

Manual

LOGO 700



Mikado
Model Helicopters

Mikado Model Helicopters GmbH • Graf-von-Schwerin-Str.40 • 14469 Potsdam • Germany
phone +49 (0)331 23749-0 • fax +49 (0)331 23749-11 • www.mikado-heli.de
© Mikado Model Helicopters GmbH 2026, V1.0133

Index

Safety Instructions Tools for Assembly Specifications	2
1 Chassis	3
1 Chassis and Landing Gear	5
2 Tail Rotor	7
3 Torque Tube	8
4 Tail Boom Mounting	9
5 Servo Mounting	14
6 Main Gear	15
7 Motor Installation	16
8 Tail Boom Brace	17
9 Swashplate	18
10 Rotor Head	19
11 Rotor Head Linkage	20
12 Install Anti Static Kit	21
13 Wiring RC Components	21
14 Mounting ESC and Battery	22
15 Canopy and Overview	23
16 Overview Spare Parts Mainframe	24
17 Overview Spare Parts Tail Boom	27
18 Overview Spare Parts Tail Rotor	28
19 Overview Spare Parts Rotor Head	29

Thank you

for choosing the Mikado LOGO 700. Before assembly, read and understand this manual completely and follow all instructions exactly. If any instructions are unclear, contact Mikado via the LOGO-Forum (www.vstabi.info) or support hotline by e-mail or phone. Do not operate or fly the helicopter unless you are fully confident with the assembly and setup.

This helicopter is not suitable for beginners. Prior experience with assembling and operating R/C complex helicopters (e.g., LOGO 400–600) is required, and all safety instructions must be observed.

Use Thread Lock everywhere!

LOGO 700 comes partially pre-assembled, but screws and bolts are not secured with thread lock. You must secure all metal-to-metal bolted joints with Loctite 243 (blue), following the manufacturer’s instructions and curing time.

Safety Instructions

RC Helicopters are not toys and can cause severe injury or damage if misused. Inappropriate operation can result in injury or death. Users must have the necessary knowledge and skill to operate this model. The manufacturer and reseller assume no liability. You are responsible for any damage or injury caused. Test and understand your radio components before flying. Ensure adequate power supply and fully charged batteries, and avoid interference from other RC devices. If the helicopter behaves unusually, land immediately and resolve the problem before continuing.

General Advice

Clean all metal-to-metal bolt joints with an industrial or brake cleaner before assembly. Remember: use Loctite on all metal-to-metal bolted joints

Additional Precautions

Before powering the helicopter, make sure every time that all bolts and hardware are secure. Regularly inspect the model and replace worn parts. Use only original Mikado parts and recommended electronics. Keep at least 10 meters from the spinning rotor head. Do not touch hot components like the ESC or motor until they cool.

Before Powering On

Operate the helicopter only outdoors, in designated areas for large RC models. Maintain a safe distance from people and animals. When making adjustments, keep 10 meters away and never fly alone—bring someone who can assist in an emergency.

Do not operate:

- * When children or crowds are present
- * Near residential or park areas
- * Indoors or in confined spaces
- * In adverse weather (rain, snow, hail, strong wind)
- * Near trees or power lines

Technical Specifications

- * Maximum rotor head RPM: 2,100 1/min
- * Maximum pitch travel: ±12°
- * Rotor blade length: 690 – 717 mm
- * LiPo battery: 8S 5,000 – 12S 6,000 mAh
- * Ambient temperature: 5°C – 35°C

Exceeding these parameters may lead to overload, damage, crashes or injury.

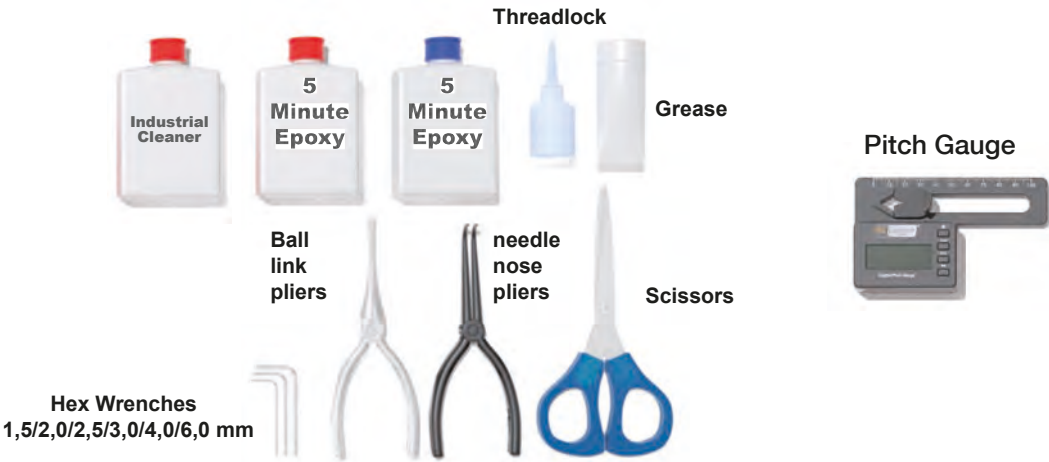
Do overspeed maneuvers only at your own risk. They can lead to part failures, crashes, and subsequently to massive damage or serious injury.

By experience, boom strikes are caused by setup errors or piloting errors and do not constitute a reason for warranty claims.

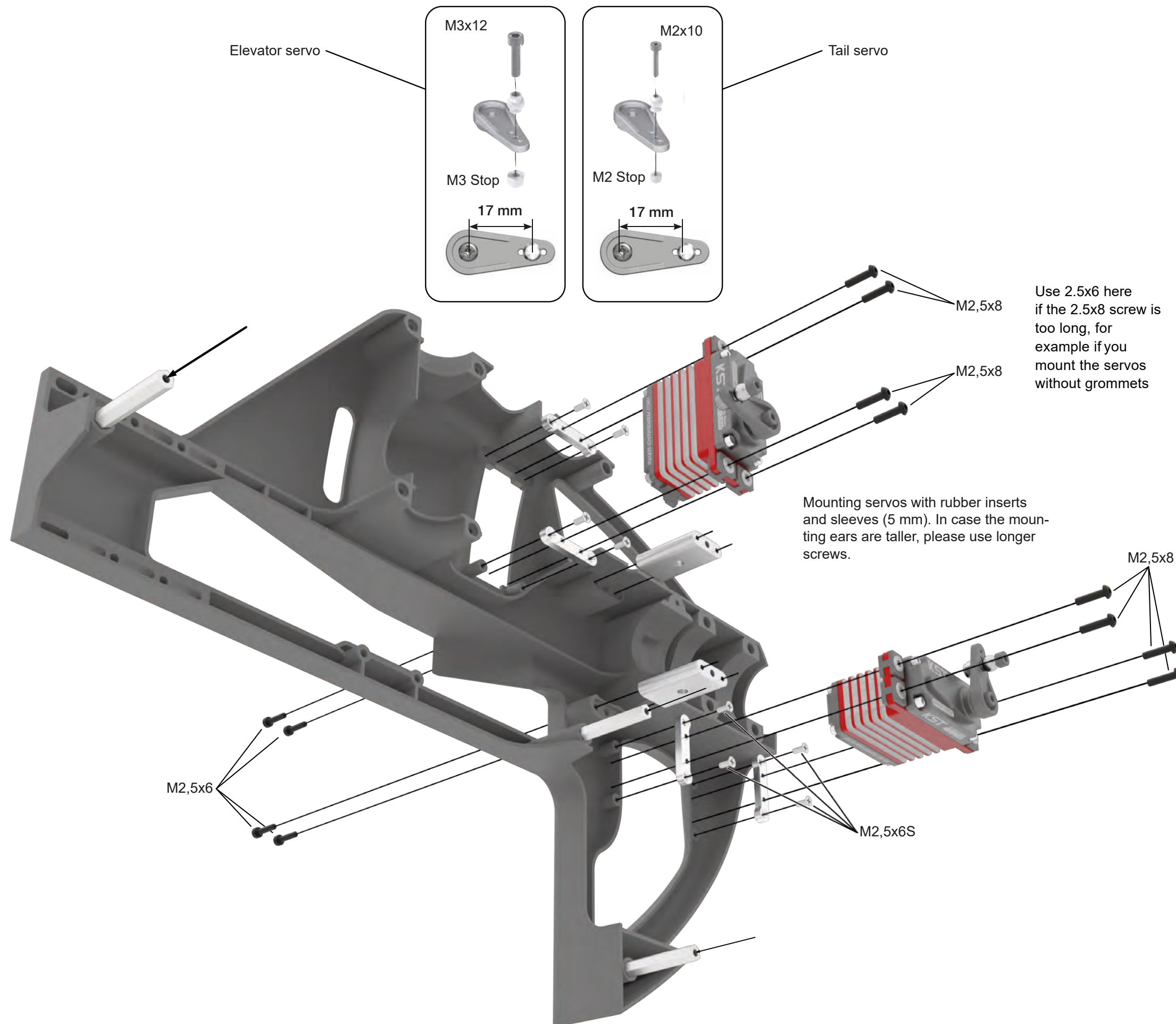
Less rigid rotor blades (reference: VTX!) increase the risk of boom strikes.

Overall gains set too high or too low can cause resonances under certain circumstances, and thus facilitate boom strikes. Avoid simultaneous inputs of full negative collective and full elevator backwards! In case the headspeed drops significantly under load, the system will react sluggishly, and the necessarily high servo outputs from the VBar (Flight Control) also increase the risk of boom strikes.

Before the first flight, test the motor, ESC, and VBar without main or tail rotor blades. Refer to their respective manuals. Fly moderately at first to get accustomed to the helicopter size. Check for loose components or unexpected wear between the first flights. Keep a safe distance and altitude to allow room for emergency maneuvers such as autorotation.



1 Chassis



Use 2.5x6 here if the 2.5x8 screw is too long, for example if you mount the servos without grommets

Mounting servos with rubber inserts and sleeves (5 mm). In case the mounting ears are taller, please use longer screws.

Bag 1+3

8x		M2,5x6S
4x		M2,5x6
8x		M2,5x8
1x		M3x12
1x		M2x10
1x		M3
1x		M2
1x		Ø6
1x		Ø4,8
2x		M2,5
3x		5,5x59

1 Chassis

1

M2,5 Stop

Place the ball bearings first,
after that tighten the M2.5x10
screws.

Bag 1

- | | | |
|----|---|---------|
| 4x |  | M2,5x6 |
| 4x |  | M2,5x10 |
| 4x |  | M2,5x12 |
| 8x |  | M2,5 |
| 2x |  | 14x21x6 |
| 1x |  | 2,5x60 |
- Use this threaded rod to pull the 2,5
nuts into the right half of the chassis.

M2,5x6

M2,5x10

2

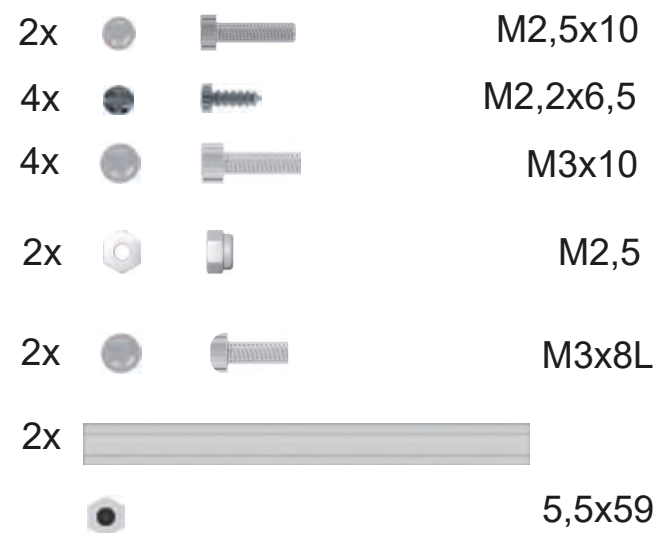
4x M2,5 Stop

Do not fully tighten these screws
yet. They will be tightened at a
later stage.

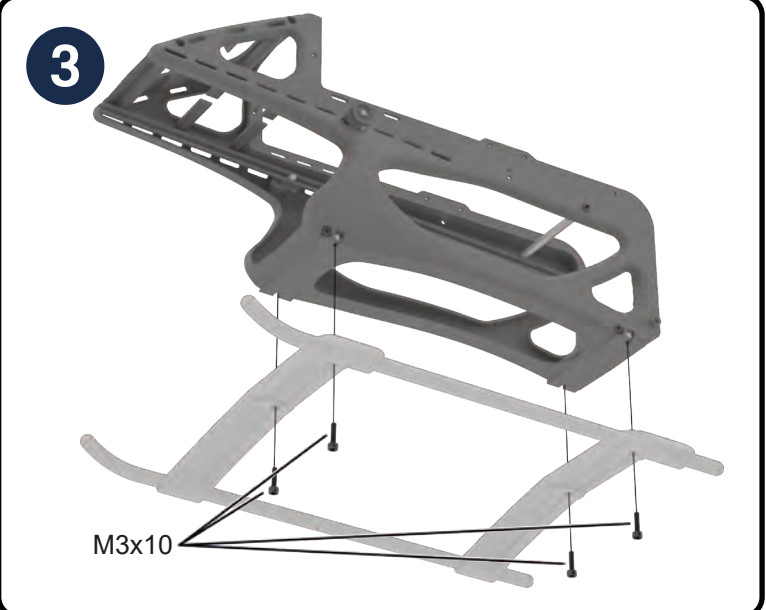
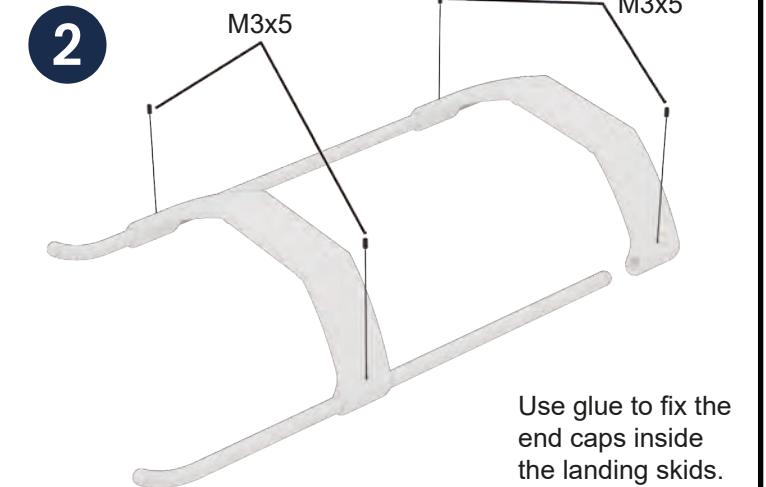
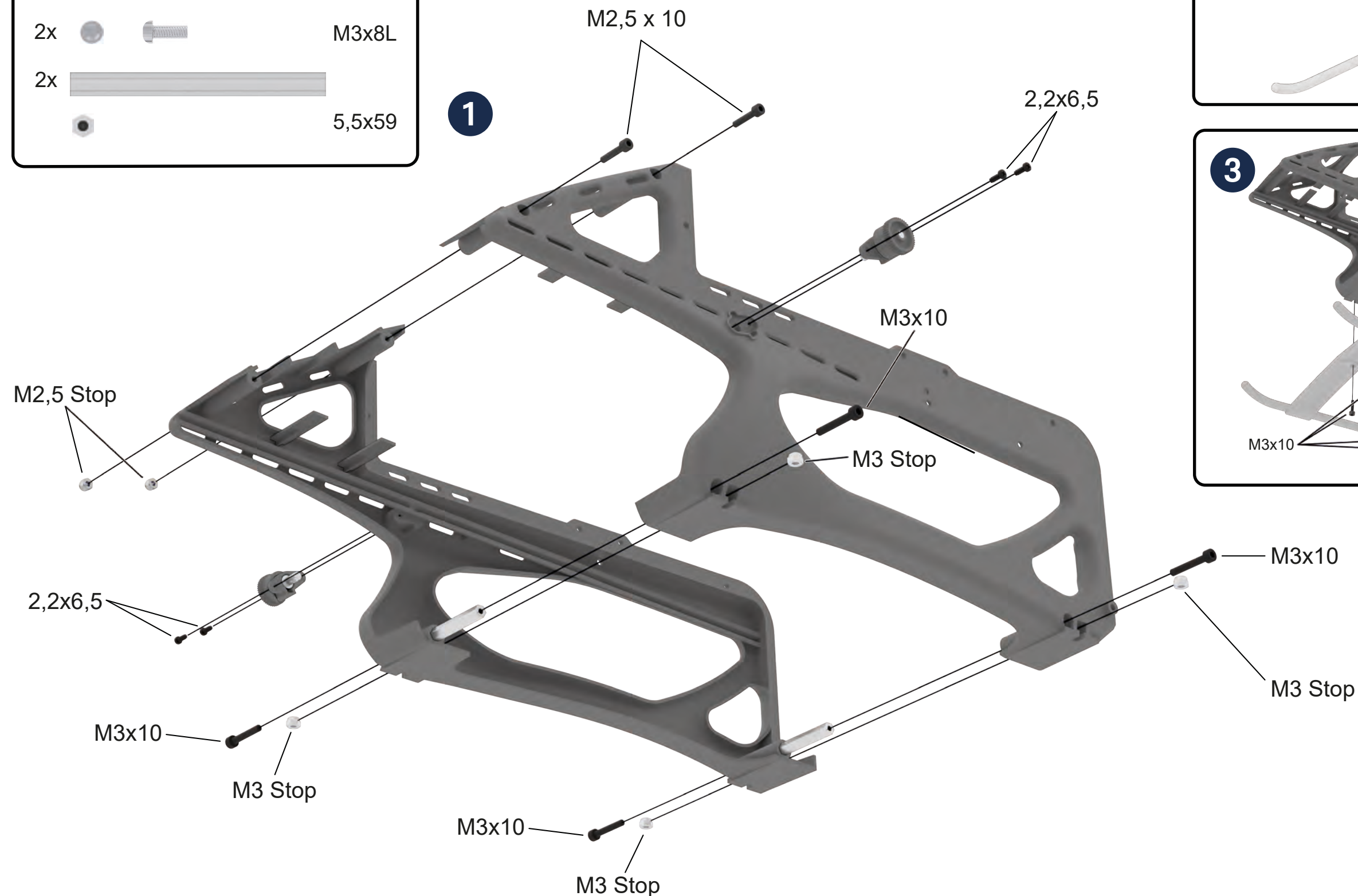
M2,5x12

1 Chassis and Landing Gear

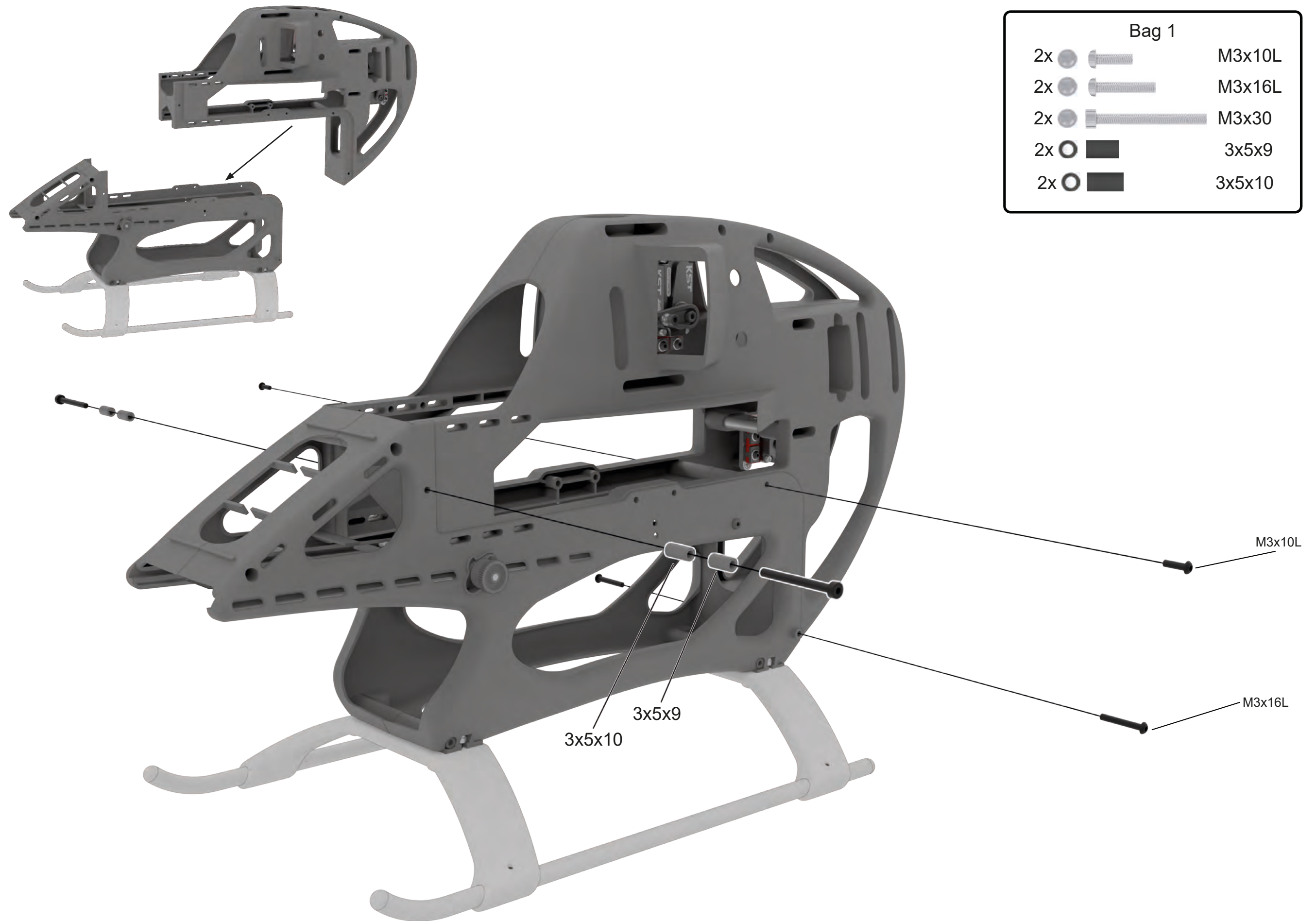
Bag 1+5



Bag 5



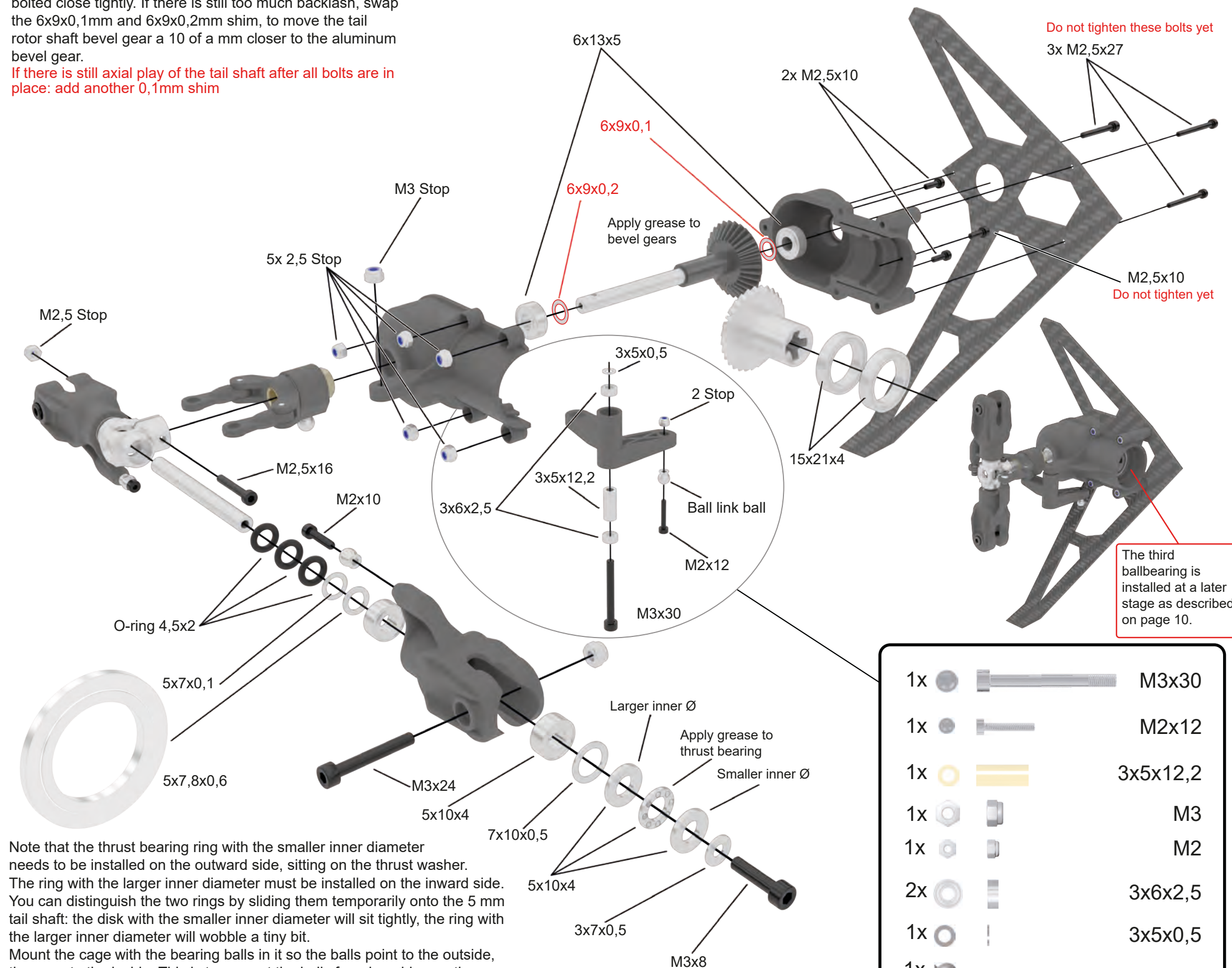
1 Chassis



2 Tail Rotor

Tail gear mesh: adjust the gear mesh **before** applying grease. Start by using the shown shim layout. Allow only for a small amount of backlash with the tail rotor housing bolted close tightly. If there is still too much backlash, swap the 6x9x0,1mm and 6x9x0,2mm shim, to move the tail rotor shaft bevel gear a 10 of a mm closer to the aluminum bevel gear.

If there is still axial play of the tail shaft after all bolts are in place: add another 0,1mm shim



Note that the thrust bearing ring with the smaller inner diameter needs to be installed on the outward side, sitting on the thrust washer. The ring with the larger inner diameter must be installed on the inward side. You can distinguish the two rings by sliding them temporarily onto the 5 mm tail shaft: the disk with the smaller inner diameter will sit tightly, the ring with the larger inner diameter will wobble a tiny bit.

Mount the cage with the bearing balls in it so the balls point to the outside, the cage to the inside. This is to prevent the balls from beaching on the cage eventually, so blocking (and destroying) the bearing. The cage is not an oil (or grease) sump but a separator and guide for the bearing balls.

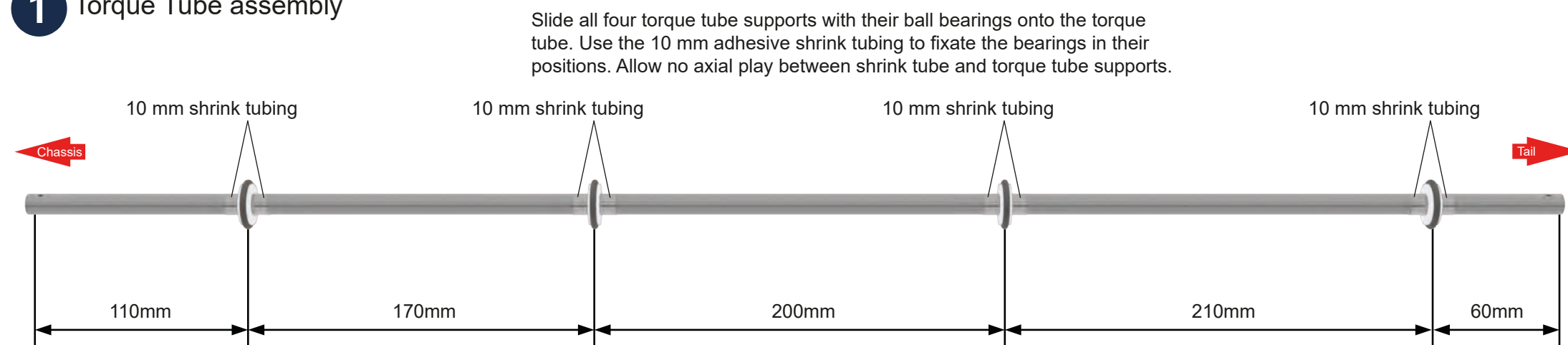
Bag 7

2x		6x13x5
3x		15x21x4
2x		M2,5x10
3x		M2,5x27
1x		M2,5x16
2x		M3x24
2x		M3
6x		M2,5
2x		3x7x0,5
2x		5x10x4
4x		5x10x4
6x		4,5x2
2x		7x10x0,5
2x		5x7,8x0,6
2x		
1x		M2x10
1x		6x9x0,2
3x		6x9x0,1
2x		5x7x0,1

1x		M3x30
1x		M2x12
1x		3x5x12,2
1x		M3
1x		M2
2x		3x6x2,5
1x		3x5x0,5
1x		

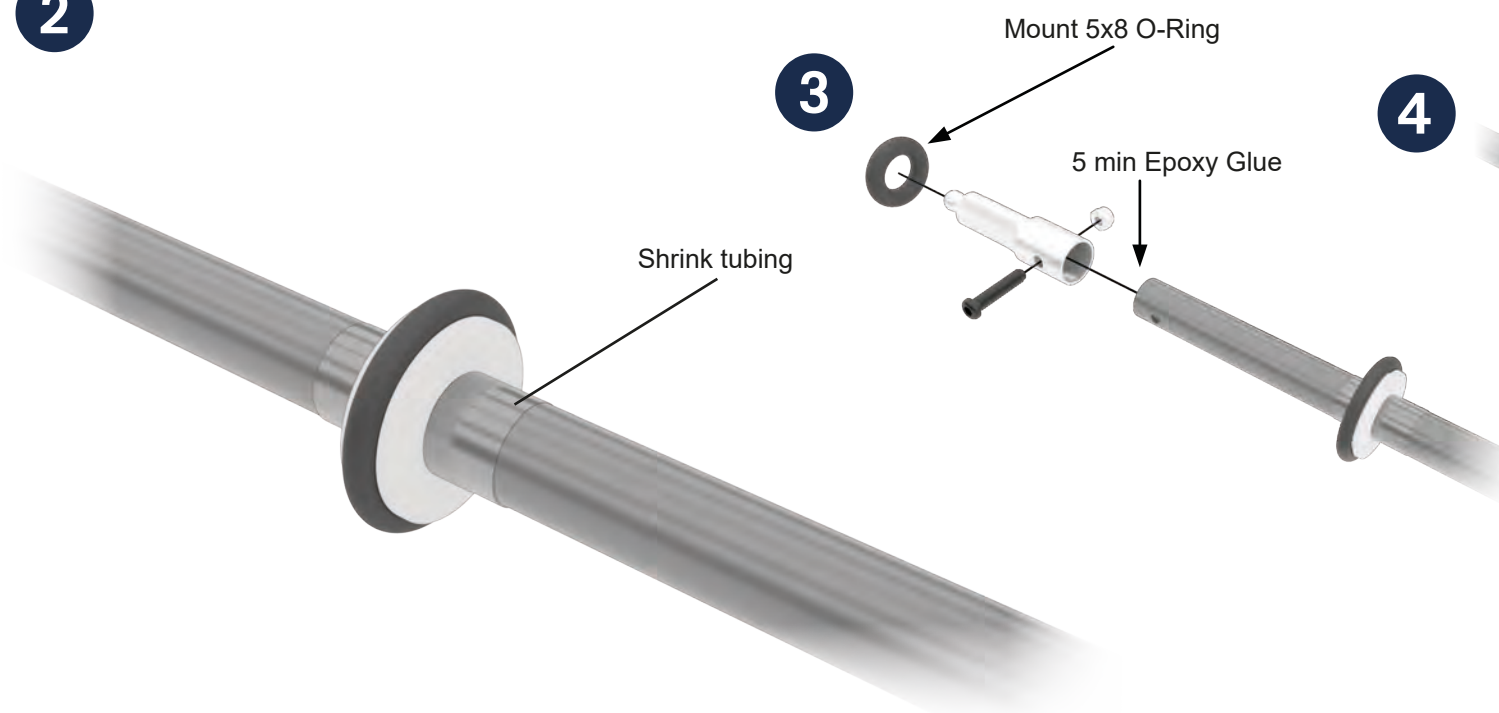
3 Torque Tube

1 Torque Tube assembly



Bag 8 + 12	
2x	M3x16
2x	M3
2x	3mm
1x	3x8mm
2x	5x8mm

2



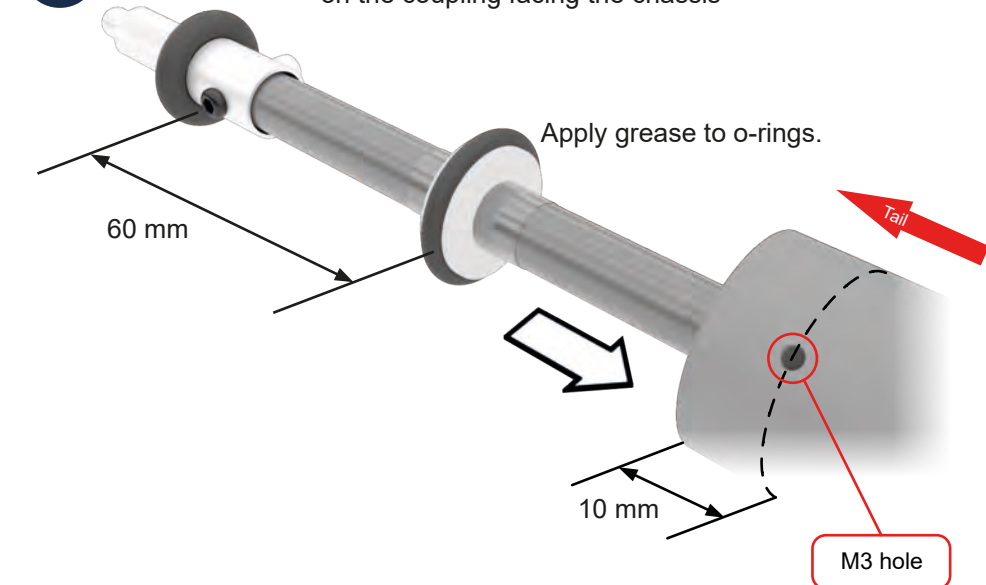
4



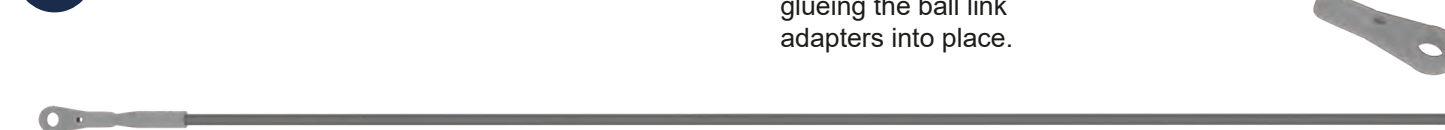
5



6



7 Carbon tail rotor push rod



Make sure the tail torque tube is clean before inserting it into the tail boom. If necessary, clean with a lint free cloth.

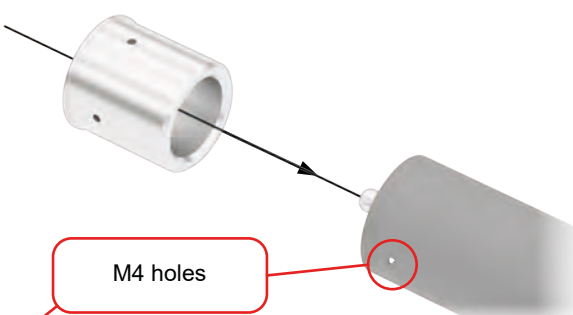
Apply an ample amount of grease to the rubber o-rings and to the inside of the tail boom before inserting the torque tube assembly into the tail boom.

4 Tail Boom Mounting

Bag 1

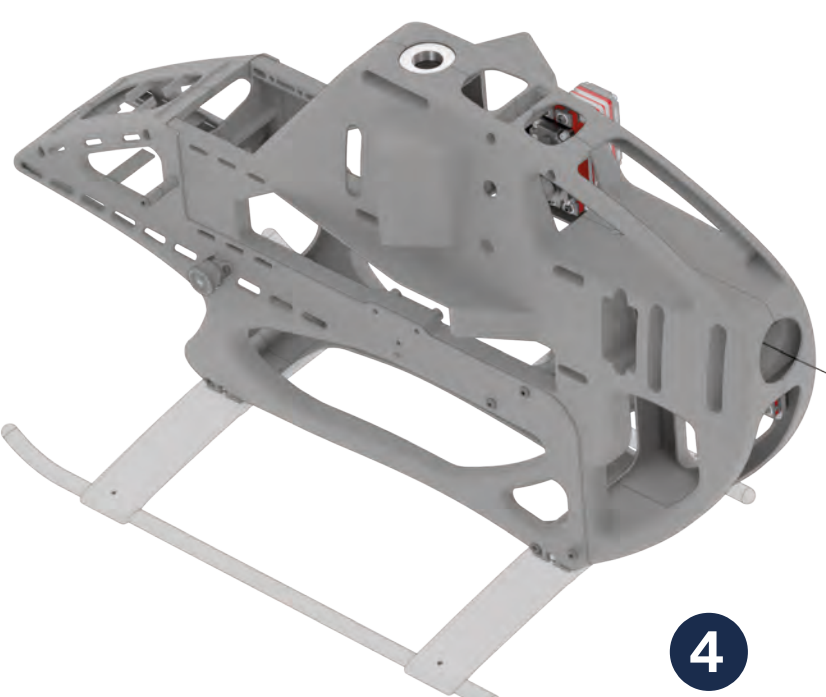
2x		M2,5x16
2x		M4x12

1



2

M4 holes



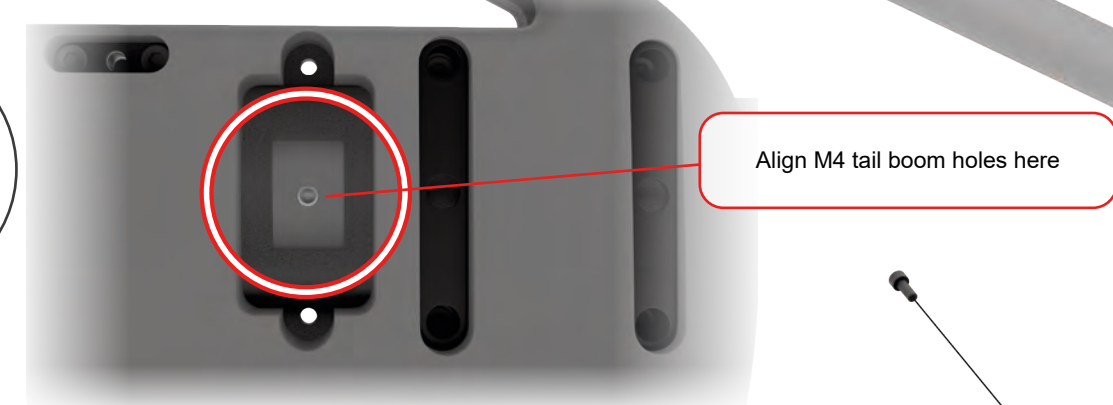
3



4

M3 threaded hole on top serves as mounting point for antistatic-kit

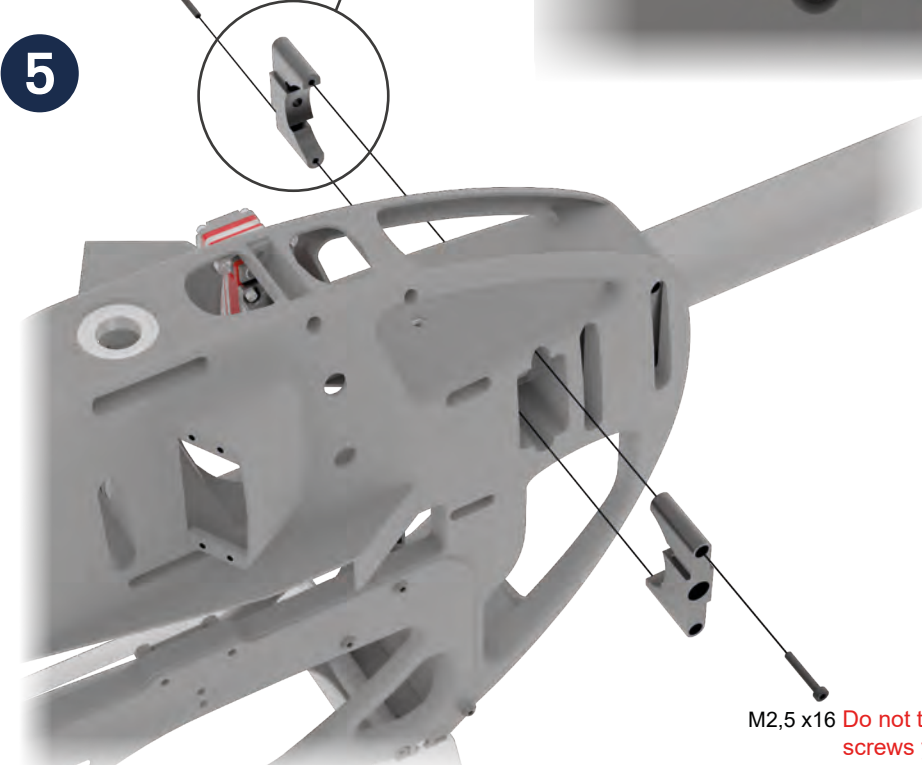
Align M4 tail boom holes here



5

M2,5 x16

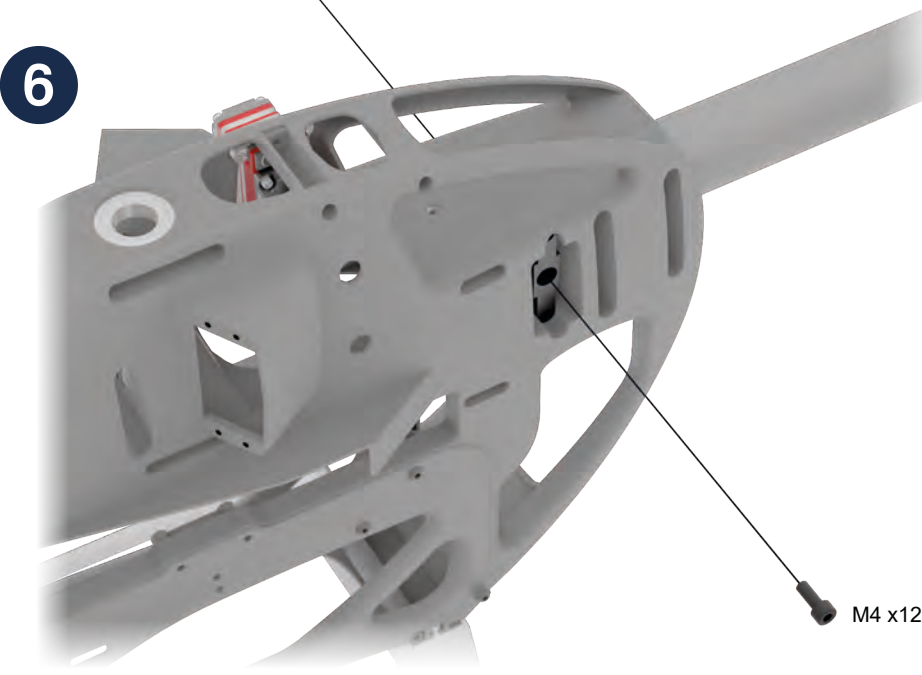
M2,5 x16 Do not tighten screws yet



6

M3 hole

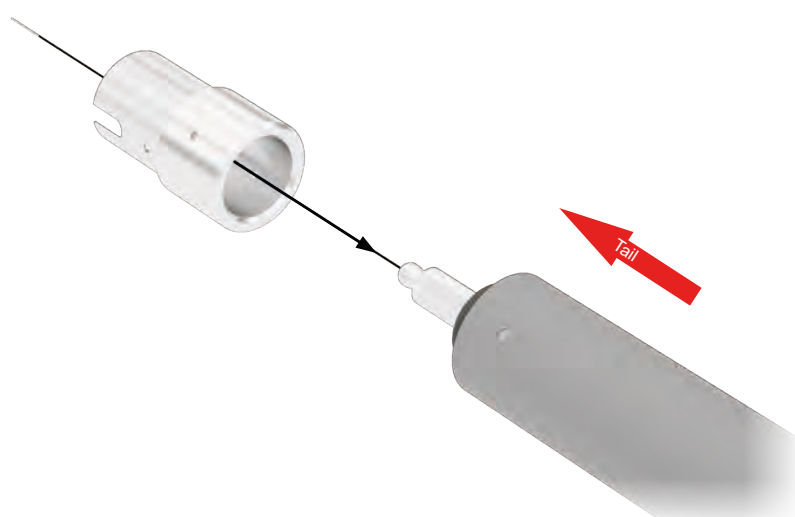
M4 x12 Do not tighten screws yet, no loctite yet



4 Tail Boom Mounting

1

Mount steps 1,2,3 without any loctite

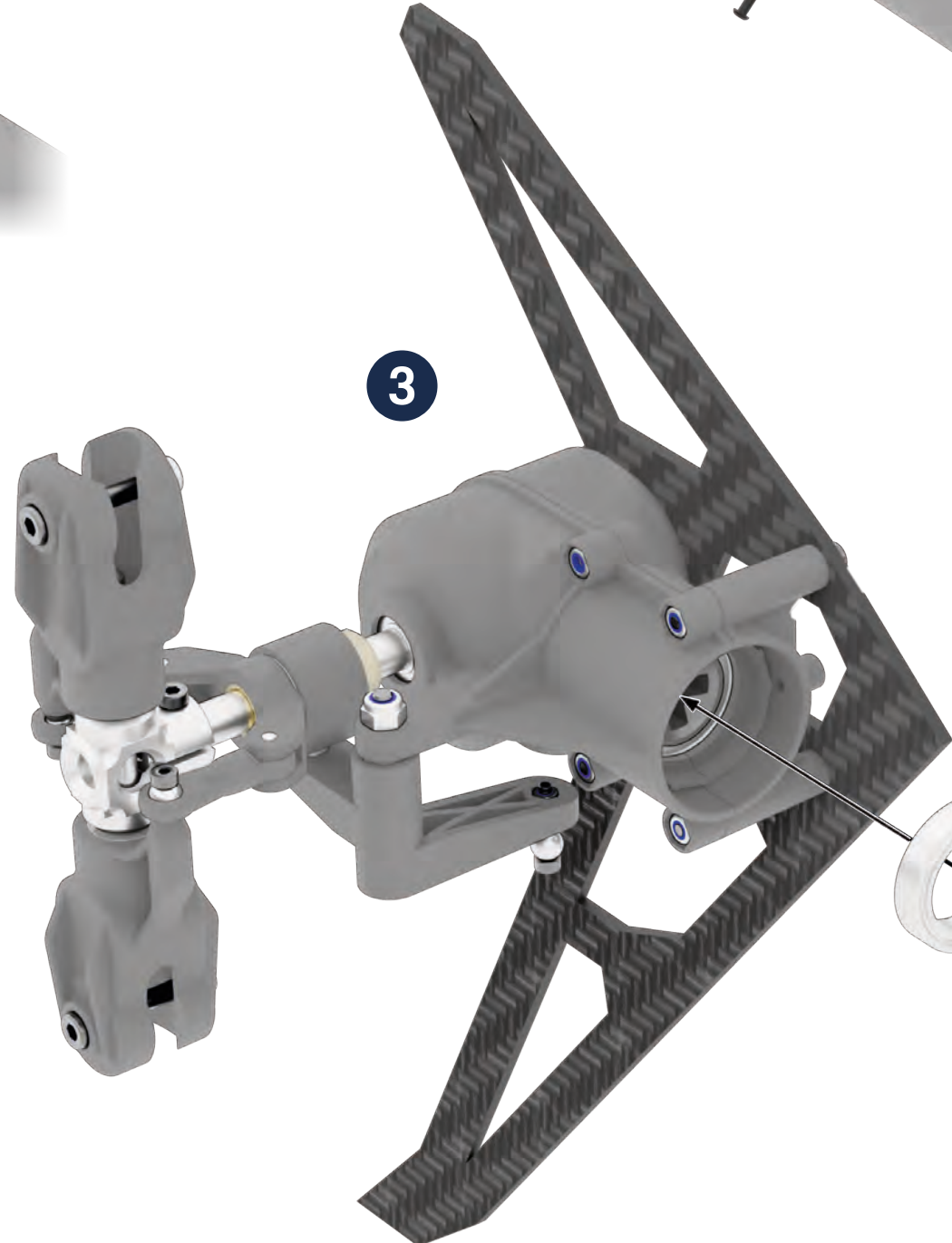


2

Do not tighten screws yet



3



15x21x4

Place ball bearing in bearing seat inside the tail housing.

Bag 7

4x



M3x4L

1x

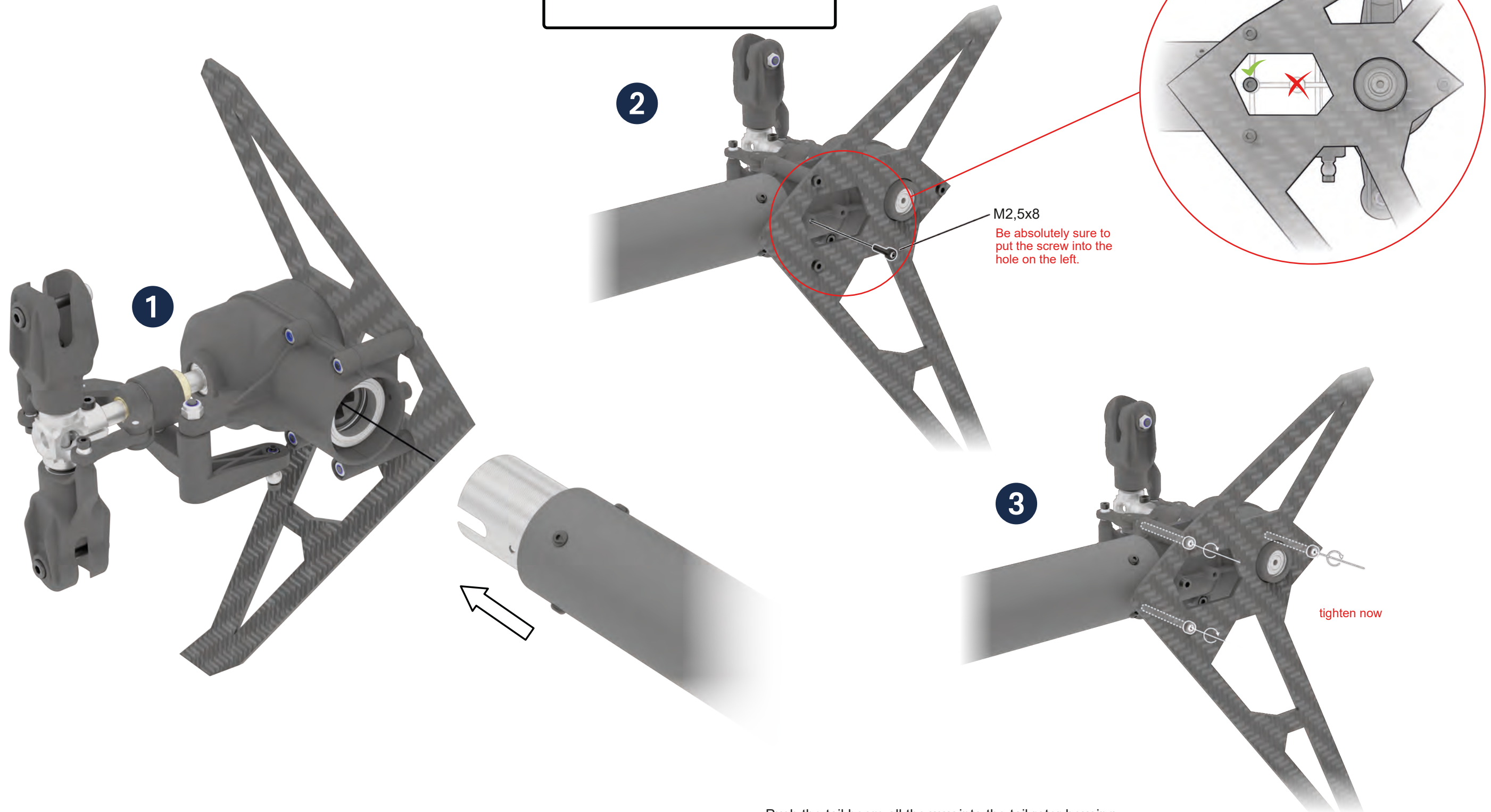
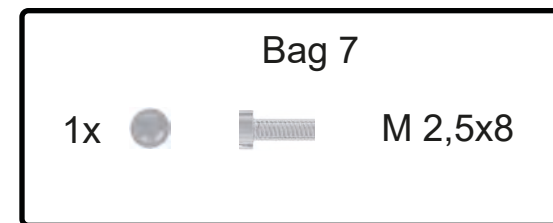


15x21x4

4 Tail Boom Mounting

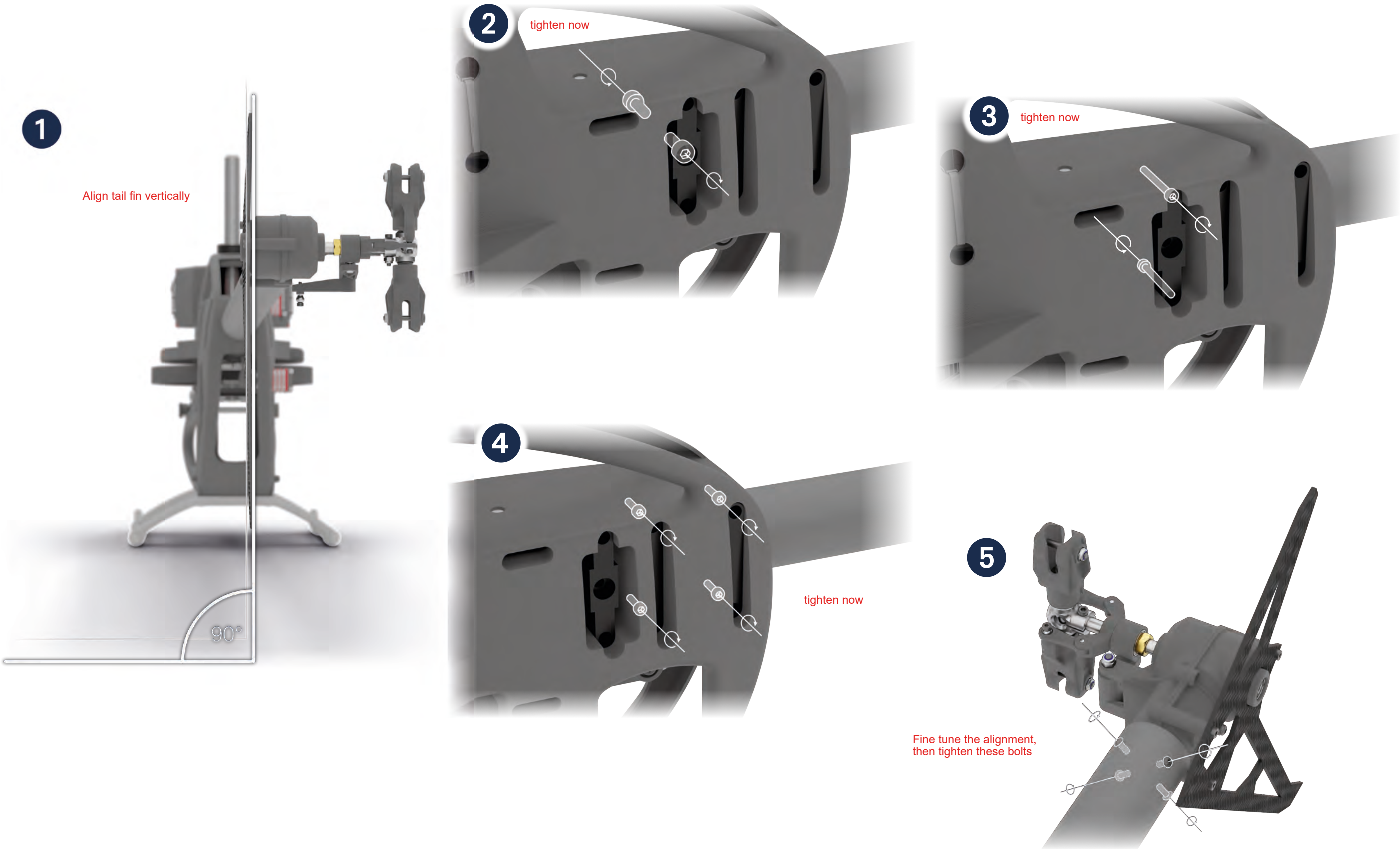
Now the tail is aligned with the cutout in the clamp at the front of the chassis.

Tighten the screws in this order:



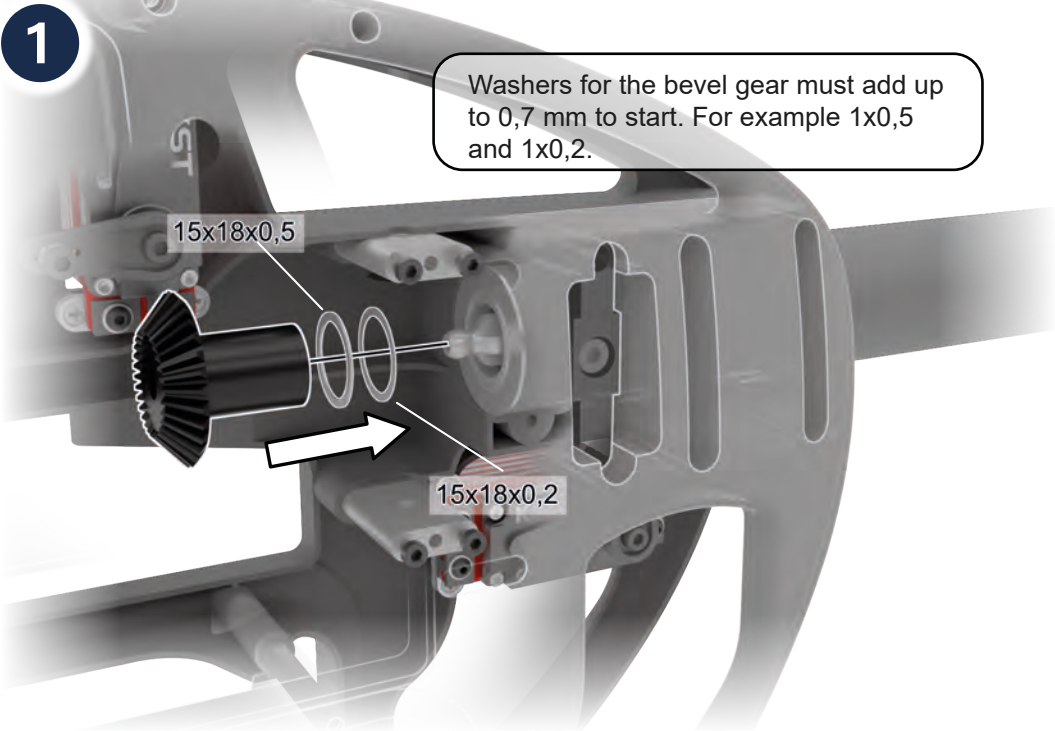
Push the tail boom all the way into the tail rotor housing. Tighten the M2,5x27 screws holding the tail boom firmly, make sure the drilled hole for the rotation prevention in the tail boom is aligned properly. Finally fixate the tail boom using the M3x8 hex screw.

4 Tail Boom Mounting

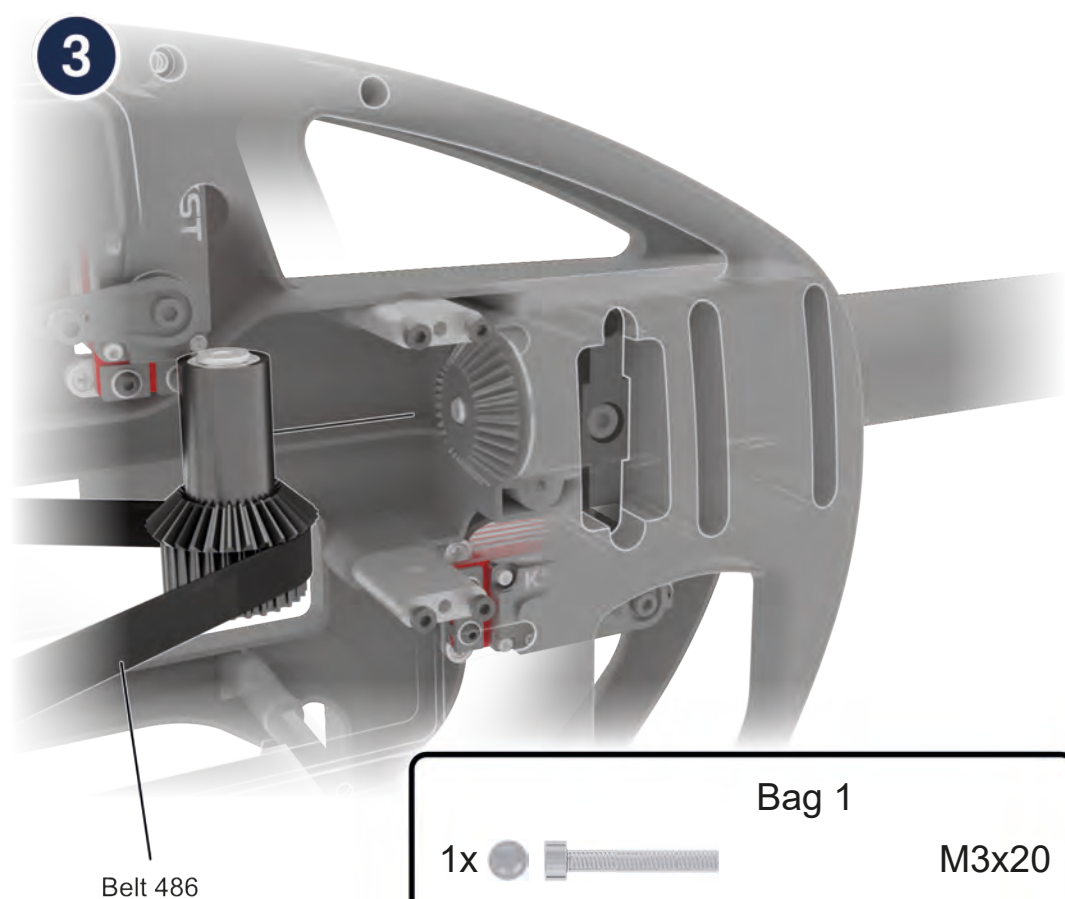
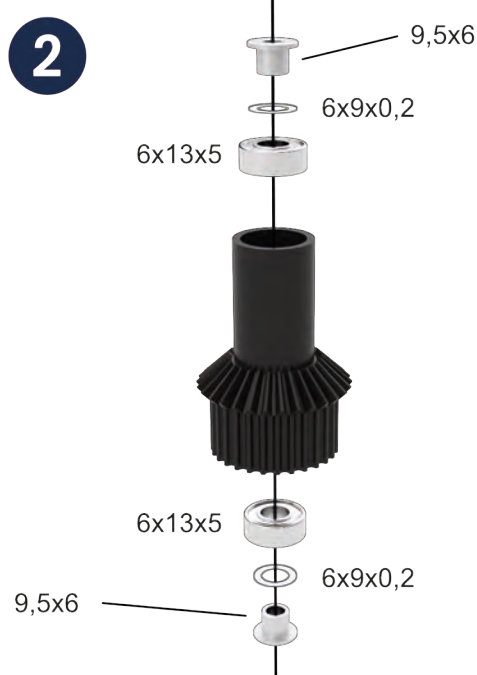


4 Tail Boom Mounting

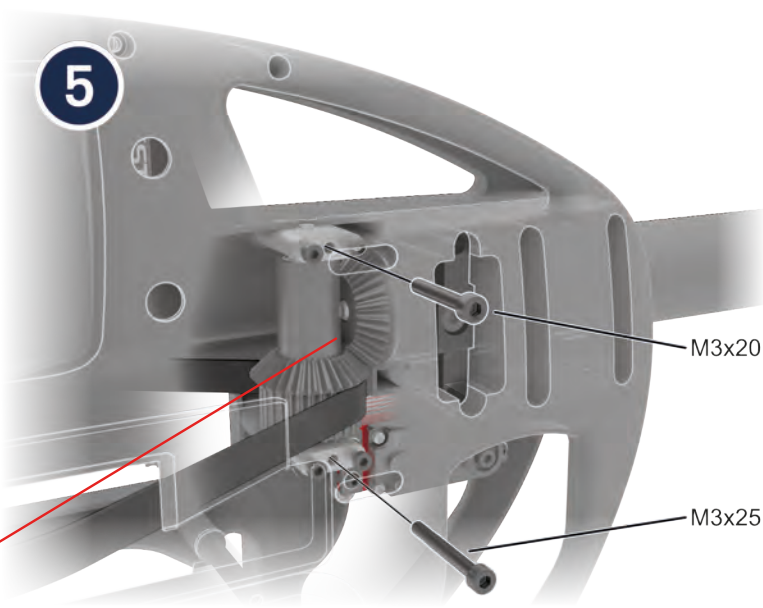
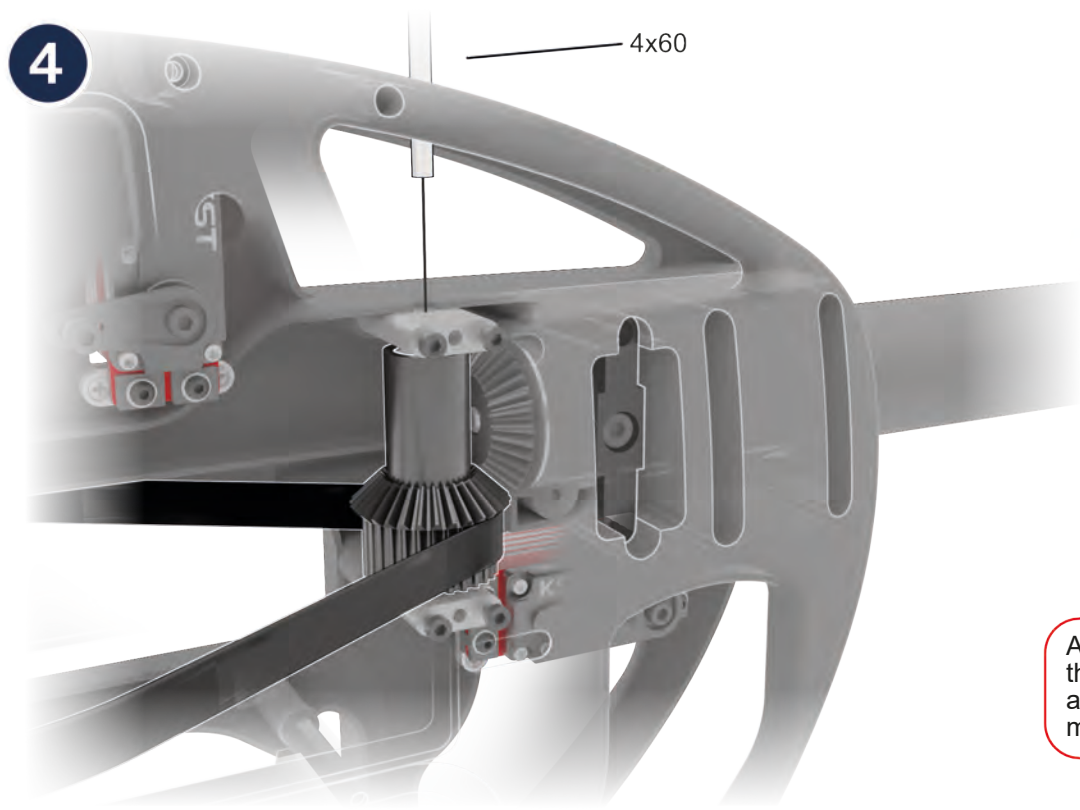
Mount the aluminum braket and tail boom to the chassis with the M4 screw.
Place the bevel wheel in the tail boom.



Assemble the pulley wheel.



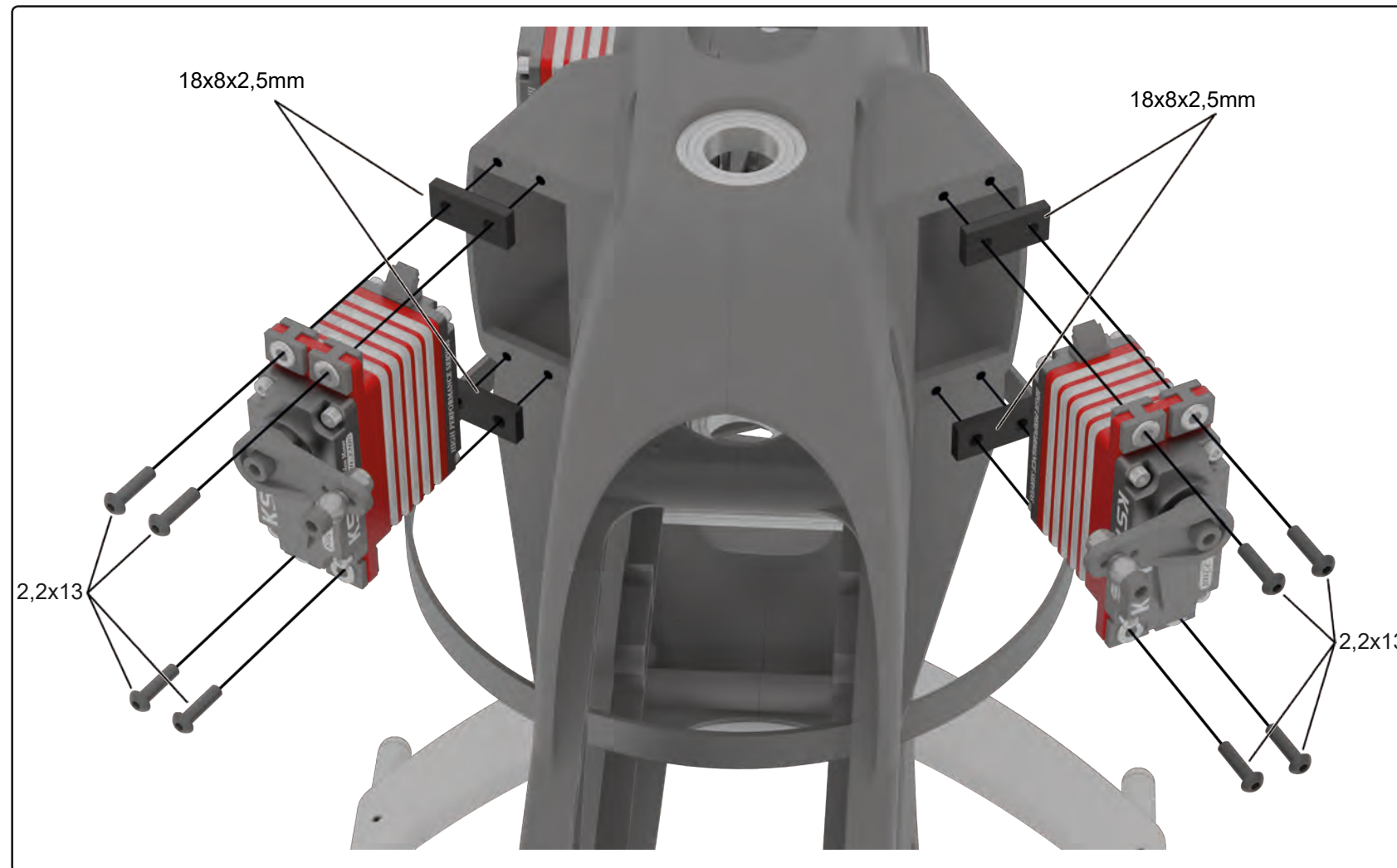
Start adjusting the gear mesh with 0,7 mm washers on the bevel gear and 0,2 mm washers at the top and bottom of the pulley. If this is yet insufficient, carefully adjust the alignment with additional washers until there is next to no backlash.



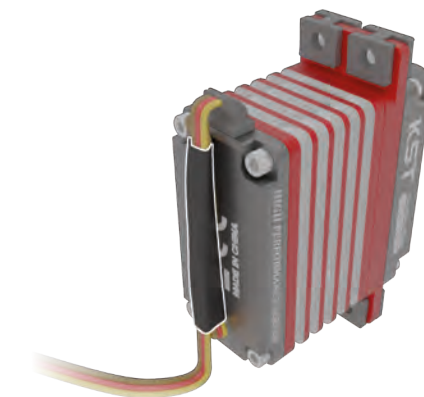
Bag 1

1x		M3x20
1x		M3x25
1x		18x15x0,5
2x		18x15x0,2
2x		18x15x0,1
4 x		6x9x0,1
2x		6x9x0,2
2x		6x13x5
2x		9,5x6
1x		4x60

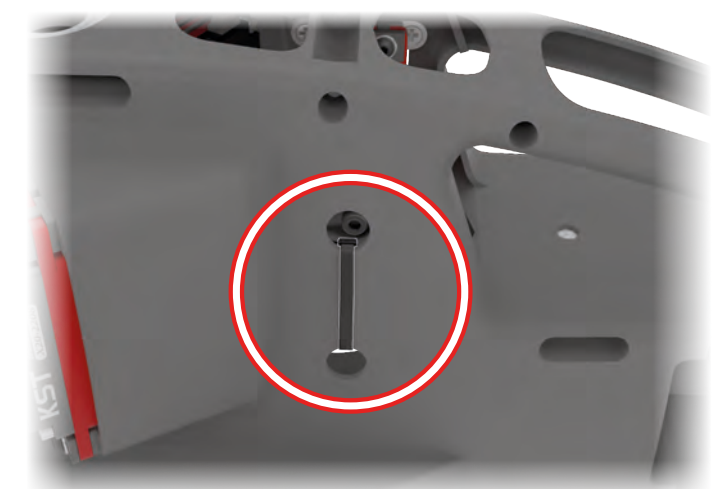
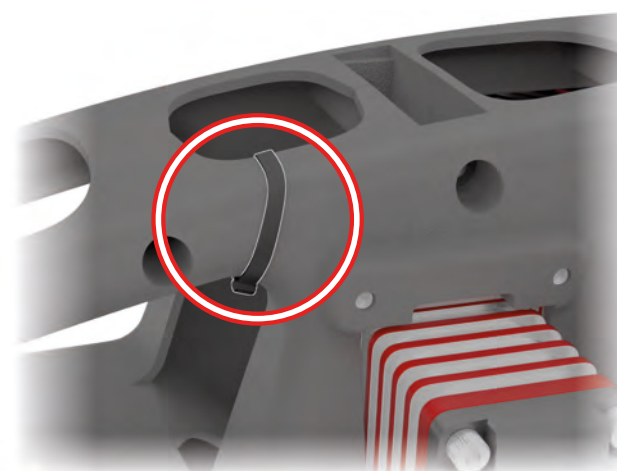
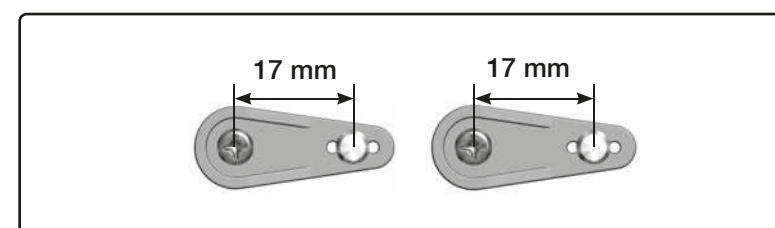
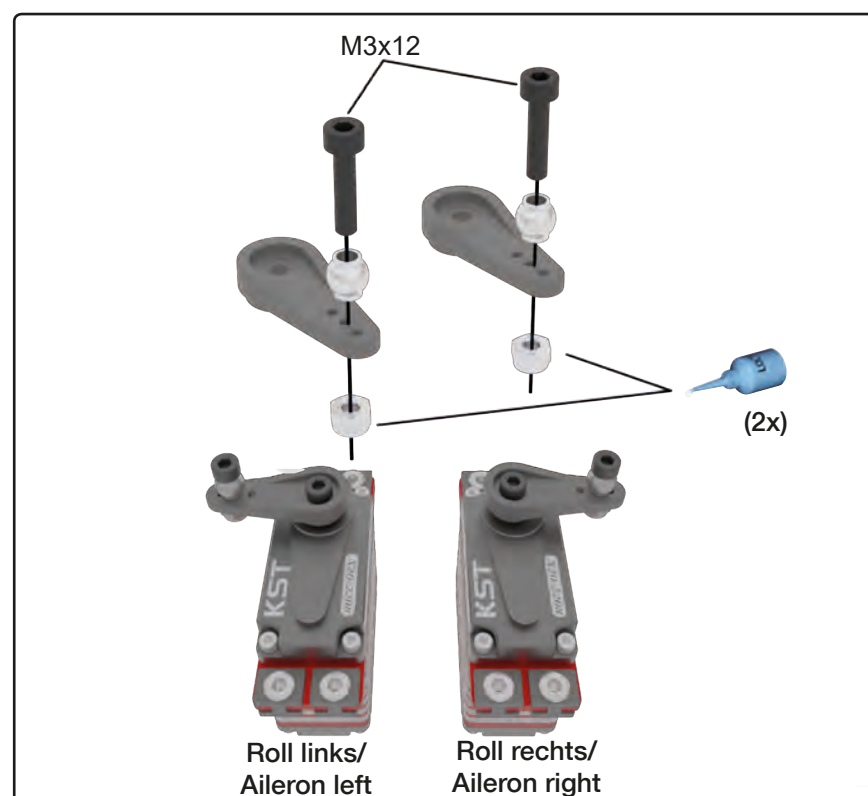
5 Servo Mounting



Bag 3			
8x		M2,2x13	
2x		M3x12	
2x		Kugel/ball Ø6mm	
2x		M3	
4x		18x8x2,5	

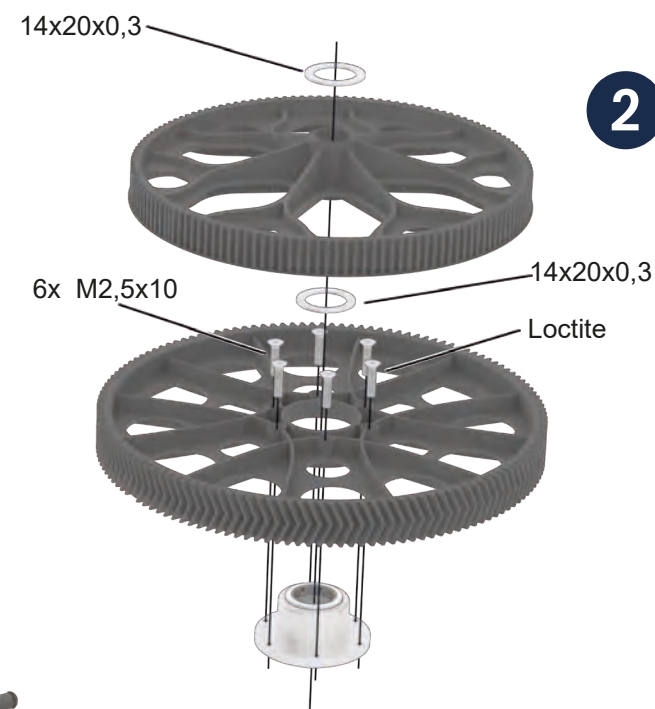


Roll links/Aileron left:
Secure servo wire to the
bottom side of the servo
casing using electrical
tape or scotch tape.

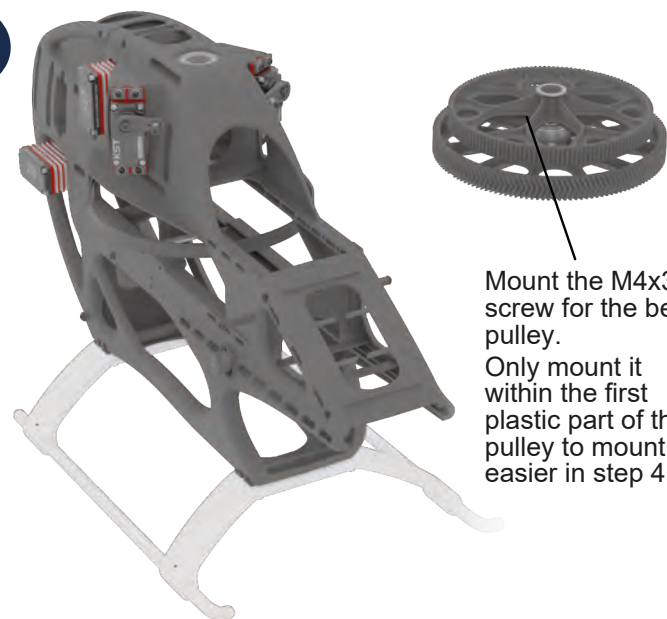


6 Main Gear

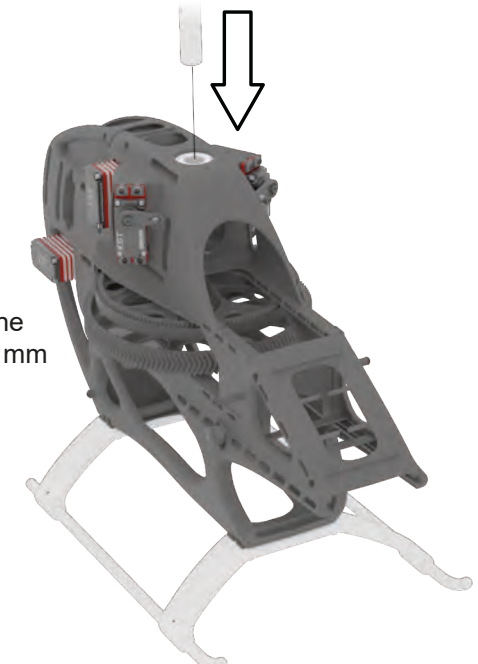
1



2



3



Bag 4

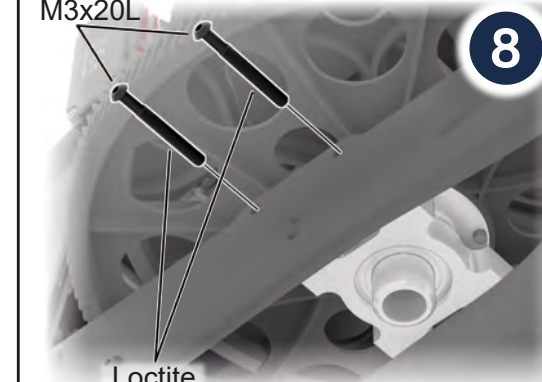
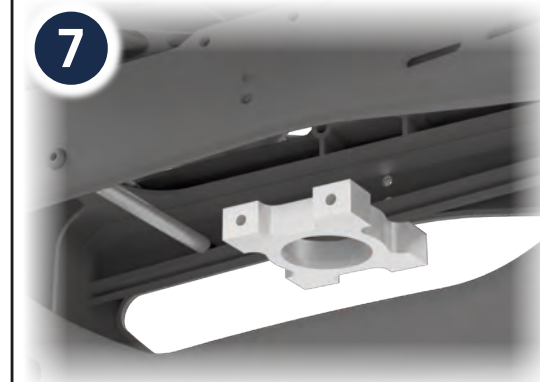
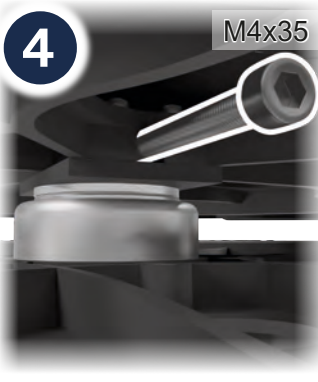
6x		M2,5x10S
1x		M3x10
4x		M3x20L
1x		M4x35
2x		14x20x0,3
1x		M4Stopp

In this step, at the same time:

- 1 Pull up the main shaft.
- 2 Push down the clamping ring.
- 3 Tighten the M3x10 screw.

Check after step 9:

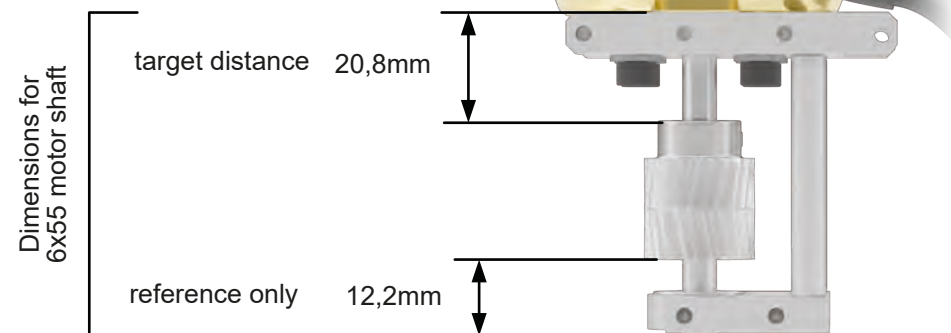
When mounted properly, the main gear has approx. 0.5 mm axial (vertical) play.



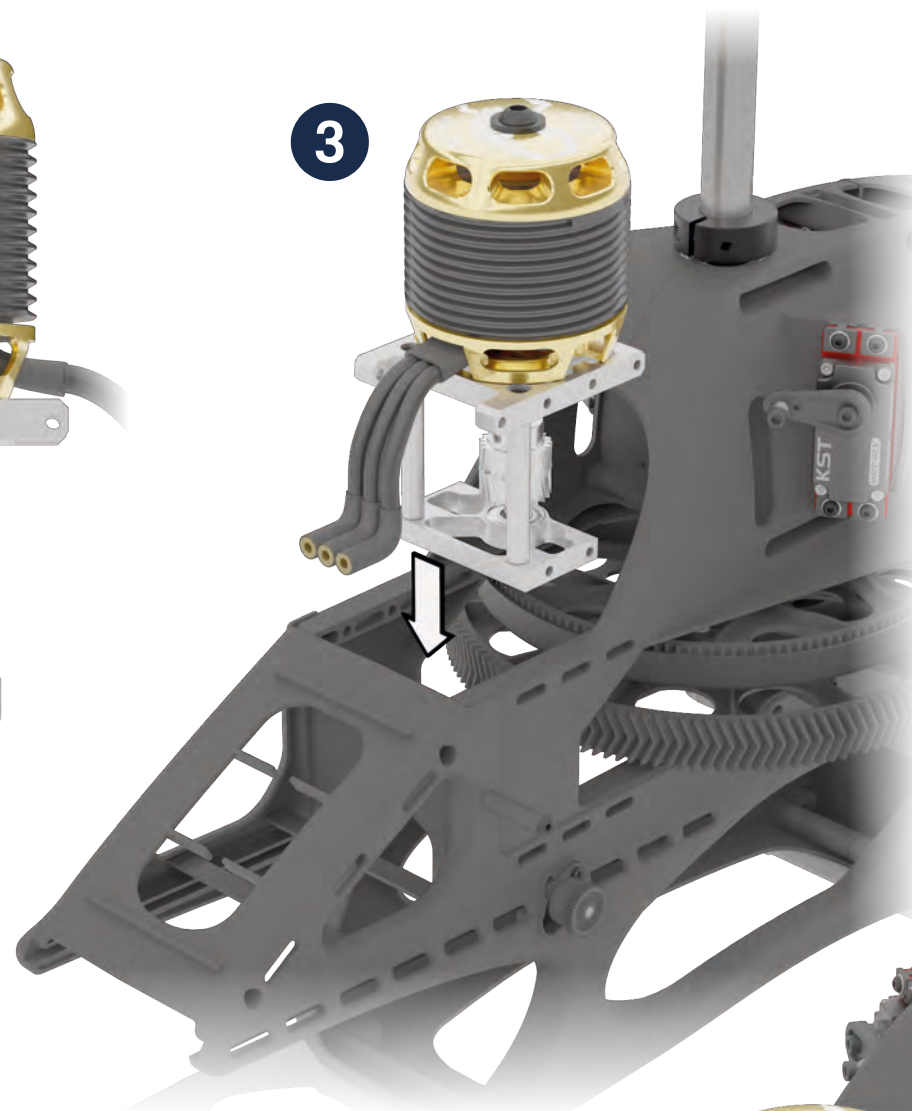
7 Motor Installation

1

Mount pinion:
Position the pinion on the motor shaft
so the grub screw sits in the flat spot
on the motor shaft.

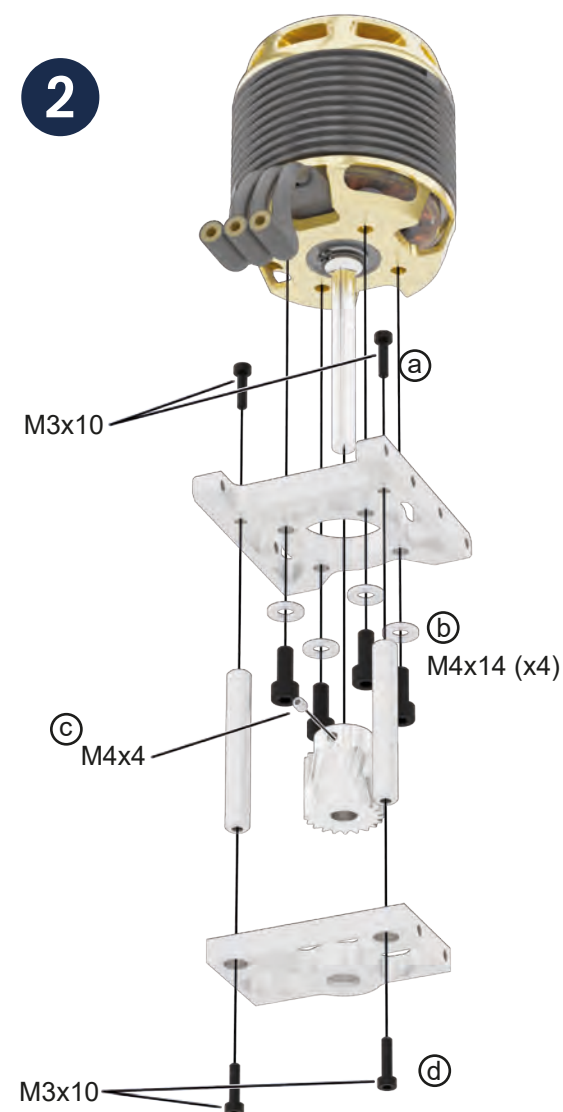


3



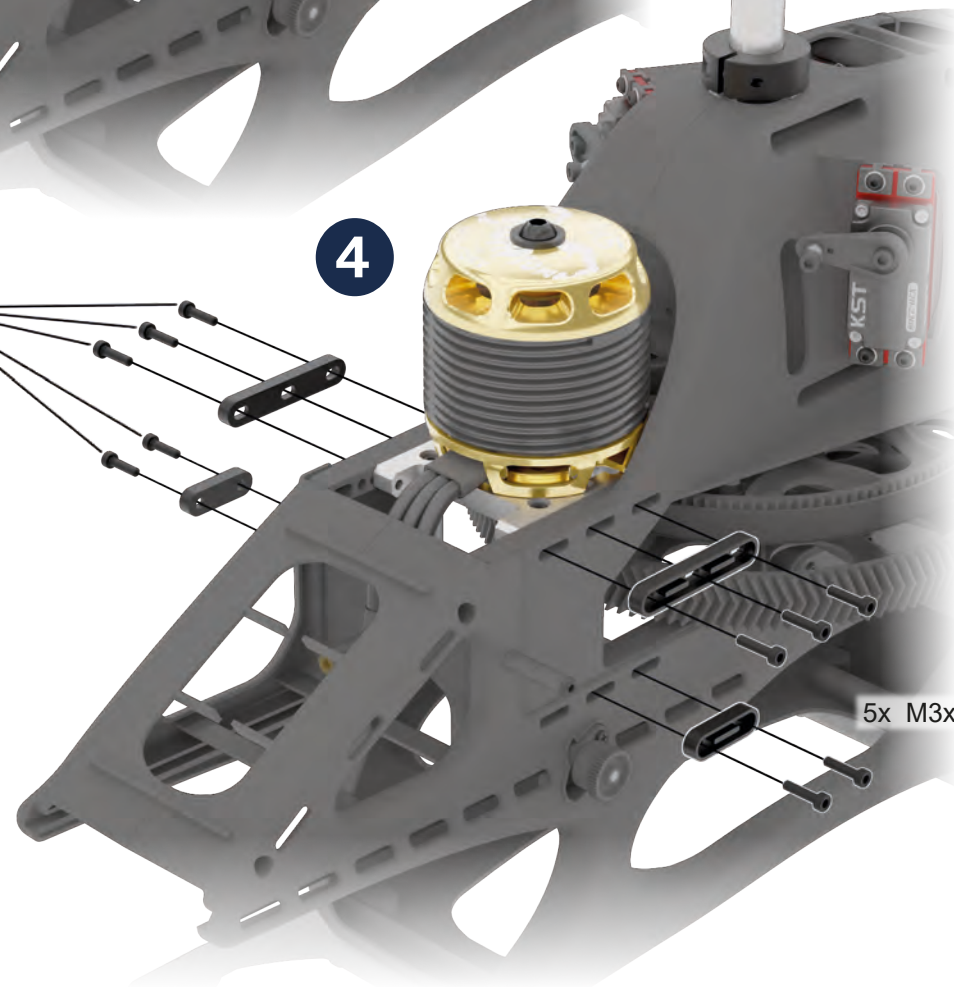
Bag 6		
4x		M3x10
10x		M3x16
4x		M4x14
4x		
1x		M4x4

2

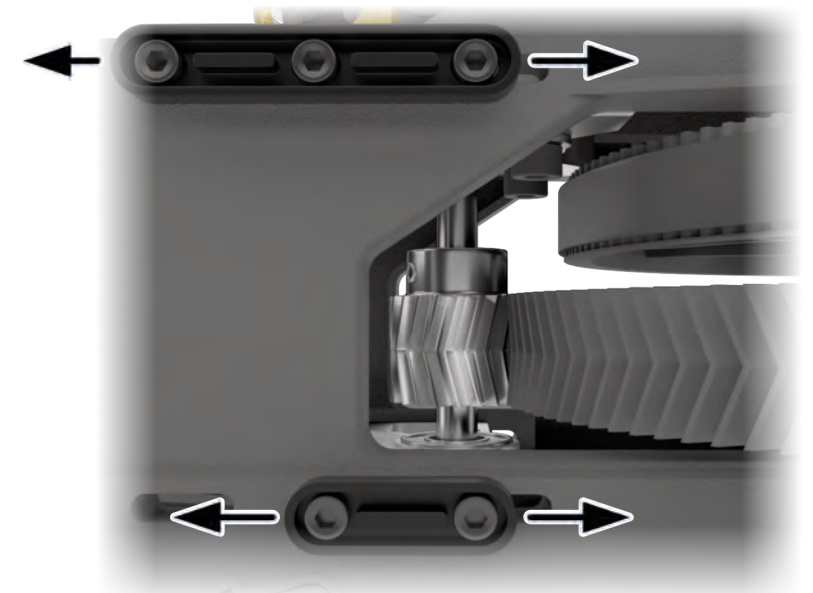


4

5x M3x16
Do not tighten screws yet

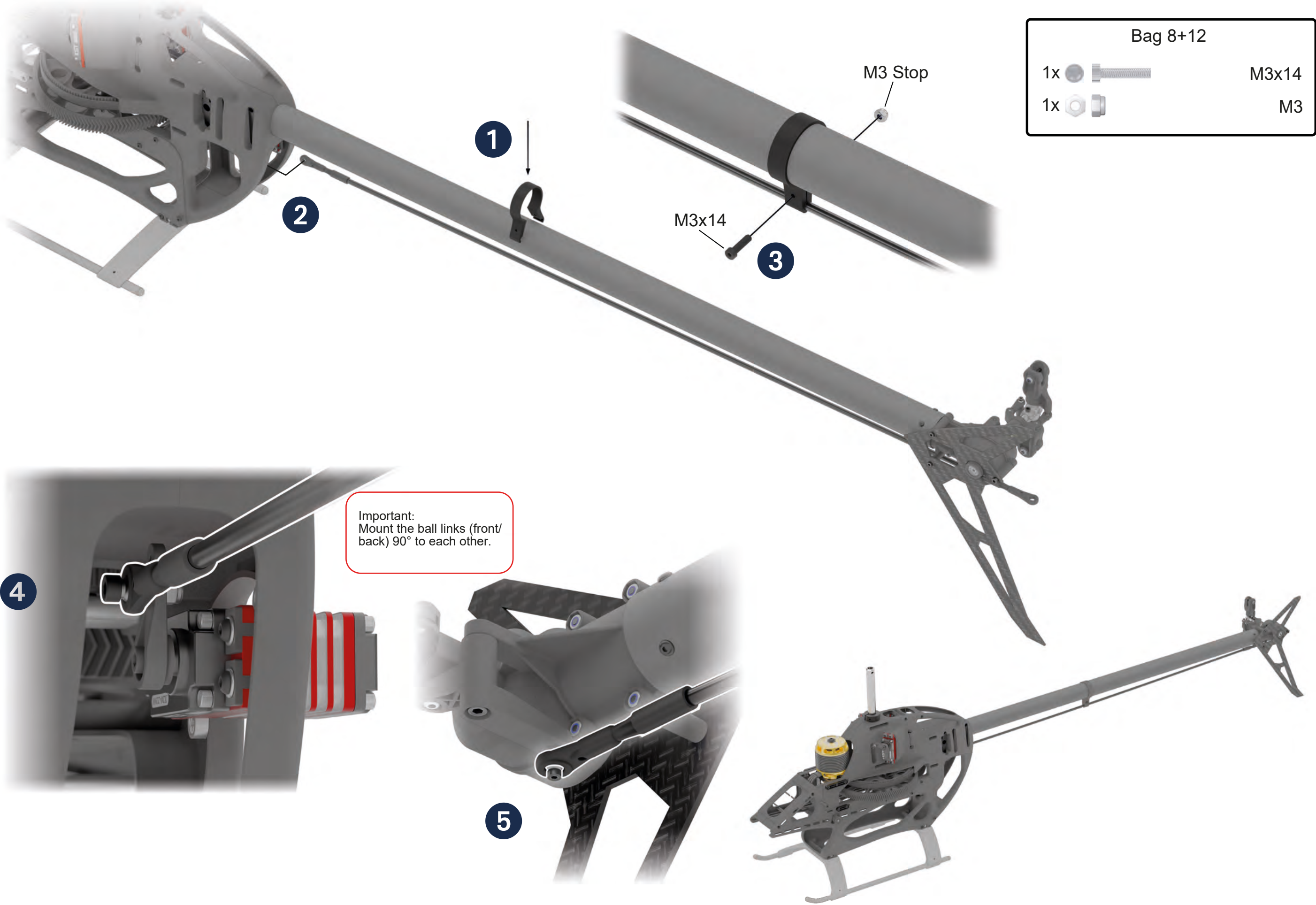


5

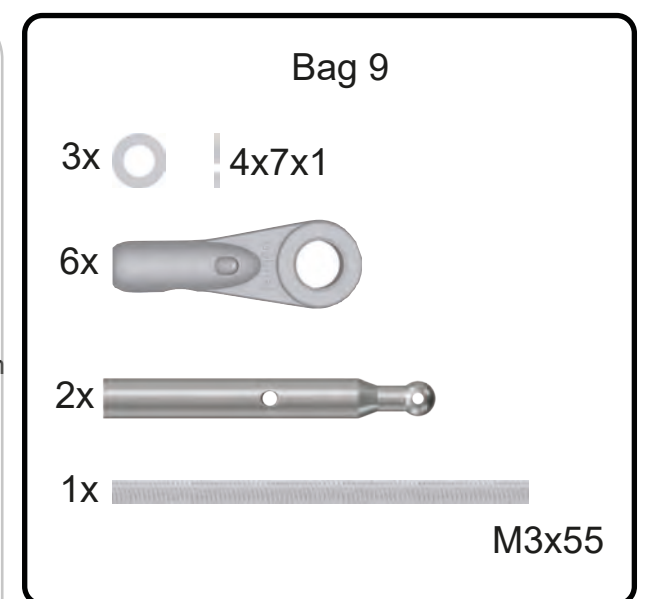
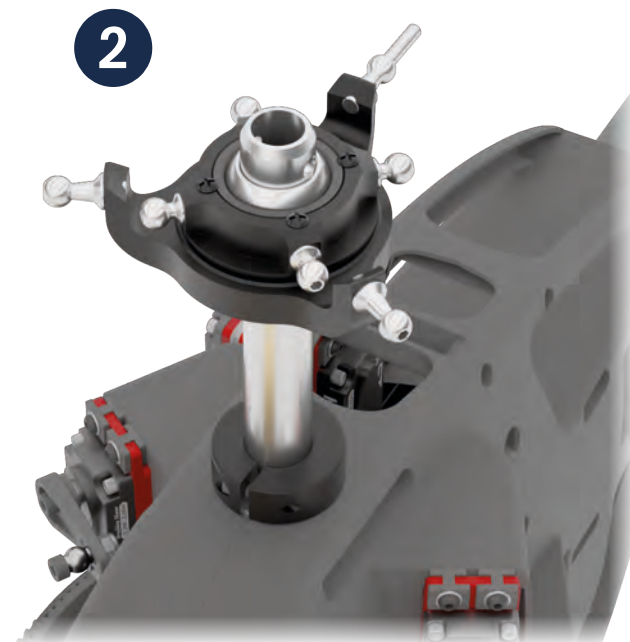
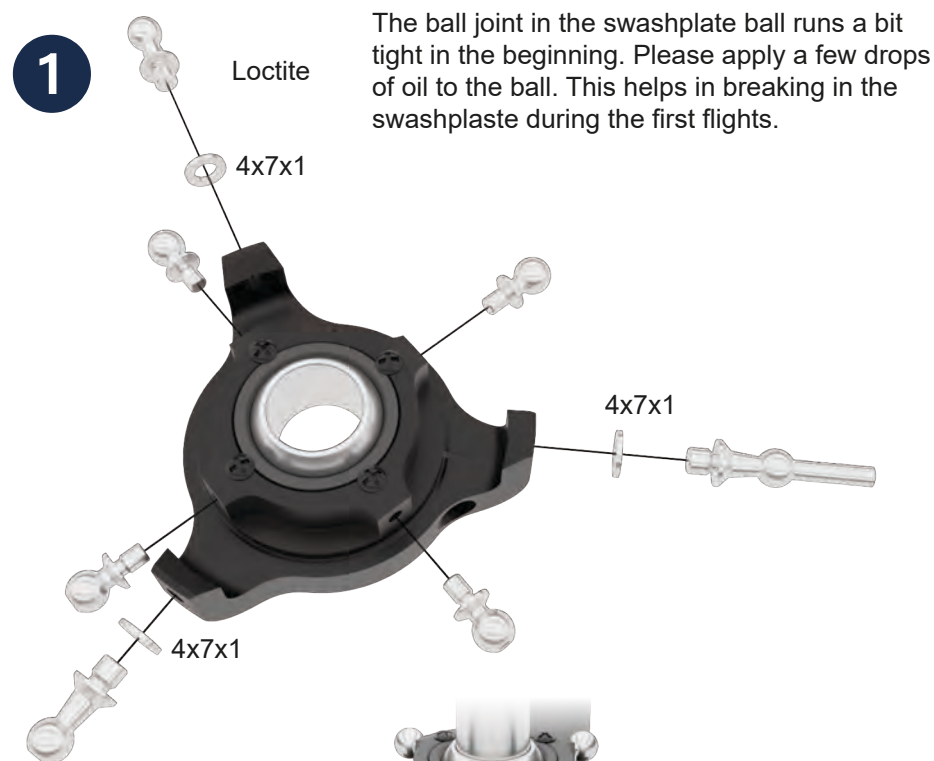


There must be next to no backlash
between main gear and pinion.
Check the gear mesh after the
first couple of flights.

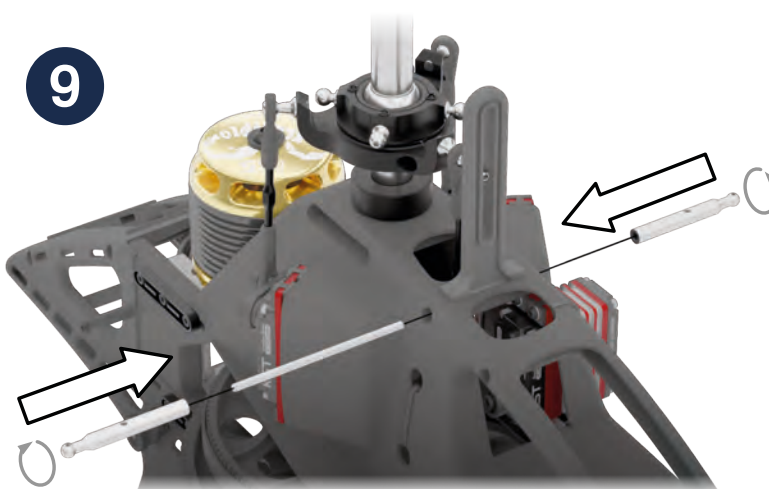
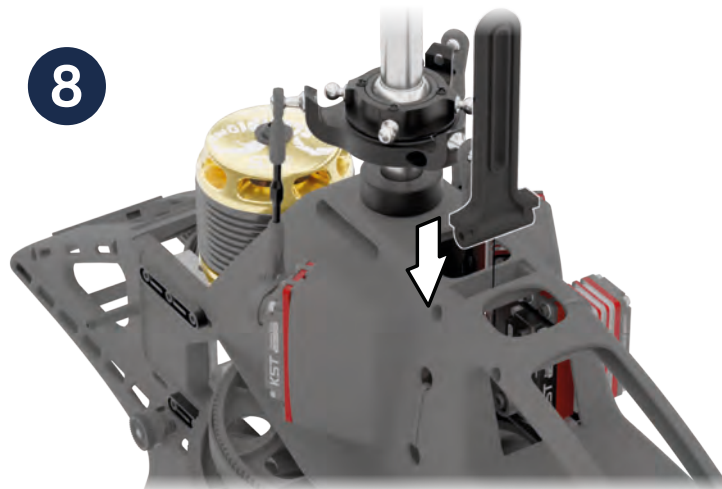
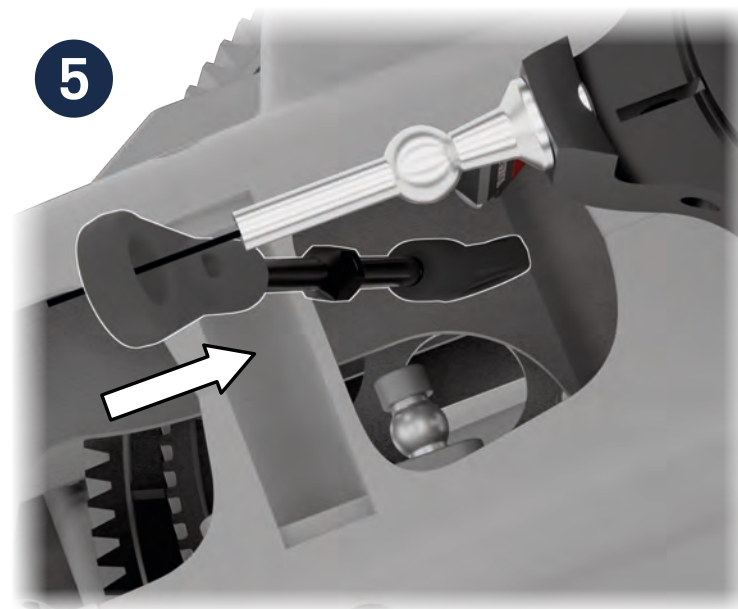
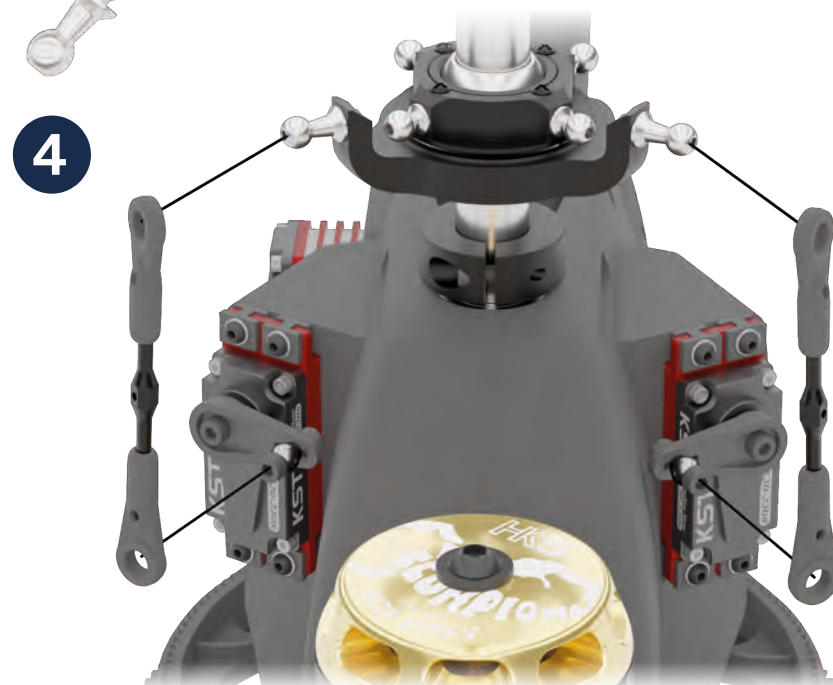
8 Tail Boom Brace



9 Swashplate

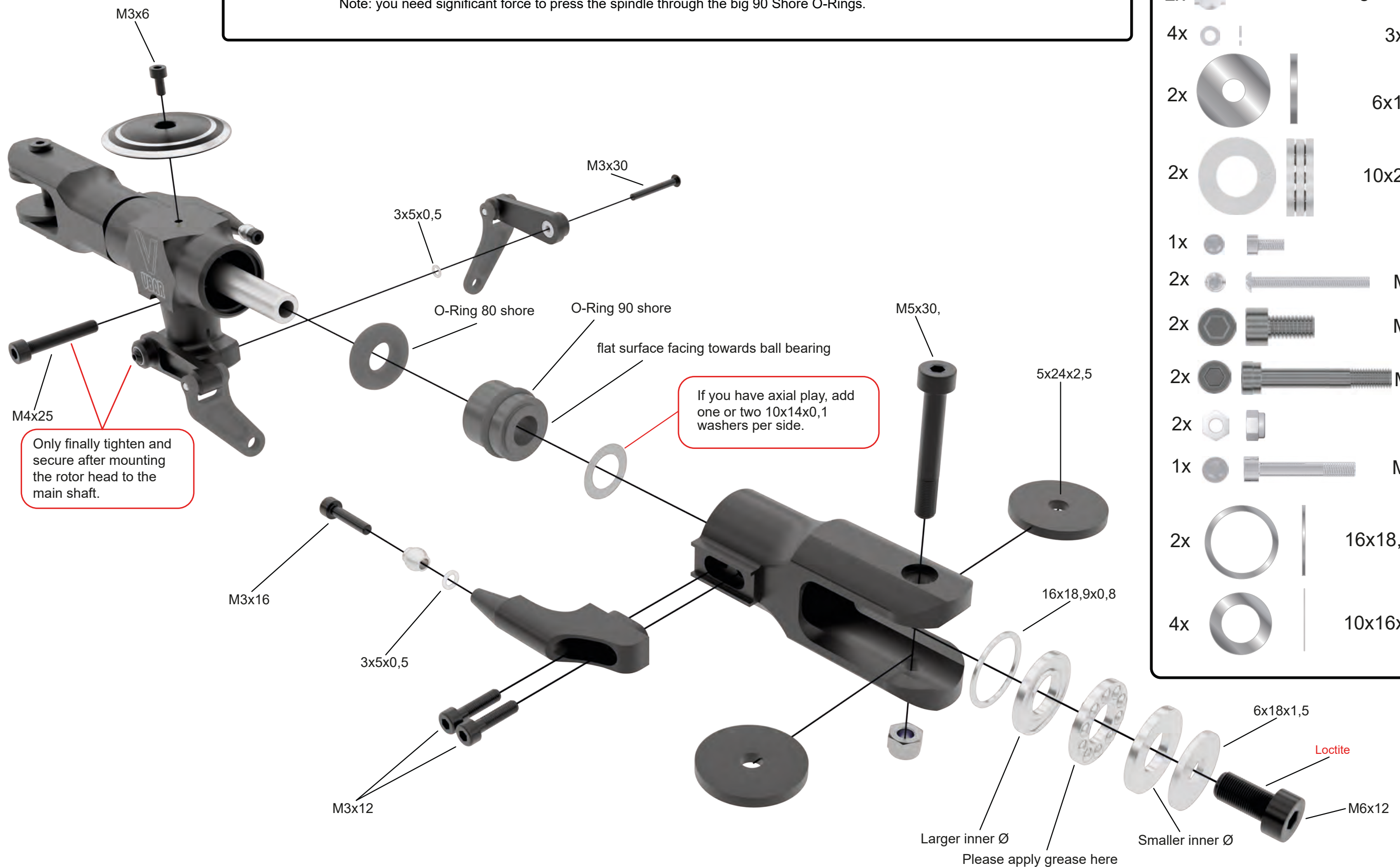


Note when mounting the ball links:
Only one side of the ball link will clip on easily. The brand name „Gabriel“ must point outwards.



10 Rotor Head

1. Low RPM dampener setup: use both big and small 70 Shore O-rings, for 1,500 to 1,900 head speed
 2. Medium head speed setup: use the small 90 shore and big 70 shore O-Rings for 1,700 to 2,000 head speed
 3. High RPM 3D setup: use all four 90 shore O-rings for 1,800 to 2,100 head speed
- Note: you need significant force to press the spindle through the big 90 Shore O-Rings.



Bag 10

4x		M3x12
2x		M3x16
2x		Kugel/ball Ø6
4x		3x5x0,5
2x		6x18x1,5
2x		10x20x6,5
1x		M3x6
2x		M3x30
2x		M6x12
2x		M5x30
2x		M5
1x		M4x25
2x		16x18,9x0,8
4x		10x16x0,1

11 Rotor Head Linkage

1



2

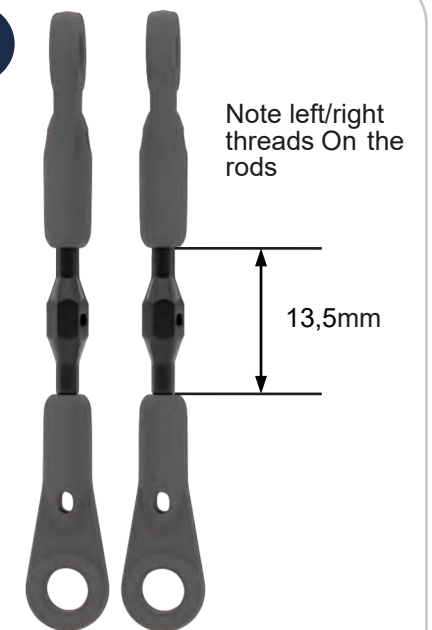


3



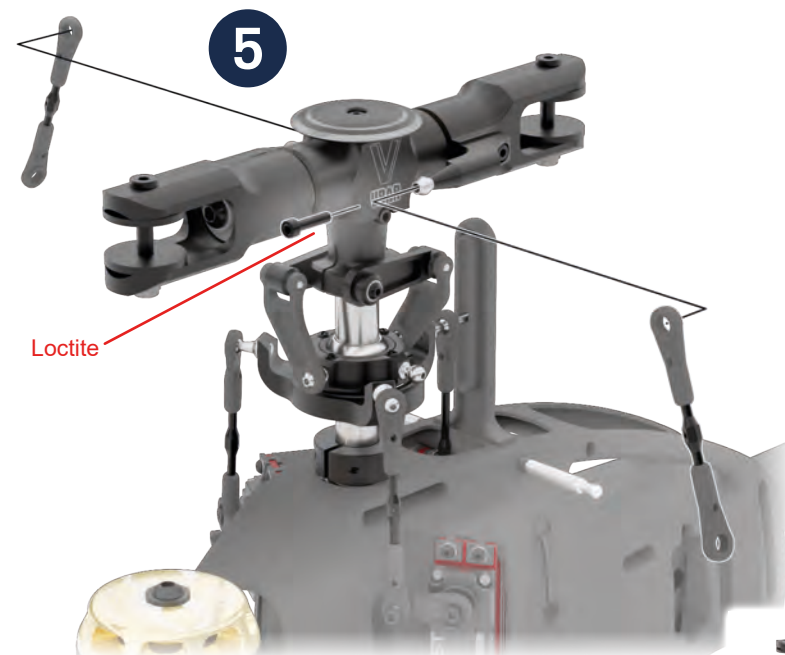
Tighten and secure the M4x25 screw in the main rotor head and the M3x30 in the swash plate driver after mounting and adjusting the rotor head and the linkages.

4



Note: When mounting the ball links: Only 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.

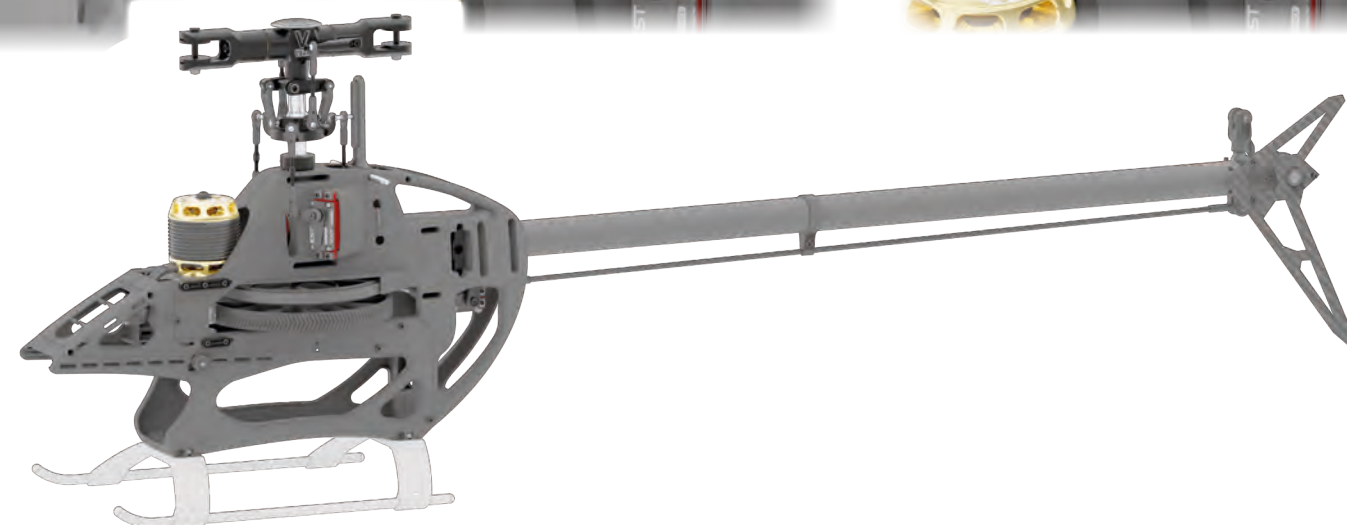
5



6



7



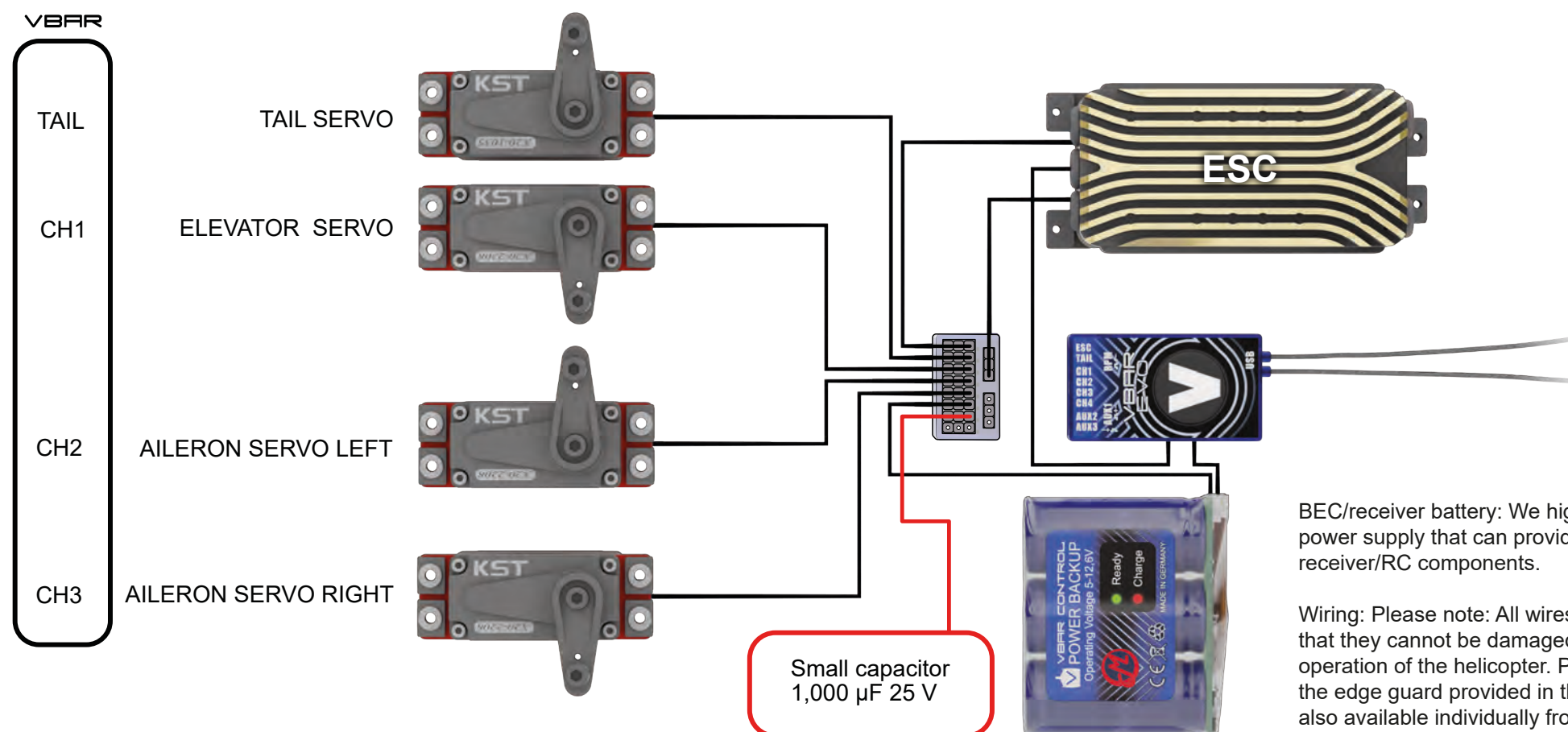
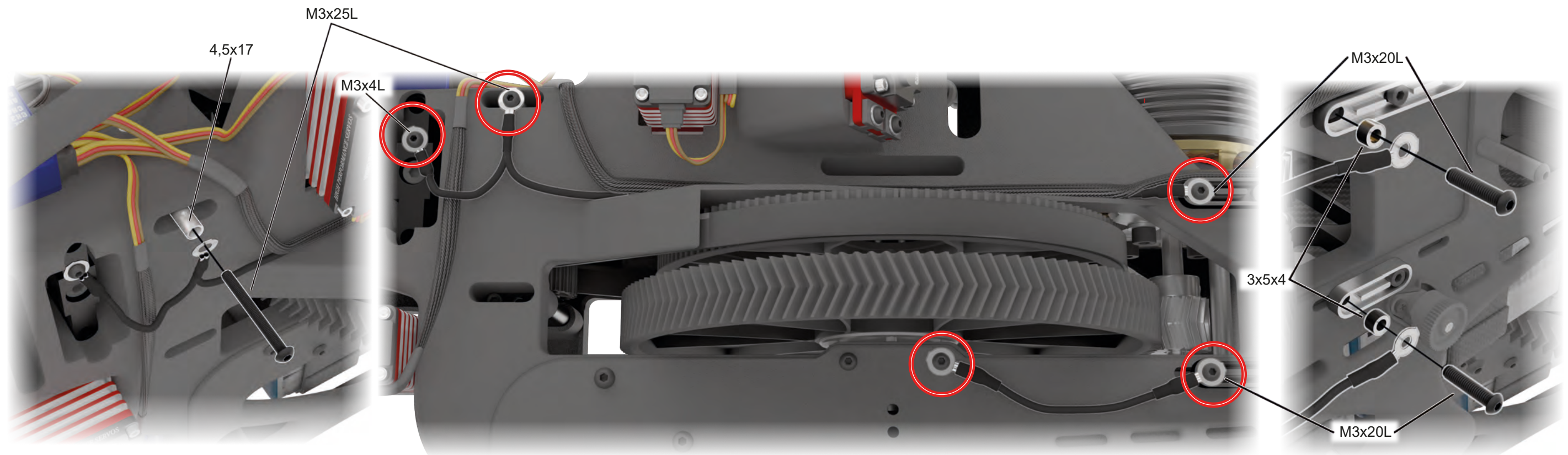
Bag 10

4x



12 Install Anti Static Kit

13 Wiring RC Components

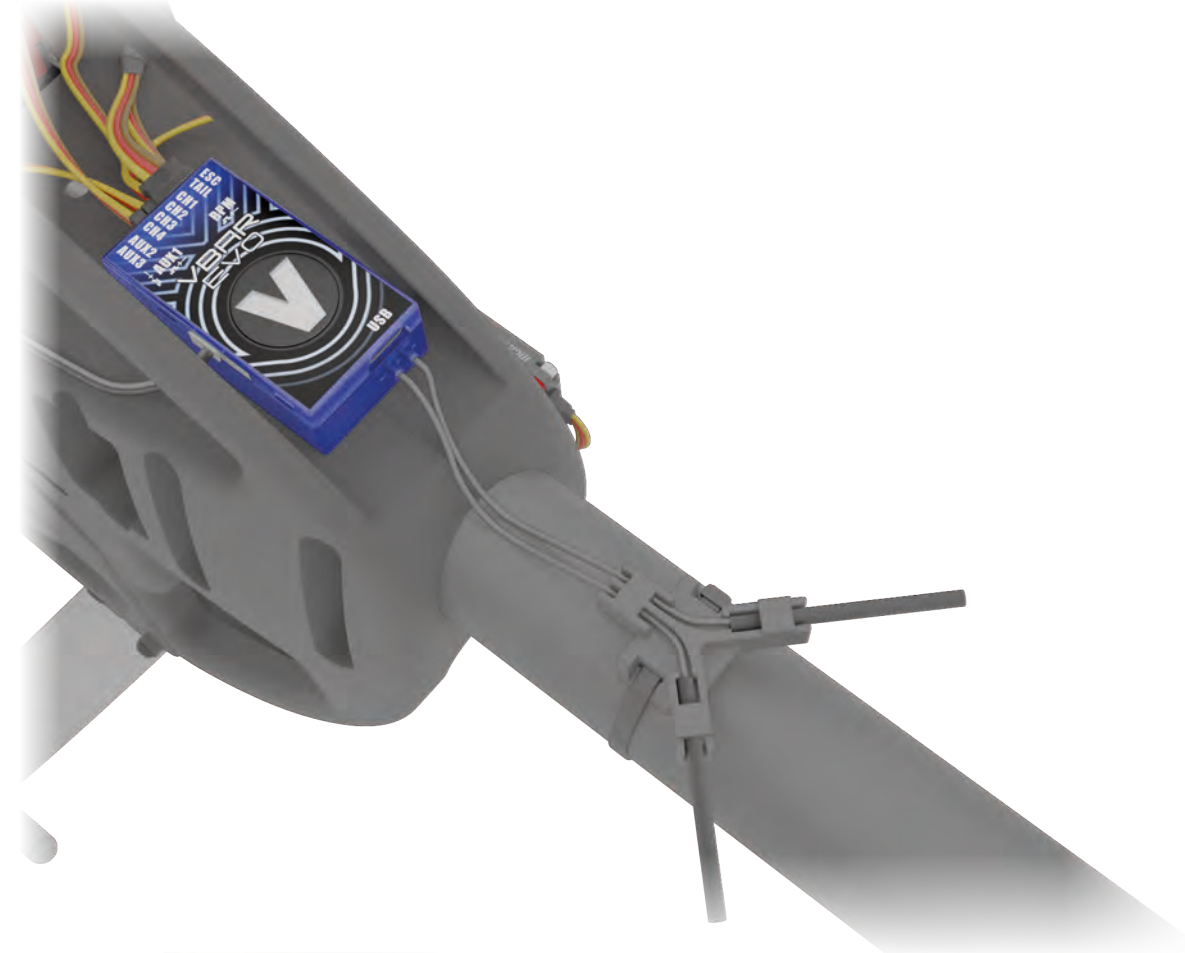
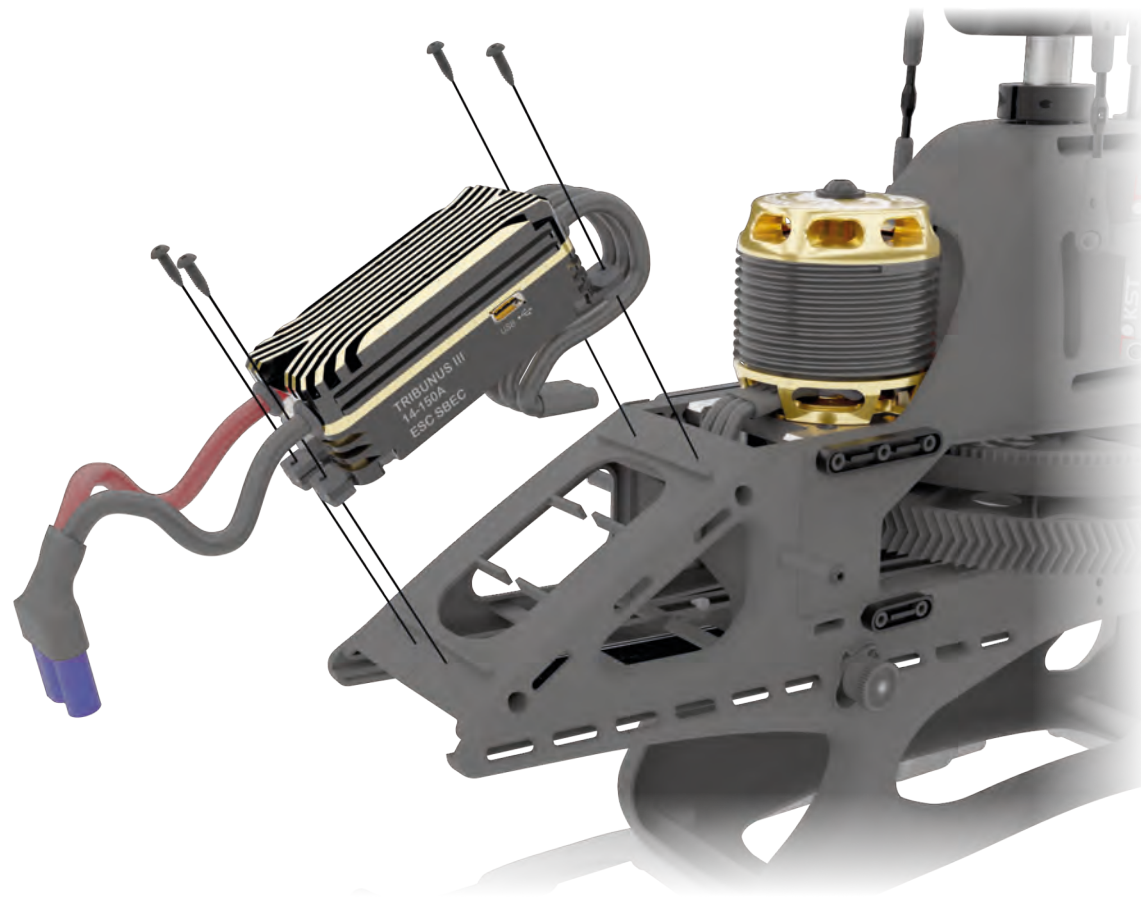


Anti Static Kit		
1x		M3x25L
2x		M3x20L
1x		M3x4L
2x		4,5x17
2x		3x5x4

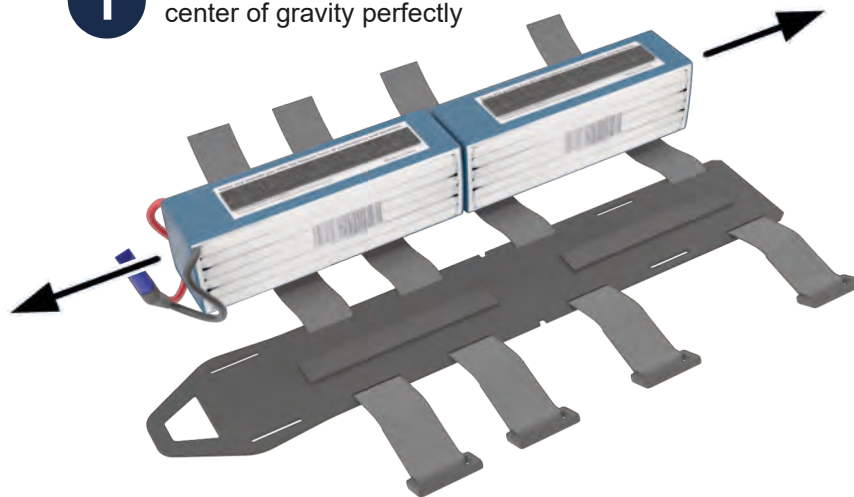
BEC/receiver battery: We highly recommend using a BEC or power supply that can provide two power leads to the receiver/RC components.

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.

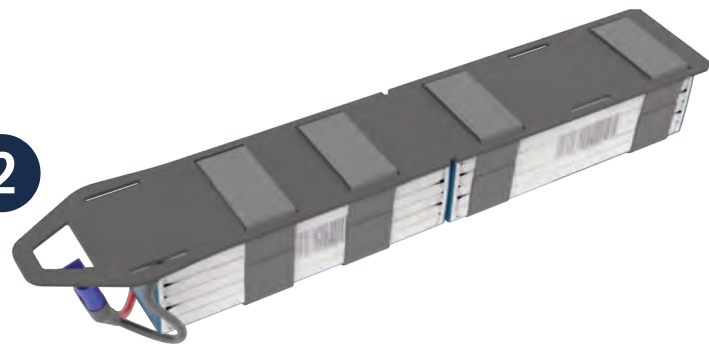
14 Mounting ESC / Battery



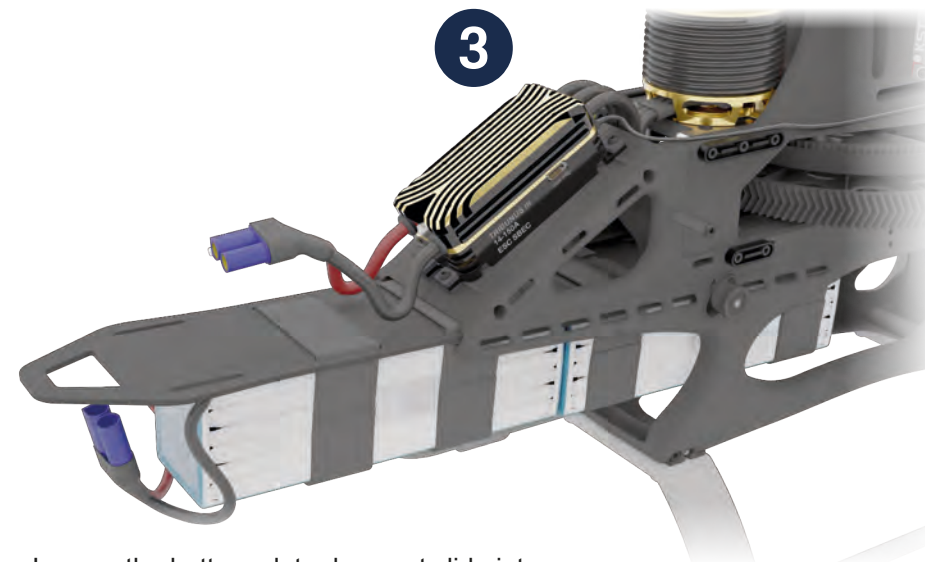
1 Shift battery to adjust the center of gravity perfectly



2

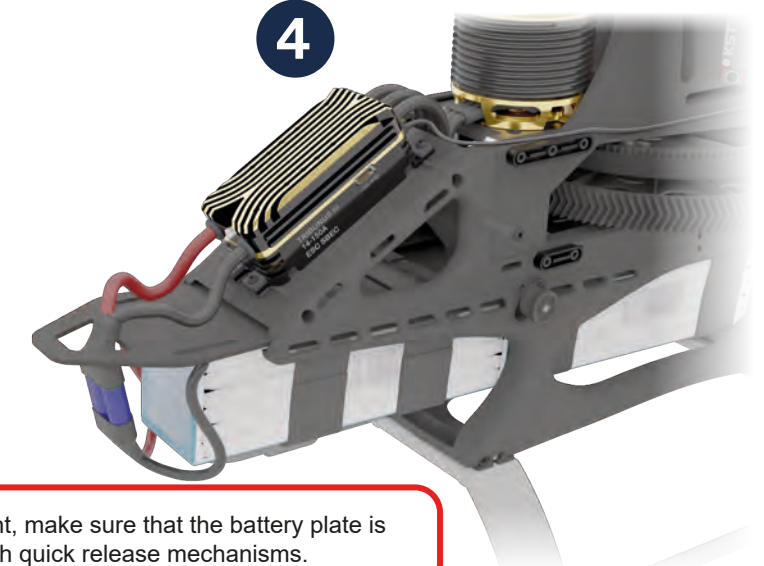


3



In case the battery plate does not slide into the chassis easily at first, please apply a small amount of silicone oil to the edges.

4

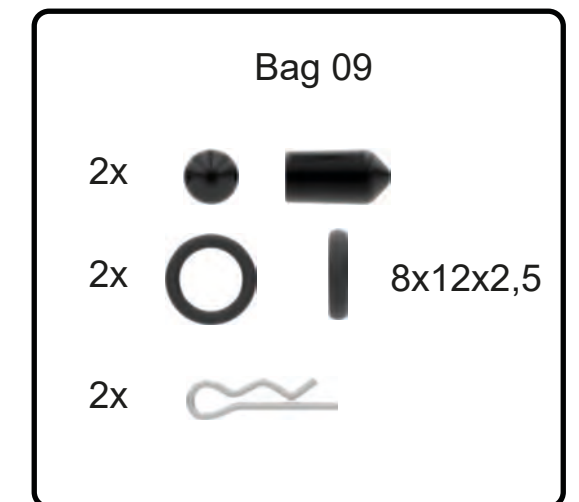


Before each flight, make sure that the battery plate is secured with both quick release mechanisms.

15 Canopy and Overview



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



The canopy of the LOGO 700 is held in place by three plus two attachment points. The two standoffs in the front plus the tongue below the front skid bow ensure that the canopy sits well on the chassis during flight, they have a guiding function. At the back, the canopy is fixated on an additional two standoffs by two rubber grommets. You will find an extra, high-quality set of rubber grommets included in the kit. You may use these if desired.

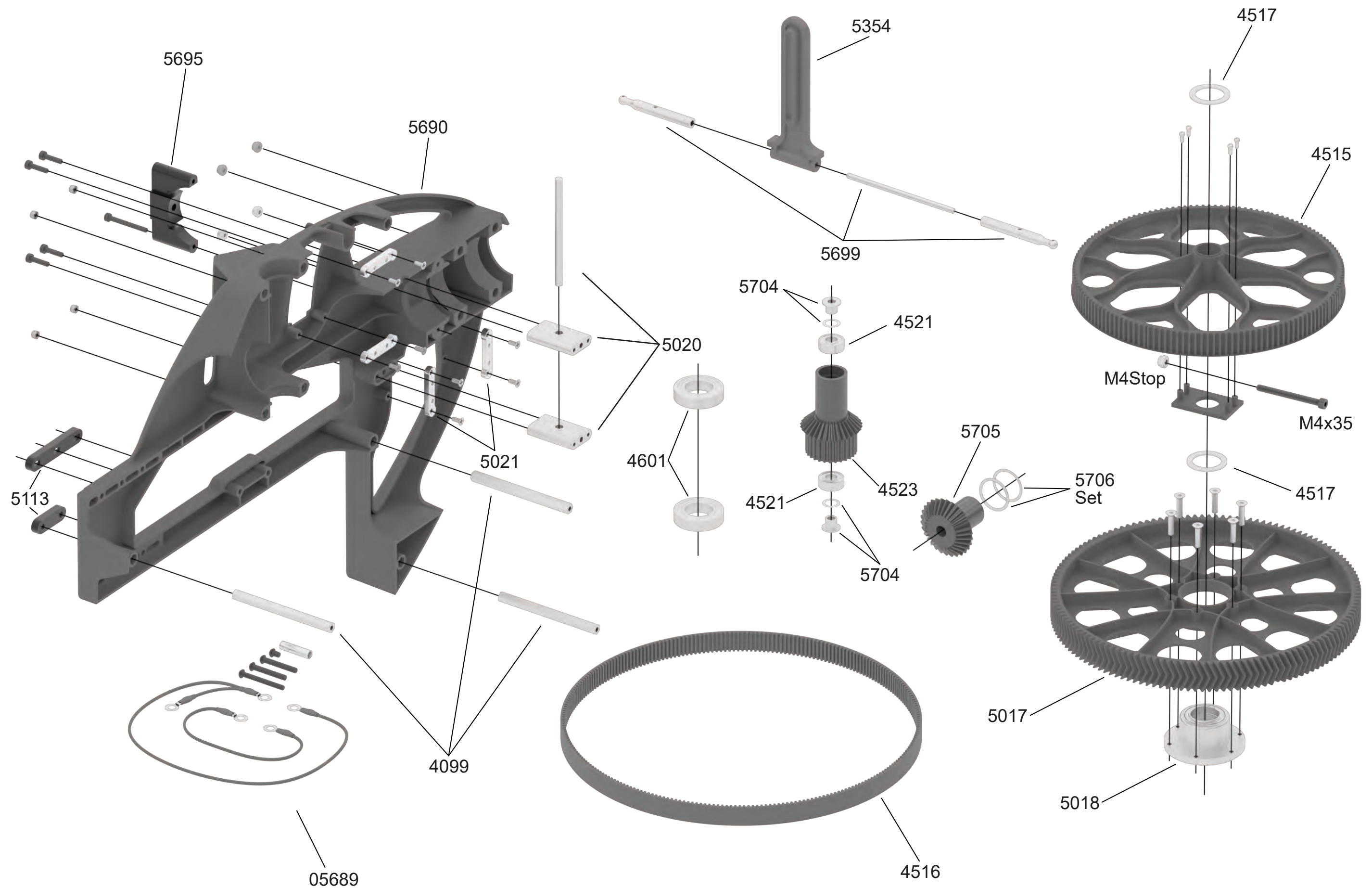
Important note: A special feature of the LOGO 700 canopy is that it the back part is fully closed. This back area is held close by two alignment pins and magnets. Take your time when mounting and dismounting the canopy. Use proper care when sliding the canopy past the main rotor shaft.

Before each flight, check that the canopy sits tightly. If the canopy sits loose, this can affect the flight performance of the helicopter. If the canopy becomes loose during flight, the helicopter may crash.

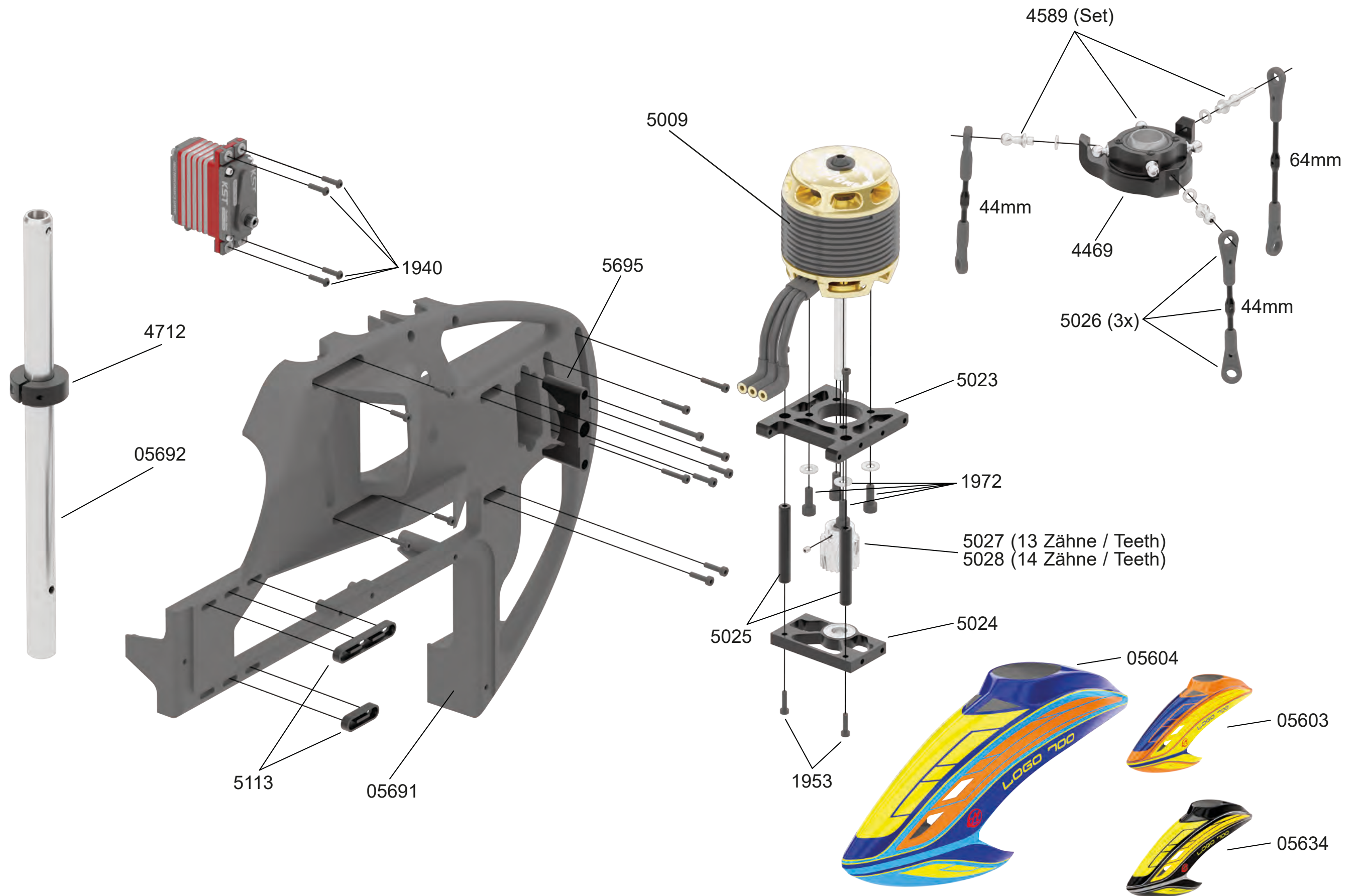
All LOGO 700 canopies are 100 % hand-made. Small irregularities in the surface, the airbrush design or color must be considered normal. They do not constitute a reason for complaint.



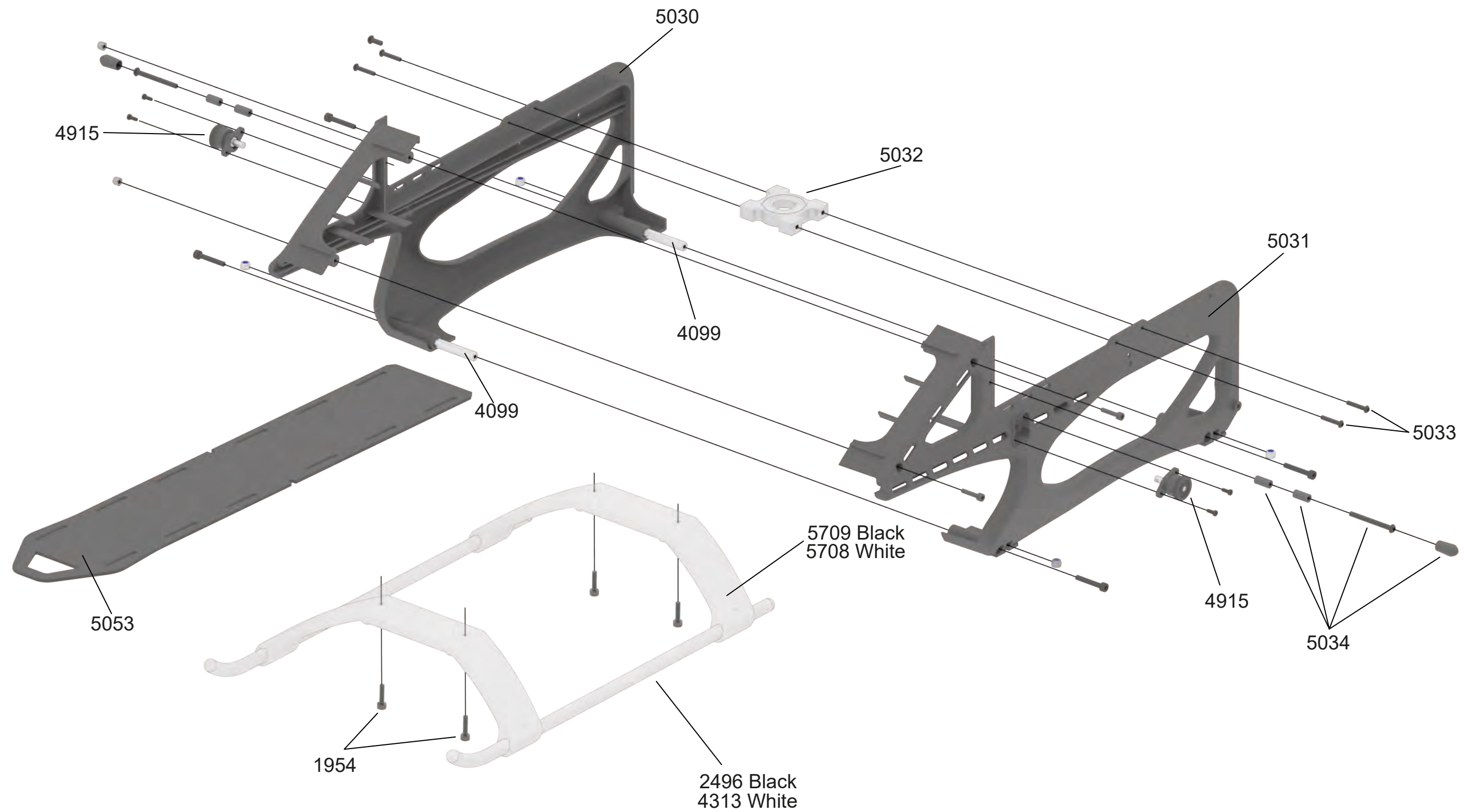
16 Overview Spare Parts Mainframe



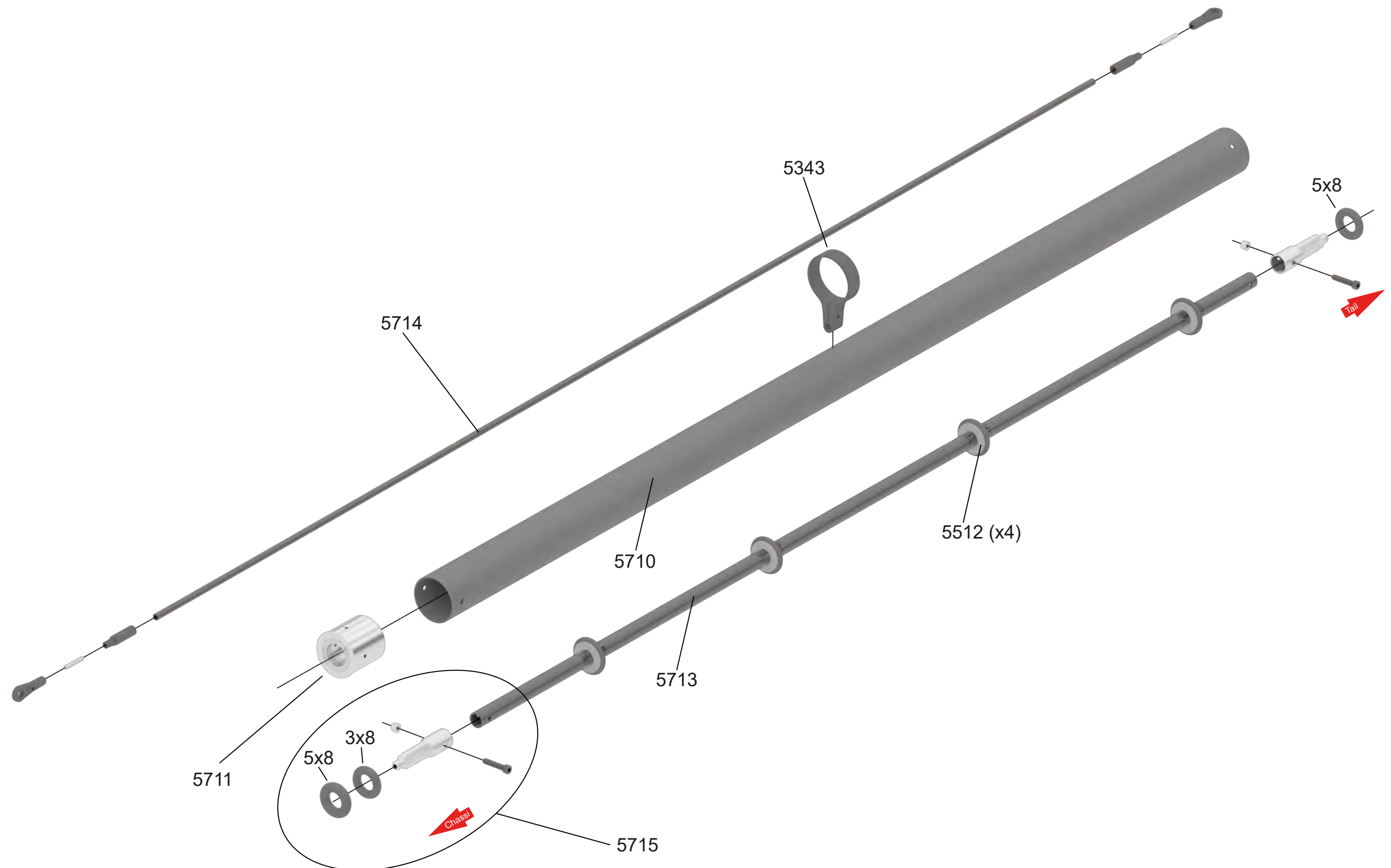
17 Overview Spare Parts Mainframe



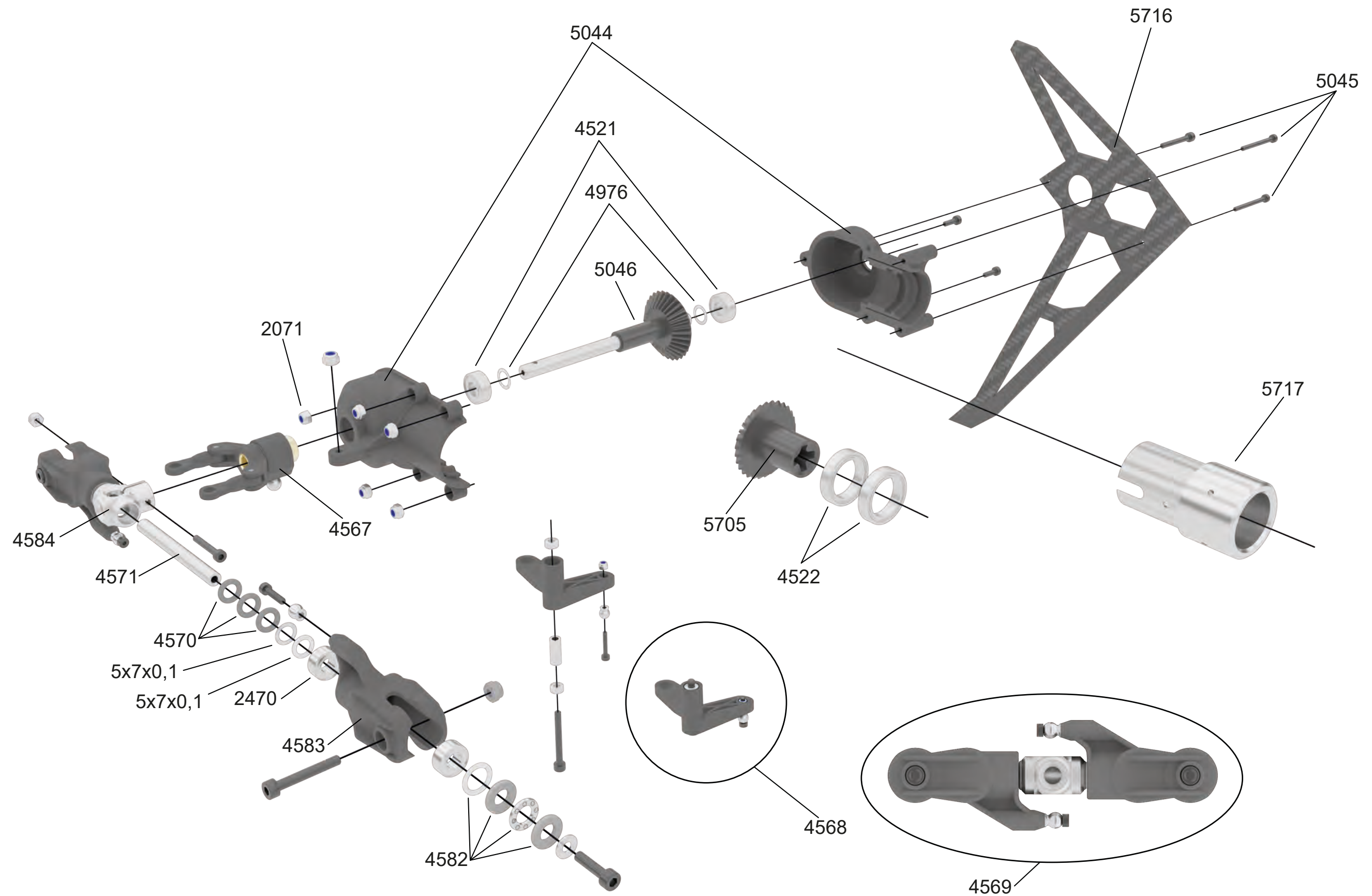
17 Overview Spare Parts Mainframe



18 Overview Spare Parts Tail Boom



18 Overview Spare Parts Tail Rotor



20 Overview Spare Parts Rotor Head

