



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for RANE MA 6. You'll find the answers to all your questions on the RANE MA 6 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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MA 6



OPERATING  
AND  
SERVICE  
MANUAL



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**Manual abstract:**

**POWER SWITCH:** Obediently turns the MA 6 on and off every time you poke it with your finger (or other suitable object). All six channels have delayed turn-on/ instant turn-off relays to eliminate any switching transients. 2. **THERMALOVERLOAD INDICATOR:** This red LED will light up if the MA 6 becomes too hot, indicating that power has been removed from all six channels, while the fan continues to cool the heatsink assembly. Be sure to check the fan filter and actual speaker impedances if this indicator lights up. 3. **POWER INDICATOR:** on. This yellow LED lights whenever the MA 6 power switch is turned 4. **SIGNAL PRESENT INDICATORS:** Each of these green LEDs will light whenever the input to the channel is -20 dBm or greater. These LEDs will assist you in identifying which channels carry which-signal, as well as being handy troubleshooting aids in the event of signal loss. 5. **LIMIT INDICATORS:** Each of these yellow LEDs will light whenever that particular channel enters the limit mode. @@@@6. @@@@Use a mono shielded patch cable for unbalanced operation.

Use a two conductor shielded cable for balanced operation. with a male 1/4" stereo plug wired as follows: Tip: Signal Hot (Pin #2 on a three pin connector) Ring: Signal ground (Pin #3 on a three pin connector) Sleeve: Shield (Pin #1 on a three pin connector) NOTE: The MA 6 utilizes switching input jacks to automatically make internal connections between each pair of channels: 1&2, 3&4, and 5&6. Whenever a signal is plugged into an odd numbered channel (say channel 1), the next even-numbered channel is AUTOMATICALLY driven INVERTED as long as nothing is plugged into its own input (in this case channel 2). @@See elsewhere for details on using these inputs for bridging channel pairs for increased power output into a single 8 ohm load. 2. **OUTPUT TERMINALS:** Connect the speaker(s) to each of the six channels by means of these screw-type connectors. Be sure to place the speakerwire UNDER the integral washer in the MA 6 terminal to avoid fraying the wire while tightening-and keep the wire insulation close to the screw and trim any excess wire to avoid shorting the outputs together. See elsewhere for details on connecting a speaker to a bridged pair of channels. 3. **AC LINE CORD:** Plug this into a GROUNDED AC outlet of 120 VAC (or 240 VAC if the MA 6 is internally wired for 240V operation). PLEASE NOTE: If you use an adapter to plug the MA 6 into a non-grounded outlet (three-to ADAPTER TO THE OUTLET BY two prong adapter), BE SURE TO SCREW THE GROUND MEANS OF THE COVER PLATE SCREW. 4. **LINE FUSE:** Use only a 15 amp FAST-BLOW (or NORMAL BLOW--NOTSLOW BLOW) fuse, 1.25" long.

such as Littlefuse #3 AG-15, Buss #AGC-15 or equivalent 5. **FAN FILTER:** This washable filter may easily be removed for periodic cleaning by pressing in and twisting 1/8 turn either direction and then lifting it away--perform this feat with the fan OFF, of course. Once the filter is removed, rinse it under hot tap water; use dish soap to cut through particularly stubborn "tav sludge". IMPORTANT: KEEP THIS FILTER CLEAN TO ENSURE PROPER COOLING AND RELIABILITY OF THE MA 6. -- NEVER REMOVE FILTER WITH UNIT PLUGGED IN. @@@@Direct operation. 2. Biamp operation. 3. Bridged operation.

@@@@@@You can use this feature a couple of ways: 1. @@@@2. @@@@This is normally quite easy to accomplish in most rack installations. @@@@Direct, biamp and bridged operation. Diagram 2. @@The high-frequency drivers are run direct from channels 1 and 2. @@@@What this means is that when ever a yellow LED flashes, a musical peak has been quickly turned down to avoid clipping. This allows you to run the amplifier at a higher continuous level, typically about 4dB SPL higher than without a limiter. And that 4dB of increased SPL is the equivalent of a 250 watt amplifier without a limiter. Keep an eye on the LEDs on the MA 6 front panel.

Consistent flashing of the YELLOW LEDs without any of the RED ones lighting up means that you are getting the most SPL out of the amplifier. If a RED LED flashes on, however, it means that the input signal was so great that it has gone beyond the 15dB limiting capability and the MA 6 is near or actually clipping. Consistent flashing of any red LED is NOT recommended: both the clipping and the limiting can become audible and undesirable, AND there is a danger of damaging compression driver voice coils with excessive and prolonged clipping as is the case with ANY amplifier. Ask your dealer, or write to us at the factory, for RAN E NOTE 103, which gives a very detailed discussion of the workings of the MA 6 limiters. ADAPTING THE MA 6 TO YOUR CHANGING NEEDS With six channels to choose from and built-in bridging there are a number of different combinations available to suit your present and growing needs. The nice thing about the MA6 is that you can reconnect it and keep using it instead of losing money on an obsolete, used piece of gear you no longer need. Basically, you can start out with 6 channels at 100 watts or three channels at 300 watts. When the time comes, you can step up to six channels at 300 watts by obtaining another MA 6 and keeping the original. Upgrading to biamped monitors or tri-amped mains becomes easy as well, by simply adding another MA 6 and keeping the original, both taking up only 10.5" rack space.

**ABOUT THE MA 6 AND CIRCUIT BREAKERS...** The MA 6 will easily deliver over 900 watts of audio power, which requires as much as 15 amps of current from the AC outlet 15 amps is not an uncommon value for household and some institutional circuitbreakers, though 20-amp versions are becoming more common. @@An amp that delivers a lot of power drinks a lot of power to do so. @@@@WEIGHT: 44 lb dry Features and specifications subject to change without notice. Diagram 2. @@The high-frequency drivers are run direct from channels 1 and 2. @@@@IF THERE ARE TWO WOOFERS IN EACH BASS CABINET, BE SURE THAT THEY ARE WIRED IN SERIES IF THEY HAVE AN INDIVIDUAL IMPEDANCE OF LESS THAN 16 OHMS EACH.



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