

Manual

LOGO 600 SE

Mikado
Model Helicopters

www.mikado-heli.de



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Max. rotorhead rpm LOGO SE 600: 1800
 Max. collective range: +/- 12°
 Max. Rotor blade size: 690 mm
 Max. LiPo Akku size: 10S 5000 mAh
 Max. LiPo Akku size: 12S 3300 mAh

LOGO 600 SE 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 600 SE.

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

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 liable 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.

Motor + Speed Controller (check the Mikado webpages for recommended motors)



V-Bar



Battery

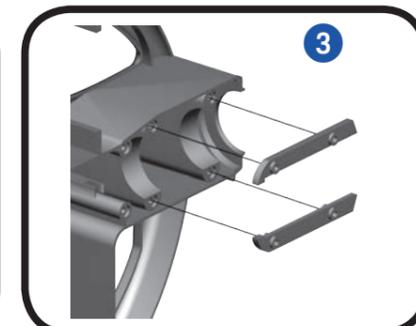
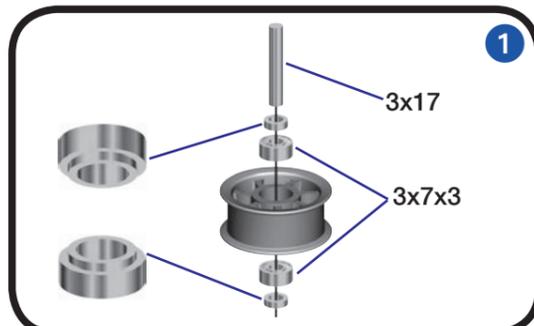


Radio with Heli-Software



1 Mainframe

Bag 1

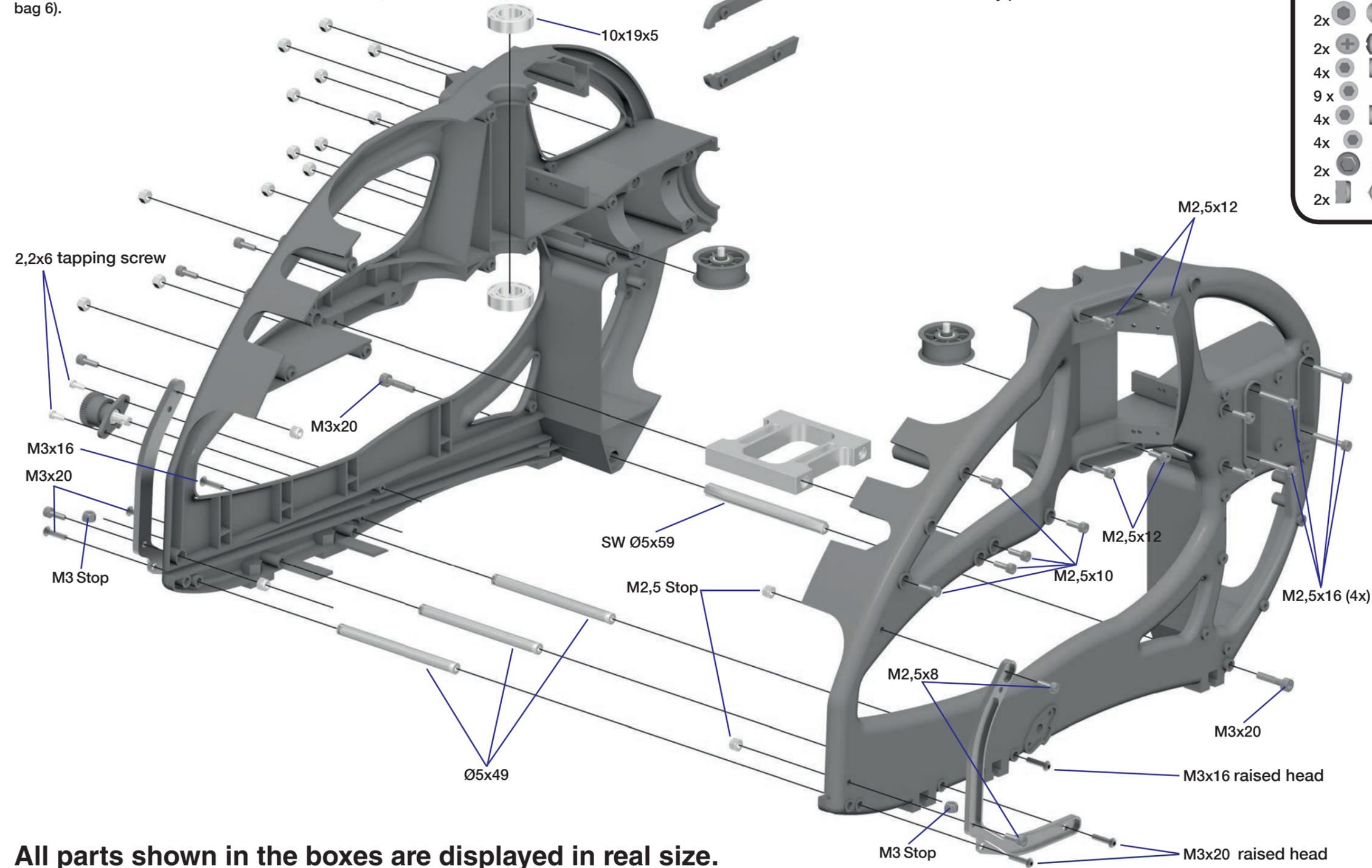


Before you combine the two sides of the main frame, attach the two belt tensioners (#4089, bag 6).

Using the rod M2.5x40 from bag 7, position all 14 nylon nuts in the right side frame.

After assembling the chassis, please move the battery plate in to the frame.

- Bag 1**
- 17x M2,5
 - 1x SW5x59
 - 3x 5x49
 - 2x 3x17
 - 4x 3x5x2,5
 - 4x M3x20
 - 2x M3x16
 - 2x 2,2x6
 - 4x M2,5x8
 - 9x M2,5x10
 - 4x M2,5x16
 - 4x M2,5x12
 - 2x M3x20
 - 2x M3



You should position the motor pinion on the motor shaft, before you mount the motor plate. You may also mount the motor pinion at a later stage, but the process will be more cumbersome. For reading on how to mount the motor pinion, please flip to page 9.

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

1 Beutel 5

6x8x0,5
5x8x3

1

larger inner Ø
smaller inner Ø
Apply grease on bearing

2

Apply Loctite only in the threaded section inside the tail rotor hub!

3

M3x16
M3 Stopp

4

M3x35 (5x)
M3x8
3x10x7
M2,5x6
5x13x4
5x7x2,3
3x8
M3 Stopp (5x)

Glue ball bearings using 5min. Epoxy

Bag 5 **1**

- 2x 6x8x0,5
- 2x M3x8
- 4x 5x8x3
- 2x M3x16
- 2x 4x8x3,5
- 2x M3
- 1x M3x3

Bag 5 **2**

M3x14
M2x8
3x5x5
3x6x2,5
3x5x0,5

Anti Static Kit

2

- 1x 3x5x5
- 1x M2x8
- 1x Kugel/ball/Rotule Ø4,8x2
- 1x 3x5x0,5
- 1x M3x14
- 2x 3x6x2,5

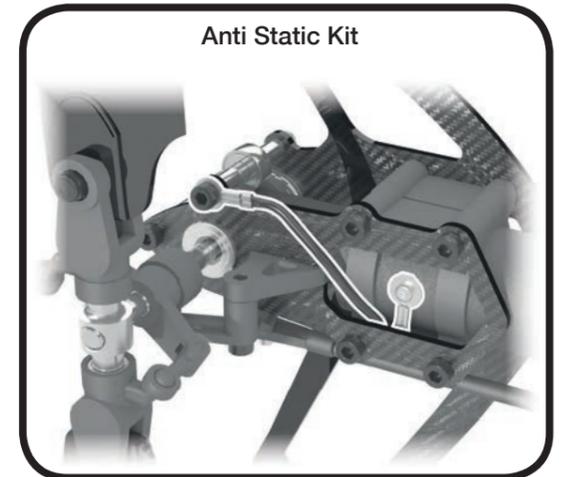
Bag 5 **3**

- 5x M3
- 1x M2,5x6
- 1x 5x27
- 2x M3x8
- 5x M3x35
- 2x 3x5x10
- 1x 3x10x7
- 2x 5x13x4
- 2x 5x7x2,3

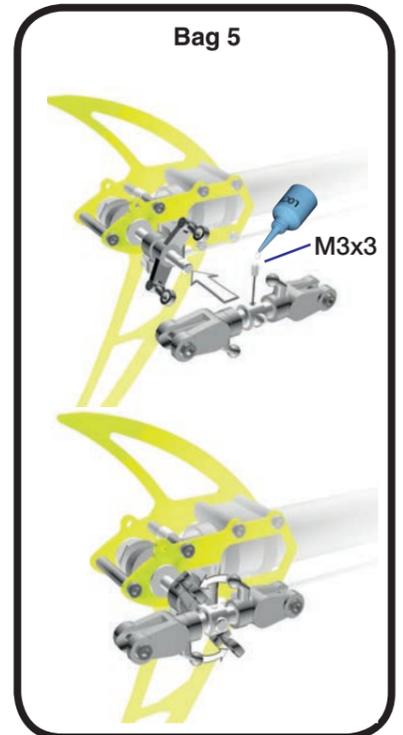
Bag 6

- 2x M3
- 1x M2x6
- 1x M2 Stop
- 4x Kugel/ball/Rotule Ø6x3
- 2x M3x
- 2x 3mm
- 2x
- 4x

Anti Static Kit

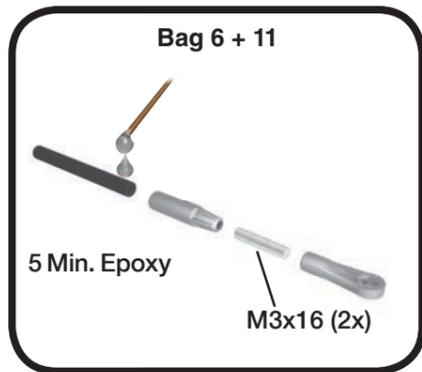


Bag 5



M3x3

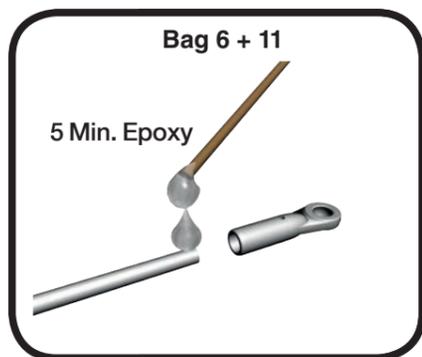
Bag 6 + 11



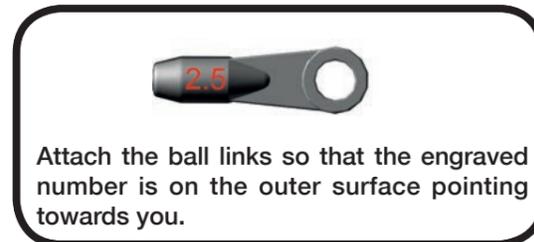
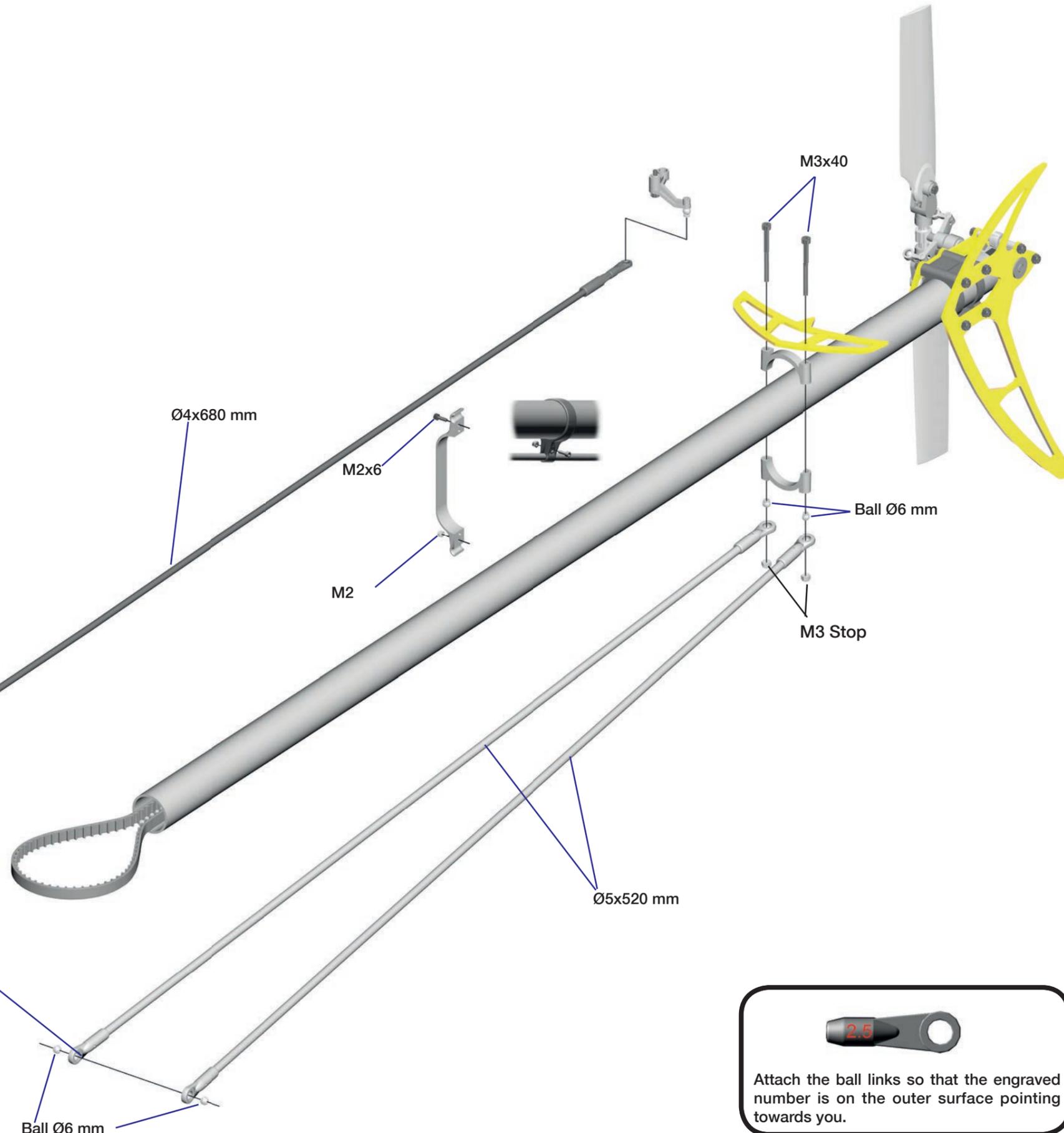
5 Min. Epoxy

M3x16 (2x)

Bag 6 + 11



5 Min. Epoxy

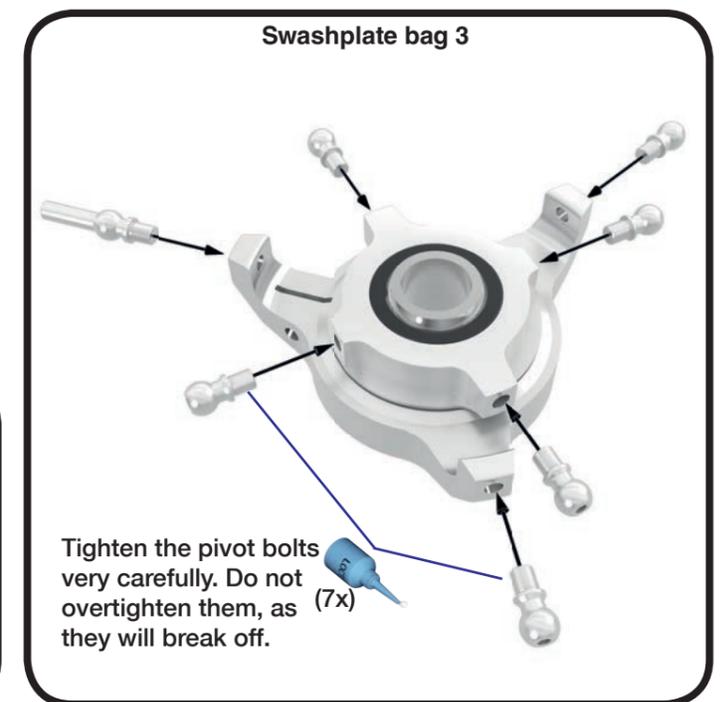
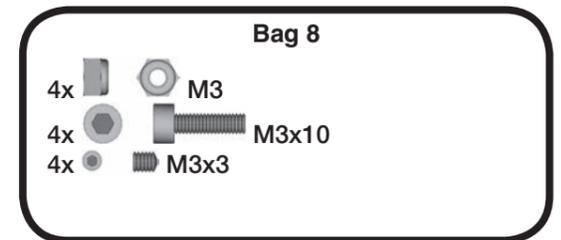
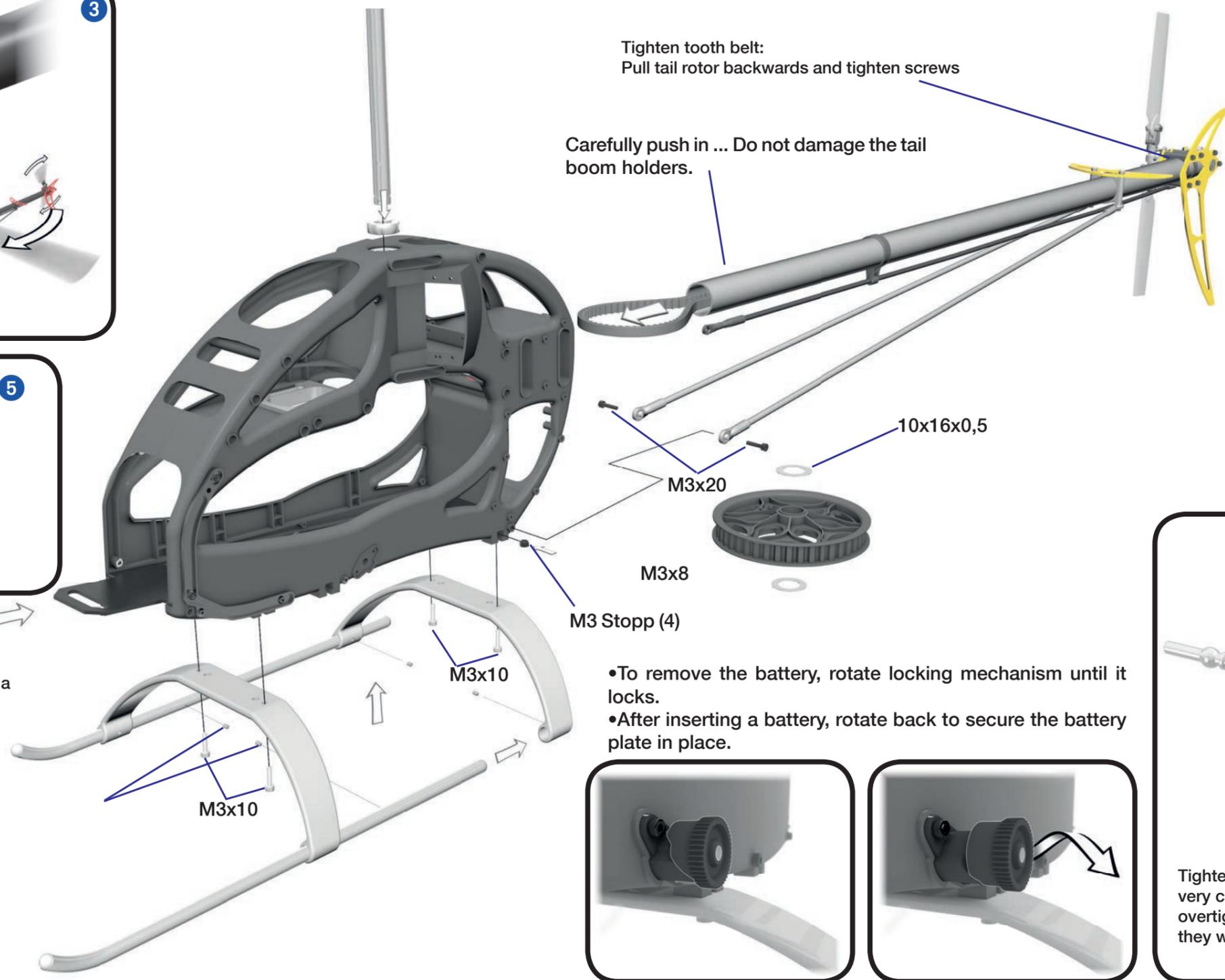
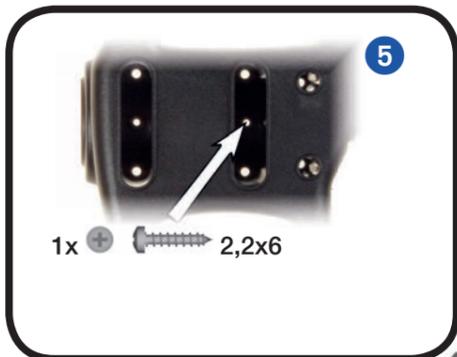
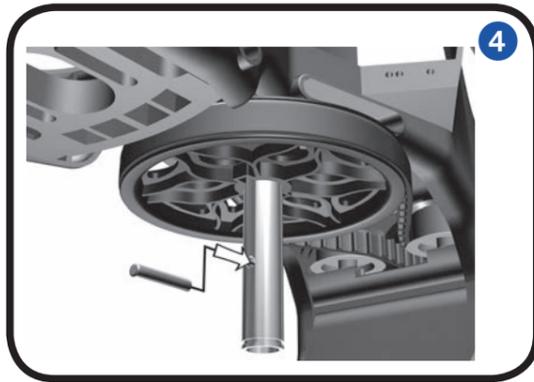
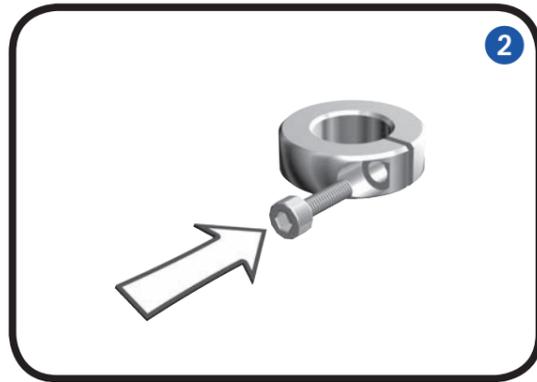


2.5

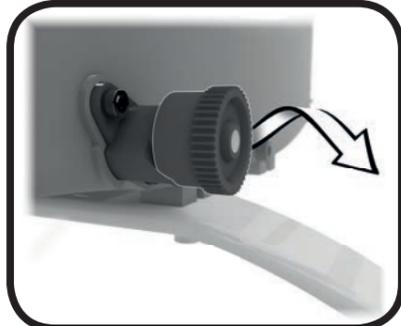
Attach the ball links so that the engraved number is on the outer surface pointing towards you.

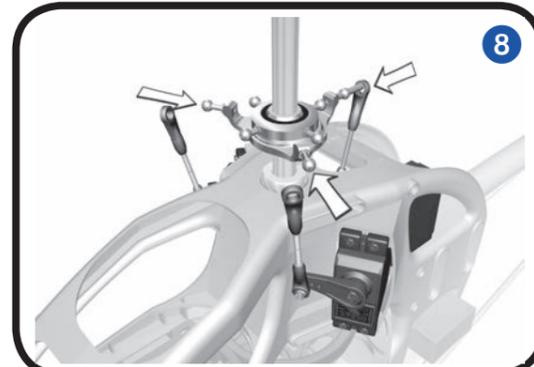
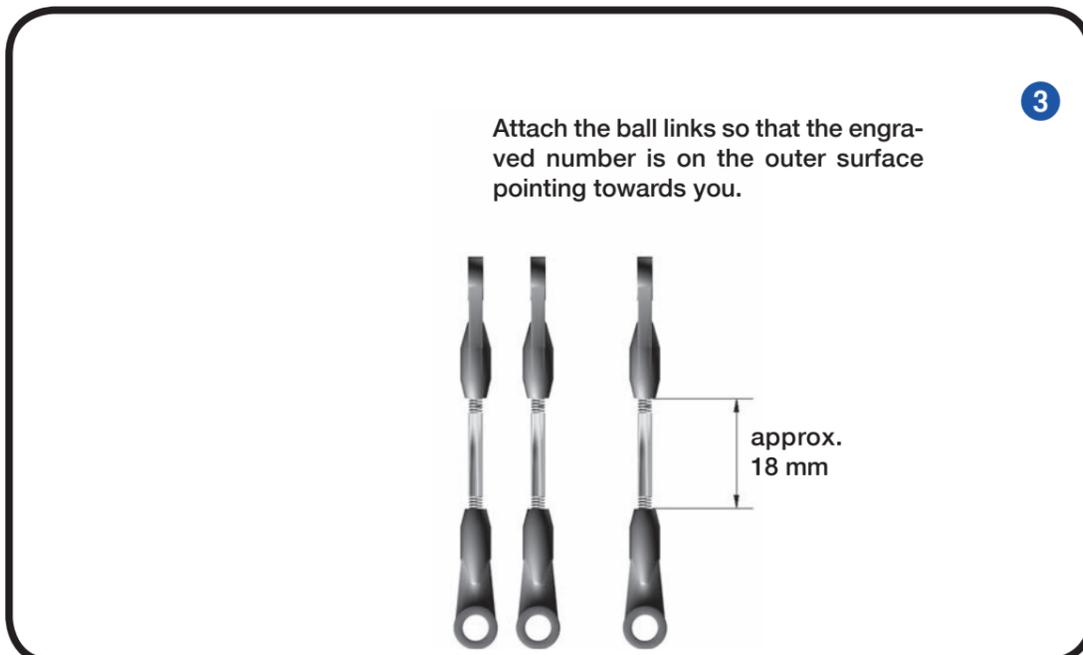
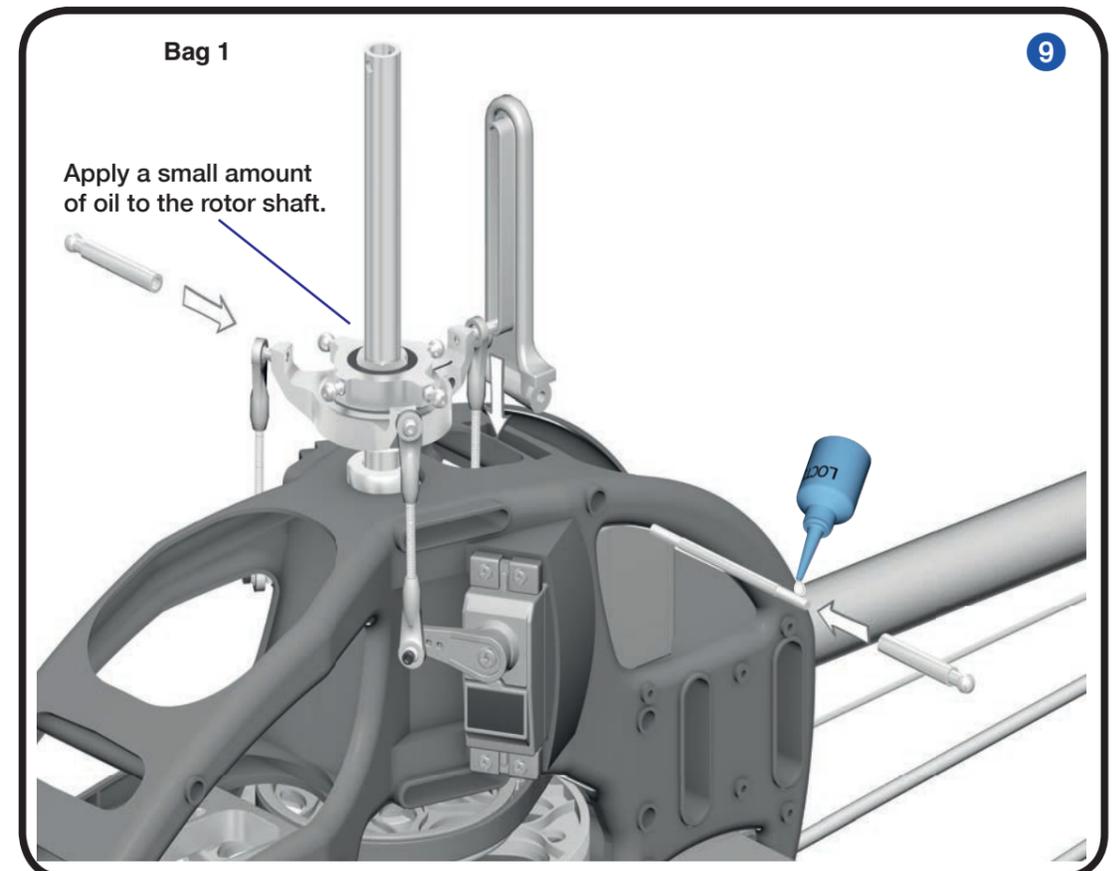
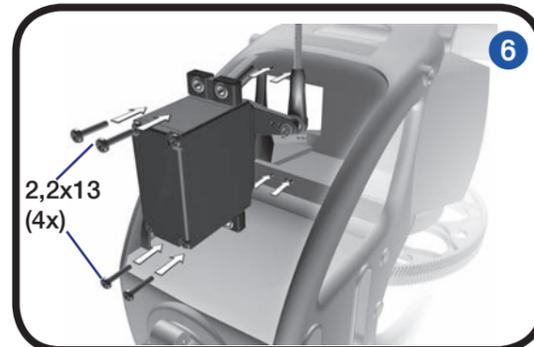
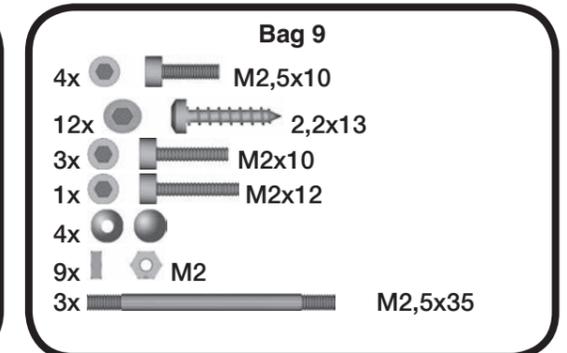
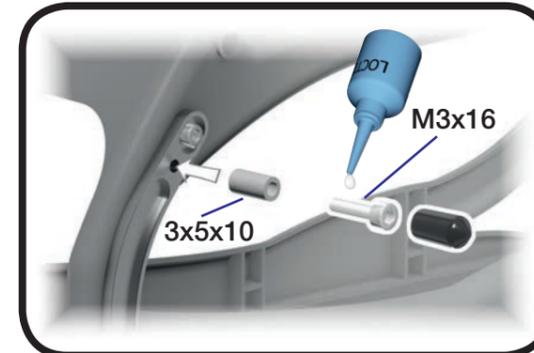
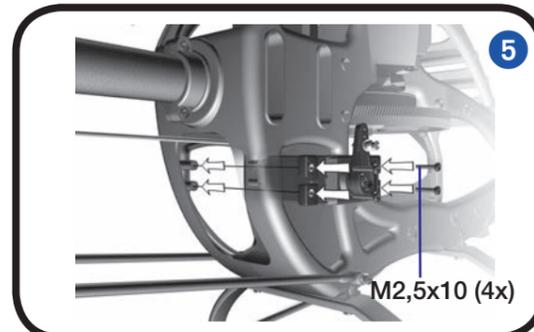
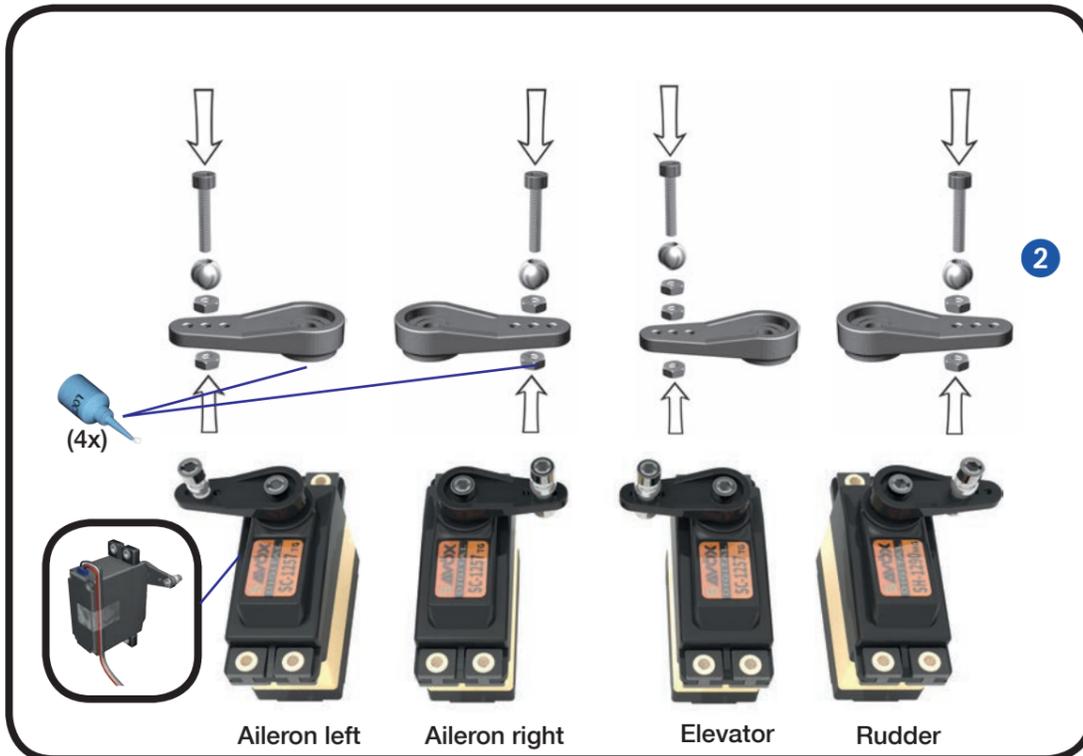
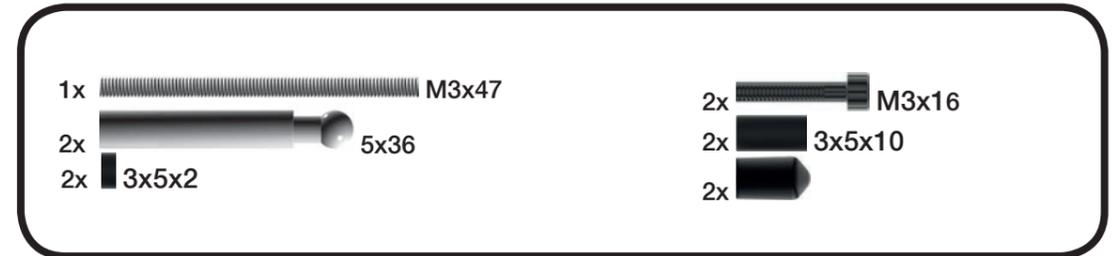
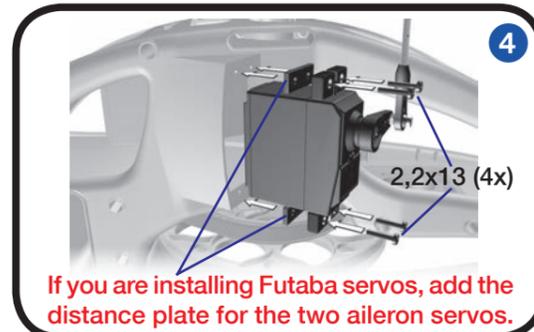
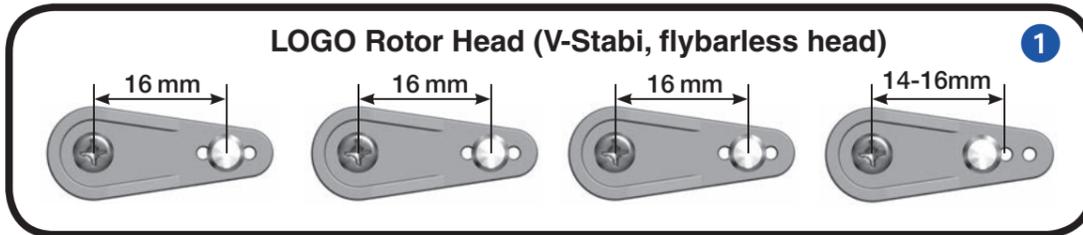
4 Main Gear & Tail Boom Assembly

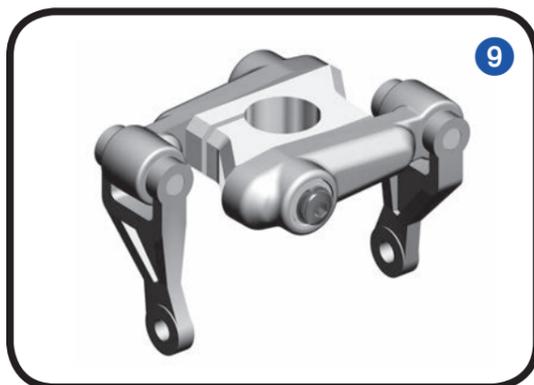
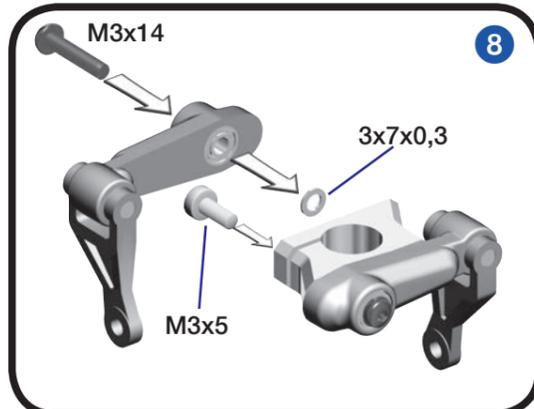
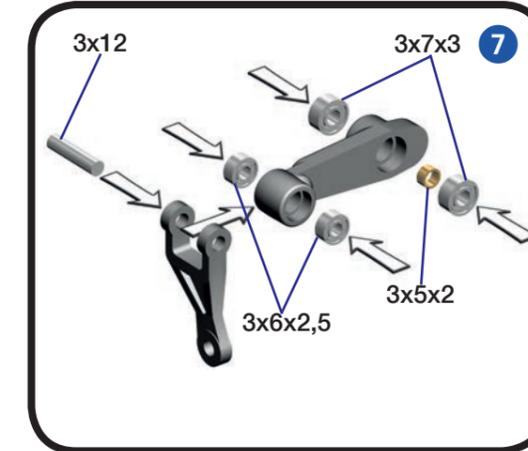
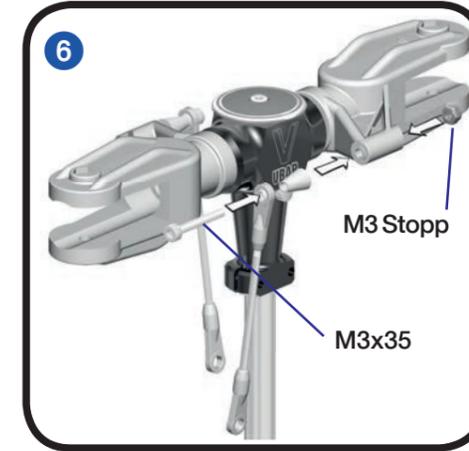
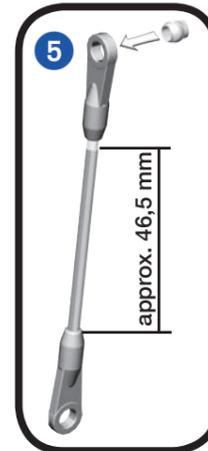
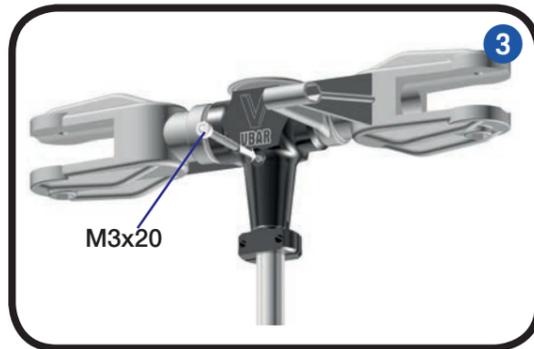
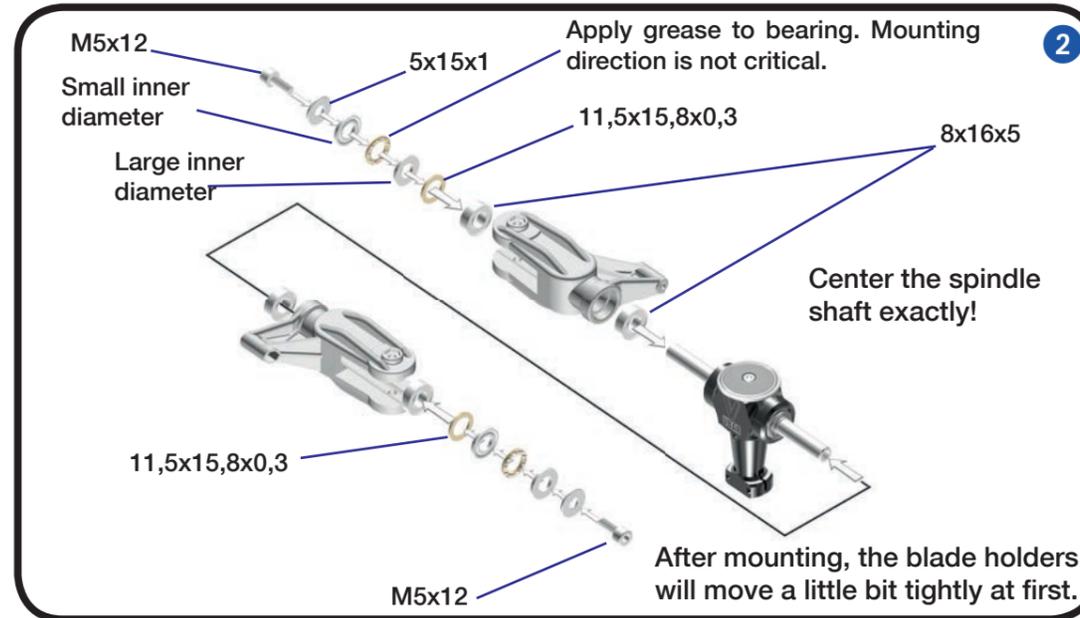
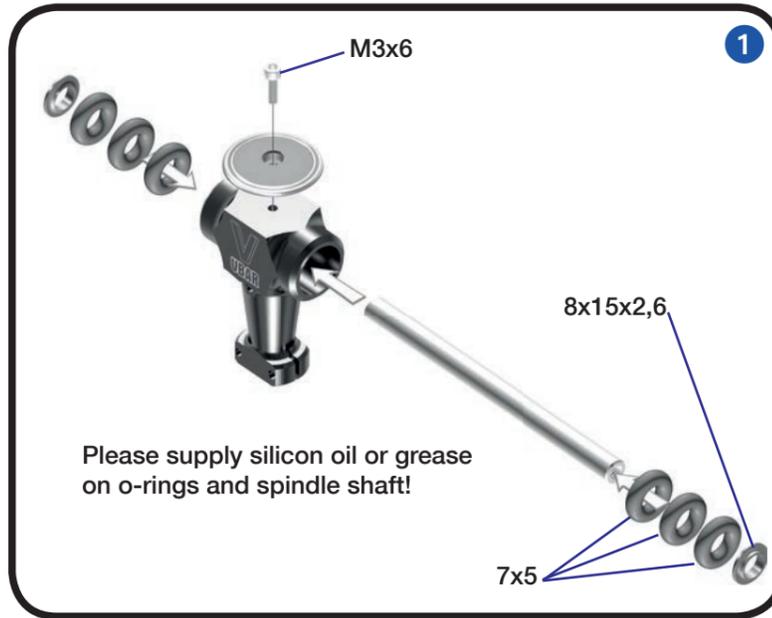
Bag 2 • Bag 3 • Bag 8



- To remove the battery, rotate locking mechanism until it locks.
- After inserting a battery, rotate back to secure the battery plate in place.





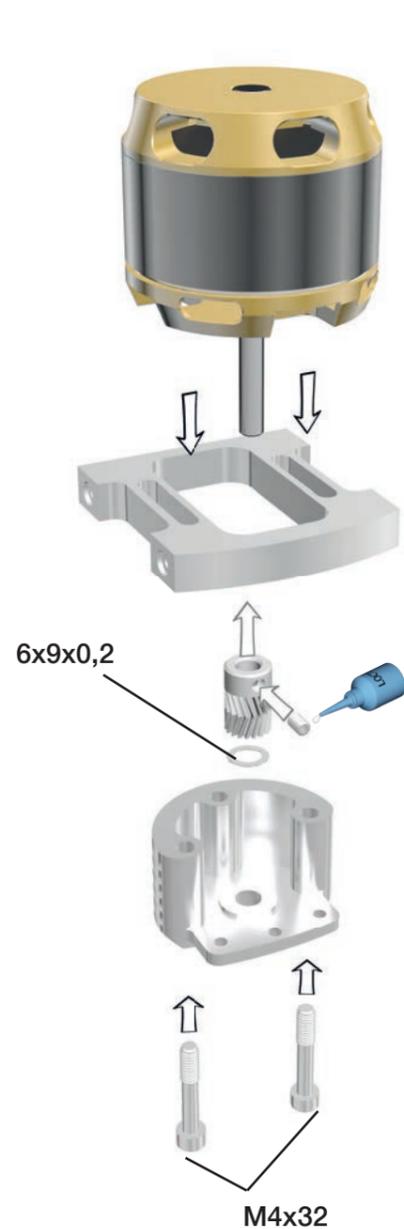


- Bag 7**
- 1x M3x6
 - 2x
 - 6x 7x5 O-Ring
 - 2x 8x15x2,6
 - 4x 8x16x5
 - 2x 8x16x5
 - 4x 11,5x15,8x0,3
 - 1x M3x20
 - 2x M3x35
 - 2x M5x12
 - 2x M4x35
 - 2x 5x15x1
 - 2x M3 Stop
 - 2x M4 Stop
 - 2x Ø4,8x3
 - 2x 3x12
 - 4x 3x7x3
 - 4x 3x6x2,5
 - 2x 3x5x2
 - 2x 3x5x0,3
 - 2x M3x14
 - 1x M3x5
 - 2x M2,5x60
 - 4x
 - 2x M3x12

7 Mounting the Motor

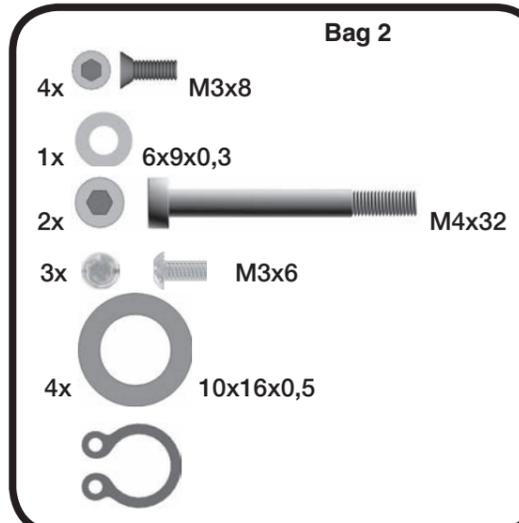
Bag 1

For mounting the new motor counterbearing with rotorshaft support, please follow these steps: First, mount the main gear, the rotor shaft assembly and all shims. Secure assembly with the 10 mm c-clip (Picture 2). The main gear will have 0.5 mm axial play. This is normal and will facilitate 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 counterbearing, using the three M3x6 screws.

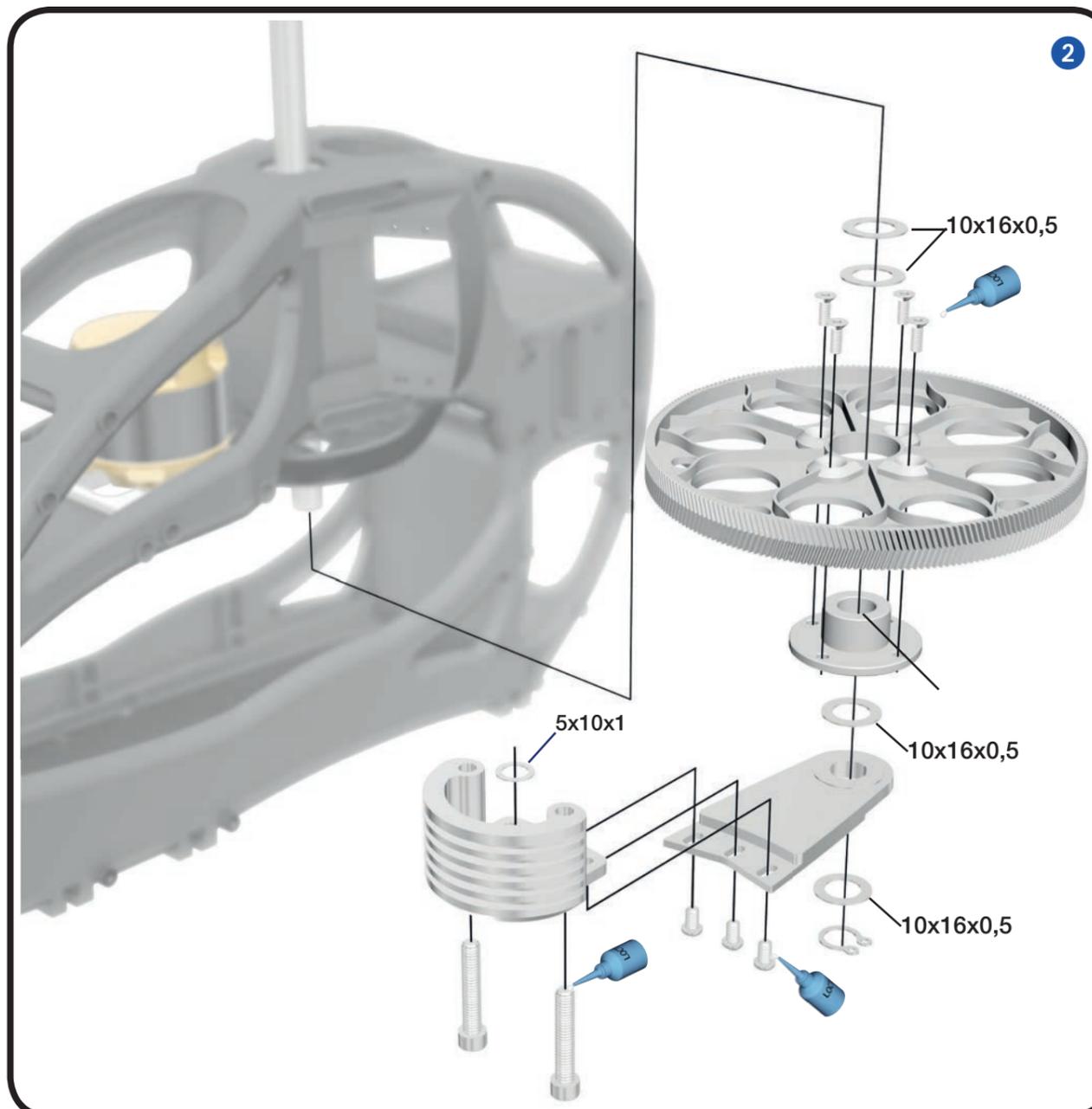


1

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 (6.9x0.2) inbetween. Also make sure that the M4 set screw sits on the flattened area of the motor shaft.



Bag 2



2

8 Mounting the Canopy

Bag 1,2



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 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.

To protect the canopy at the front, where it meets the landing bow, you can mount edge protector. You will have to enlarge the existing cutouts accordingly. Adjust in a number of iterations, until the canopy fits properly when attached to the rear canopy mounts. Then, fix the edge protector using epoxy resin or superglue.



