

Assembly Instructions for the RAMM



Notice: RAMM systems are usually shipped intact since at least 2015 so these instructions are obsolete and rarely needed.



Be sure to locate and remove all parts and tools from the packaging.

Part 1: Parts list

Step 1: Remove all the parts from the packaging. They should include: two Upright Arches, (A), with four Foot Clamps, (B), attached by 8 cap screws, four Cross Bars, (C), with 12 cap screws attached, one Alt Cross Bar with Cross Bar Mount attached, (D), with 3 cap screws, one M.I. Microscope and LS-50 assembly, (E), with 4 cap screws and 4 washers, one C.D.Z., (F) with 4 cap screws and 4 washers, one Riser assembly, (G), (2-Risers and one Riser Cross Bar), with 8 cap screws and 2 washers, 20 Alignment Pins, (H), and two hex wrenches 5mm and 6mm.

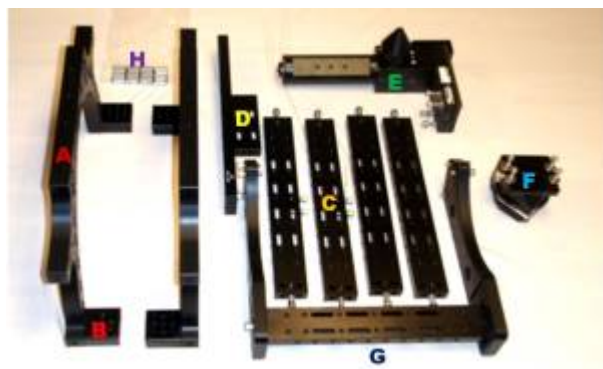


Fig 1

Step 2: Start with the two arches as shown in figure 2 placed the distance of a cross bar apart, (see figure 2). Add the two cross bars, (see figure 3a), that have cap screws only in their ends to the uppermost corner holes in the arches, (see figure 4a, b and c). The bars must have the mounting holes up and the smaller stage mounting holes to the inside, (see figure 5). Each bar needs four alignment pins and two cap screws, (as in figure 3b and 4a).



 Fig 2



 Fig 3a



 Fig 3b



 Fig 4a,4b and 4c ; Click to Enlarge



Fig 5: Top Bars on

Step 3: Add the next two cross bars with 2 extra cap screws to the upright arches at the second hole from the bottom. Use the same alignment pins on these bars and have the cap screws point down, (see figure 6 and 7a, b, and c).



Fig 6



Fig 7a and 7b



Fig 7c

Step 4: Add the alt cross bar and mount to the cap screws on the bottom of the lower bars.



Fig 7d

Step 5: Add the Modular Infinity Microscope to the alt cross bar and secure using the attached 4 cap screws and washers.



Fig 8a

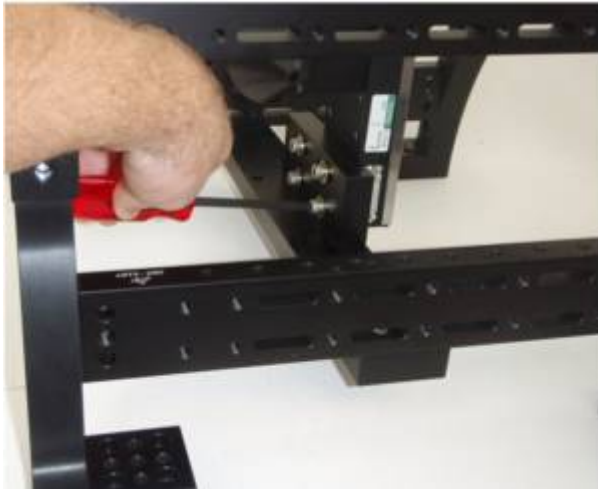


Fig 8b

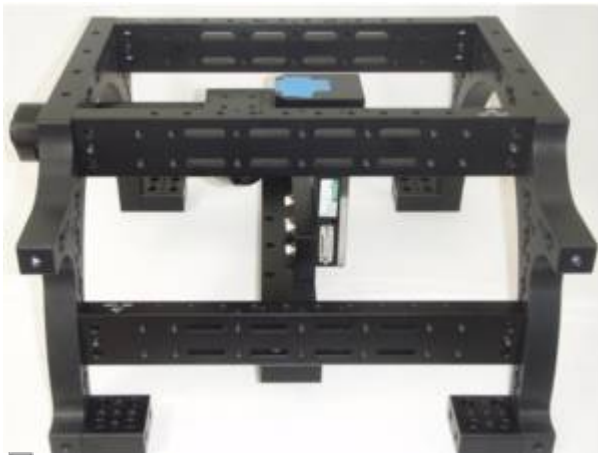


Fig 8c

Step 6: Add the Riser assembly to the top of the RAMM with the four alignment pins and the provided 6 cap screws, (as seen in figures 9 and 10).



Fig 9a and 9b





Fig 10a

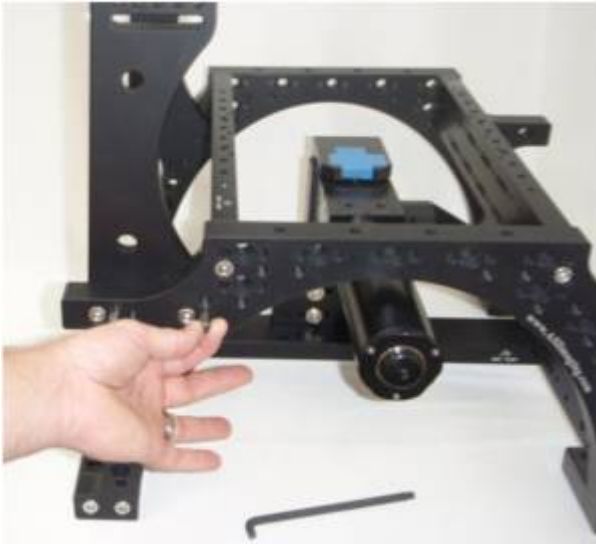


Fig 10b

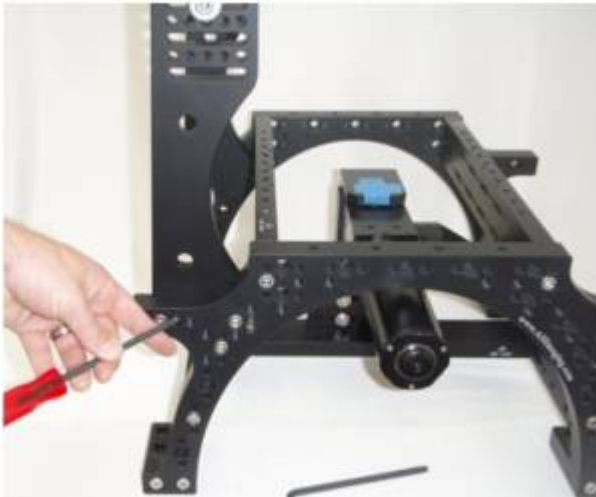


Fig 10c

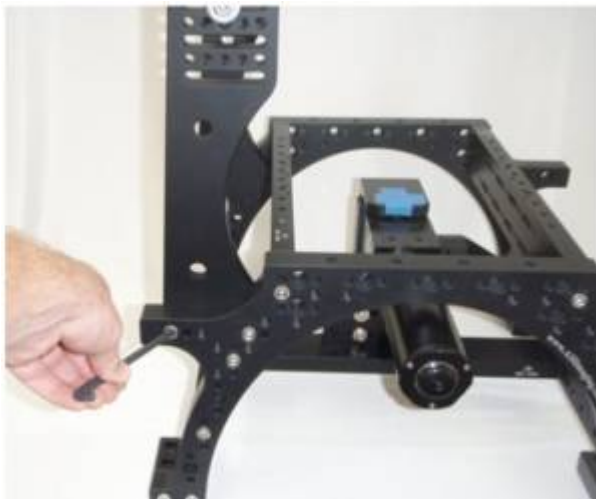


Fig 10d

Step 7: Add the CDZ to the Riser assembly and center with the four cap screws, (as seen in figure 11 and 12).



Fig 11



Fig 12

Step 8: Add the Ls-50 with dove tail to the CDZ and lock in place.



Fig 13





Fig 14

Step 9: Mount the stage to the RAMM system with the supplied cap screws and connect the cables to the stage and both of the LS-50s.



Fig 15



Fig 16

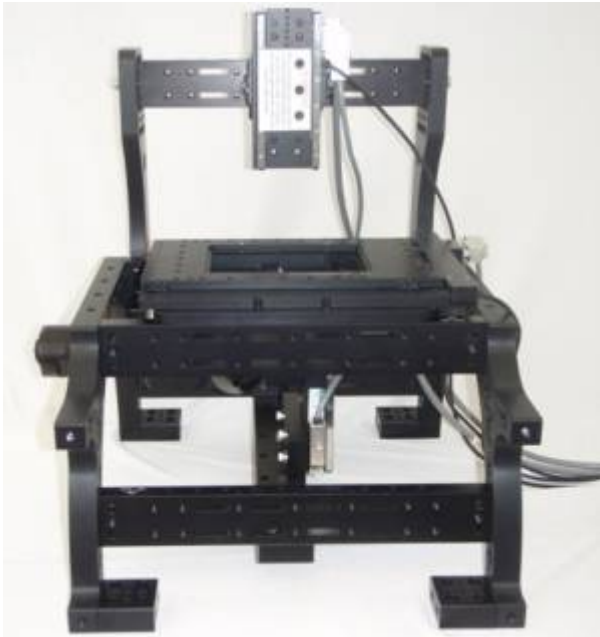


Fig 17

[ramm, manual](#)

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