Manual Logo 800





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Thank you very much for your purchase of the Mikado LOGO 800. Prior to assembly, 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, please 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.

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. If you do not 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. Since one irregularity can cause other defects or problems, an increased risk of failure will ensue, if the problem is not fixed first.

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. Even just one single loose screw can cause the helicopter to become uncontrollable resulting in a crash or personnel injury.

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 800:

- maximum rotor head rpm: 1800 U/min.
- maximum pitch travel: +/- 12°
- Length of rotor blades: 750 to 810mm
- Lipo battery: 12-14S Lipo Batteries
- admissible temperature 5° 35° Celsius

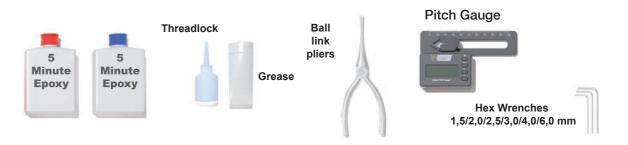
If these values are exceeded, the electronic components may experience overload. This may result in damage or a crash of the helicopter.

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.

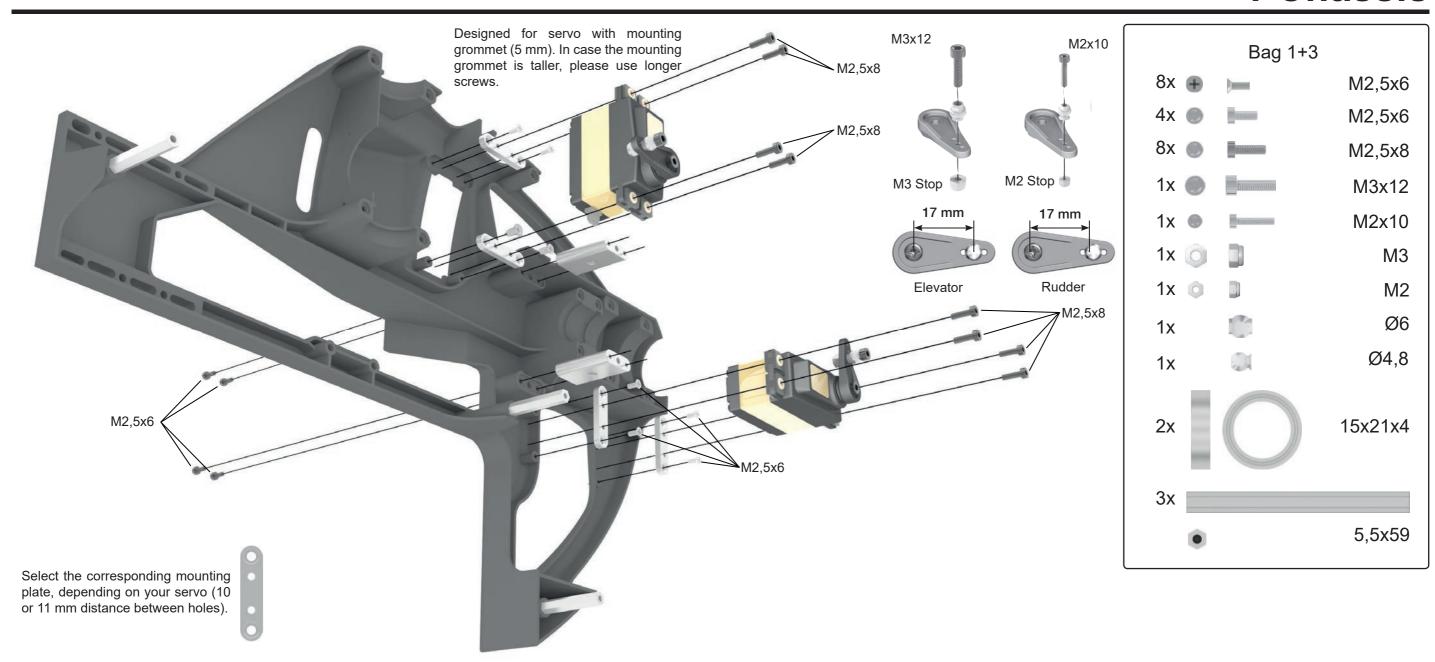
Tips for flying your Logo 800 in a safe way

In our rigorous testing we flew the Logo 800 in very aggressive maneuvers and did not find it to be susceptible to failure, or boom strikes. However, due to the size of this model it is our recommendation to you that it should not be flown in the same way which you fly a small helicopter or 700 size competition machine, particularly in aggressive 3D maneuvers. Please note the following tips on how to fly your 800 in order to ensure the long and healthy life of your model.

- 1. . If you will be flying aggressive 3D maneuvers, you MUST first install the 2 x 90 shore dampers in the "Hard Damper Configuration" Please note more about this on page #15.
- 2. Do not do maneuvers which give large amounts of backwards elevator, and negative collective pitch at the same time. Especially do not do this in a quick jab, or aggressive way. If you will give both of these commands at the same time you should do them more smoothly. Otherwise it may result in catastrophic boom strike.
- 3. Utilize good pitch management when flying this helicopter. When flying you should only give large amount of collective pitch, with low amount of cyclic, or high cyclic amount with low amount of collective pitch. But not both at the same time.
- 4. Do not attempt to do aggressive flying at low RPMs. If you want to fly aggressive maneuvers, please use at least 1800rpm of head speed. If you fly with lower RPM, then you must also fly the model in a smoother way.
- 5. High amounts of collective pitch with rapid right rudder inputs should be avoided. The increased torque from the collective pitch and the right tail rotor input (against torque) will put huge amounts of stress on the tail rotor drive train.
- 6. If you fly mainly with Low RPM (below 1400rpm), you can use longer tail rotor blades (120-130mm) to get a better tail authority. But do not attempt to fly higher 6. rpm with larger tail blades.



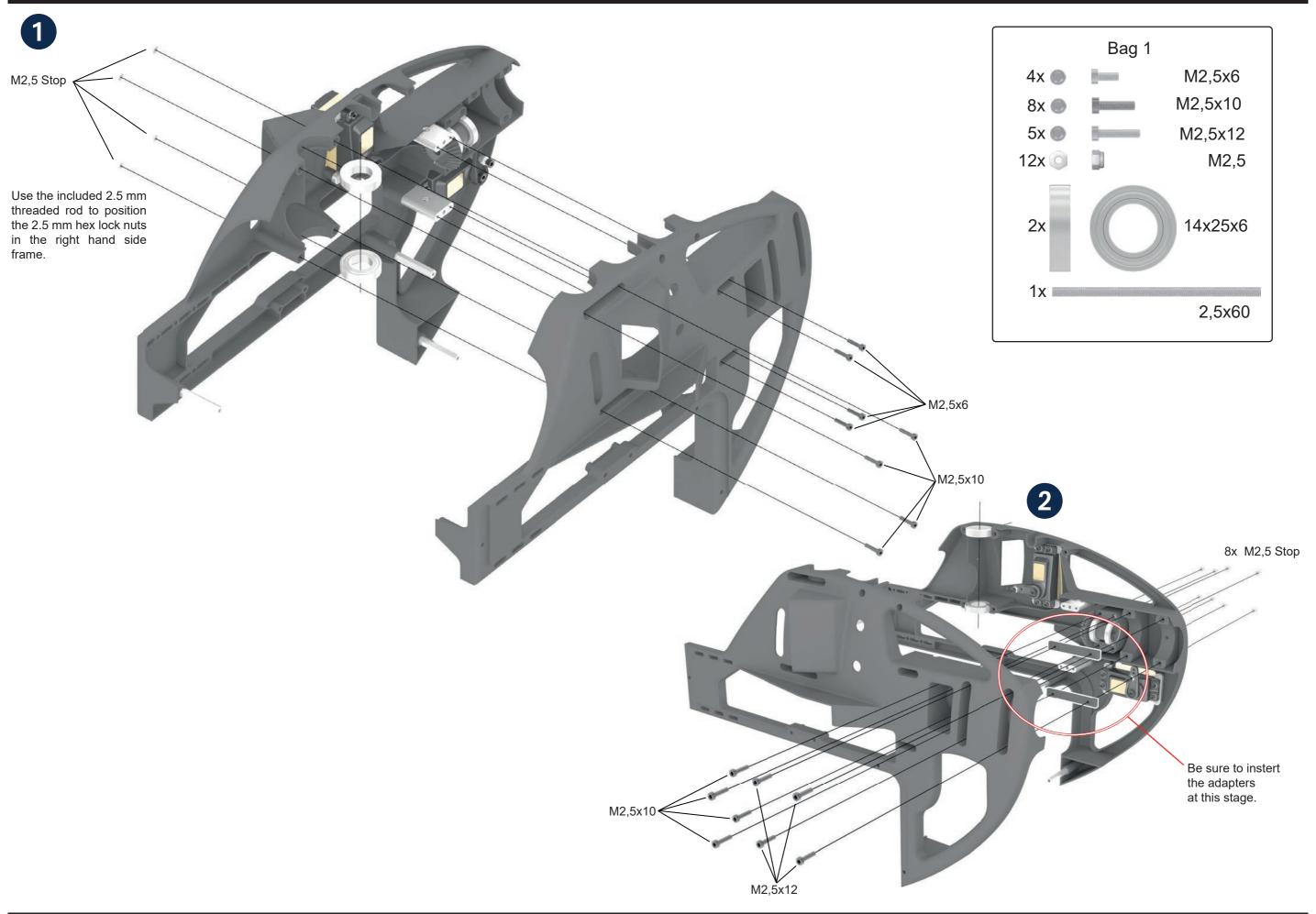
1 Chassis



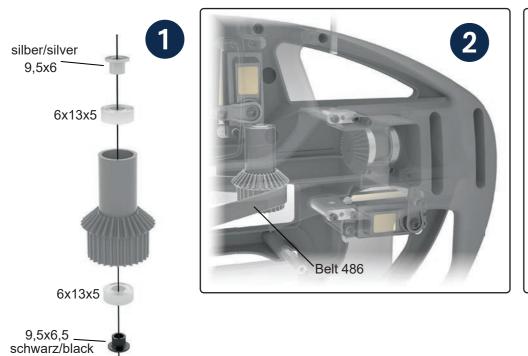




1 Chassis

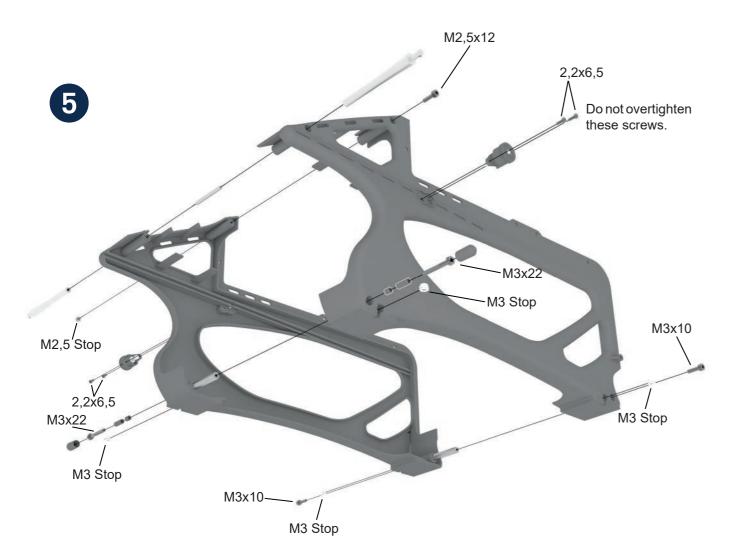


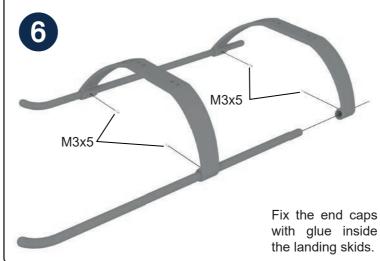
1 Chassis and Landing Struts



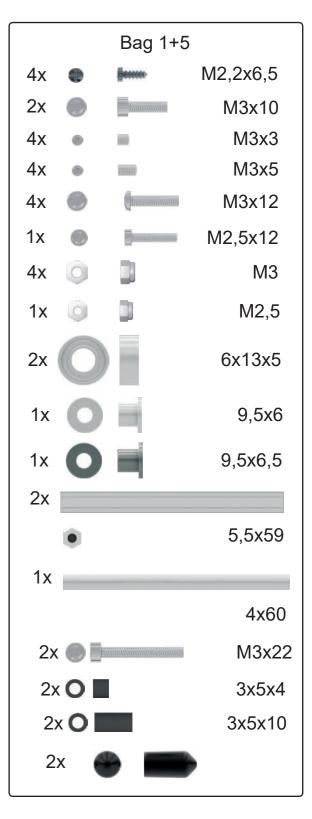




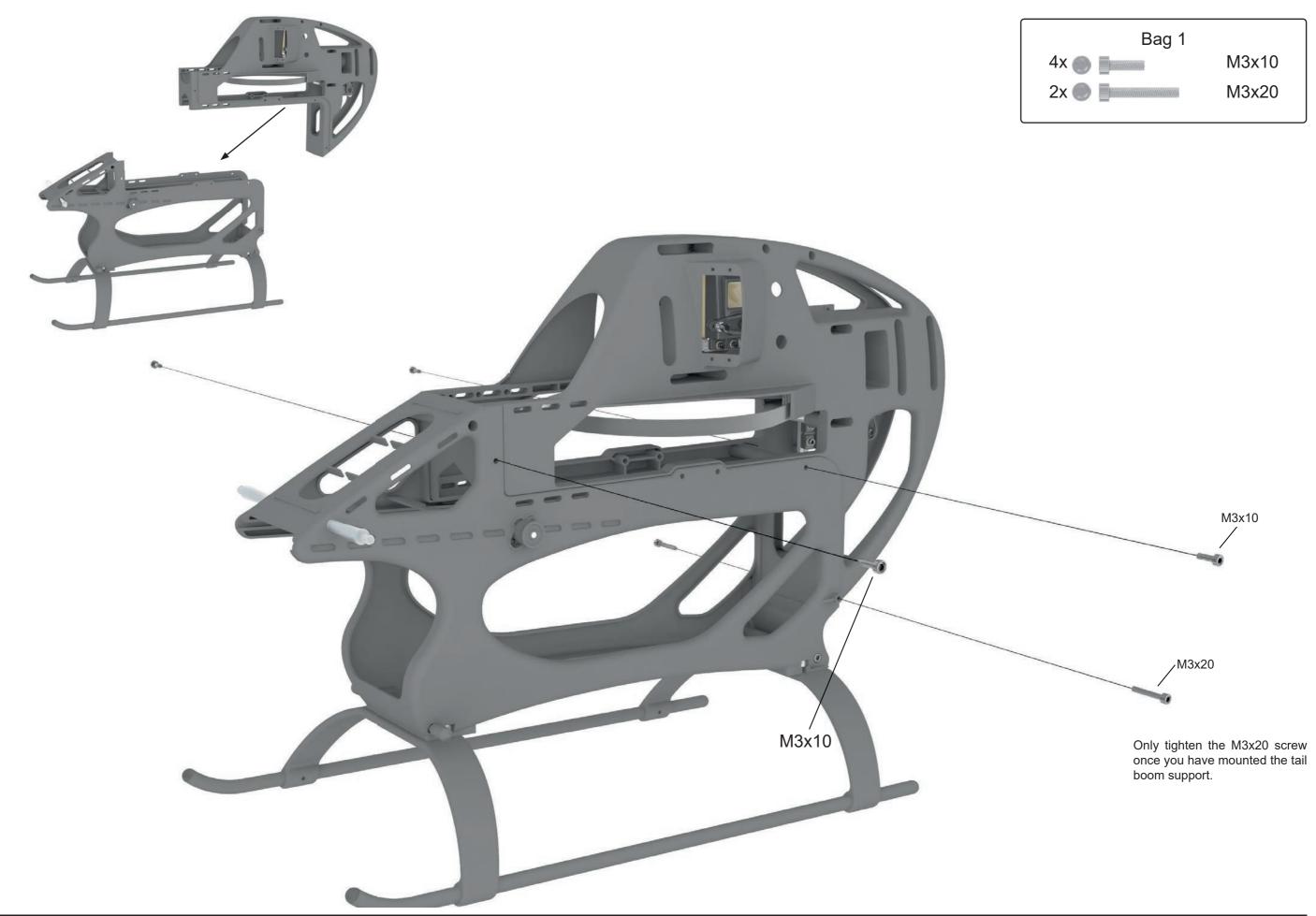




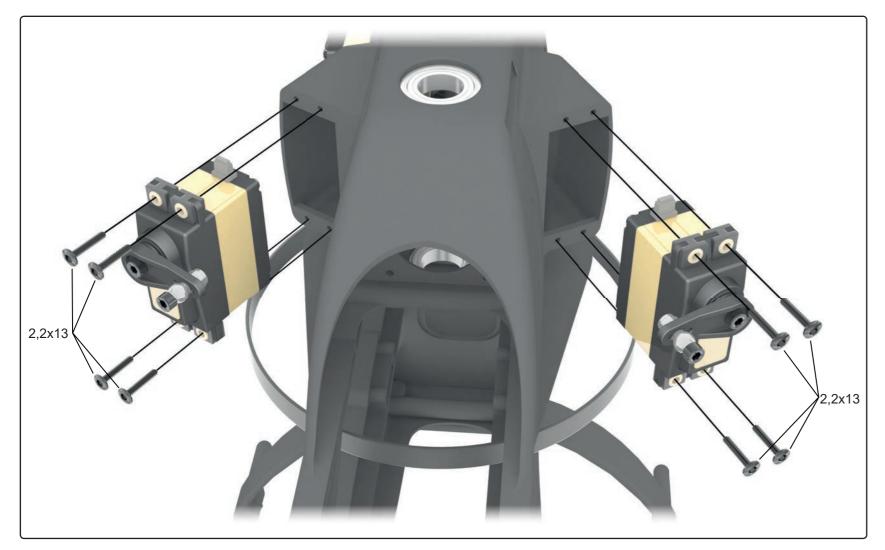


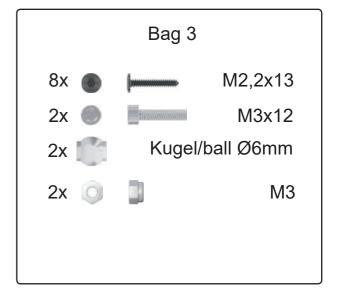


1 Chassis



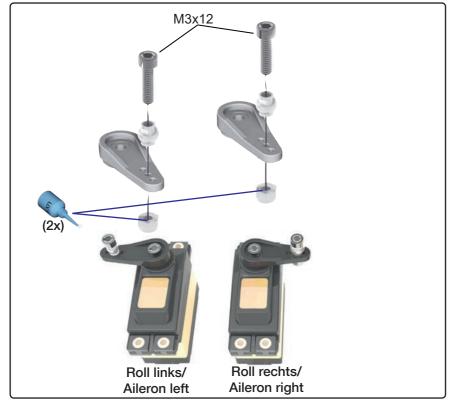
2 Servo Mounting

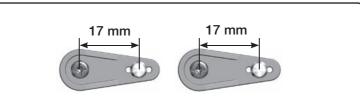




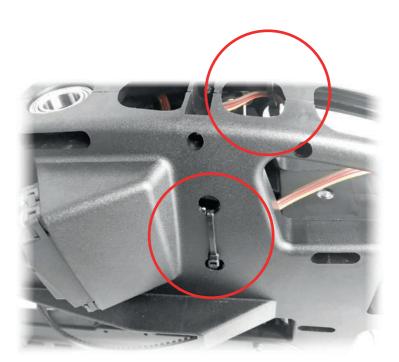


Roll links/ Aileron left
Fix servo wire to the bottom side of the servo casing using electrical tape or scotch tape.



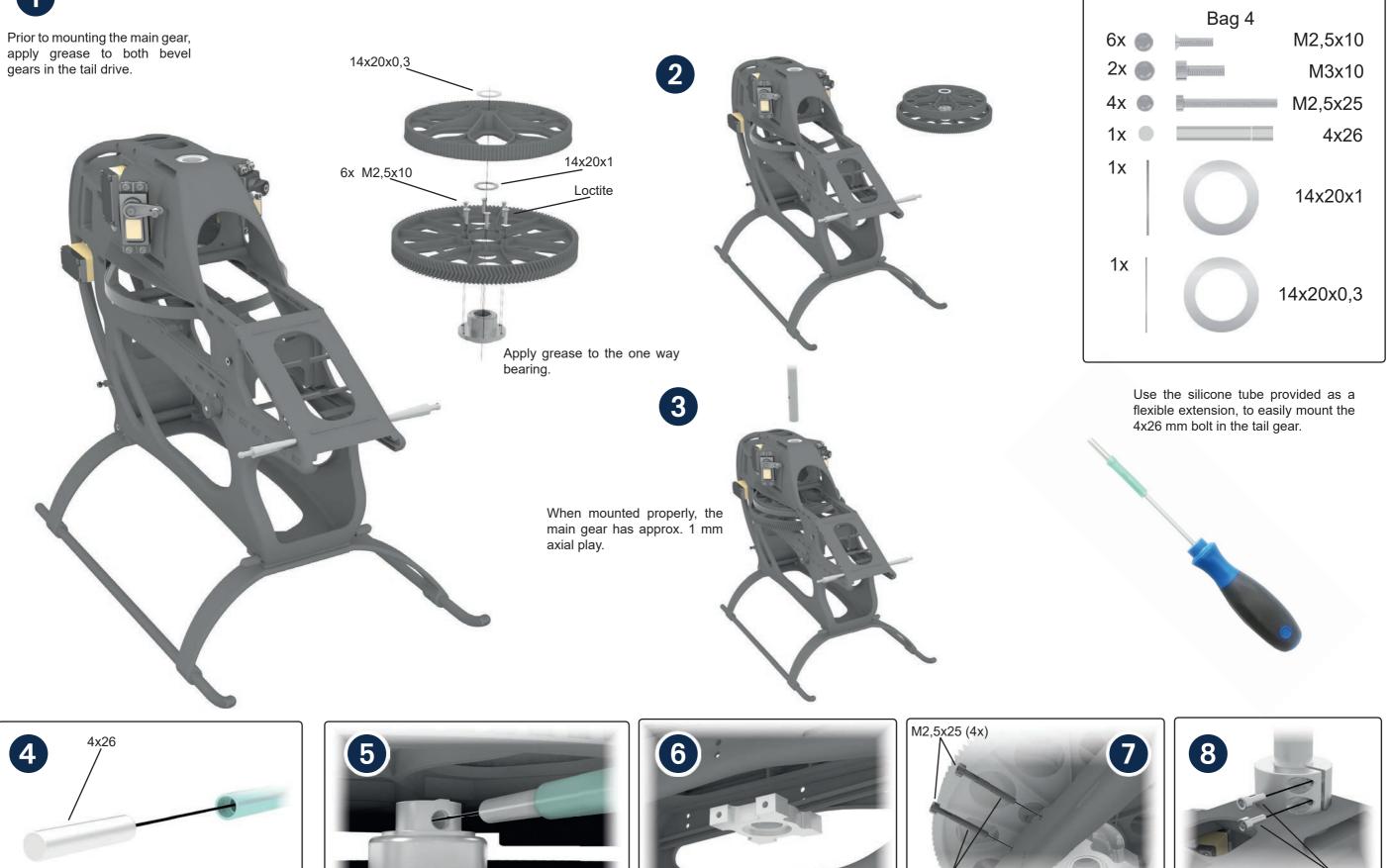






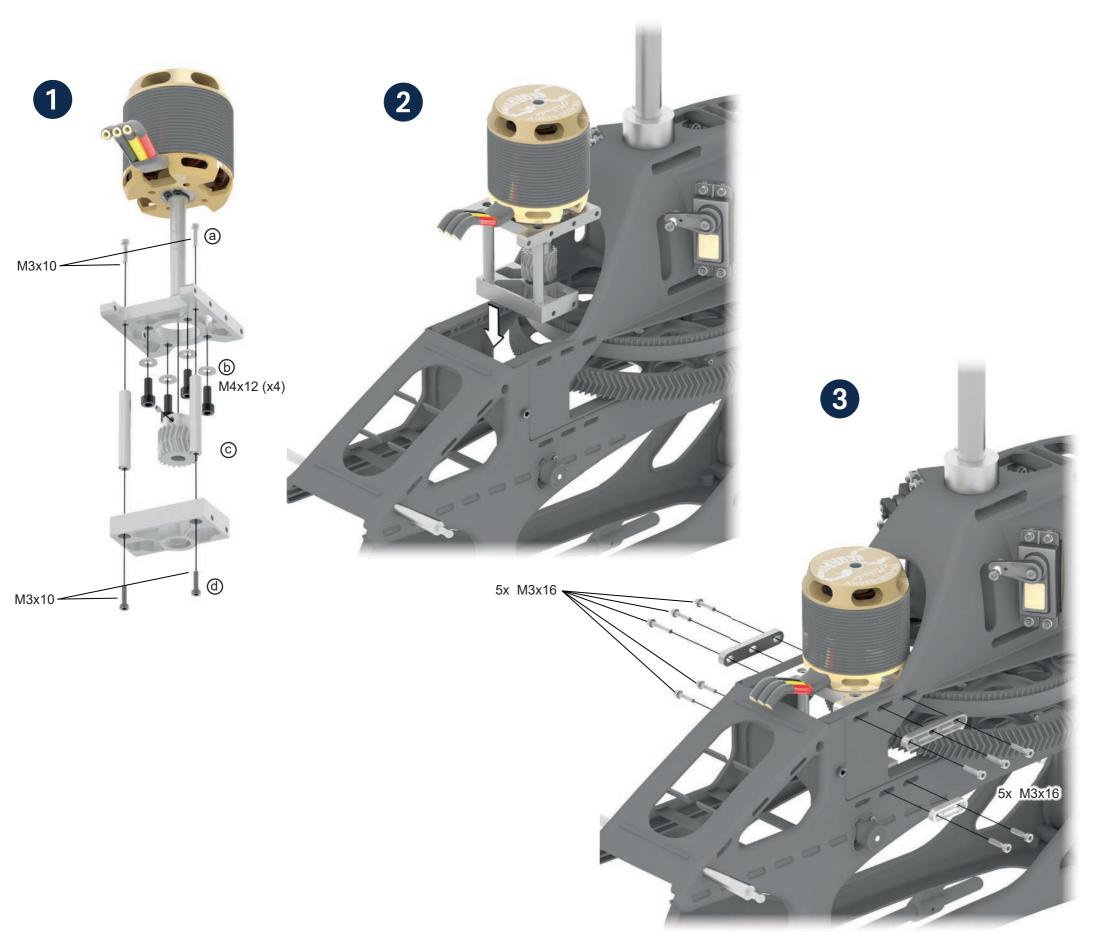
3 Main Gear

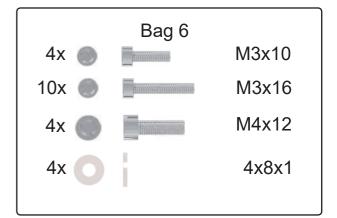




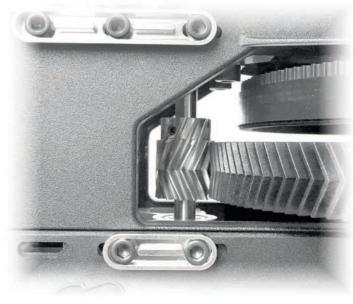
M3x10

4 Motor Installation







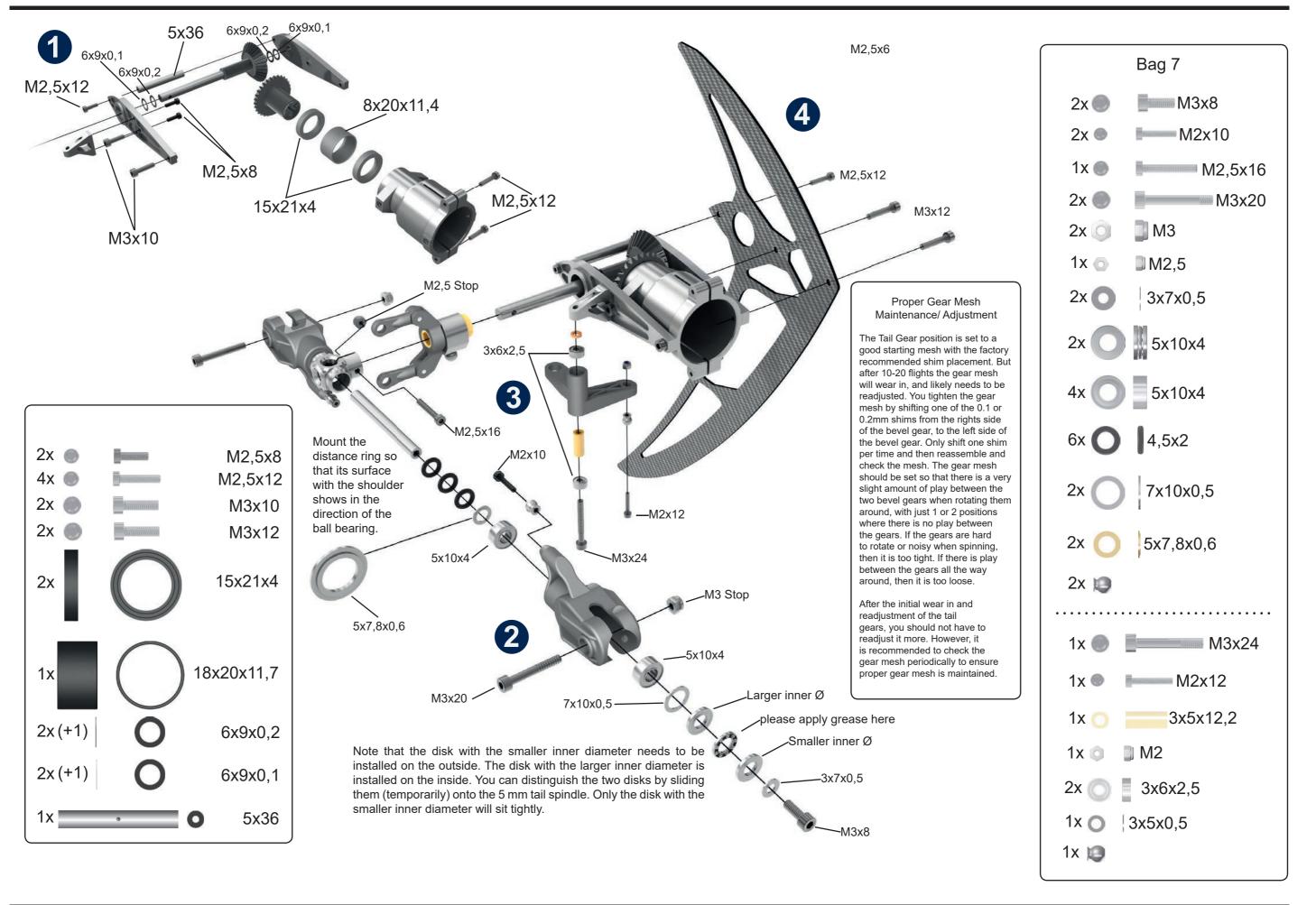


Mounting the pinion:

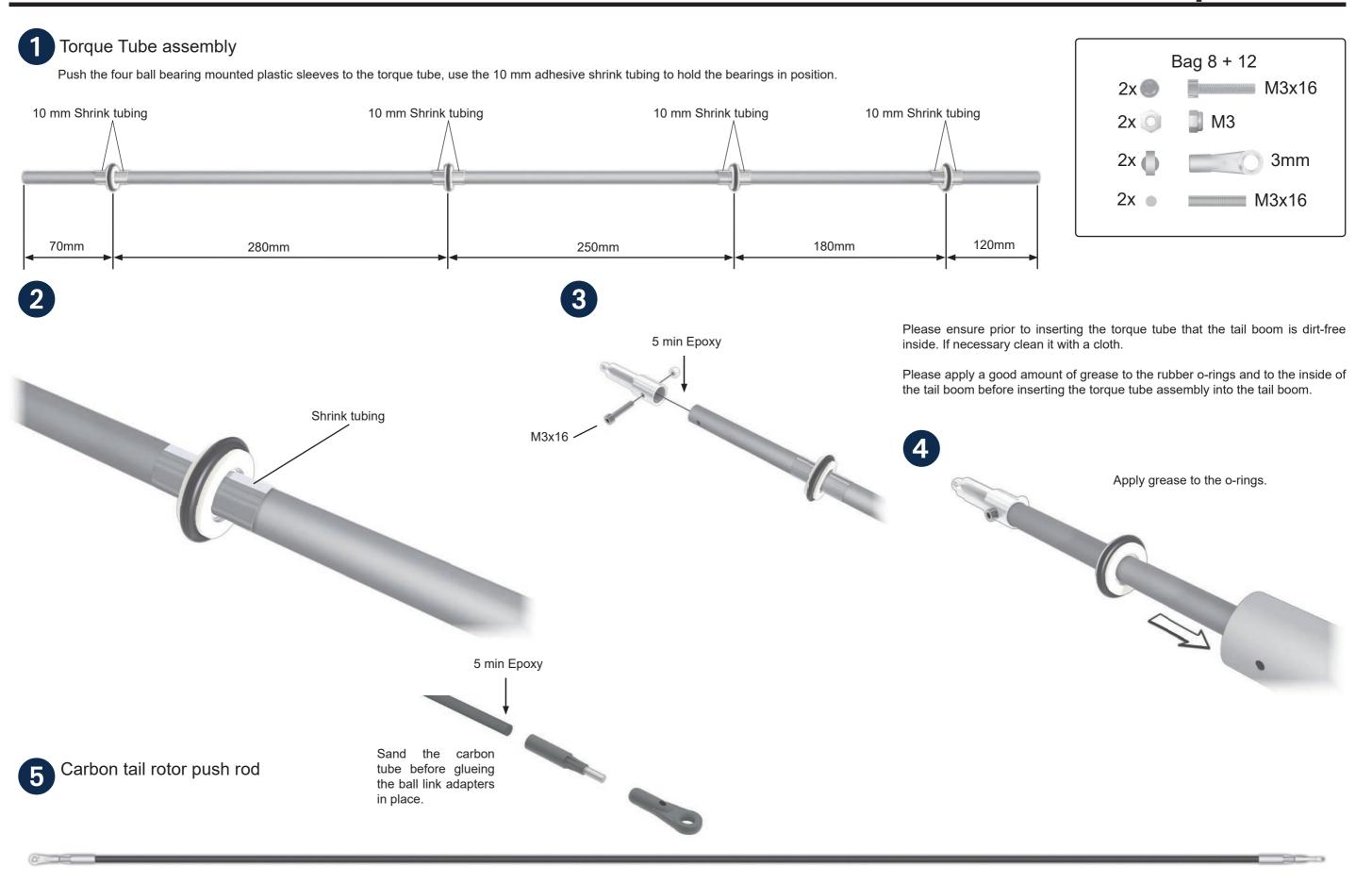
- 1) position the pinion on the motor shaft so the grub screw
- sits loosely in the flat spot on the motor shaft.

 2) Push motor and pinion against the main gear. The herring bone gear helps with the proper alignment of pinion and
- 3) There must be next to no backlash between main gear and pinion. Check the gear mesh after the first couple of

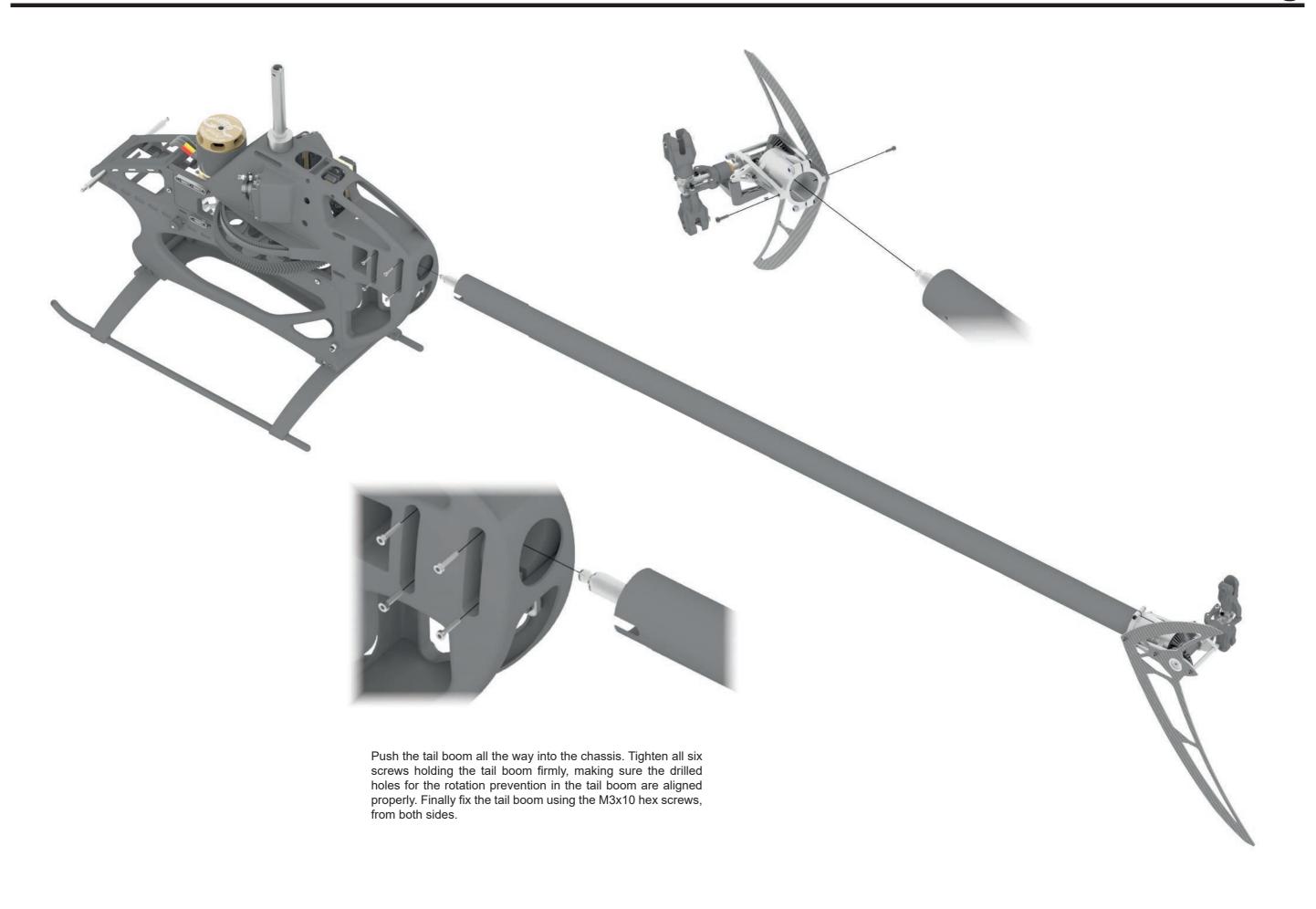
5 Tail Rotor



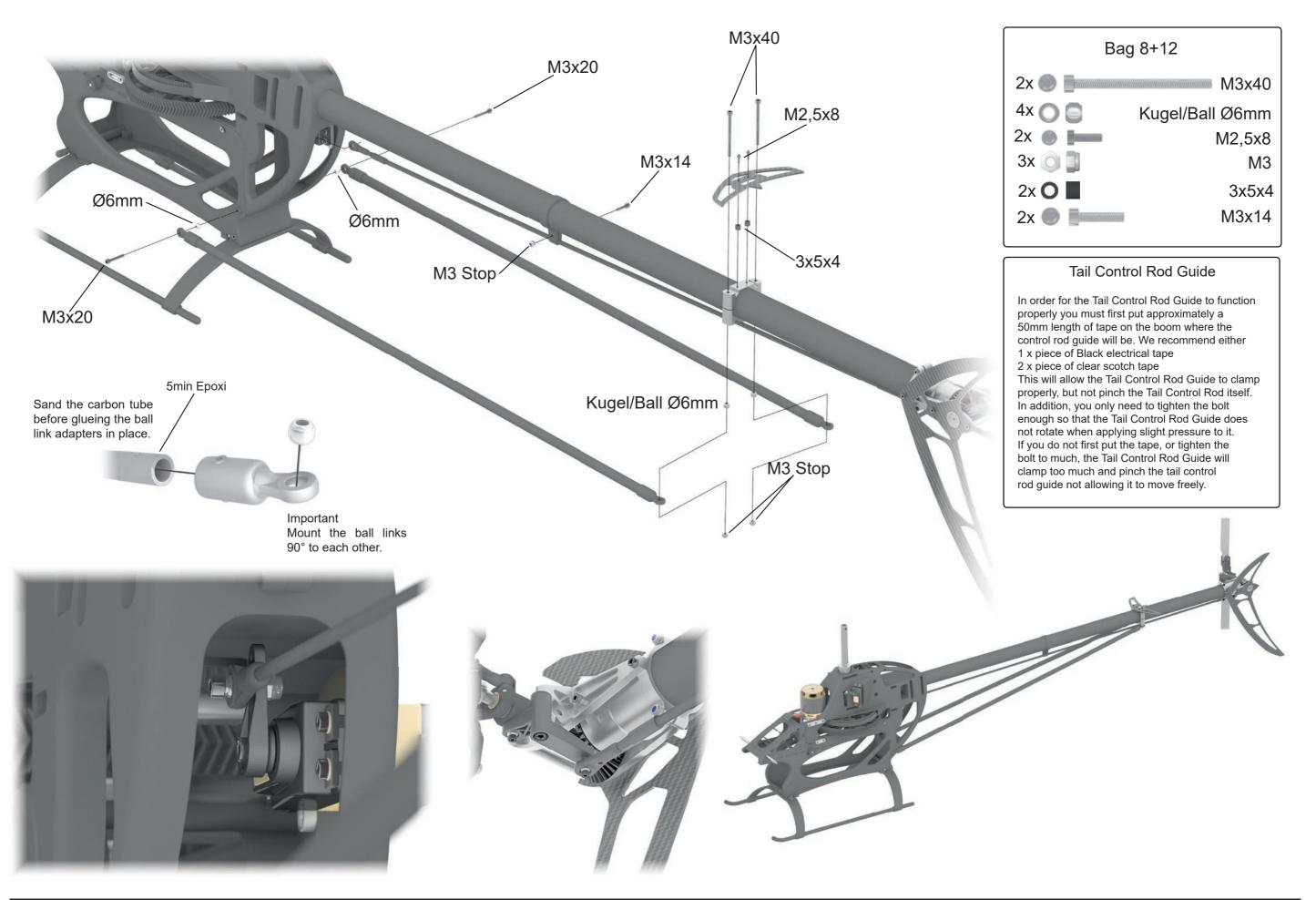
6 Torque Tube



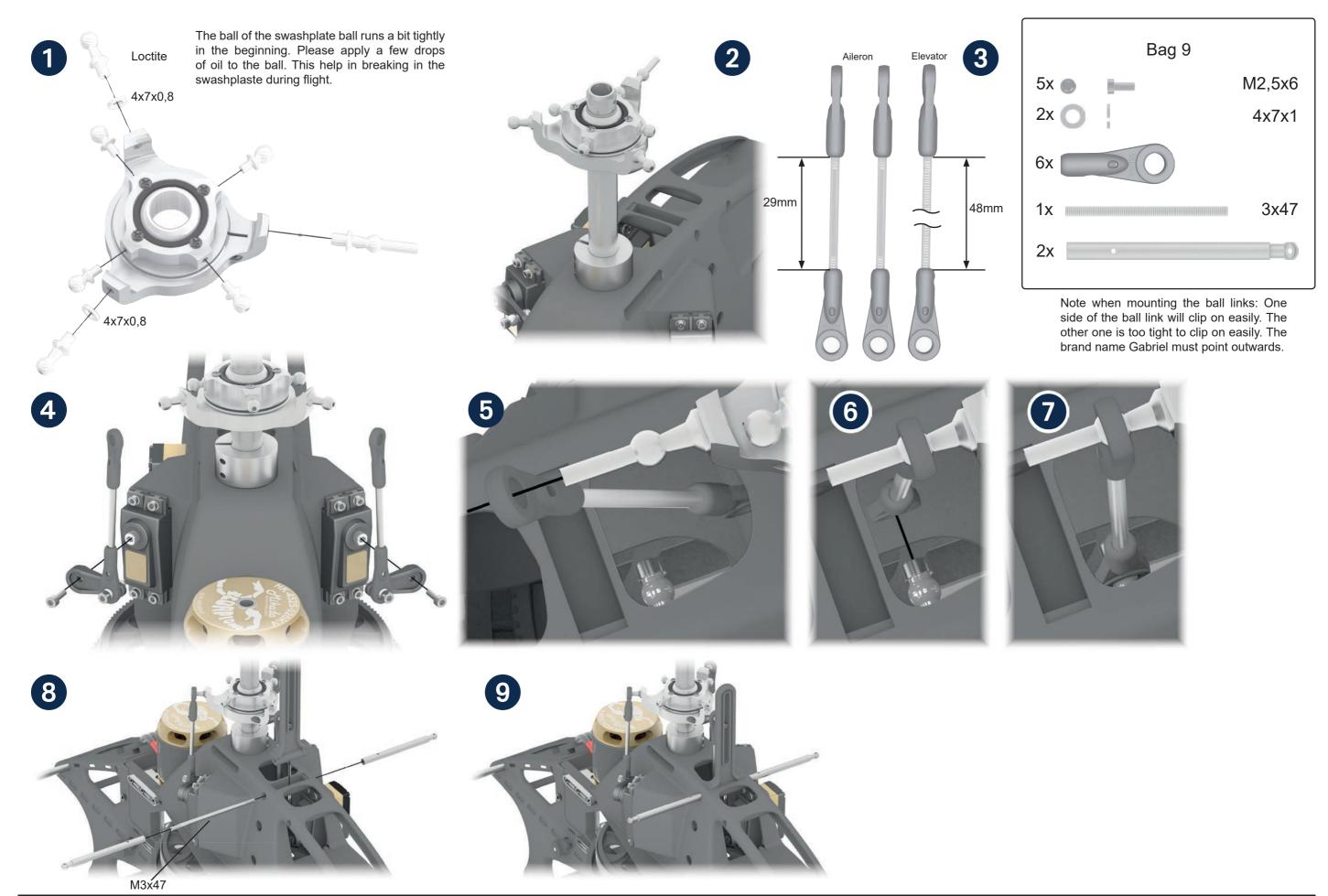
7 Tail Boom Mounting

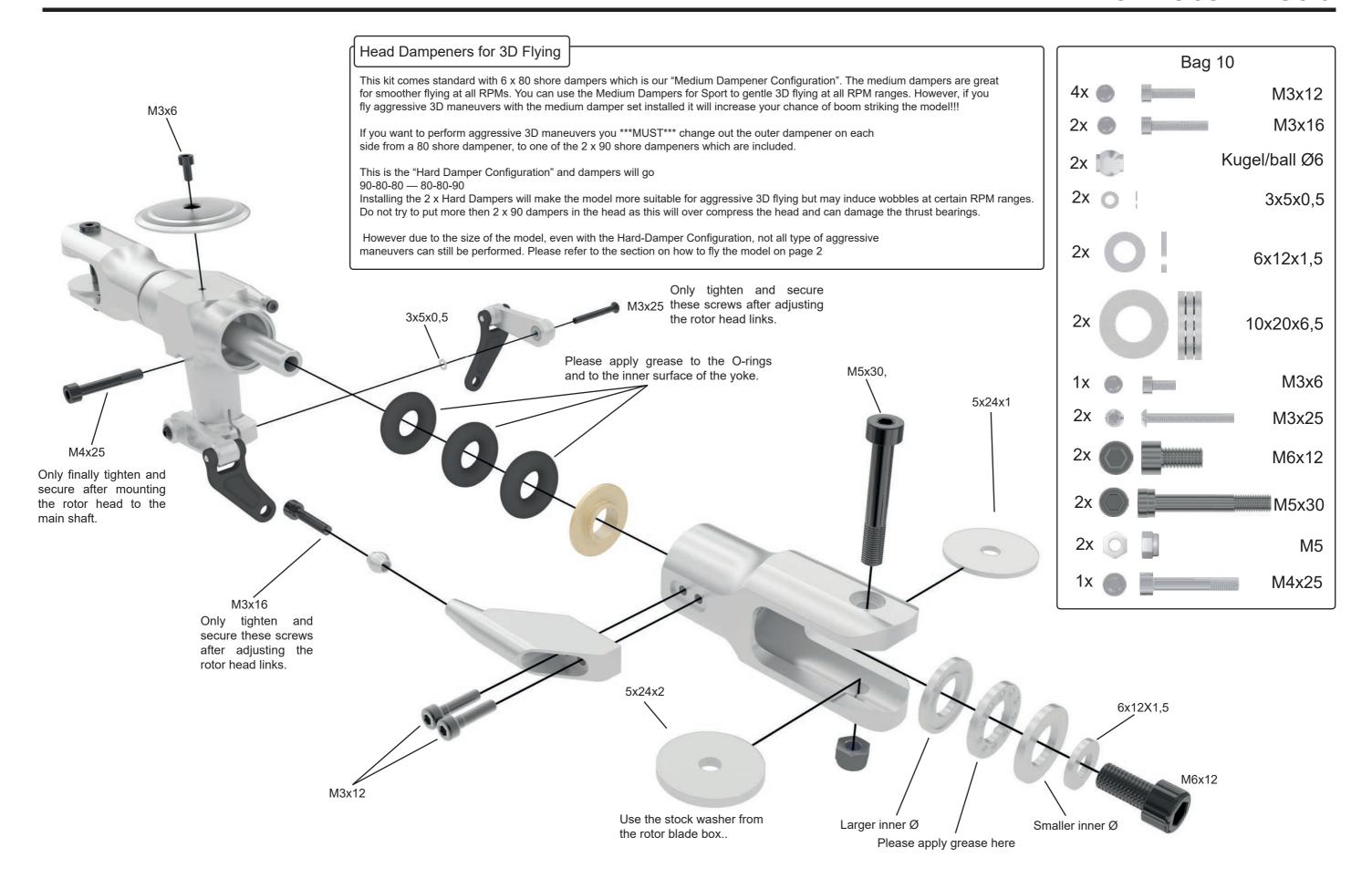


8 Tail Boom Brace

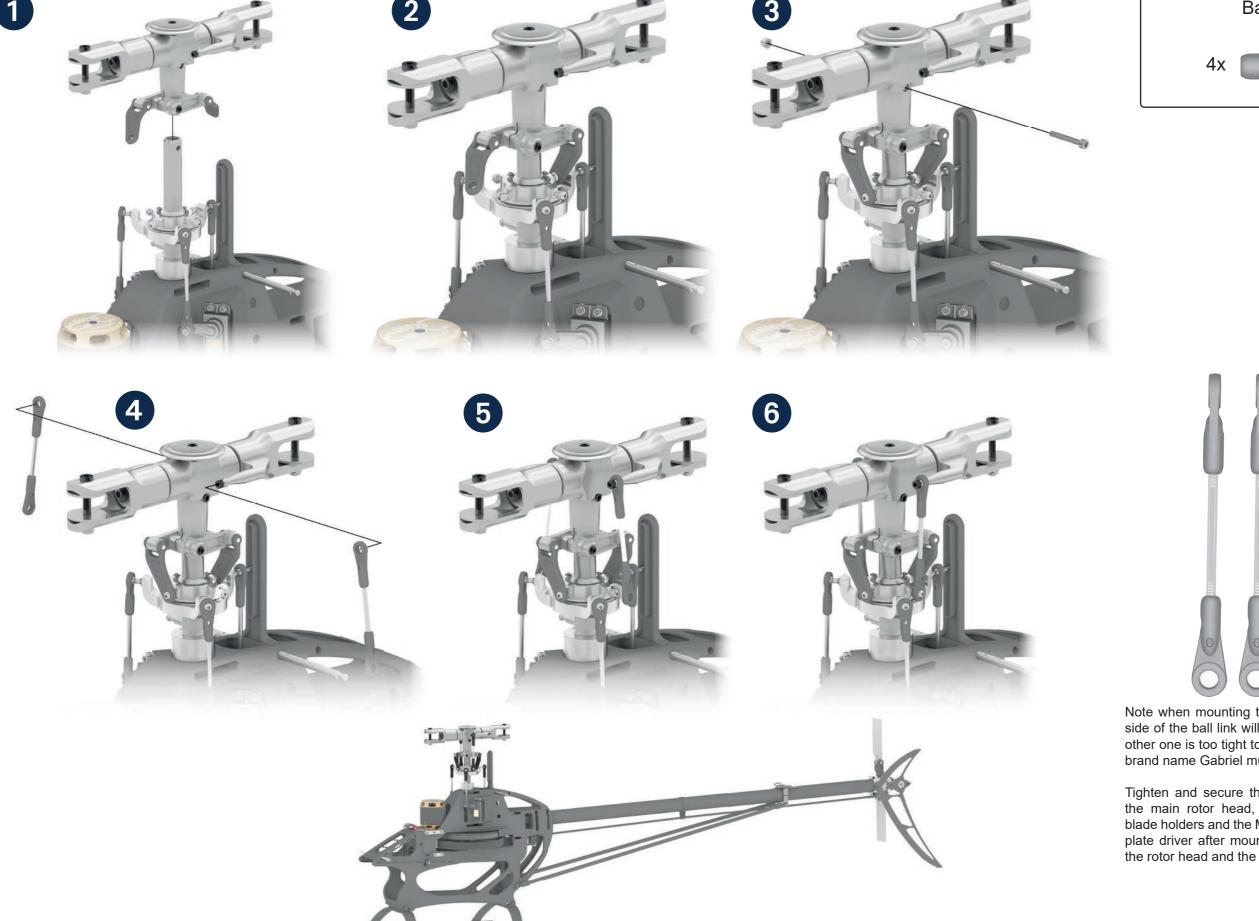


9 Swashplate

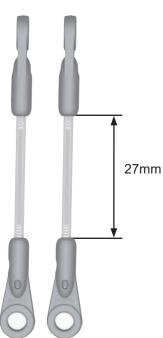




11 Rotor Head Linkage

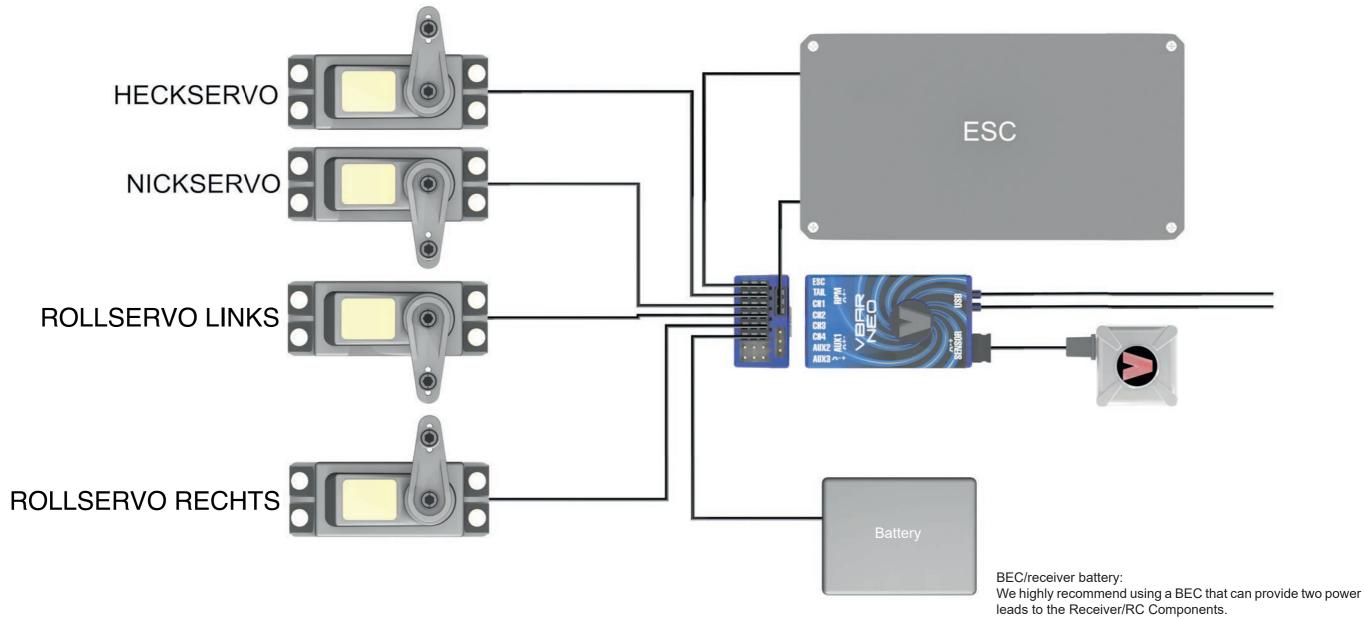






Note when mounting the ball links: One side of the ball link will clip on easily. The other one is too tight to clip on easily. The brand name Gabriel must point outwards.

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.

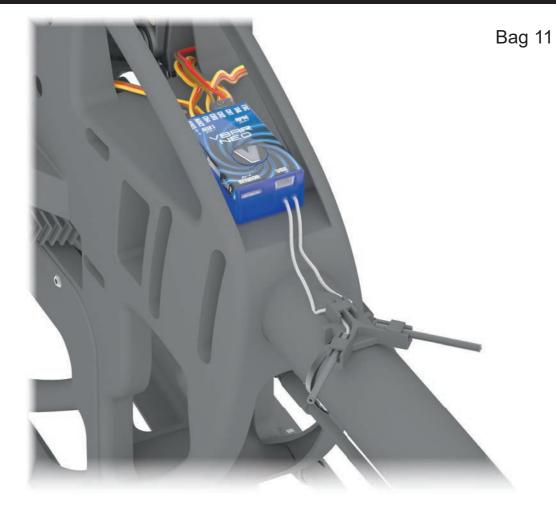


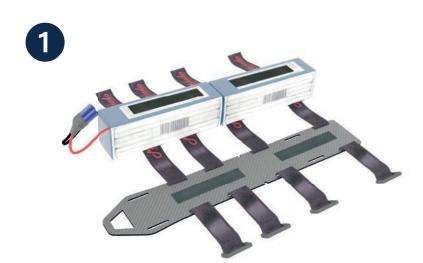
Wiring:

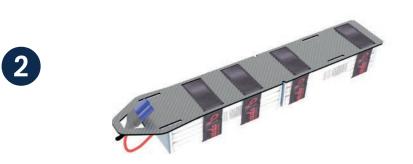
Please note: All wires must be placed in such a way that they cannot be damaged by any sharp edges during operation of the helicopter. Please apply the fabric tube and the edge guard provided in this kit. Both types of protection are also available individually from Mikado.

13 Mounting ESC/ Battery



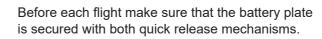








In case the battery plate can only be inserted into the chassis with difficulty in the beginning, please apply a small amount of silicone oil at the edges.





14 Canopy and Overview

Canopy Mounting

The Canopy of the Logo 800 is very large, and therefore requires four mounting points, rather then the standard two mounting points. The 2 extra mounting points in the front ensure that the canopy mounts firmly on the chassis and does not move.

One special feature of the Logo 800 Canopy is that the wrap around canopy design. This back area is connected via two pins and magnets. Please take your time and be gentle when sliding the canopy around the main shaft during mounting and dismounting otherwise you may damage your canopy.

Before each flight you should check that the canopy is mounted properly and securely. If the canopy sits loosely it may interfere with the swashplate linkages, or wearout prematurely. If the canopy comes off in flight likely your model will crash.

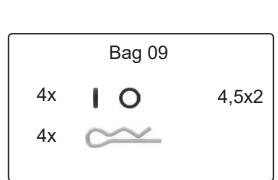
This canopy is 100% hand made. Small irregularities in the surface, the airbrush design and color are normal. They do not constitute a reason for complaint.

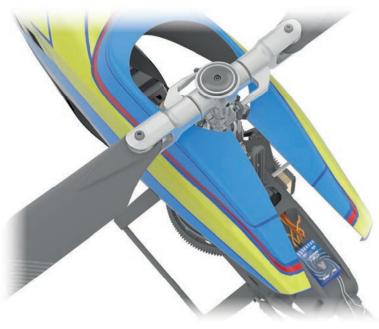
IMPORTANT NOTE:

Taking the Canopy On and Off requires a quite specific procedure. Please scan this QR code and watch our informational video about the easiest way to take the canopy on and off. www.uroehr.de/vtube/v/334 If you do not follow these steps, then you may find difficulties in mounting your canopy and may even damage it.











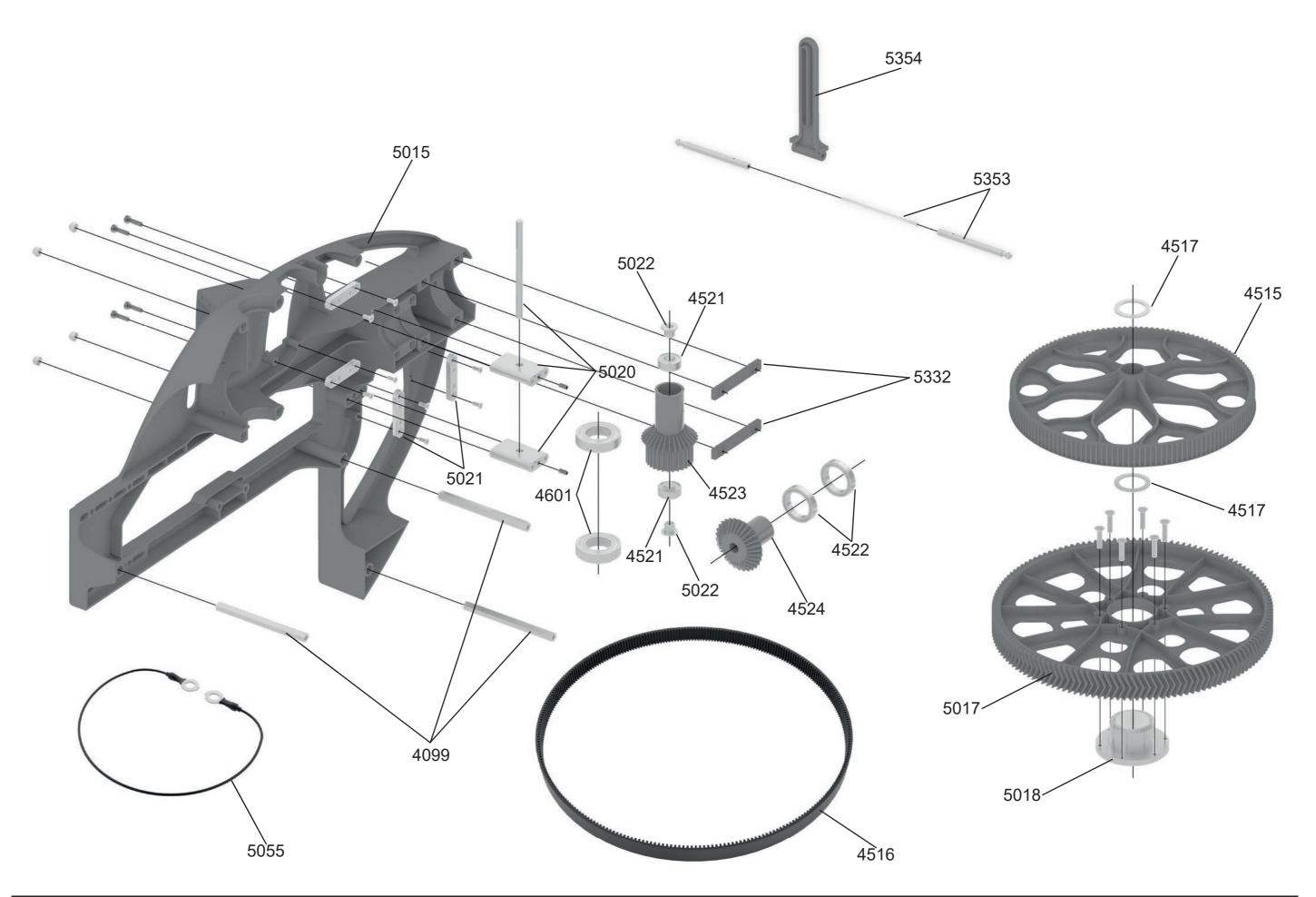




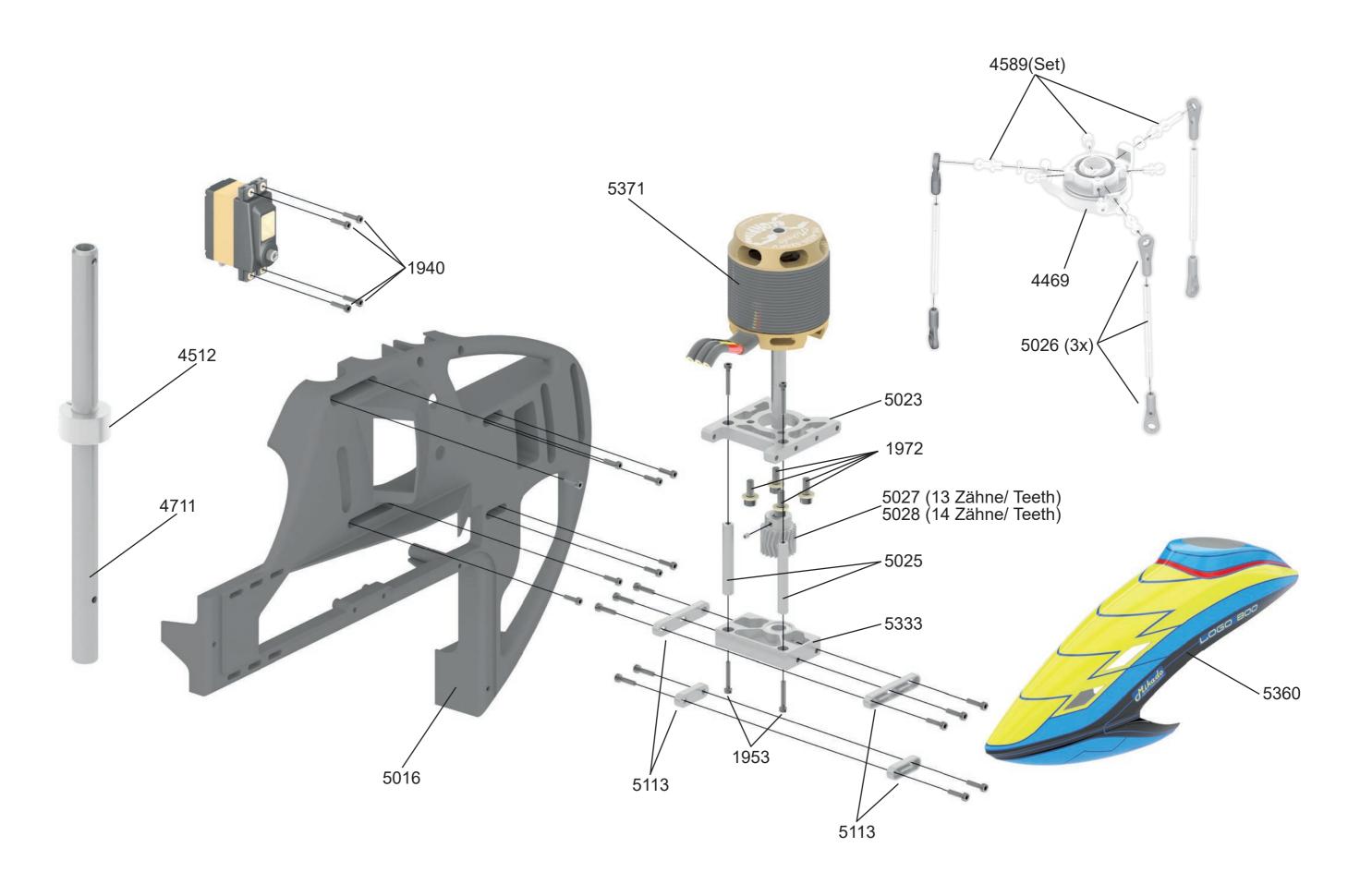


If you want to use the included edge protector, you have to enlarge the cutouts, for a perfect fit. Do a couple of small iterations and check in between, until the canopy sits tightly and braceless. Only then glue the edge protector.

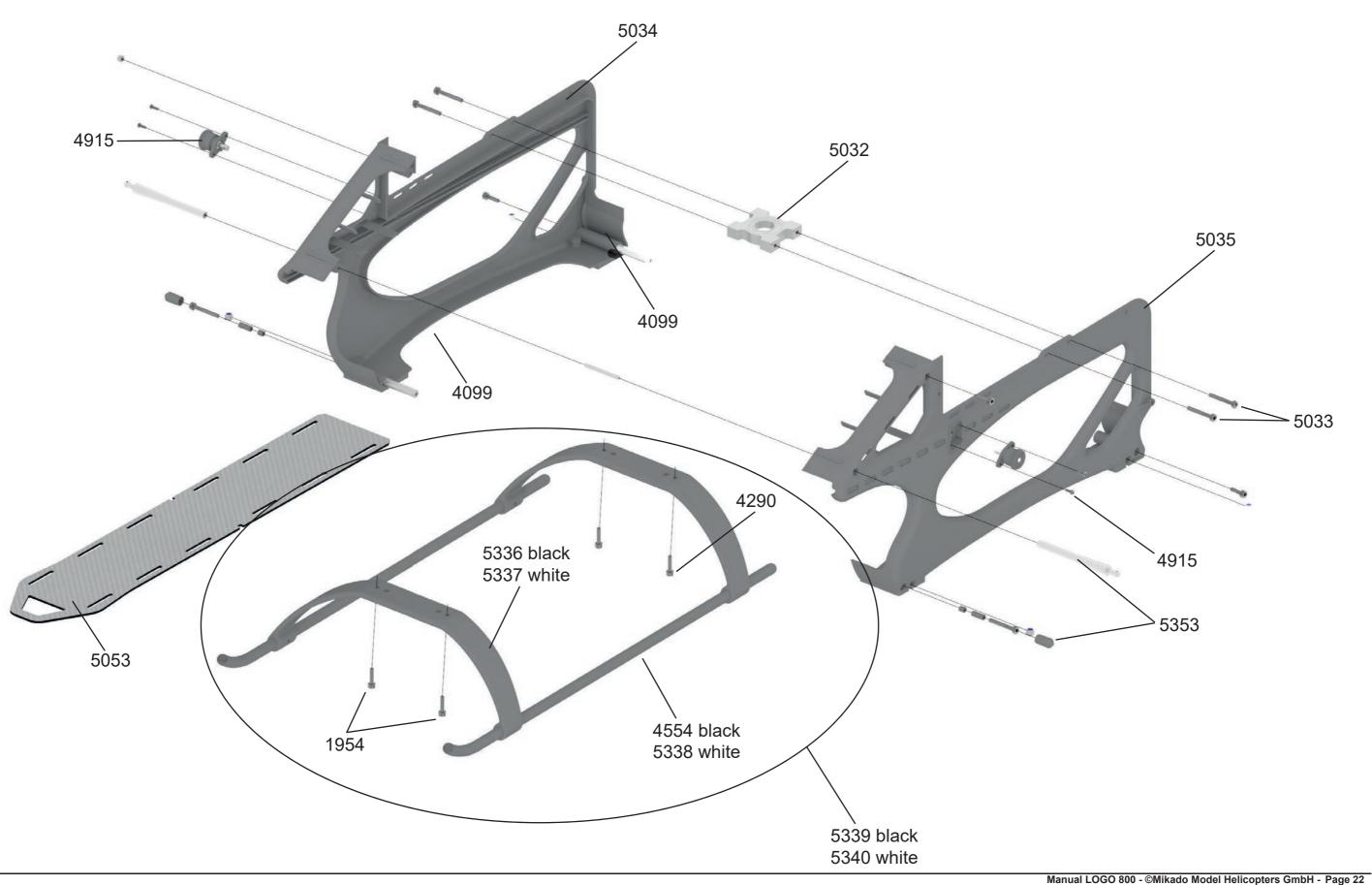
15 Overview Spare Parts Mainframe



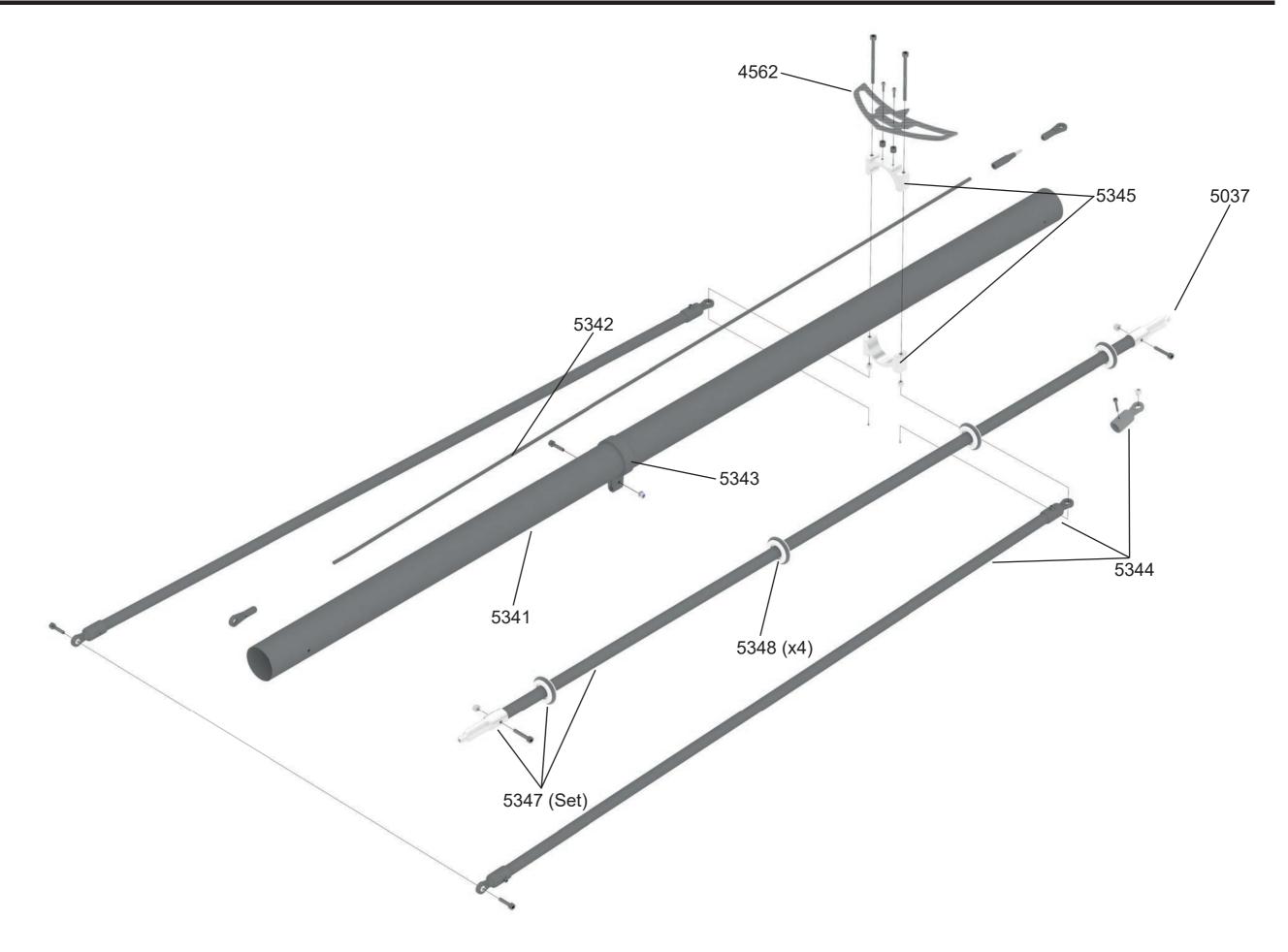
15 Overview Spare Parts Mainframe



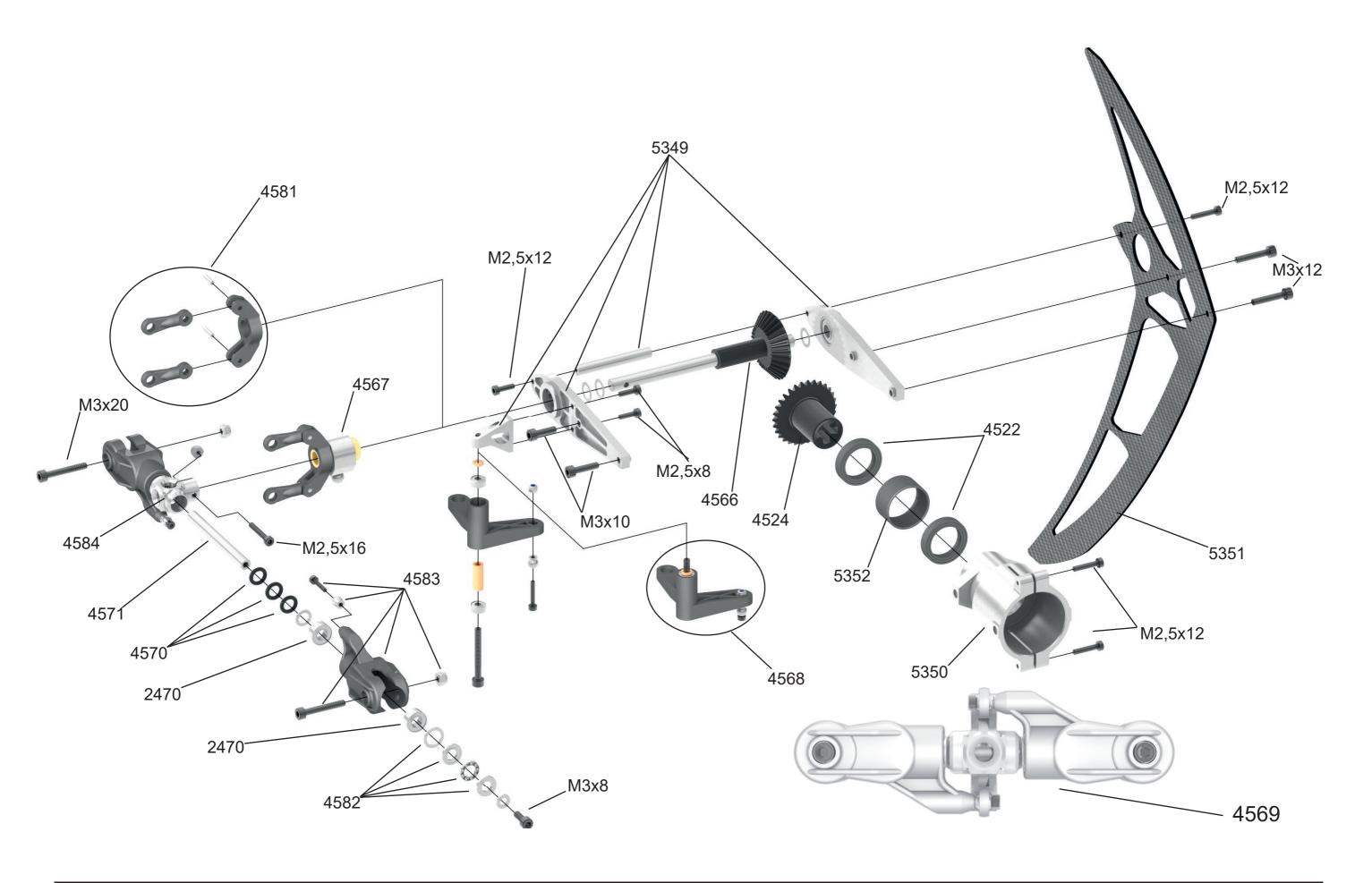
15 Overview Spare Parts Mainframe



16 Overview Spare Parts Tail Boom



17 Overview Spare Parts Tail Rotor



18 Overview Spare Parts Rotor Head

