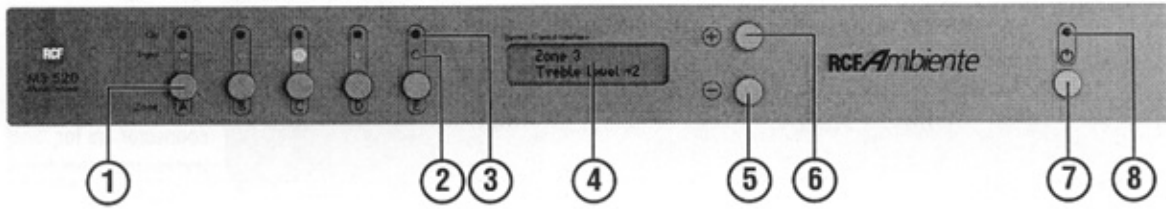
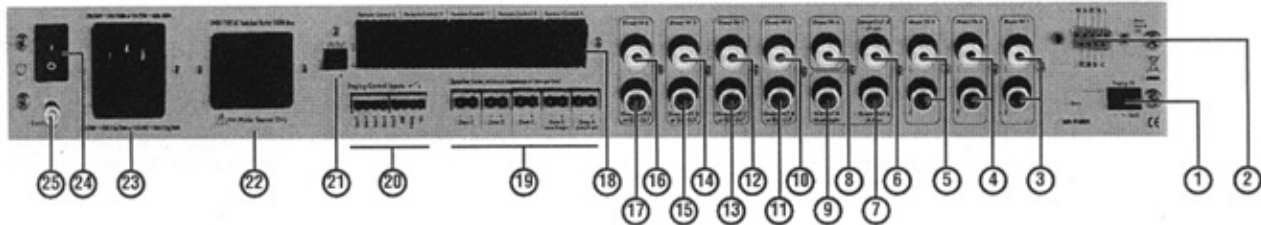


FRONT PANEL

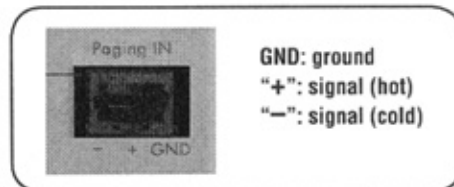


- ① 5 zone (A, B, C, D, E) / menu page keys.
- ② 5 green LED indicating the signal presence on each zone / output.
- ③ 5 red LED indicating the signal peaks (clipping) on each zone / output.
- ④ Backlit LCD display (16 characters x 2 lines).
- ⑤ Key (-): it decreases the value of the selected parameter.
- ⑥ Key (+): it increases the value of the selected parameter.
- ⑦ ON / stand-by key.
- ⑧ LED indicating when the unit is ON (green) or in stand-by (red).
Note: if this LED is not lit, the unit is turned off by the main switch on the rear panel.

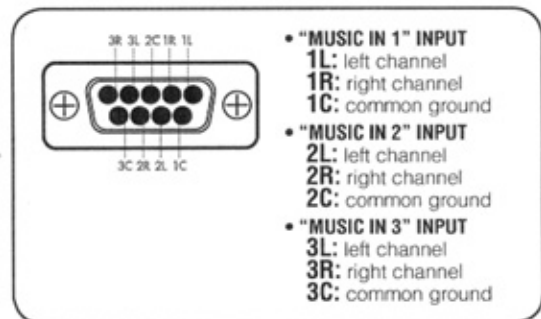
REAR PANEL

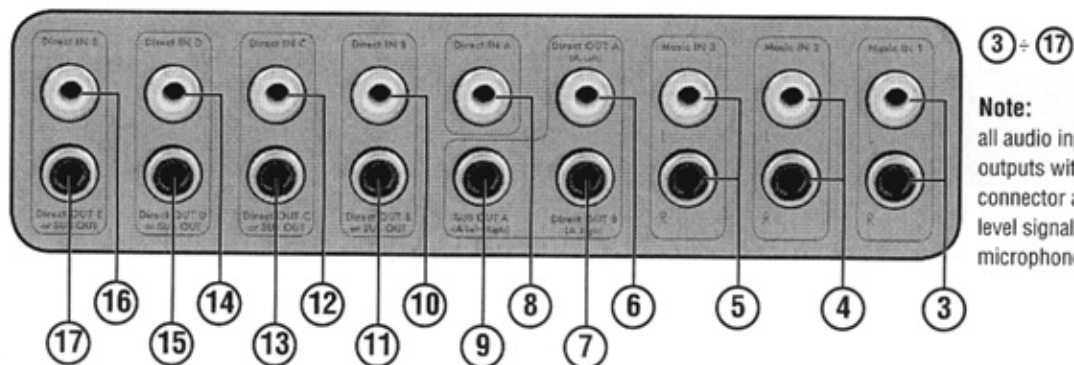


- ① **Paging IN:** Balanced audio input (with "Phantom" supply, if activated by inserting the 2 internal jumpers JP1 and JP2 for a paging microphone (or a "line" level signal by removing the internal jumpers JP4 and JP5).
The gain can be adjusted by the trimmer next to the input.



- ② 9 pin connector to link 2 units **MS 520** when the second unit shares the music sources ("Music IN 1", "Music IN 2", "Music IN 3") of the first **MS 520**. It can be used as either input or output for each of the 3 music sources.





③ "Music IN 1" audio input (L: left channel R: right channel) for a music source (e.g.. CD player, cassette recorder, tuner, etc...).

④ "Music IN 2" audio input (L: left channel - R: right channel).

⑤ "Music IN 3" audio input (L: left channel - R: right channel).

⑥ "Direct OUT A (A left)" audio output to connect an additional amplifier or other devices. The output signal is the zone A selected programme, which can be either mono (sum of the 2 channels) or the only left channel when the unit is set to the mode "zone A stereo + 3 mono zones" in the configuration menu ("Zone A mode": "Stereo ZA-L,ZB-R").

⑦ "Direct OUT B (A right)" audio output. The output signal is either the zone B selected programme (mono) or the zone A right channel (when zone A is set to stereo mode).

⑧ "Direct IN A" audio input. In addition to the 3 music programmes common to all the 5 zones, it is also possible to send other 5 signals to the direct inputs "Direct IN", each one dedicated for a single zone only. The input "Direct IN A" is therefore the fourth available signal for the zone A (only).

⑨ "SUB OUT A" audio output for an active subwoofer (zone A). The cut-off frequency is initially 200 Hz and can be set to 80 or 130 Hz in the configuration menu.

⑩ "Direct IN B" audio input available for the zone B only.

⑪ "Direct OUT B or SUB OUT" audio output. According to the settings in the configuration menu, one of the following signals is available on this output (see tab. "outputs A / B"):

[5 zone mode (zone A mono)]

- Zone B selected programme (mono).
- Zone B selected programme with low-pass filter (80 or 130 Hz, selected in the configuration menu) for an active subwoofer.

[1 + 3 zone mode (zone A stereo)] note: zone B controls are disabled

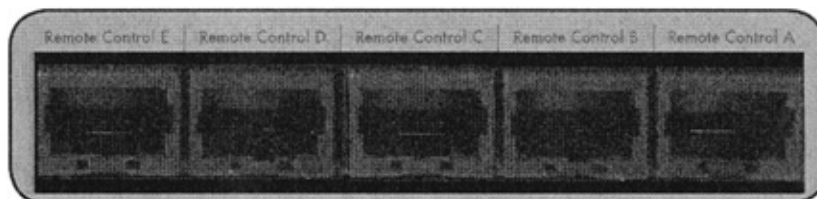
- Zone A selected programme (mono).
- Zone A selected programme with low-pass filter (80 or 130 Hz, selected in the configuration menu) for an active subwoofer.

OUTPUTS A / B

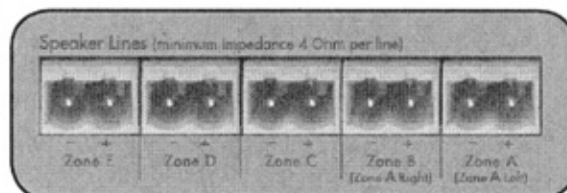
MODE	AUDIO OUTPUTS			
	⑥ Direct OUT A (A left)	⑦ Direct OUT B (A right)	⑧ SUB OUT A (A left + right)	⑩ Direct OUT B or SUB OUT
A (mono, crossover ON/OFF) B "crossover" OFF	zone A	zone B	subwoofer zone A	zone B
A (mono, crossover ON/OFF) B "crossover" ON	zone A	zone B	subwoofer zone A	subwoofer zone B
A stereo crossover OFF	zone A left channel	zone A right channel	subwoofer zone A	zone A (mono)
A stereo crossover ON	zone A left channel	zone A right channel	subwoofer zone A	subwoofer zone A

- ⑫ "Direct IN C" audio input available for the zone C only.
- ⑬ "Direct OUT C or SUB OUT" audio output. According to the settings in the configuration menu, one of the following signals is available on this output:
- Zone C selected programme (mono).
 - Zone C selected programme with low-pass filter (80 or 130 Hz, selected in the configuration menu) for an active subwoofer.
- ⑭ "Direct IN D" audio input available for the zone D only.
- ⑮ "Direct OUT D or SUB OUT" audio output. According to the settings in the configuration menu, one of the following signals is available on this output:
- Zone D selected programme (mono).
 - Zone D selected programme with low-pass filter (80 or 130 Hz, selected in the configuration menu) for an active subwoofer.
- ⑯ "Direct IN E" audio input available for the zone E only.
- ⑰ "Direct OUT E or SUB OUT" audio output. According to the settings in the configuration menu, one of the following signals is available on this output:
- Zone E selected programme (mono).
 - Zone E selected programme with low-pass filter (80 or 130 Hz, selected in the configuration menu) for an active subwoofer.
 - Zone E selected programme with low-pass filter (200 Hz) set by moving the internal jumper JP3 (for an active subwoofer).

- ⑱ 5 "Remote Control" inputs (one per zone) to connect remote controls RC62



- ⑲ 5 Loudspeaker outputs "Speaker lines" (one per zone). The total minimum impedance of each loudspeaker line (connected to 1 output only) must not be lower than 4 Ω. Max. deliverable power (per output): 20 W (on 4 Ω load).



20 "Paging Control Inputs"

Double socket for removable 4 pole screw terminals.
(from right to left)

+Vcc: available voltage (ca. 8.5 V dc, ref. "GND") to power a paging microphone.

Priority: A momentary link (for instance, through a pushbutton) of the pin "Priority" to "GND" temporary increases the volume levels (ca. $\frac{3}{4}$) during an announcement (through the "Paging IN") in the selected zones only, even if these have been previously set to zero ("mute").

This feature is especially useful in case of emergency.

GND: Common ground.

Zone A: When this pin is linked to ground ("GND"), one of these events will occur:

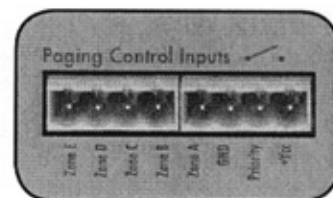
- If "VOX" is OFF or assigned to the input "Music IN 3", the input "Paging IN" will be immediately ON and sent to zone A with priority over the background music (inputs "Music IN" 1, 2, 3) and the dedicated "Direct IN".
- If "VOX" is assigned to the input "Paging IN", the zone A will be prearranged for paging. The announcement will be sent when the "VOX" circuit detects a signal on the input "Paging IN".

Zone B: as "Zone A" (but affecting the zone B).

Zone C: as "Zone A" (but affecting the zone C).

Zone D: as "Zone A" (but affecting the zone D).

Zone E: as "Zone A" (but affecting the zone E).

**21**

Output for an infrared emitter
(for future applications).

22

Socket to power another device (e.g. CD player, etc...; absorbed power: max. 100 W).

Note: it is alive only when the unit **MS 520** is ON (green LED, no.8 on front panel drawing); therefore, when the unit is in stand-by or OFF, the connected device is not powered.

23

Power supply cable plug (230 / 115 V ac) with fuse
(**note:** the fuse type is indicated on the rear panel).

24

Main power switch.

25

Terminal to earth the unit.