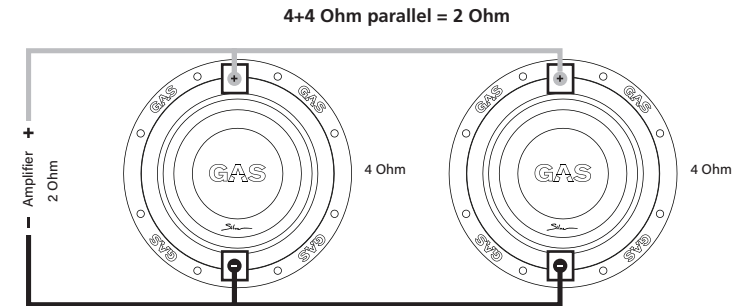
## 5. WIRING DIAGRAMS

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.

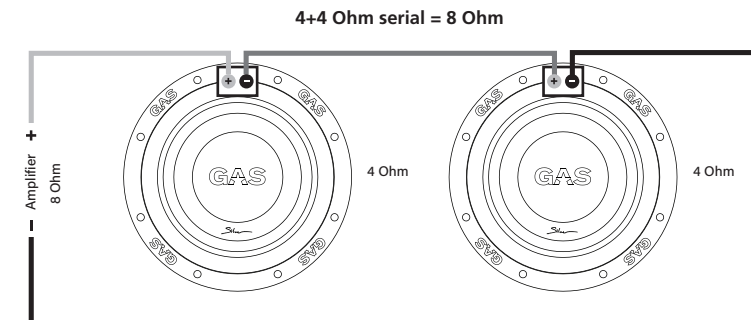
### Single connection



### Parallel connection



### Serial connection



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