

Manual

LOGO 500

Mikado
Model Helicopters
www.mikado-heli.de



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Max. rotorhead rpm LOGO 500: 2000
Max. collective range: +/- 12°
Max. Rotor blade size: 500 mm - 550 mm
Max. LiPo Akku size: 6S 5000 mAh

LOGO 500 is not recommended for novices. This helicopter is a complex system. Basic knowledge of the function of a model helicopter is required to build and operate the LOGO 500.

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

Safety Instructions

OPERATING YOUR MODEL SAFELY

Operate the helicopter in spacious areas with no people nearby.

!Warning: Do NOT operate the helicopter in the following places and situations (or else you risk severe 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, the operational range of the R/C system decreases. 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 long as the problem is not solved, as this may lead to further

trouble and unforeseen accidents.

!Warning: In order to prevent accidents and personal 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/yards 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.

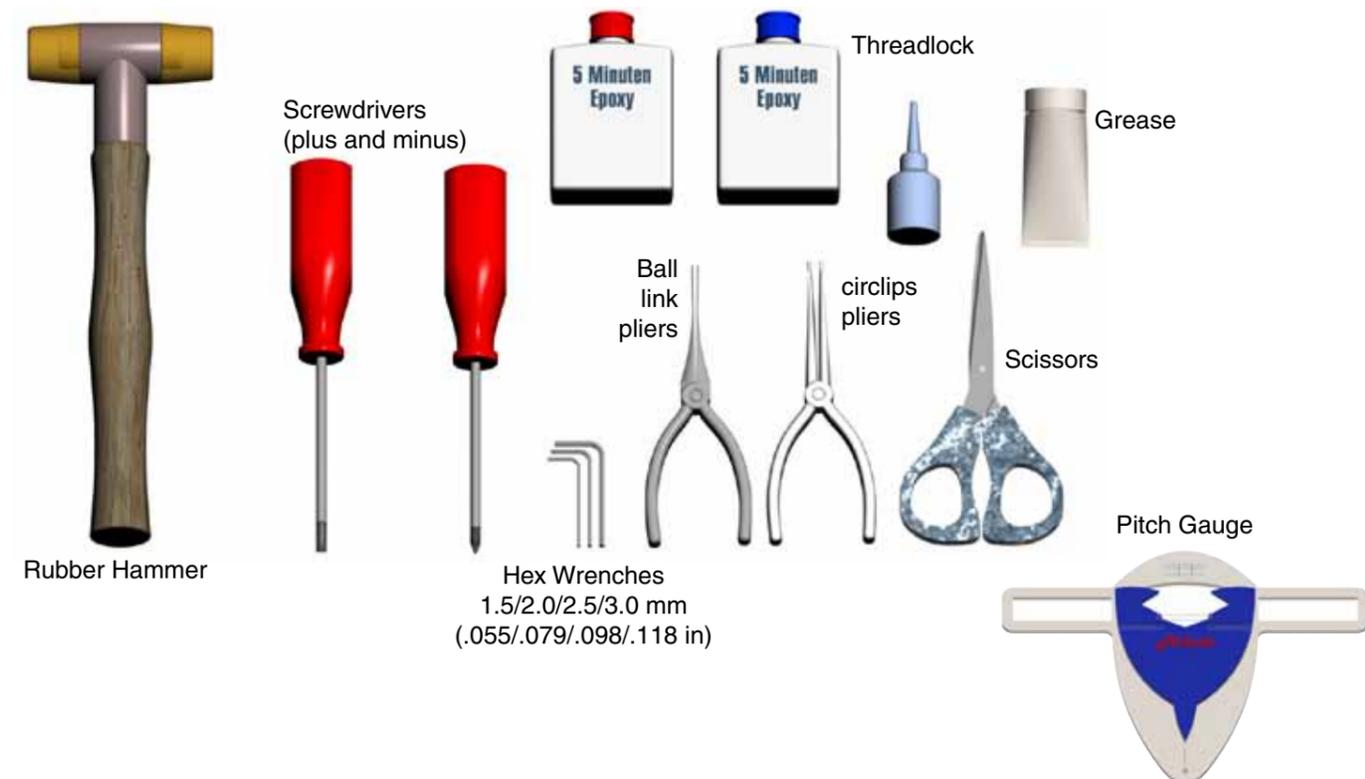
PRIOR TO ADJUSTING AND OPERATING YOUR MODEL, OBSERVE THE FOLLOWING

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

! Warning: While adjusting, stand at least 10 meters/yards 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!



Alle shown products are examples. You may use different brands.

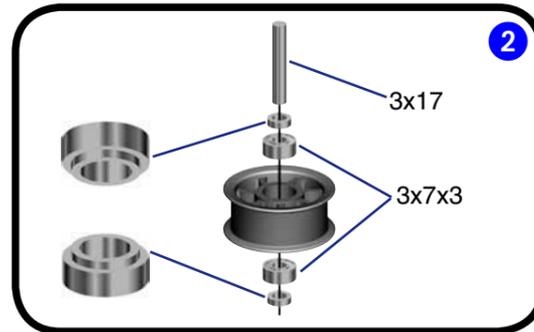


1 Mainframe

Bag 1



Using the rod M2.5x60 (bag 7), position all 14 nylon nuts in the right side frame.

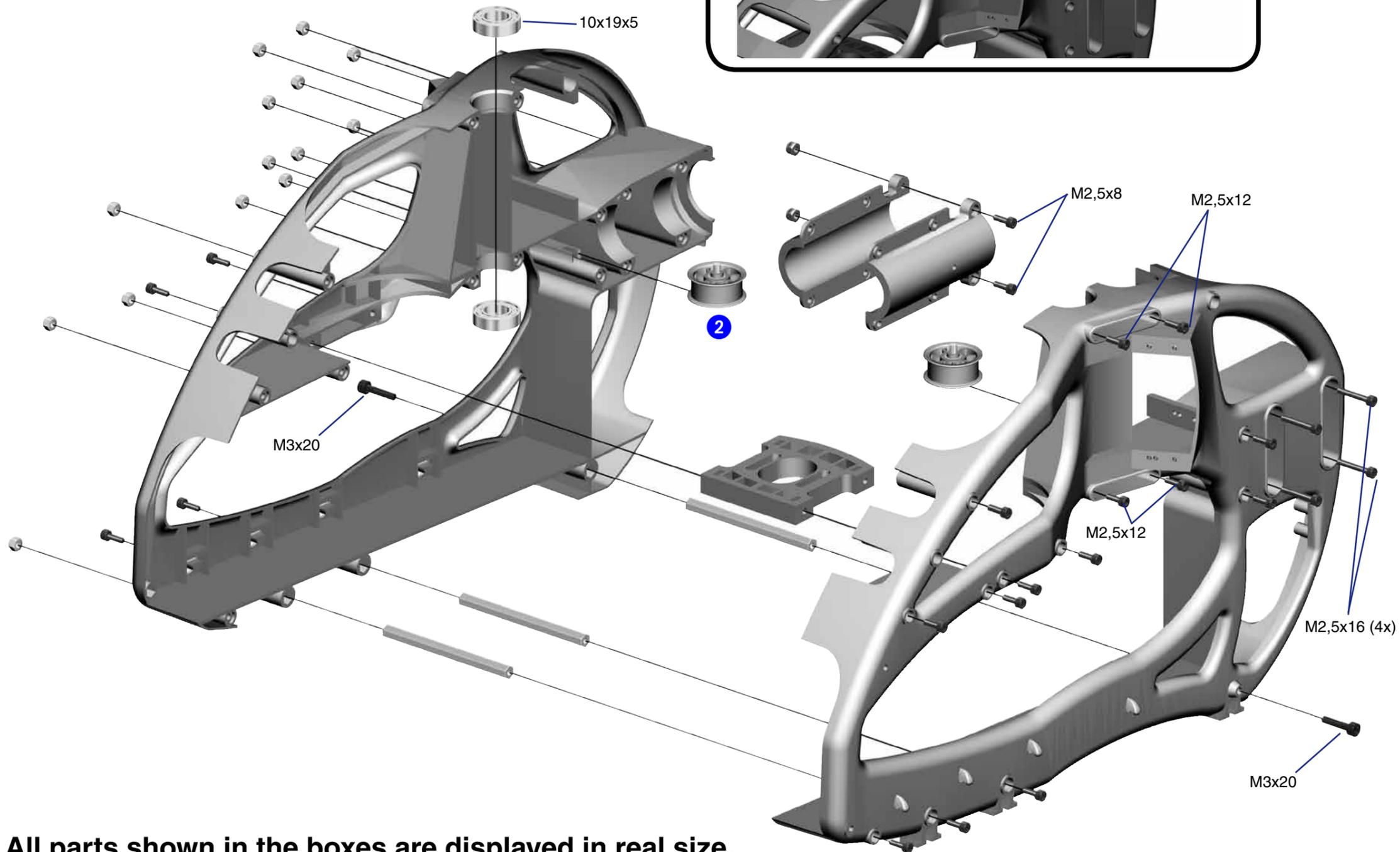


Before you combine the two sides of the main frame, attach the two belt tensioners (#4089, bag 6).



Bag 1

- 16x M2,5
- 3x SW5x59
- 2x 3x17
- 4x 3x5x2,5
- 10x M2,5x10
- 2x M2,5x8
- 4x M3x10
- 4x M2,5x16
- 4x M2,5x12
- 2x M3x20
- 1x M3x45
- 2x 3x5x1,2

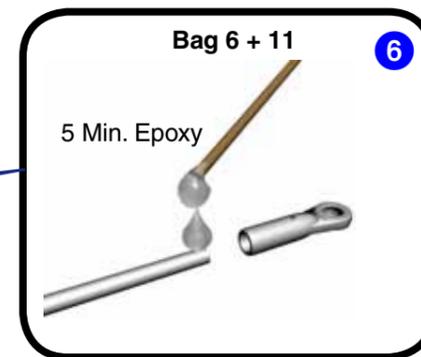
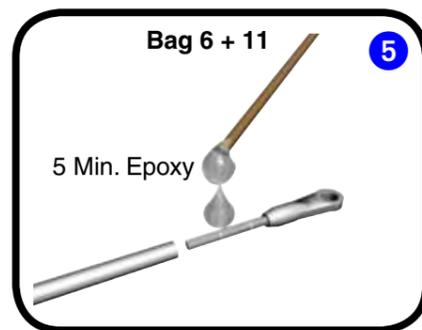
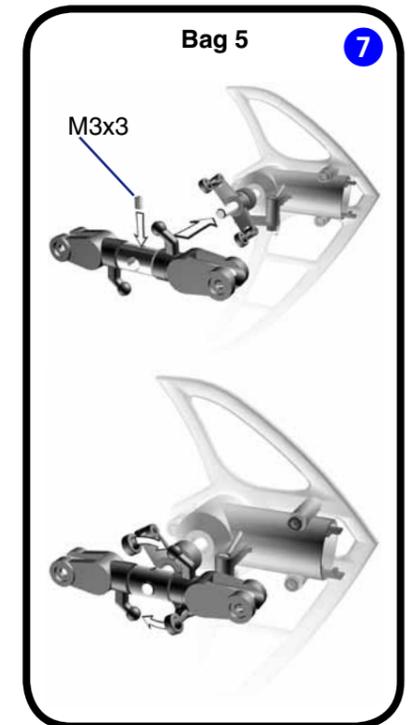
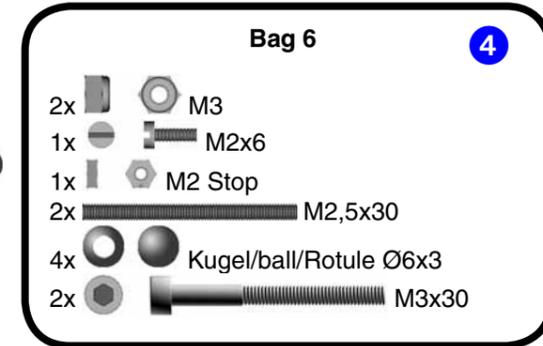
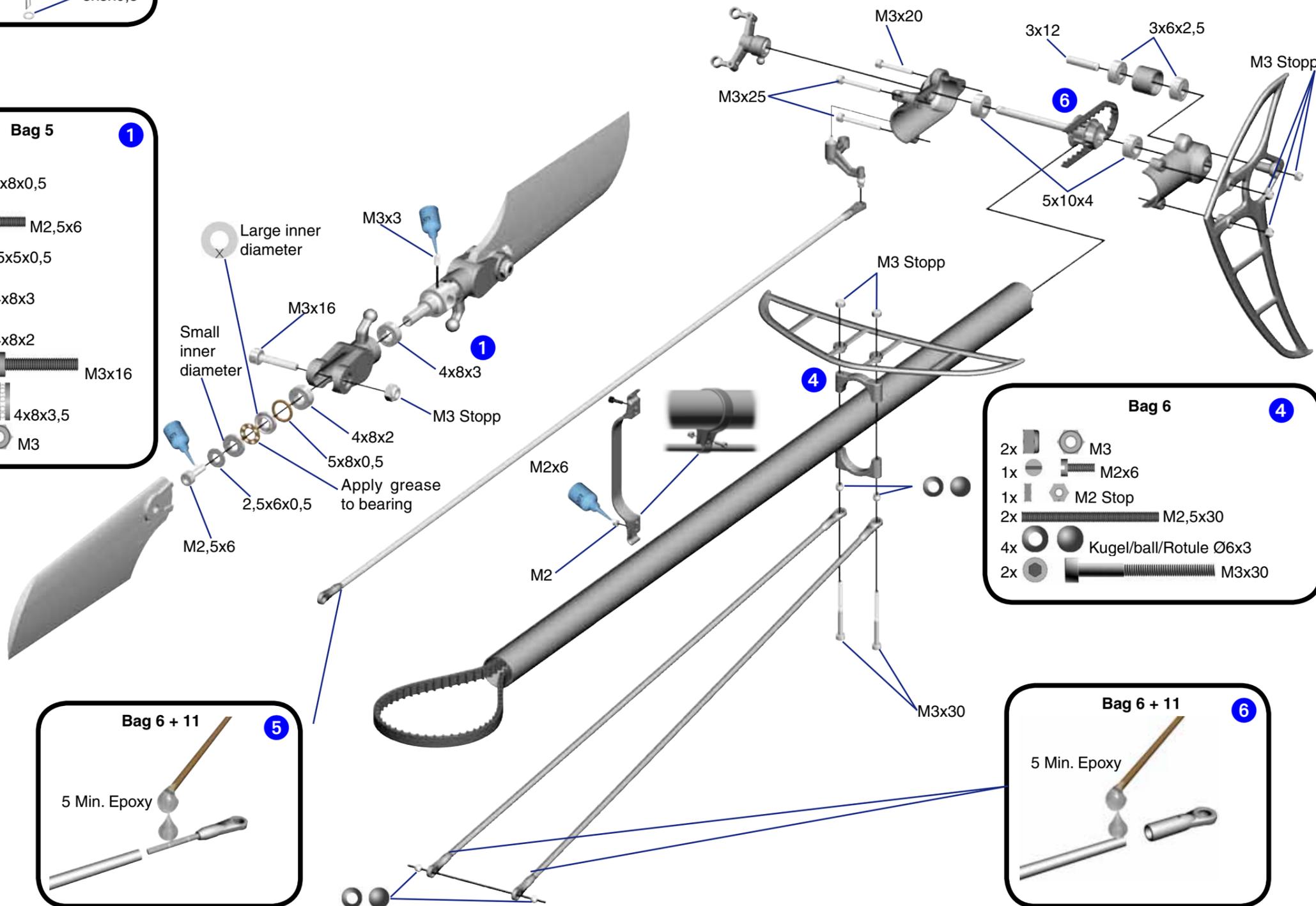
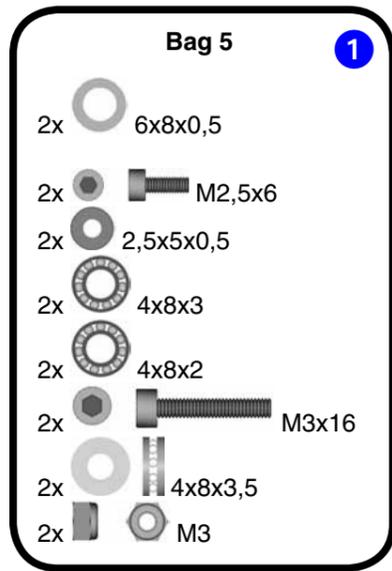
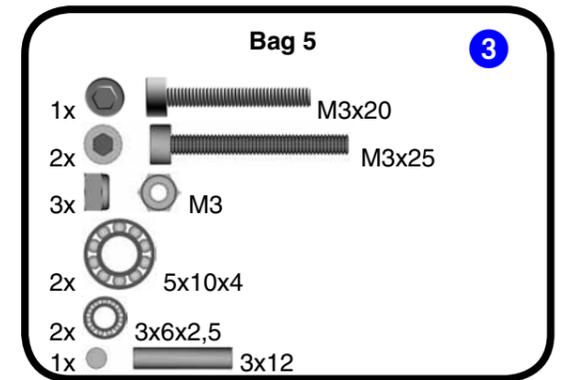
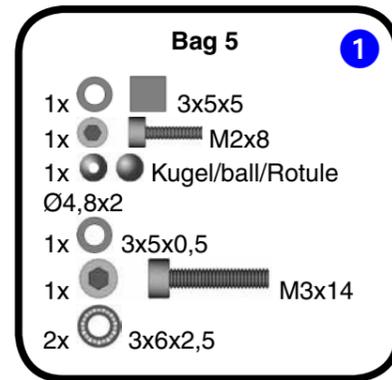
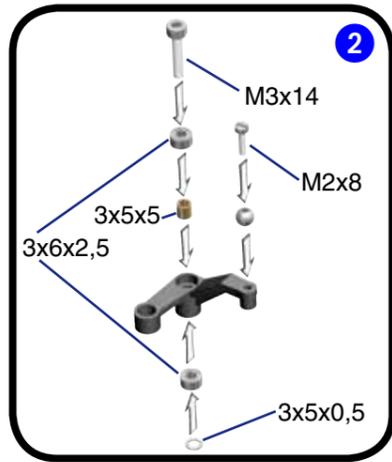


All parts shown in the boxes are displayed in real size.

2 Tail Rotor & Tail Boom

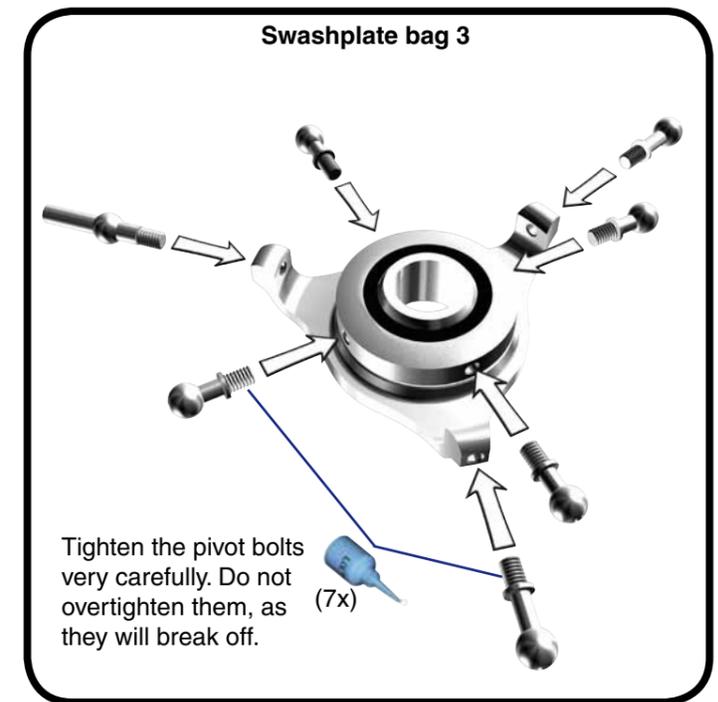
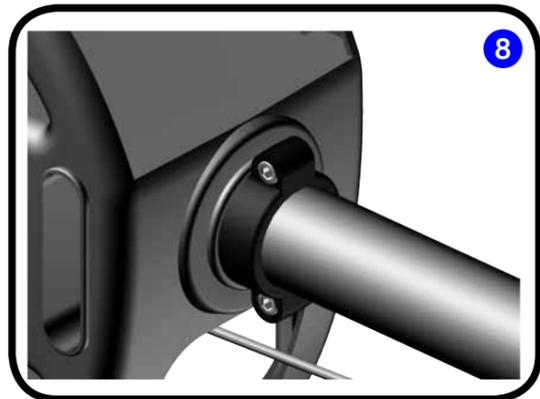
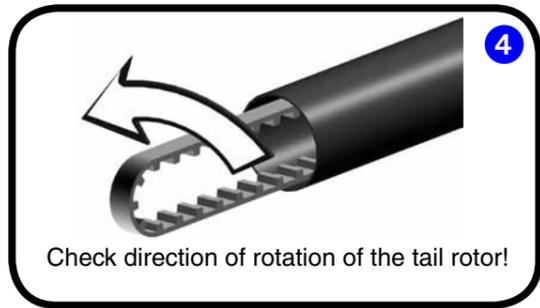
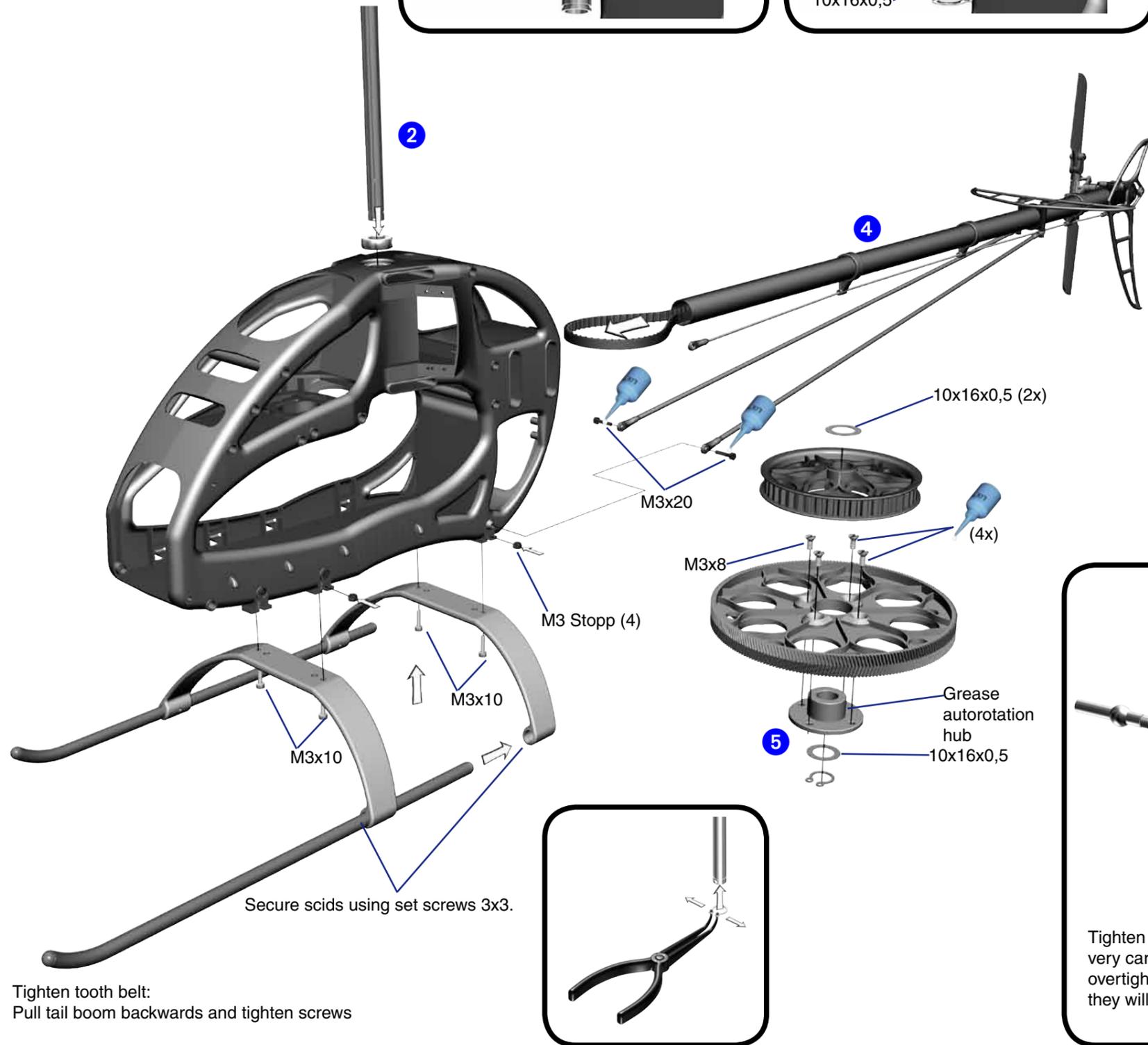
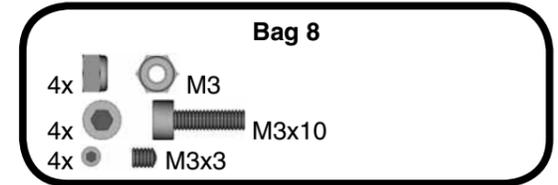
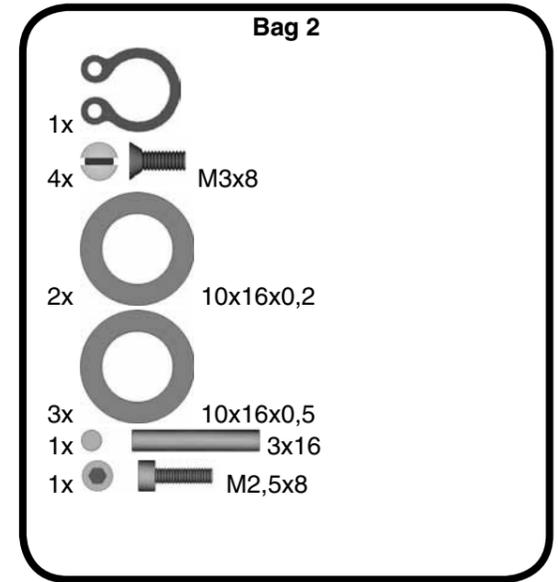
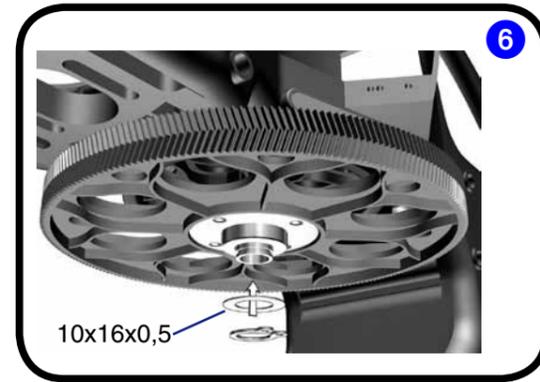
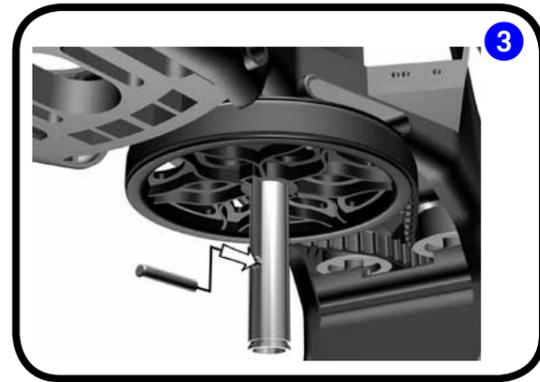
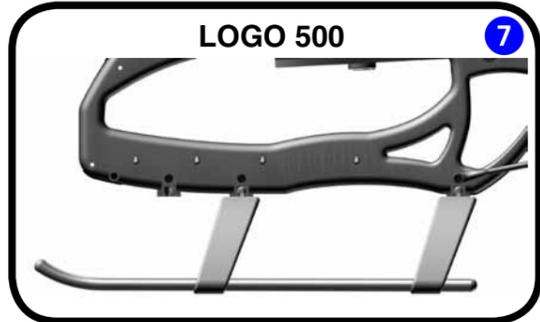
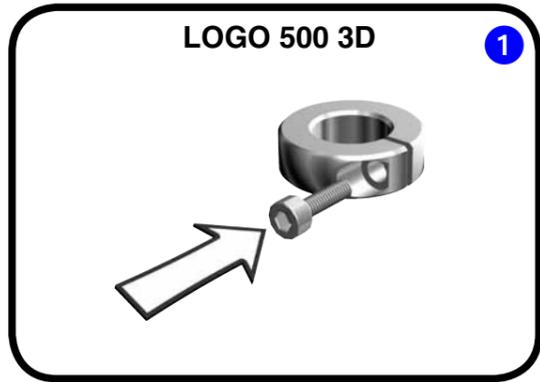
Bag 5 • Bag 6 • Bag 11

3



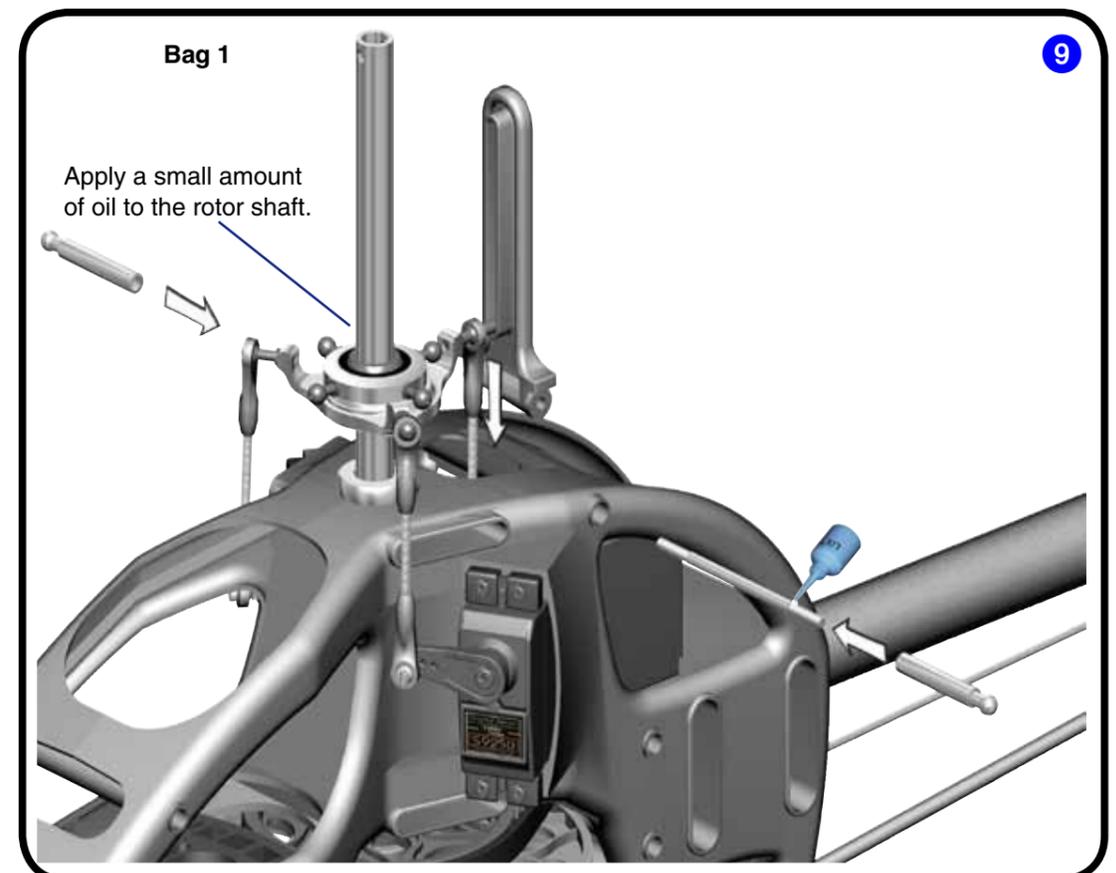
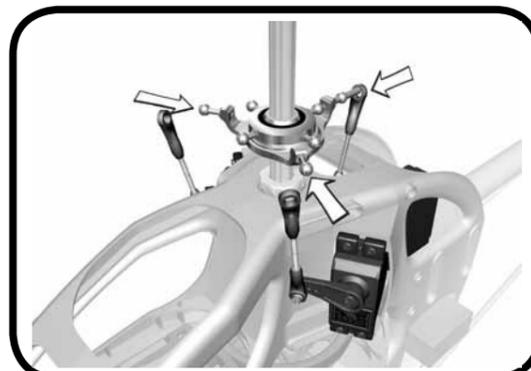
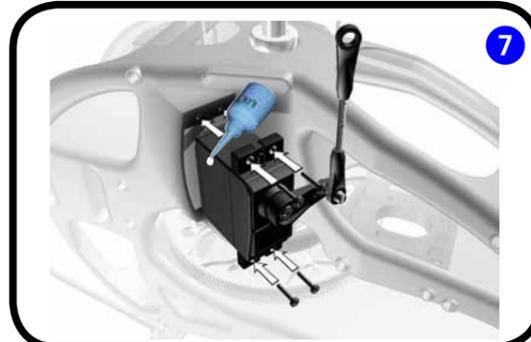
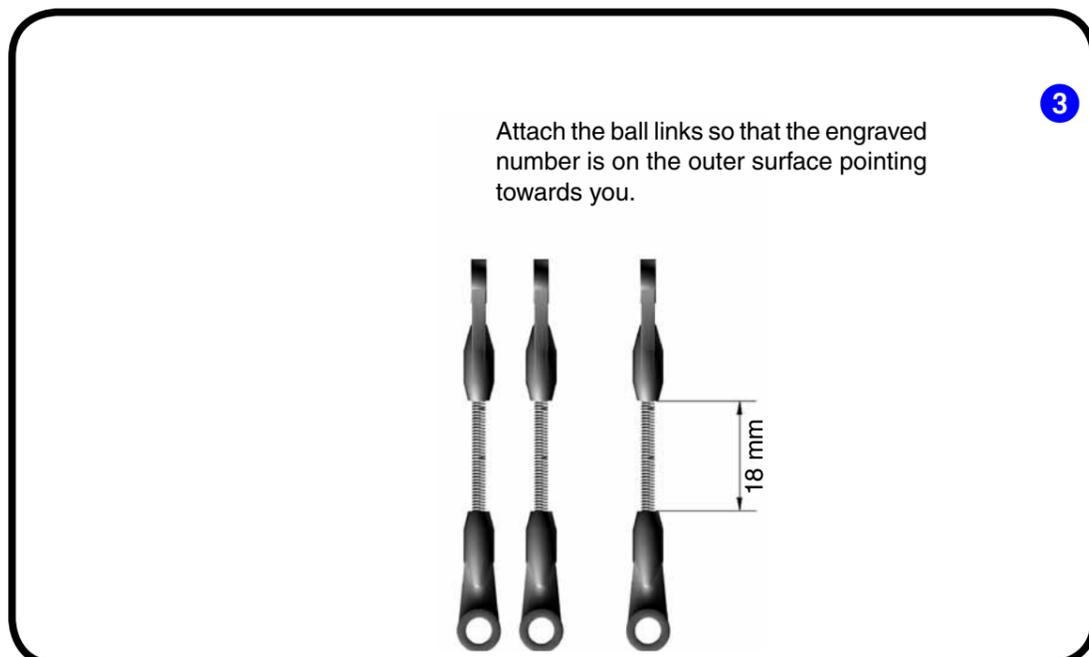
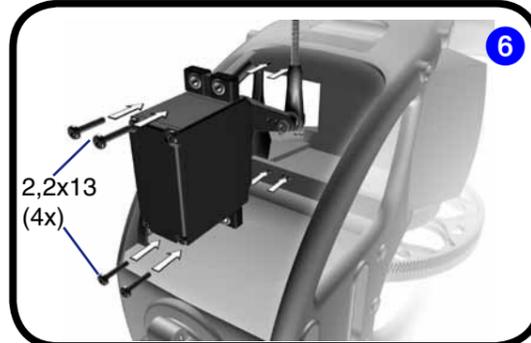
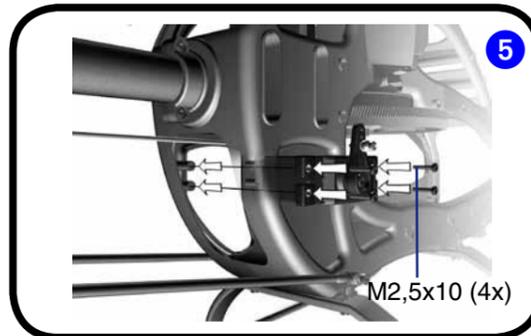
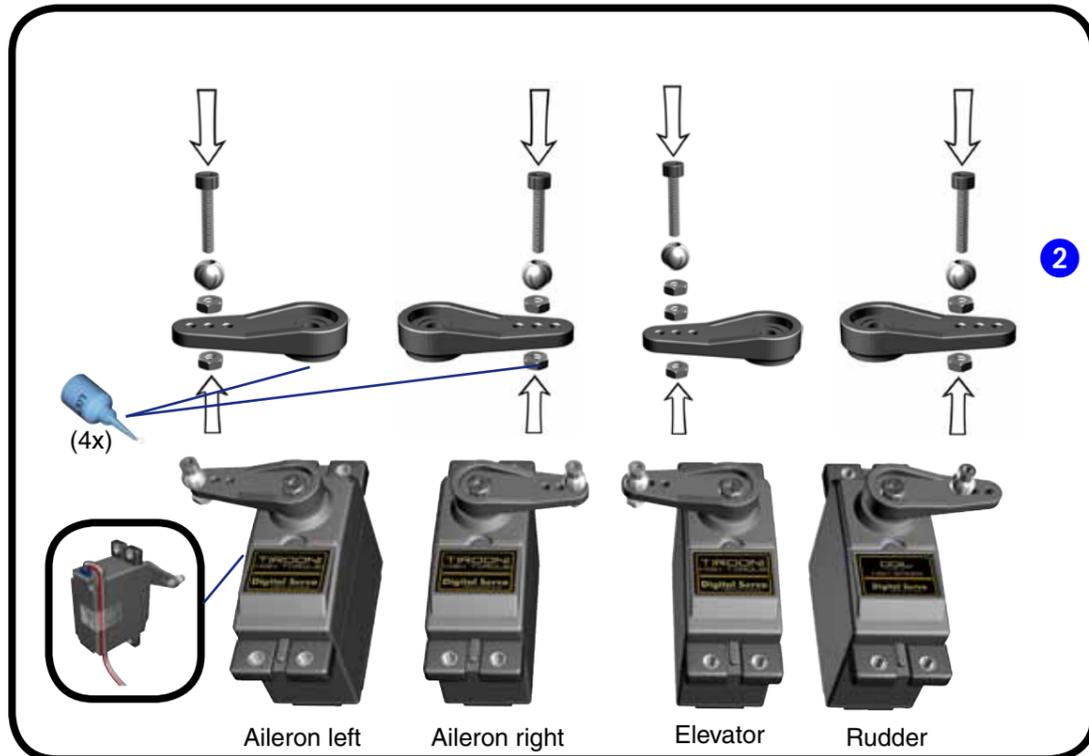
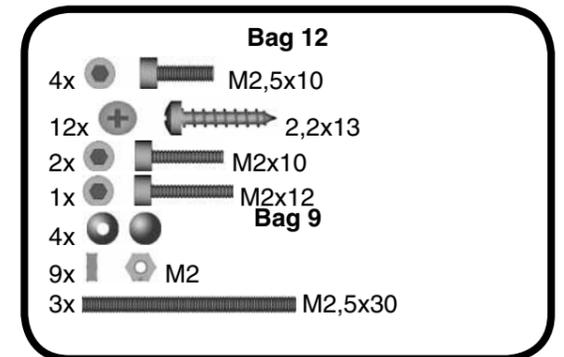
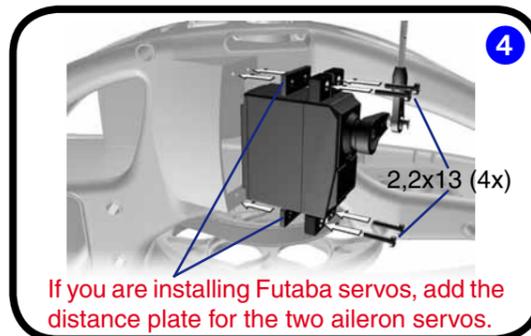
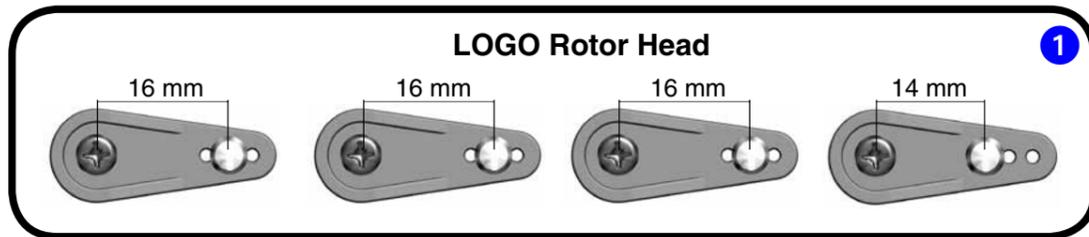
3 Main Gear & Tail Rotor Assembly

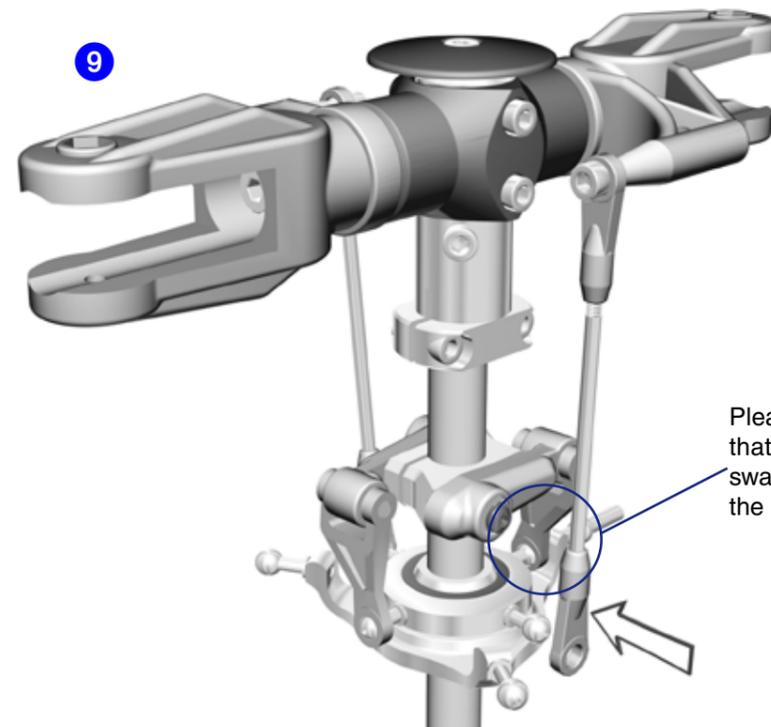
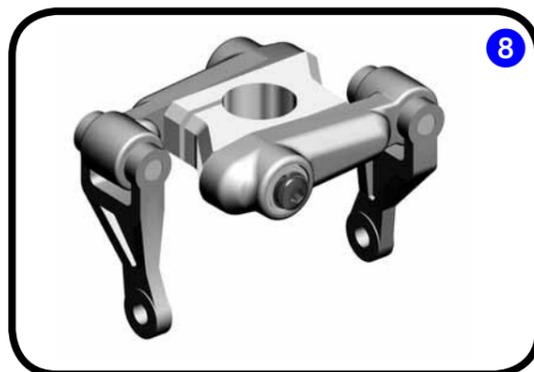
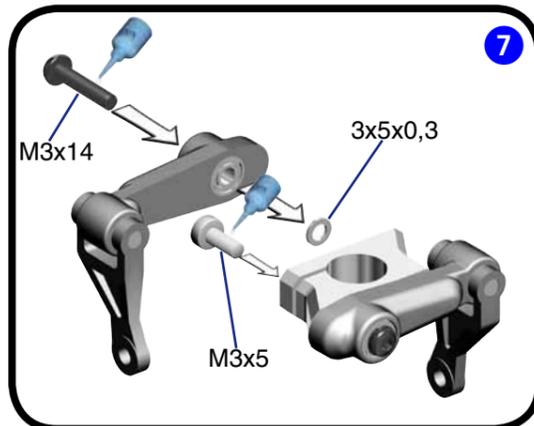
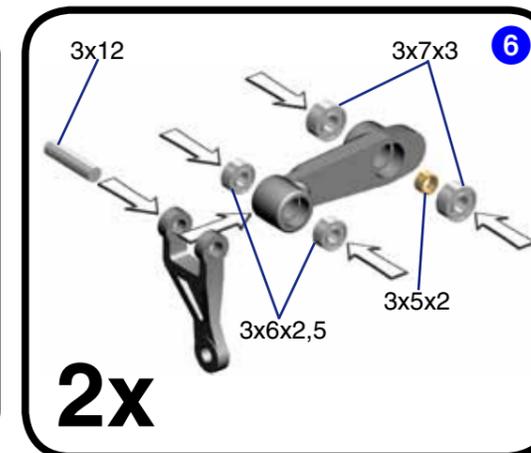
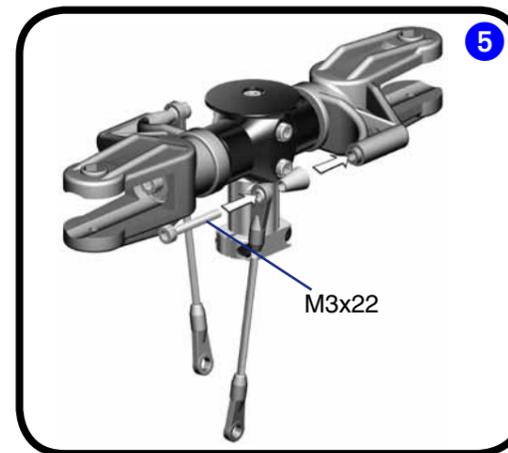
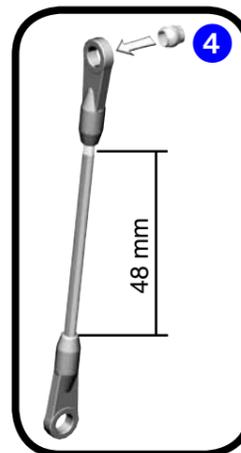
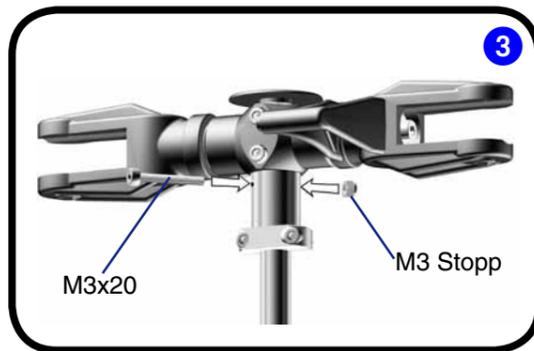
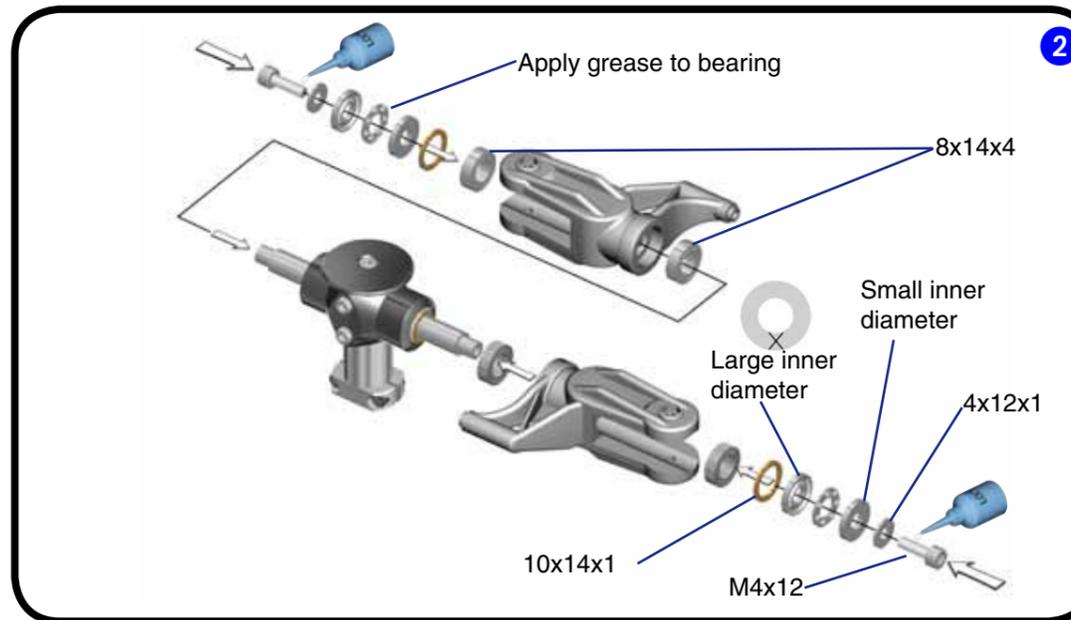
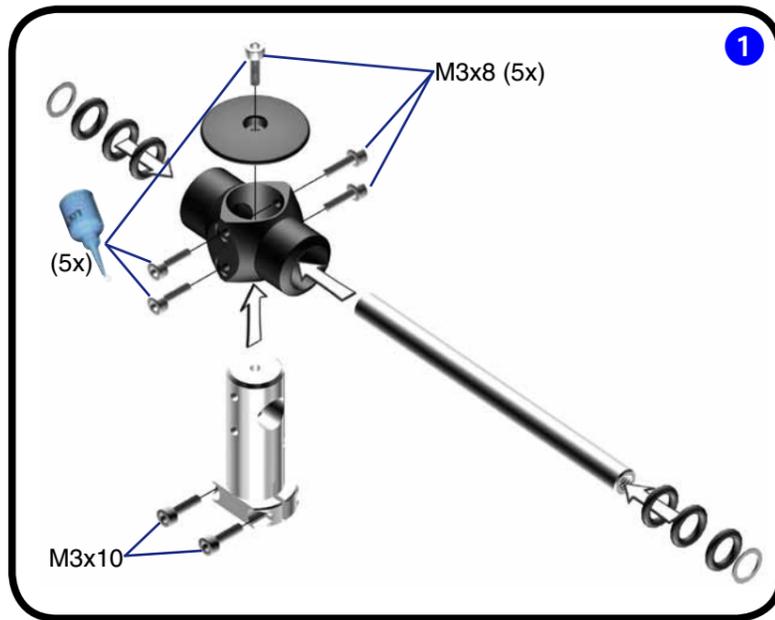
Bag 2 • Bag 3 • Bag 8



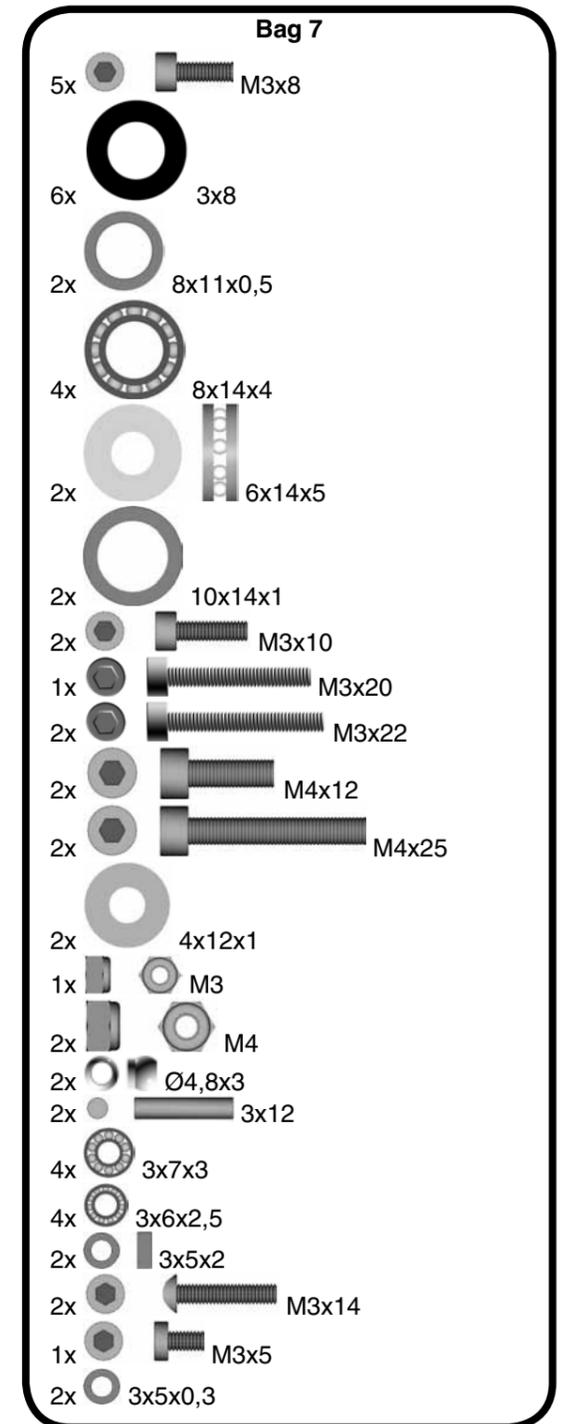
4 Servo Installation

Bag 1 • Bag 9 • Bag 12





Please adjust the swashplate driver in such a way that the balls on the inner and outer ring of the swashplate are positioned exactly on a line along the longitudinal axis of the heli.



6 Mounting the Motor

Bag 1 • Bag 12



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
Move the motor with the pinion until it is limited by the gear. Tighten one of the M4x14 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 M4x14 screw.

For very hard 3d flying a counterbearing should be installed.
#4134 (25 mm, 5 mm shaft)
#4148 (25 mm, 6 mm shaft)
#4373 (30 mm, 6 mm shaft)

available pinions for module 0.7 diameter 5 mm (not included in kit)	
12 teeth*	#4212
13 teeth	#4213
14 teeth	#4214
15 teeth	#4215
16 teeth	#4216
17 teeth	#4217
18 teeth	#4218
19 teeth	#4219
available pinions for module 0.7 diameter 6 mm (not included in kit)	
15 teeth	#4315
16 teeth	#4316
17 teeth	#4317
18 teeth	#4318

*for max. to 6S LiPo

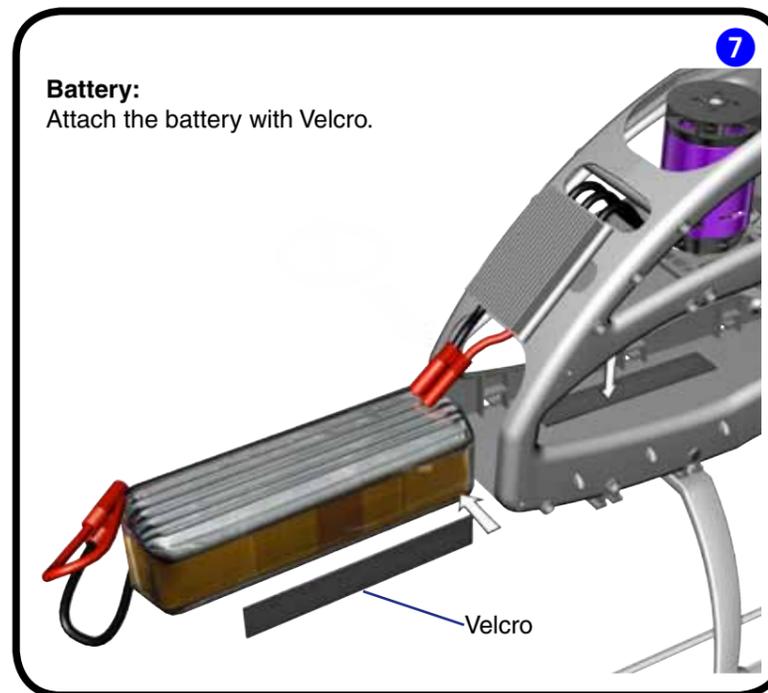
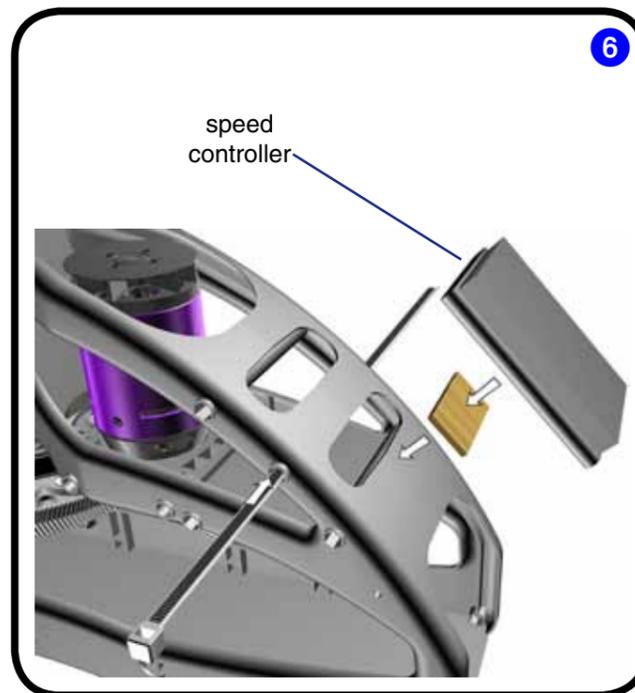
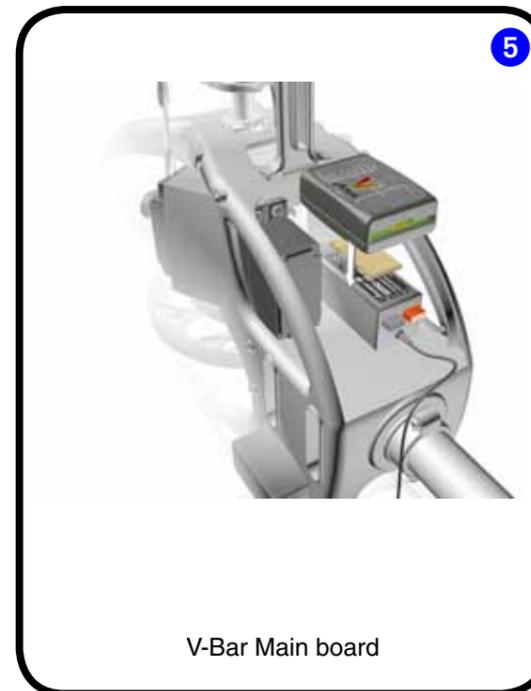
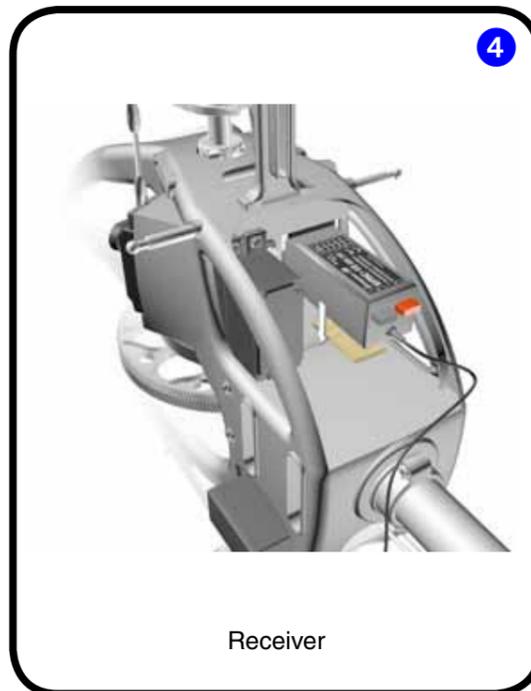
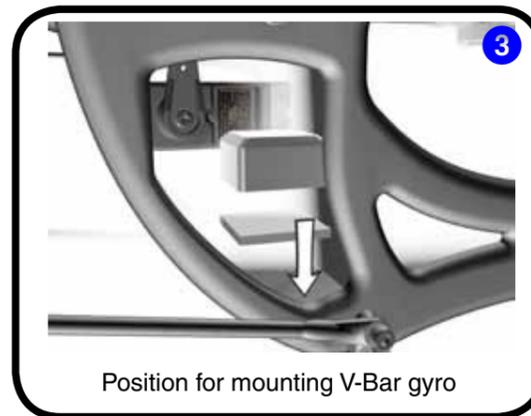
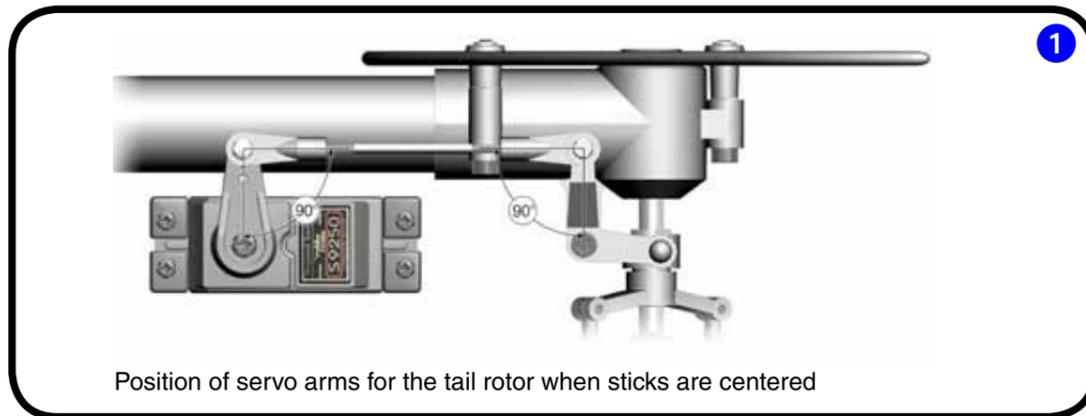
7 Mounting the Canopy

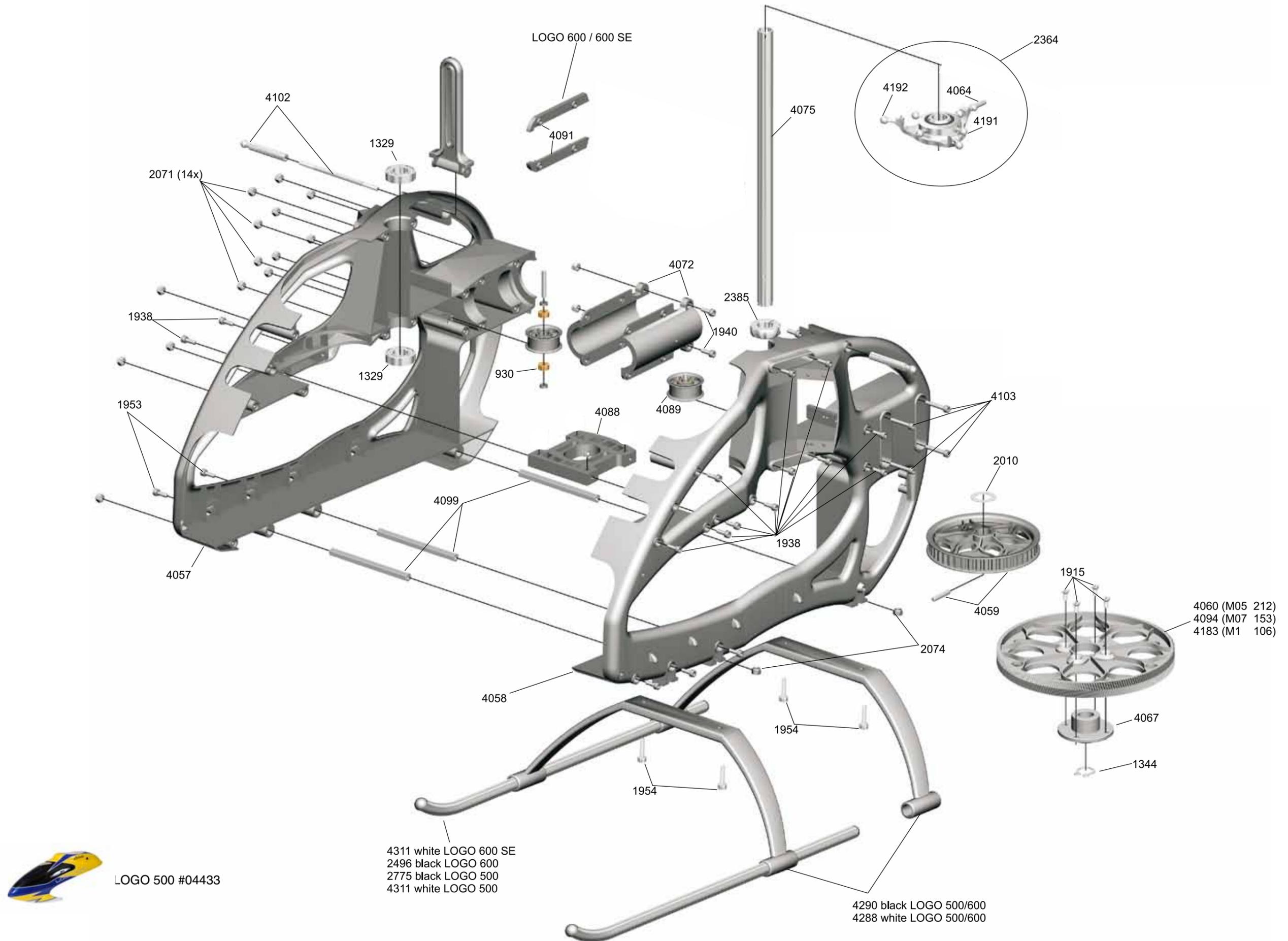
Bag 1 • Bag 12



Bag 1

Shorten cap





10 Overview Tail Rotor

