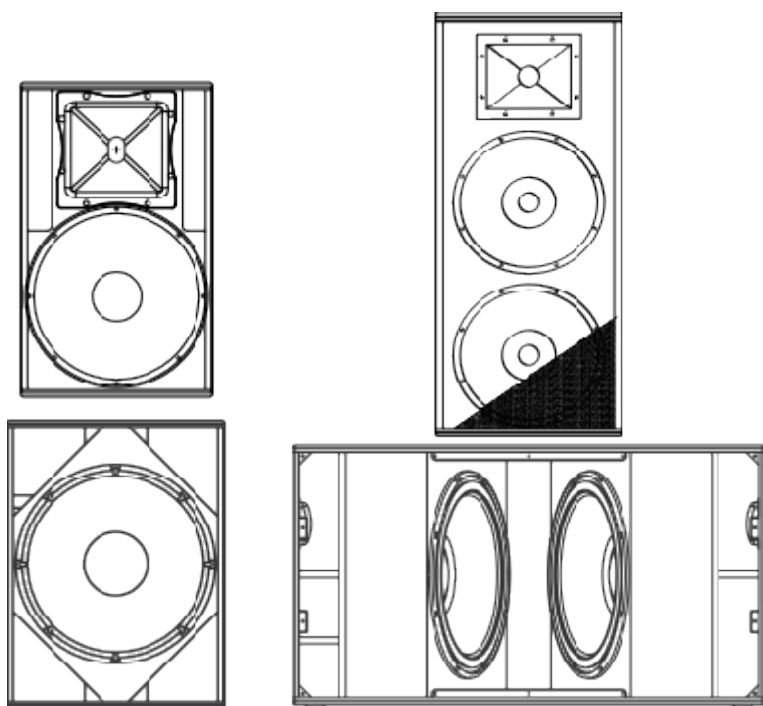


S-Series

Loud Speaker Systems

Powered by

RCF



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1. Safety Precautions

Before connecting and using this product, please read this instruction manual carefully and keep it on hand for future reference. This manual should be considered an integral part of this product and must accompany it when it changes ownership as a reference for correct installation and use as well as for the safety precautions.

All the precautions, in particular the safety ones, must be read with special attention, as they provide important information.

1. Loudspeaker lines (amplifier outputs) can have a sufficiently high voltage (i.e. 100V) to involve a risk of electrocution: never install or connect this loudspeaker when the line is alive.
2. Make sure all connections have been made correctly and the loud speaker input voltage (in a constant voltage system) or its impedance is suitable for the amplifier output.
3. Protect loudspeaker lines from damage; make sure they are positioned in a way that they cannot be stepped on or crushed by objects.
4. Make sure that no objects or liquid can get into this product, as this may cause a short circuit.
5. Never attempt to carry out any operations, modifications or repairs that are not expressly described in this manual. Contact your authorized service centre or qualified personnel should any of the following occur:
 - The loudspeaker does not function (or works in an anomalous way);
 - The cable has been damaged;
 - Objects or liquids have got into the unit;
 - The loud speaker has been damaged due to heavy impacts / fire.
6. Should the loudspeaker emit any strange odours or smoke, remove it from the line after having switched the amplifier off.
7. Do not connect this product to any equipment or accessories not foreseen. For suspended installation, only use the dedicated anchoring points and do not try to hang this loudspeaker by using elements that are unsuitable or not specific for this purpose. Also check the suitability of the support surface to which the product is anchored (wall, ceiling, structure, etc.), & the components used for attachment (screw anchors, screws, brackets not supplied by **Studiomaster Professional** etc.), which must guarantee the security of the system/ installation over time, also considering, for example, the mechanical vibrations normally generated by transducers.
8. **Studiomaster Professional** strongly recommends this product is only installed by professional qualified installers (or specialized firms) who can ensure a correct installation and certify it according to the regulations in force. The entire audio system must comply with the current standards & regulations regarding electrical systems.
9. There are numerous mechanical and electrical factors to be considered when installing a professional audio system (in addition to those which are strictly acoustic such as sound pressure, angles of coverage, frequency response, etc.)
10. **HEARING LOSS**

Exposure to high sound levels can cause permanent hearing loss. The acoustic pressure level that lead to hearing loss is different from person to person & depends on the duration of exposure. To prevent potentially dangerous exposure to high level of acoustic pressure, anyone who is exposed to these levels should use adequate protection devices. When a transducer capable of producing high sound level is being used, it is therefore necessary to wear ear plugs or protective earphones. See the technical specifications in the instruction manual for the maximum sound pressure the loudspeaker is capable of producing.
11. To ensure a correct musical reproduction, loudspeaker phase is to be respected (loudspeakers are connected respecting the amplifier polarity). This is important when loudspeakers are installed adjacent to one another, for instance, in the same room.
12. To prevent inductive effects from causing hum, noise and a bad system working, loudspeaker lines should not be laid together with other electric cables (main), microphone or line level signal cables connected to amplifier inputs.

13. The loudspeaker cable shall have wires with a suitable section (twisted, if possible to reduce inductive effects due to surrounding electro-magnetic fields) and sufficient electrical insulation.



WARNING: Studiomastr Professional will not assume any responsibility for the incorrect installation &/or use of this product.

DISCLAIMER: Studiomastr Professional will not assume any responsibility for Accident/ injury due to incorrect installation especially when flying the speakers.



WARNING: To prevent the risk of fire or electric shock, never expose this loudspeaker to rain or humidity & dust.

2. Warranty Information

Unpacking

As part of our system of quality control, every Studiomastr Professional product is carefully inspected before leaving the factory to ensure flawless appearance. After unpacking, please inspect for any physical damage. In the event that damage has occurred, immediately notify your dealer. Retain the cartons for future use should the product require servicing / maintenance.

3. Features

- High Performance RCF™ components used.
- State of the art crossover design to enhance the frequency response.
- Suitable for installations & touring.
- Easy carry handles & Heavy Duty protective steel grille.
- Exceptional sound quality, powerful response & broad dynamic range.
- High power & High Efficiency.
- High grade & durable cabinet design.
- Integral tripod & stand adapters.
- **Models Available.:** S5215 & S5225-W (Two-Way Passive Speaker), S8018 & S8118 (Single Subwoofer) S8028 (Dual Component Subwoofer)

4. Application

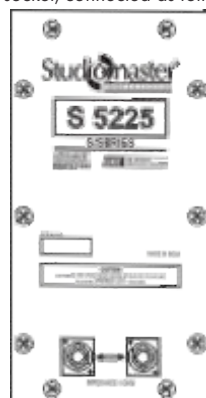
- Permanent Installations.
- Main reinforcement in small & medium spaces.
- High-Level AV Playback.
- Live Music Reinforcements.
- Large speech systems.

5. Connection

On the connection panel situated on the bottom of the speaker, there are two Neutrik Speakon® connectors. Once socket is for the audio signal input, and the second socket can be used as an output for parallel connection of another speaker. A male NL4FC model Neutrik Speakon® connector must be inserted in each socket, connected as follow:

Pin 1+= Signal (+)

Pin 1-= Ground (-)





WARNING: To prevent the risk of electric shock, do not connect the speaker with the amplifier switched on. Before using the speaker, check to make sure that all the connections have been made correctly, to prevent accidental short circuits from giving rise to electric sparks.

INSTALLATION



WARNING: Make sure the speaker is installed in a stable & secure way in order to avoid any condition of danger to persons or structures.

To prevent the risk of speaker falling, never stack the speakers without using an adequate anchoring system. In case of suspended installation, before suspending the speakers, carefully check all the components to be used to make sure there is no damage, deformation, corrosion, or missing or damaged parts that could reduce the safety of the installation. In outdoor use, avoid situating the speaker in places that are exposed to harsh weather.

6. Application Guidelines

- 1) **Wire size:** Please use cables of the correct gauge in order to obtain optimum performance from your speaker system. We recommend that your cable should be no smaller than 14 gauge (for sub-woofers 12 gauge). For cables of length 100-250ft it is recommended to use cables with a minimum of 12 gauge.
- 2) **Matching amplifier:** To get the maximum performance from your S-Series Loudspeaker, Studiomaster Professional recommends the following guidelines.
 - **Carefully Monitored Application:**
For carefully monitored applications, where the peak transient capability must be maintained, the amplifier should be capable of delivering twice continuous power rating of the speaker . As an example, a speaker rated at 500 continuous watts can be safely driven by an amplifier capable of 1000 watts power output.
 - **Routine application:**
For routine application where high continuous, but non-distorted output is likely to encountered, the amplifier power rating should match the continuous power rating of the speaker .
- 3) **To protect you system**
 - a) Use adequate clean power to drive the system to required levels. Avoid clipping or overloading in your power amplifier.
 - b) Recognize and respect the known limits of your equipment.
 - c) Consider adding a peak limiter, such as the compressor/limiter to your system to electronically limit potentially damaging your system.
 - d) To get the best performance from a loudspeaker, the amplifier should be rated higher in terms of watts. It wouldn't be unreasonable to connect a 200 W amplifier to a 100 W speaker, & it won't blow the drive units unless you push the level too high.
 - e) Use an electronic crossover to enhance the overall output of the system.

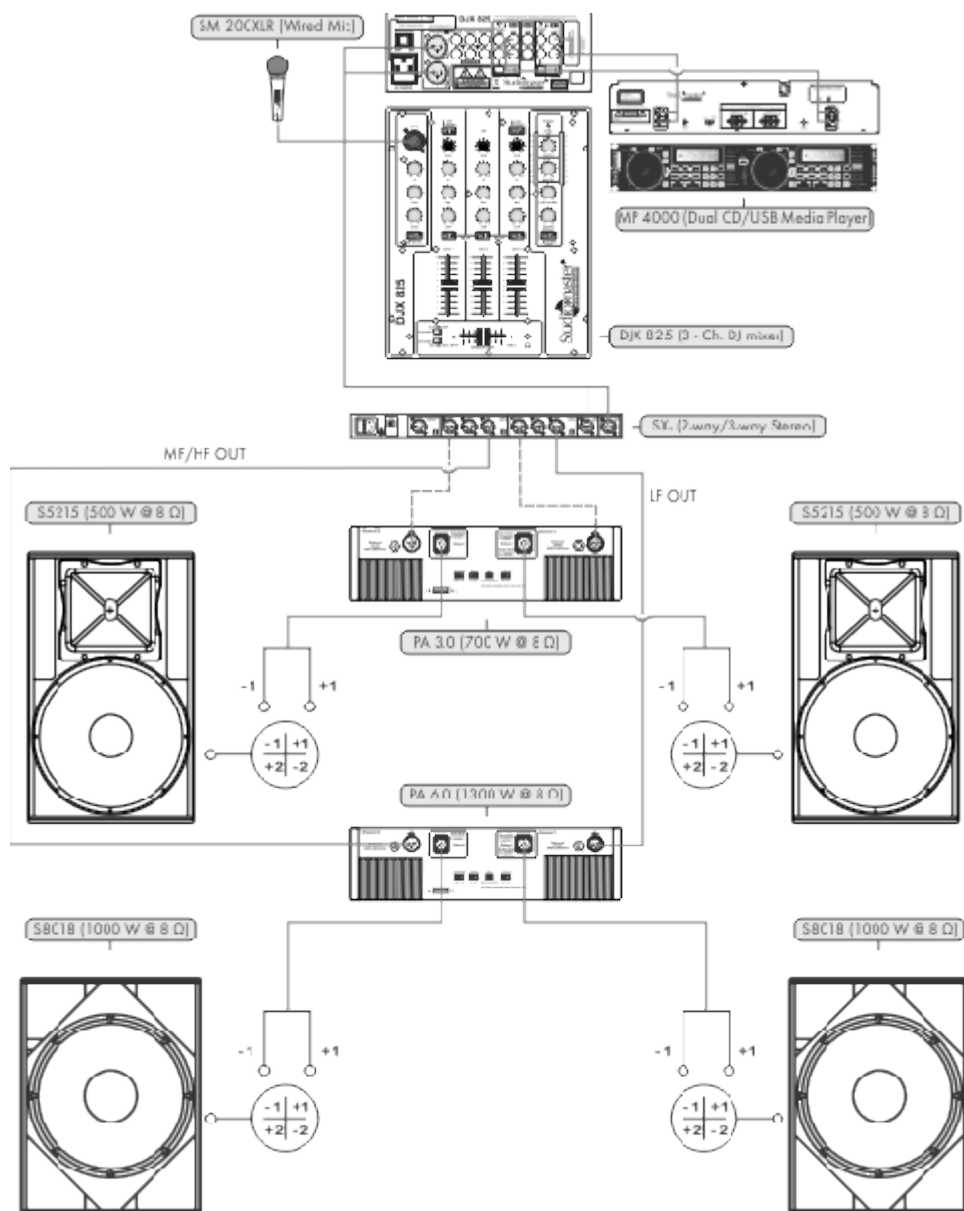
7. Hook-up Diagrams

Setup 1

Stereo setup

Power 3000 Watts RMS

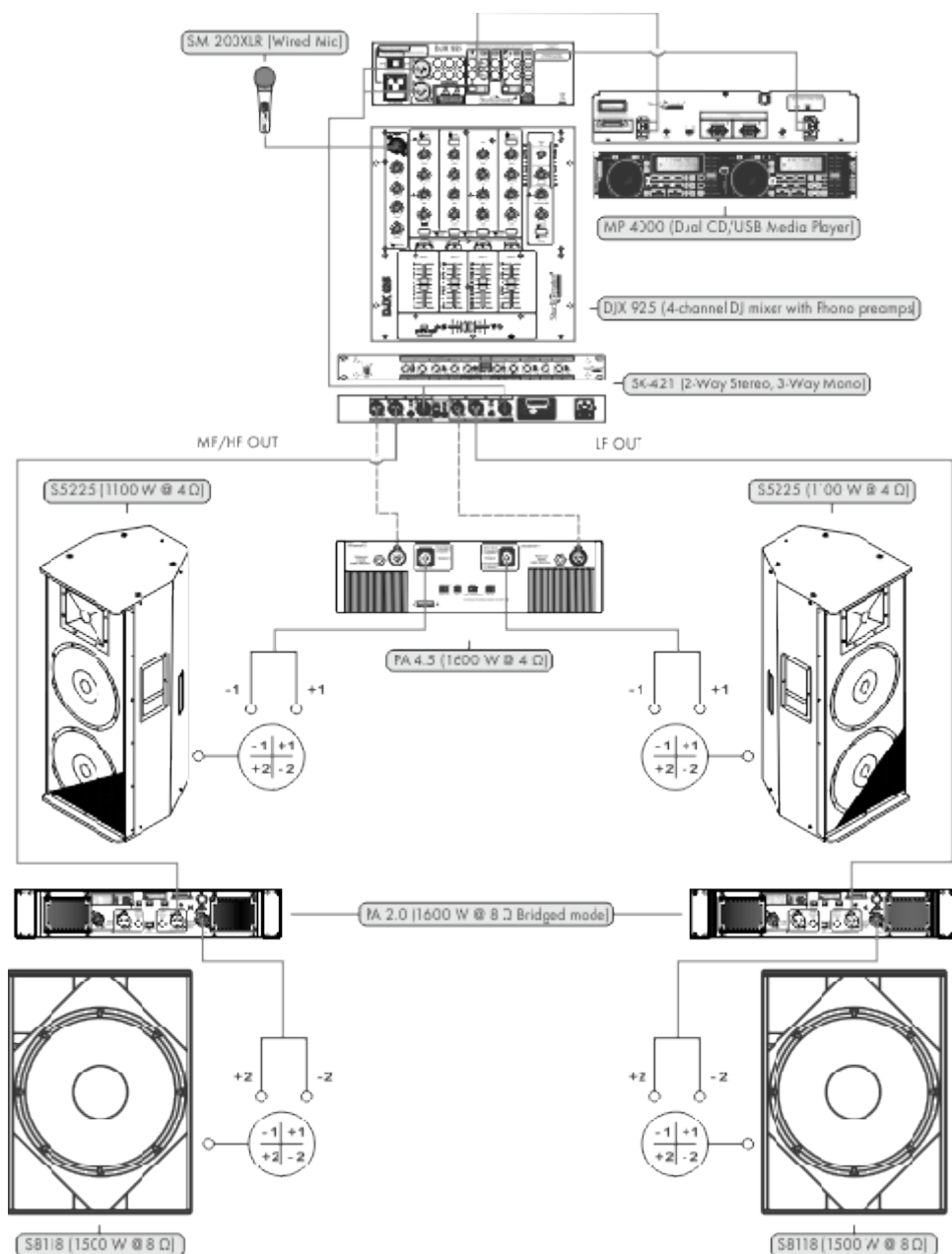
Effective System impedance 8 Ω



Setup 2

Stereo setup

Power 5200 Watts RMS

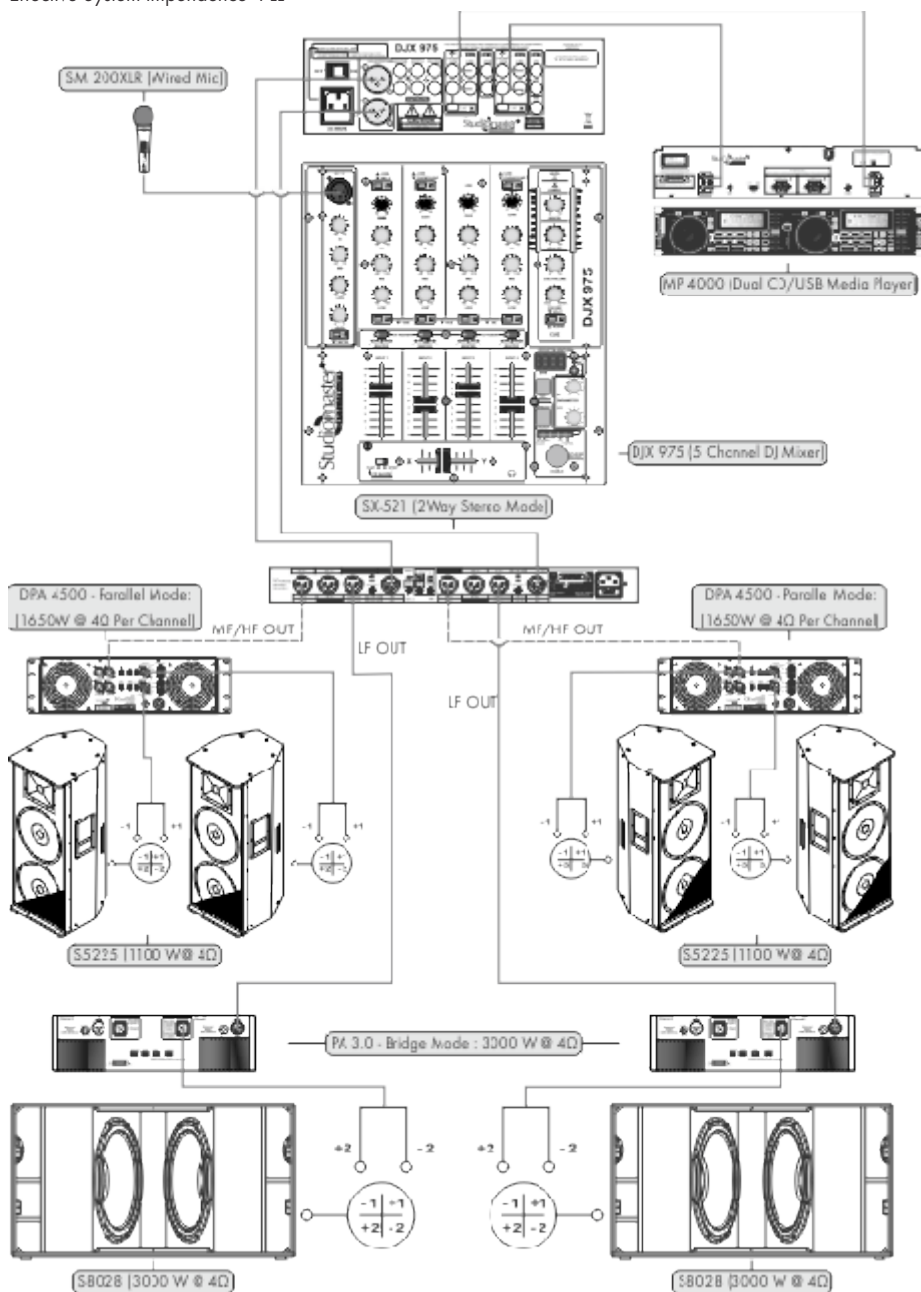


Setup 3

Mono/ Parallel setup

Power 10400 Watts RMS

Effective System impedance 4 Ω



8. Technical Specifications

Model	S5215	S5225	S8018
Type	2-Way Speaker	2-Way Speaker	Sub-Woofer
Freq. Range (-10dB)/(-3dB)	48Hz-20kHz/ 55Hz-20kHz	48Hz-20kHz/ 55Hz-20kHz	40Hz-200Hz
System Sensitivity	101dB, 1W @ 1m	101dB, 1W @ 1m	98dB, 1W @ 1m
Rated Maximum SPL	134 dB, @ 1m	134 dB, @ 1m	134 dB, @ 1m
System Nominal Impedance	8Ω	4Ω	8Ω
Power Rating			
Continuous/Peak	500W/1000W	1100W/2200W	1000W/2000W
Crossover	1.2kHz	1.3kHz	-
Transducers Powered by RCF			
Low Frequency	15" (381mm) Woofer with 3" (76.2mm) Coil	15" (381mm) Woofer with 3" (76.2mm) Coil	18" (457.2mm) Woofer with 4" (100mm) in/out voice Coil
Low Frequency Sensitivity	99dB, 1W @ 1m	98dB, 1W @ 1m	98dB, 1W @ 1m
High Frequency	1.4" (35.66mm) throat, 2.5" (64mm) coil diaphragm assembly	2" (50.8mm) throat, 3" (76.2mm) coil diaphragm assembly	-
High Frequency Sensitivity	111dB, 1W @ 1m	109dB, 1W @ 1m	-
Dimension(H x W x D)	690 x 408 x 450mm	1160 x 450 x 530mm	700 x 520 x 700mm
Weight (Kg)	30	55	48

Model	S8118	S8028
Type	Sub-Woofer	Sub-Woofer
Freq. Range (-10dB)/(-3dB)	25Hz-1kHz	25Hz-1kHz
System Sensitivity	98dB, 1W @ 1m	99dB, 1W @ 1m
Rated Maximum SPL	134 dB, @ 1m	134 dB, @ 1m
System Nominal Impedance	8Ω	4Ω
Power Rating		
Continuous/Peak	1500W/3000W	3000W/6000W
Crossover	-	-
Transducers Powered by RCF		
Low Frequency	1 x 18" (457.2mm) Woofer with 4" (100mm) in/out voice Coil	2 x 18" (457.2mm) Woofer with 4" (100mm) in/out voice Coil
Low Frequency Sensitivity	97.5dB, 1W @ 1m	97.5dB, 1W @ 1m
Dimension(H x W x D)	700 x 520 x 700mm	580 x 1060 x 700mm
Weight (Kg)	48	64

* Design and specification are subject to change without notice.

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