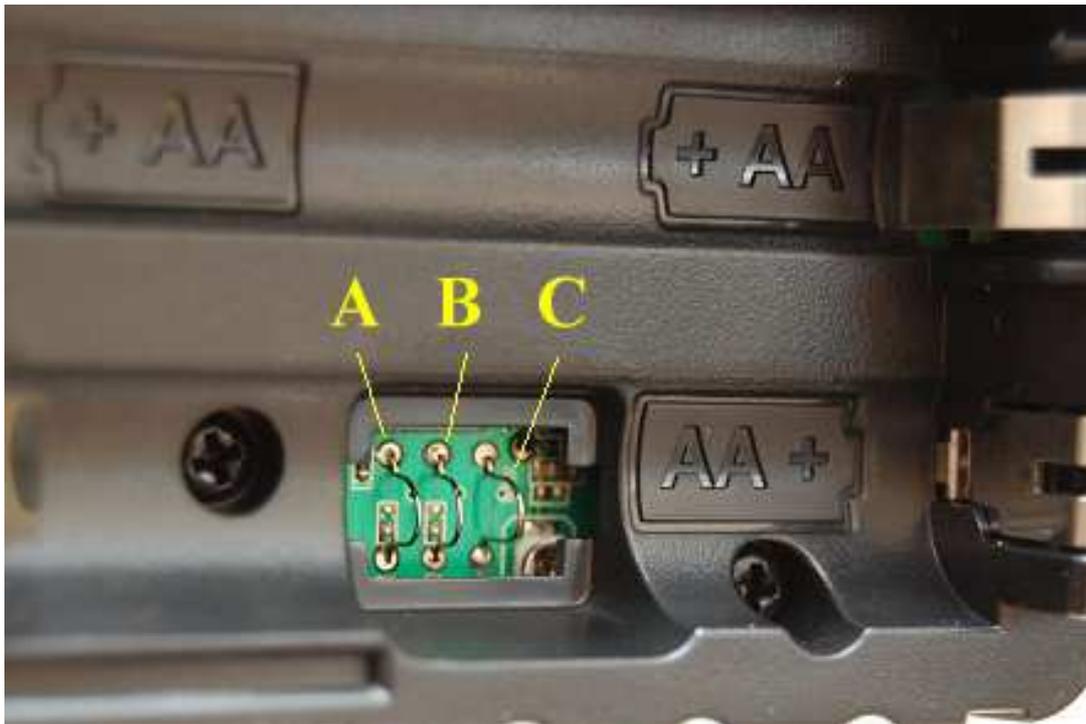


## Intek MT5050 modifications

The following is for educational purposes only and if you undertake these modifications I take no responsibility if any damage occurs! This radio is easily modified by cutting wire links hidden underneath a small piece of plastic inside the battery compartment.

The benefits of modifying the radio are that you can increase the RF output to 4 watts and also enable the voice scrambler. Additionally you can also expand the number of channels available.

The following diagram shows the radio sideways with the base/bottom of the radio to the right.



If you wish to leave the channels as they are but enable the higher power output and the voice scrambler, you need to cut link C.

If you wish to enable the extra power, scrambler and additional frequencies, you need to cut all three links.

Once these modifications are complete, you can transmit 4 watts or 0.5 watts on all channels.

To enable the voice scrambler you hold down the light button on the front panel for a few seconds and you can then select between the 2 scrambling methods using the up/down keys.

When testing the scramblers effectiveness it certainly did a great job of scrambling the audio to the point it's completely unreadable to a casual listener. To make use of this feature you would obviously need two of these radios to be able to decode the scrambled audio.

The additional channels gained are quite extensive, what you end up with is 99 LPD channels, 30 PMR446 channels and 20 PMR/LPD semi-duplex channels.