



Neon Series

GN3-4011/12



Conversion Kit



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Preface

Thanks for purchasing Guru-Z products. The Conversion Kit is a strengthened and durable frame for most 300 class helicopter. Please read the manual carefully before assembling the model. You may always get the latest online version of the manual via <http://www.guru-z.com/download/manual/GN3-4011.pdf>

Key Features

- Provide a platform for pilot to use their own rotor head and modify to suit their needs
- Compatible with most of the 300class EP helicopter rotors in the market.
- Rigid Frame structure and strong Motor mount
- 12mm tail boom adapt TREX / Compy / Shaman Parts
- Durable and elastic landing skid

Tools needed

- 1.5mm philip "+" head screwdriver
- 1.5mm Hex driver
- Plier
- Loctite
- Grease

Notes on screws type

- Please use the screws carefully. Types of Screws used are shown below.

CB	HM	PWB	PM



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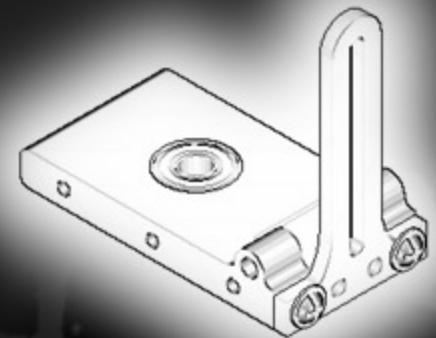
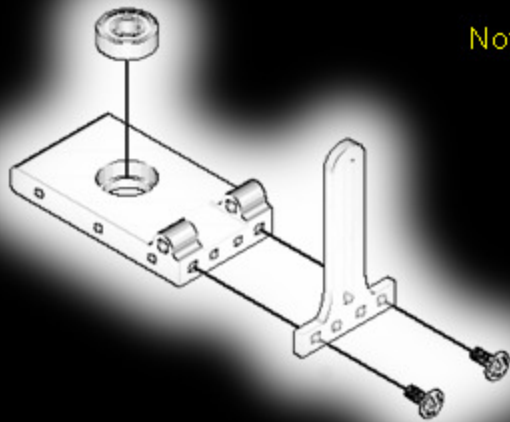
Step 1

Screws Used	
CB 1.7 x7mm	2 pcs
Bearing Used	
3x8x2.5mm	1 pcs

Note: Install the Anti-rotation bracket and the bearing as shown.

The size of bearing depends on the shaft you used. It should be either 3x8x2.5 or 5x8x2.5mm

There maybe a need to sand / cut the Anti-rotation bracket a bit, depends on what kind of rotor head you are using.





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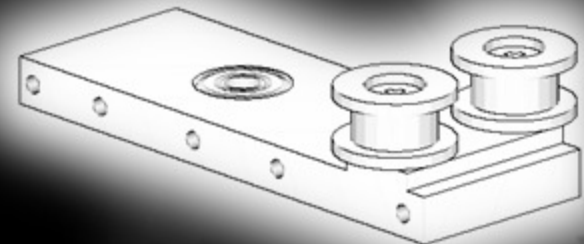
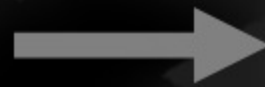
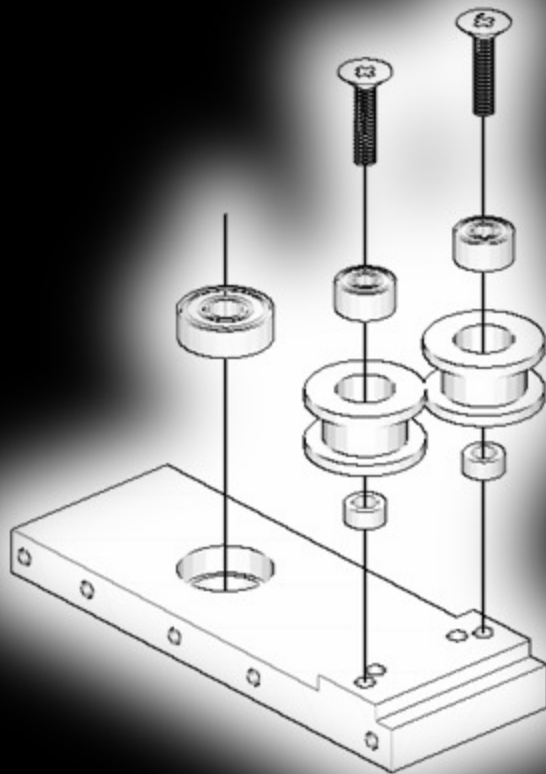
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Step 2

Screws Used	
HM2 x6mm	2 pcs
Bearing Used	
5x8x2.5mm	1 pcs

Note: Install the Belt guide as shown. Make sure the belt guide can be rotated freely after securing the screws.

For any rotating parts, loctite is recommended. Otherwise, please check the screw before every flight.





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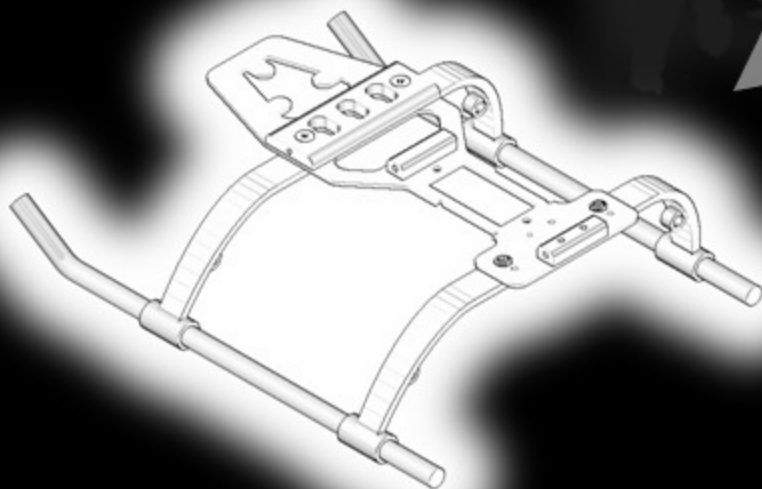
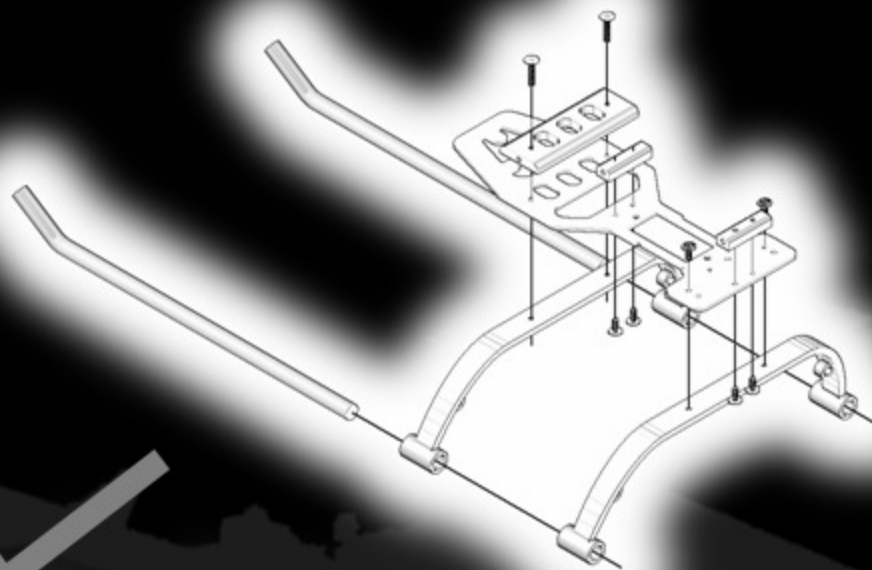
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Step 3

Screws Used	
PWB 1.7 x4mm	6 pcs
CB 1.7 x7mm	2 pcs
Bearing Used	
-	-

Note: Install the lower part of the frame.





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Step 4

Screws Used

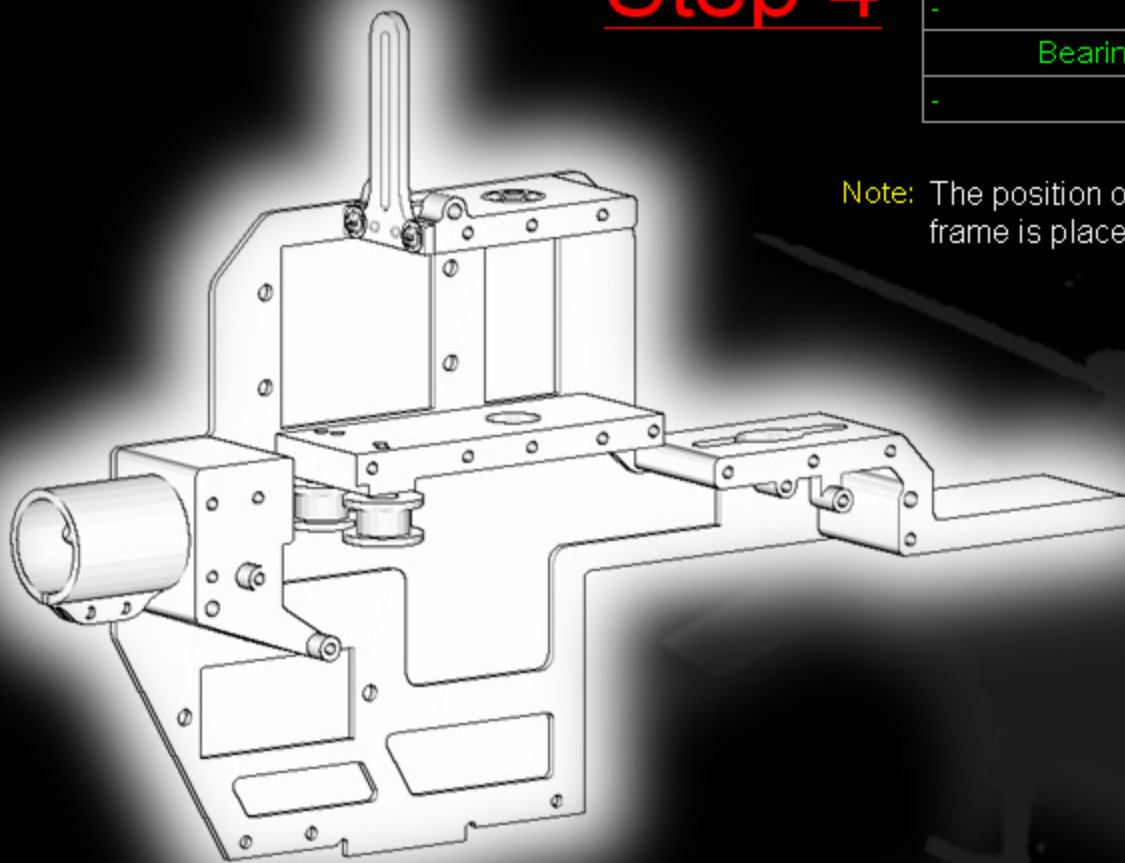
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-

Bearing Used

-

-



Note: The position of the parts of the main frame is placed as shown.



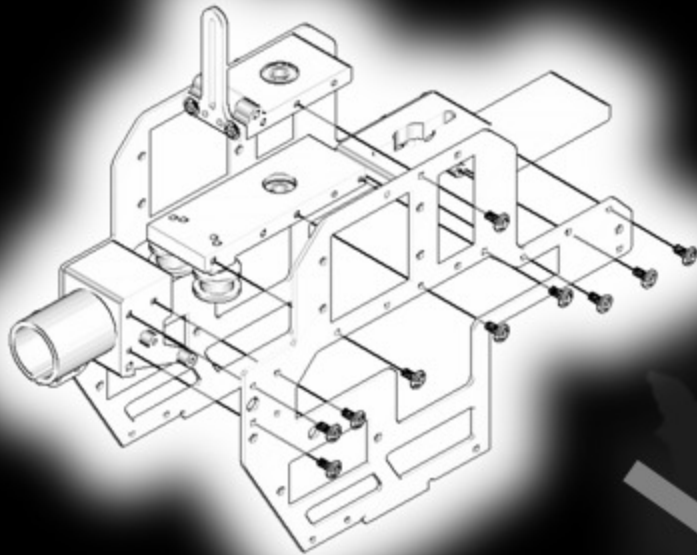
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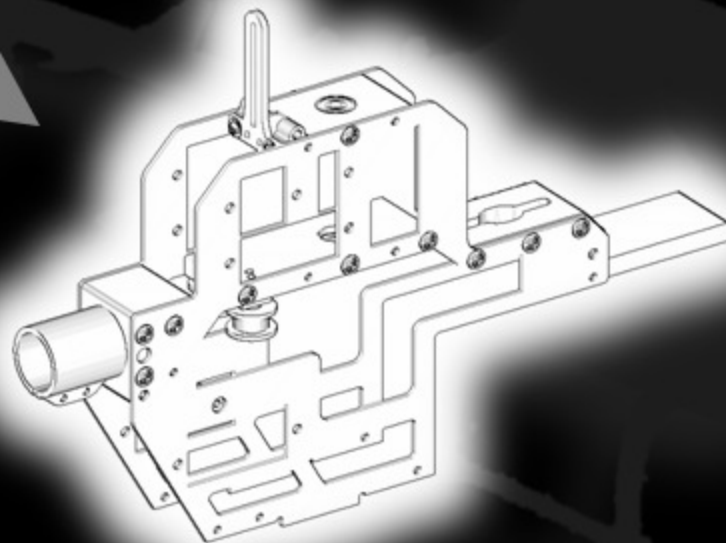
Step 5

Screws Used	
PWB 1.7 x4mm	20 pcs
Bearing Used	
-	-



Note: Secure the Fiber board with the screws. Note that not all holes need a screw at this stage.

Install the servo before this step will be easier if you do not have a tiny philip(+) screwdriver





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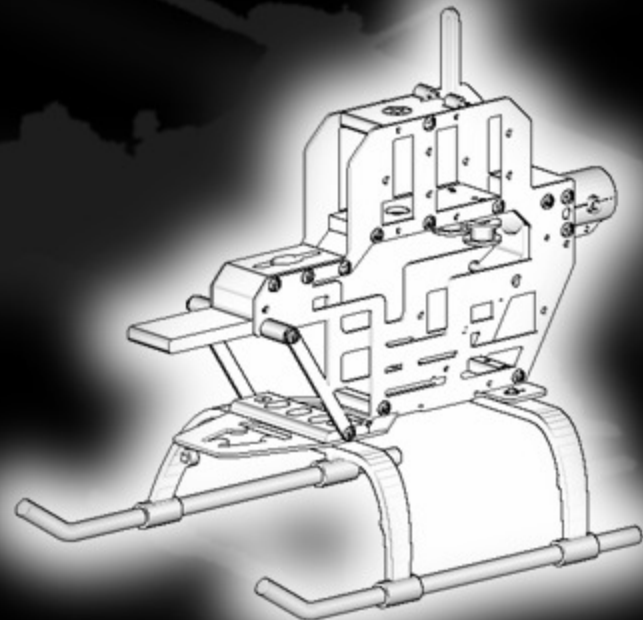
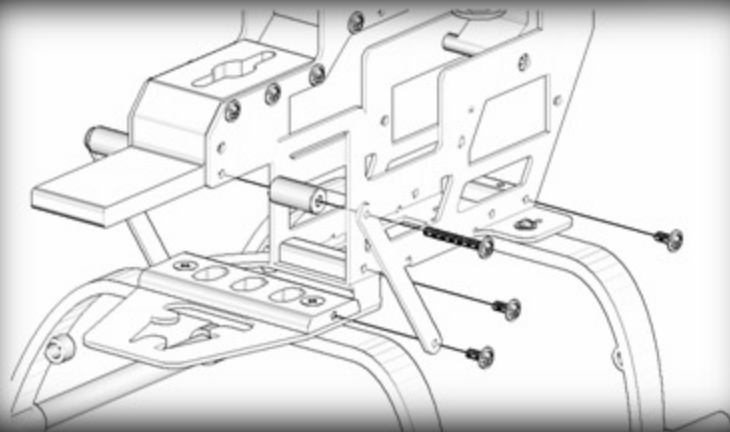
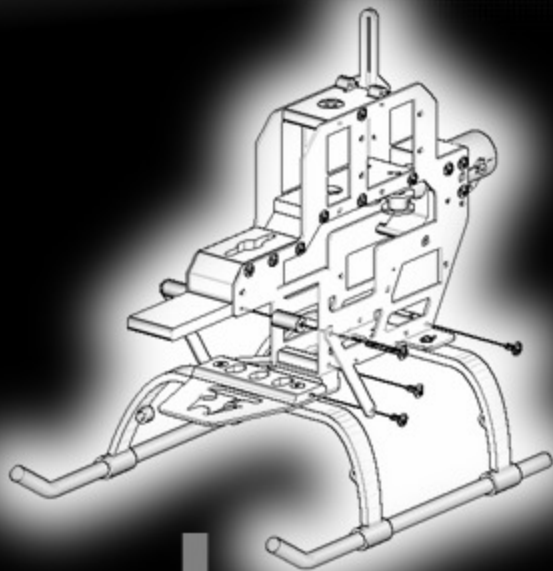
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Step 6

Screws Used	
PWB 1.7 x4mm	6 pcs
PWB 1.7 x14mm	2 pcs
Bearing Used	
-	-

Note: Combine the upper and lower frame.





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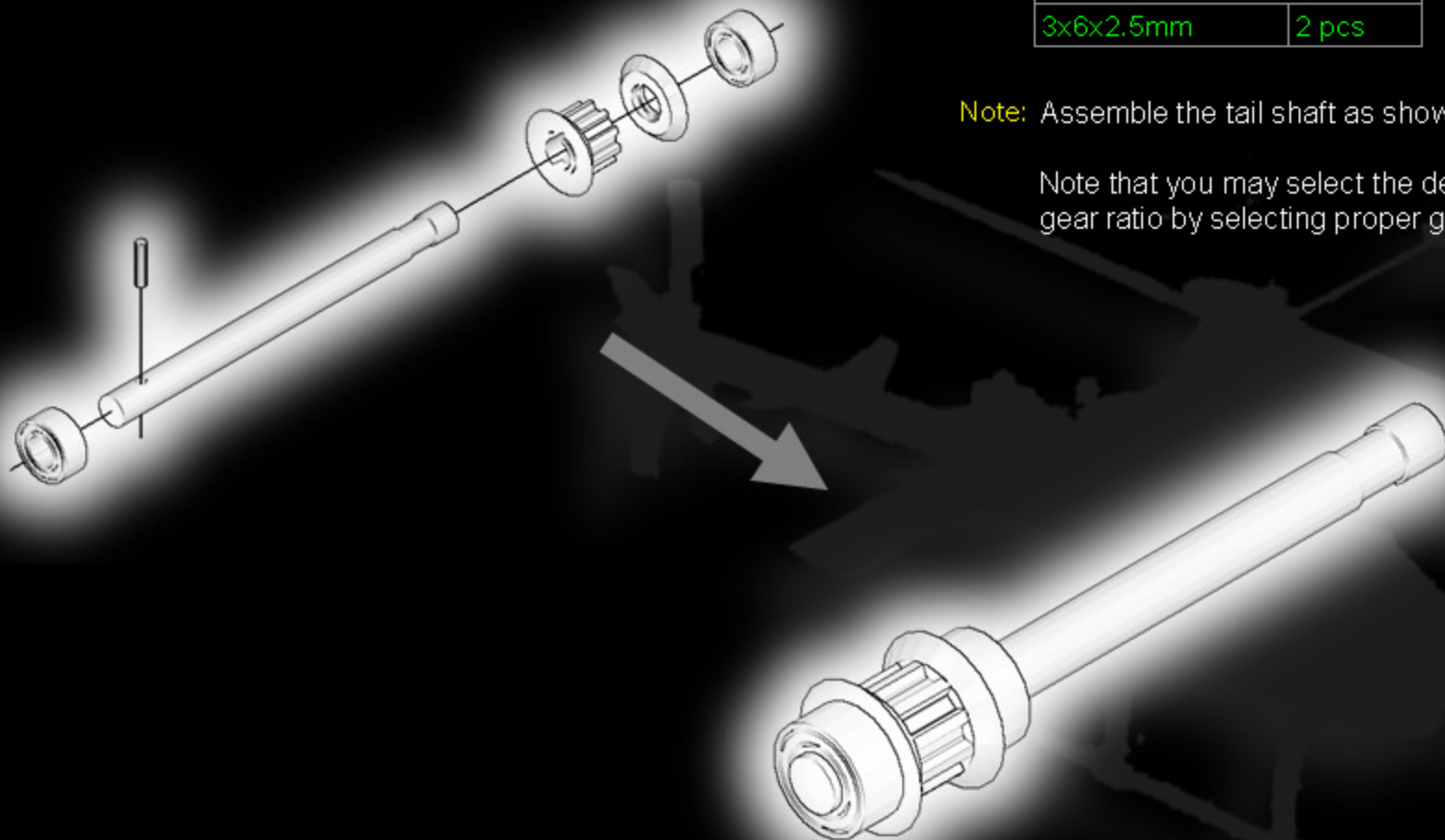
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Step 7

Screws Used	
-	-
Bearing Used	
3x6x2.5mm	2 pcs

Note: Assemble the tail shaft as shown

Note that you may select the desired gear ratio by selecting proper gear.





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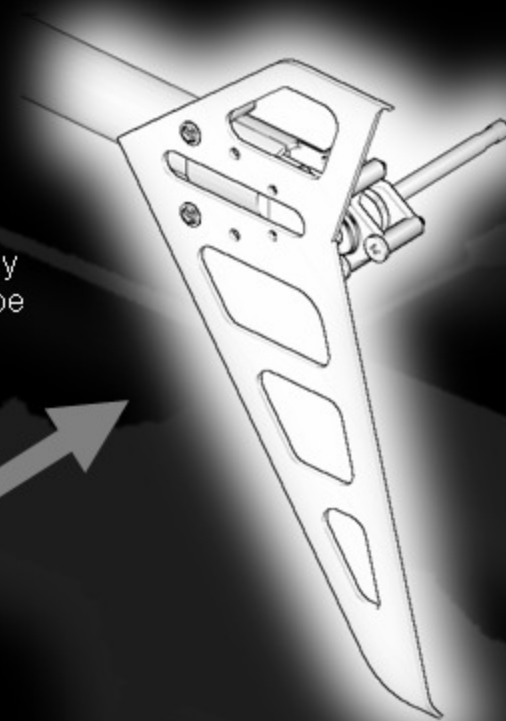
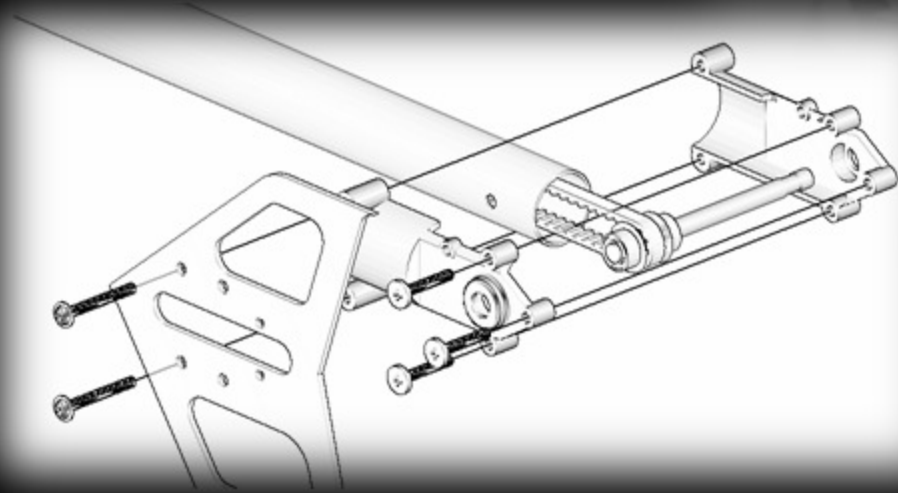
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Step 8

Screws Used	
PWB 1.7 x14mm	2 pcs
CB 1.7 x10mm	3 pcs
Bearing Used	
-	-

Note: Install the tail boom, belt, and the tail frame.

When secure the tail frame, make sure the shaft can be freely rotated. If not, apply the included bushing. The shaft **MUST** be able to rotate freely.





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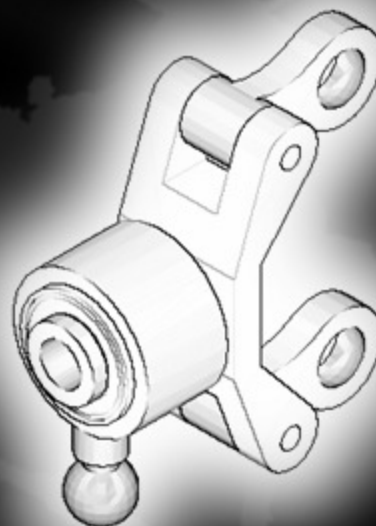
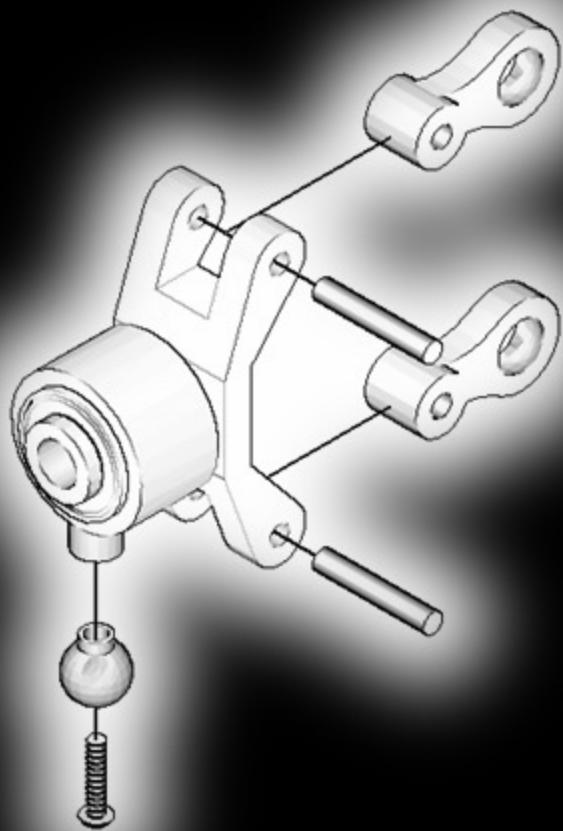
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Step 9

Screws Used	
PWB 1.4x6mm	1 pcs
Bearing Used	
-	-

Note: Install the ball link to the Tail pitch slider. One side of the ball link is easier to get into the ball. If you find it is too hard to plug it in, you may need to reverse the ball link.





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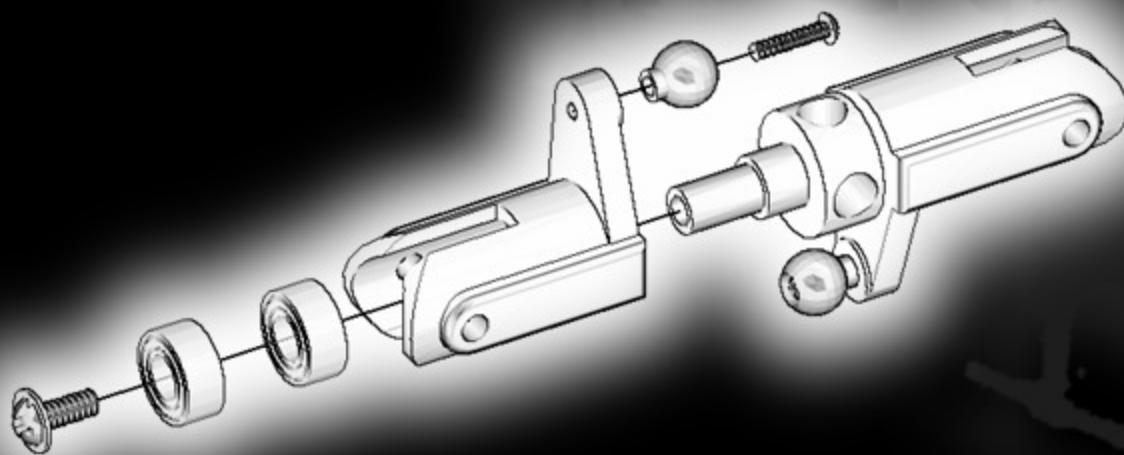
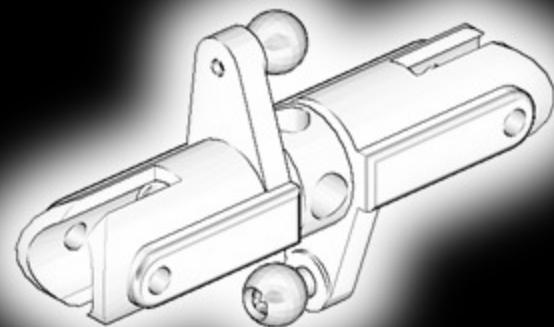
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Step 10

Screws Used	
PWB 1.4x6mm	2 pcs
PWM 1.4x4mm	2 pcs
Bearing Used	
3x6x2.5mm	4 pcs

Note: Install the tail blade grip to the hub. There are 2 bearings to be installed for each blade grip in this double bearing design. (a total of 4 bearings)





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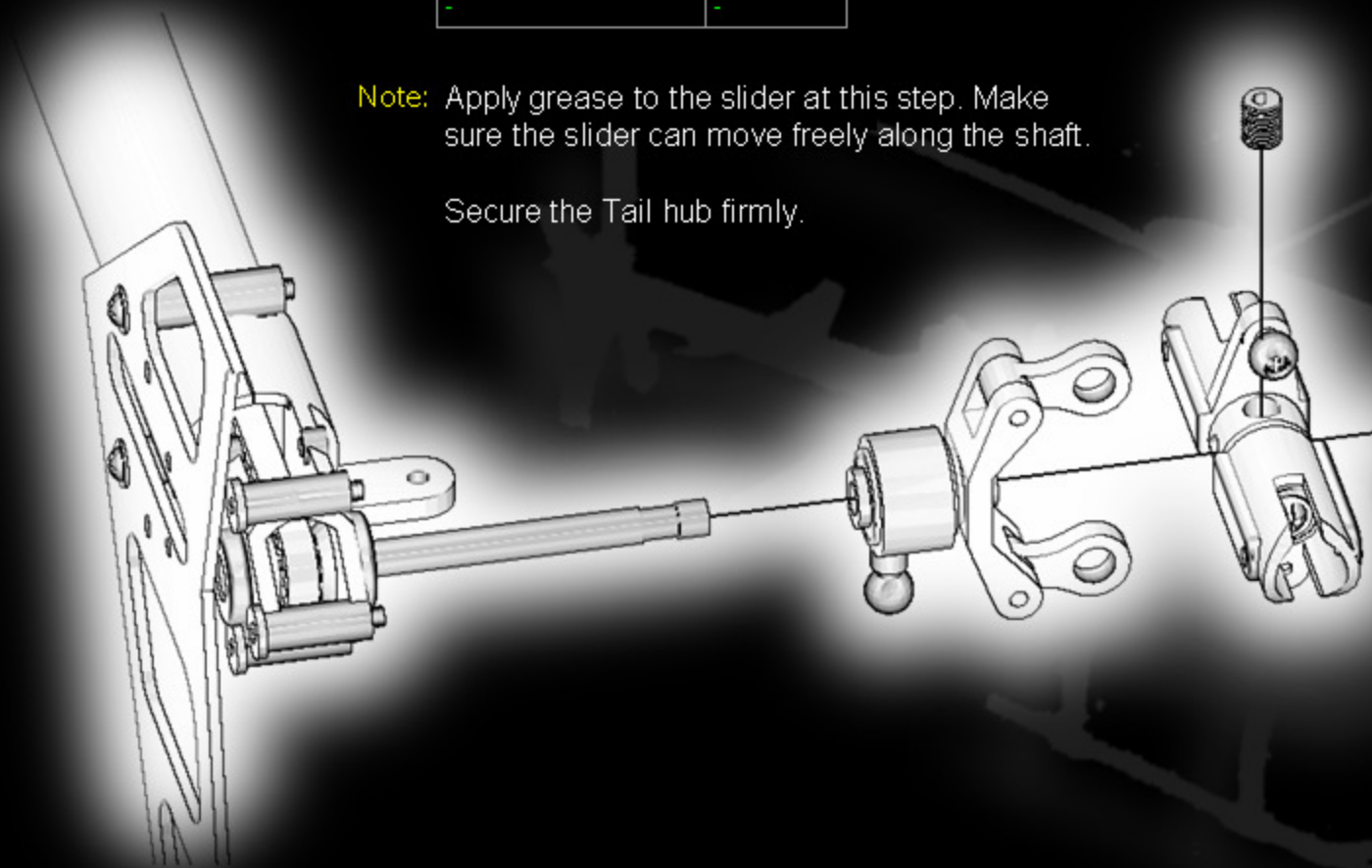
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Step 11

Screws Used	
-	-
Bearing Used	
-	-

Note: Apply grease to the slider at this step. Make sure the slider can move freely along the shaft.

Secure the Tail hub firmly.



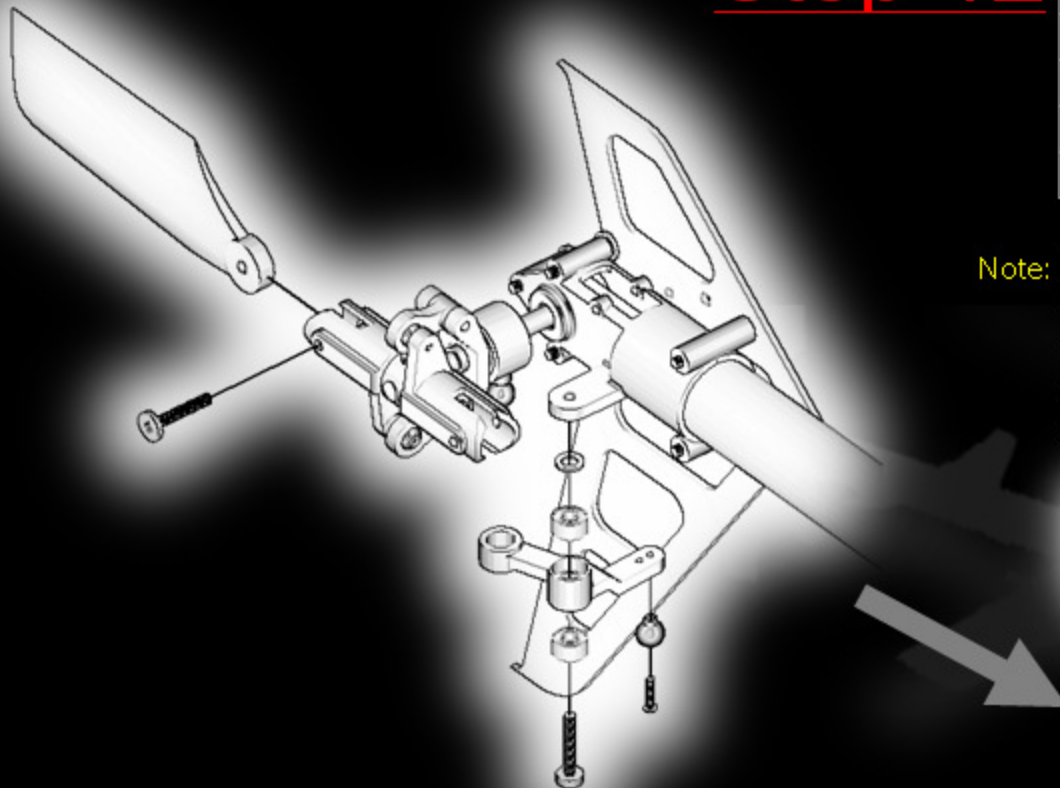


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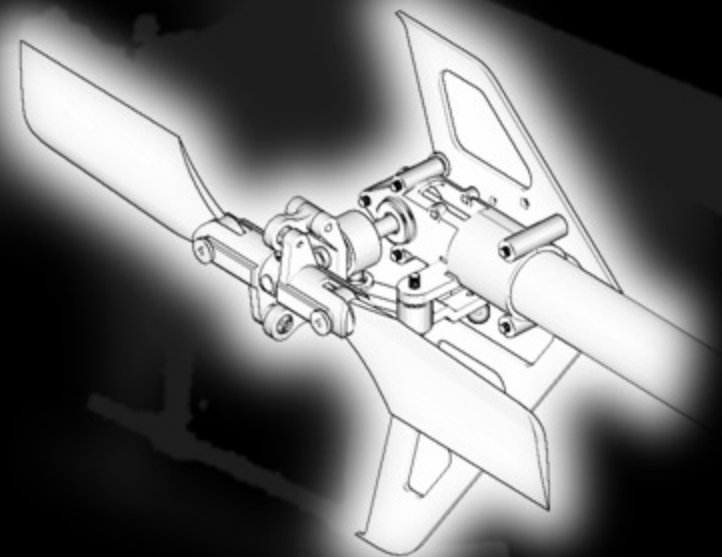
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Step 12



Screws Used	
PWB 1.4x16mm	1 pcs
CB 1.7x10mm	2 pcs
HM 2 10mm	1 pcs
Bearing Used	
-	-

Note: Install the tail blade and the L-Arm as shown. Note that there are 2 holes at the L-Arm. Depends on the configuration of your helicopter, use the appropriate hole. Install the ball to the hole near the bearing will give you faster response but easier to hunt.





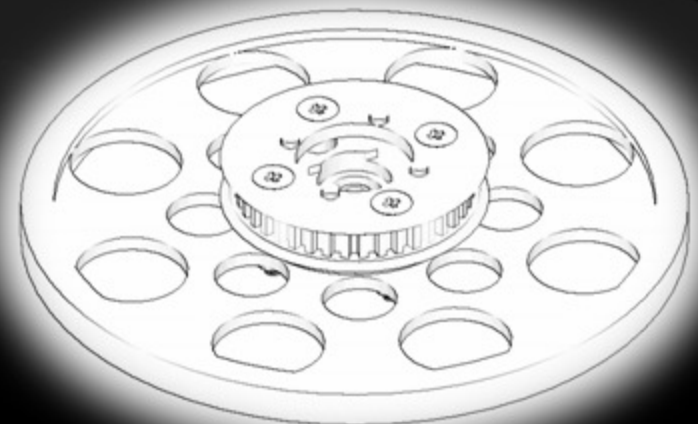
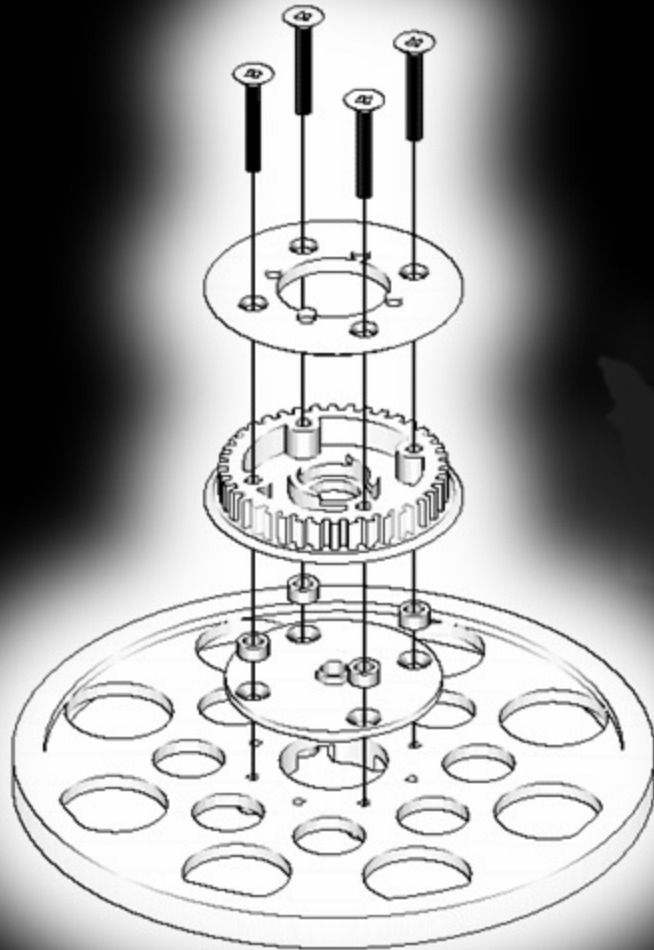
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Step 13

Screws Used	
CB 1.7 x10mm	4 pcs
Bearing Used	
-	-



Note: The main gear and the belt gear is shown in the diagram. Apply bushing to adjust the alignment of gear if there is any problem.

* optional belt gear can be used to achieve desired Gear Ratio.



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Final Step

Note:

Install the main gear to the main frame. Insert the spacer between the main gear and the frame.

When installing the main gear, make sure the belt is not jammed inside the boom. Also make sure both the main rotor and tail rotor rotates in the correct direction.

