



GS series

Outdoor Omnidirectional
In-Ground/Surface-Mount Speaker

Instruction Manual



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Before you begin

A passive outdoor loudspeaker system is one of the best audio entertainment investment you can make for both residential and commercial installations. Investing the time and labor to install a wired speaker system will provide the safest and most dependable sound solution that can be easily upgraded and customized over time.

Before connecting the speakers, please take the time to design and review the overall system, making sure the speakers are well-situated to provide an even coverage with adequate sound level. Depending on the specific model, the speaker may or may not include a wire tail. You will likely need to purchase additional speaker wires to connect the entire sound system. The longer the distance covered, the higher gauge of speaker wires should be used to maximize audio performance.

When selecting and connecting an amplifier to a passive loudspeaker, it is important to understand the relationship and impact of impedance load and power wattage between amplifier and loudspeaker. Caution must be used to ensure impedance load of loudspeaker system is compatible with the selected amplifier's operable range, especially when loudspeakers are wired in parallel, series, or a combination of the two. Incorrect impedance matching may cause irreparable harm to your audio equipment.

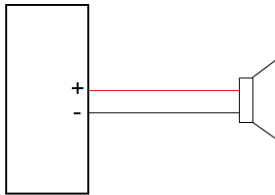
When considering power of your amplifier, most audio professionals and audiophile will recommend an amplifier with an output power above the loudspeaker's power handling rating. This is the ideal set up to maximize audio performance as the extra power will ensure delivery of sufficient power during short periods of audio peaks along with fuller dynamic range and effortless loud volume output. However, the ability to deliver extra power may cause potential damage to the loudspeaker, especially when playing loudly in a sustained period. Caution and restraint must be used to ensure longevity of the loudspeaker under the ideal set up. If longevity and safe operation is more important than optimal audio performance, you should select an amplifier with a RMS power rating at or slightly below the loudspeaker's rating. Please consult a professional installer if you are unsure about impedance and power level matching.

If you need help or have further question, please contact us at www.ticcorp.com.

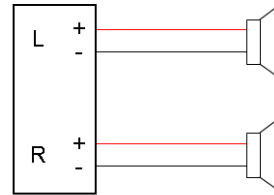
Wiring Diagram

Choose the appropriate wiring option depending on your model and overall system design.

Simple 8Ω installation



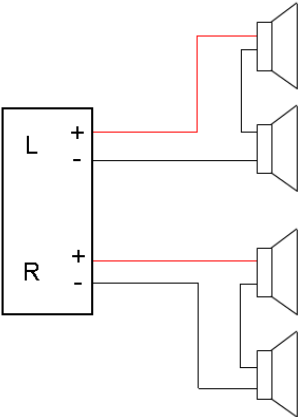
mono or bridged mode



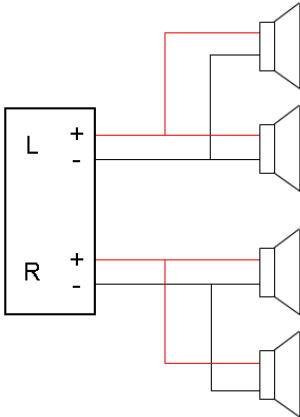
stereo mode

** Colorized version of wiring diagrams and manual is available on our website (www.ticcorp.com). In typical installations, positive terminals are connected to red wires and negative terminals are connected to black wires.*

Four 8Ω speakers 2-channel installation

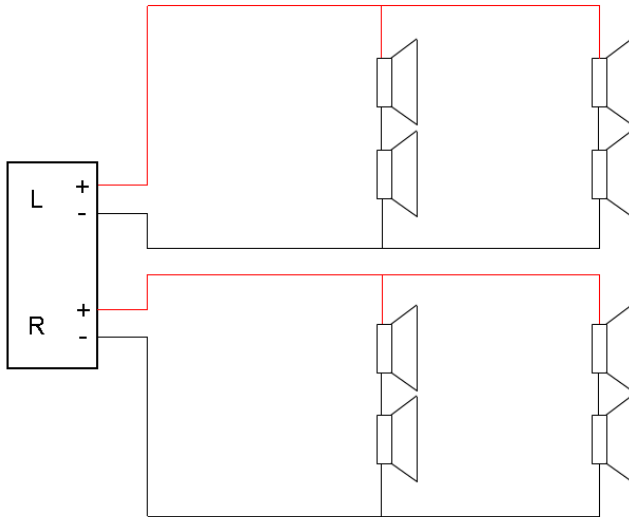


series wiring (16Ω/channel)



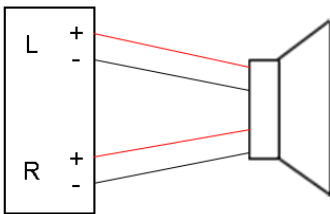
parallel wiring (4Ω/channel)

Eight 8Ω speakers 2-channel installation

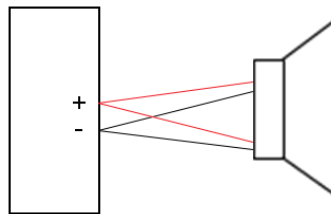


series-parallel wiring (8Ω/channel)

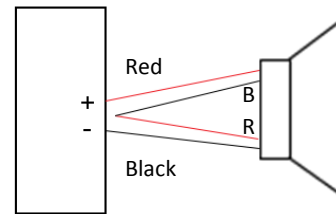
Dual Voice Coil (DVC) installation options



Standard stereo wiring
(8Ω /channel)

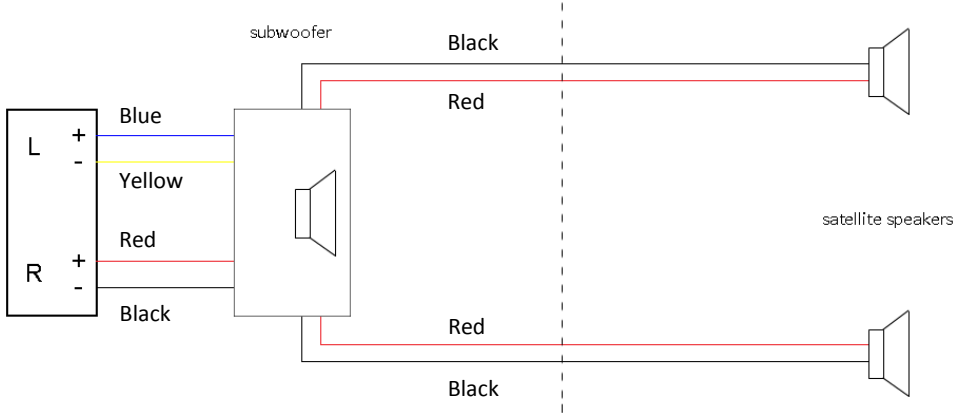


Parallel bridged/mono wiring
(4Ω)



Series bridged/mono wiring
(16Ω)

Subwoofer installation

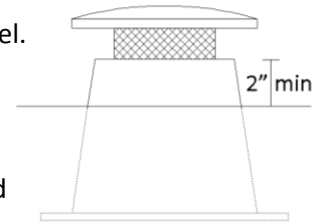


Standard wiring
(8Ω/channel)

Optional satellite wiring
(4Ω/channel)

Installation/Maintenance Note

- The GS speaker can be installed in-ground or surface-mounted. In-ground installation is generally optimal since burying speaker in-ground will enhance its resonance, providing a fuller audio experience. When mounted on a surface, please ensure the wiring is safely secured and does not become a tripping hazard.
- For in-ground installation, only burial-grade insulated speaker wires should be used. Conduit can be used alternatively in conjunction with standard speaker wires. Wire/conduit should be buried 4-6" below ground.
- For connecting/extending speaker wires, we highly recommend using waterproof wire connector (ie. SPC-CN1). Alternately, silicon can be applied to the opening of standard wire nut to provide water protection.
- The GS series is designed to be water-resistant not waterproof. When burying the speaker in-ground, the bottom of the grill should be at least 2 inches above ground level. In addition, speaker should not be installed in a low area prone to water collection or where sprinklers will spray into the grill. During heavy snow season where snow fall level will be higher than the grill, speaker should be covered by a plastic tarp so that melted snow will be diverted away from the speaker driver. The GS speaker is designed to be protected against rain and snow fall but not water submersion.
- System should be fully tested above surface before speakers and wires are buried.
- If sound is muddled or multiple speakers are not in sync, please check to ensure wire polarity is correct.
- To clean speaker, you can rinse with fresh water from directly above the speaker and wipe with a cloth. If needed, use mild detergent to remove dirt. Do not spray water directly into the grill. In addition, the driver can be wiped with a damp cloth and foam ring can be rinsed (or replaced) periodically by removing the top cover.



Specification

	<u>GS3</u>	<u>GS4</u>	<u>GS5</u>	<u>GS50</u>
Type	Single Coaxial	3-Way DVC	Pair of Coaxial	Subwoofer
Driver Size	8" woofer 2" tweeter	8" woofer 2 x 2" tweeters	5" woofers 2" tweeters	8" subwoofer
Power Handling (RMS/Peak)	100W/200W	100W/200W	50W/100W	125W/250W
Impedance	8 Ω	8 Ω /channel 4 Ω (parallel) 16 Ω (series)	8 Ω /speaker	8 Ω (standard) 4 Ω (with satellites)

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Please consult audio professionals if you have any question regarding sound system design and installation.

For more information, please visit our website: www.ticcorp.com.

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