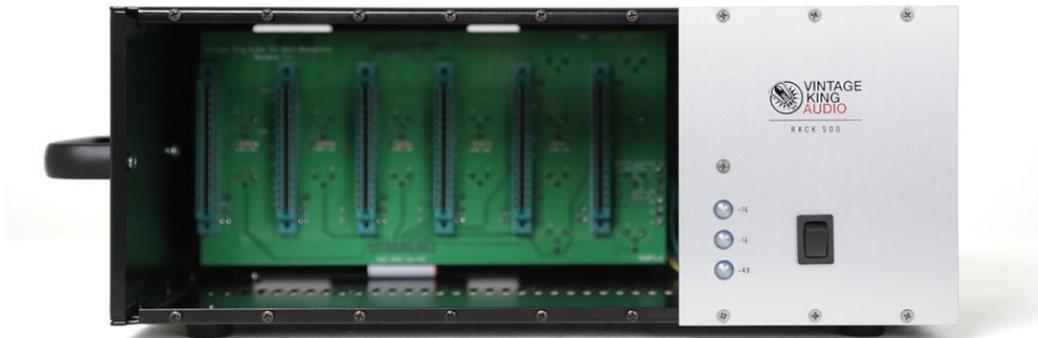


Vintage King Audio RACK500 Owner's Manual



Thank you for purchasing a Vintage King Audio “Rack 500” six slot rack for your 500 Series or compatible modules.

Fusing/mains power set-up.



CAUTION: Always follow proper electrical safety procedures when working on or around mains power! If you have not had proper instruction in electrical safety, please refer any internal adjustments or servicing to qualified service personnel.

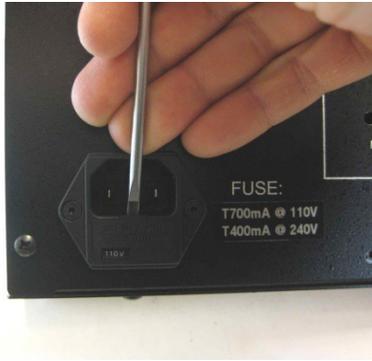
Before applying power: check that your rack has been configured for your mains voltage. In the lower part of the mains IEC connector is the fuse drawer. The fuse drawer has a small window in it that indicates the currently selected mains voltage, either “110V” or “240V”. Racks shipped within the USA will have their mains pre-set for “110V” (110V to 120V); racks shipped to Europe will be set for “240V” (220V to 240V). If it is necessary to change your mains voltage setting, remove the fuse drawer and slide the small printed circuit board sideways out of the drawer, turn it over and re-install it in the fuse drawer. Your mains voltage should now be visible in the fuse drawer window. In the fuse drawer, install the proper fuse value for your mains voltage as listed below. If you have any questions about this procedure, please contact your Vintage King Audio sales associate.

100V: T1.2A, 250V (conversion to 100V requires internal modification)

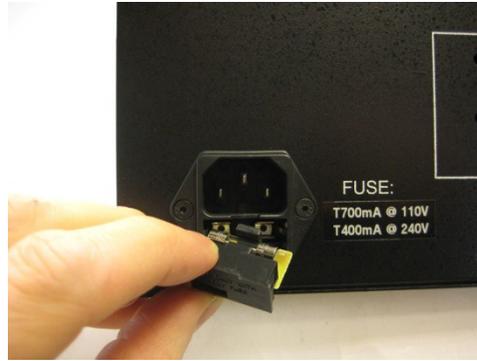
120V: T1A, 250V

240V: T500mA, 250V

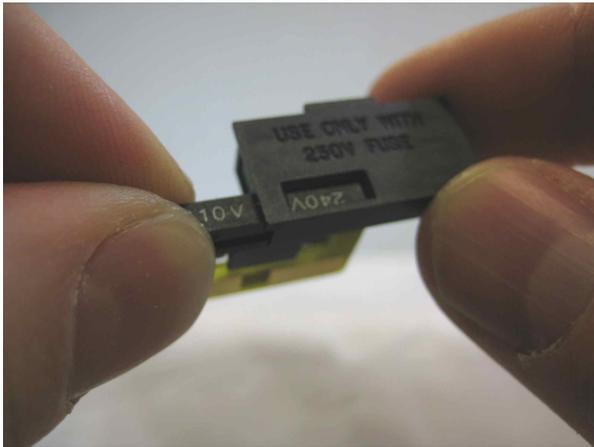
The IEC mains power connector has the ability to select either “110V” or “240V”. The power transformer we use is actually 115V or 230V to operate in either the USA or internationally. Set the jumper to the “110V” position for the USA (110V – 120V, or set to “240V” if your voltage is 220V - 240V. The jumper is located in the bottom of the fuse drawer. See detail on next page.



Opening fuse drawer.



Remove fuse drawer and voltage select card.



Removing voltage select card and re-installing it in the proper position for YOUR mains voltage.

Check to be certain the correct fuse is installed in the drawer as indicated on the rear of your rack. If you aren't sure of the value, call us and we can help.



CAUTION:

It is always possible to use a fuse of a smaller value than the original (if the unit powers up and works, of course), but it is not advisable to use a larger fuse! The fuse is there to reduce the risk of fire in the unlikely event of a short circuit in the rack, however, it will not protect you from electrical shock..

Always power your rack with a three conductor power cord. Using a “cheater plug” (ground lift adapter) to lift the safety ground pin can cause dangerous conditions in the unlikely event that there is a mains wiring problem in the rack.

PSU status LED's.

The power supply has mutual shutdown of +/-16v rails to protect op amps. If power lights fail to come on, power the rack down and remove modules one at a time, re-applying power after each module is removed; check status LED's until the faulty module has been found and removed.

Module installation (not while powered!).

Modules should only be installed/removed when power is 'off'. Doing otherwise can damage certain modules.

Mic preamps should be placed to the left side of the rack to keep as much distance between them and the power transformer as possible.



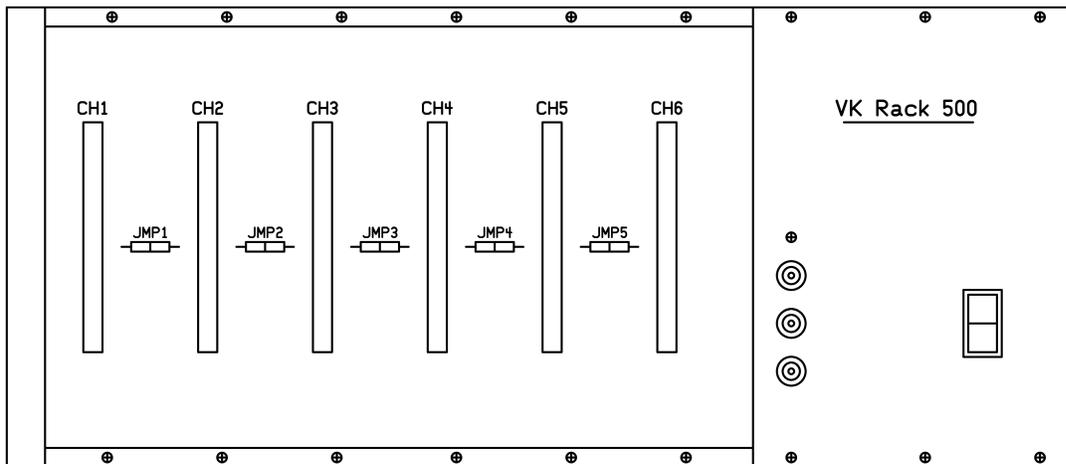
If you are installing modules and you do not understand basic electrical safety, please have a qualified electronics technician perform this step! There is the possibility of coming into contact with mains voltages when working on the rack if it is connected to mains voltage (the rack IS connected to mains for this step).

Important: Use only one hand when touching power transformer (keep the other hand in your pocket)!! Touching a grounded surface could result in a shock. Once again, if you are not comfortable working closely (and safely) with mains voltage, have a qualified electronics technician perform this step.

Under certain circumstances, if it is necessary to install a mic preamp in slot 5 or 6, nearest the power supply, lower hum and noise may be obtained by rotating the power transformer. A qualified technician who is familiar with mains safety should perform this. Loosen transformer mounting bolt and rotate the power transformer until lowest noise position is found then re-tighten mounting bolt.

Compressor Control Voltage Linking:

Most compressors allow two or more modules to be linked for stereo operation. Pin 6 is the designated Control Voltage (CV) pin. The Rack 500 has a 'bus' created by removable jumpers between each connector on Pin 6. These jumpers can be clipped out when configuring your Rack 500 to prevent different brands of compressors from interfering with each other. The jumper looks like a tan (or green) resistor with a single black band around it. Configuration example: Two "Brand A" comps will be installed into slots 1 and 2; two "Brand B" comps will be installed into slots 3 and 4. To prevent problems, the jumper between slots 2 and 3 (JMP2 in Fig. 1 below) should be removed. The jumper between slots 4 and 5 should not be a problem unless other compressors are installed in those locations.



Above: Fig1. Rack 500 Jumper locations.

Current availability per slot:

Total current draw cannot exceed 1.2A per rail, but can be divided up based on module demand.

180mA per slot @ +/- 16V

10mA per slot @ 48V

XLR and DB-25 Connections:

Both XLR and DB-25 connections are available *and in parallel*. DB-25 connectors utilize industry standard Tascam™ pinout

Important: Do not *combine* output signals using XLR/DB-25 connections as a “Y” cable. Yes, it might “work” but could damage expensive modules... not gonna hurt the rack though! Output signals can be safely SPLIT (connected to more than one input), but never combined.

Options:

-Rack Ears (steel)

-Wood Cheeks

-Replacement top and bottom covers should you scratch, strip the threads on a mounting hole or otherwise damage yours.

Installation of Options:

Rack Ear installation instructions:

Disconnect unit from mains power. Remove both top and bottom covers. Remove the handle from the left side of the rack and rubber feet from the right side of the rack. Retain the handle and hardware from the handle and feet. Install the left rack ear using the handle and handle hardware to hold it in place. Install the right rack ear using the rubber feet and hardware to fasten the ear to the rack. Detailed instructions are available on the VK Rack500 product page.

Warranty:

Obvious abuse will not be covered.

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