



HAMLINK BULLETIN 002

November 19, 2011, Revised January 4, 2012

The Kantronics KPC3+ TNC, as it comes from the factory, overdrives the deviation (volume level) of the Icom IC2200 to more than 3.5 kHz. An ideal packet signal should be around 2.5 kHz, therefore here is the procedure for re-calibrating the KPC3+.

1. First, follow the setup procedure for Programming the TNC
"CHAPTER6_TNC_Programming" that was supplied on your HAMLINK DISK-3 using Hyperterminal.
2. Access the firmware program in the KPC3+.
3. At the cmd prompt, type CALIBRAT and press ENTER the following screen will appear:
CALIBRATE MODE:
M send mark
R receive
S send space
T send square wave
- Or + adjust XMITLVL while transmitting
X exit
4. If you type XMITLVL at the cmd: prompt the TNC will respond with
XMITLVL 100 which corresponds to 3.5 kHz deviation.
5. At the cmd: prompt, type XMITLVL 25 then press ENTER, and the TNC will respond with
XMITLVL was 100
6. Now type XMITLVL 25 (which corresponds to 2.5 kHz deviation) and ENTER.
7. Verify by again typing XMITLVL and ENTER.
8. The response should be XMITLVL 25, reducing the transmitter deviation to 2.5 kHz.
9. Now type X and ENTER to exit the calibration procedure.

This calibration reduced the number of packet retries and greatly sped up the packet communications for the station. Therefore we recommend re calibrating the KPC3+ to optimize digital communications.

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