



How-to Video

Magnetic Pulser MP6

Transcription

Wello, I'll be demonstrating the use of the SOTA Magnetic Pulser. The latest model is shown here, our Model MP6. Before we get started I just want to draw your attention to our operating manual. Please do remember to read the manual from cover to cover. It's a great manual; has lots of good information, specifications, troubleshooting, and everything you need to know about operating your Magnetic Pulser.



Wall Adaptor

The Magnetic Pulser is powered by an AC to DC wall adaptor. The specifications are 12 volt DC 1.5 amp output, and very important that the polarity is center, or tip, positive. If you have a wall adaptor other than ours, if you are using your own, please remember to have the same specifications. If the polarity is reversed, it won't hurt the unit, but the unit simply won't turn on. If you don't have the correct voltage or amperage settings, the unit may turn on, but will take a long time to charge up. Please either use our wall adaptor or make sure the one that you have has the correct specifications.

What makes our wall adaptor unique, are the blades. For every different country there are different blades that you use to plug the unit into the wall. And so for North America, we have certain blades, for your country it may be different and you can order blades for your country. It's really nice, you can snap these blades out and replace your blades and pop it back into place and you are good to go.

Turning the Unit On

I've already got the wall adaptor plugged in here, and I'll show you the operation of the unit. On the back of the unit, there is a power outlet, and of course you just take the plug, plug it in the power outlet. On the front of the unit there are 2 buttons, a large ON/OFF/MODE button and a little button up here which is actually for an audible feature and I'll demonstrate

that in a moment. The Magnetic Pulser, the MP6, is a 2-speed pulser. When you first turn on the unit, the unit will charge up in Regular Mode. If you hit the MODE button once, the lights will turn green from Regular Mode, to yellow in Fast Mode. Then if you want to turn the unit off, you hold the button down for about 2 seconds and the unit will turn off. If any time when the unit is operating you want to hear a beep to indicate the release of the magnetic field, you hit the audible button, a yellow light will come on indicating it's in audible mode.

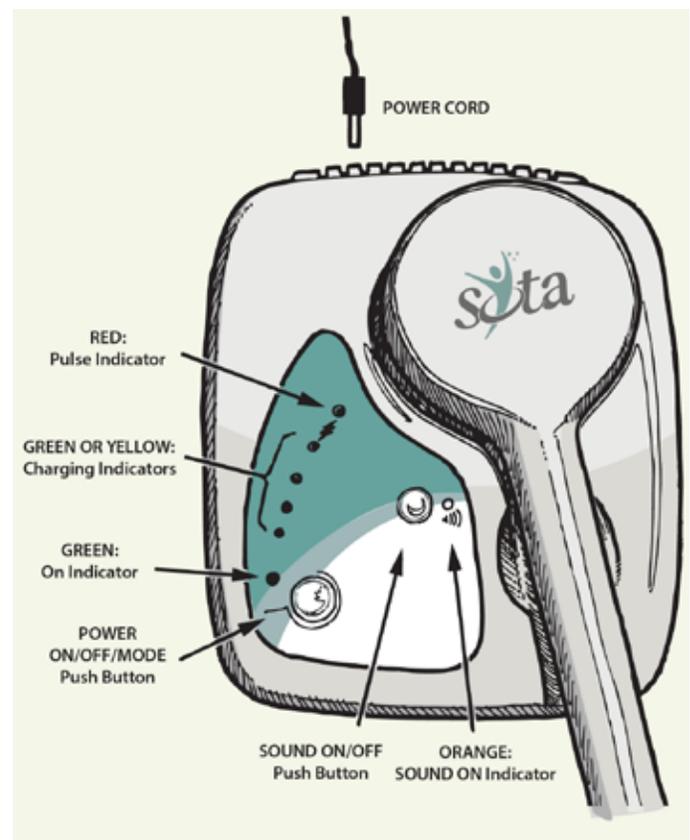
Audible Option

So let's demonstrate that now. Turn it on. Beep. The unit starts up, and you should see a series of green lights building up—the very moment, I just heard a pulse. At the very moment that the pulse has built up to the highest level, a red light will flash. At the moment that the red light flashes, the magnetic field has been released. I will turn on the audible option. You will see an orange light come on. Beep. And there's a beep. So now for those that are visually impaired, you can get an indication each time the magnetic field is released.

Regular and Fast Mode

I'm going to go into Fast Mode. This is Regular Mode, as you can see you have a series of green lights. I hit the MODE button once, and now we are in Fast Mode. As you can see it's pulsing much faster, almost about once a second. The lights have turned yellow, and of course the red light beeps, the red light flashes every time with the beep because it is connected and it will release at exactly the same time.

If you want to go back into Regular Mode, you hit the MODE button. The lights turn from yellow back to green, and we are back into Regular Mode. And this takes about 5 to 6 or 7 seconds to charge up, as you can see it's much slower. Each one has its advantage, and I'll talk about those a little bit later. To turn the unit off you simply hold the ON/OFF/MODE button down for 2 seconds, which I will do now. The unit turns itself off and you are ready to move on to the next step.

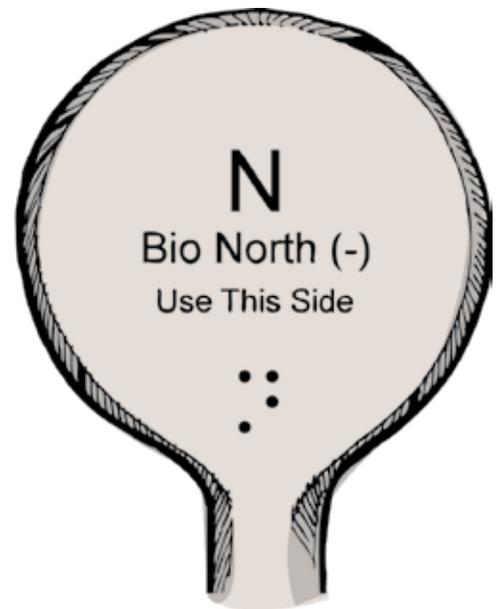


The Magnetic Field

I'd like to talk about the magnetic field produced by the Magnetic Pulser. Our Magnetic Pulser produces a rather unique magnetic field, we call it a DC spiked or time-variant magnetic field. It's not like an AC field which is alternating which gives you a frequency. Ours is like a spike which is generated; for instance if you are in Regular Mode, every 5 to 7 seconds you'll get a spike. And that spike is the output of the magnetic field. In Fast Mode that spike happens maybe every second. It's the same type of magnetic field, it just simply happens faster and a little bit less intensity and I'll talk about the differences in the modes in a moment. What's important to remember is that the output of the Magnetic Pulser is a spike. That spike is 6000 Gauss in intensity measured at the face of the coil and it lasts 2.5 milliseconds, or 2.5 thousandths of a second. Now this is the coil, this is where the action happens. There is a coil of wire in here and the magnetic field is generated within this coil.



Every magnetic field has a polarity. What's unique about our DC magnetic field is that the polarity remains on the same side of the paddle and doesn't change. The SOTA logo side is actually the South Pole. On the other side, we've labelled it intentionally North or Bio North (-), the minus pole. Because our field is a DC magnetic field that side will remain as North. That North or Bio North is the same as the Earth's North Pole. A compass, if you were to take a compass every time it releases a pulse, it will point to the north of our hand paddle the same way in which a compass points towards the North Pole of planet Earth. Now don't take a compass close to our Magnetic Pulser because you could demagnetize the compass. We will talk about how to know when the Magnetic Pulser is giving a field a little bit later on.



As I mentioned it's 6000 Gauss in Regular Mode. And that is at the face of the coil. Magnetic fields drop off at either quarter decay or even as I mentioned the inverse square law or inverse cube law, and that just means the magnetic field drops off faster as you get out further away from the face of the coil here. So if you double the distance, the actual output

may be a quarter or less. So you need to have high magnetic Gauss in order to have a deep penetrating field. We measure about a hundred Gauss out to about 9 inches, and it's shaped somewhat conical on both ends, equal on both sides. So you will have it this side and as well on the other side. In the Fast Mode, it is about 2,500 Gauss at the face, so we have a little bit lower output and we can measure 100 Gauss out to about 7 inches. The magnetic field itself you can't feel it, you can't taste it, you actually can't see it, so it's actually invisible. And I'll show you ways in which you can test to make sure your Magnetic Pulser is actually giving off a field.

Unit Timed Session

As I mentioned before, our Magnetic Pulser is a two-speed pulser, it's Regular Mode and Fast Mode. In Regular Mode it's the highest output 6000 Gauss at the face of the coil. It takes approximately 5 to 7 seconds to build that charge up and the unit will count 255 pulses making one session, and that session will then last 255 times 5-7 seconds about 20 to 30 minutes. In Fast Mode it takes approximately 1 second to build a charge, and we count 1400 pulses, 1400 seconds, and it translates to about 20-30 minutes (some MP6 units have 1600 pulses). So the session then will be the same for both, but in Regular Mode you have higher output but less pulses for that 20 minutes to 30 minutes. In Fast Mode you have a little bit lower output but far more pulses per that 20-30 minute session. And that's something that you can use depending on what you want to do with the unit.

North Pole or South Pole?

Now every magnetic field has a polarity, North and South polarity. On our Hand Paddle, on the SOTA side with the SOTA logo is actually South Pole polarity. And on the opposite side we've indicated North, Bio North or minus. The polarity is constant on the one side because it's a DC output so that will never change, it will stay North. And we see North as more of a calming side, the South is more stimulating. So for most applications we will always use the North side against the targeted area.

The Magnetic Pulse

Now the magnetic field, some people, extremely sensitive people may be able to feel the magnetic field. I certainly can't. The magnetic field comes off in a conical shape; it's exactly the same on both sides, its identical North and South on both sides. And as I've mentioned before in Regular Mode, 6000 Gauss, we can measure it out to about 9 inches. So how do you know the magnetic field is being delivered?

When I turn the unit on, and I go into Regular Mode, I have the little indicator beep that comes on and tells me the pulse has been released. You might actually feel a little movement in the coil. What happens is that the magnetic field is being generated, there is a coil of wire in here, and it's contracting very rapidly. There is lots of power being created here, and that

contraction makes the paddle move slightly. On some paddles, and we try to keep this as quiet as possible because we have plastic, and we have a metal coil inside. There may be a bit of movement between the coil and the plastic, you may actually hear a little ticking sound in the paddle, you may not. It's okay one way or another, some people like it some people not but we actually fill it with silicone. We are trying to keep it as quiet as possible. You may have one that you can hear; you may have one that you don't hear. It is perfectly normal. But when the magnetic field is released most people can't feel it, so how do we know that it's actually happening? Well I have a little demonstration set up here for you.

Demonstrating the Magnetic Field

I am going to be turning on the unit in Regular Mode, which gives me the highest Gauss output. I am going to turn on the audible indicator so you can hear every time the pulse is released. And what I have here, I have made a coil of wire, with a little LED light in the end. There are no power connections, there is no battery involved. It's just simply a coil with a light. What I'd like to demonstrate is the magnetic field coming off; the magnetic field will interact with this coil and generate electricity. It actually generates microcurrents of electricity. That's one of the features of a moving magnetic coil, our magnetic coil moves that spike and will generate electricity. Let's see if we can generate electricity right through my neck. So I'm going to turn the unit on. I'm going to go into audible mode so you can hear every time 5-7 seconds it will release a pulse. I'm going to put the North side; and it wouldn't matter if I use North or South, they are both equal. And I'm going to take my coil, and hopefully you will see the light come on, on every pulse. There it is there. There it is again. If I bring it very close to the coil, the light will be brighter because it is more intense of a magnetic field. As I bring the coil away from the paddle the light will be slightly diminished and there you go. And that indicates that the strength of the magnetic field has tapered off. Now if you don't have a coil of wire around, you can demonstrate the magnetic field with a standard pair of pliers. You need to use a pair of pliers that's actually made out of steel so it is attracted to magnets or else this demonstration will not work. So just take an ordinary pair of pliers and bring it up maybe half an inch away. Every time it releases a pulse it's going to pull the pliers closer to the paddle, there it is again, it's a very strong field. So what's happening here is the magnetic field is attracting the metal in the pliers and there we are; the sensation of it, it's very, very strong. If I go into Fast Mode, this is simply faster but a little bit less strength. And that's what the whole difference is between the modes ... one is stronger and fewer pulses while the other is faster and little bit less strength.

Testing the Unit is Working

Now the magnetic field that comes off here will also interact with any other metal. So you can try this demonstration against a large piece of metal maybe from the side of an oven or maybe fridge, something like that. Just make sure that it's a magnet type of steel and not aluminum, aluminum will not interact like this. Now several years ago I demonstrated putting

a quarter inch washer on the paddle and I flew that washer across the room and people may say they tried here and it didn't work or it just slides off. I just want to mention that in that time I actually had an open coil where you could see the coil of wire and I was able to put the washer inside the coil. Because we seal this coil up, a lot of energy, a lot of electricity is being generated here, for safety reasons we encase this all in plastic. So you don't get the same effect of that washer shooting out because I can't put it in the coil where I previously demonstrated but the magnetic field is still the same. It's just the placement of the washer is slightly different. So that's why I use these other demonstrations here, so you can see very clearly that it truly is happening.

The Paddle Heats Up

During the operation of the Magnetic Pulser, I'm just going to turn it off here, hold it down for 2 seconds. Beep, it turns off. Now when the unit is operating, a tremendous amount of energy is being delivered to this coil. This is going to get hot, and you just want to make sure if it gets too hot that you don't hurt yourself, that you don't burn yourself. And what's nice about magnetic fields is that they basically go through anything. They will go through cloth and material and that type of thing like it's not even there. So if it gets too hot, simply use it through a shirt, something like that; or put a dish towel over it, some people even put a sock over it just to keep the hot surface away from you. But the fact that it gets hot is important, it tells you that it is actually working. So that is very important, if it's not getting hot there is a problem with your unit.

Of course after maybe two or three sessions it just may simply need to cool down, so just turn the unit off and let it cool down.

End of Timed Session

When the unit is operating, one thing I need to say after the session is done; the unit will go into sleep mode, which means that it will sit there and wait for about 30 seconds for you to restart. If you don't restart, it just turns everything off. So just keep that in mind after the unit shuts down, that it's just sitting there waiting for you to do some action, just turn the unit off and/or just leave it.

Cautions

Now the magnetic field will go through most materials, but when it hits metal it could be dispersed. So some of the things which you need to be aware of is that you don't want to be putting the magnetic field against an area where you may have an implant, a metal implant. Even though the implants may not be magnetic, like they could be titanium, there may be some interaction. You may get heat built up in that area, you may even get a bit of electrical generation, microcurrents, and it may be uncomfortable. So we generally say if you have implants, don't use them in that area. Definitely don't want to use it if you have any kind of

pacemaker, or any kind of electrical implant. We don't want to have any interaction between the magnetic field and your sensitive pacemaker or other sensitive electrical equipment, so please don't do that.

Warnings

Another thing to make sure of, to keep the magnetic field away from things like your credit cards. It will annihilate a credit card in one, one, one zap. And also your computer hard disk, we did a test, we wanted to see if it truly would; and we took a hard disk against the paddle and 2 pulses and that hard disk was dead. So keep it away from your computer. When I say keep it away; a foot, two feet away, nothing is going to happen. The magnetic field at that point is so tiny it's not going to interact. So just don't put your credit cards close, keep them let's say a foot or two away.

Homeopathic remedies, keep those away from the magnetic field, there could be an interaction. So again just keep that from your wallet too. Make sure you're not pulsing the magnetic field on your pocket and you have your wallet in there because that will destroy all the magnetic strips on your credit cards, and your license and that type of thing. Other than that, the Magnetic Pulser will operate very nicely for the sessions, for you, and I think you are going to find that it's going to be very useful in your endeavours and thank you very much and happy pulsing.

Note: This video and the transcript are intended to complement the product manual that accompanies your unit. Please be sure to read the complete product manual before using your unit.