

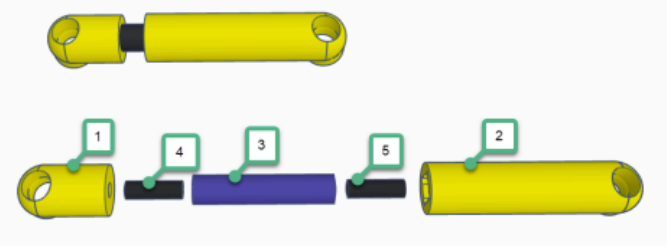
QIK 112 BUILD NOTES

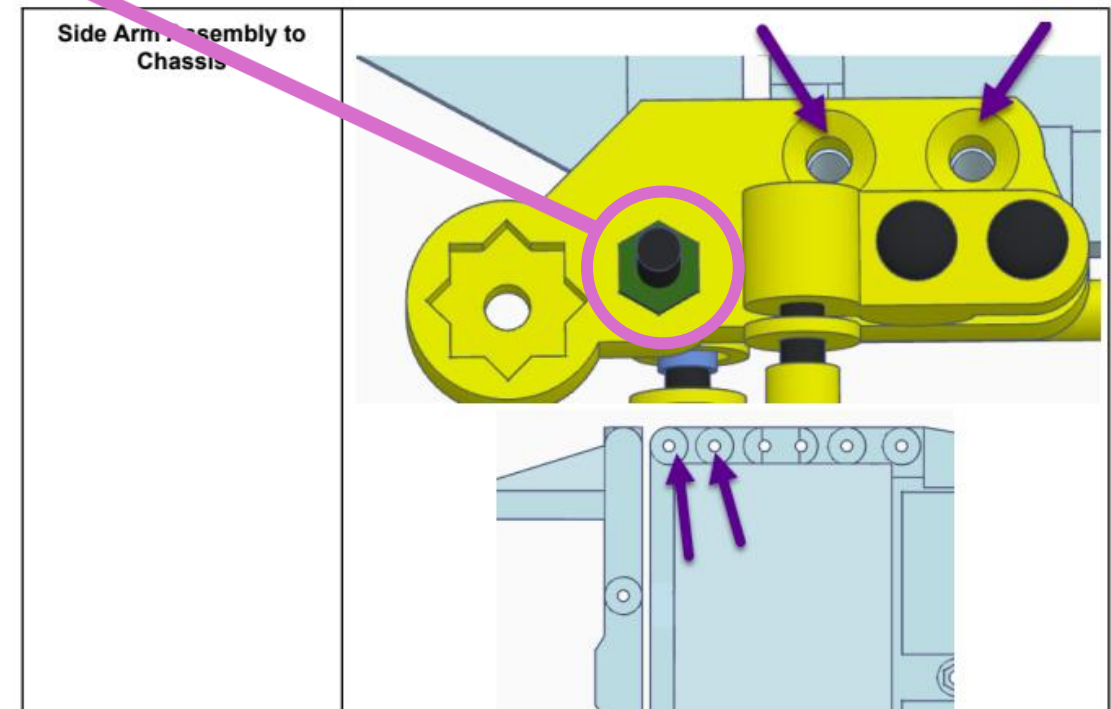
Ryan Witchey
witcheydesigns@gmail.com

Where do the side dampers attach?

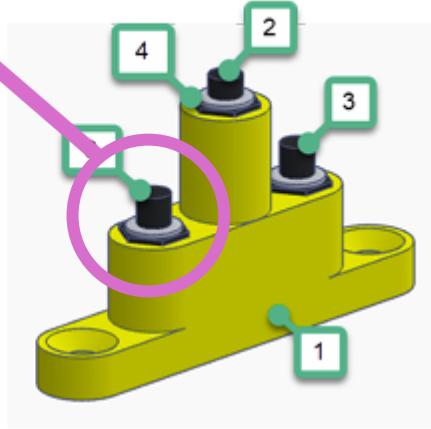
What is the orientation (plunger or cannon facing outward)?

If the mount to the side pod (pink highlight), there is barely any thread engagement)

Side Damper	
PARTS	1) Plunger 2) Cannon 3) M3x25 TSO 4) M3x16 SS 5) M3x8 SS 6) M3x5.5 TB (not shown)
Assembly STEPS	
1	Thread set screw (#4) into plunger (#1) half way in
2	Thread threaded standoff (#3) onto set screw (#4) and tighten against plunger (#1)
3	Thread set screw (#5) into standoff (#3) until flush
4	Press a threaded ball into plunger (#1) and cannon (#2)
5	Apply your preferred grease (we recommend Kyosho #96504 15K diff. gear grease to start with)
6	into slots of cannon (#2) and around surface of threaded standoff (#3)
7	Slide the two halves together. Wipe off any excess grease.
8	Repeat steps 1-6 for second damper



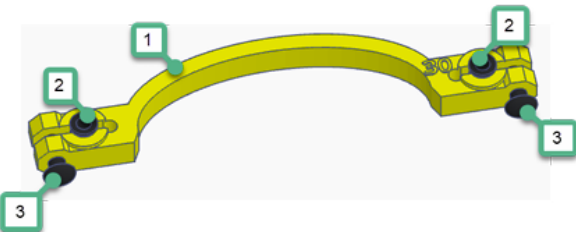
Is this where they attach to the center post?

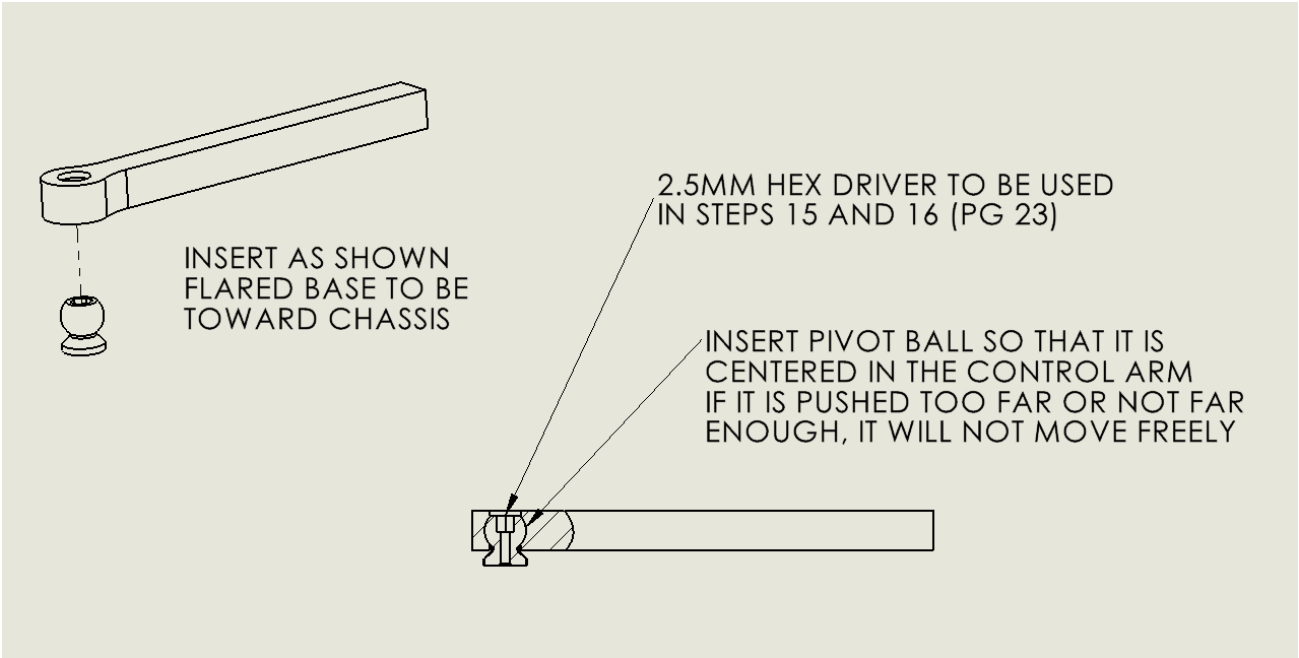
Damper Mount	
PARTS	1) Damper Mount 2) M3 x 25 FH 3) M3 x 16 FH (2) 4) M3 NyLoc (3)
Assembly STEPS	
1	Assemble as shown

This is personal preference more than anything, but I like really detailed technical drawings / instructions. Leave it to my involvement in the r/c helicopter industry ☺

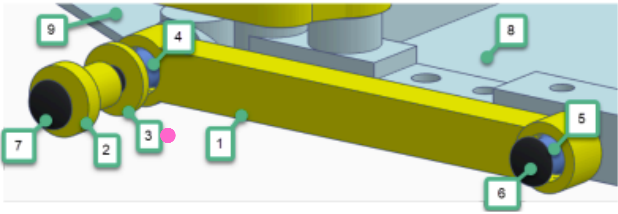
I would be happy to help if you ever want these revised

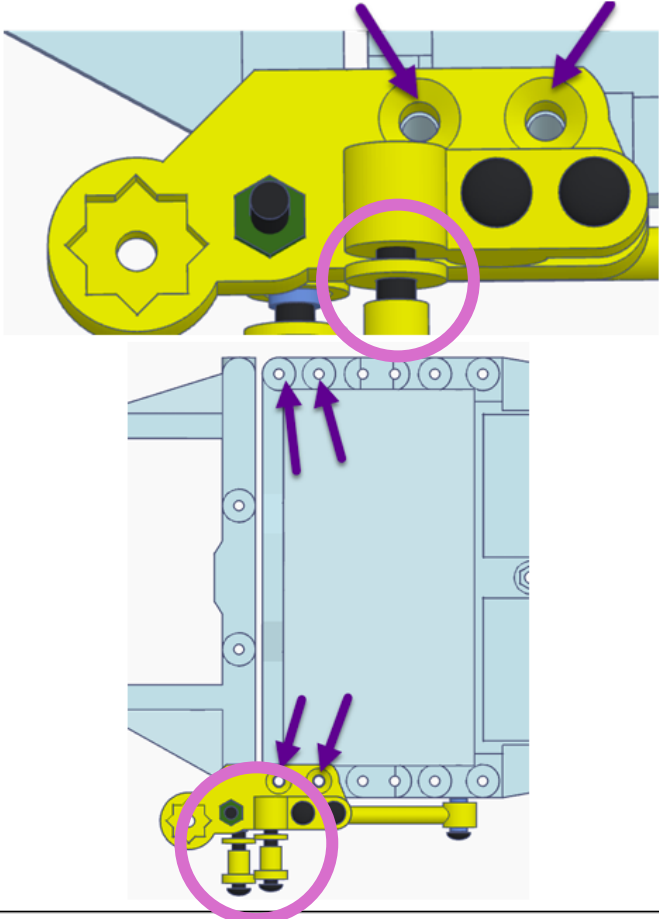
ASSEMBLY INSTRUCTIONS

Center Link	
PARTS	1) Center Link 2) M3 x 5.5 TB (2) 3) M3x10 BH (2)
Assembly STEPS	
1	Pop a TB (#2) (Threaded Ball) into each end of Center Link (#1)
	The image shows the bottom side of the center link, in this view the "NECK" of the balls are upward
2	Insert M3 x 10 BH into each end.
	Tighten to just "snug". Ball must remain free to move but with little to no slack



I have noticed that the washer ID, OD and THK is not called out anywhere in the build guides. There are (8) different printed spacers / washers and no guidance on which ones go where

Side Link Assembly	
PARTS	1) Side Link 2) Spindle 3) Spindle Washer 4) Ball Tube 5) Ball Tube
112-44 GT Body Post Sleeve Set	
112-45 Body Post Sleeve Cap (TPU) (4)	
112-46-30 Center Link	
112-47 Side Spindle (2)	
112-48 Side Link (2)	

Side Arm Assembly to Chassis	
PARTS	Side Arm Assembly
Assembly STEPS	
1	☐ Attached RIGHT Side Arm Assembly to Chassis using 2 M3x16 BH Screws. Arrows indicate where the BH screws go.
2	☐ Repeat for LEFT side

I do look forward to getting this one going and I think it is pretty neat using the 3D printing to make a kit. Interesting to see how you tackled the suspension without springs. I like the outside of the box thinking!

As for the build guides... I personally would have found it more useful to have one, complete guide for the kit instead of several different ones that may or may not apply. For example, the center damper was on the 112 page and I looked all over for the parts until I realized that this kit doesn't come with it 😊

I hope you don't take the feedback in any negative way whatsoever. It is just my non-stop pursuit of perfection that I am struggling to overcome ;)

-Ryan