Here's a few mods, tips, & tricks I did to my WEPS

Posted by MODiFiEDZ - 01 Apr 2012 04:35

Here is a video I uploaded to MODiFiEDZ YouTube channel about some modifications I did to clean, lube & protect the sharpener as well as consistently get mirror polished edges & even hair whittling sharp edges everytime. There's some more Wicked Edge sharpening videos on my channel if you'd like to check them out.

[video size=100 width=640 height=360 type=youtube]

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Re: Here's a few mods, tips, & tricks I did to my WEPS

Posted by mark76 - 06 May 2012 10:44

ROFL!!

Hahahah!

I never thought I'd learn so much about magnetism on a forum about knife sharpening!

The magnet has left the house already. It was too dangerous for the electronics and other stuff. When I made the photograph of the magnet, I was about 50 cm removed from it, and still it drew sparks from the flash light! I didn't dare to get it in a radius of 1 meter from a computer, a phone or even my stereo.

It was quite cheap, however. I bought it here . That shop is in Germany, but I imagine it is sold for similar prices in the US.

So I cannot try any new tricks to remove metal filings. What I did try was the duct tape (3M cellotape), which had too little power.

. The magnet came in a small plastic bag and if I removed the bag, the metal filings simply stayed where they were relative to the magnet. That is, they ended up on top of the magnet

What probably would have worked was to pack the magnet in a larger plastic bag, use it and then turn the bag inside-out before removing it from the magnet.

I now simply do what I always did to prevent metal filings from getting into the pivot of a knife and to get the WEPS clean: a wet cloth and, if necessary, some tape over the pivot.

But please get a magnet and experiment more! (The shop has a 160 kilogram magnet on sale tight now) And please do found all your findings theoretically. Love it!

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Re: Here's a few mods, tips, & tricks I did to my WEPS

Posted by AnthonyYan - 06 May 2012 11:41

Wow, actually, the fact that it drew sparks from your LED flashlight at 50cm...! That sounds scary. I own a lot of electronics, so I think my reaction would be the same as yours: Sell it away. ^_^;

Sincerely,

--Lagrangian

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Re: Here's a few mods, tips, & tricks I did to my WEPS

Posted by PhilipPasteur - 06 May 2012 13:51

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www.supermagnete.de/eng/project348

Removing iron filings from magnets from the German site.

I use some small but powerful magnets on the bottom of the rods on MY WEPS. They do attract very fine filings. I have to think that it is better on the magnet than in the rod pivots

I can ususlly just rub the fine powder off with my fingers, or sometines a ScotchBrite pad and a brisk fast rubbing motion.

Phil

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Re: Here's a few mods, tips, & tricks I did to my WEPS
Posted by AnthonyYan - 06 May 2012 16:10

Hi PhilipPasteur: Thanks for that link

I didn't know that some of the rare earth magnets are sensitive to heat (it can destroy some of their magnetic alignment). That link you posted suggests warm wax kneaded in your hand first, because hot wax on the magnet directly would harm it! Pretty interesting

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Re: Here's a few mods, tips, & tricks I did to my WEPS
Posted by MODiFiEDZ - 06 May 2012 16:22

When experimenting with these strong magnets, guys, please be careful, don't hold a really strong magnet & try to remove shavings out of the pivot area. Imagine a small 20lb magnet pulling your finger into a razor sharp blade because you held it too close. Once you get the magnet close enough to steel it will yank it out of your grip before you know it. Now a 38kg magnet is 83lb's, even more dangerous. I also got a magnet stuck on a brand new blade & it was impossible to pull the magnet off & I had to slide it off the edge of the blade which made a very noticeable long scratch in my brand new just sharpened knife.

The best way to keep shavings out of your pivot while sharpening is to tape up the pivot area.

I was going to order some bigger magnets from that German site but surprisingly they do not ship to USA. They have almost every other country on their list except America.

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Re: Here's a few mods, tips, & tricks I did to my WEPS
Posted by PhilipPasteur - 06 May 2012 17:44

Here is a place that ship to the US

www.kjmagnetics.com/products.asp?cat=10

They have about anything you would want in magnets. I have purchased from them several times.

Any magnet will lose its magnetic properties if you get it too hot. Heat scrambles the carefully aligned poles of the molecules that give it the force. Of course the Common N type of Neodymium magnets can get pretty warm without losing too much of their magnetism.

From the site above:

"If a magnet heated above its maximum operating temperature (176°F (80°C) for standard N grades) the magnet will permanently lose a fraction of its magnetic strength. If they are heated above their Curie temperature (590°F (310°C) for standard N grades), they will lose all of their magnetic properties."

If you go to the SH grades their max operating temp is 302ºF (150ºC). I have soldered wires to these to make balance charging harnesses for Lithium Ion batteries. I don't think warm to even hot (liquid) wax would bother them in small amounts and when removed quickly.

www.kjmagnetics.com/products.asp?cat=167

Phil

BTW these are what I am using for the WEPS:

www.kjmagnetics.com/proddetail.asp?prod=D34-N52

They are small, but at N52 pretty strong for their size. They will not fly to your knife blade from 6 inches away, and you could pull them directly off of the blade without sliding them, if they ever got attached. They just sit on my paddle rods right above the pivot and attract lots of very fine metal shavings.

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Re: Here's a few mods, tips, & tricks I did to my WEPS

Posted by AnthonyYan - 06 May 2012 23:47

Hi PhilipPasteur: Thanks for the info and those links!

I used to look at magnets from www.unitednuclear.com, but clearly the selection from www.kjmagnetics.com is much better.

But even if I do play with magnets, I still don't have a nice way to address the non-magnetic abrasive dust which comes off of the sharpening stone.

Sincerely,

--Lagrangian

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Re: Here's a few mods, tips, & tricks I did to my WEPS

Posted by PhilipPasteur - 07 May 2012 08:30

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I take the arms of periodically and soak them in hot water with dish washing liquid in it. I then blow the joints out with hot water from my sink sprayer. I have a tooth brush that I dedicated to joint cleaning, but after the soak and rinse I don't see any residue, so I have not had to brush out the joints with the brush. I then blow the water out of the joints with compressed air and let them sit on paper towels. I let them sit overnight if I am done sharpening for the day. I then spray them with WD-40, wipe them down with paper towels to remove the excess and lube the joints with "superlube". I wipe off any excess, and I am ready to use the arms.

This will get them pretty darn clean. How often you do this is directly proportional to the level of OCD that you are afflicted with

Depending on how much I sharpen, I go through this process once every week or so. If I was sharpening for 6 to 8 hours per day, I might do it every day.

Phil

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Re: Here's a few mods, tips, & tricks I did to my WEPS

Posted by wickededge - 09 May 2012 10:32

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That was AWESOME, thank you!

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Re: Here's a few mods, tips, & tricks I did to my WEPS

Posted by Billabong - 07 Nov 2012 02:33

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leomitch wrote:

Yes Mark, some interesting ideas. The magnet is a must for me, what an excellent idea that is. Mark, I am just about to send you a PM...give me a few minutes.

Leo

Has anyone tried some fridge magnet material, cut to suit the location?

Easy to wipe clean of filings.

Excuse me if this has been discussed already or a stupid idea.

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