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## Re: [Elecraft] KAT 500 hookup to IC 7600

[Ron D'Eau Claire Thu, 29 Nov 2012 13:01:33 -0800](#)

Basically all you need to do is this:

Connect DC power to the KAT500

Connect our antenna(s) to the KAT500 (it defaults to Ant 1 and returns there whenever you remove power)

Connect your IC7600 RF out to the KPA500 RF INPUT (probably is already ;-)

Remove the PA Key input to the KPA500 and connect it to one of the two RCA-type PTT RLY jacks on the back of the KAT500 (and no, I have no idea why Elecraft calls KEY in one place and PTT RLY in another ;-). As you probably know, the center and shield in that cable must be shorted together to enable the KPA500. Otherwise, KPA500 is inhibited. This wiring puts the KAT500 in that circuit. A relay inside the KAT500 opens the circuit so the KPA500 cannot be enabled when the KAT500 is tuning. That prevents hot-switching while high level RF power is applied which can damage the KAT500 and cause the KPA500 to fault.

That does it.

Now, the KAT500 does have a TUNE input for those who have Icom rigs using the AH-4 protocol. You'll need to dig into your IC7600 manual for details about hooking that up, but it's optional.

Note that the KAT500, like the KPA500, senses the RF drive power frequency and changes bands accordingly. Furthermore, the KAT500 switches to the settings for various frequency segments within each band since many antennas are not broad-banded enough for one tuner setting to be optimum for the entire Ham band - particularly on the lower frequency bands. This makes resetting almost instantaneously once you have done a TUNE operation and the KAT500 has memorized the antenna selected and the L and C values for each frequency segment. But you \*must\* apply RF for the KAT500 to change to the new band and frequency segment. Usually a single 'dit' is all you need send and the KAT500 is instantly on frequency and ready for power.

73, Ron AC7AC

-----Original Message-----

From: [elecraft-boun...@mailman.qth.net](mailto:elecraft-boun...@mailman.qth.net)

[<mailto:elecraft-boun...@mailman.qth.net>] On Behalf Of [k6...@aol.com](mailto:k6...@aol.com)

Sent: Thursday, November 29, 2012 12:03 PM

To: [elecraft@mailman.qth.net](mailto:elecraft@mailman.qth.net)

Subject: [Elecraft] KAT 500 hookup to IC 7600

I have a new KAT 500 and wish to interface it with my KPA 500 amp and also my IC 7600.

The manual diagrams are a bit vague (for me). Anyone help out?

Allen  
Madison, WI

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