

DYN STAND™

THE ORIGINAL



Introduction

Thank you for purchasing RoboStand, you made a wise decision. I have been a modeler since my early youth and have a passion for model airplane hobby. Over the years I always saw a need for a versatile stand to hold my planes both at home during construction and in the field while preparing my planes for flight. There are some competing products in the market nowadays that are helpful but not quite as versatile that I had envisioned in mind. So a few years ago I set out to design one to meet my expectations. After constructing a few prototypes and improving my original concept based on inputs that I received from my buddy modelers I finalized my design and started manufacturing it and making it available to other modelers. I hope you have as much fun using it as I had designing and using it myself. RoboStand has been designed to accommodate the need for holding your model in almost any position you want, so you can work on it comfortably and securely.

Construction

RoboStand is made of welded Hollow Structural Steel (HSS) which is zinc and powder coated, aluminum, and of course the very substance that made aviation possible let alone our beloved hobby, wood in the form of Baltic Birch plywood and oak.

Specification

Maximum Fuselage width capacity	11.5"
Maximum Load capacity	50 Lbs
Distance between supports	17.5"-30"
Working height	42" down to 28"
Pitch	180°+
Roll	360°
Yaw rotation	Maximum 45° Left or Right
Footprint	4 Sq. foot
Weight	24 lbs.

Safety Precautions

Do not start or run engines, electric motors or any kind of propulsion systems on RoboStand. Use safety glasses while assembling RoboStand to prevent potential safety hazard to yourself. Assemble the RoboStand in an area away from children.

Do not exceed the max load limit.

Use RoboStand only for its intended use.

RoboStand is recommended for hobbyists of 14 years and older.

Warranty

RoboStand guarantees the components and parts to be free from defects both in material and workmanship as of the date of purchase. This warranty does not cover damage due to an accident, misuse, abuse, commercial use, improper assembly, improper operation, and modification to any part of RoboStand.

Disclaimer

Please read this disclaimer carefully and completely follow the assembly instruction in this manual. RoboStand has no control over final assembly and is not responsible for loss of use, or other incidental or consequential damages. Furthermore RoboStand cannot be held liable for personal injury or property damage by the use or misuse of RoboStand. By the act of using the user-assembled products, the user accepts all resulting liabilities.

Return Policy

You can return the stand within 30 days after receiving date minus a flat rate shipping and handling charges of \$85.00.

Customer must contact DynoStand™ and obtain a RMA number before returning the item. It must be unassembled, in the original packaging, in the same order as it was packed to prevent damage.

Any part that is damaged, scratched or missing will incur the replacement or repair cost of the part which will be deducted from the refund amount at the sole discretion of DynoStand™.

Shipping charges are the customer's responsibility.



6-32 x 1/4" Socket Pan Head Screw (4)



8-32 x 3/8" Socket Pan Head Screw (2)



#8 x 1/2" Flat Head Screw (6)



#8 x 1/2" Sheet Metal Screw (8)



#8 External Tooth Lock Washer (2)



5/16" Flat washer (8)



1/4" Fender Washer (5)



1-1/4" Retaining Ring (4)



5/16"-18 x 1-1/2" T Handle Bolt (4)



5/16-18 Cap Nut (2)



5/16"-18 x 2-1/4" Socket Head Bolt (2)



3/8"-16 x 2.0" Carriage Bolt (4)



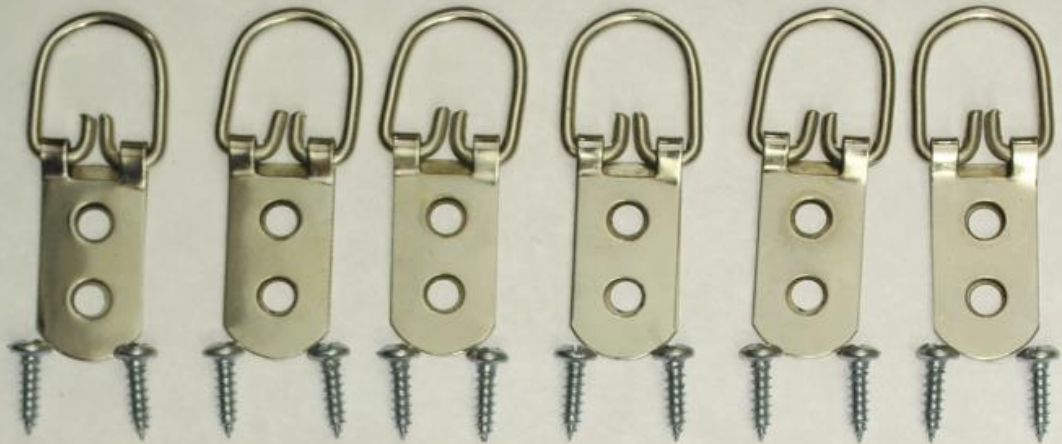
1/4\"-20 x 1.0\" Carriage Bolt (1)



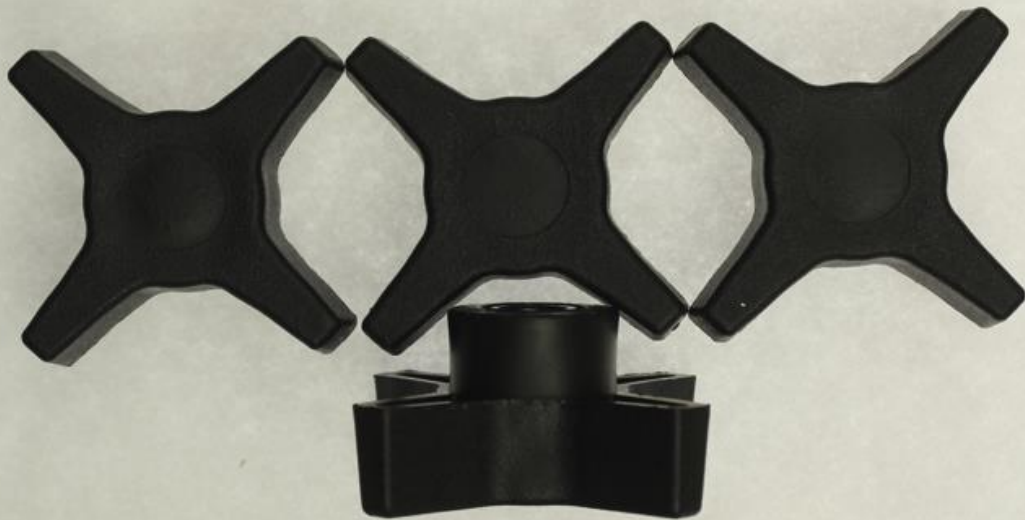
1/4\"-20 x 2.0\" Carriage Bolt (4)



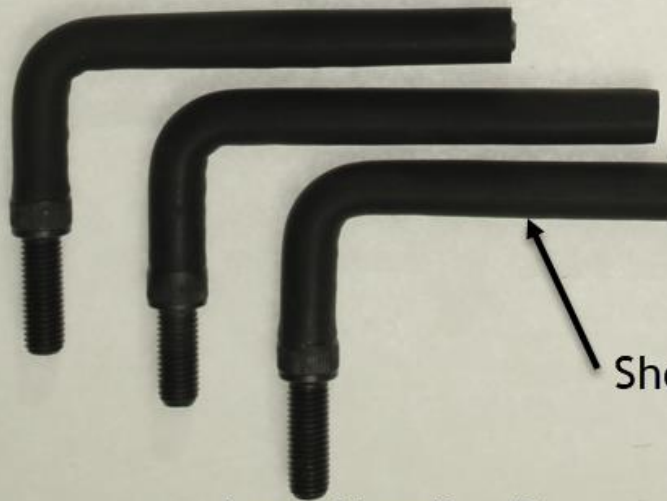
1/4\"-20 Three Prong Knob (5)



D Ring (6)



3/8"-16 Four Prong Knob (4)



Short Handle

Lock Handle (3)



1-1/4" Round Cap (1)



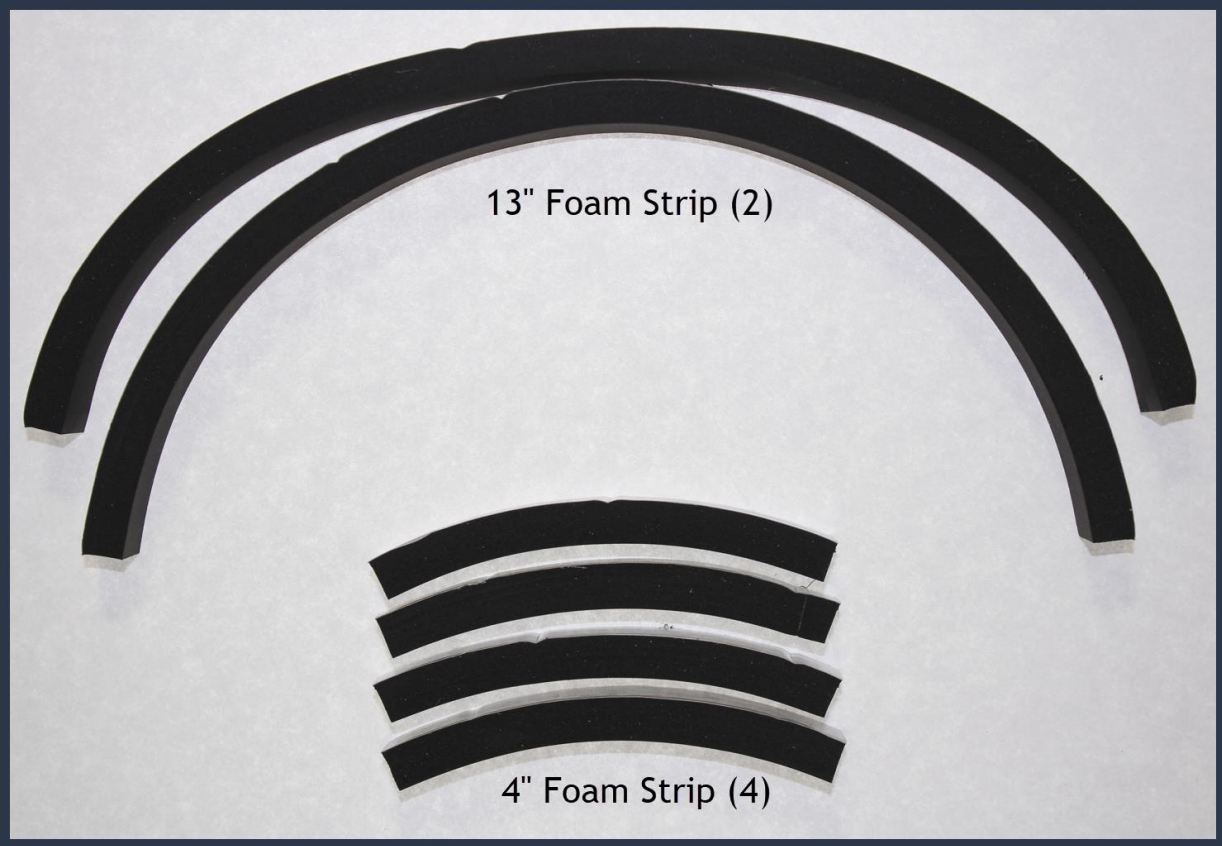
1-1/2" x 1-1/2" Plastic Cap (2)



2" x 3" Plastic Cap (2)



Hook & Loop (2)



13" Foam Strip (2)

4" Foam Strip (4)



5/16"-18 x 1-1/2" Leveling Glide (4)



One Piece Lock (1)



Base Center



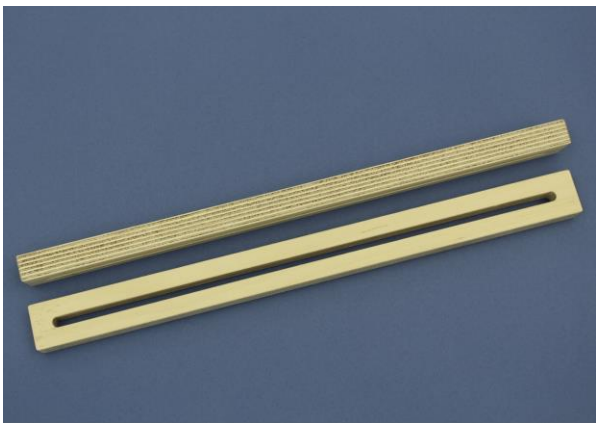
Base Leg (2)



Column



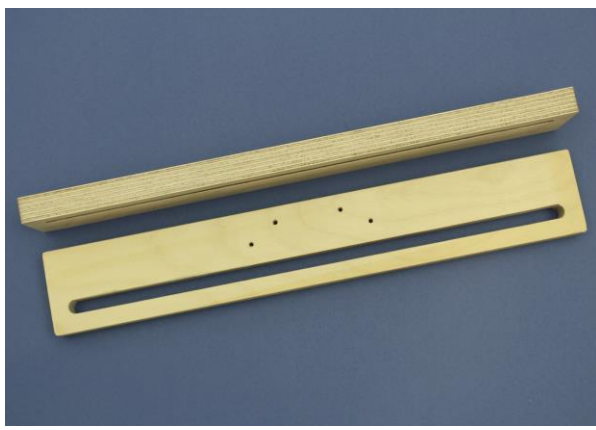
Extension



Floating Floor (2)



Saddle



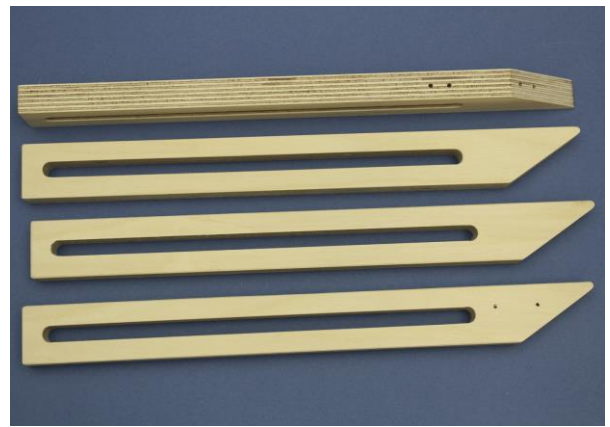
Sliding Block (2)



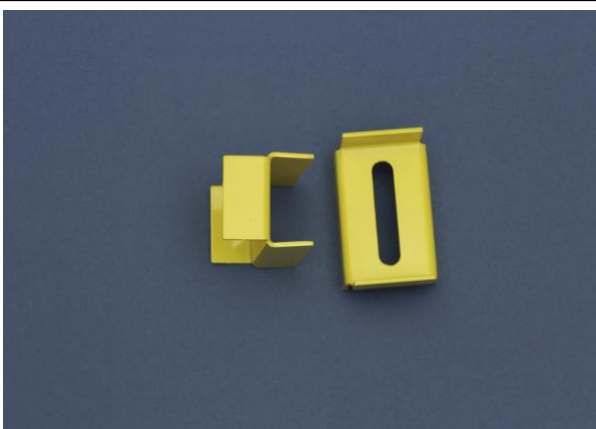
Stiffener



Wrist Bracket assembly



Side Support (4)



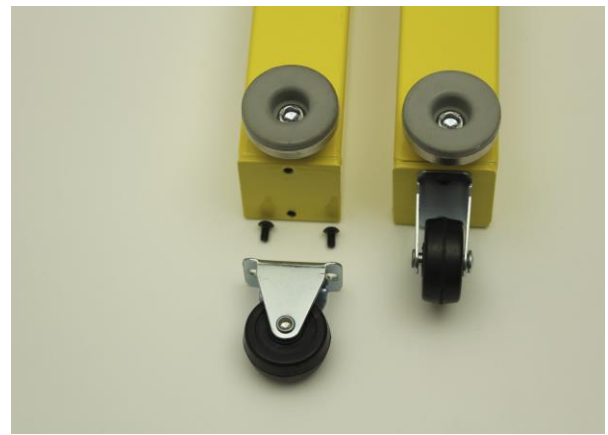
Anti-Rotation Bracket (2)



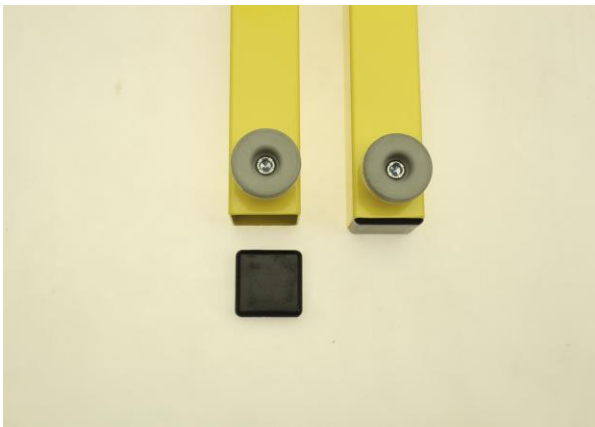
Arm



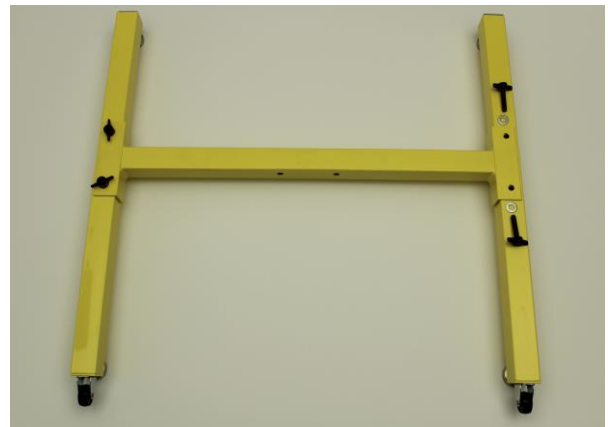
1- Screw in leveling glides (4) in the outer holes of the base legs.



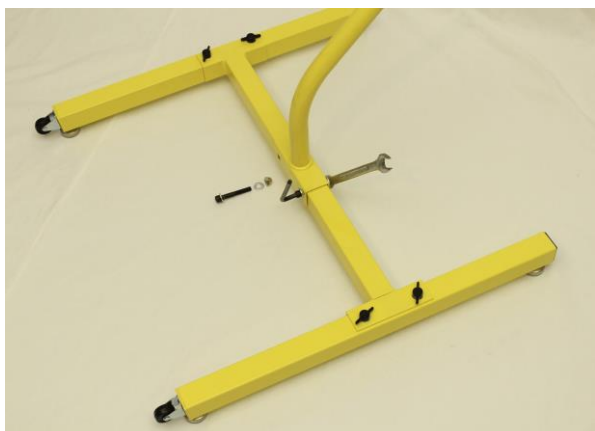
2- Install the casters using (4) 6-32 x 1/4" socket pan head screws with 5/64 or 2 mm Allen wrench. This is the front of the stand, use thread locker (i.e. Loctite).



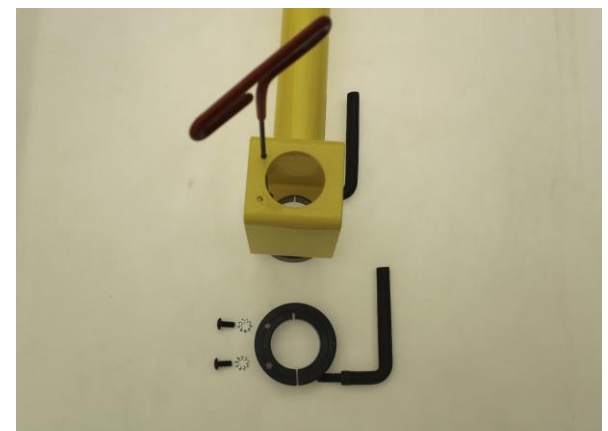
3- Insert the plastic end caps in the open ends of the base legs.



4- Install the Base center with (4) 5/16-18 x 1 1/2" T handle bolts and 5/16" flat washers, finger tight only.



5- Install the column firmly using (2) 5/16-18 x 2 1/4" socket head bolts, (4) 5/16 flat washers and (2) cap nuts, use 1/4" Allen wrench and 9/16 open end wrench, notice the orientation, set the assembly aside.



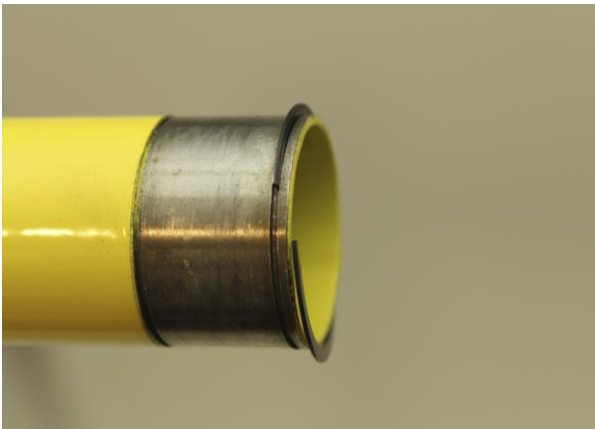
6- Install the one piece lock on the arm by two 8-32 x 3/8" screws, star washers and a long handle. Insure the arm slides freely on the column before tightening the screws. Use thread locker.



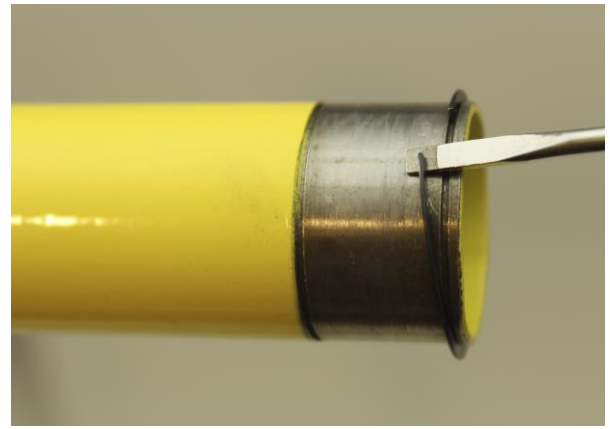
7- Slide the arm on the column, lock end on the bottom, and lock it in place using the long handle.



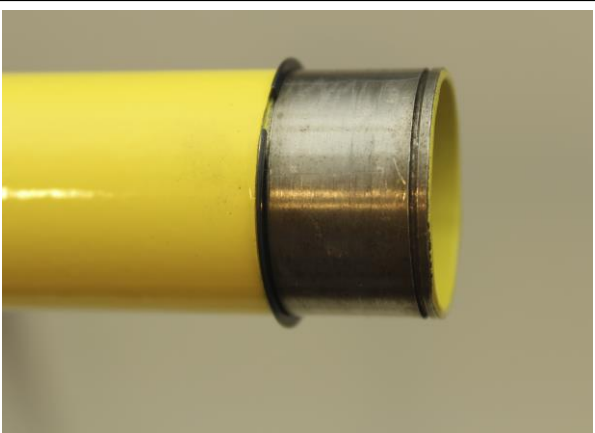
8- Insert the 2" x 3" plastic caps in the opening sides of the arm's box and the round plastic cap on top of the column



9- Slip the retaining ring on the first groove of the Arm.



9.1- Using a screw driver move the retaining ring on the arm towards the second groove.



9.2- Insure the retaining ring is properly seated in the groove as shown.



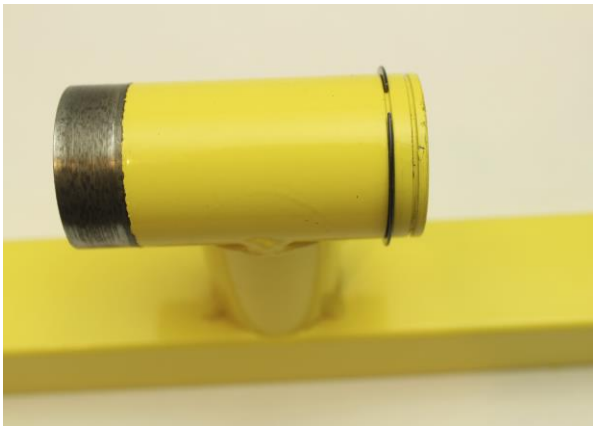
10- Use a drop of all-purpose lubricant on the bearing part of the arm and spread it around.



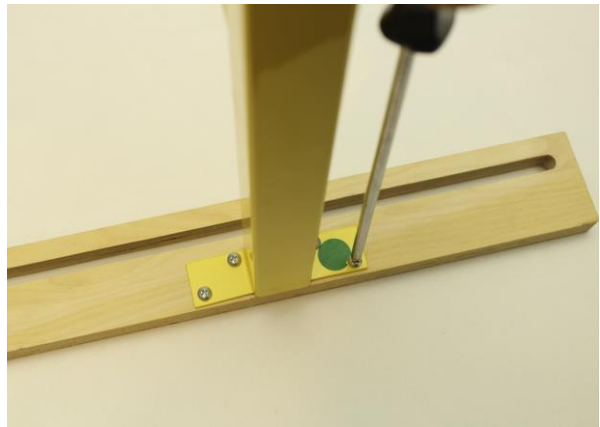
11- Install the wrist bracket assembly on to the arm with long lock handle and lock it in place.



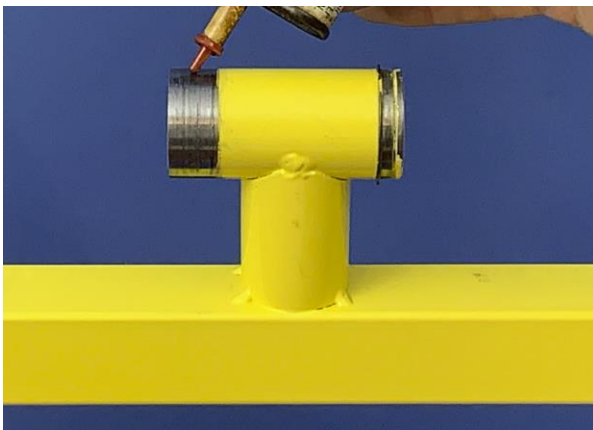
12- Install the arm's outer retaining ring.



13- Install the inner retaining ring on the saddle's wrist pin.



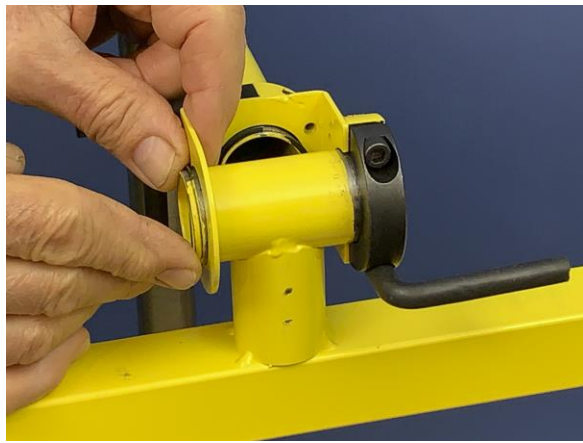
14- Install the numbered sliding block on the saddle's flange using (4) #8 x 1/2" sheet metal screws.



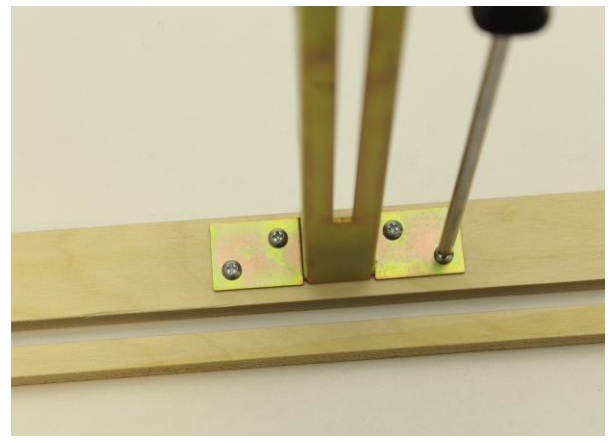
15- Use a drop of all-purpose lubricant on the bearing part of the saddle's wrist pin and spread it around



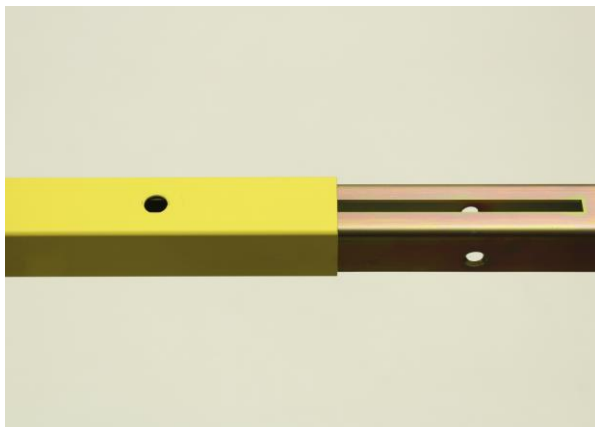
16- Install the saddle on to the wrist bracket assembly using short lock handle as shown.



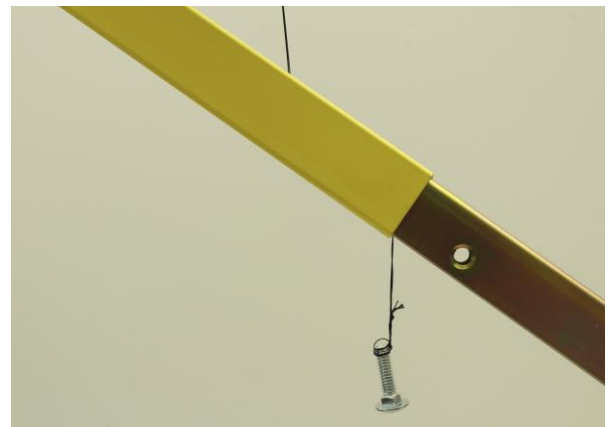
17- Install the wrist pin's outer retaining ring.



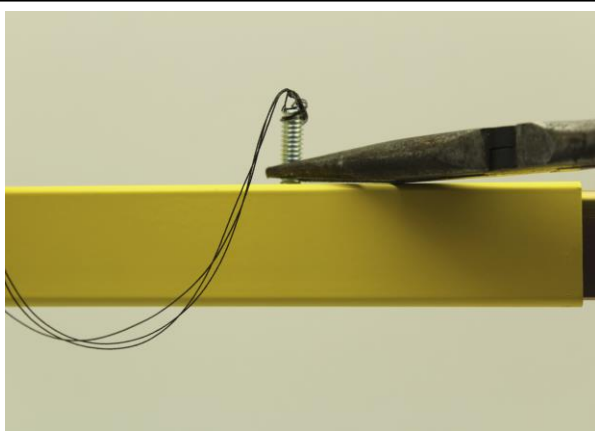
18- Install the other sliding block on to the extension using (4) #8 x 1/2" sheet metal screws.



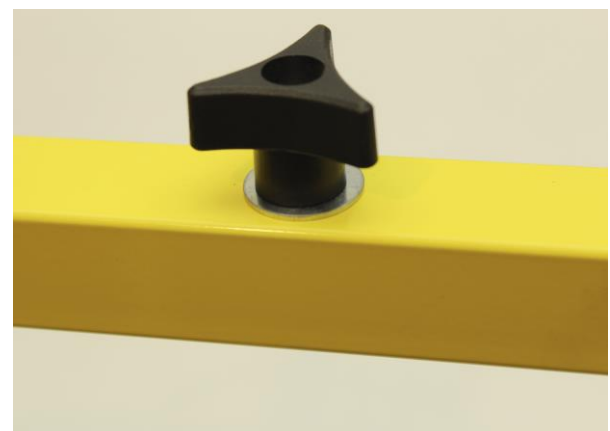
19- Insert the extension assembly into the saddle making sure the slot on the extension is on the side of the hole on the saddle's body far enough so the slot is visible from the hole.



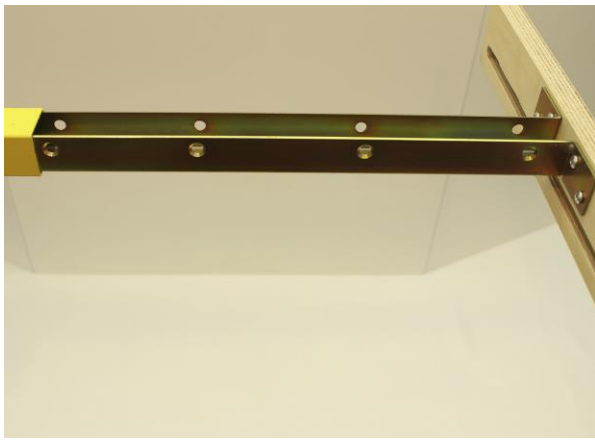
20.1- Use a piece of string to fish the 1" carriage bolt through the saddle hole.



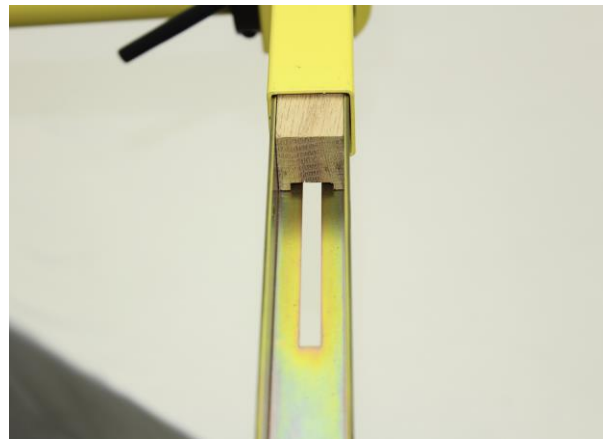
20.2- With a needle nose pliers hold on to the bolt to release the string.



21- Using a 1/4" fender washer and a 1/4-20 three prong knob secure the bolt in place making sure the square part of the bolt is inside the slot on the extension.



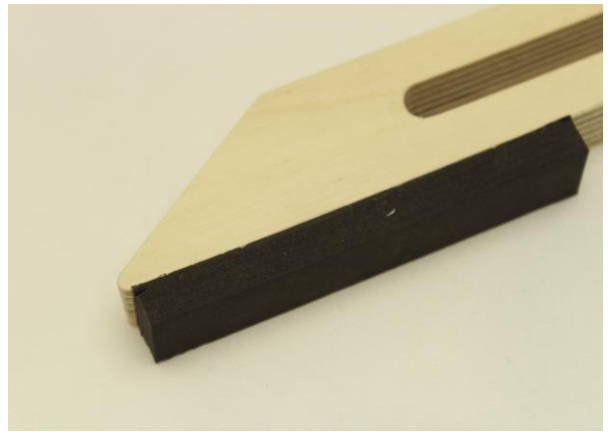
22- Loosen the three prong knob slightly and slide the extension all the way out until it is stopped by the bolt.



23- Insert the stiffener block into the extension with the groove side towards the slot.



24- Align the holes with the openings and secure it with (8) #8 x 1/2" flat head screws making sure the head of the screws are flush or below the surface.



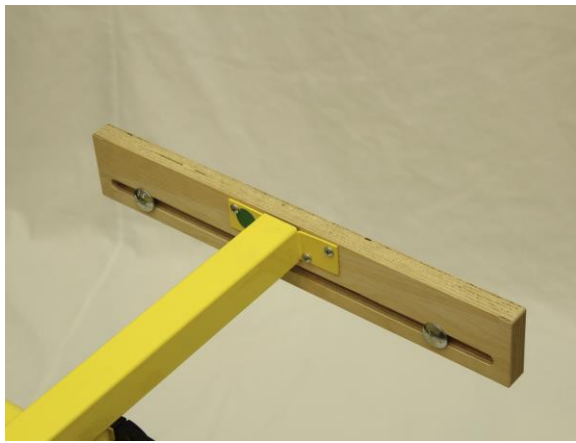
25- Adhere the 4" foam strips just below the tip radius of the side supports, (applying couple of coats of wood sealant prior is recommended).



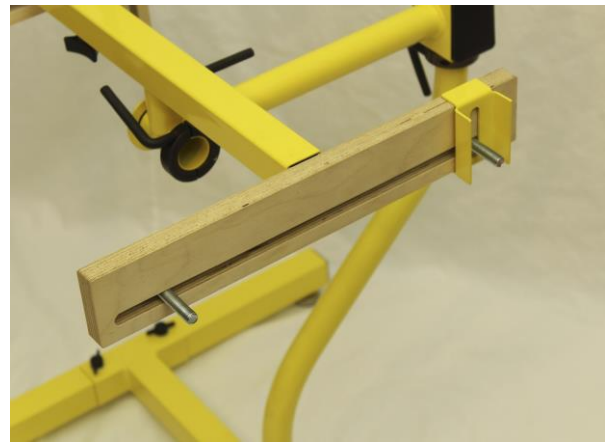
26- Install the D rings on the side supports per pre-drilled holes using #6 x 1/2" sheet metal screws.



27- Adhere the 13" foam strips centered on the floating floors, (applying couple of coats of wood sealant prior is recommended).



28- From the back, insert the 3/8-16 x 2" carriage bolts into the sliding blocks making sure the square part of the bolts are seated in the slot of the sliding blocks.



29- Install the Anti Rotation (AR) bracket as shown. Notice AR's position.



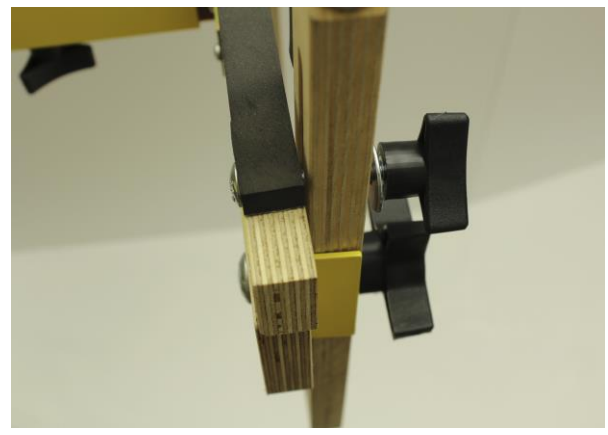
29.1- Install the side supports on the bolts and secure them with 3/8-16 four prong knobs (2 D ring side supports in front).



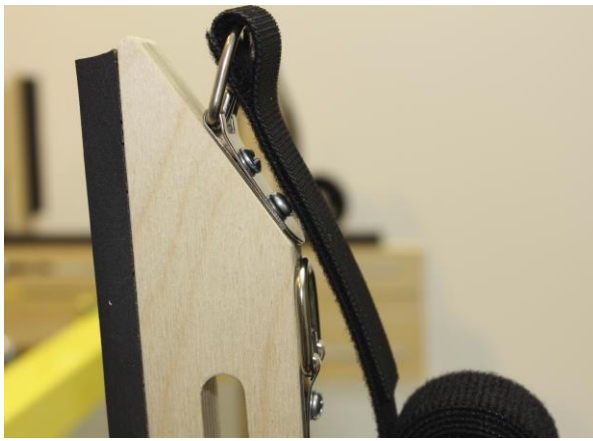
30- Position the floating floors on the sliding blocks behind the side supports foam side facing up.



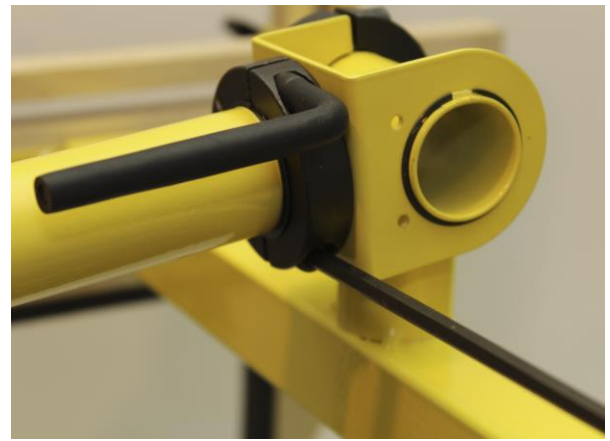
31- Insert 1/4-20 x 2" carriage bolts from the floating floor side through side supports.



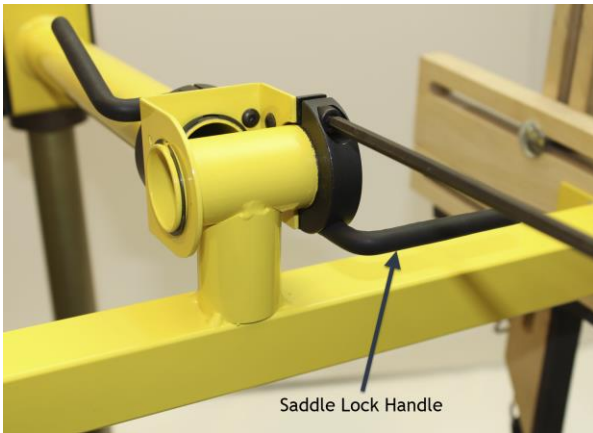
31.1- Secure in place by 1/4" fender washers and 1/4-20 three prong knobs.



32- Thread the end of 5/8" hook and loop strap about 4" through the top D ring on the side support with 2 D rings and fold it over itself.



33- Adjust the arm lock handle by adjusting the other screw of the lock with 3/16 Allen wrench so when it is LOCKED, it stays parallel to the arm pointing back.



34- Adjust the saddle lock handle in the same manner as above so when it is LOOSE it stays parallel with the saddle pointing to right.



YARR

(You Are Ready to Rock)



Strapping without landing gear.



Strapping with landing gear.



Working on the wing in vertical position.



Working on the wing in horizontal position.



Shown is one of the many ways the fuselage can be positioned.



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