# Manual LOGO 700

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Thank you very much for your purchase of the Mikado LOGO 700. Prior to installation, please read and understand this manual completely and follow all instructions exactly. If any instructions are not clear to you or if you have any questions, you must contact us. You can reach Mikado on the LOGO-Forum on www.vstabi.info or contact the Mikado support hotline via email or phone. Do not under any circumstances fly this helicopter if you are unsure of setup or assembly.

This helicopter is not suitable for beginners. It is expected that you have some experience in assembling and operating an RC helicopter (model size LOGO 400 to LOGO 600, for example). You are required to adhere to the safety instructions of this manual.

The LOGO 700 comes partially pre-assembled, i.e. the structural components are already screwed together. However, the screws are not yet secured with Loctite. Throughout the manual you will not always be asked to secure each screw. Nevertheless, you must secure all screws in all components yourself. In addition, it is necessary that you secure all other screwed connection, by which you will assemble the different components of the LOGO. We recommended to use securing glue Loctite 243 (blue). Please follow the recommendations of the Loctite manufacture and allow proper curing time for the Loctite prior to flying the model.

#### Safety Instructions:

RC Helicopters are not toys and must be treated with due diligence. Unless you use this helicopter responsibly it can cause of severe injury and immense damage. Inappropriate use of this product can result in injury or death. Each user must have the appropriate knowledge and skill to operate any RC Helicopter. Manufacturer / reseller assumes no liability for the use or operation of this helicopter.

You are responsible for any injury and damage that may be caused by this helicopter. It is recommended that your radio components be tested prior to installing in this helicopter. Improper radio installation or inadequate battery voltage can result in the loss of control of the helicopter. Proper knowledge of your radio equipment is required prior to flying this helicopter. You must check if other persons are using an RC-controlled model or device simultaneously, as this may result in interference. If the helicopter behaves in an unusual or strange way, you must land it immediately and turn off the power. Please meticulously check all of your radio gear and find/fix the problem before you continue to operate the helicopter This is to avoid any accidents. As one irregularity can cause other defects or problems, an increased risk of failure will ensue, if the first problem is not fixed.

Additional precautions for the prevention of injuries or damage: Before you power on the helicopter, you must ensure that all screws and associated hardware are secured. One single lose screw can cause the helicopter to become uncontrollable resulting in a crash or injury to personnel.

Also it is very important that you must check the model frequently and exchange any parts that show signs of deterioration or wear. Failure to complete frequent pre and post flight inspections will result in flying an unsafe model and increasing the risk of damaging the helicopter and possibly injuring yourself and/or others. Use only original Mikado parts and electronic components which are recommended by Mikado.

Always keep a minimum of 10 yards away from a spinning rotor head. Components that run hot such as the ESC and Motor should never be touched until ample cool down time has been provided. Perform overspeed maneuvers only at your own risk: overspeed maneuvers may overload the components on the helicopter and lead to damage/a crash/injury.

#### Before powering on the helicopter:

Never operate the helicopter inside closed rooms as this helicopter is intended for operation outside and may only be operated in sites where operation of Radio Control models is permitted. . Keep the helicopter at safe distance to any persons or live animals at all times. When trimming, keep a minimum distance of 10 yards for safety and never operate the helicopter alone. Always take someone with you, who can help in emergency situations. The helicopter must also not be operated in the following circumstances: • when children are present or in places where people are gathering

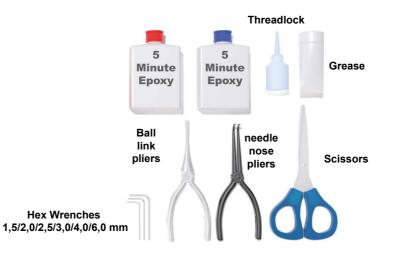
- close to houses or in park areas
- inside any rooms or buildings
- places with limited space
- in adverse weather conditions, such as rain, snow, hail or during strong winds
- Near trees or High Tension wires

#### Techical specifications which must be obeyed during the operation of the LOGO 700:

- maximum rotor head rpm: 2100 U/min.
- maximum pitch travel: +/- 12°
- Length of rotor blades: 690 to 717mm
- Lipo battery: 2x 6S 4.500 to 5.500 mAh
- admissible temperature 5° 35° Celsius

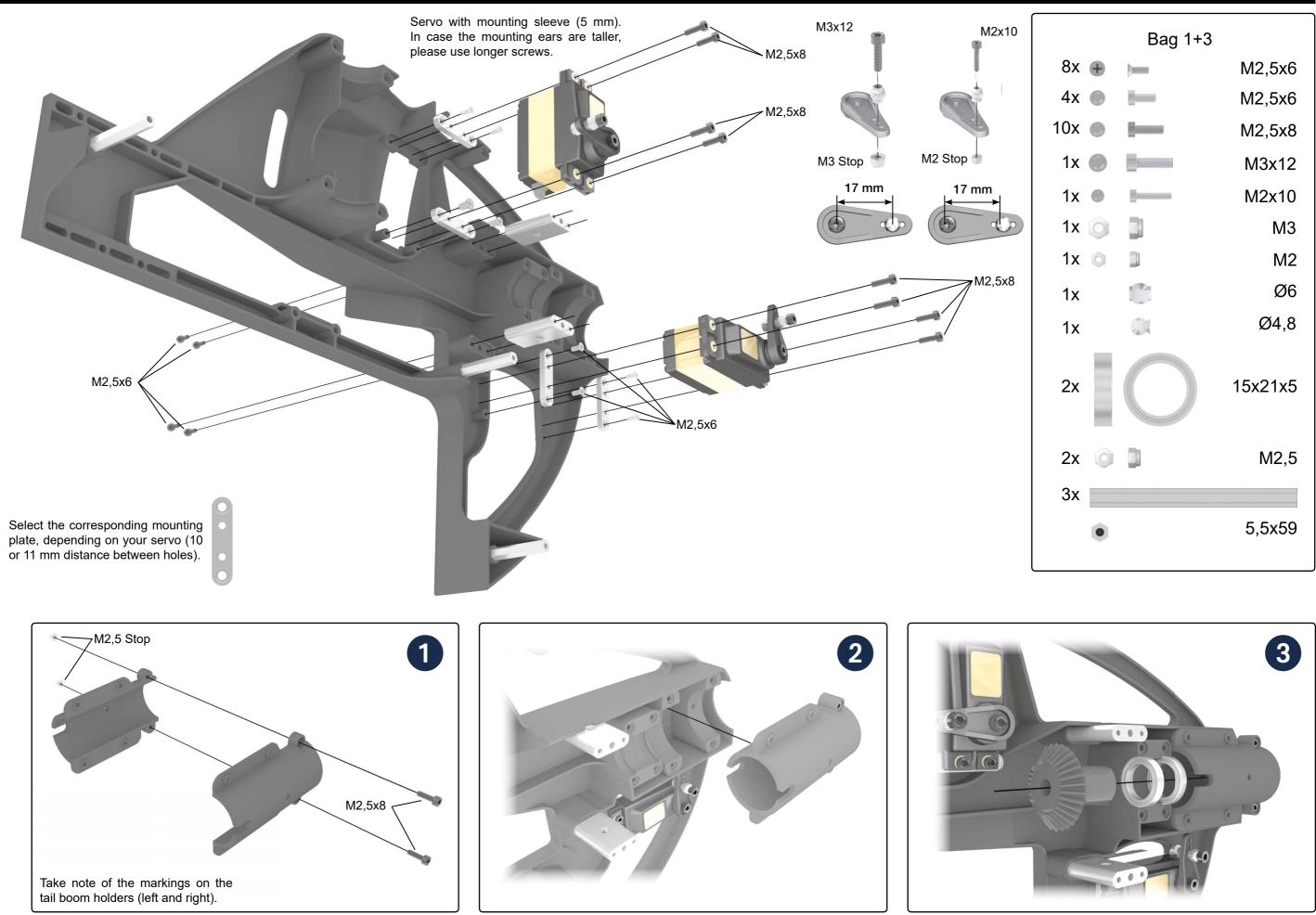
If these values are exceeded, the electronic components may experience overload. This may result in damage or a crash of the helicopter.

Before the first flight, you must check proper functioning of the motor, the ESC and the VBar. To do this, please refer to the respective manuals. For safety reasons, these tests should be performed without mounting the main rotor blades and the tail rotor blades. It is advisable to fly moderately during the first flights. This is because you need to get used to the new size of this helicopter during the first few flights. Do not underestimate the size and power of this helicopter. Keep a safe distance from the ground to provide for ample reaction time.



Pitch Gauge

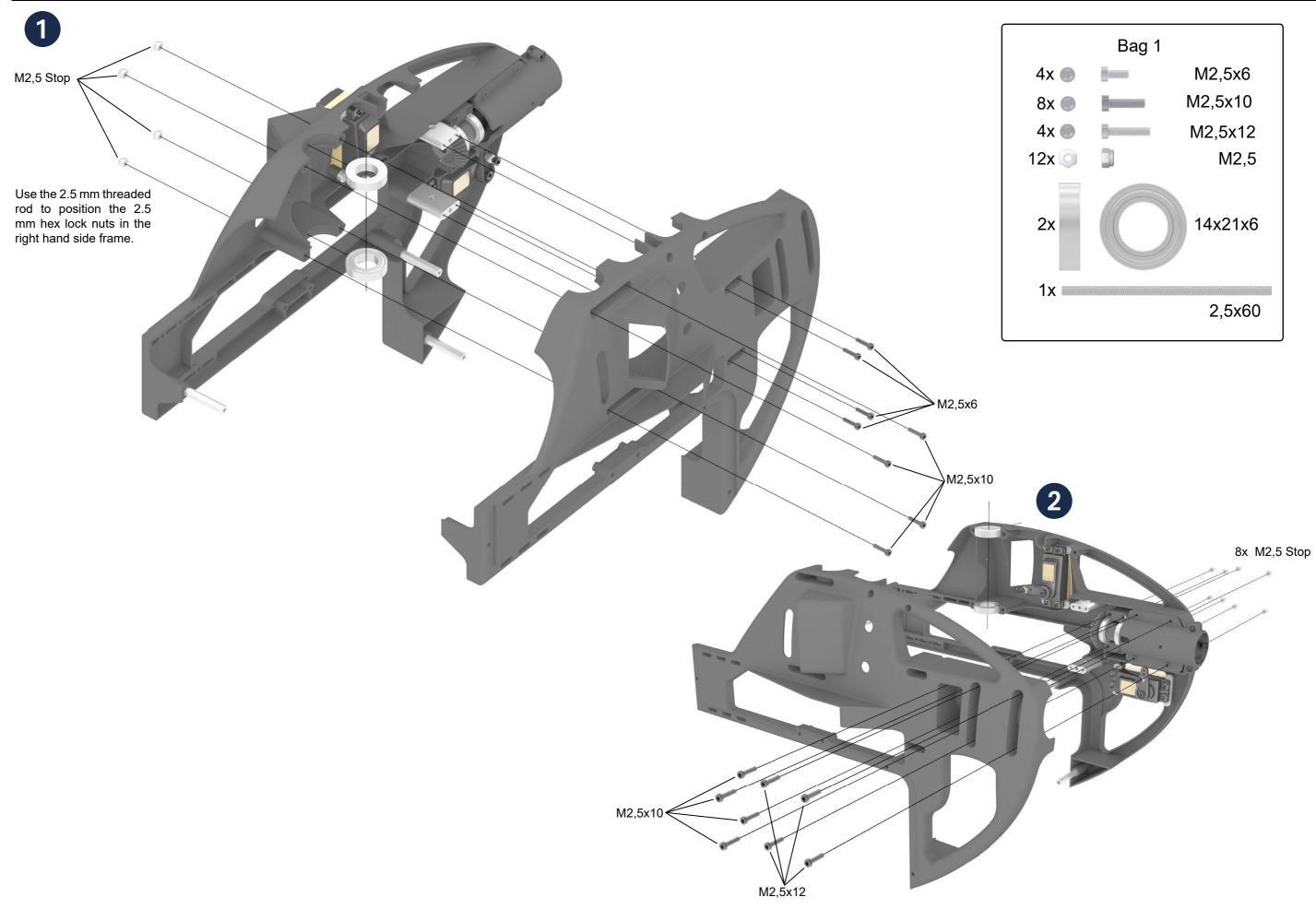




## 1 Chassis

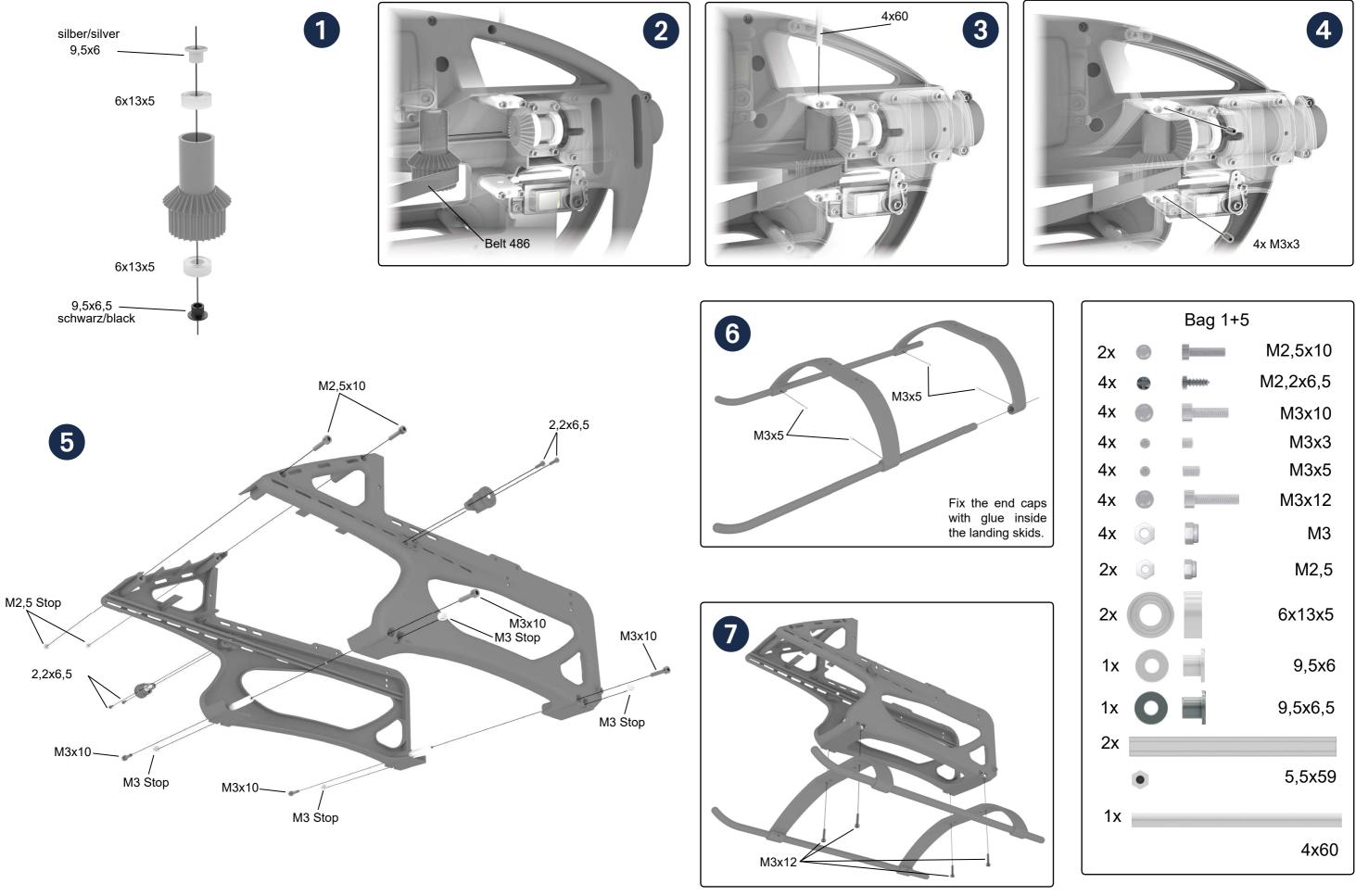
		Bag 1	1+3
8x	+		M2,5x6
4x			M2,5x6
10x			M2,5x8
1x		<u>annun nun</u>	M3x12
1x		tomana	M2x10
1x	0		M3
1x	0		M2
1x			Ø6
1x			Ø4,8
2x			15x21x5
2x	0		M2,5
3x			
	۲		5,5x59

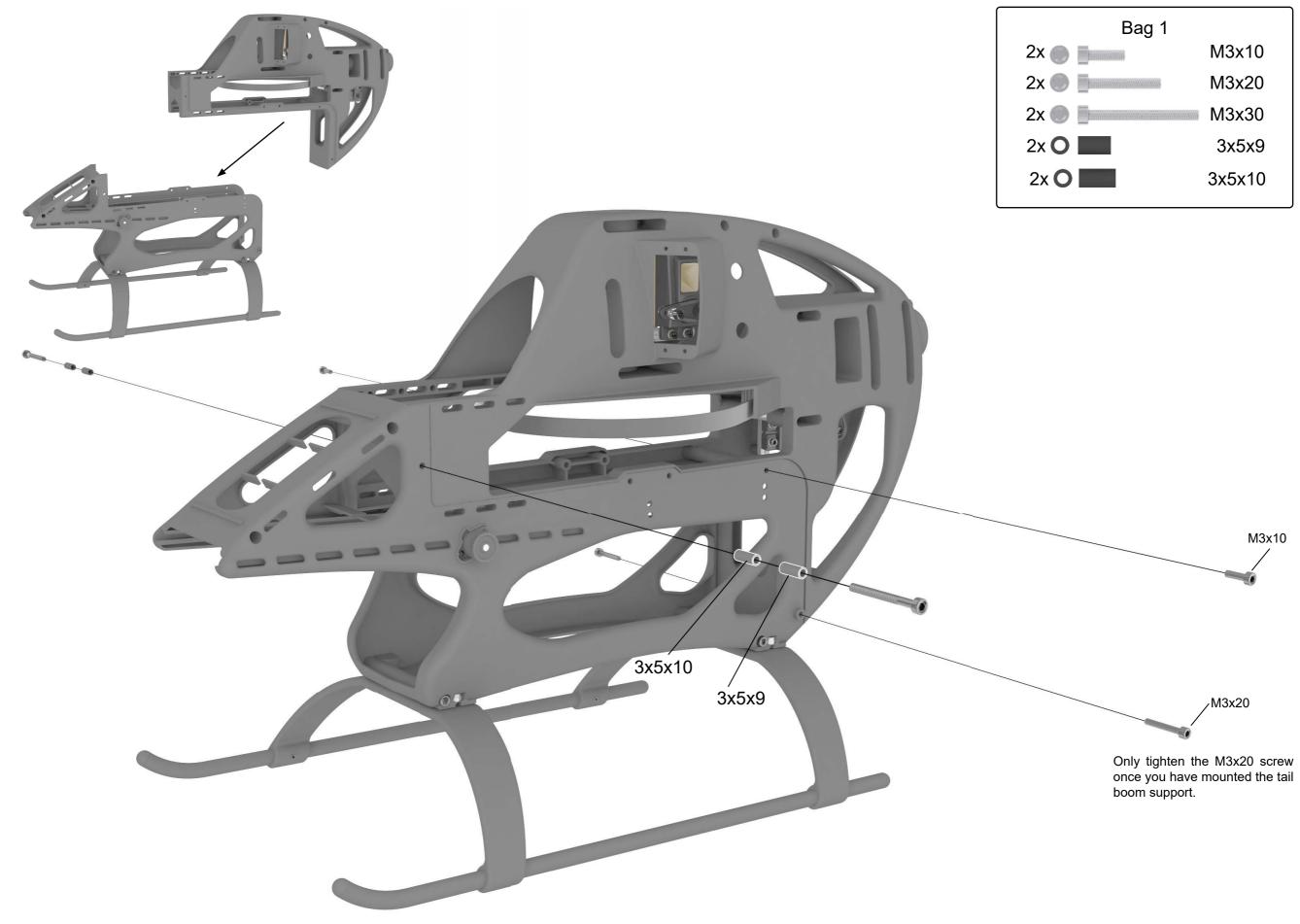
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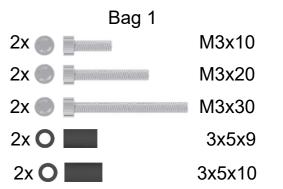
### 1 Chassis

## **1 Chassis and Landing Struts**



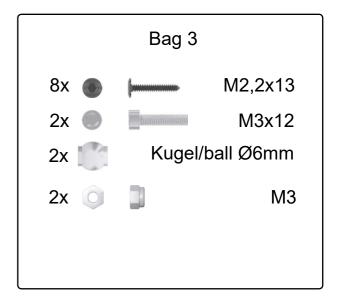


### 1 Chassis





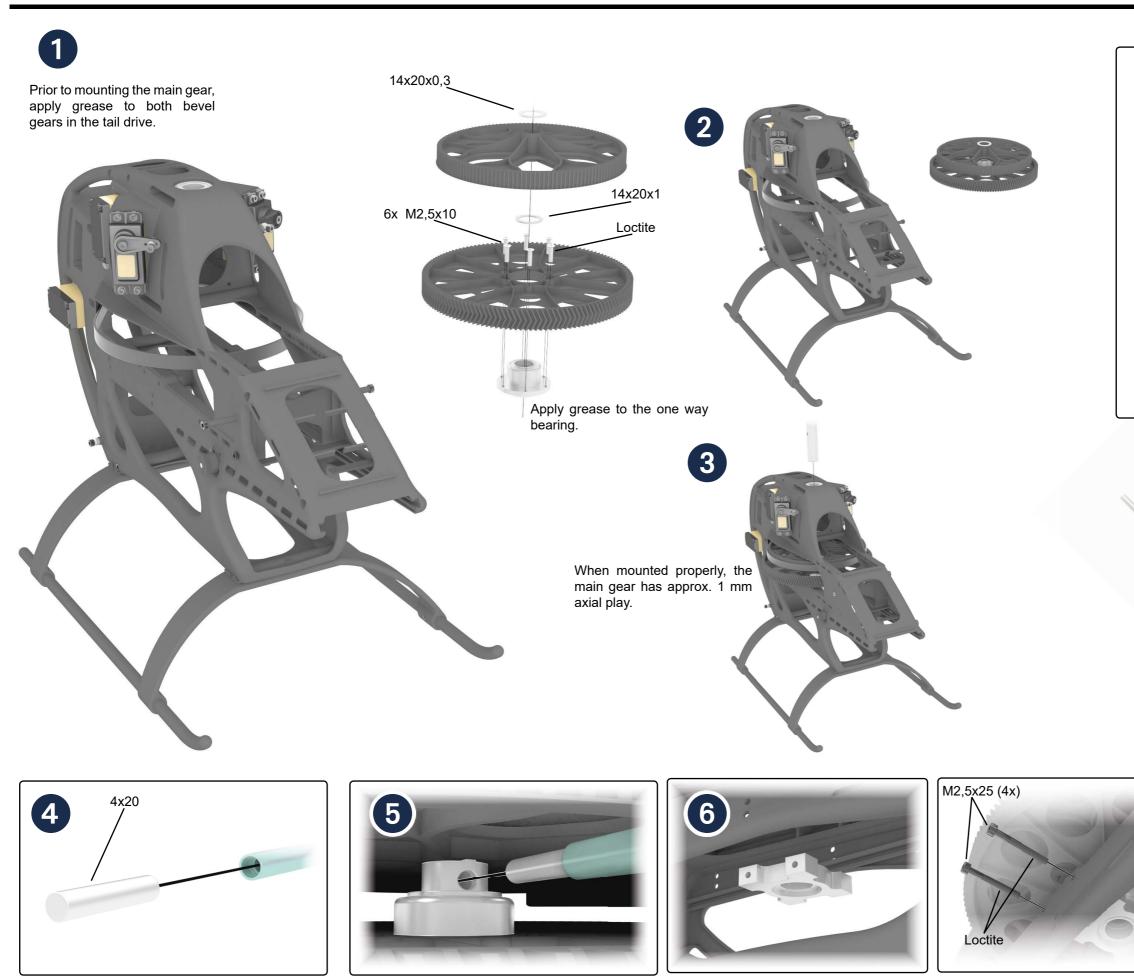
### **2 Servo Mounting**



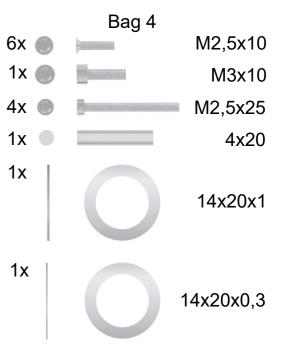


Roll links/ Aileron left Fix servo wire to the bottom side of the servo casing using electrical tape or scotch tape.

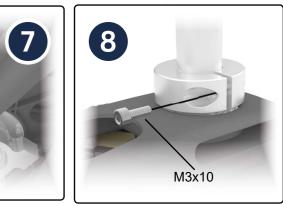


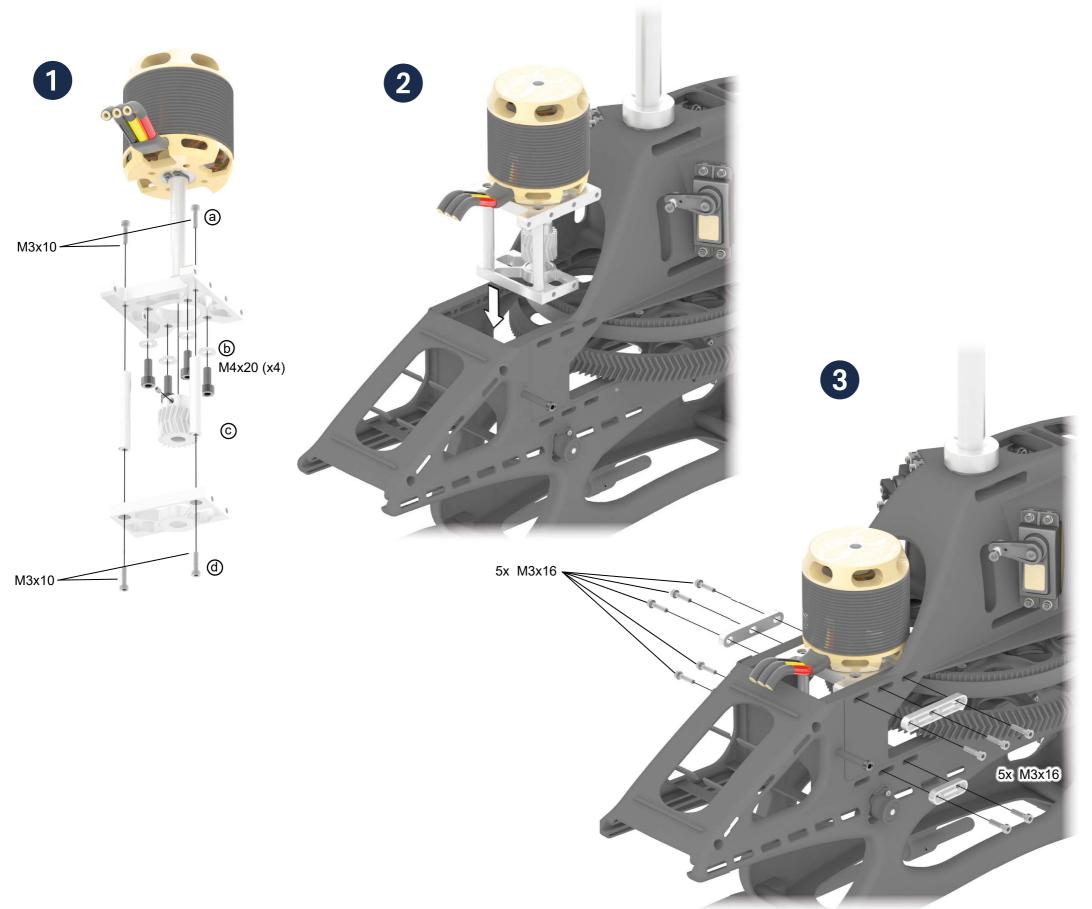


#### 3 Main Gear

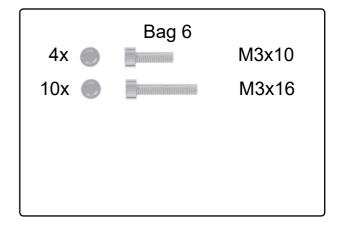


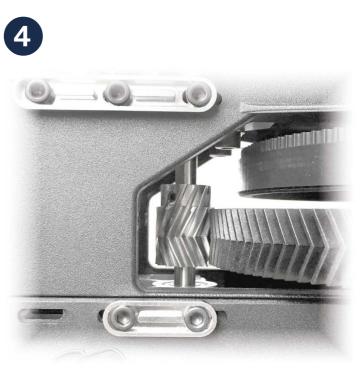
Use the silicone tube provided as a flexible extension, to easily mount the 4x20 mm bolt in the tail gear.





#### **4 Motor Installation**



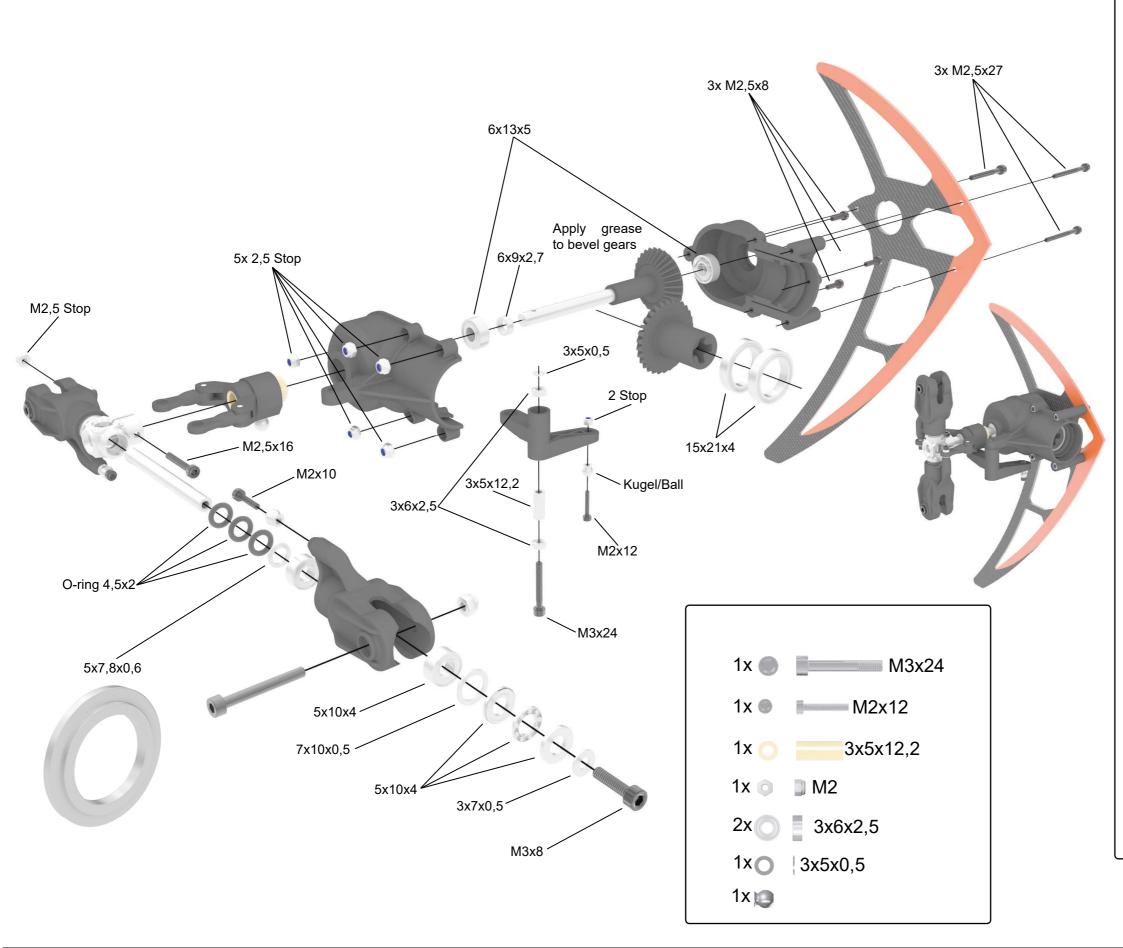


Mounting the pinion:

1) position the pinion on the motor shaft so the grub screw sits in the flat spot on the motor shaft. 2) Push motor and pinion against the main gear. The herring

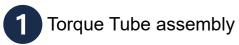
bone gear helps with the proper alignment of pinion and main gear.

3) There must be next to no backlash between main gear and pinion. Check the gear mesh after the first couple of flights.

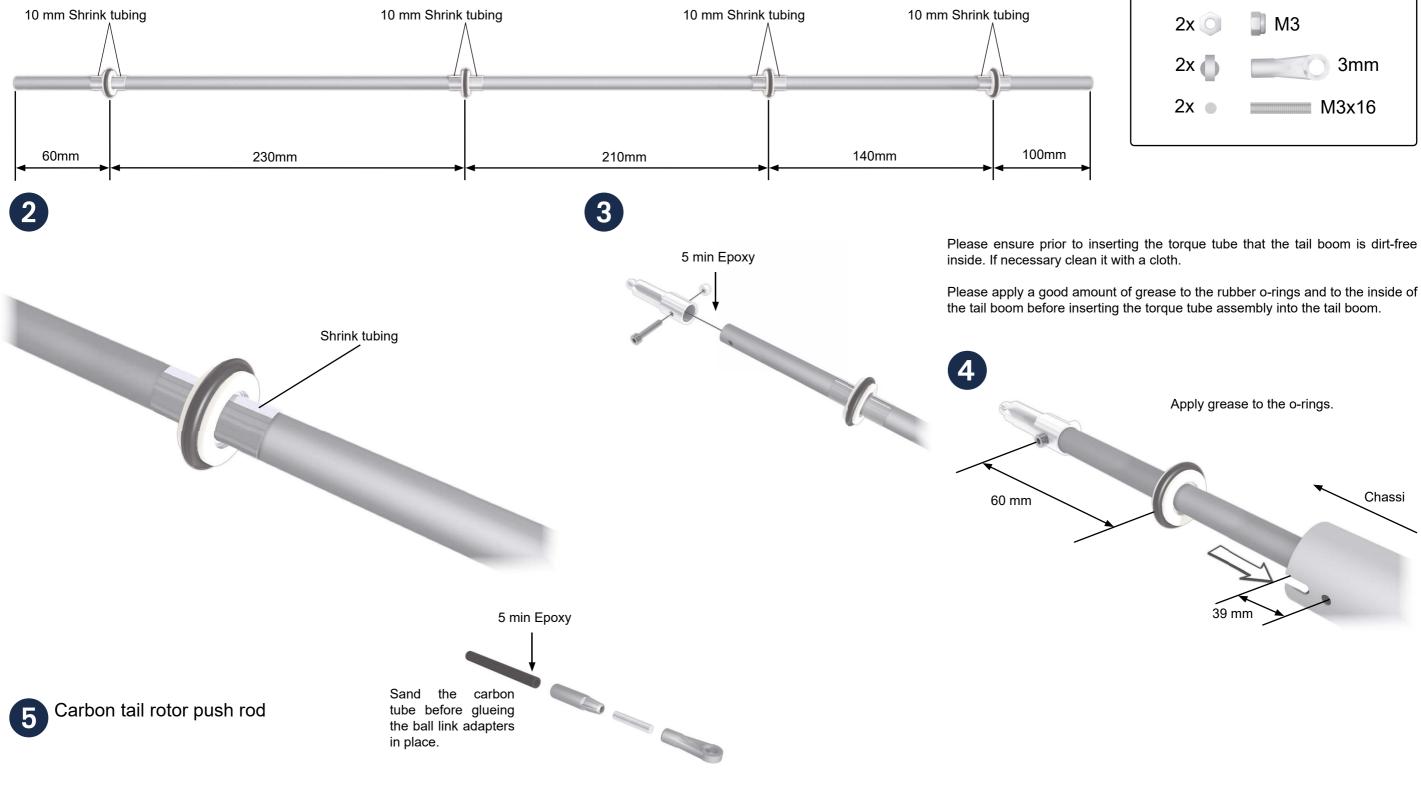


### **5 Tail Rotor**

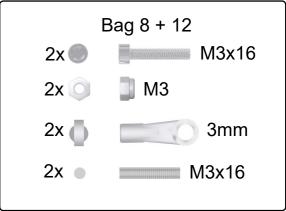
Bag 7				
1x	0	6x9x2,7		
2x	0	6x13x5		
2x		15x21x4		
3x 🔵		M2,5x8		
3x 🌑		M2,5x27		
1x 🌑		M2,5x16		
2x 🌑		M3x24		
2x 🔾		M3		
6x 💽		M2,5		
2x 🔘		3x7x0,5		
2x		5x10x4		
4x 🔘		5x10x4		
6x <b>C</b>		4,5x2		
2x		7x10x0,5		
2x 🕻		5x7,8x0,6		
2x 🔘				
1x 🌑	Automatication	M2x10		



Push the four ball bearing mounted plastic sleeves to the torque tube, use the 10 mm adhesive shrink tubing to hold the bearings in position.

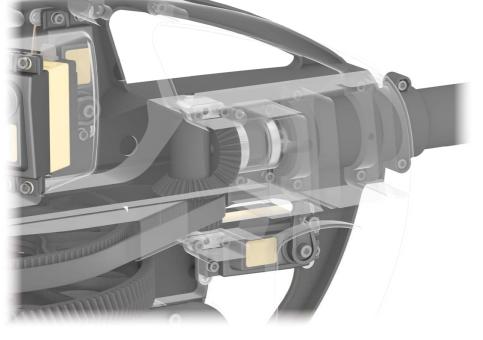


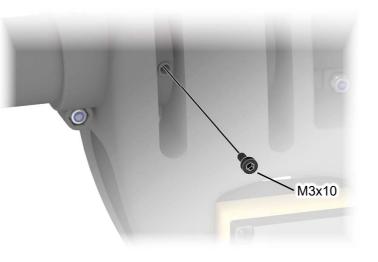
## **6 Torque Tube**



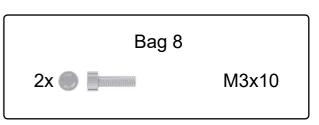
Push the tail boom all the way into the chassis. Tighten all six screws holding the tail boom firmly, making sure the drilled holes for the rotation prevention in the tail boom are aligned properly. Finally fix the tail boom using the M3x10 hex screws, from both sides.

M2,5x8

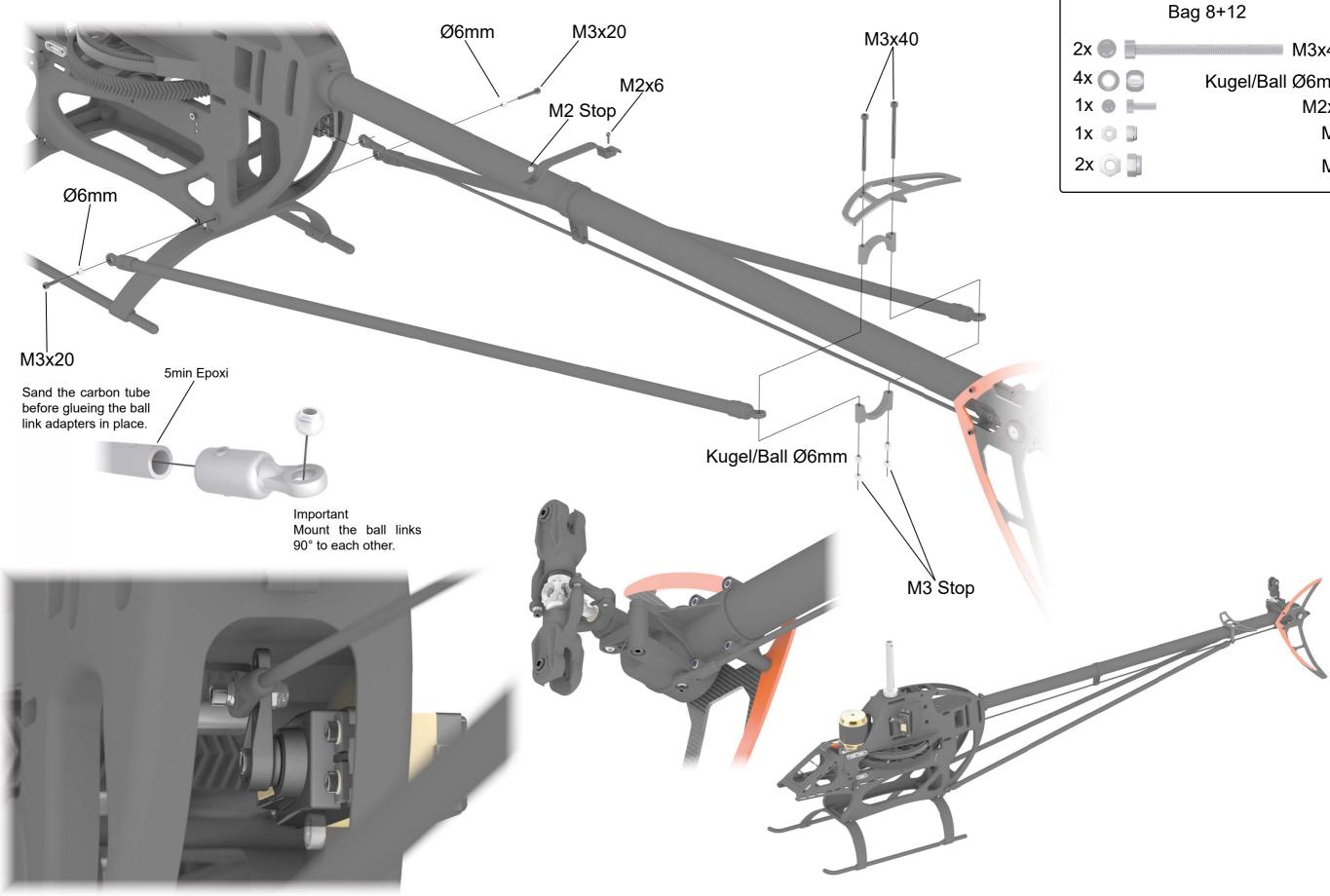




#### 7 Tail Boom Mounting

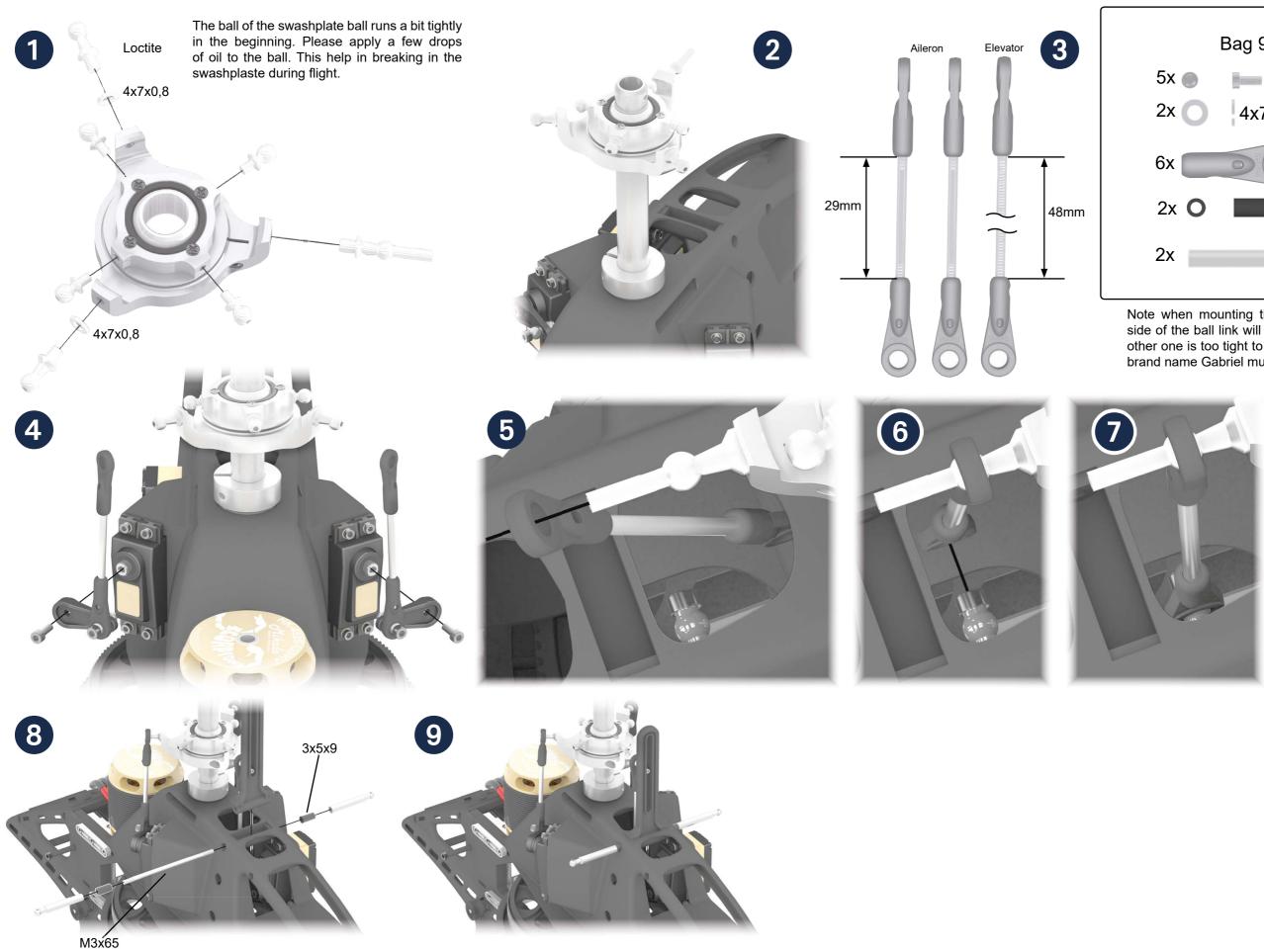




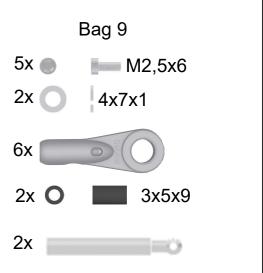


#### **8 Tail Boom Brace**

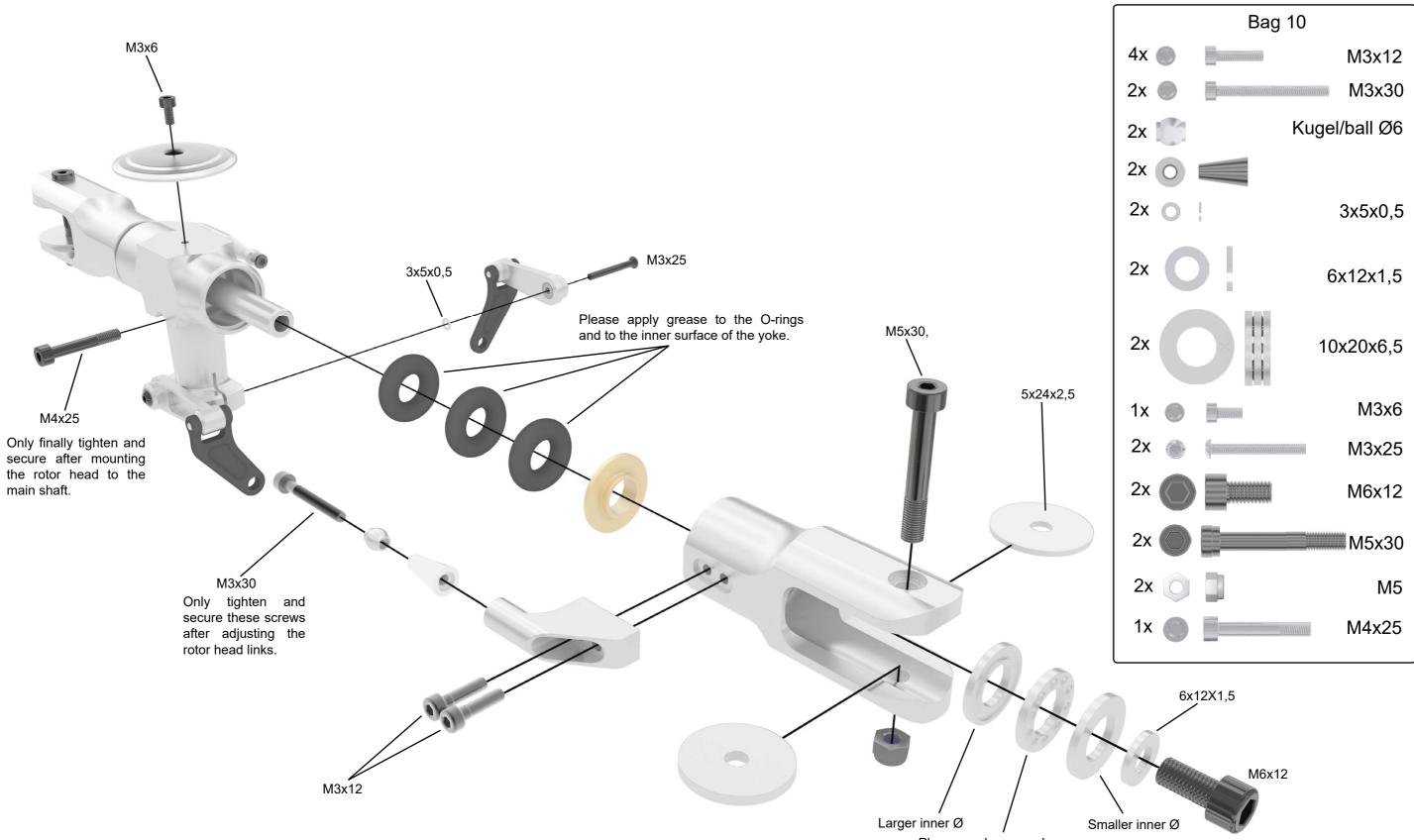
			Bag 8+12
2x			M3x40
4x	0		Kugel/Ball Ø6mm
1x		manana	M2x6
1x	0		M2
2x	Ô		M3



#### 9 Swashplate



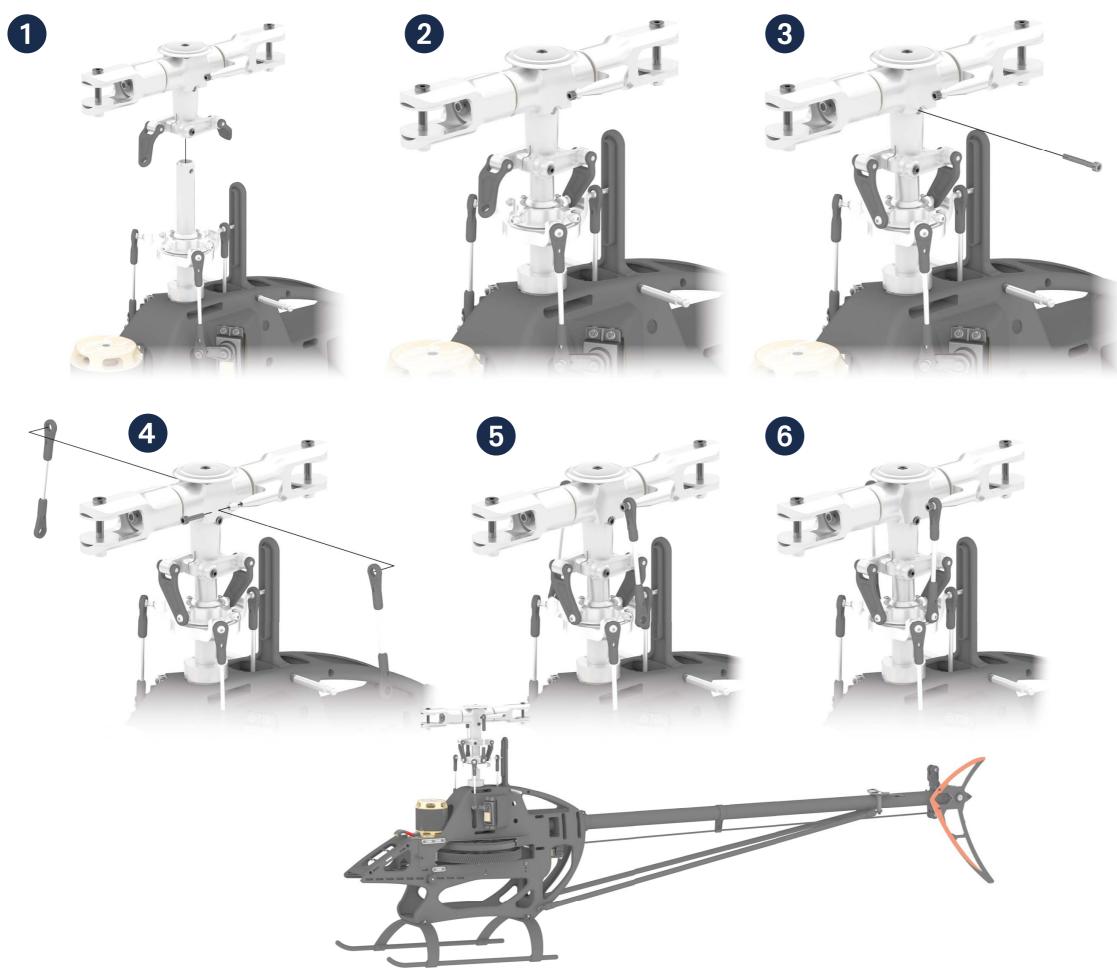
Note when mounting the ball links: One side of the ball link will clip on easily. The other one is too tight to clip on easily. The brand name Gabriel must point outwards.

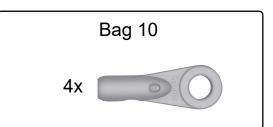


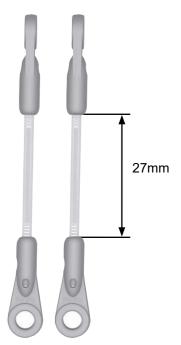
Please apply grease here

#### **10 Rotor Head**

## **11 Rotor Head Linkage**

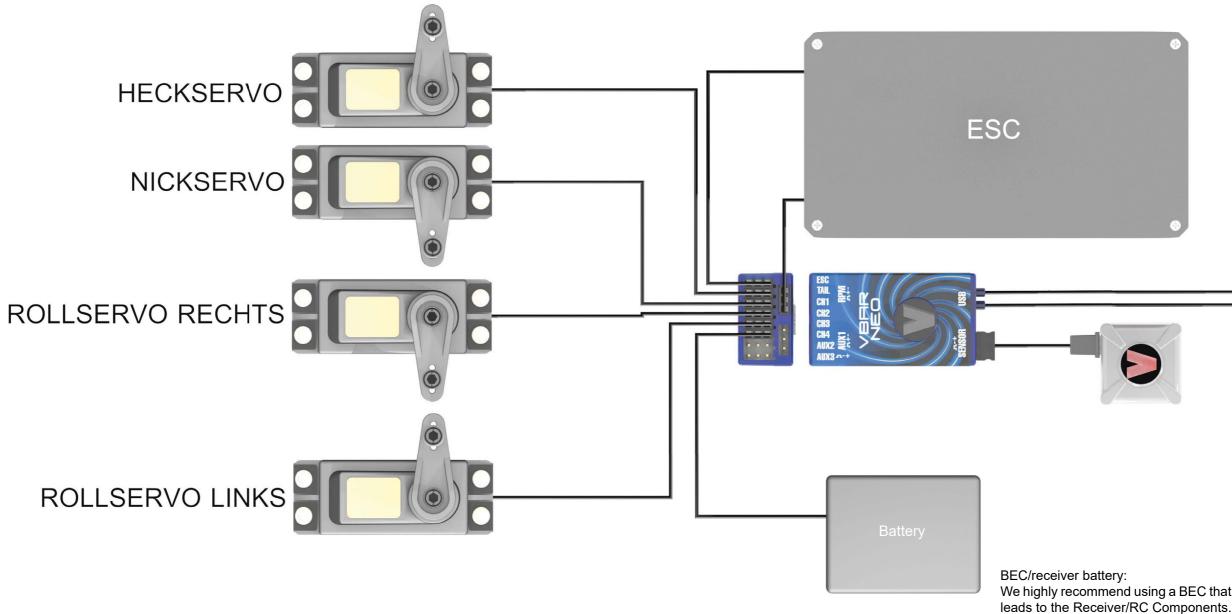






Note when mounting the ball links: One side of the ball link will clip on easily. The other one is too tight to clip on easily. The brand name Gabriel must point outwards.

Tighten and secure the M4x25 screw in the main rotor head, the M3x30 in the blade holders and the M3x25 in the swash plate driver after mounting and adjusting the rotor head and the linkages.

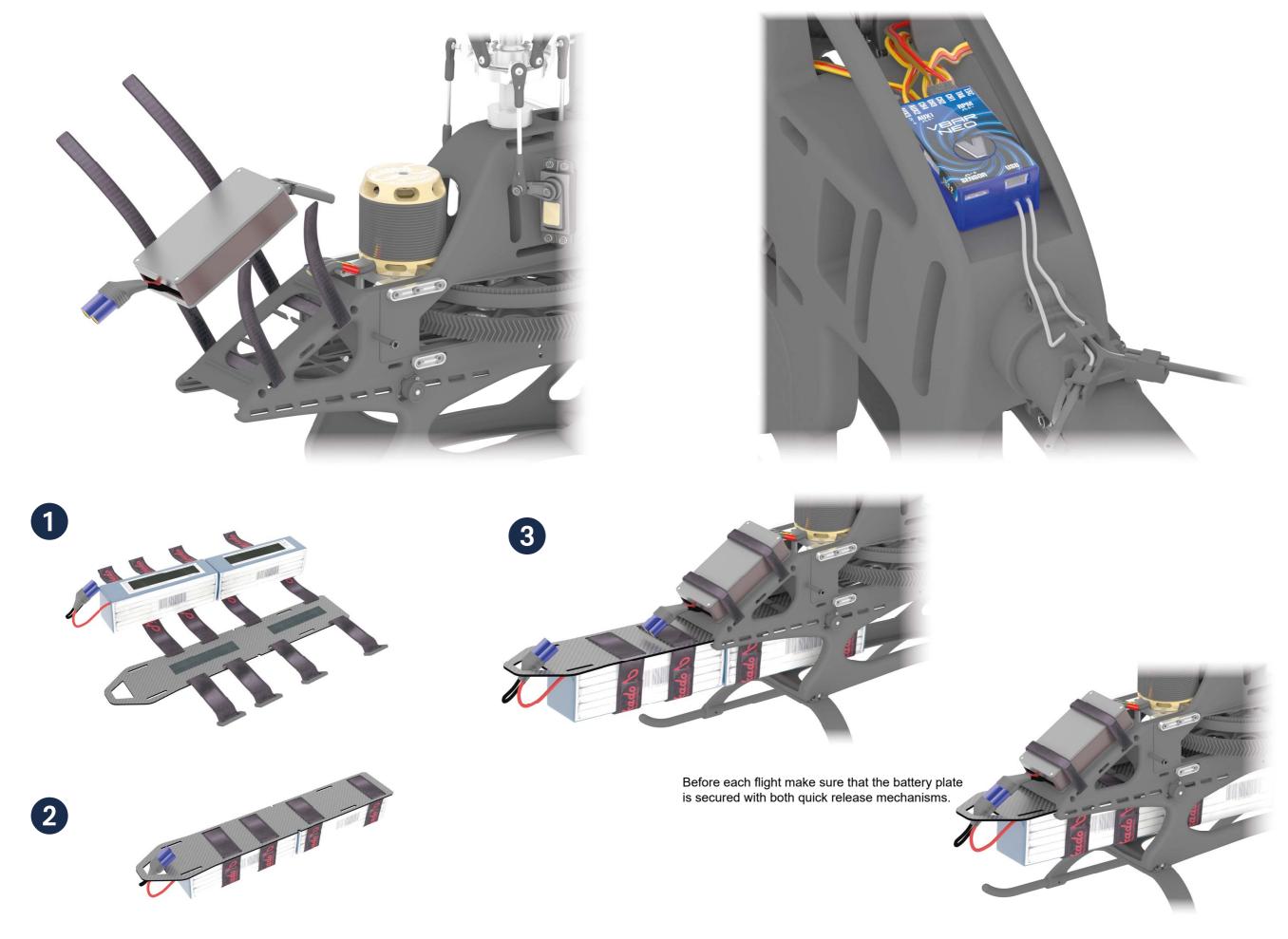


Wiring: Please note: All wires must be placed in such a way that they cannot be damaged by any sharp edges during operation of the helicopter. Please apply the fabric tube and the edge guard provided in this kit. Both types of protection are also available individually from Mikado.

## **12 Wiring RC Components**

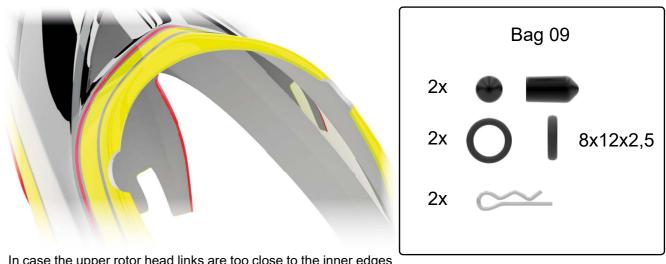
We highly recommend using a BEC that can provide two power

## **13 Mounting ESC/ Battery**



### 14 Canopy and Overview





In case the upper rotor head links are too close to the inner edges of the canopy, take out a few mm as shown in the picture.



The canopy of the LOGO 700 is mounted via four attachment points. The two attachment points in the front ensure that the canopy sits well on the chassis during flight. have a guiding function. In the back, the canopy is attached by two rubber grommets. You will find another, high-quality, set of rubber grommets included in the kit. You may use these, if desired.

Important note: A special feature of the Logo 700 canopy ist that it the back part is fully closed. This back area is connected via two pins and magnets. Take your time when mounting and dismounting the canopy. Use proper care when sliding the canopy over the rotor shaft.

Before each flight, check that the canopy sits securely. If the canopy sits too lose, this can deteriorate the flight performance of the helicopter. If the canopy becomes lose during flight the helicopter will crash.

This canopy is 100% hand-made. Small irregularities in the surface, the airbrush design or color are normal. They do not constitute a reason for complaint



Please mount here the edge protector strip (included in the kit) and fix it with speed glue.



### **15 Overview Spare Parts Mainframe**

