

# MI-8 mechanics assembly manual

**We recommend loctite on all bolts before first flight**

(Screws M2.5 on all gearboxes are pre glued from factory)

## Recommended setup for Goblin mechanics:

		<i>Example</i>
Motor:	300 KV	(X-NOVA 4035/4Y - 300KV )
Motor pulley	23T	(SAB H0015-23-S or H0175-23-S)
Heli speed controller	80 A	(Kontronic Jive 80+)
Battery Li-Po	12 S	(Gens Ace 5000 mAh)
Main blades	840 mm	(HELITEC HT-5G-840/53)
Tail blades	130 mm	(HELITEC HD-3G-130)

**Head rotation speed 900 - 1000 rpm**

## Assembly of SAB Goblin mechanics:

For complete this mechanics you need this parts:

Tail rotor 3 blade	H0429	Main gear	H0405
Servo support	H0010	Pinion T19	H0156
Column	H0018	Bearing	HC422
Bearing support	H0024	Bearing	HC426
Motor mount	H0142	Secondary shaft	H0157

Now you can decide between two versions:

### Standart belt version (Goblin770)

One way pulley	H0104
Front tail pulley	H0101
Motor pulley 23T	H0015-23
Motor belt	HC308

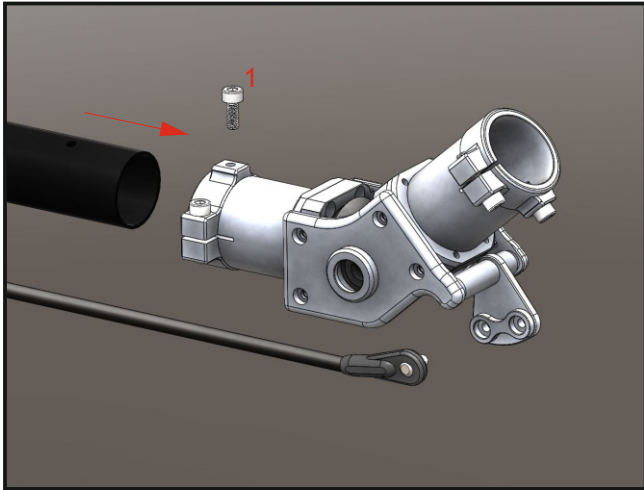
### Big belt version(Goblin770 Competition)

H0171
H0172
H0175-23
HC309

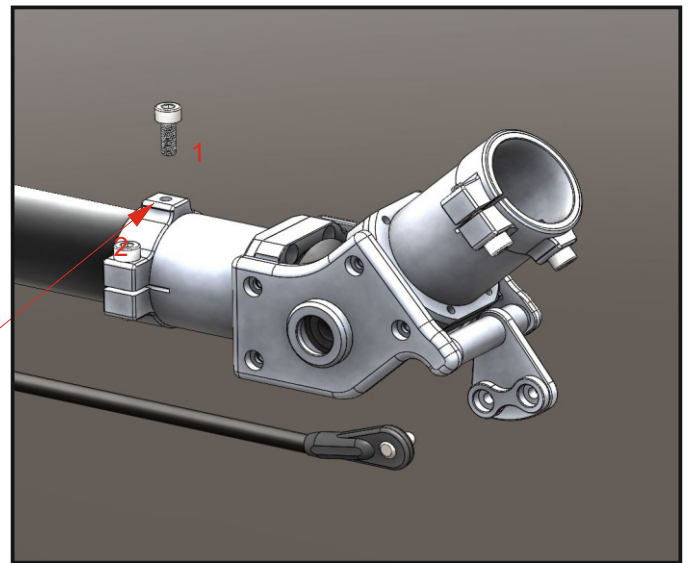
**For assembly please use original SAB Goblin manuals**

For Standart belt version [Goblin770 manual](#)

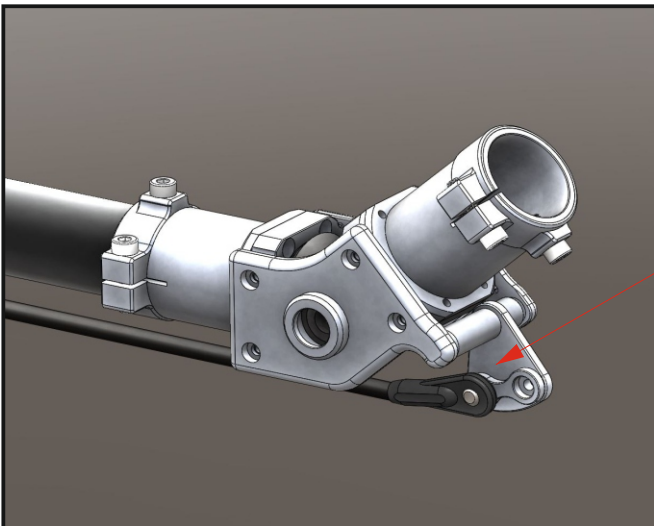
For Big belt version [Goblin770-Competition manual](#)



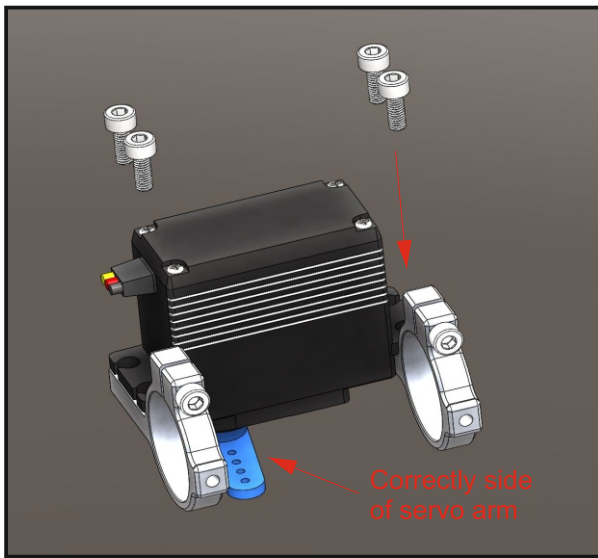
1. Remove screw #1
2. Insert the tail tube into the intermediate gearbox as shown



3. Drill a 2.5mm hole through the tail tube
4. Tighten screws #1 and #2



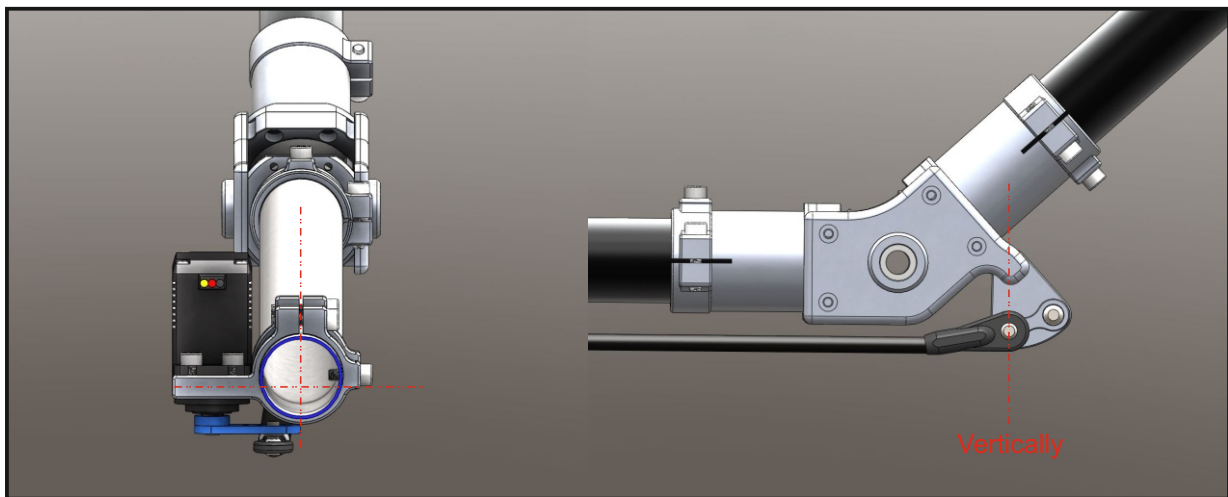
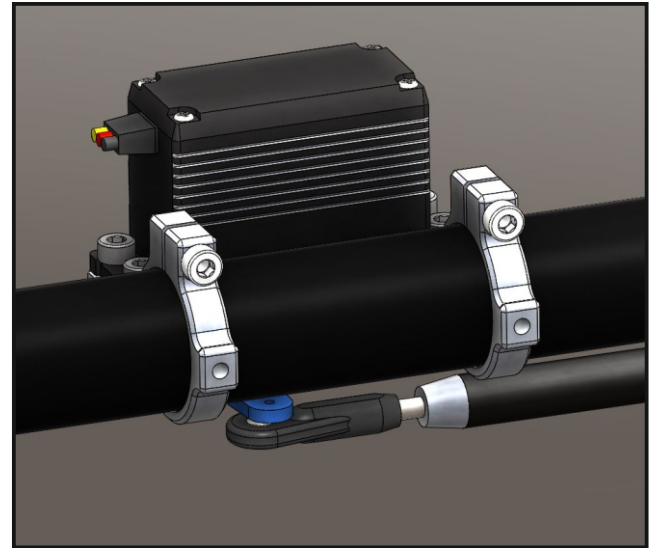
5. Fit the tail rotor push rod and ball



6. Screw the servo to the tail servo mount as shown

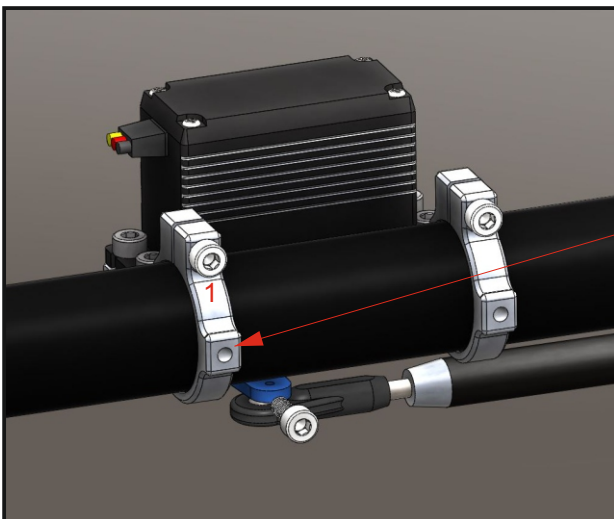
7. With the servo arm at right angles to the servo  
The ball is 16mm from servo screw

8. Slide the servo mount onto the tube and attach the push rod



9. Adjust the servo mount position.  
The servo mount should be as shown

10. The position of the servo mount on the tail tube should be so that the push rod is as shown

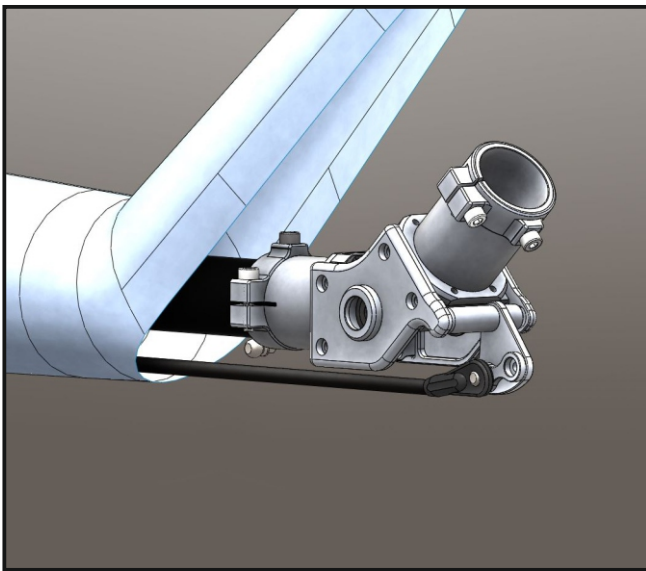


11. When the position is correct tighten the servo mount screw #1

12. Drill a 2.5mm hole through the tube

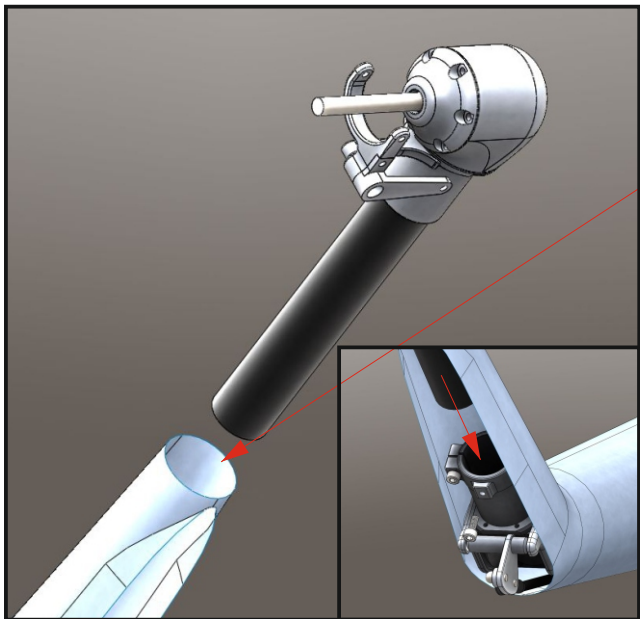
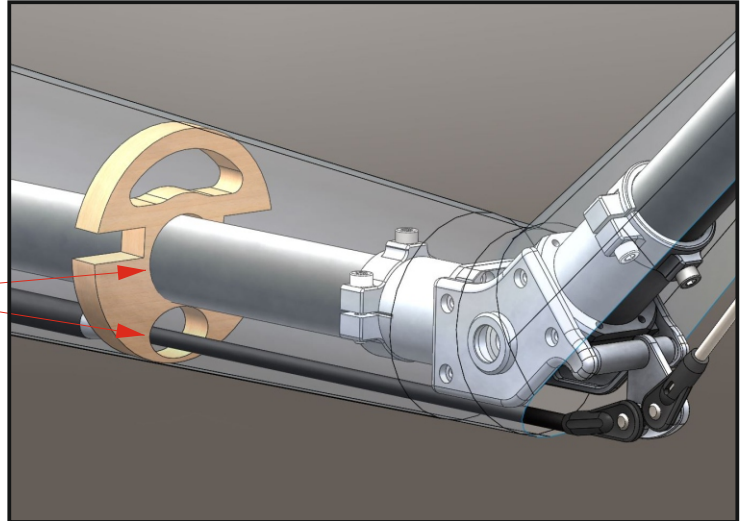
Now you have ready good position of tail servo for next easy assembly ...

13. Slacken screw #1 and remove the servo mount from the tube



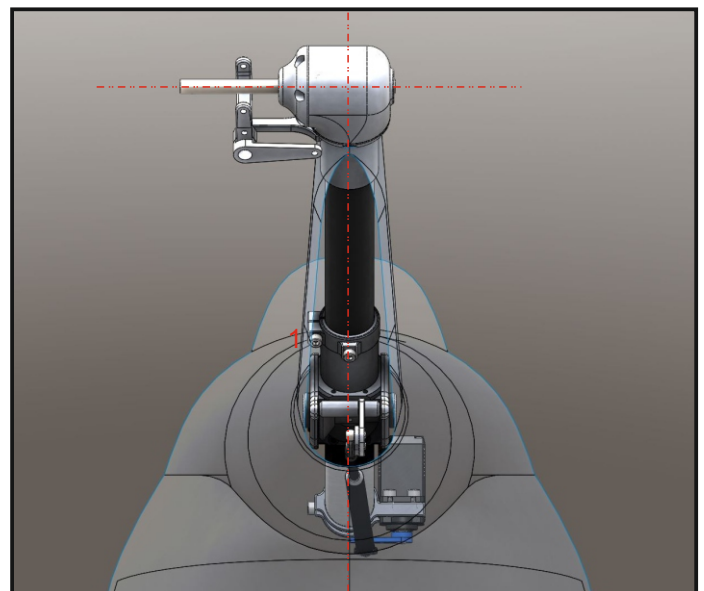
14. Insert the tube from the back to the fuselage  
(Gently stretch the rear of the fuselage)

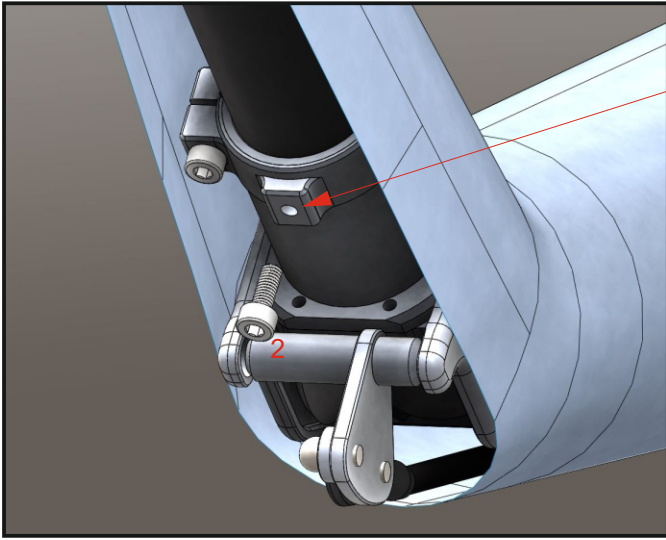
15. If necessary sand the holes in the former to allow a perfect fit



16. Cut a 25mm hole in the fin for the gearbox
17. Insert the tail gearbox and upper tube into the intermediate gearbox

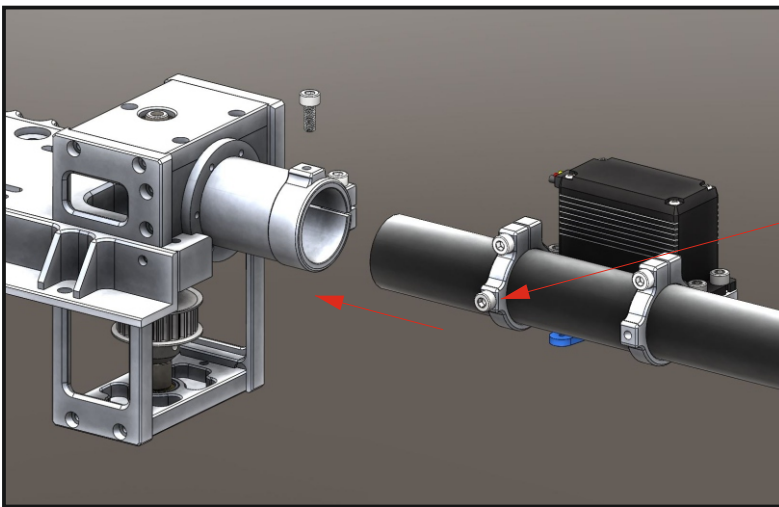
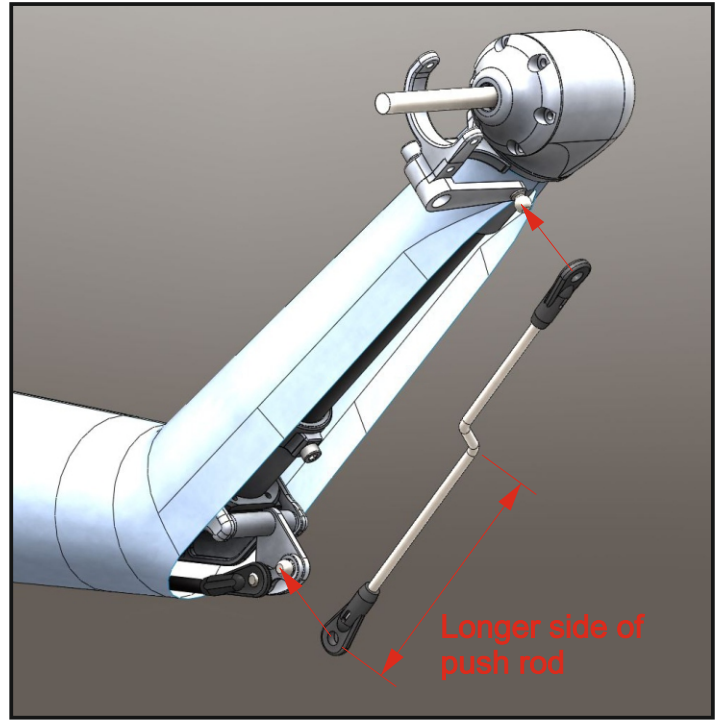
18. Carefully adjust the tail gearbox position as shown
19. Tighten the upper tube clamp #1





- 20. Drill a 2.5mm hole into the tube as shown
- 21. Tighten screw #2

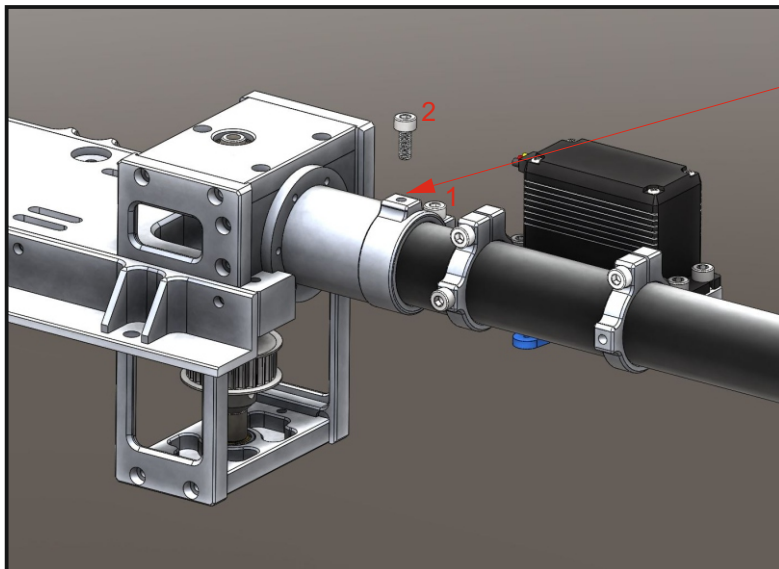
22. Fit the tail push rod



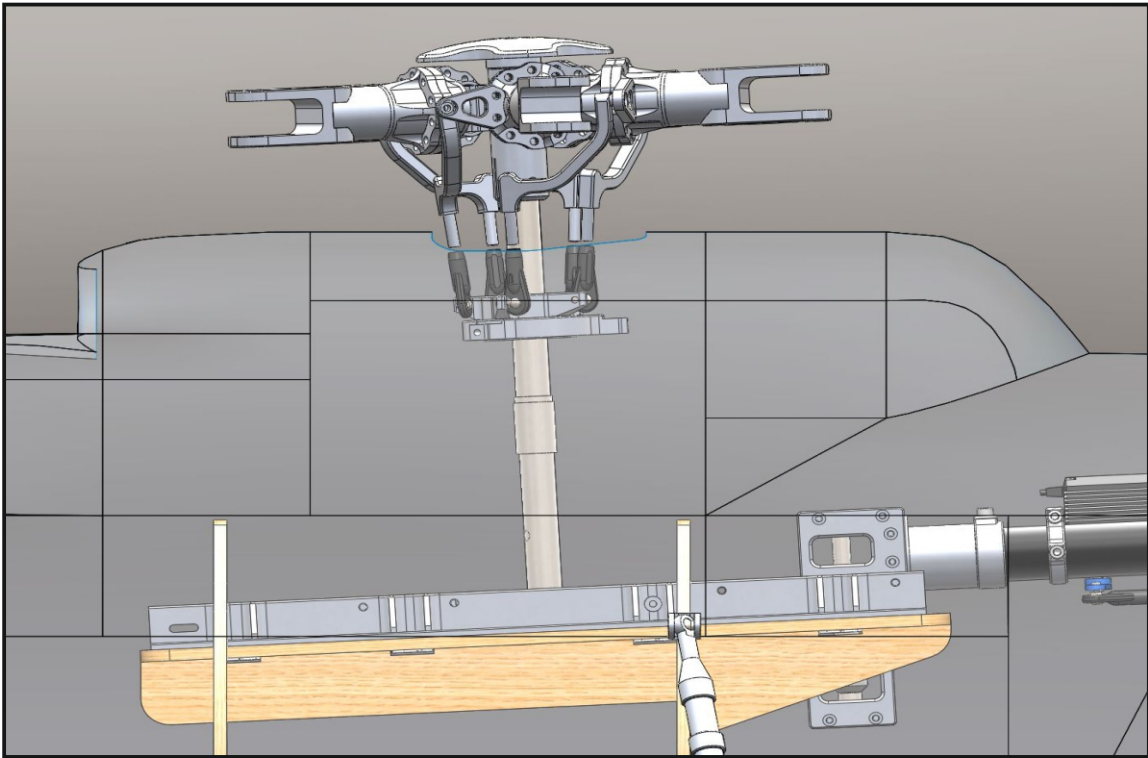
- 23. Slide the tail servo mount onto the boom  
(You are win, because you have pre-drilled hole for good position)

24. Tighten all 3 screws

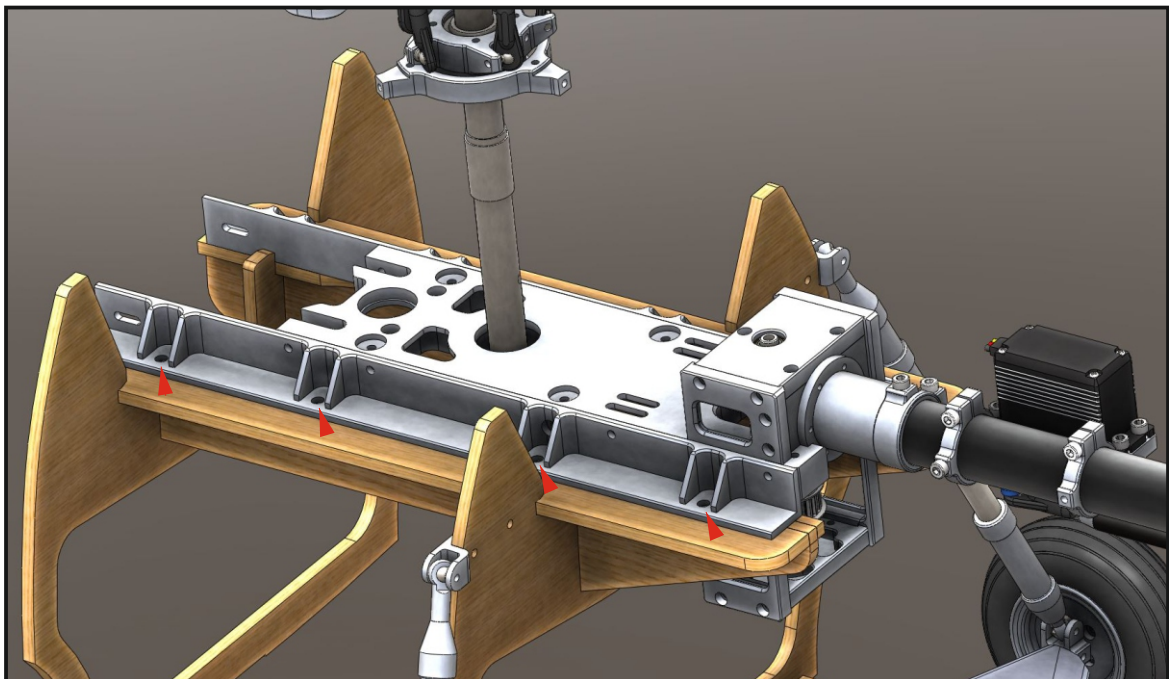
25. Insert the boom into the main gearbox



- 26. Drill a 2.5mm hole into the tube as shown
- 27. Tighten screws #1 and #2



Optimal main shaft position



28. Screw main mechanics to the plywood base by screws 8 x M4