

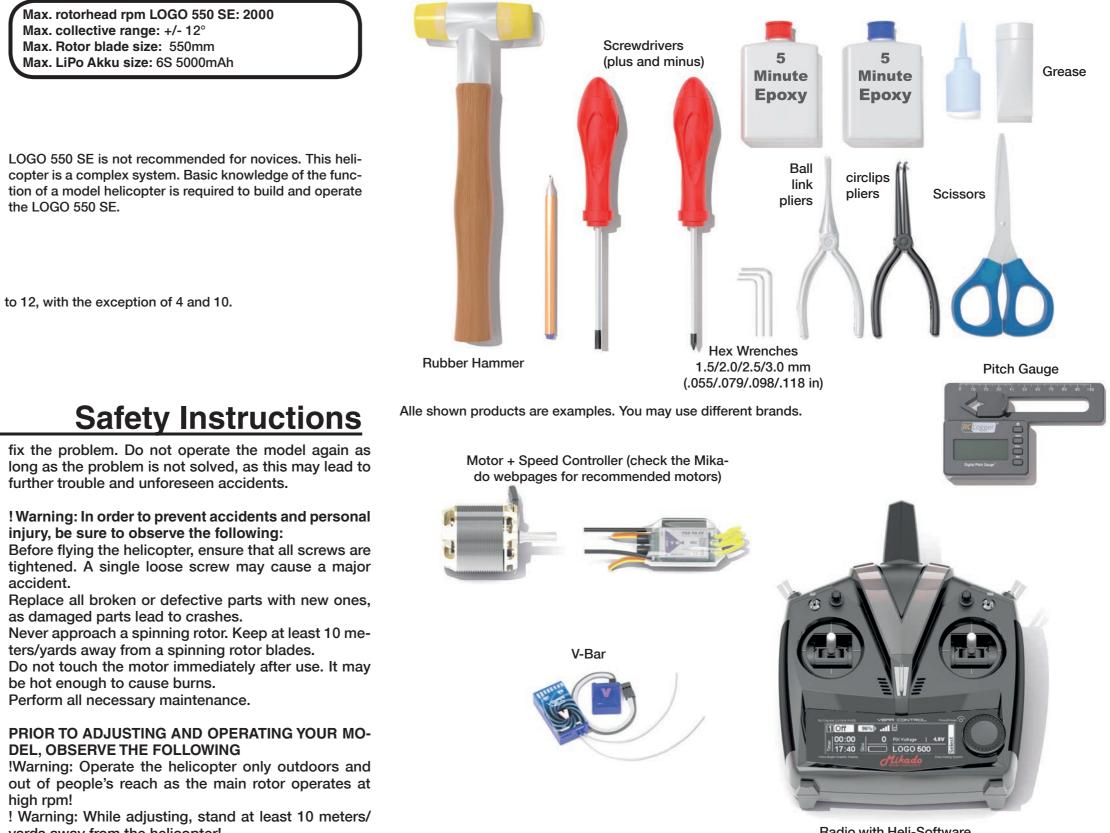




### Index

# **Tools for Assembly & R/C Equipment**

Threadlock







Battery



### Safety Instructions

**OPERATING YOUR MODEL SAFELY** 

people nearby.

4 Main Gear & Tail Boom Assembly . . . . . . . 6

Note: There is no bag 4 and 10. The bags are numbered 1 to 12, with the exception of 4 and 10.

!Warning: Do NOT operate the helicopter in the following places and situations (or else you risk severe ! Warning: In order to prevent accidents and personal accidents):

- in places where children gather or people pass through
- in residential areas and parks
- indoors and in limited space
- in windy weather or when there is any rain, snow, fog or other precipitation

If you do not observe these instructions you may be held reliable for personal injury or property damage! Always check the R/C system prior to operating your helicopter. When the R/C system batteries get weaker, Note that you may lose control of your model when operating it under such conditions.

Keep in mind that other people around you might also be operating a R/C model.

Never use a frequency which someone else is using at the same time. Radio signals will be mixed and you will lose control of your model.

If the model shows irregular behavior, bring the model to a halt immediately. Turn off all power switches and disconnect the batteries. Investigate the reason and

fix the problem. Do not operate the model again as Operate the helicopter in spacious areas with no long as the problem is not solved, as this may lead to further trouble and unforeseen accidents.

Max. rotorhead rpm LOGO 550 SE: 2000

Max. collective range: +/- 12°

the LOGO 550 SE.

Max. Rotor blade size: 550mm

Max. LiPo Akku size: 6S 5000mAh

injury, be sure to observe the following:

Before flying the helicopter, ensure that all screws are tightened. A single loose screw may cause a major accident.

Replace all broken or defective parts with new ones, as damaged parts lead to crashes.

Never approach a spinning rotor. Keep at least 10 meters/vards away from a spinning rotor blades.

Do not touch the motor immediately after use. It may be hot enough to cause burns.

Perform all necessary maintenance.

### the operational range of the R/C system decreases. PRIOR TO ADJUSTING AND OPERATING YOUR MO-**DEL, OBSERVE THE FOLLOWING**

!Warning: Operate the helicopter only outdoors and out of people's reach as the main rotor operates at hiah rom!

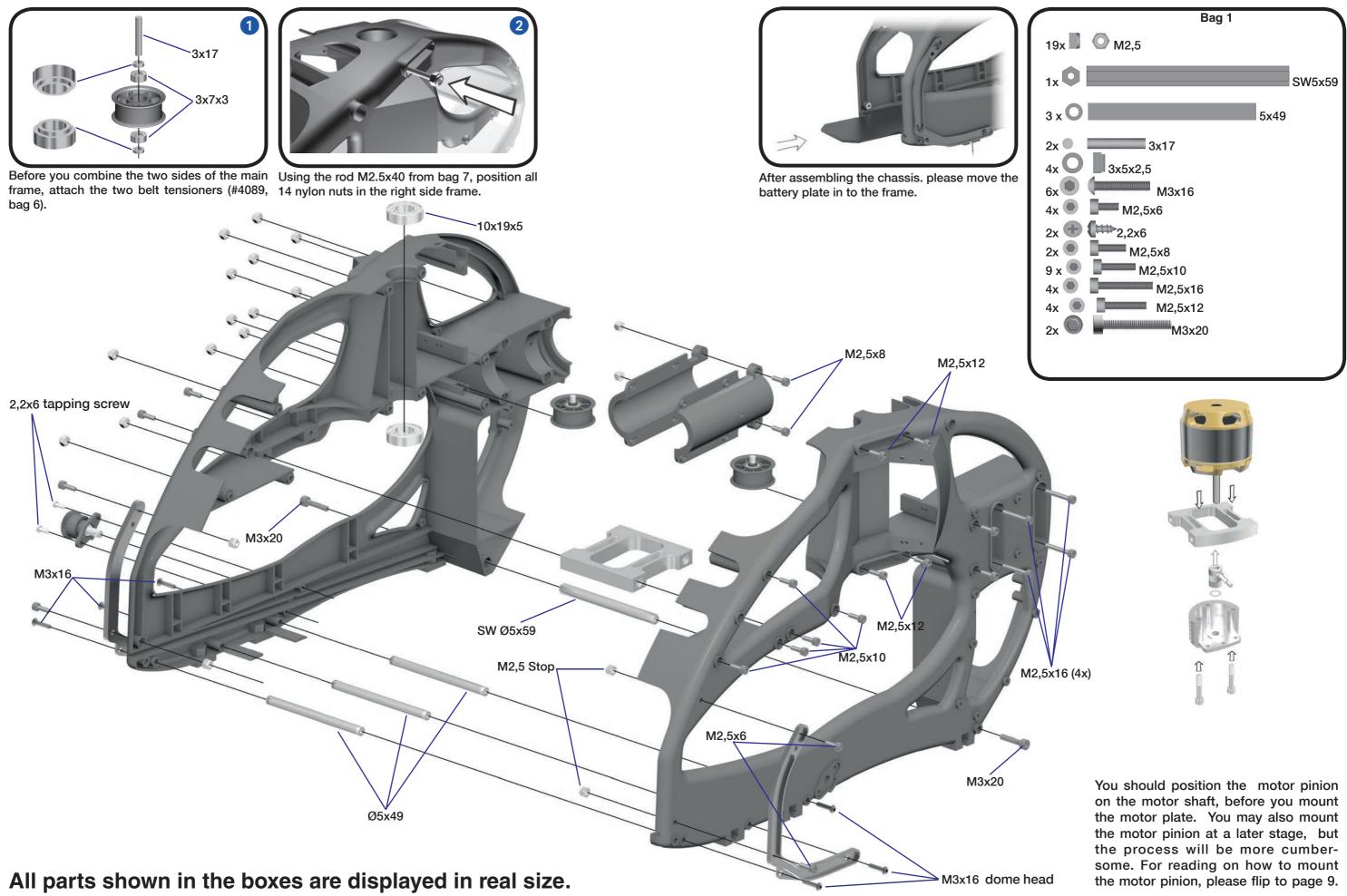
! Warning: While adjusting, stand at least 10 meters/ vards away from the helicopter!

Novice R/C helicopter pilots should always seek advice from experienced pilots to obtain hints with assembly and for pre-flight adjustments. Note that a badly assembled or insufficiently adjusted helicopter is a safety hazard!

In the beginning, novice R/C helicopter pilots should always be assisted by an experienced pilot and never fly alone!

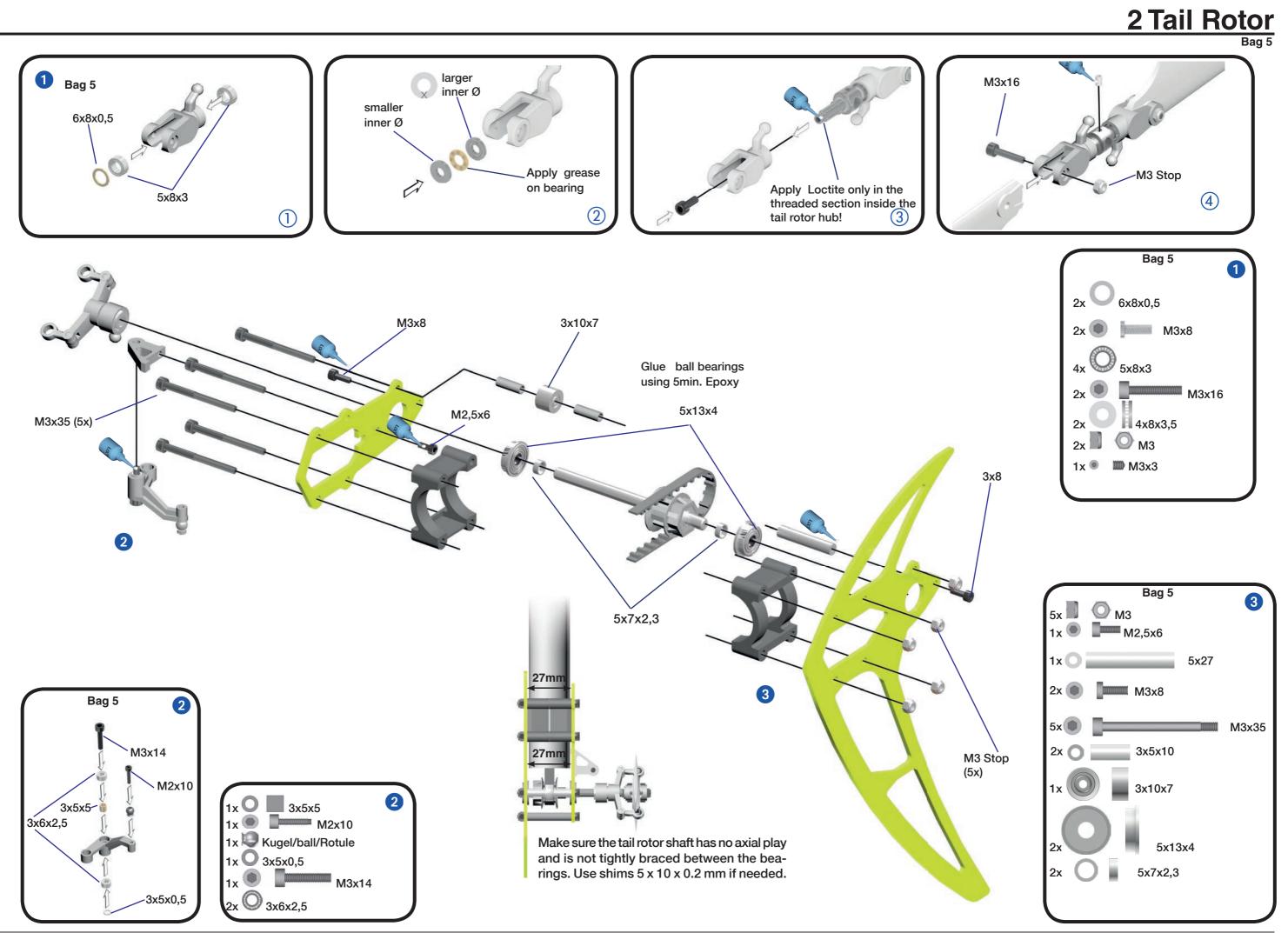
Radio with Heli-Software



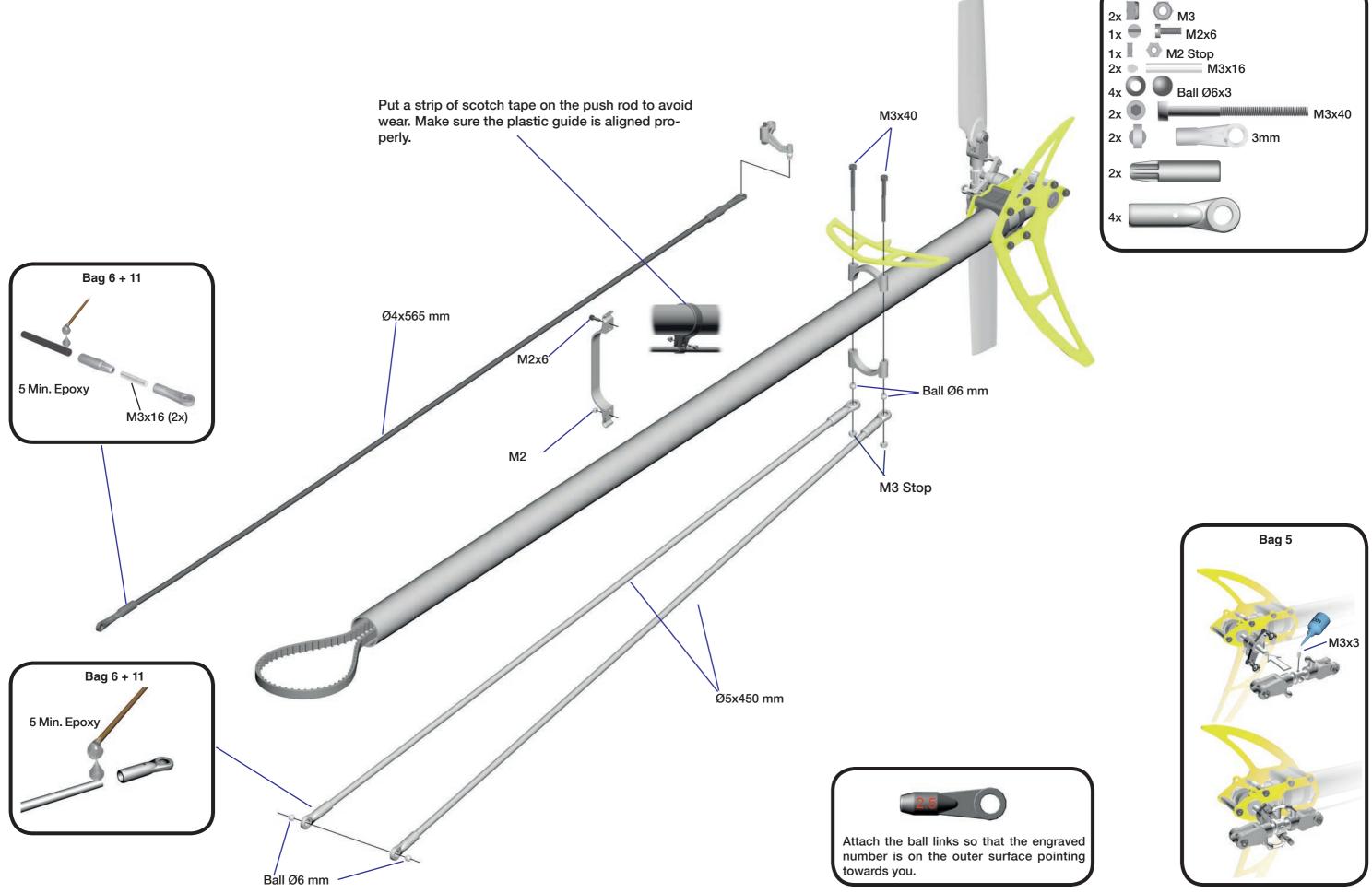


# **1** Mainframe

Bag 1

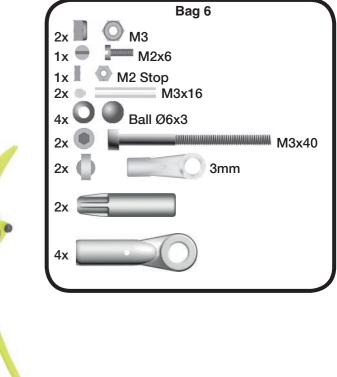


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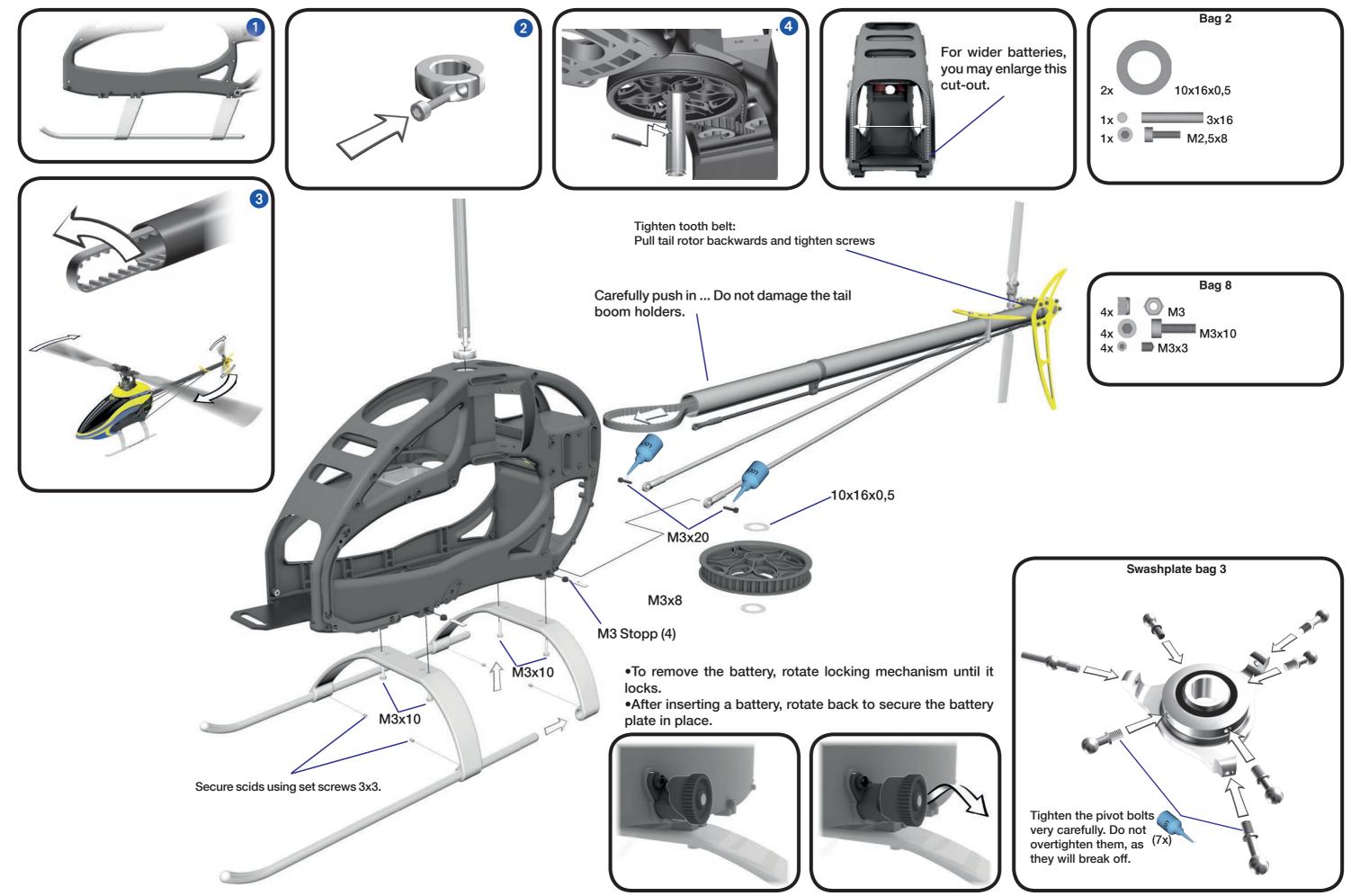
# 3 Tail Boom

Bag 6 • Bag 11

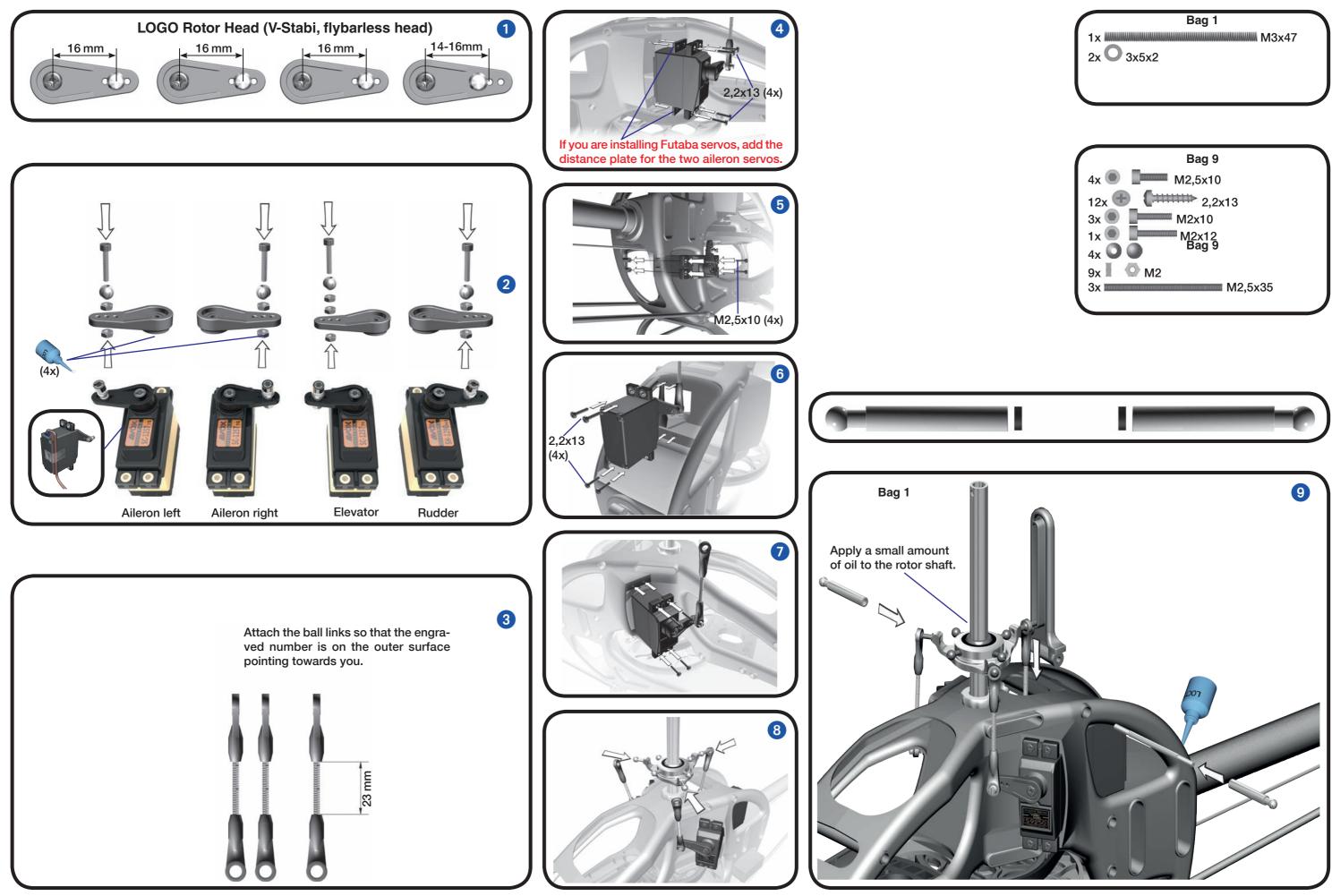


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# 4 Main Gear & Tail Boom Assembly



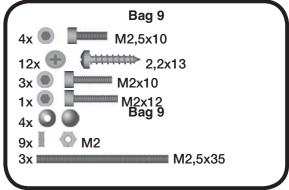
Bag 2 • Bag 3 • Bag 8



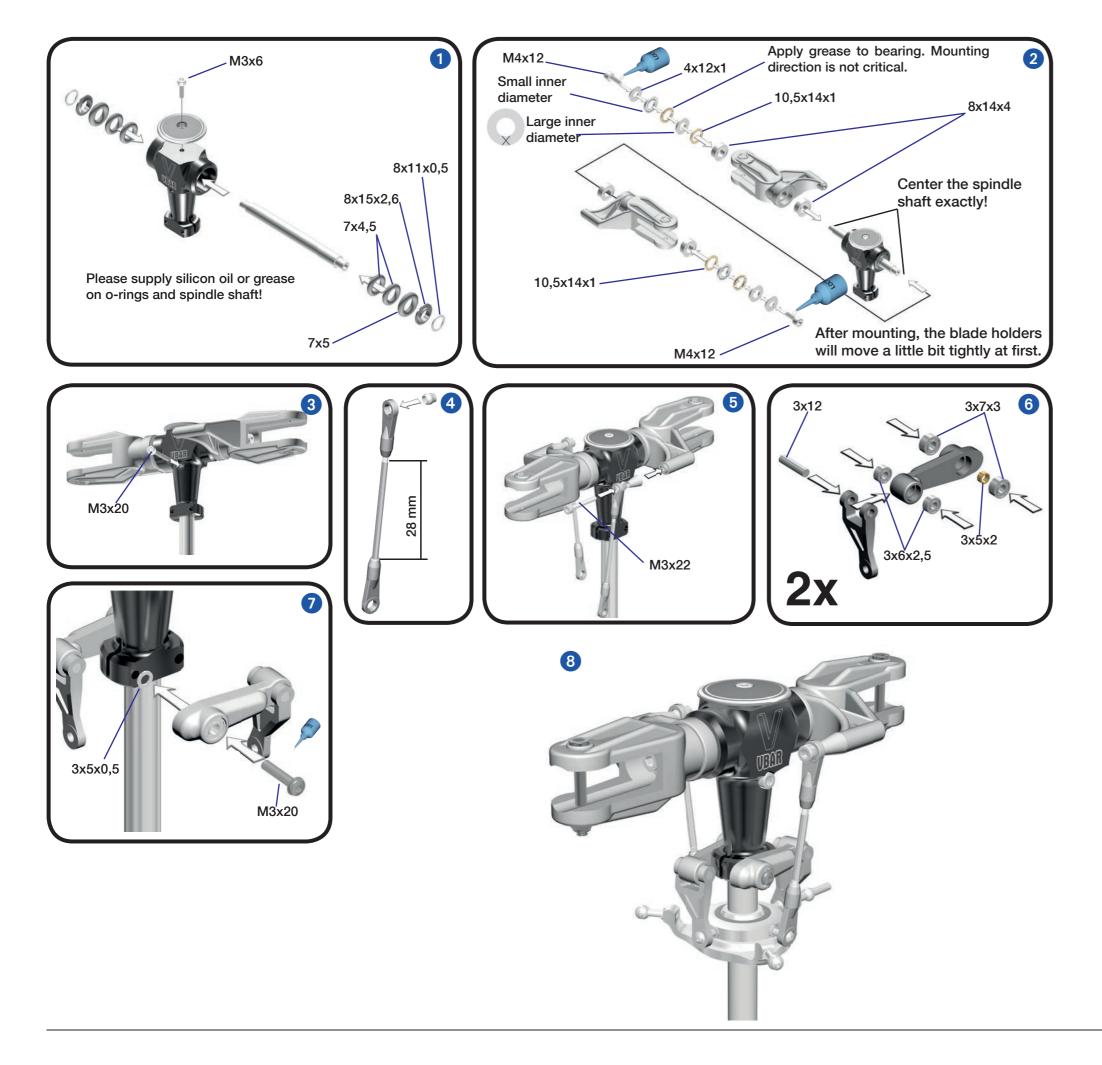
# **5 Servo Installation**

Bag 1 • Bag 9



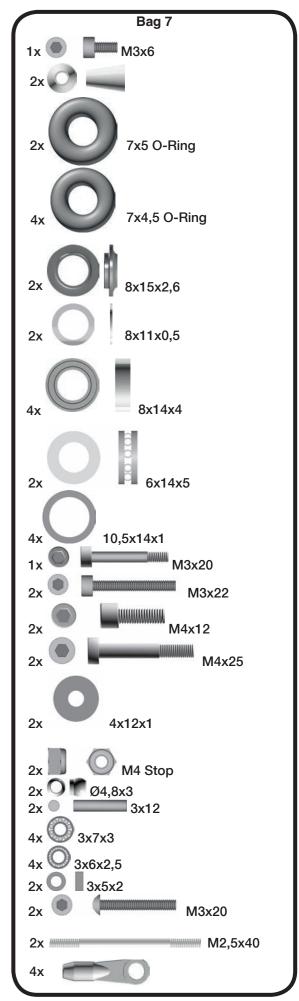


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# **6 V-Bar Rotor Head LOGO 550SX**

Bag 7



### 7 Mounting the Motor

For mounting the new motor counterbearing with ro-

torshaft suport, please follow these steps: First, mount the

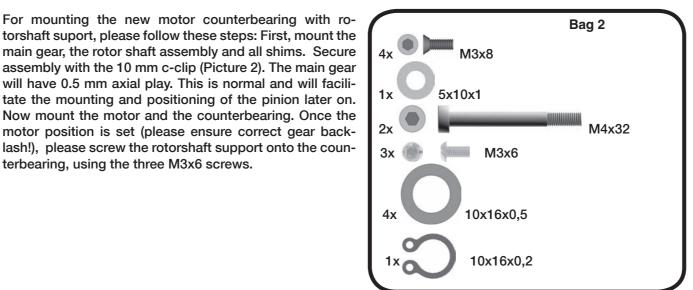
assembly with the 10 mm c-clip (Picture 2). The main gear will have 0.5 mm axial play. This is normal and will facili-

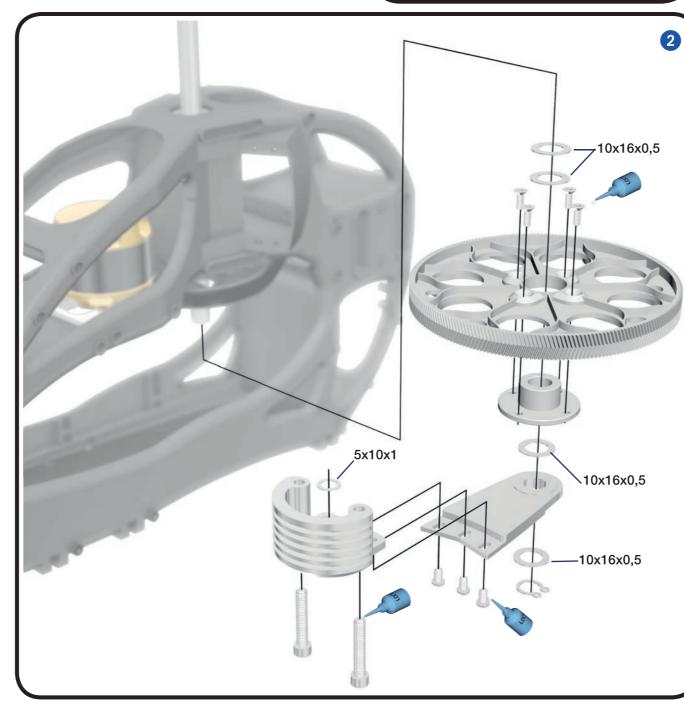
tate the mounting and positioning of the pinion later on. Now mount the motor and the counterbearing. Once the

motor position is set (please ensure correct gear backlash!), please screw the rotorshaft support onto the coun-

terbearing, using the three M3x6 screws.



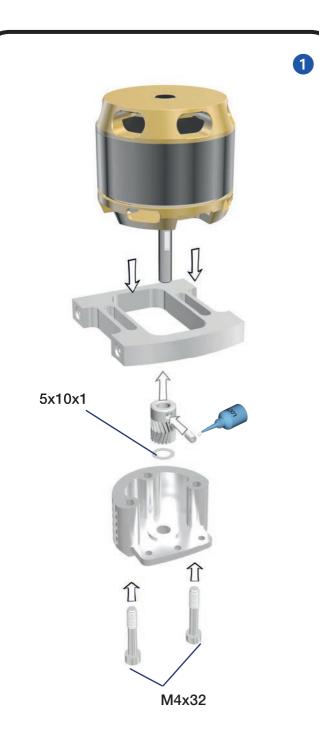




Installation of the Motor Pinion Screw the motor pinion onto the motor shaft, making sure that it can still be moved. Now mount the motor on the motor plate and move the pinion so it is aligned well with the main gear. As visual help for aligning the pinion you may use the small ridge which separates the two parts of the pinion. When the pinion is aligned correctly it will easily engage with the main gear. If the pinion does not engage with the main gear, it is not correctly aligned. After the pinion is correctly aligned, take the motor out of the mainframe and tighten the set screw.

Gear Backlash

Please mount the motor, motor plate, pinion and counterbearing as illustrated in the above picture. When positioning the pinion, please ensure that it sits exactly on the ball bearing of the counterbearing with only one shim (5x10x1) inbetween. Also make sure that the M3 set screw sits on the flattened area of the motor shaft.

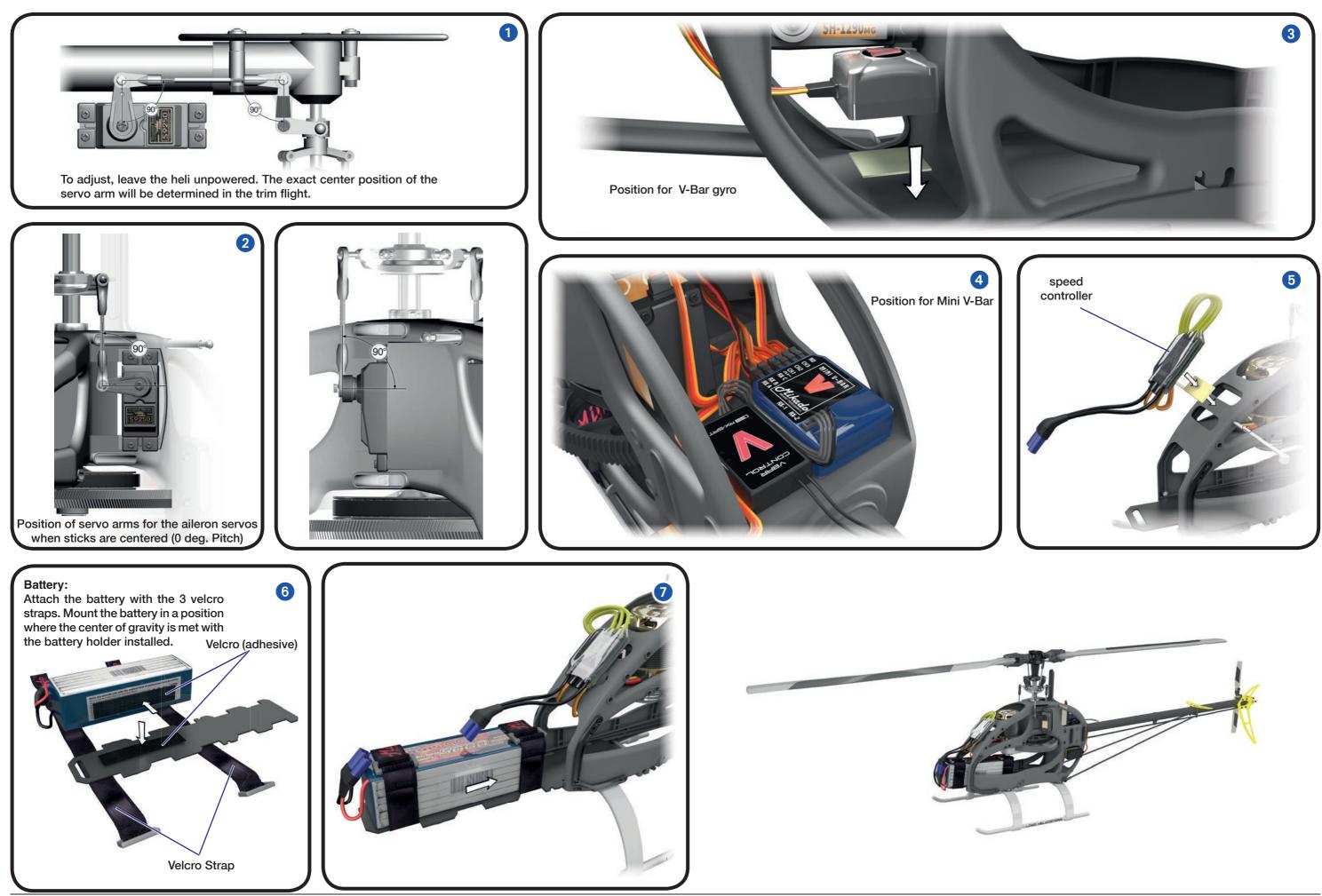


# 8 Mounting the Canopy

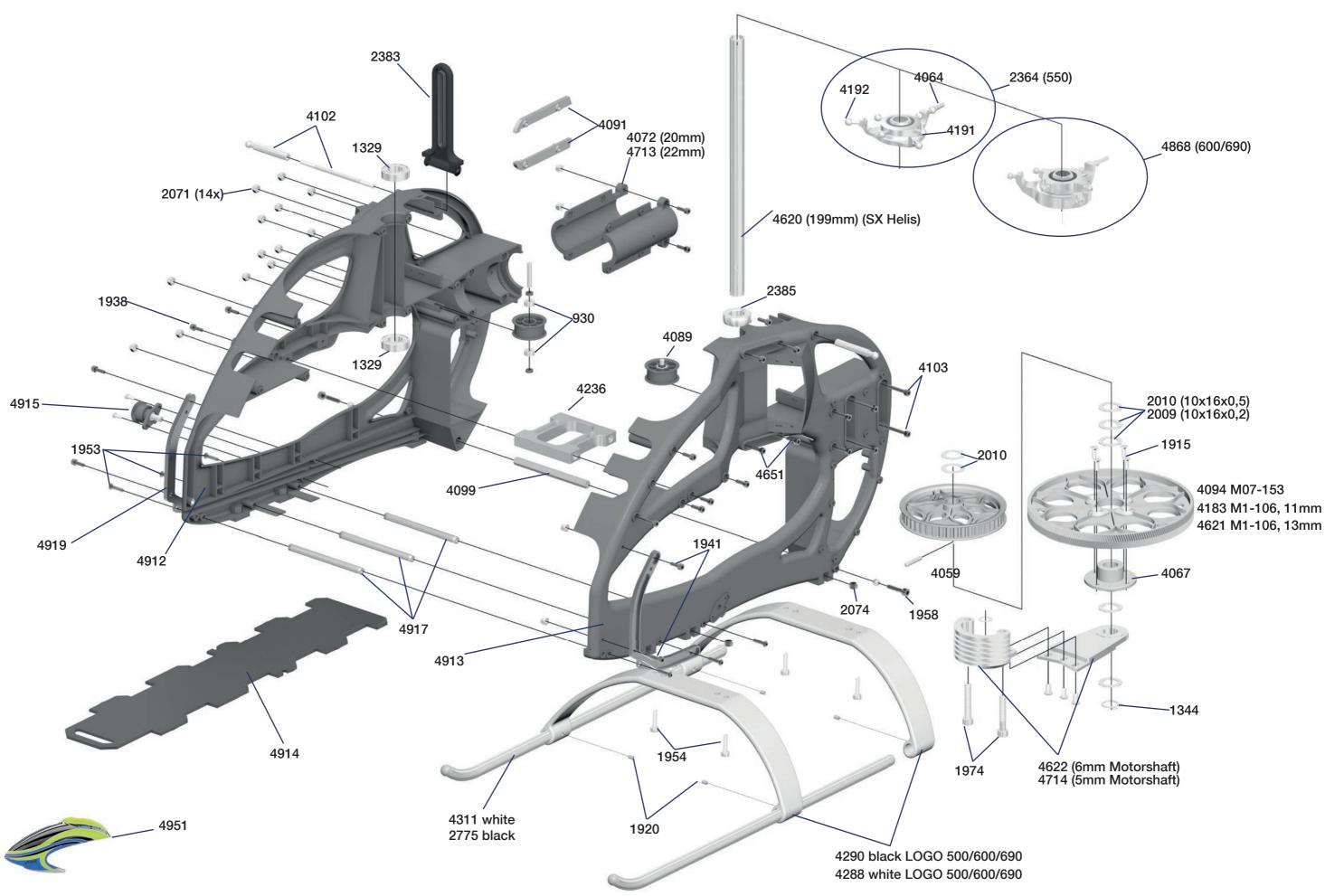
Bag 1,2



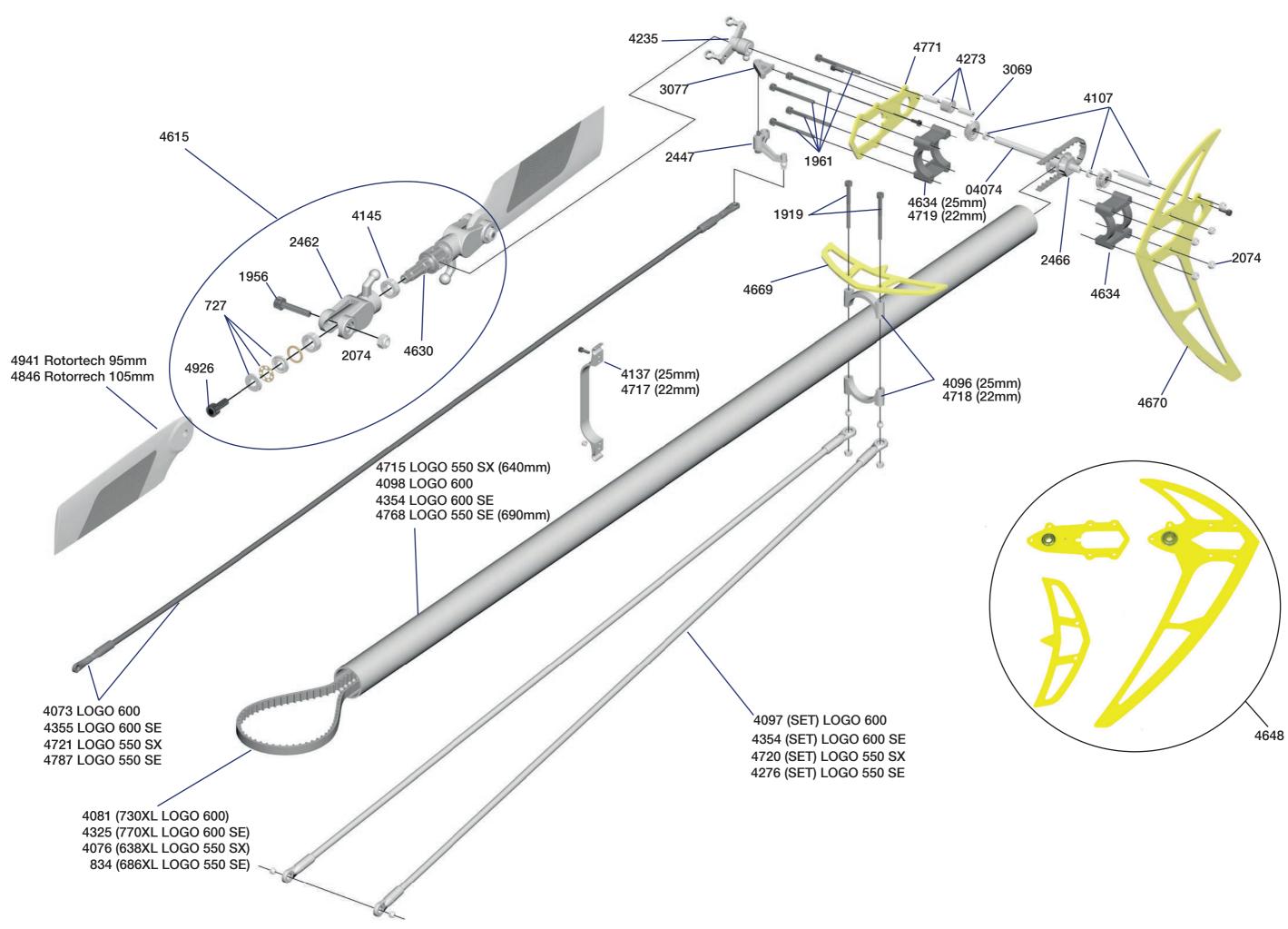
Move the motor with the pinion until it is limited by the gear. Tighten one of the M4x32 screws slightly. You must still be able to swivel the motor around its own axis. In this way you can easily determine the correct distance between the main gear and the pinion. There should be no (!) gear backlash. At the same time, the motor should not (!) exert any pressure onto the running surface of the main gear. After you have determined the correct distance, tighten the second M4x32 screw.



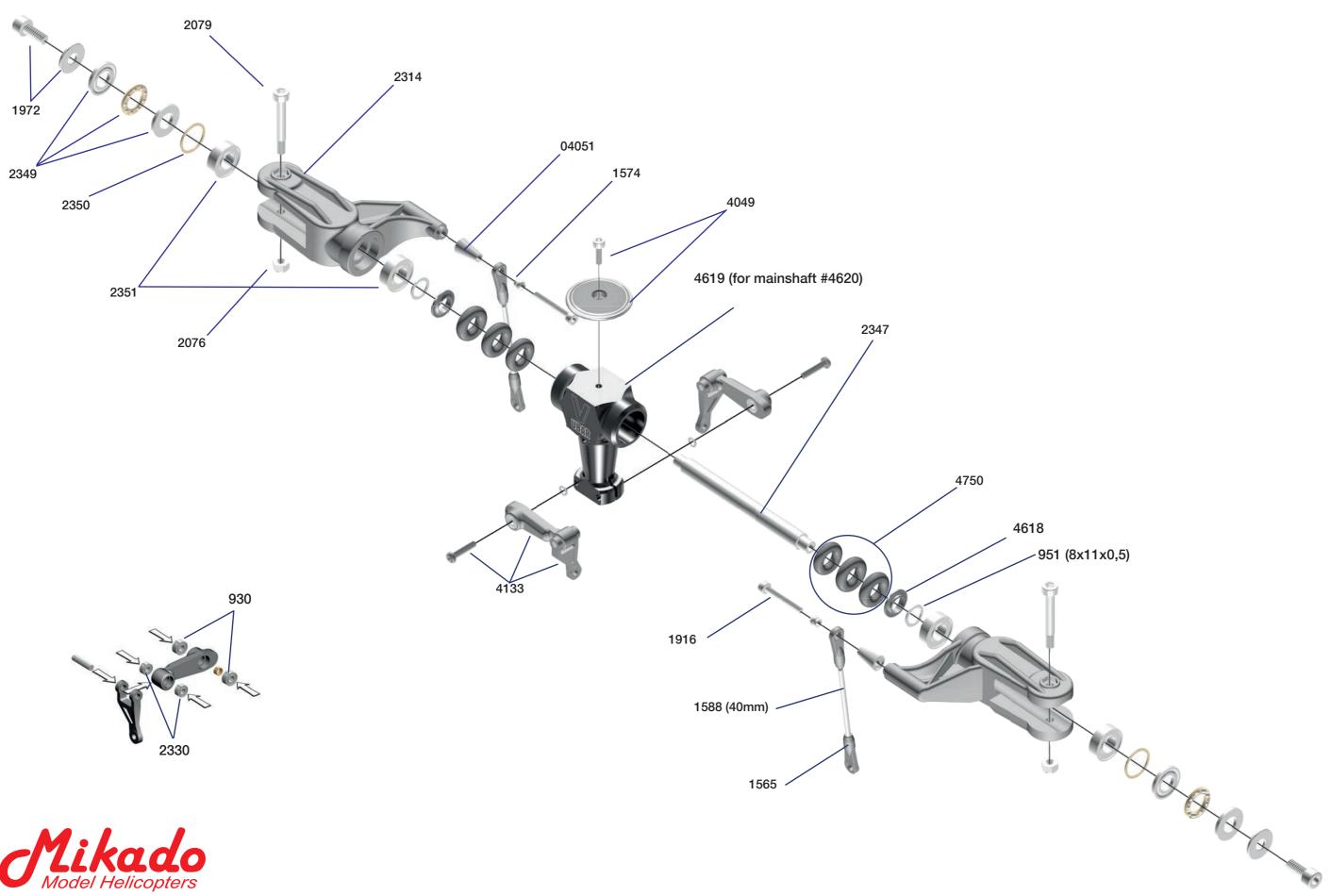
## 9 Radio and Battery



### **10 Overview Chassis**



### **11 Overview Tail Rotor**





Construction & Rendering: Mehran Mahinpour Tirooni, André Doil • Layout & Realisation: CDT, André Doil

### **12 Overview V-Bar Head**