

The manual tuning in the back menu now acts as the variable frequency control on your machine. The variable frequency control is designed to both help target larger deep targets with a large coil, or target smaller pieces with a small coil. Please read these instructions completely before attempting to operate your newly modified machine, so you get the most from the new variable frequency control.

You must reset your detector to factory defaults before operating:

1. Hold down the power switch on the control box for 5 seconds until the screen indicates it is in reset mode
2. Turn the left-hand display knob until "reset all" is highlighted
3. Turn the right-hand knob clockwise to reset the detector
4. In the menu, adjust the manual tuning to 200
5. Set the new front end gain control on the front control panel to halfway

Please note: The factory reset is not required every time you restart the machine; it is a good idea to do this once we return the unit, as our settings used to test and diagnose machines can be poor in the field.

You have now set the detector to operate approximately the same as a standard detector. This is a good starting point before changing any other settings on your detector.

Please note: Do not use autotune. Instead, slightly adjusting the manual tuning (variable frequency) in the back menu will reduce interference. For example, if you're experiencing interference, you can change the manual tuning value from 200 to 201, 202, 203, 199, 198, or 197. The manual frequency now manages both the noise reduction and also sets the coil pulse width for optimising the coil and target size.

Setting the frequency in the back menu between 0–120 is best for big coils and big, deep gold.

Setting the frequency between 120–180 is best for general prospecting with a medium-sized coil, frequencies between 180–255 are best suited for small coils targeting small gold.

Do not set the manual tuning above 120 with high front-end gain (over halfway). You must test the detector with the coil that you intend to use prospecting by seeing how much you can increase the front-end gain and by adjusting the variable frequency to a higher value. Problems caused by some coils having different electrical characteristics can make the detector lose in performance.

In Fine Gold mode, use standard factory settings and adjust the front-end gain and variable frequency so you can detect a very small item at as much depth as possible. You can continue using enhance or normal timings. A standard 5000 detector is actually manufactured with less input gain to allow Fine Gold to work. For this reason, the GPX 4500 goes deeper than the GPX 5000 when using enhance or normal timings. These upgrades rectify this issue in the GPX 5000 detectors. You should notice improved ground balancing, stability, quietness, ignores most hot rocks, is much more sensitive, and goes deeper.