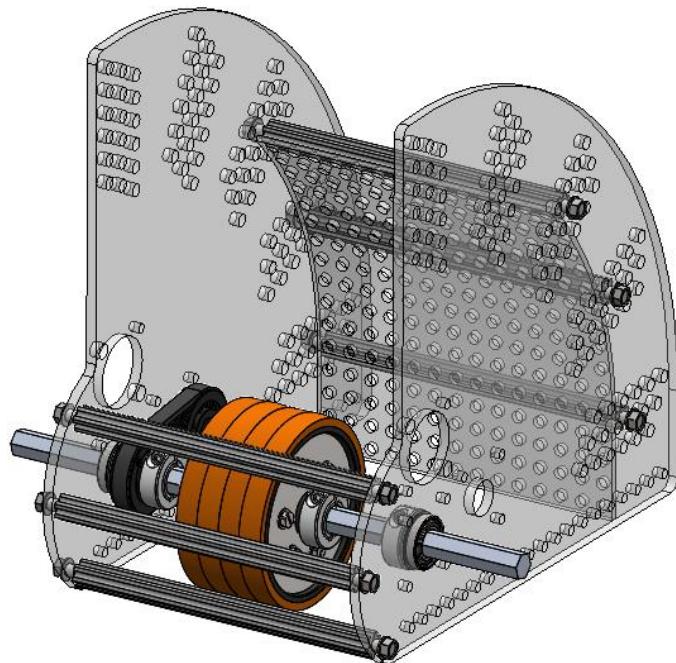




Launcher in a Box

(am-5780)
Assembly Guide



Revision #	Date	Author	Purpose
0	12/18/2025	E. Scime	Original Document

P. Yeung

1/6/2026

Reviewer Name

Date Reviewed

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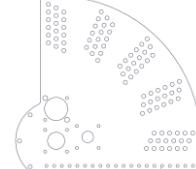


Parts & Tools

Recommended Tools List

Component	Part #	QTY	Photo
3/8in Nut Driver	am-3877	1	
5/16in Nut Driver	am-1273	1	
5/32 Ball End Hex Driver	am-2751	1	
1/8 Ball End Hex Driver	am-2750	1	
1/2in-9/16in Combination Wrench	am-2746	1	
3/8" Impact Nutsetter	am-2755	1	
Drill	N/A	1	

Parts List (Main Kit)

Component	Part #	QTY	Photo
4" Stealth Wheel, Orange	am-2647_orange	2	
Launcher in a Box, Side Plate	am-5779	2	



Churro, 1/2" x 17.80", 6005A Aluminum	am-3101-1780	4	
Screw, Thread Forming, 1/4-20 x 750	am-1310	16	
4" Stealth Wheel Flywheel Plate	am-4019	2	
Screw, Thread Forming, 10-24 x 750	am-1123	12	
Cable Tie, 8", 50lb tensile, Black	am-1552_black	100	
Collar Clamp	am-1526	4	
Bearing, 1/2" Hex Bore	am-2986	2	
Shaft Stock, 1/2"W Hex, 1' Long, 7075 Aluminum	am-2291-1	1	
Belt, Timing, HTD, 5mm Pitch, 9mm Wide, 45T	am-5209_45T	1	
Pulley Half, 24T	am-3403_half	4	
Spacer, 500 Hex Molded 0.125 inches long	am-3948-125	1	
Launcher in a Box, Hood Plate	am-5796	1	



Parts List (CIM Hardware Kit)

Component	Part #	QTY	Photo
Washer, 5/16"ID, Flat, hardened	am-1009	2	
Spacer, 500 Hex Molded 0.100 inches long	am-3948-100	1	
Spacer, 500 Hex Molded 0.125 inches long	am-3948-125	1	
Spacer, 500 Hex Molded 0.250 inches long	am-3948-250	1	
Machine Key, 2 x 2 x 10mm	am-1121	1	
Adapter Shaft, 8mm, 500 Hex, 1" Length	am-0588_long	1	
Ring, Retaining External Push-On 8mm ID	am-0033	1	
Screw, SHCS, 10-32 x 0.5" w/ Nylon Patch	am-1744	2	

Parts List (Kraken Hardware Kit)

Component	Part #	QTY	Photo
Washer, 5/16"ID, Flat, hardened	am-1009	3	
Screw, BHCS, 10-32 x 0.375", Thread Lock Nylon Patch	am-1588	1	
Washer, #10 Steel	am-1026	2	
Shaft, Adapter, Kraken Spline, 500 Hex short, Plated	am-5687_short	1	



Washer, Fender #10 x 1.000" OD	am-1575	1	
Motor Spacer	am-5263	1	
Spacer, 1/2 OD x 8mm ID x 1/2" Long	am-1751	1	
Screw, SHCS, 10-32 x 1" w/ Nylon Patch	am-1763	2	

Parts List (Falcon Hardware Kit)

Component	Part #	QTY	Photo
Flat Washer, M7 (Falcon Spacer)	am-1543	2	
Washer, M7 x 14mm, Steel	am-1538	1	
Shaft, Adapter, Falcon 500 Spline, 500 Hex Long	ip-4187	1	
Screw, BHCS, 8-32 x 0.5" w/ Nylon Patch	am-1537	1	
Spacer, 1/2 OD x 8mm ID x 1/2" Long	am-1751	1	
Screw, SHCS, 10-32 x 1" w/ Nylon Patch	am-1763	2	
Motor Spacer	am-5263	1	



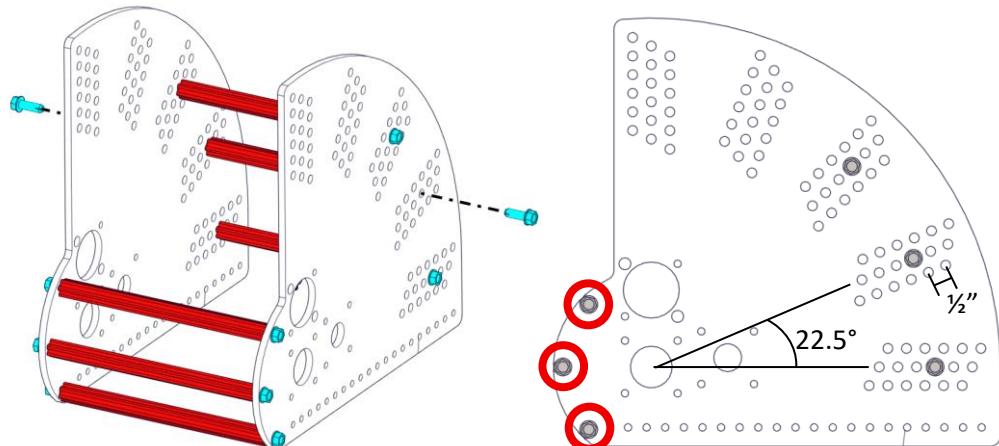
Step 1

From the included churro pieces (am-3101-1780), cut [8] churro pieces of equivalent length. If attaching this product to the AndyMark Turret Kit (am-5743), 7" churro pieces are ideal. This guide will show 7" churros. **The churro length sets the inside width of the launcher**



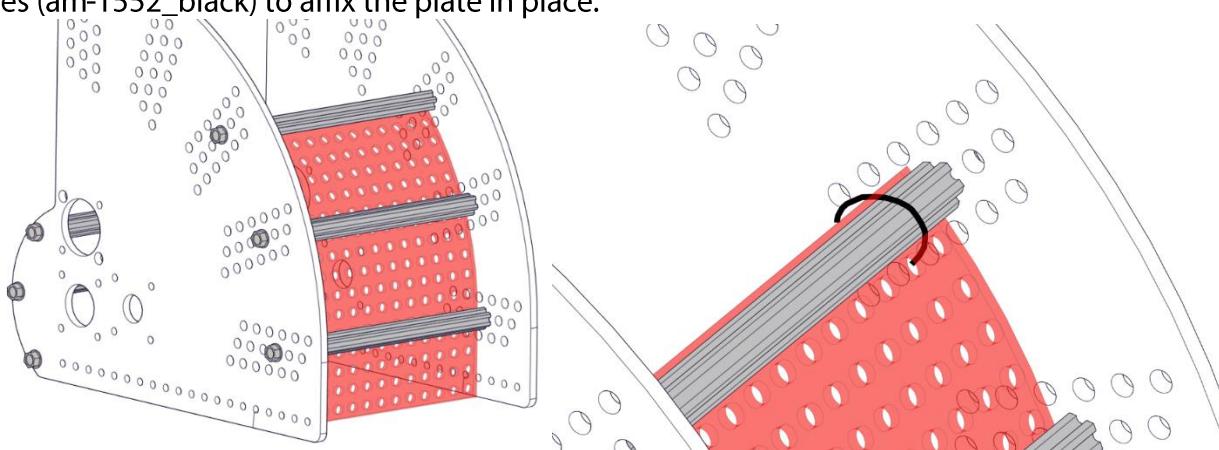
Step 2

Attach [2] side plates (am-5779) using the 7" churros from Step 1 and [2] 1/4-20 threadforming screws (am-1310) per churro. Use up to 5 churros, one in each grouping of holes, to set the "Launch Angle" of your kit. Each grouping is spaced 22.5° apart. Always put [3] churros at the front of the assembly in the highlighted holes.



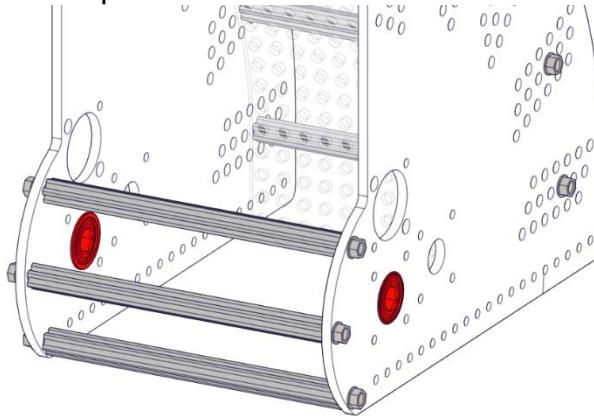
Step 3

Cut the launcher hood plate (am-5796) to fit along the churros placed in Step 2. Use Cable Ties (am-1552_black) to affix the plate in place.



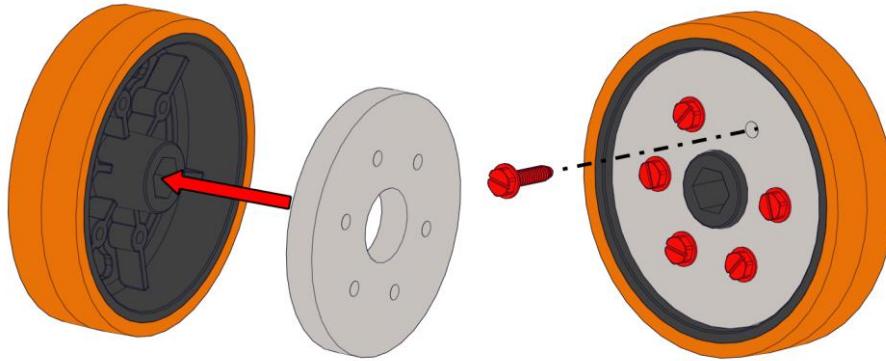
Step 4

Insert [2] hex bearings (am-2986) into the side plates in the locations shown. Bearing flanges should be on the inside of each plate.



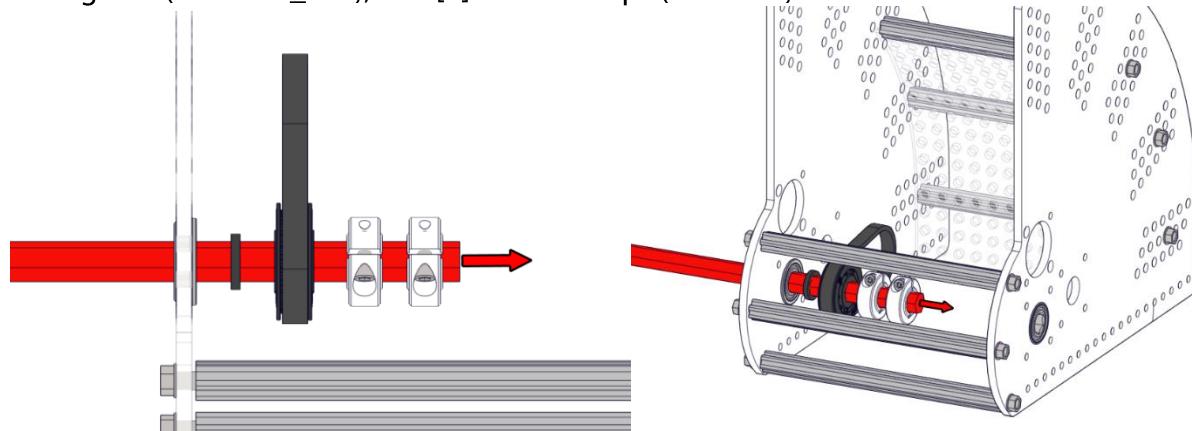
Step 5

Build [2] flywheel assemblies by inserting [1] flywheel for stealth wheels (am-4019) into [1] 4" orange stealth wheel (am-2647_orange) and securing it in place with [6] Thread Forming 10-24 screws (am-1123). Set these aside for the moment.



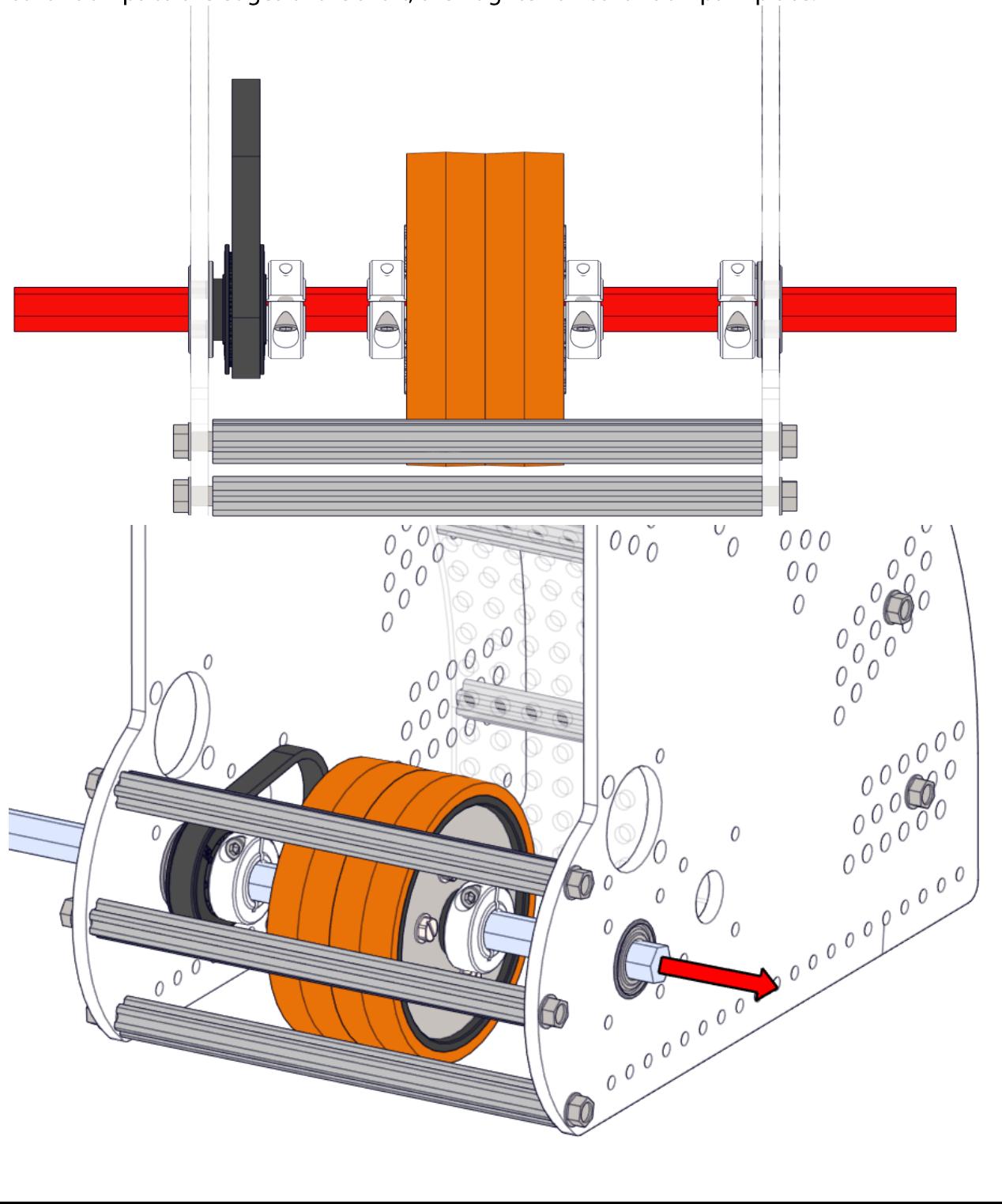
Step 6

Through one of the bearings in the main assembly slide [1] hex shaft (am-2291-1), then overtop of it, slide [1] 1/8" hex spacer (am-3948-125), [2] pulley halves (am-3403_half), [1] 45T timing belt (am-5209_45T), and [2] collar clamps (am-1526).



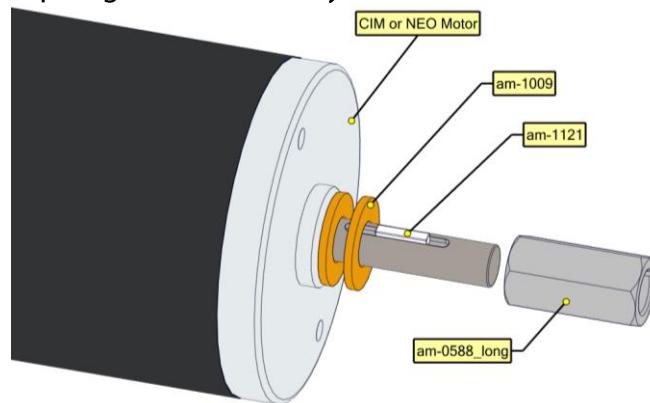
Step 7

Continue sliding the hex shaft through the assembly, sliding on [2] flywheels from Step 5 and [2] collar clamps (am-1526). Center the flywheels and innermost collar clamps, push the outer collar clamps to the edges of the shaft, then tighten all collar clamps in place.

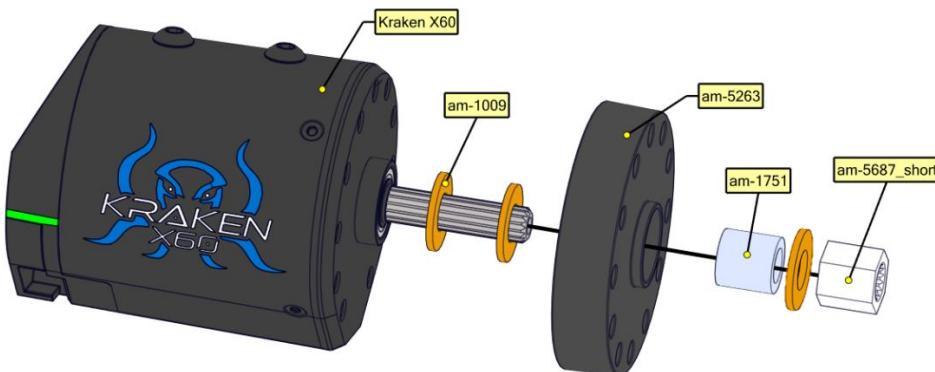


Step 8

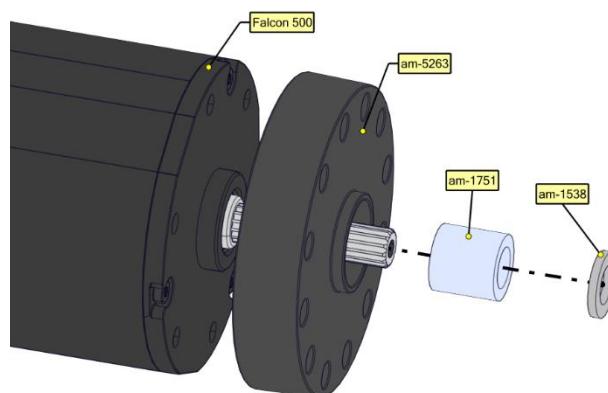
If using a CIM or NEO motor with your launcher, slide [2] 8mm ID washers (am-1009) onto the motor shaft, then insert [1] 2mm key (am-1121) into the keyway. Finally, slide [1] hex adapter (am-0588_long) over top, aligned with the key.



If using a Kraken X60 with your launcher, slide [2] 8mm ID washers (am-1009) and [1] motor spacer (am-5263) onto the motor shaft, then [1] 0.5" long 8mm ID spacer (am-1751), [1] more 8mm ID washer (am-1009), and [1] Spline XS to Hex adapter (am-5687_short).

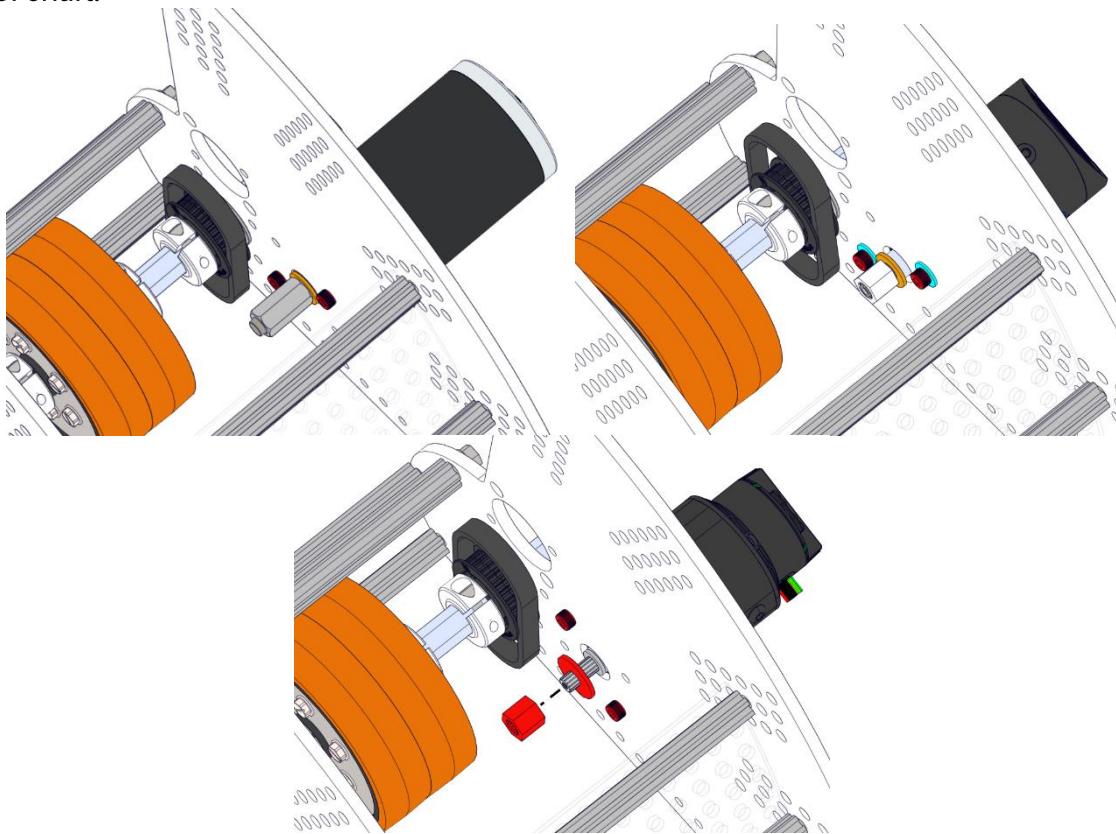


If using a Falcon 500 with your launcher, slide [1] motor spacer (am-5263), [1] 0.5" long 8mm ID spacer (am-1751), and [1] M7 Falcon Spacer (am-1538) onto the motor shaft.

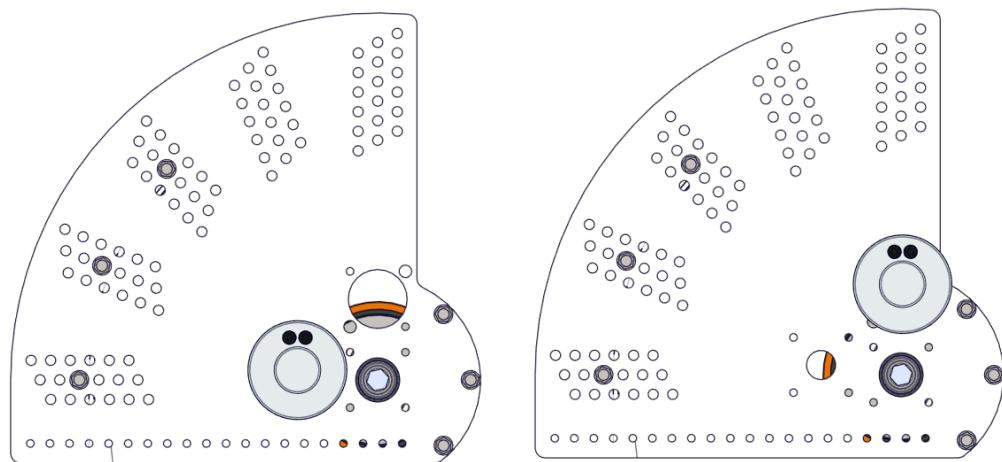


Step 9

Mount the motor to the side panel. If using the CIM motor, simply attach the motor using [2] 0.5" 10-32 screws (am-1744). If using a Kraken X60, use [2] #10 washers (am-1026) and [2] 1" 10-32 screws (am-1763). If using a Falcon 500, just use [2] 1" 10-32 screws (am-1763) and slip [1] Falcon washer (am-1543) and [1] Falcon Spline to hex adapter (ip-4187_short) onto the motor shaft.

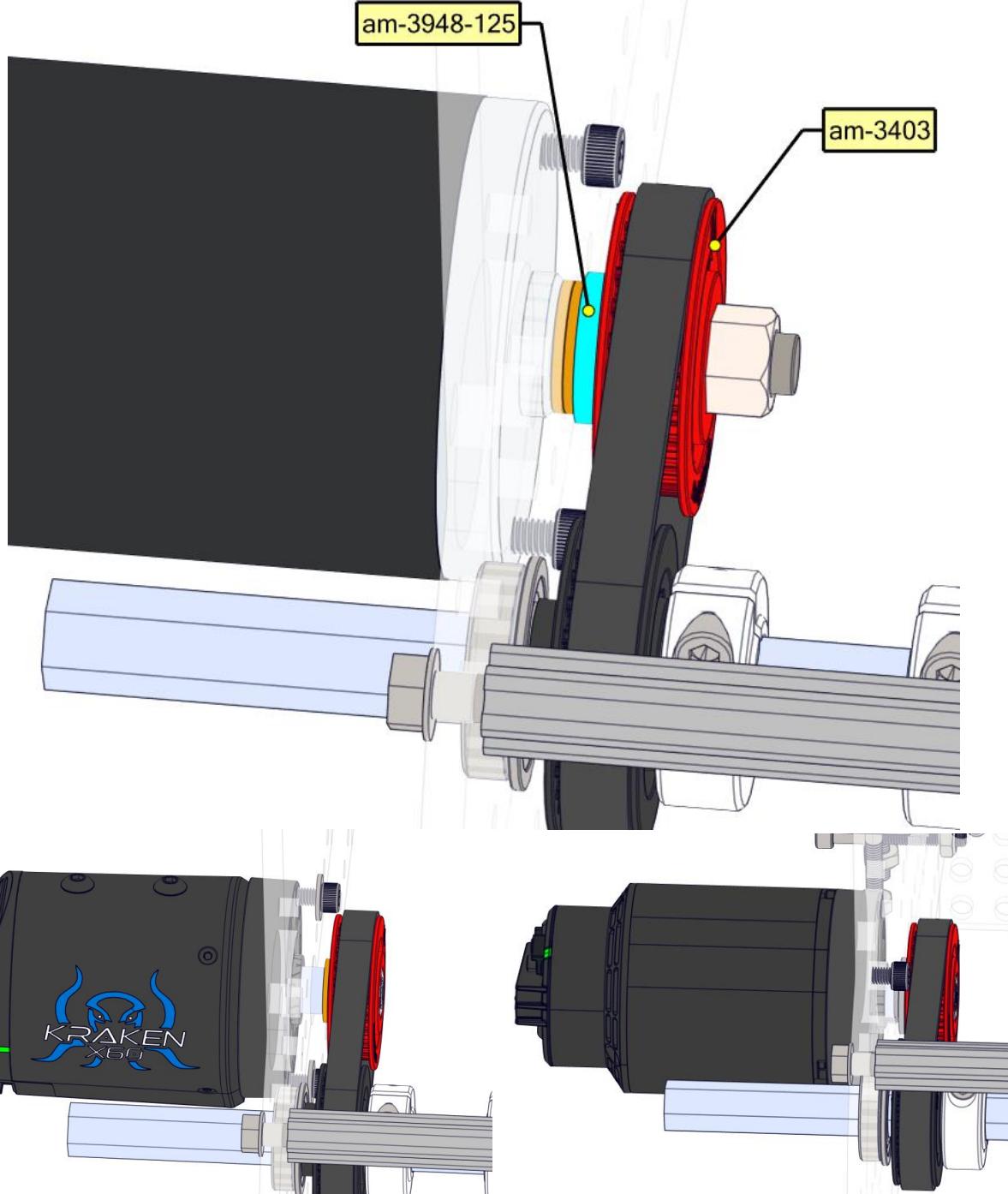


Motors can be positioned in two different orientations, to the side of the flywheel or above it.



Step 10

Slide [2] 24T pulley halves (am-3403_half) onto the motor shaft. If using a CIM or NEO motor, make sure to insert [1] 1/8" hex spacer (am-3948-125) before the pulley.



Step 11

If using a CIM or NEO motor, slide [1] 1/4" hex spacer (am-3948-250) and [1] 0.1" hex spacer (am-3948-100) onto the hex adapter, then secure with a retaining ring (am-0033). For the Kraken X60, simply retain the shaft assembly with [1] 1" OD #10 washer (am-1575) and [1] 0.375" long 10-32 button head cap screw (am-1588). For the Falcon 500, retain the shaft assembly with [1] M7 washer for Falcon 500 (am-1543) and [1] 0.5" 8-32 button head cap screw (am-1537).

