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Installing Limit/Homing switch and Emergency Stop button Add-on Kit for CNC 200mm Coil Winder.

Version 1.0

17th June 2015.

This documentation applies for use of the software on the following machines:

- CNC 200mm Coil Winder MK2

<http://www.ukcnc.net>

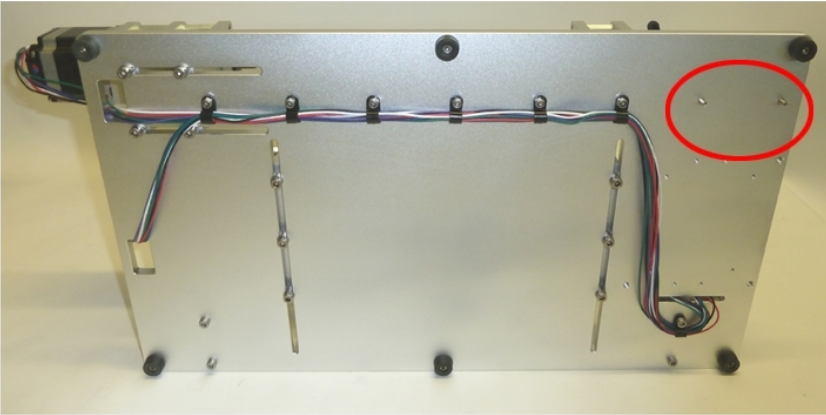
Installing Kit.

CNC 200mm Coil Winder Limit/E-Stop Add-on Step 1



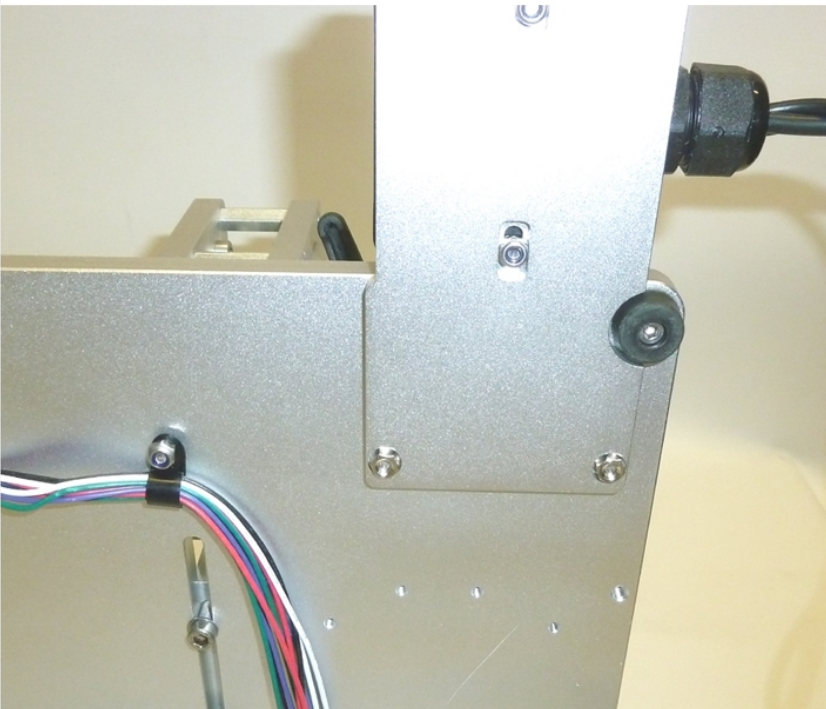
The Limit/Homing Add-on kit should contain the parts shown above.

CNC 200mm Coil Winder Limit/E-Stop Add-on Step 2



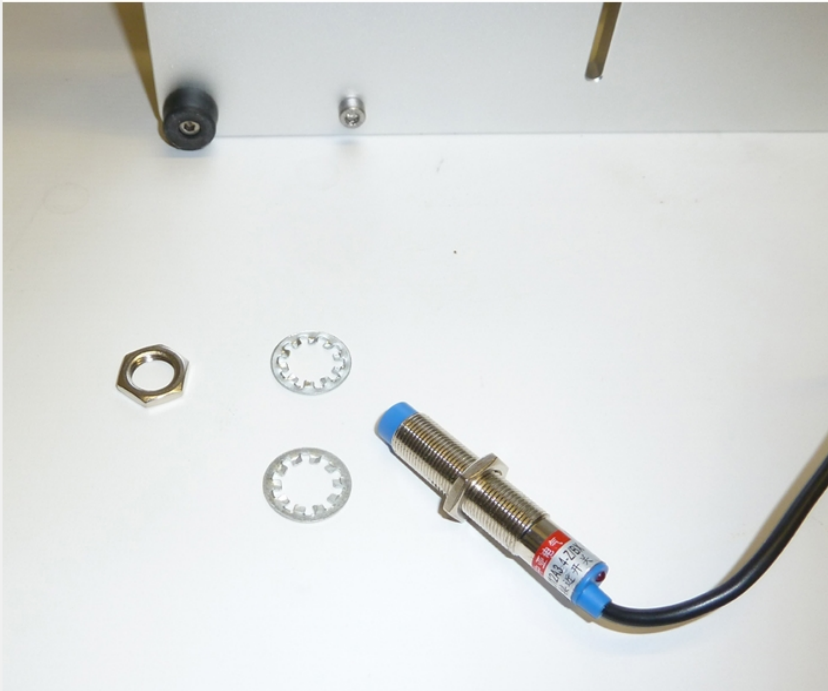
Underneath the base plate make sure the 2 M4 bolts are accessible. You may have to move the wires as shown

CNC 200mm Coil Winder Limit/E-Stop Add-on Step 3



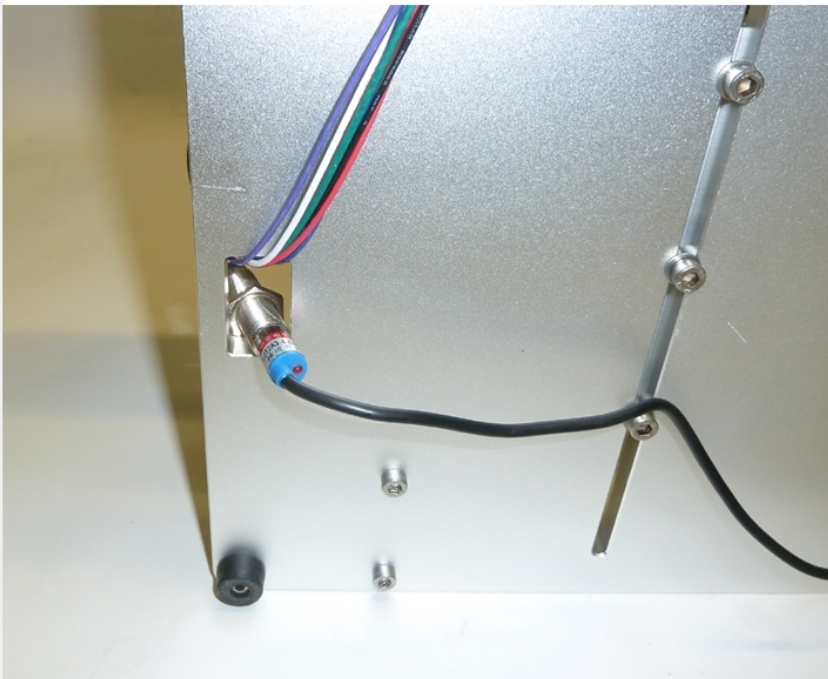
With the 2 x M4 extended nuts, fix the emergency stop plate into place and do up tight.

CNC 200mm Coil Winder Limit/E-Stop Add-on Step 4



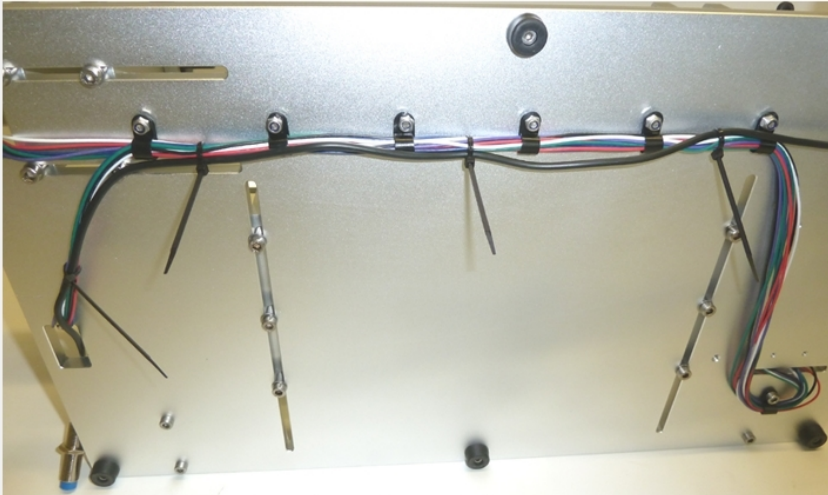
Take the limit switch with the longest cable to the left of the base plate and remove the nut and washers as shown

CNC 200mm Coil Winder Limit/E-Stop Add-on Step 5



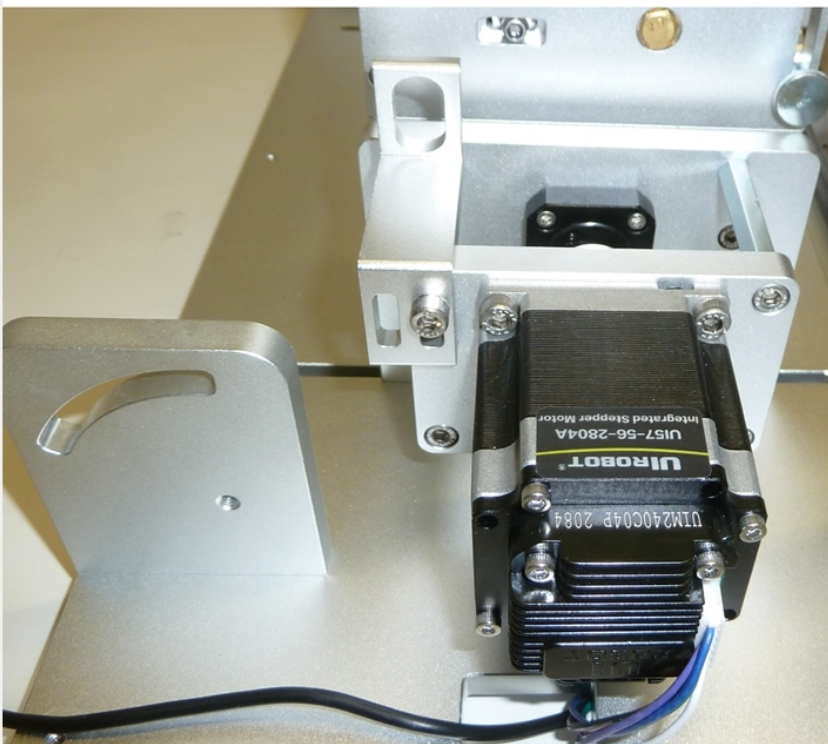
Thread the Limit Switch through the hole next to the feeder motor.

CNC 200mm Coil Winder Limit/E-Stop Add-on Step 6



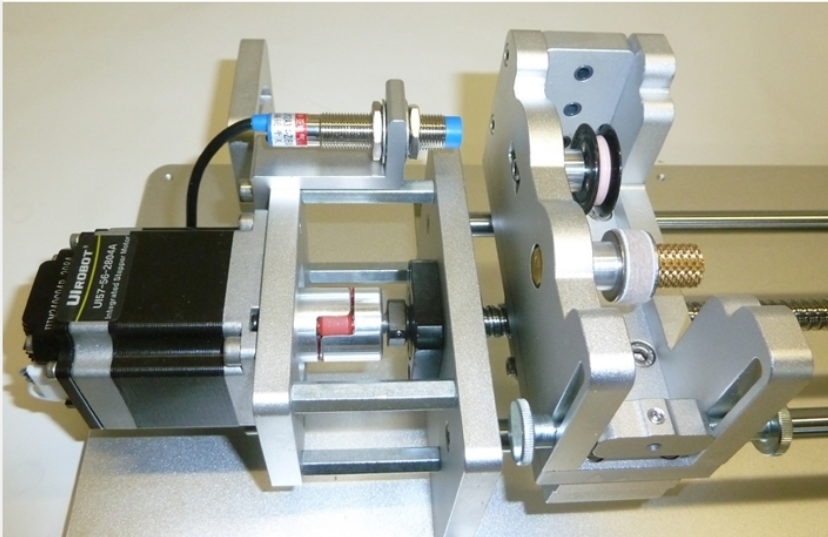
Cable tie the wire along the existing wires and snip off the ends when done up tight.

CNC 200mm Coil Winder Limit/E-Stop Add-on Step 7



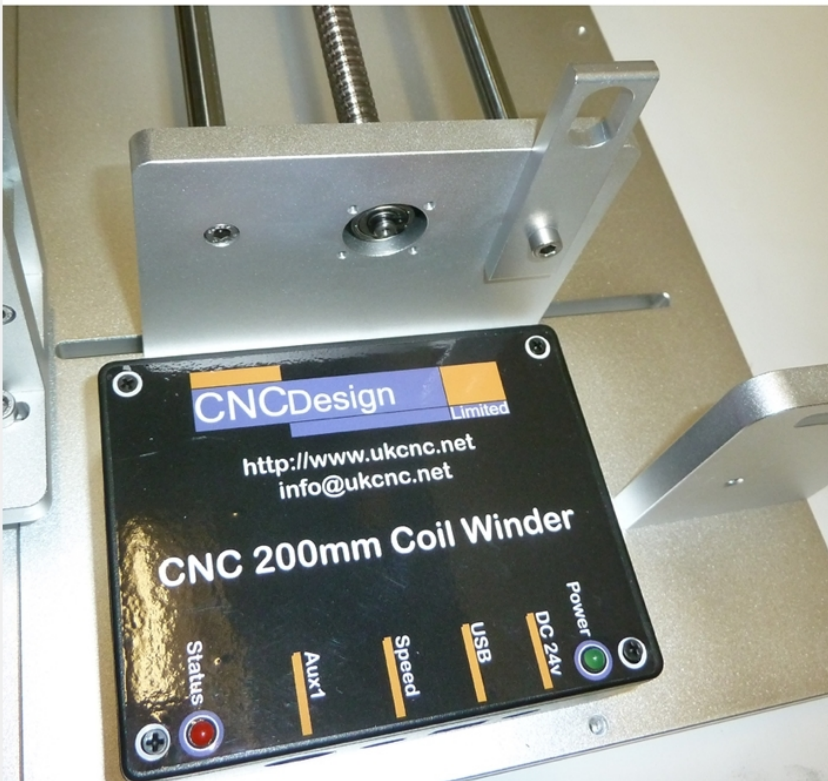
Bolt in the Zig Zag bracket with the M5 x 25mm bolt

CNC 200mm Coil Winder Limit/E-Stop Add-on Step 8



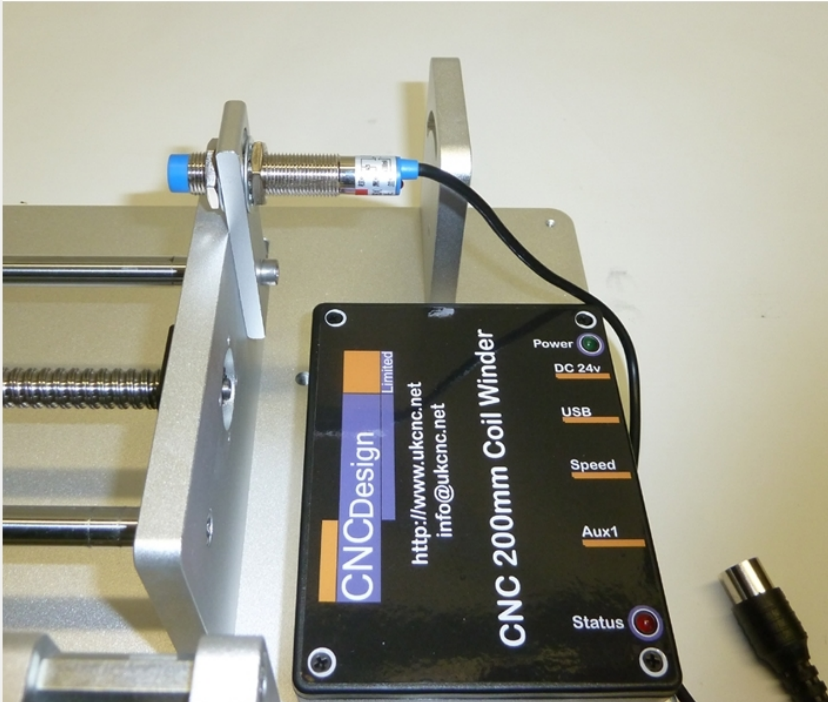
Attach the limit switch to bracket as shown. You can adjust it later, so roughly mount where you feel is right.

CNC 200mm Coil Winder Limit/E-Stop Add-on Step 9



Attach the straight bracket with the M5 x 20mm bolt on the right side of the feeder.

CNC 200mm Coil Winder Limit/E-Stop Add-on Step 10



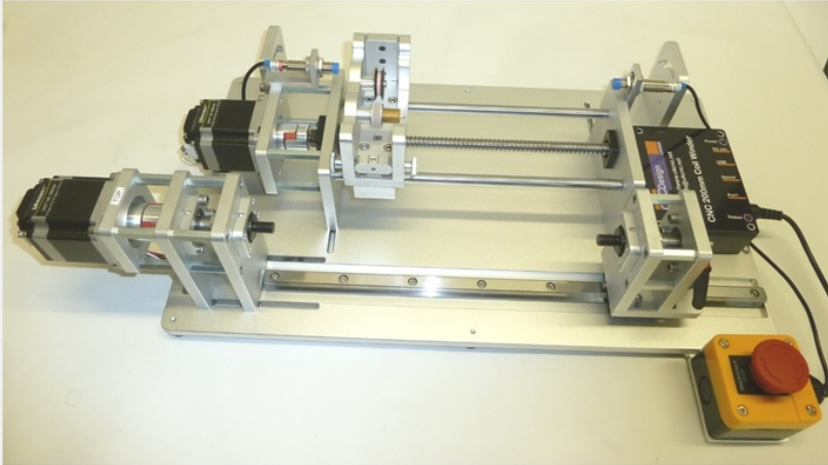
Attach the limit switch as shown, securing the washers and nut. Again you can adjust these later.

CNC 200mm Coil Winder Limit/E-Stop Add-on Step 11



Plug in the 5pin Din plug as shown. It can only be inserted one way.

CNC 200mm Coil Winder Limit/E-Stop Add-on Step 12



And that is it completed !

CNC 200mm Coil Winder Limit/E-Stop Add-on Step 13

CNC Design Ltd CNC Coil Winder for ARM Controller V1.0 2015

Automated Coil Winding | Standard Script Engine | Manual Winding Mode | Settings/Diagnostics | Keyboard Mapping | Import Tools | Pickup Scatter Winding Beta | Firmware Upgrade

Please do not touch these settings unless you know what you are doing

Settings

Current Config: 200mm Coil Winder

200mm Coil Winder | Mini Coil Winder | Auto Detect | Backup

Bobbin Motor

Frequency: 26.66666666 | Resolution: 0.0025 | SPBR: 1600 | Feeder Jog Speed: 5000 | Bobbin Jog Speed: 80 RPM

Feeder Motor

SPFR: 1600 | BSP: 4 | Send True DDS | Send Raw DDS | Keep Alive

Limit Switches Installed | Emergency Stop Installed | Reverse Bobbin Motor | Set Default Startup: Automated Coil Winding Standard Bobbins | Save

Diagnostics - This has been included for support reasons and generally you do not have to worry or even need to know the outputs being displayed.

DB Out	Bobbin Motor Freq	FBD	Feeder Motor Freq	FFD
01100011	5333.3333312	53.333333312	133.33333328	1.3333333328
DD Out	BFQ Raw LSB	BDFQ Raw LSB	FFQ Raw LSB	DFDQ Raw LSB
99	533333	5333	13333	133
Raw RPM Feedback	BFQ Raw MSB	BDFQ Raw MSB	FFQ Raw MSB	DFDQ Raw MSB
Calculated RPM	BCP	Base Speed	FCP	
	640000	5333.3333312	16000	

The ARM® Cortex® M4 processor

Fun Stuff: 2 | 500

Firmware: Firmware

Change Colours: Background | Foreground | Border | Reset to Default

Info: <http://www.ukcnc.net>
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In the software make sure you tick the boxes as shown above under the Settings/Diagnostics tab and Save.