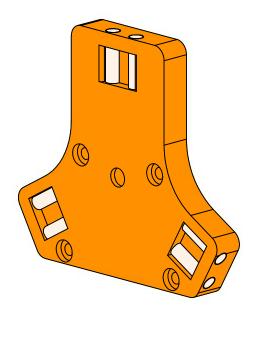


Optional. These dowel pin holes can be pre-drilled out in a drill press with a 5/32in. (3.97mm) drill bit for an easier press fit.



Use the pin insertion fixture to hold the Carriage Front Plate at the right angle for pin insertion.



surface.

В

ITEM NO.	DESCRIPTION	QTY.
1	Carriage Front Plate	1
2	M4 Dowel Pin, 20mm long	6
3	Pin Insertion Fixture	1



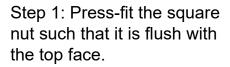
SCALE: 1:1 SHEET 2 OF 7

В

Α

Press-fit each dowel pin into each socket until it is flush with the





Note that the outer square nut will have a slightly looser fit.



Step 2: Loosely install both screw components such that they engage the threads. The set screw should not peek out into the center hole. The buttonhead screw will be tightened later.

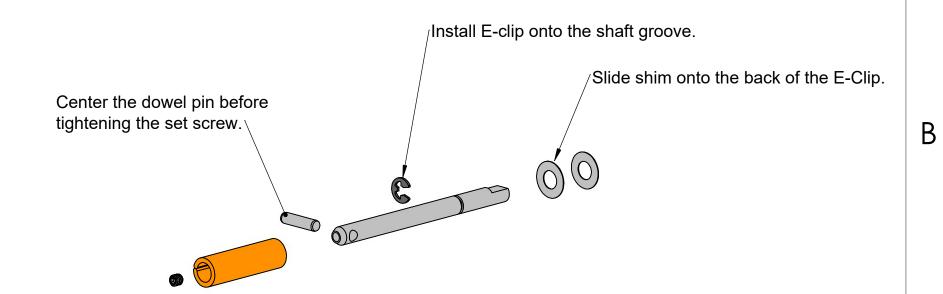


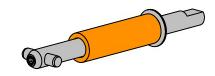
В

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ITEM NO.	DESCRIPTION	QTY.
1	Tool Lock Pulley with Insert	1
2	M3 Square Nut	2
3	M3 Buttonhead Screw, 6mm long	1
5	M3 Set Screw, 10mm long	1

Pulley Assembly			
<u></u>	(i) BY	Created by: Joshua Vasquez	last edited: 9/29/2020
		SCALE: 1:1	SHEET 3 OF 7



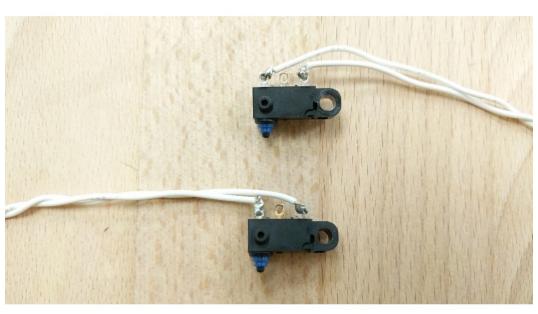


Α	

В

ITEM NO.	DESCRIPTION	QTY.
1	Twist Lock Shaft	1
2	M3 Dowel Pin, 12mm long	1
3	M3 Set Screw, 3mm long	1
4	E-Clip	1
5	M5 Shim, 0.2mm thick, 10mm OD	2
6	Twist Lock Spacer	1

Twist Lock Assembly			
Created by: last edited: Joshua Vasquez 9/29/2020			.ast samsa.
		SCALE: 1:1	SHEET 4 OF 7



(Optional: twist the wires into two pairs for easier cable management.)

Solder two wires to the outer ends of each limit switch with the wires bent in the directions shown above. Note that the direction is different for each limit switch!

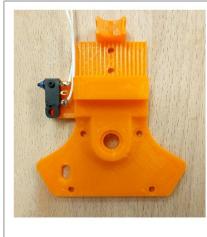
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ITEM NO.	DESCRIPTION	QTY
1	900mm of 26AWG stranded white wire	4
2	Dust Proof Limit Switch	2

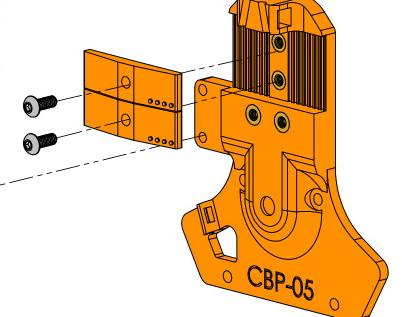
Wiring Installation			
Created by: last edited: Joshua Vasquez 9/29/2020			last saltsa.
		SCALE: 1:1	SHEET 5 OF 7

В

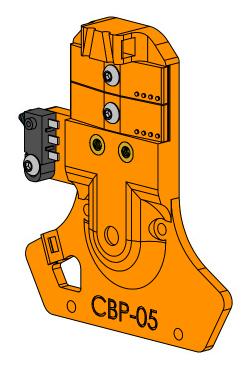
) -



Select the limit switch with wires bent towards the button.



Exploded View



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Assembled View

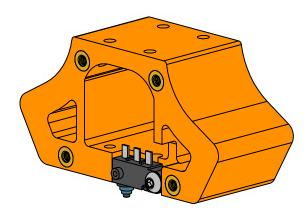
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В

ITEM NO.	DESCRIPTION	QTY.	
1	1 Dust-Proof Limit Switch		
2	M3 Buttonhead Screw, 8mm long	3	
3	Belt Clasp	2	
4	Carriage Back Plate with Inserts	1	

Carriage Back Plate Assembly			
Created by: last edited: Joshua Vasquez 9/29/2020			
		SCALE: 1:1	SHEET 6 OF 7

Select the limit switch with wires bent away from the button. Route the wires as shown above.



Set all completed subassemblies aside for installation on the CoreXY frame at a later step.



ITEM NO.	DESCRIPTION	QTY.
1	Dust-Proof Limit Switch with wires installed	1
2	M3 Buttonhead Screw, 8mm long	1
3	Carriage Center Plate	1

Carriage Center Assembly			
Created by: last edited: Joshua Vasquez 9/29/2020			
		SCALE: 1:1	SHEET 7 OF 7

В