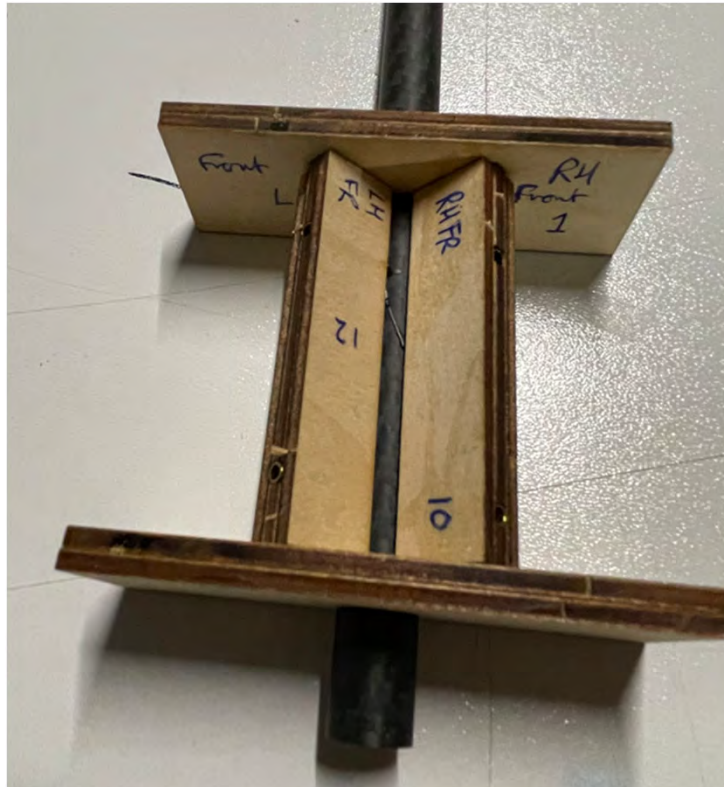
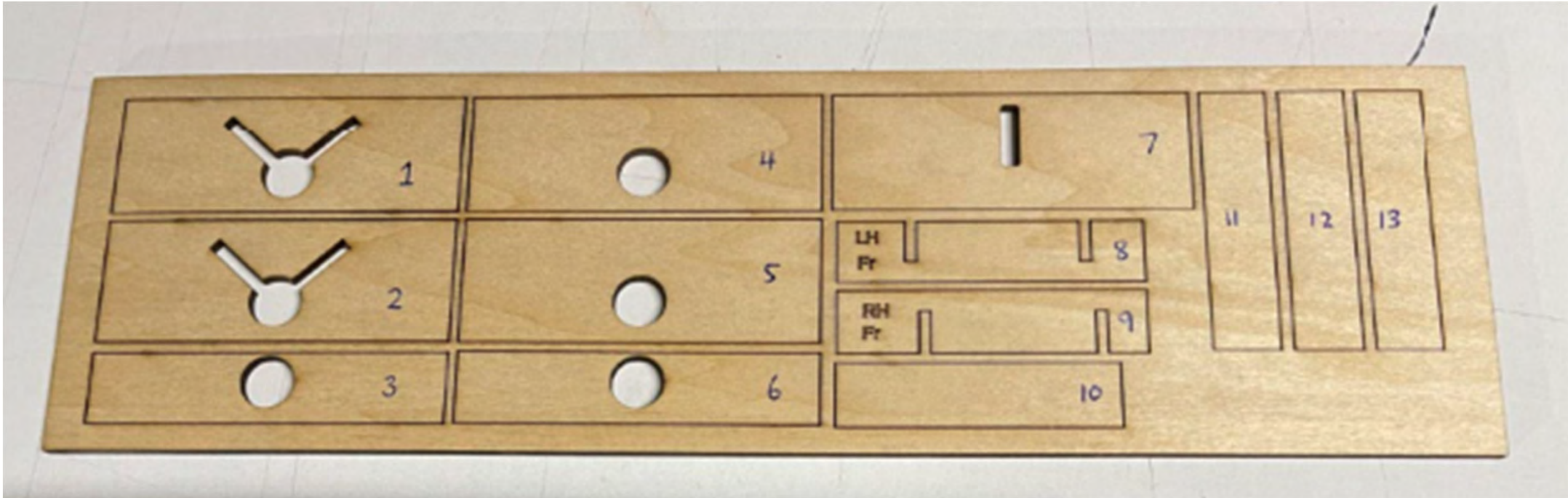


MEDINA
V TAIL BOOM DRILLING JIG
INSTRUCTION MANUAL





With a pen, label all the parts in the same way as shown above.

Note items 3 and 6 are not required.



Further label parts 8, 9, 10, 11, 12 and 13 as shown.

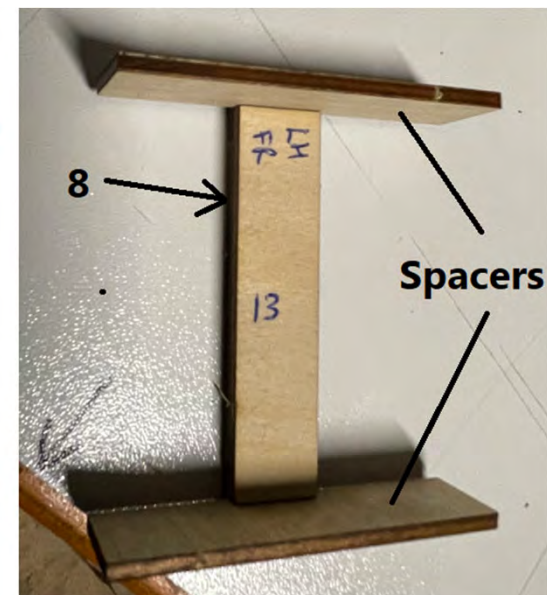
RH = Right hand, Fr = Front, LH = Left hand.

Glue in place the brass tubes with thick CA (Superglue). Ensure they are flat on the table when glued.

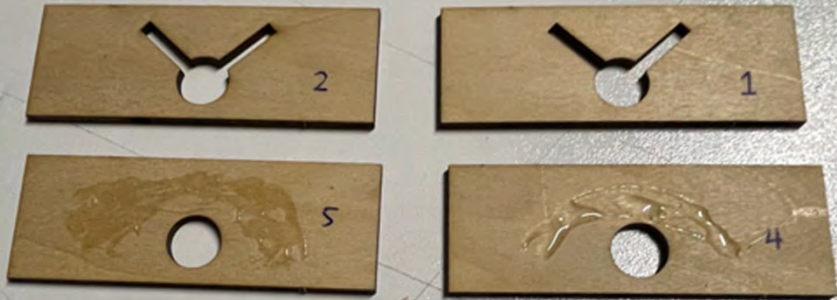
Glue 13 onto 8 making sure 13 is centered on 8 by using some scrap pieces of 3mm ply at each end as spacers.

Repeat for 11 onto 9, making sure it is also centered.

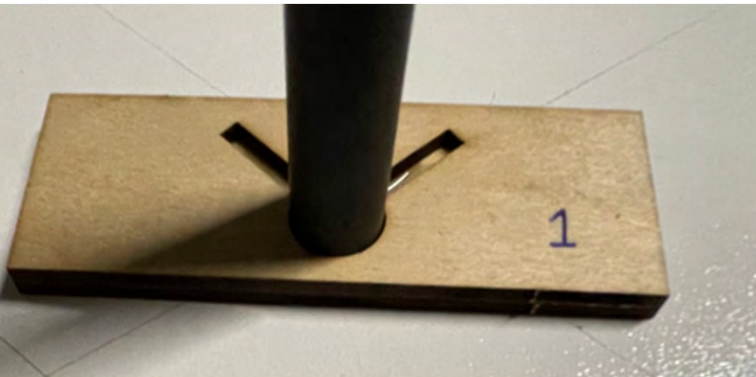
13 glued in the middle of 8



Glue 2 onto 5 and 1 onto 4.

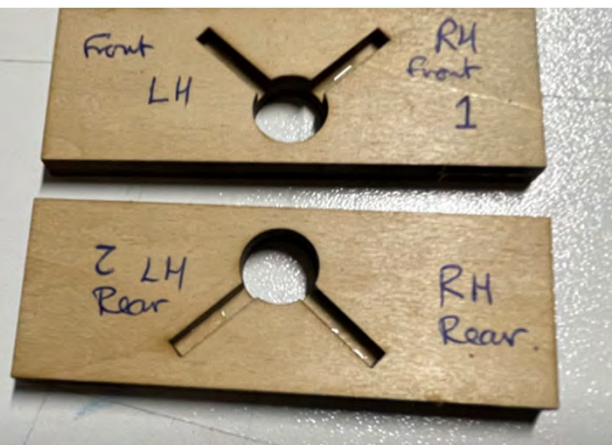


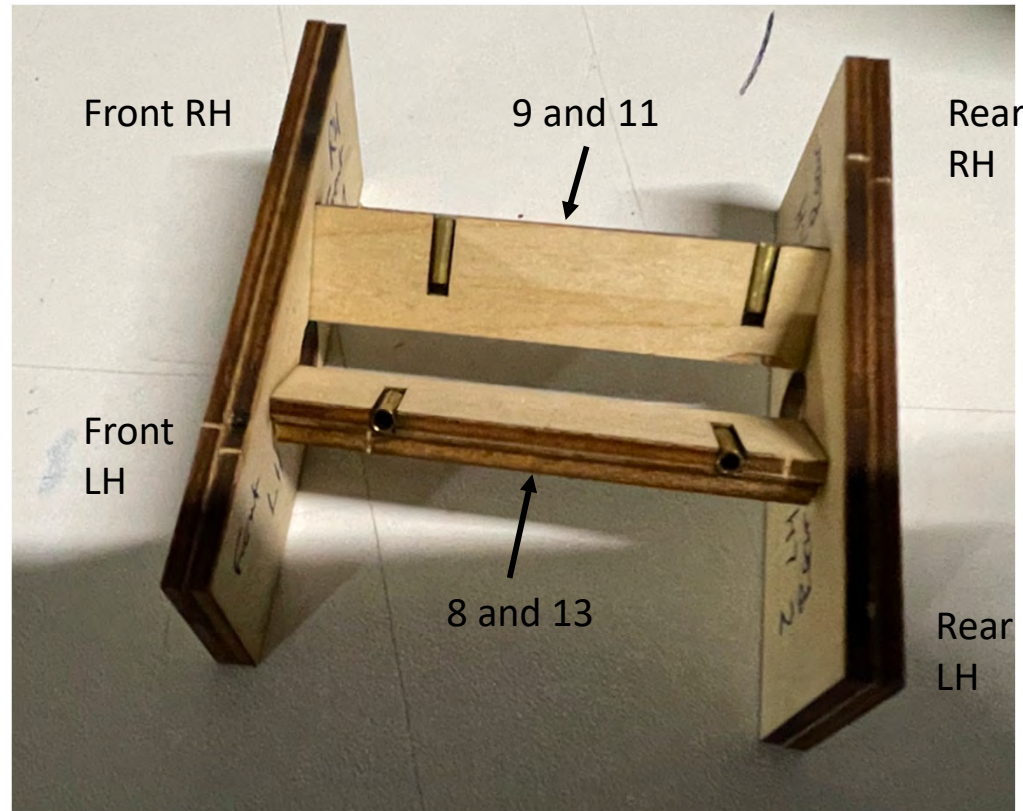
Use the boom to align the holes, do not glue the boom, it is just a guide.



Mark piece 1 as 'Front' and piece 2 as 'Rear'.

Mark the RH and LH sides exactly as shown.





Slide together (dry fit, no glue) the following parts as shown:

$(1,4) + (9,11) + (8,13) + (2,5)$

Ensure all parts correspond with their Front/Rear and RH/LH markings.



Unassembled the jig and apply thick CA (Superglue) at the interface of each of the 4 parts.

Slide the boom in place for greater accuracy. Hold the jig together while the glue dries.

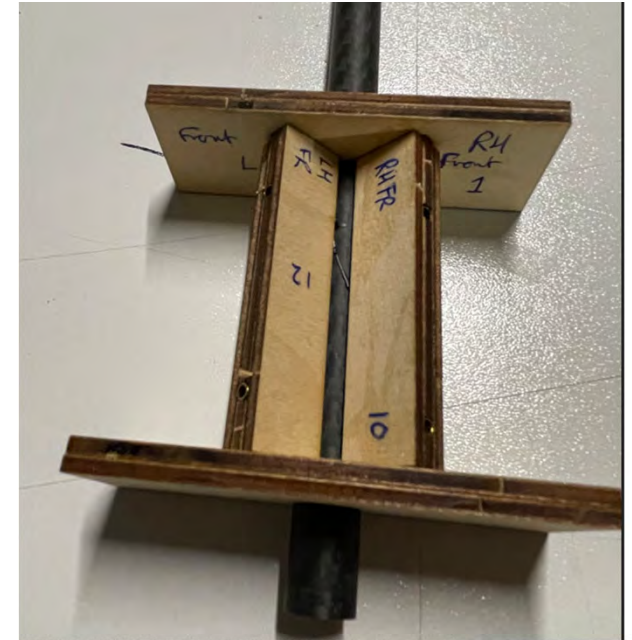
Once the glue is dry, remove the boom and use thin CA on all the joints for a good bond.

Glue in place items 10 and 12 as shown

With the boom removed, use a 2mm drill bit to drill through the brass tubes and through the plywood support to make a continuous hole in the jig.

Repeat for all 4 brass hole locations.

The jig is now complete.

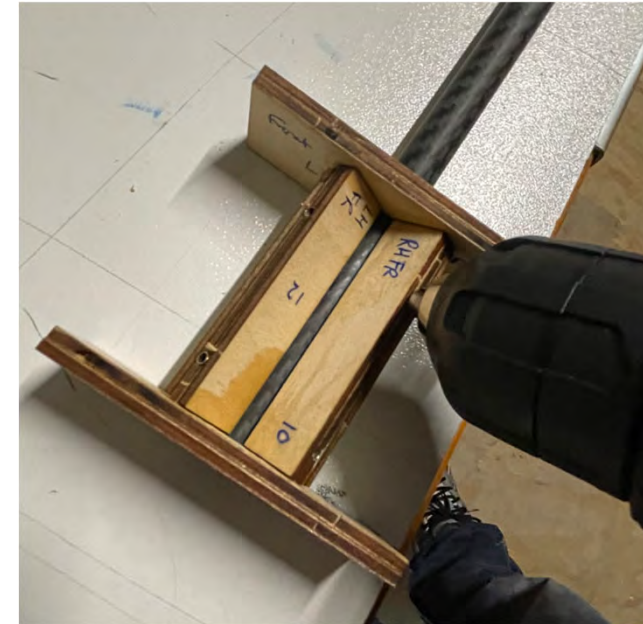
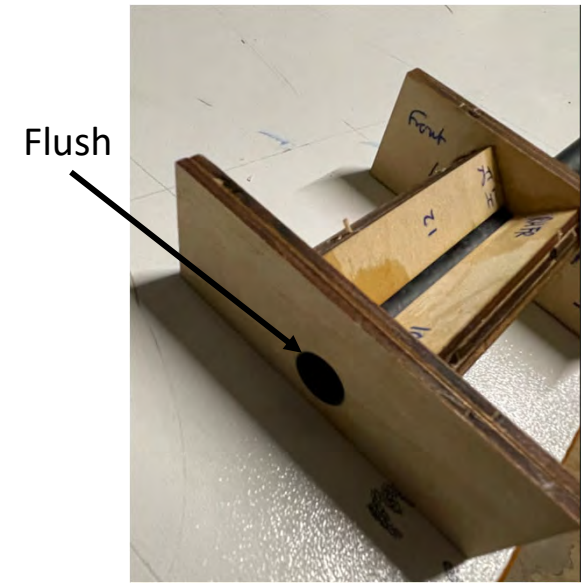


To use the jig:

1. Insert the boom into the jig until it is flush with the rear face of the jig.
2. With a 2mm drill bit, and light pressure, SLOWLY drill through both the top side of the carbon boom and the bottom side of the carbon boom.

Do this for only 1 brass hole location

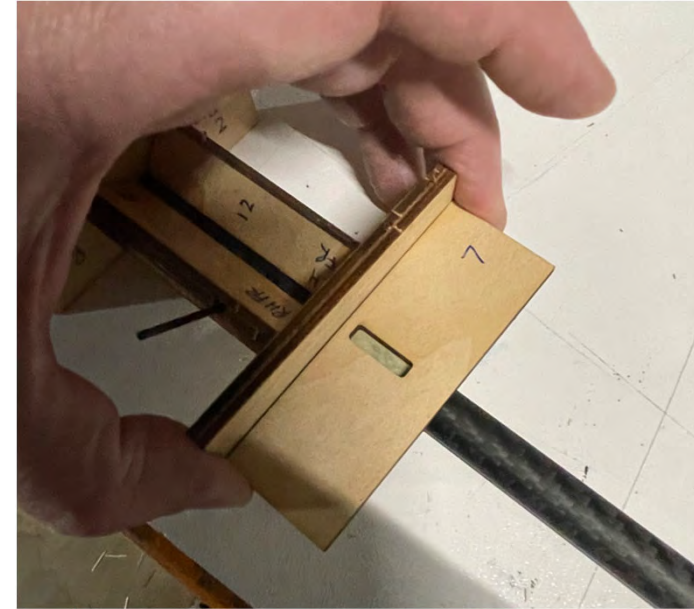
Note: Lengthen the bit in the chuck if the bit is not long enough to pass all the way through the carbon boom.



3. Slide one of the 2mm carbon rods through the hole just drilled. It passes through the jig and completely through the carbon boom. This stops the carbon boom rotating while the remaining 3 holes are drilled.
4. Drill through the remaining 3 brass tubes. Ensure the drill bit passes all the way through the carbon boom to the other side. Drill slowly.
5. With the 2mm carbon alignment rod still in place, wrap masking tape around the carbon boom at the front of the jig as shown



6. Hold piece number 7 over the top of the boom as shown.



7. Using a pen, draw the pull/pull cable exit on the masking tape.

This is also extremely important in marking the top of the boom to ensure the correct orientation of the carbon rods and the correct angle of the v tail.





Remove the 2mm carbon locator rod and remove the boom from the v tail drill jig.

Check to ensure there are a total of 8 holes drilled in the boom.

The boom v tail drilling process is now complete.