

Airmail XMITLVL Fix for KPC3+

To have a well-functioning TNC you need to have your deviation adjusted so your TNC and Radio are in tune. This produces a quality and crisp signal being transmitted instead of a noisy overdeviated signal.

If you use Airmail with a KPC3+ TNC and have now noticed that your signal is very loud and overdeviating then what has happened is Airmail has adjusted the XMITLVL parameter that tunes your deviation for your TNC and Radio. Airmail adjusts this every time the packet client is opened and sets it at 280 which is very hot and overdeviating for most TNC/Radio configurations.

The parameter that makes this change is available in the Packet Module Setup under the Tools/Options/Modules menu in the main airmail program. The setting is "Tx Audio Level:" and is set to a value of 500 by default. However the field is grayed out and you cannot change the value with the TNC value set to KPC3. Also the value in the "Tx Audio Level" field is only half of what the XMITLVL parameter will be set to on the KPC3+ TNC (XMITLVL has a max of 280 on the KPC3+ TNC).

The reason the "TX Audio Level:" box is grayed out is because the KPC3 which is what you have selected in the "TNC type:" field has a POT adjustment for the XMITLVL not a software configuration like the KPC3+. Therefore the value has no effect on the KPC3 so it was grayed out in the Airmail program.

To change the value of the "Tx Audio Level" in Airmail so that it sticks do the following (This document assumes you already know what the XMITLVL parameter on your KPC3+ should be):

1. Open Airmail
2. Click on the "Tools" menu
3. Click on "Options..."
4. Click on the "Setup" button for the VHF Packet Client
5. Change the "TNC type:" field to another TNC that has a software configurable XMITLVL (KAM-XL for example)
6. Now the "TX Audio Level:" field can be edited. Now change the value of this field to be $\frac{1}{2}$ of what the XMITLVL of your TNC should be.
7. Change the "TNC type:" field to "KPC-3"
8. Click on "Ok"
9. Click on "Ok"

Now your XMITLVL parameter for the TNC should be properly set the next time you open the airmail packet client. To verify this:

1. Open the Airmail Packet Client/Module
2. Close the Airmail Packet Client/Module

3. Open Winpack and type "XMITLVL" without quotes and it will display the current value of the XMITLVL parameter which should be your previously determined XMITLVL value.