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Momentary D Cell Mag Switch Mod

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08-25-2005, 09:02 PM #1

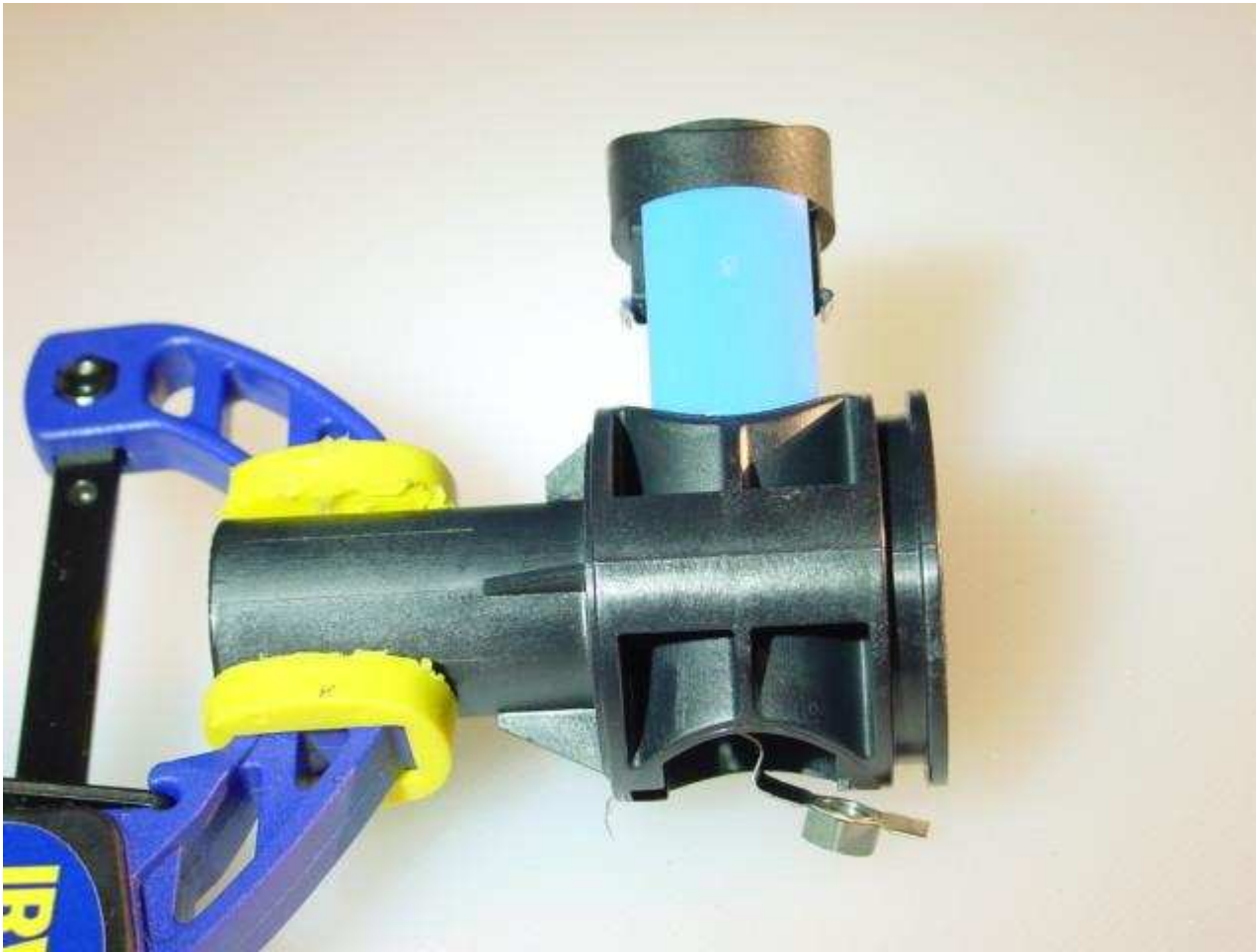
Sway
Flashaholic*

Join Date: Aug 2003
 Location: North Carolina
 Posts: 1,518

Momentary D Cell Mag Switch Mod

This is a quickie on how to mod the Mag D cell switch to momentary so it can be used with a nFlex/uFlex and other drivers that require a signal to access the functions of the (UI) User Interface

Remove the switch from the body of the light, use the same Hex wrench to remove all of the parts from the bulb post. Then press up on the bottom of the switch, the switch core should pop out of the top.



Carefully separate the switch core by pulling on the black top half and the blue bottom part.

This is how the internal switch parts go back together...Well just in case 🤖



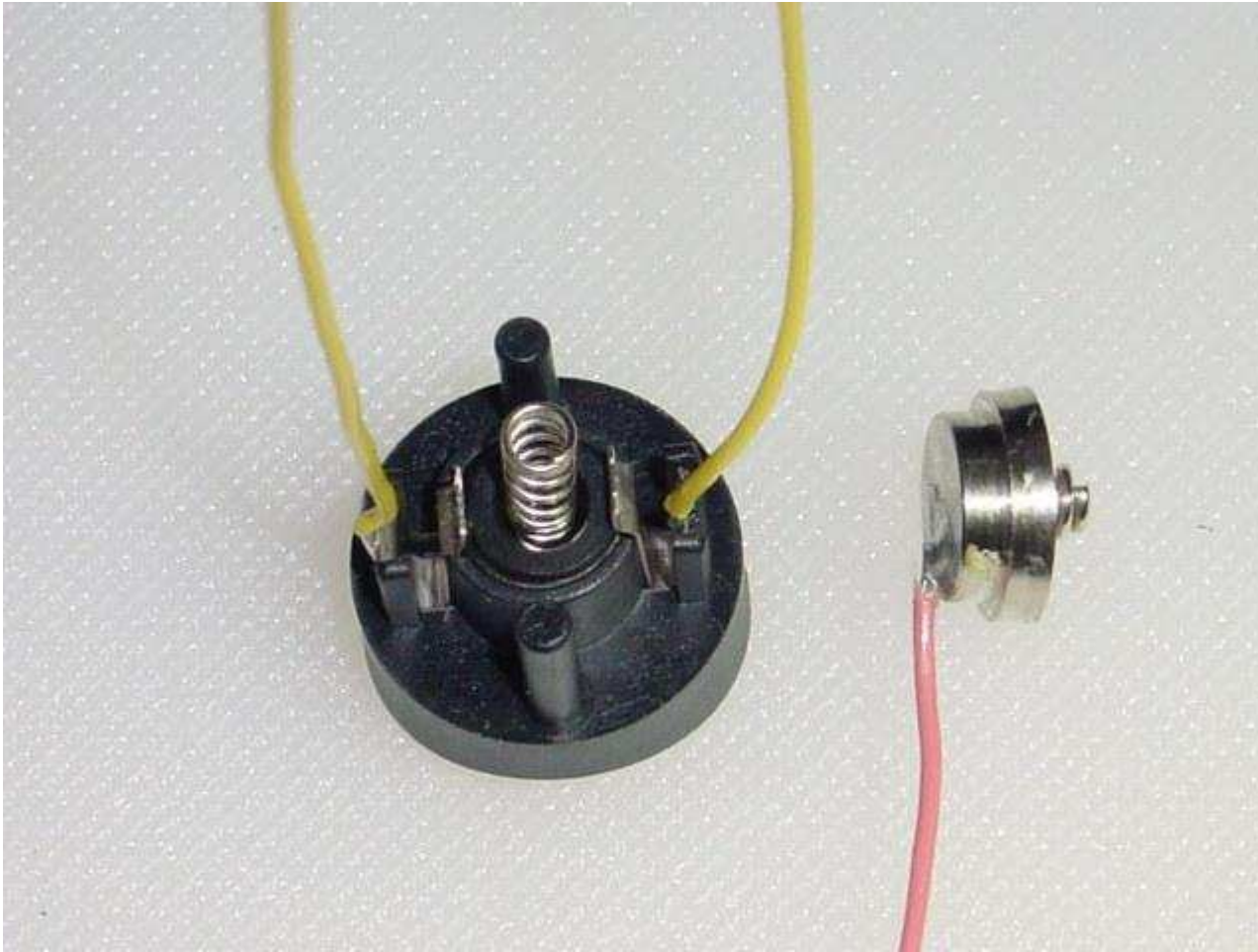
Find the two pieces in the top half of the switch one part meets the rubber boot cover, the part below it is what needs to be modified by cutting the outside ribs off so the switch no longer clicks. I use a hobby knife "razor blade" to trim them off. This will allow the switch to cycle up and down in the momentary mode with out clicking, locking into the on/off mode.

This is what the trimmed down part looks like.



Pull out the two switch connectors, cut the back one down even with the switch so it will no longer make contact with the positive battery spring slug and solder a small wire (24 AWG or smaller) to the inside of it and then do the same to the front connector, it doesn't need to be cut down.

Punch out the positive battery spring slug on the back of the switch housing and solder a wire to it laying flat and you should end up with something that looks this 😊



Slide the switch back together, drill a channel through both sides of the bottom of the switch "Blue Part" and thread the switch wire and positive + wire through.



Line the wires up and pull them through the front of the switch while pushing it down.



Snip off the excess ground strap, solder the negative power supply wire to it and feed it up through the bulb post.

Bottom view



When your done the switch will be isolated from the power path to the board and should look something like this.



Make sure to check all connections with a DMM

Trim down the bulb post to accommodate the driver you are using, secure it in place with epoxy and your done 😊

Later
Kelly

Last edited by Sway : 03-23-2006 at 05:36 PM.



08-25-2005, 09:19 PM

#2 

Ginseng 
Flashaholic*

Join Date: Feb 2003
Posts: 4,382

 **Re: Momentary D Cell Mag Switch Mod**

Nifty little mod Kelly,
And great pictures of the switch innards too. Thanks!
Wilkey



08-26-2005, 07:34 AM

#3 

HaulinLow 
Flashaholic

Join Date: Sep 2004
Location: North Carolina, USA
Posts: 297

 **Re: Momentary D Cell Mag Switch Mod**

I enjoy reading these "technical manual" posts even if I don't own the required equipment for the mod. I always learn something and its cool to see someone else's work. Thank you for taking the time to capture your process and helping people out here.



08-26-2005, 08:13 AM

#4 



jtice 
Flashaholic

Join Date: May 2003
Location: West Virginia
Posts: 6,664



 **Re: Momentary D Cell Mag Switch Mod**

Great writeup Kelly!
Took me a few minutes to figure this out the first time I had to do it.

This should help out alot of ppl here on CPF.



08-26-2005, 12:21 PM

#5



wquiles
Flashaholic*

Join Date: Jan 2005
Location: Texas, USA, Earth
Posts: 2,939

Re: Momentary D Cell Mag Switch Mod

You even added more photos to your initial post - awesome !!!

[img]/ubbthreads/images/graemlins/goodjob.gif[/img]

Will



08-26-2005, 12:59 PM

#6



greenLED
Flashaholic

Join Date: Mar 2004
Location: getting there
Posts: 9,987

Re: Momentary D Cell Mag Switch Mod

Just added to my favorites! Cool stuff! Thanks!

Just a point of clarification for us mod-impaired: Could you please show what you mean when you say: "Snip off the excess ground strap, solder the negative power supply wire to it and feed it up through the bulb post." I see a black wire in the pic, but can't figure our where/what the ground strap is :scratch:

I suspect this is one of those things that I'll understand while I break... I mean, build something.

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Last edited by greenLED : 08-29-2005 at 02:08 PM.



08-26-2005, 01:20 PM

#7 

.308 
Flashaholic

Join Date: Feb 2003
Location: Brentwood, TN
Posts: 330

 **Re: Momentary D Cell Mag Switch Mod**

Hi greenled,
The ground strap is what you see at the bottom center of picture #1. It is a metal strap with a hex nut. The 5/64" set screw goes thru this hex nut and into the flashlight body to create the ground circuit. In picture #7 the upper strap portion has been cut off and the black negative wire has been soldered to it.

Here is an old pic I found that shows the ground strap on the shop table to the right of the switch.



08-26-2005, 01:42 PM

#8



greenLED
Flashaholic

Join Date: Mar 2004
Location: getting there
Posts: 9,987

Re: Momentary D Cell Mag Switch Mod

Just to double check my understanding: I should cut the long part of the ground strap.

:rubshands planning an nFlex mod: [img]/ubbthreads/images/graemlins/grin.gif[/img]

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Last edited by greenLED : 08-29-2005 at 02:07 PM.



08-26-2005, 02:05 PM

#9

.308
Flashaholic

Join Date: Feb 2003
Location: Brentwood, TN
Posts: 330

Re: Momentary D Cell Mag Switch Mod

Yes, cut the long part. The short part will fit back into the switch. I would cut it just before the first bend. What you should end up with when done is a flat strap with a hex nut in the center of the strap.



08-26-2005, 02:45 PM

#10



greenLED
Flashaholic

Join Date: Mar 2004
Location: getting there
Posts: 9,987

Re: Momentary D Cell Mag Switch Mod

You guys are awesome!! [img]/ubbthreads/images/graemlins/thanks.gif[/img]
Now I'll have to come up with an excuse to go to Target and get a nice copper 2D Mag.
[img]/ubbthreads/images/graemlins/wink.gif[/img]



08-26-2005, 03:37 PM

#11

.308
Flashaholic

Join Date: Feb 2003
Location: Brentwood, TN
Posts: 330

Re: Momentary D Cell Mag Switch Mod

Sway is awesome. What I know about this mod came from him. Thanks to Sway's help I built a 2C Pewter nflex with a UX1K that I love. Thanks for the pics/tutorial Kelly.
Good luck greenLED.



08-26-2005, 05:07 PM

#12



Sway
Flashaholic*

Join Date: Aug 2003
Location: North Carolina
Posts: 1,518

Re: Momentary D Cell Mag Switch Mod

.308 to my rescue again, thats the second time this month thanks for the pic
[img]/ubbthreads/images/graemlins/bowdown.gif[/img]

Later
Kelly



08-26-2005, 06:20 PM

#13



IsaacHayes
Flashaholic

Join Date: Jan 2003
Location: Missouri
Posts: 5,788

Re: Momentary D Cell Mag Switch Mod

Kelly, you way works and might be easier for some, but you could save one wire coming out and just solder a wire from the bottom switch contact to the bottom of the ground strap. Then you place the wire from the top of the switch contact to the correct spot on the circuit board. (since the other spot on the circuit is already tied to ground) I hope I'm making sense.. It

might be hard for some people though to solder that short of a wire and work everythign back together though...

Mag C switch is a bit different. I'd be interested in your thoughts on that. The C switch connection tabs go straight to the battery + (old mags do, not sure about new).



08-26-2005, 07:48 PM

#14



Sway
Flashaholic*

Join Date: Aug 2003
Location: North Carolina
Posts: 1,518

Re: Momentary D Cell Mag Switch Mod

Isaac,

I though about what you said in the other thread I wasn't aware that one side of the switch on the board was already grounded so it's starting to sink in now, see you have taught me something today Either way will work, I have a few more I need to build up soon and I'm going to give it a spin and see how it works out because this mod is by no means written in stone and I greatly appreciate your input.

Thanks!
Kelly



03-23-2006, 01:49 AM

#15

aosty
Flashaholic

Join Date: Oct 2005
Posts: 335

Re: Momentary D Cell Mag Switch Mod

bump

bookmark



03-23-2006, 02:13 PM

#16



greenLED
Flashaholic

Join Date: Mar 2004
Location: getting there
Posts: 9,987

Re: Momentary D Cell Mag Switch Mod



aosty!

I lost this pictorial with the migration, but it sure helps! I have a certain disassembled Mag-D switch that I had no idea how to put back together or wire for a mod. Can you believe how long I've been thinking about this mod? Waiting on more parts and george80's FatFlex.

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Last edited by greenLED : 03-23-2006 at 02:15 PM.



03-23-2006, 09:11 PM

#17



Neg2LED
Flashaholic*

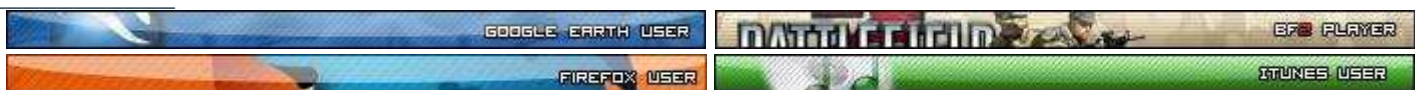
Join Date: Apr 2004
Location: great southern land
Posts: 1,285



Re: Momentary D Cell Mag Switch Mod

GreenLED: if you take a look at [Icarus's Mag2DNflex mod](#), that might help aswell. I made a copy of it!

--neg



| ??x 1.25 Keylights | McGizmo KL1/Aleph 1-Cell | 3w Luxeon Solitaire - aquiring new batts | Osram Dulux Mini |
 | Quest minimag clone w/CS LED | Mag2D nFlex LuxIII/6AA NiMh Mod (Blue body, white LED) | User 4798 |



03-23-2006, 09:36 PM

#18



greenLED
 Flashaholic

Join Date: Mar 2004
 Location: getting there
 Posts: 9,987

Re: Momentary D Cell Mag Switch Mod

Yes! That's another bookmark I lost!



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All times are GMT -4. The time now is 02:16 PM.

---- Silver

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