

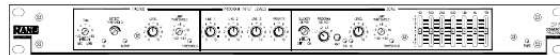


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You can read the recommendations in the user guide, the technical guide or the installation guide for RANE CP 52. You'll find the answers to all your questions on the RANE CP 52 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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RANE OPERATORS MANUAL CP 52 COMMERCIAL PROCESSOR



QUICK START

If you were the type that cheated on school book reports by just skimming through the reading assignments, then this section is for you! It gives you not quite enough information to *really* know what you're doing. But, if you follow the recommended set up procedure, you should get at least a "B."

Keep the amplifiers and the CP 52 turned *off* until all connections are made.

PAGE INPUT

Connect the **PAGING INPUT** to the Euroblock on the rear panel. On the front, select the appropriate **MIC** or **LINE** switch position. Then set the gain with the **PAGING TRIM** control, then set the **PAGING DETECT THRESHOLD** and finally the **PAGING LEVEL**. **PHANTOM POWER**, **HIGH/LOW CUT FILTER** and **PAGE LEVEL TRACKS** **ZONE LEVEL** switches are located on the rear panel.

PROGRAM INPUTS

Connect line level program sources to the **RCA PROGRAM INPUT** jacks (**LINE 1, 2, 3 & P**). If you have a priority program, like a jukebox, connect it to the **PRIORITY** input. The Program **PRIORITY** assign switch turns priority override **ON** or **OFF**. The Priority program is automatically selected when signal is detected at its input. Set the **PROGRAM DETECT THRESHOLD** and **RELEASE TIME** as desired.

ZONE EXPAND

Wire the **ZONE EXPAND** Output Euroblock as required to a mono feed delivering **PAGE-only**, **PROGRAM-only** or **ZONE** (both) signal depending on the switch setting. This Output uses a cross-coupled line driver and may be used balanced or unbalanced. Adjust the **ZONE EXPAND LEVEL** trim as desired.

ZONE OUTPUT

The **ZONE OUTPUT** uses a cross-coupled line driver and may be used balanced or unbalanced. Set the front panel **LIMIT THRESHOLD** as required. Depress the **MONO** switch for a mono Zone.

ZR 1 REMOTE

You may use one **ZR 1** Remote (sold separately) with the CP 52. Wire it to the **ZONE REMOTE** Euroblock as indicated. If a **ZR 1** remote is not used, any simple switch closure to **GND** will work for the **D0** and **D1** pins. These pins are TTL compatible (0 to 5 VDC). The logic is inverse Gray Code. Any ground referenced 5 volt DC control may be used as the input to **Vc**. Do *not* ground the **Vr** pin.

The CP 52 is very versatile. While this makes a large number of system applications possible, it also results in complexity. For this reason, it is *important* to use an *organized approach for setup and calibration*. A highly recommended setup procedure appears on page Manual-7. By following it you will encounter fewer problems and reduce the need to increase our collective phone bills.

CAUTION: Never connect anything except an approved Rane Power supply to the thing that looks like a red telephone jack on the rear of the CP 52. This is an 18 VAC center tapped power input. Consult the Rane factory for a replacement or substitution.

WEAR PARTS: This product contains no wear parts.

Manual-1



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Manual abstract:

But, if you follow the recommended set up procedure, you should get at least a "B." Keep the amplifiers and the CP 52 turned off until all connections are made. PAGE INPUT Connect the PAGING INPUT to the Euroblock on the rear panel. On the front, select the appropriate MIC or LINE switch position. Then set the gain with the PAGING TRIM control, then set the PAGING DETECT THRESHOLD and finally the PAGING LEVEL. PHANTOM POWER, HIGH/LOW CUT FILTER and PAGE LEVEL TRACKS ZONE LEVEL switches are located on the rear panel. PROGRAM INPUTS Connect line level program sources to the RCA PROGRAM INPUT jacks (LINE 1, 2, 3 & P). If you have a priority program, like a jukebox, connect it to the PRIORITY Input. The Program PRIORITY assign switch turns priority override ON or OFF. The Priority program is automatically selected when signal is detected at its Input. Set the PROGRAM DETECT THRESHOLD and RELEASE TIME as desired. ZONE EXPAND Wire the ZONE EXPAND Output Euroblock as required to a mono feed delivering PAGE-only, PROGRAM-only or ZONE (both) signal depending on the switch setting. @@Adjust the ZONE EXPAND LEVEL trim as desired. @@Set the front panel LIMIT THRESHOLD as required. Depress the MONO switch for a mono Zone.

@@Wire it to the ZONE REMOTE Euroblock as indicated. @@These pins are TTL compatible (0 to 5 VDC). The logic is inverse Gray Code. Any ground referenced 5 volt DC control may be used as the input to Vc. Do not ground the Vr pin.

The CP 52 is very versatile. While this makes a large number of system applications possible, it also results in complexity. For this reason, it is important to use an organized approach for setup and calibration. A highly recommended setup procedure appears on page Manual-7. By following it you will encounter fewer problems and reduce the need to increase our collective phone bills. CAUTION: Never connect anything except an approved Rane Power supply to the thing that looks like a red telephone jack on the rear of the CP 52. This is an 18 VAC center tapped power input. Consult the Rane factory for a replacement or substitution. WEAR PARTS: This product contains no wear parts. Manual-1 CP 52 - FRONT PANEL PAGING TRIM control adjusts the Page Input preamplifier gain to match the microphone/source in use, not to set the Page level in the Zone Output.

The range is 30 dB to 60 dB. PAGING MIC/LINE switch selects a 30 dB Input Pad when set to LINE. Phantom Power is disabled when LINE is selected. PAGING DETECT THRESHOLD sets the Page signal level required to gate a Page on and illuminate the ACTIVE indicator (see). The range is - (on) to +4 dBu. PAGING OL (Overload) indicator lights when the Page Input preamplifier comes within 3 dB of clipping. ACTIVE indicator lights when the Page signal level reaches the Paging Detect Threshold. Note that a Page is always Active when the PAGING DETECT THRESHOLD is set to minimum (ccw). PAGING LEVEL control adjusts the Paging Level in the Zone. PAGING LIMIT THRESHOLD control sets the maximum output level for a Page.

This is a true voltage Limiter circuit with a ratio of 15:1. The Threshold range is -20 dBu to +20 dBu. The THRESHOLD indicator lights during limiting. PROGRAM INPUT LEVEL controls allow independent adjustment of level for each Program Input. ZONE DUCKER DEPTH control sets the Ducker Depth (the amount of Program attenuation during a Page) from 50 dB (ccw) to 6 dB (cw).

The Ducker release is ramped. ZONE DUCKER OFF/ON switch turns the Ducker ON or OFF. ZONE PROGRAM SELECT switch assigns one of four Program Inputs to the Zone Output. ZONE RMT switch, when pushed in, turns control of Zone Level and Zone Program Selection over to the Zone Remote Port. Front panel ZONE LEVEL and ZONE PROGRAM SELECT controls are inactive when RMT is selected.

An optional wired ZR 1 remote may be connected to the Zone Remote Port. An object smaller in diameter than the switch button is required to engage the RMT switch. ZONE SIG/OL indicators show Signal present at -20 dBu and Overload at +16 dBu (4 dB before clipping) respectively. ZONE LEVEL control adjusts the overall Level for the Zone Output. If the rear panel PAGE LEVEL TRACKS ZONE LEVEL switch is ON, this control also effects the Paging Level. ZONE LIMIT THRESHOLD control sets the maximum level for the Zone Output. This is a true voltage Limiter circuit with a ratio of 15:1. The Threshold range is -20 dBu to +20 dBu. The THRESHOLD indicator lights during Limiting. GRAPHIC EQUALIZER controls are "stereo," with each slider controlling the response of both Left and Right channels.

These controls allow ± 12 dB adjustment of seven ISO center frequencies on 11/3 octave centers. PWR indicator lights when the CP 52 is connected to a powered RS 1 power supply. Manual-2 CP 52 - REAR PANEL Chassis Ground Screw provides a convenient earth (technical) ground connection point. The CP 52 does not ground the chassis through the power cord. It is important that the unit be grounded. POWER jack accepts the cable from a Rane RS 1 remote power supply (included) or an optional Rane RAP 10 power supply. This is not a telephone jack. Use of a supply not approved by Rane may damage the unit and void the warranty. ZONE REMOTE Port provides the wiring interface for the optional ZR 1 wired remote. The ZR 1 remote provides remote control of Zone Level and Zone Program Select functions.

Refer to page Manual-5 for details. ZONE OUTPUT Port features a balanced cross-coupled line driver with a Euroblock connector. These Left and Right Outputs may be wired balanced or unbalanced. MONO switch, when pressed in, sums the left and right signals to provide a mono Zone signal available at both Left and Right Outputs. ZONE EXPAND Port features a balanced cross-coupled line driver with a Euroblock connector. This mono Output may be wired balanced or unbalanced. ZONE EXPAND switch assigns PAGE-only, PROGRAM-only or full ZONE (both) as the source for the Expand Output. ZONE EXPAND LEVEL trim adjusts the signal level delivered to the ZONE EXPAND OUTPUT. PRIORITY RELEASE TIME control sets the delay time from last detected signal to release of automatic priority override. The range of control is 5 seconds (ccw) to 20 seconds (cw).

@@@@The factory setting is -50 dBu. Four PROGRAM INPUTS are provided. Three are non-priority Inputs. The fourth is a Program PRIORITY Input.

@@@@When OFF, Paging level and Zone level are independent. @@The Paging detector is always bandlimited to 100 Hz to 7 kHz.

@@@@@@@@@@@@@@@@@@@@Avoid stripping excess insulation. Inspect wires for nicks that may lead to wire breakage. @@@@Wiring is usually the same for both Inputs and Outputs. Balanced operation is recommended.

@@@@The cable is wired to the CP 52 the same as for balanced operation. @@@@@@@@@@@@@@When operating cross-coupled line drivers unbalanced (i.e., any CP 52 Output), it is essential to ground the () pin. Refer to the included RaneNote 110, "Sound System Interconnection" for more information on proper wiring procedures. RCA PROGRAM INPUTS The four stereo Program Inputs connect to RCA jacks.



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These Inputs are unbalanced. The same guidelines given above for unbalanced operation apply to these Inputs. Manual-4 ZR 1 Program Select/Level Remote Control ZR 1 REMOTE INSTALLATION The CP 52 supports a wired remote for Zone Level and Zone Source selection. Wire lengths of up to 1000 feet are possible.

A brief list of suitable wire types is provided below in the section on Wire Types. The ZR 1 remote provides Zone Level and Source Selection, allowing local control from inside the Zone. If only one of the two controls is used, you may wish to remove the unused knob and cover the hole with one of the plugs provided in the kit. If you require one ZR 1 remote to control more than one unit, simply wire the ports in parallel. This may be done with the Selector only, Level only or both.

Be sure Power to the CP 52 is off while all remote connections are made. It is important to ensure that the CP 52 Remote Port is not subjected to sustained voltages outside the range of 0 to 5 volts DC or high levels of static. Inputs are protected--however, caution is the better part of.. you know. It is a good idea to install the wiring, connect it to the remote assemblies and then make the final connections at the CP 52. Do not short the Vr pin to ground. Although the pin is current limited, excess heat will be generated in the 5 volt supply if a short occurs. Never subject the Vr pin to voltages above 5 volts. @@These pins are TTL compatible (0 to 5 VDC). The logic is inverse Gray Code. Any ground referenced 5 volt DC control may be used as the input to Vc. Do not ground the Vr pin. Remote Selector 11=LINE 1 10=LINE 2 00=LINE 3 01=PRIORITY Remote Volume 2k ohm Pot, reverse-log taper Or any GND referenced 0-5 VDC.

Attenuation=64 mV/dB. Range 0V to +5V (0 to -87 dB). ZR 1 REMOTE MOUNTING The ZR 1 remote assembly mounts in a standard U.S. electrical box with a minimum depth of 2.25". Be sure to note the wire color of each input in order to facilitate correct wiring to the CP 52. Connect each wire to the 5-pin connector by fully inserting it in the correct socket and tightening the screw. Make sure wires are free of nicks and that the cable jacket is stripped back sufficiently to allow it to lie in the electrical box with the remote assembly inserted. Use the flat head #6 screws supplied with the kit to mount the remote assembly and silk-screened front panel to the electrical box (see diagram, next page).

Note the "UP" arrow screened on the printed circuit board of the remote (mount it pointing up). The silk-screened front panel metal is painted on both sides. This allows you to custom silk-screen the panel or add your own custom decals. Simply install the modified front panel with your art facing out. Install it the way you would ever desire.

- 3. Adjust the Zone LIMIT THRESHOLD so that it just starts to audibly reduce the output level. This ensures that the level will never be louder than the maximum level just set. 4. Turn the Zone LEVEL control down to a comfortable listening level.*
- 5. Note that with the Paging LEVEL set to minimum, the following Page will not be heard. Speak very loudly (bark) into the Paging mic. Adjust the Paging TRIM control so that the Paging Overload indicator just lights. It is important to set the gain of the pre-amp before setting the Paging Detect Threshold. 6. Speak into the Paging mic in a normal voice and adjust the Paging DETECT THRESHOLD so the ACTIVE indicator lights only during speech. If the Paging Detect Threshold is set too low, the Pager may gate on due to background sound. 7. With an active Program source playing, speak into the Paging mic.*

Adjust the Paging LEVEL control to provide the correct Page-to-Program mix. If the Paging Detect Threshold is set too high, there may be a delay before speech is heard. To correct this, lower the Paging Detect Threshold setting. 8. Set the Paging LIMIT THRESHOLD to limit the maximum Page level to the loudest desired volume. 9. Set the DUCKER switch to ON. @@10. Set the rear panel Program PRIORITY ON/OFF switch as required. @@@11. @@@12. Adjust the Equalizer as desired. SECURITY Rane offers a few options to protect the settings you just made. To protect the setting of any rotary control, remove the knob and replace with one of the hole plugs included with the unit. To protect the equalizer section only, use a Rane SCP 1 security cover. To protect the entire front panel and allow use only with the ZR 1 Remote, use a Rane SC 1.7. You're all set. Enjoy. ©Rane Corporation 10802 47th Ave. W., Mukilteo WA 98275-5098 TEL (425)355-6000 FAX (425)347-7757 WEB <http://www.rane.com> 103134 Manual-7 .



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