

4PRO SERIES



*Plug your favourite microphone into any 4PRO System
and immediately experience the accurate voicing.*

**PROFESSIONAL
SPEAKER
SYSTEMS
8003-AS**

IMPORTANT NOTES

Before connecting and using the amplifier, please read this instruction manual carefully and keep it on hand for future reference. The manual is to be considered an integral part of the product and must accompany the amplifier when it changes ownership as a reference for correct installation and use as well as for the safety precautions. RCF Spa. will not assume any responsibility for the incorrect installation and/or use of the product.



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

SAFETY PRECAUTIONS

1. All the precautions, in particular the safety ones, must be read with special attention, as they provide important information.
2. The power supply voltage of this equipment is sufficiently high to involve a risk of electrocution; therefore, never install or connect the product with the power supply switched on.
3. Before powering up the amplifier, make sure that all the connections have been made correctly and that the voltage of your power mains corresponds to the voltage shown on the rating plate on the unit; if it does not, please contact your RCF dealer.
4. The metallic parts of the unit are earthed by means of the power cable. In the event that the current outlet used for power does not provide the earth connection, contact a qualified electrician to earth the equipment using the dedicated terminal.
5. To protect the power cable from damage, make sure that it is positioned so that it cannot be stepped on or crushed by objects.
6. To prevent the risk of electric shock, never open the amplifier. There are no parts on the inside that the user needs to access.
7. Make sure that no objects or liquids can get into the amplifier, as this may cause a short circuit.
8. 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 amplifier does not function (or functions in an anomalous way);
 - the power supply cable has been damaged;
 - objects or liquids have got into the unit;
 - the amplifier has been subject to heavy impact.
9. When the amplifier is not to be used for long periods of time, switch it off and disconnect the power cable.
10. If the amplifier begins to emit any strange odours or smoke, switch it off immediately and disconnect the power supply cable.
11. Do not connect this product to any equipment or accessories not specified.
For suspended installation, only use the dedicated anchoring points and do not try to hang this product using HANDLES or 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.), and the components used for attachment (screw anchors, screws, brackets not supplied by RCF etc.), which must guarantee the security of the system/installation over time, also considering, for example, the mechanical vibrations normally generated by the transducer.
To prevent the risk of falling equipment, do not stack multiple units of this product unless this possibility is specified in the instruction manual.
12. RCF Spa. strongly recommends this product is installed by professional qualified installers (or specialised firms) who can ensure correct installation and certify it according to the regulations in force.
The entire audio system must comply with the current standards and regulations regarding electrical systems.
13. SUPPORTS AND TROLLEYS
The equipment should only be used on trolleys or supports, where necessary, that are recommended by the manufacturer. The equipment/support/trolley assembly must be moved with extreme caution. Sudden stops, excessive pushing force and uneven floors may cause the assembly to overturn.
14. 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.).
15. HEARING LOSS
Exposure to high sound levels can cause permanent hearing loss. The acoustic pressure level that leads to hearing loss is different from person to person and depends on the duration of exposure. To prevent potentially dangerous exposure to high levels of acoustic pressure, anyone who is exposed to these levels should use adequate protection devices. When a transducer capable of producing high sound levels 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

IMPORTANT NOTES

To prevent the occurrence of noise on the cables that carry microphone signals or line signals (for example, 0 dB), only use screened cables and avoid running them in the vicinity of:

- equipment that produces high-intensity electromagnetic fields (for example, high power transformers);
- mains cables;
- lines that supply loudspeakers.

OPERATING PRECAUTIONS

- Do not obstruct the ventilation grilles of the unit. Situate this product far from any heat sources and always ensure adequate air circulation around the ventilation grilles.
- Do not overload this product for extended periods of time.
- Never force the control elements (keys, knobs, etc.).
- Do not use solvents, alcohol, benzene or other volatile substances for cleaning the external parts of this product.

THE PHILOSOPHY OF 4PRO

If you have had the opportunity to listen to any of our active systems live in the past, then you will, hopefully be enthusiastic about our new 4PRO Series. The system represents a natural evolution of what RCF has produced in the past. This progression has now reached the 4PRO system, dedicated to live, touring and fixed installations. As with all of our developments, it comes out of a desire to improve on what has gone before. In doing so, we first listened to what our customers said, it is from their feedback, that we have striven to produce the perfect speaker. Over the past years, of continuous research and development of active technology, RCF have reached a whole new audience in the live PA and concert market. In doing so, one thing has become evident, in both large and small live music venues, with their professionalism there is a passion to produce something more - the sound that gives you the possibility of creating new emotions.

THE 4PRO SERIES

COMPONENTS

All the transducers in the 4PRO Series speakers feature light weight neodymium magnets in order to guarantee a better performance and make for easier transportation.

All Compression drivers and Transducers are precision built taking advantage of RCF's superior moulding, assembly technologies and a wealth of professional knowledge and experience dedicated to achieving extremely high standards.

AMPLIFIERS

All 4PRO Series new subwoofers are equipped with a new generation of 1000 Watt Digital Amplifiers, The result of this is very high output, extremely low distortion and an incredible natural sound.

Each amplifier presents both stereo XLR/jack (Combo) balanced inputs, stereo XLR output link/crossover, volume, phase switch, crossover selection switch. The amplifier features a solid mechanical aluminium structure which not only stabilize the amplifier during transportation but also assist in the heat dissipation.

All the 4PRO Series amplifiers presents PFC power supply section in order to produce maximum output even in case of tension drops from main supply.

CABINETS

The new loudspeaker design looks aggressive whilst retaining familiar 4PRO ergonomics and is the result of extensive combined functional and acoustic research.

The 4PRO two-way system cabinets are manufactured in Baltic birch plywood and are designed to dampen down vibrations even at maximum volume settings. The reflex porting has been resized to offer a better efficiency.

REAR PANEL FEATURES AND CONTROLS

ENGLISH



- 1 STEREO JACK/FEMALE XLR INPUTS (BAL/UNBAL)**
The system accept jack or XLR input connectors.
- 2 LIMITER LED**
The amplifier has a built in limiter circuit to prevent clipping of the amplifiers or overdriving the transducers. When the soft clipping circuit is active the LED blinks orange. It is okay if the limit LED blinks occasionally. If the LED blinks frequently or lights continuously, turn down the signal level.
- 3 SIGNAL LED**
The signal indicator lights green if there is signal present on the main XLR input
- 4 STATUS LED**
The status indicator flash if the temperature protection is active.
- 5 POWER LED**
This green led is ON when the speaker is connected to the main power supply and the ON/OFF is in ON position.
- 6 MALE XLR SIGNAL/XOVER OUTPUT**
The output XLR connector provides a loop trough for speakers daisy chaining (or provides a crossover output when the crossover switch is pushed).
- 7 VOLUME CONTROL**
Adjust the amplifier volume.
- 8 LINK/XOVER OUT SWITCH**
The output link is flat when the switch is OFF (the output signal is the same as the input signal), or is high passed when the switch is ON (to connect a satellite speaker).
- 9 XOVER SWITCH**
This switch sets the crossover frequency of the OUTPUT SIGNAL at 80 Hz or 120 Hz.
- 10 PHASE SWITCH**
This switch reverse the phase of the output signal.
- 11 IEC AC SOCKETS**
The IEC AC socket provides IN-OUT connections for the power cord to the socket and additional power link.
- 12 POWER MAIN SWITCH**
The power switch turns the AC power ON and OFF.

4PROSERIES

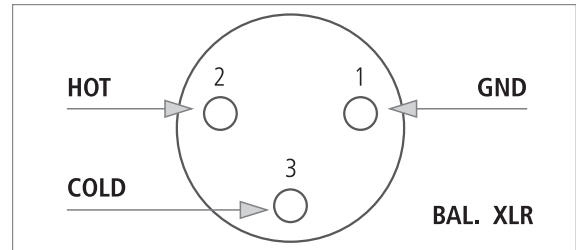
CONNECTIONS

The XLR connectors use the following AES standard:

PIN 1 = GROUND (SHIELD)

PIN 2 = HOT (+)

PIN 3 = COLD (-)



BEFORE CONNECTING THE SPEAKER

On the back panel you will find all the controls, the signal and current inputs. At first verify that the voltage selector on the speaker is in proper position for your country (115 Volt or 230 Volt).

The switch shall be in proper position (unless moved from unauthorized people), but a fast check will avoid problems. In case is necessary to change the voltage please call your vendor or authorized RCF SERVICE CENTRE. This operation require the substitution of the fuse value and is reserved to an RCF SERVICE CENTRE.

BEFORE TURNING ON THE SPEAKER

At this point you can connect the power supply cable and the signal cable, but before turning on the speaker make sure that the volume control is at the minimum level (even on the mixer output). It is important that the mixer is already ON before turning on the speaker. This will avoid damage to the speakers and noisy "bumps" due to turning on parts on the audio chain. It is a good practice to always turn on speakers at last and turn them off immediately after the show. Now you can turn ON the speaker and adjust the volume control to a proper level.

INSTALLATION

A 35 MM socket for mounting on top of the subwoofer a satellite speaker is provided on the top of the cabinet.

4PRO subwoofers are not designed for suspended applications.

 **WARNING: Never suspend 4PRO subwoofers by there handles. Handles are intended for transportation, not for rigging.**

PROTECTIONS

4PRO Series active speakers are equipped with a complete system of protection circuits. Two led on the amplifier back panel indicate the working status of the amplifier: the green led indicate that the speaker is ON and the red led is on when the protection circuit is active. The circuit is acting very gently on audio signal, controlling level and maintaining distortion at acceptable level. If this led is ON for a long period is better to reduce immediately the signal level from the mixer or from the speaker volume control.

VOLTAGE SETUP (RESERVED TO THE RCF SERVICE CENTRE)

230 Volt, 50 Hz SETUP: FUSE VALUE T10 AL 250V

115 Volt, 60 Hz SETUP: FUSE VALUE T5 AL 250V