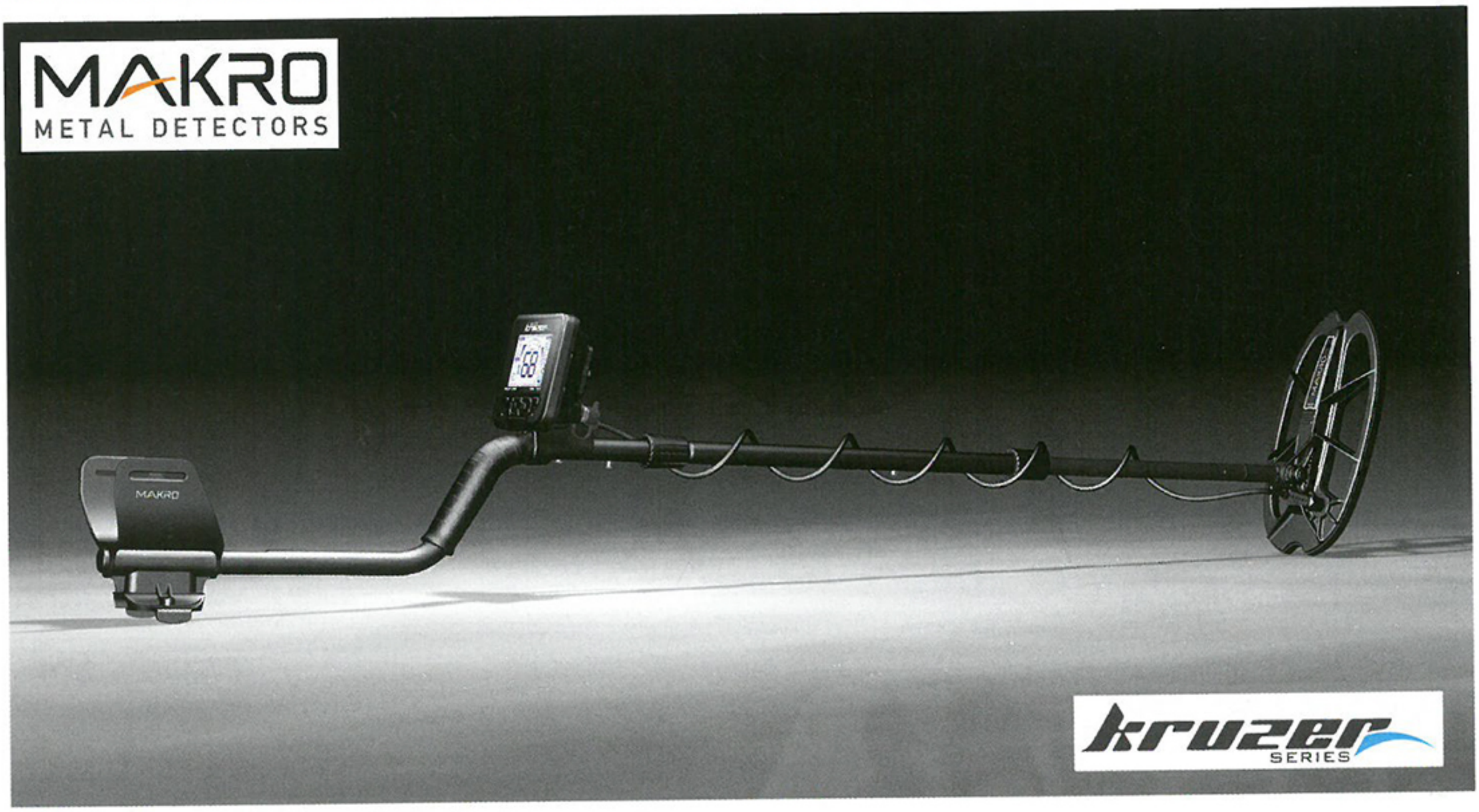
field test | Makro Multi Kruzer Part 2 – Hints, tips & optional coils – Sid Perry



Low conductors in iron infested soil

After owning the Makro Multi Kruzer now for around six weeks, I have been putting it through its paces to see how it really performs in a variety of different conditions and scenarios. I was excited by the way the Kruzer handled itself and following on are some tips and tricks to get the most from this machine.

As I suggested in Part 1 of the Kruzer field test (April issue) the 3 Tone mode looked a great choice of program to use and I've found myself using this 95% of the time. With the Gain set below 90, the machine has a rapid fire recovery speed which is ideal for iron infested ancient sites. This is where the recovery speed comes into its own, as you're able to get the good targets from amongst the iron as there is less chance of it being masked.

At first I found this rather tricky as the T.BREAK was set too high and was eliminating good targets (low conductors). I like to dig everything that isn't iron and after many sessions detecting with the Kruzer I found that the small nails were coming in at 4 so I adjusted the T.Break as follows:

T.Break

Select the 3 Tone mode, then click the settings button, scroll down to T.Break and set Fe to 5 by pushing the +/- buttons. This is one above where the small nails come in and will help stop the falsing of iron. Now everything from 0-5 will give an Iron Tone. Then click select button again and this will highlight Gold/Non-Fe. Choose where you want the low conductor tone and high conductor tone to split. I set mine to 70 so now I get a mid tone from 5 – 70 and a high tone from 70 to 99.

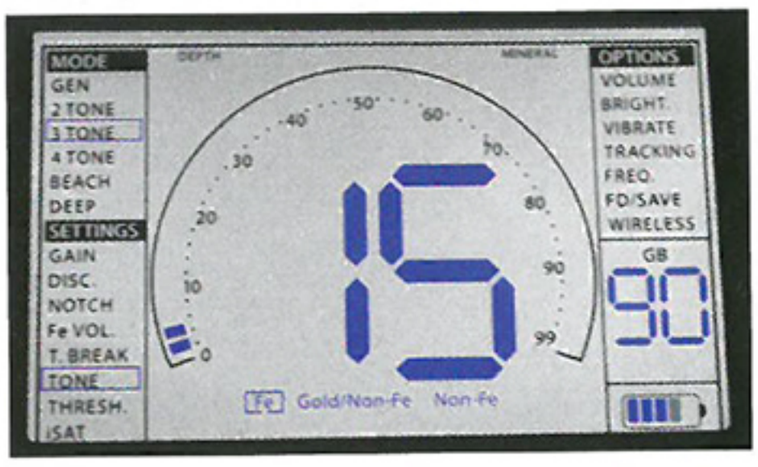
The Fe tone and the Gold/Non-Fe tone are not far enough apart in tone and it meant the low conductors were not jumping out at me enough to distinguish with ease. I suggest these tones are changed to suit your own hearing. Everyone is different but I'll walk you through how to adjust them by adjusting the TONE section.

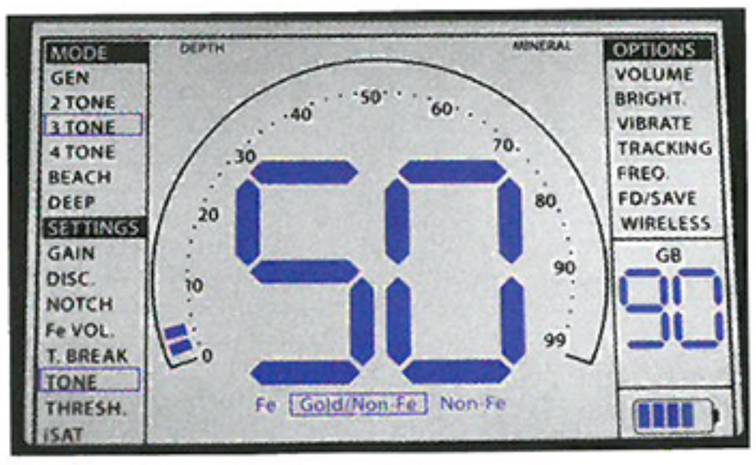
Changing the Tone settings

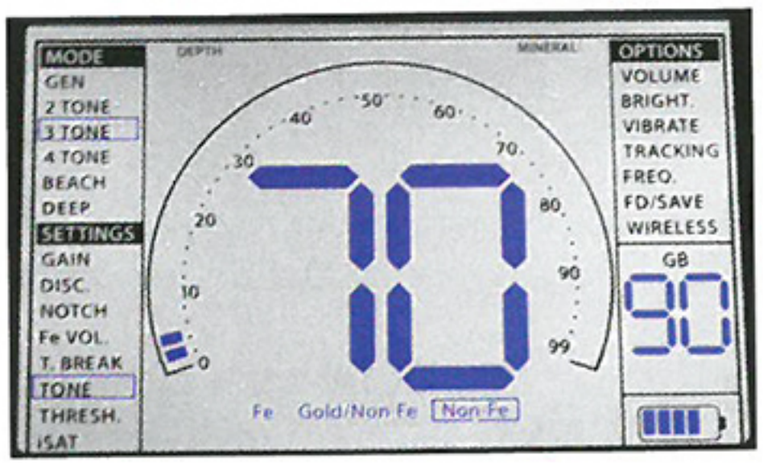
Press the settings button again and then scroll down to Tones. You will notice underneath the target ID numbers there are 3 selections to adjust: Fe, Gold/Non-Fe and Non-Fe.

Fe is your Iron Tone. Have this set to the lowest tone of 15, then push select again and this will highlight the next area: Gold/Non-Fe (low – mid conductors). I found that 50 worked

BELOW LEFT TO RIGHT Screen shots demonstrating how to change the tones







well for me so start there and adjust to suit your own hearing. Once done, push select again and you will highlight the Non/Fe (high conductors), 70 was my preferred setting.

Now by adjusting these tones to suit your personal hearing you will have more chance of picking out the good targets next to iron which will give the low tone at the same time as you receive a good tone.

Here are my preferred settings after many hours in the field:

3 Tone mode (fast)
KHz 19
Gain 89
Disc 4
Notch 5
Fe-vol N2
T-Break 5
Tone, Fe 15, Gold/Non-Fe 50, Non -Fe 70
Isat 0
Vibrate 0

You'll get a faster recovery speed on the ancient sites amongst the iron and be able to find good targets, which would normally be masked when using lower recovery speeds. You will lose a little depth, but it's worth the trade off as on many ancient sites, the land is ploughed and quite often the finds are mixed up with the iron in the top 4-5" of soil.

If you are on quieter ground with less iron and need a little more depth, here are my other preferred settings:

3 Tone mode (deep)
KHz 14
Gain 95
Disc 4
Notch 5
Fe-vol N2
T-Break 5
Tone, FE 15, Gold/Non-fe 50, Non-Fe 70
Isat 0
Vibrate 0

ABOVE Tudor gilded clothes fastener
ABOVE LEFT A selection of finds found with the Multi KRUZER
Photography courtesy Tyler Perry

By using a lower frequency of 14kHz and a Gain of 95 you punch a little deeper. This is extremely handy on pasture and compacted arable land.

Kruzer range of coils

Different sites warrant changing your coil to maximize any machine's performance. There are a few different coils available but the following were my 'go to' coils from the range.

KR18C - 7" (18cm) concentric coil (£114.95)

This coil penetrates a signal into the ground in the shape of a cone. By doing this you have brilliant separation of targets and will winkle desired targets from amongst the nails and unwanted trash.

This worked really well on a busy area of a park that has produced coins in the past. The deeper the target the better the separation as the point of detection gets smaller the deeper it goes. The signals are also a little sharper.

It is nice and light and I can detect all day with no fatigue at all.

The only negative is it may get more effected by the ground than a DD coil on highly mineralised land.

KR40 15.5" x 14" (40 x 35cm) DD coil (£219.95)

Being a DD (Double D) coil it penetrates a thinner band of signal into the ground in a shape of a rounded blade. So you get better ground coverage even at depth. It's also less effected by mineralisation.

This coil works really well when you have just got a new large permission and you want to find the hot areas of occupation. You can cover large areas faster and when you hit a hotspot, switch to one of the smaller coils and detect with a slower swing speed and grid the area.

Additionally it is great for 'worked out' sites where the targets are out of reach for the smaller coils.

This coil is slightly heavier due to its increased size but as I have said above you will achieve a lot more ground coverage.

Makro Multi Kruzer final thoughts

The Kruzer is a great machine straight out of the box, BUT you need to get used to the machine's tones and the iffy signals to get the maximum performance out of it.

This is the same with any machine on the market, they all have more performance available but you just need to learn to understand what the machine is telling you. Many will see this as chatter and been keen to use a machine that is quieter. I like to see this as 'feedback' from the ground and use to my advantage. A lot can be learnt from this feedback, including locating the busier areas of a field.

Once you master the audio especially when on the edge of detection or working around iron you will be pulling targets out of the ground at amazing depths. I have been checking deep iffy signals with other brands of detectors and the Makro Multi Kruzer holds its own.

Please check out the latest software update available on www.makrodetector.com/update-kruzer-metal-detector.html

ABOVE KR18c 7" (18cm) concentric coil. KR40 15.5" x 14" (40 x 35cm) DD coil. Photography courtesy Tyler Perry