

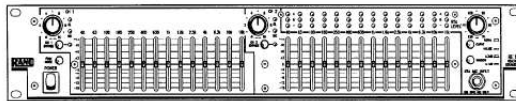
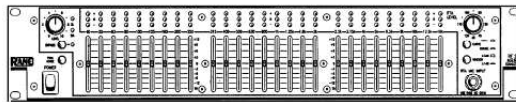


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You can read the recommendations in the user guide, the technical guide or the installation guide for RANE RE 27. You'll find the answers to all your questions on the RANE RE 27 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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RE 27 AND RE 14



OPERATING AND SERVICE MANUAL



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Manual abstract:

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CONSEQUENTIAL AND INCIDENTAL DAMAGES SUCH AS ECONOMIC LOSS OR INJURY TO PERSON OR PROPERTY, WHATEVER THE CAUSE, ARE EXCLUDED FROM COVERAGE. PLEASE REFER TO THE LIMITED WARRANTY CARD FOR A FULL DESCRIPTION OF THE LIMITS ON THE COVERAGE OF THE LIMITED WARRANTY. If you need further assistance concerning the repair, installation or operation of your Rane product, please feel free to contact Rane galactic headquarters at: Rane Corporation 10802 47th Avenue West Mukilteo, WA 98275-5098 Phone: (425) 355-6000 FAX: (425) 347-7757 2. **PANEL DESCRIPTIONS RE 27 FRONT PANEL RE 14 FRONT PANEL 1. EQ LEVEL CONTROL:** This controls volume through the equalizer section and provides up to 6 dB overall gain.

Turn this control down if the overload LED lights up. 2. **BYPASS SWITCH:** Push this button IN to bypass the equalizer and level control; the bypass LED will light whenever the bypass switch is engaged. 3. **POWER SWITCH:** You've probably figured this one out by now... 5. **OVERLOAD INDICATOR:** This red LED lights whenever the signal level through the equalizer section reaches 4 dB below clipping 7.

ANALYZER DISPLAY LEDs: Each red LED lights up when response is too high in that band; green LEDs light when response is within ± 3 dB or ± 1 dB of the selected curve; yellow LEDs come on when response is too low. 8. **EQUALIZER SLIDERS:** Calibrated in 3 dB increments, these sliders provide 12 dB of boost and 15 dB of cut at each of the ISO frequency centers. 9. **CURVE SELECT SWITCH:** The NORMAL position will yield a flat response when all LEDs are green. The HOUSE CURVE changes the response of the display such that the EQ sliders between 400 Hz and 1.6 kHz must be attenuated 3 dB to obtain green LED response. This reduction in midrange results in a warmer more desirable sound at lower sound pressure levels. 10. **WINDOW SELECT SWITCH:** In the ± 3 dB position, the green LED in each band will be lit when signals of that frequency are within 3 dB above or below the Normal or House curve, whichever is selected.

In the ± 1 dB mode, system response must be within 1 dB above or below the selected curve to light the green LEDs. 3 11. **MICROPHONE INPUT JACK: PLUG ONLY THE RANE MICROPHONE INTO THIS JACK--THE DC POWER SUPPLY VOLTAGE SUPPLIED BY THIS JACK COULD BE DAMAGING TO ANY OTHER MICROPHONE** When the mic is plugged in, the display responds to whatever the mic picks up; when the mic is unplugged, the jack automatically switches the display to monitor the output of the equalizer section (see Section IV-9). 12. **RTA LEVEL CONTROL:** Use this knob to adjust the microphone level (or line level when the microphone is unplugged) to properly drive the display.

@RE 27 REAR PANEL RE 14 REAR PANEL 1. @2. @@@@4. @@@@6. @Normally, this switch should be in the LIFT position. If you are tempted to try moving this switch with your power amplifiers turned on or turned up, **DON'T BE. ALWAYS TURN YOUR AMPLIFIER LEVELS DOWN BEFORE CHANCING YOUR GROUNDS AROUND** and then bring them up slowly. 4 3-PIN BALANCED RANE 1/4" IN (BAL) See Rane Note 110 for other configurations. III. **INSTALLATION** This section contains several diagrams which plainly show many, but by no means all, of the ways to connect the RE 27 or RE 14 into a sound reinforcement or monitor system. Whatever your particular application, it is helpful to realize that the RE 27 or RE 14 is actually two independent products in one: an equalizer with input(s) and output(s), and a realtime analyzer with mic input and pink noise output Another thing to keep in mind is that the analyzer display will automatically monitor the output of the equalizer section whenever the microphone is unplugged from the front panel jack This feature is very useful in monitoring program material for feedback problems, resonances and the like. Diagram III-1 : Main Speaker Equalization Diagram III-2: Powered Mixer System Equalization Diagram III-3: Stage Monitor Equalization Using Rane Microphone Diagram III-4: Equalizing Specific Microphone/Speaker Combinations 5 DIAGRAM III-1: MAIN SPEAKER EQUALIZATION HEAVY LINES INDICATE DIRECT CONNECTIONS TO RE 27 AND RE 14. Thinner lines show other connections in the system for clarity. **IMPORTANT NOTES:** 1. The RE 27 and RE 14 inputs are automatic balanced/unbalanced.

If the output of the mixer is unbalanced, use a shielded mono 1/4" patch cord to the EQ input(s). If the mixer is balanced, use a connecting cord with a stereo 1/4" plug on one end for the EQ input(s) and a three-pin or 1/4" jack for the mixer as required. 2. To drive both left and right amplifier channels from a single RE 27 output, use a "Y" connector to split the RE 27 output to both left and right inputs of the amp or crossover. (NOTE: If you have the good fortune to be using a Rane crossover AC 22 or AC 23, you need only connect the single RE 27 output to the Channel 2 input of the crossover--both left and right outputs will automatically be driven internally to eliminate the need for a "Y" connector.) 3. If the RE 27 or RE 14 is more than 10 feet from the amp rack be sure that the input of the electronic crossover or amplifier is BALANCED. If not, obtain a direct box or balancing line transformer to be installed at the input of the amp rack. Connect the RE 27 or RE 14 output (s) to the amp rack using a stereo 1/4" plug wired as shown in Diagram I I-1. Long runs of unbalanced lines will usually result in excessive hum or buzz.

6 DIAGRAM 111-2: POWERED MIXER SYSTEM EQUALIZATION HEAVY LINES INDICATE DIRECT CONNECTIONS TO THE RE 27 AND RE 14. Thinner lines show other connections for clarity. **IMPORTANT NOTES:** 1.



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