

Why should you check it out?

- Once you know the TNC is performing correctly, you can go on to the next step with confidence!
- TNCs can be cranky. If a program does not return them to a suitable state, the whole system may cease to work. You will need to know how to restore it
- You will develop skills which will help you understand and trouble shoot your TNC

First, do a hard reset

A hard reset will change all settings back to the original defaults. From there, you can set the parameters that are needed.

The procedure will change slightly, depending on the model and also the version. Some of the earlier TNCs require a few extra steps.

Here is a sample procedure for a KPC-3 ver 5 (the KPC-3+ is a little simpler)

1. Connect to your TNC with Hyperterm
2. Change the terminal baud rate to 1200 ("ABaud 1200")
3. Turn off the power to the TNC
4. Open the KPC-3 by removing the screws on the side and lifting the cover
5. Locate the Hard Reset jumper, J7
6. Place the jumper on both pins
7. Turn on the power to the TNC
8. You should see


```
CHECKSUM OK
RAM OK xxxK BYTES
CLOCK NOT PRESENT
REPLACE TEST JUMPER
```
9. Turn power off
10. Return jumper J7 to the normal position (one pin only)
11. Turn power on
12. Change the user level to terminal ("INTface terminal")
13. Set the terminal speed to 9600 baud ("ABaud 9600")
14. Set Carrier Detect to internal ("CD int") [Later, this will be changed to software detection]
15. Go to Calibrate mode ("CALibrate")
16. Press T for square wave. Check that TNC Tx light is on – red)
17. Exit calibrate ("X")

Notes on parameters to be set

Terminal speed:

For 1200 baud packet, set the TNC terminal speed to 9600 or higher. A KPC-3, for example, has a maximum speed of 9600. But if you have a KPC-3+ with a maximum speed of 19,200, use the higher speed if your PC can match it.

Carrier Detect:

If your TNC has a software Carrier Detect, it is best to use it! (For example, any Kantronics modem)

You will find it provides more sensitive way than by manually setting the squelch. Paclink/AGW can set this feature in its program, but with Telpac and Airmail, this needs to be set manually.

Do not turn on the software detect feature just yet.

Exercises:

1. Check if you have Hyperterm on your PC. If not, locate it and download it
2. Locate a manual for your TNC. If you don't have one, you can probably locate one on the internet. For example, try <http://www.mods.dk/view.php?ListManuals=tnc>
3. Copy the procedure for a hard reset
4. Follow the procedure on your TNC.
5. Mark any changes necessary on the procedure
6. Keep this updated procedure with your TNC (you may need this out in the field!!)
7. **Deviation:** In a later section, you will set the deviation of the transmitter. Check in your manual how to do this
8. Send a note telling me how many of the exercises you could finish to kb2wf@yahoo.com.
In the title of your email, place your callsign and the Section number

If you have any questions, don't hesitate to ask for help.