

XZ POWER



NIMBUS

N I T R O V 2

M A N U A L



● Length Without Main Blades:	1148mm	● Tail Ratio:	4.615(5 Optional)
● Overall Height:	315mm	● Frame Weight:	1500g
● Width:	206mm	● Main Shaft Diameter:	10mm
● Main Gear:	170T	● Feathering Shaft Diameter:	8mm
● Pinion Gear:	22T (20T Optional)	● Tail Boom Diameter:	27mm
● Main Gear Ratio:	7.7(8.5 Optional)	● Tail Belt Width:	6mm
● Front Tail Pulley:	60T	● Main Gear Thickness:	10mm
● Rear Tail Pulley:	13T (12T Optional)	● Fuel tank:	345cc

If you do not observe these instructions, you may be held liable for injury or damage.

Operate the helicopter in open areas with no people nearby. Do NOT operate the helicopter in these situations or areas:

In places where children gather or people pass through

In residential areas and parks

Indoors and in limited space

Extremely windy weather or when there is rain, snow, fog or other precipitation

When operating and tuning/adjusting your model, keep the following in mind:

ALWAYS check radio control system for proper operation before operating the model.

ALWAYS check radio control system power levels before operating the model. Flying with low transmitter or receiver battery may cause loss of control.

ALWAYS pay attention to your surroundings, and look out for others who are also operating a radio control model nearby.

ALWAYS check that all screws are tight and not coming loose before flying the model. A single loose screw on the model may cause a major accident.

ALWAYS perform necessary maintenance and preflight checks to keep the helicopter in a good and safe flying condition.

NEVER use the same control frequency as someone else. Doing so may cause interference or loss of control of the model.

NEVER continue flying if the model is displaying irregular behavior or noises. Bring the model to a halt immediately and disconnect the batteries.

NEVER fly the model with known broken or defective parts. Always replace damaged parts before attempting to fly again.

NEVER approach the model while the rotors are still spinning. Doing so can result in serious personal injury.

NEVER touch the motor immediately after flying. It may be hot enough to cause moderate burns.

Operate only outdoors and out of bystanders reach, as the main rotor operates at high rpm and is very dangerous.

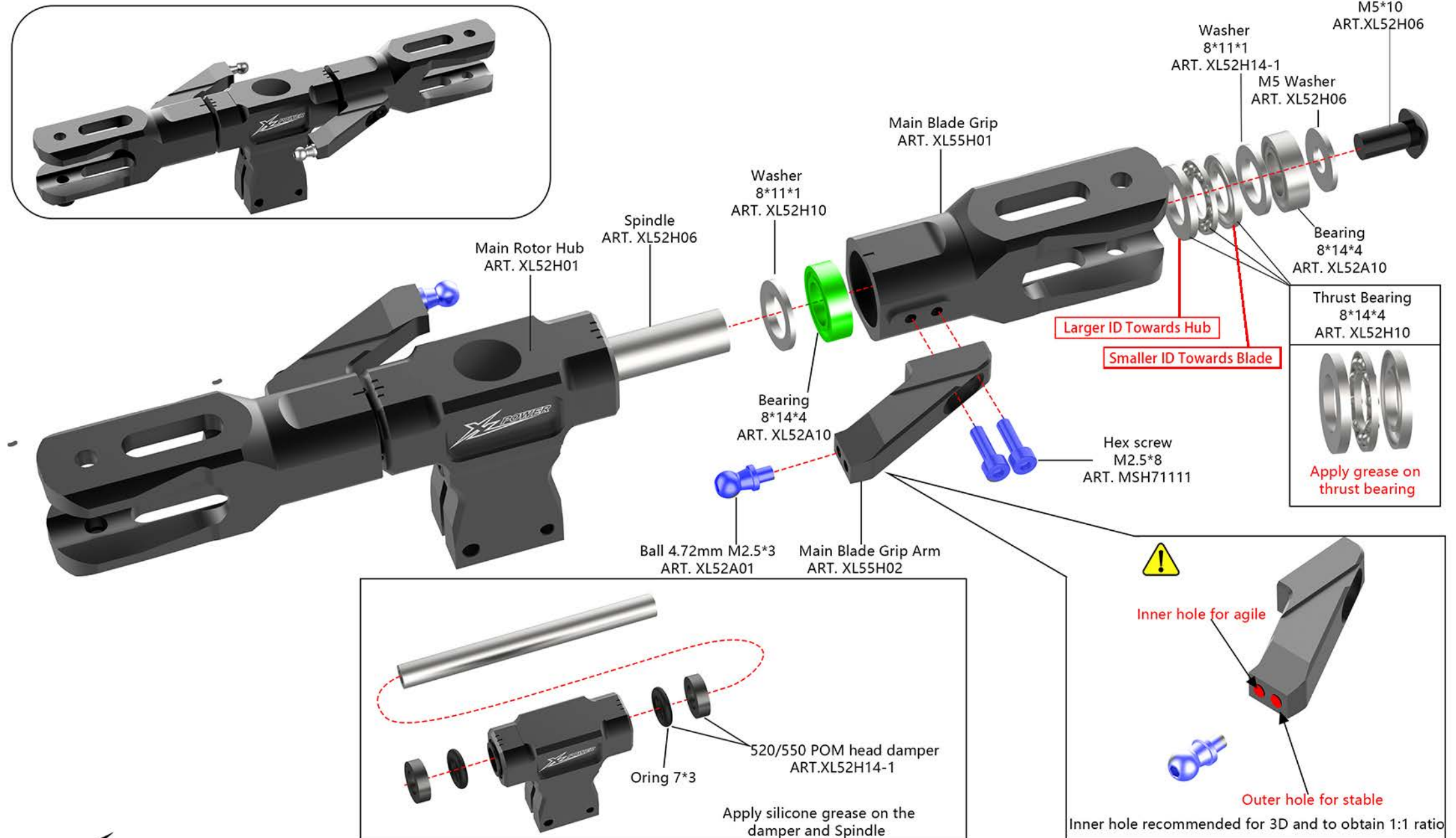
While adjusting and testing, pilots and observers should stand at least 10 meters from the model.

Novice pilots should be assisted by an experienced pilot and never fly alone!

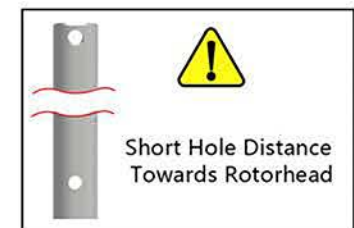
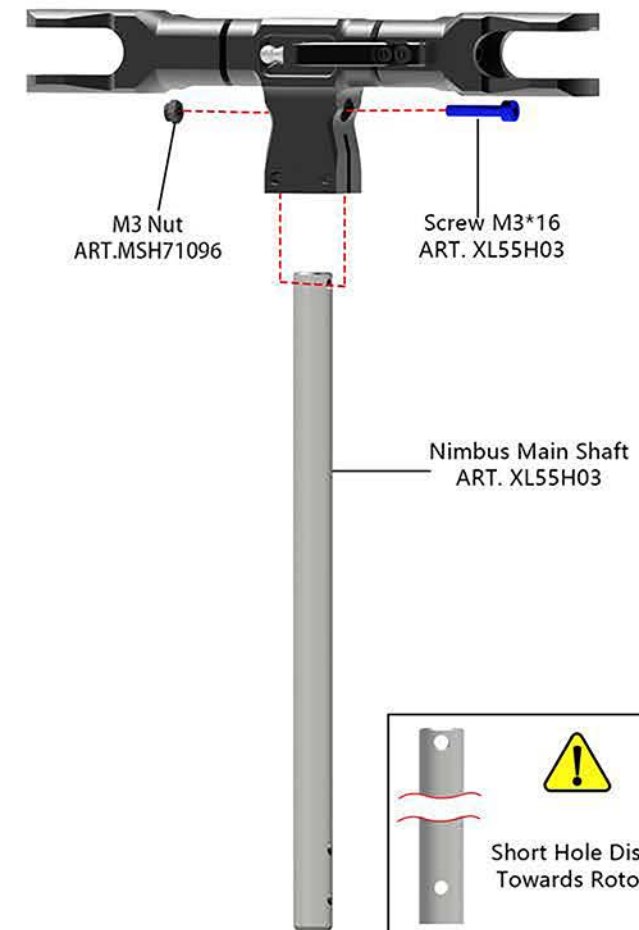
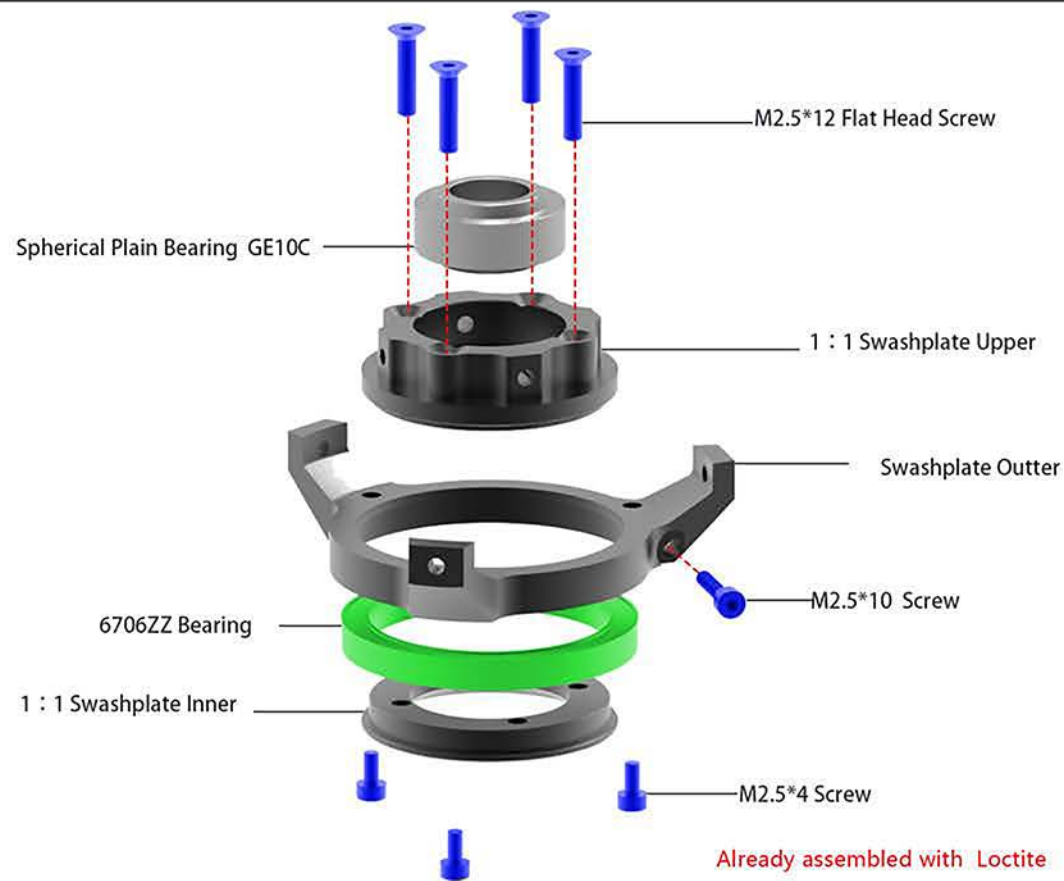
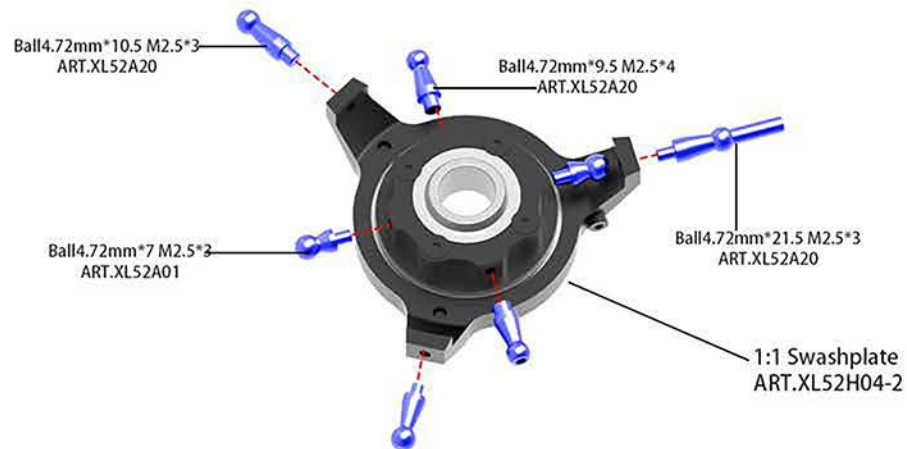
NIMBUS SS0 NITRO V2 EQUIPMENT REQUIRED FOR ASSEMBLY

Swashplate Servos: Standard Size(Qty. 3)	Engine: 50-60 Glow/Nitro Fuel Engine	Hex Screwdriver Sizes: 1.5mm 2mm*2 2.5mm 3mm*2 4mm
Tail Servo STD (Qty 1) Throttle Servo STD or Mini (Qty 1)	Main Blades: Carbon Fiber 550-580MM	  Where indicated, use Thread lock MEDIUM
Trasmitter Receiver/Satellites Flybarless Unit	Tail blades: Carbon Fiber 86-95MM	  Wicking compound bearing retainer
Battery Pack (Typical): 2S 1500mah-2200mah	Exhaust: Appropriate muffler for engine brand\type	Thrust Bearing Grease Pitch Gauge Up to 17mm crescent wrench

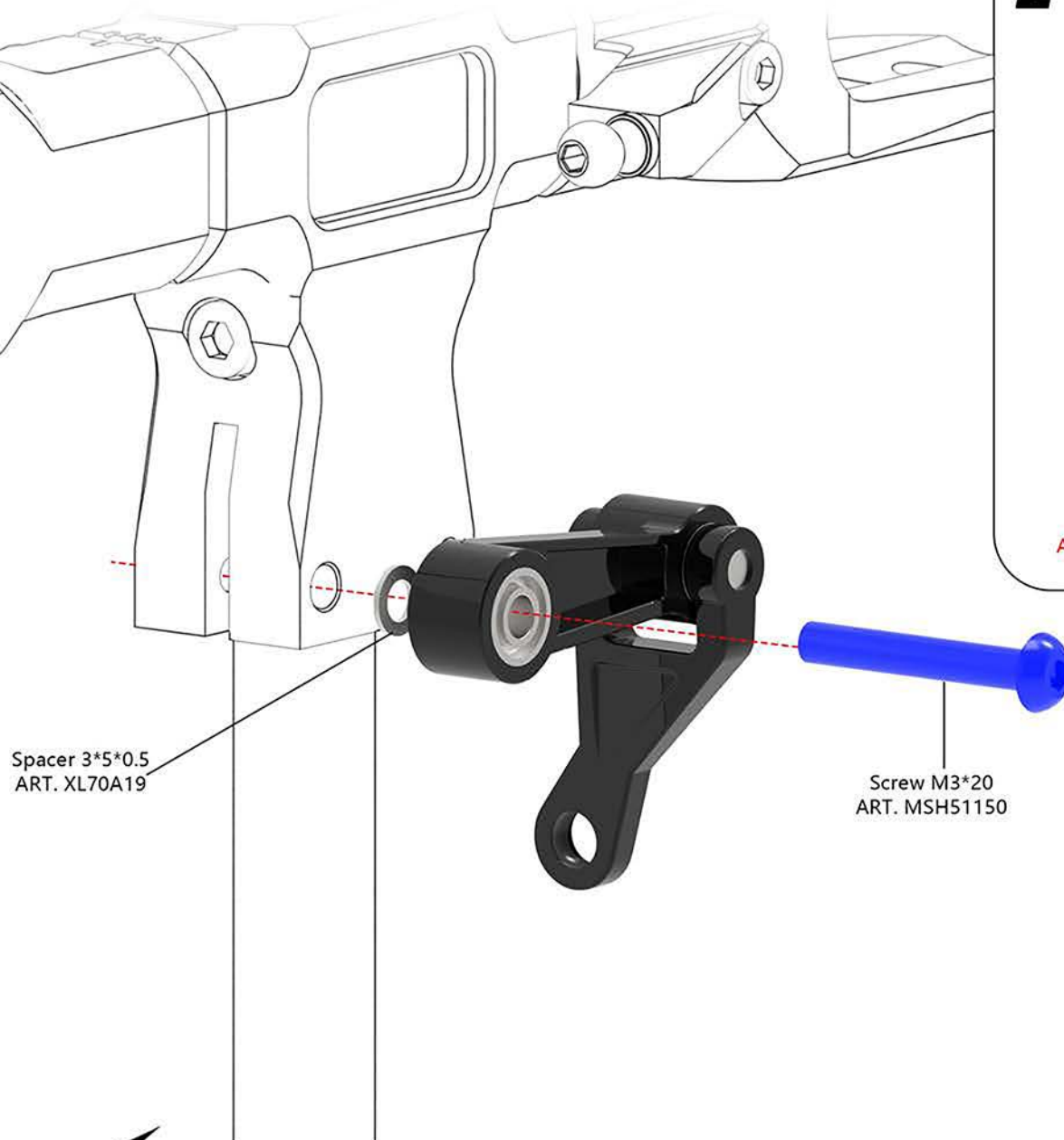
Bag1



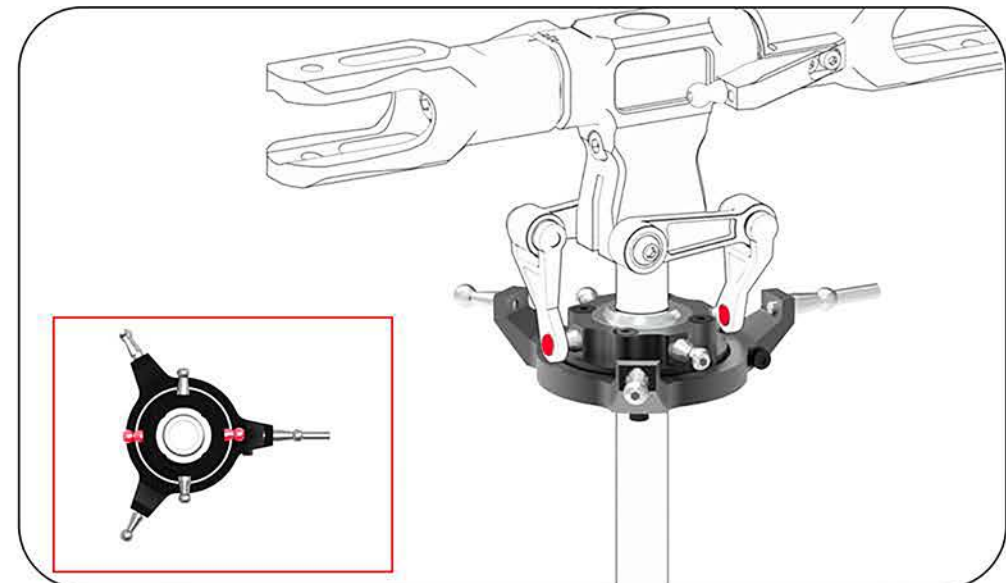
Bag1 + Bag2



bag1

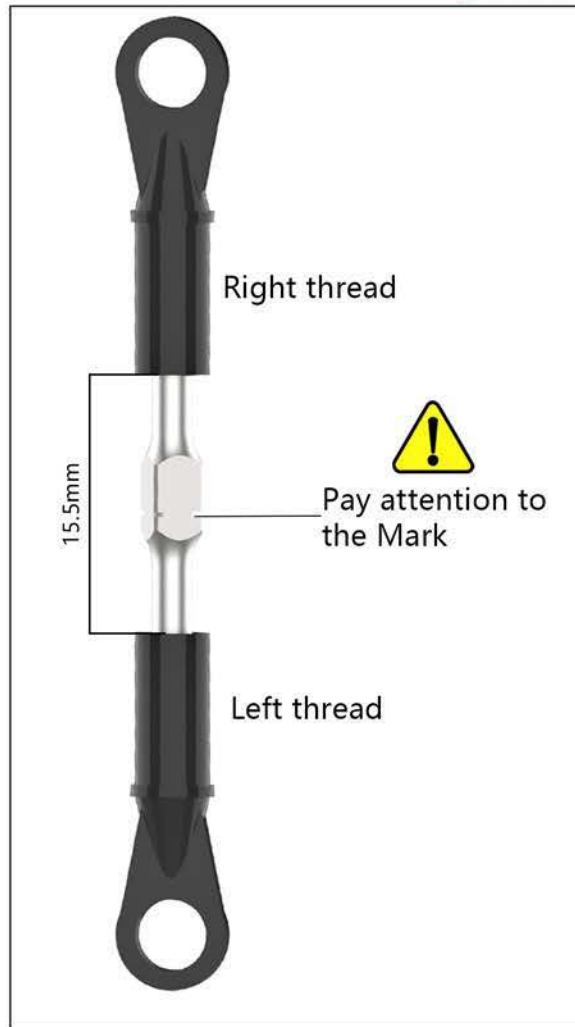


2x



Bag1

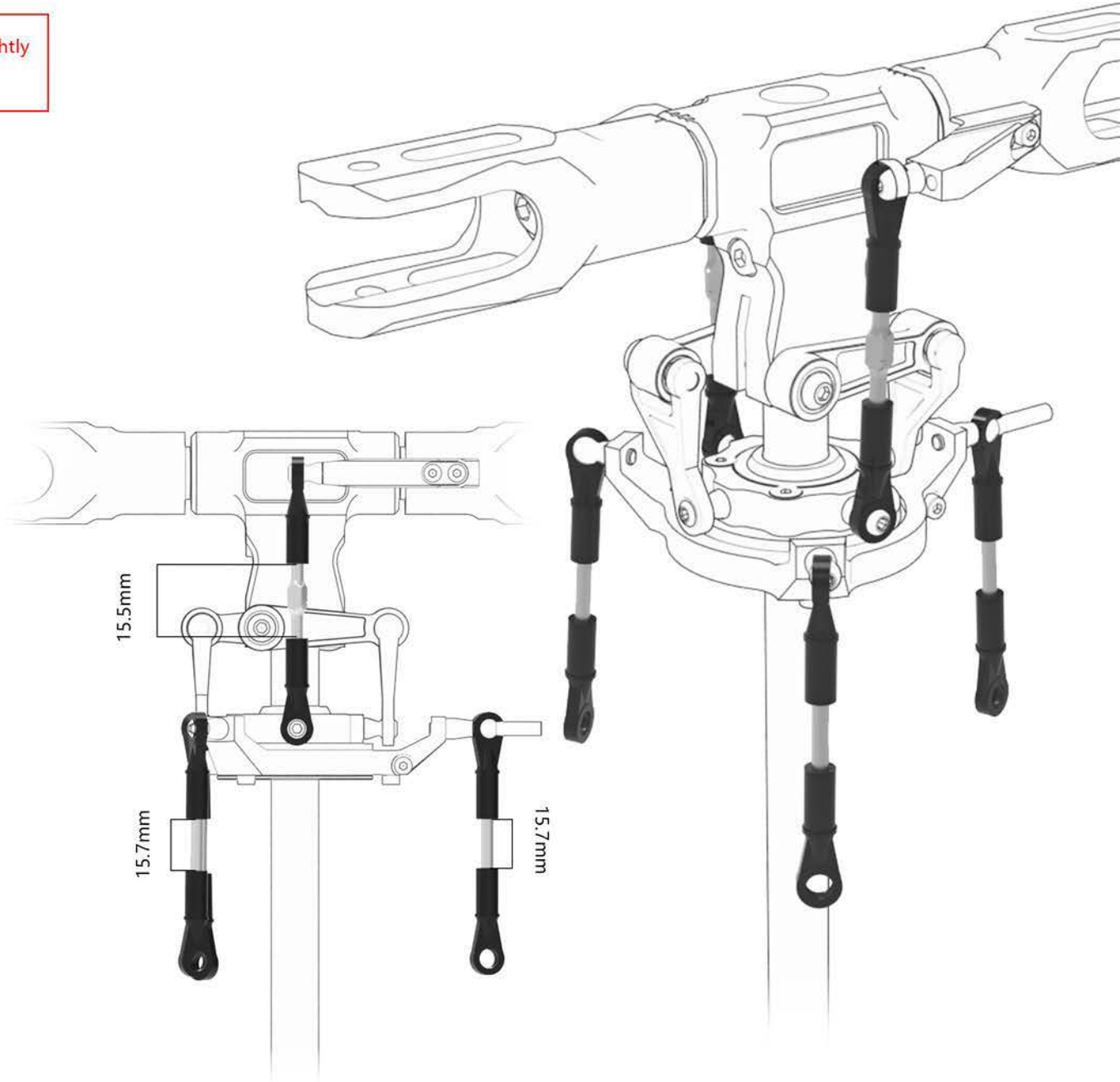
Servo rod length may differ slightly
with diferent servo brands



Main Rotor Linkage
ART. XL52H12

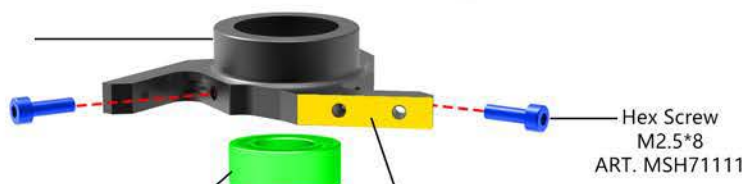


Servo Rod
ART. XL52H13



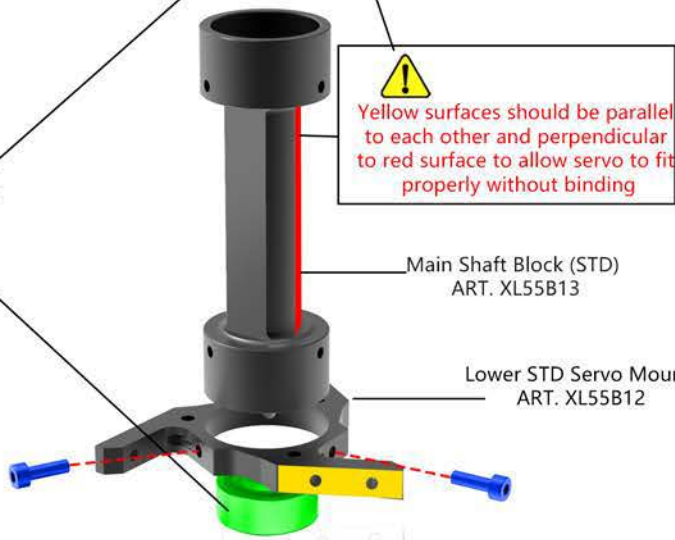
Bag3

Upper STD Servo Mount
ART.XL55B11



Hex Screw
M2.5*8
ART. MSH71111

Double Row Angular Contact
Ball Bearing 10*19*7
ART. XL70H04



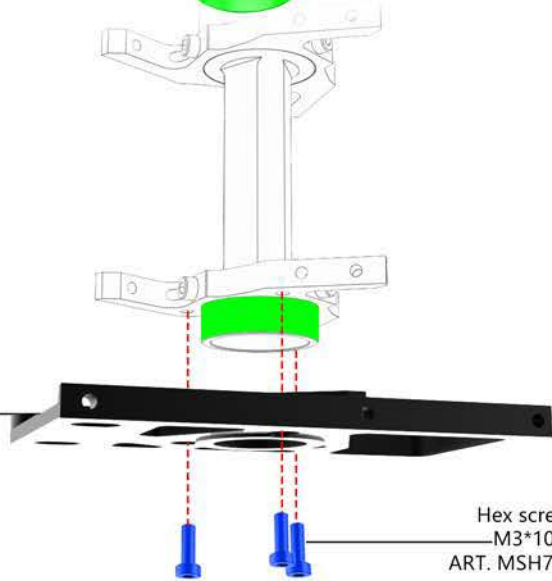
! Yellow surfaces should be parallel to each other and perpendicular to red surface to allow servo to fit properly without binding

Main Shaft Block (STD)
ART. XL55B13

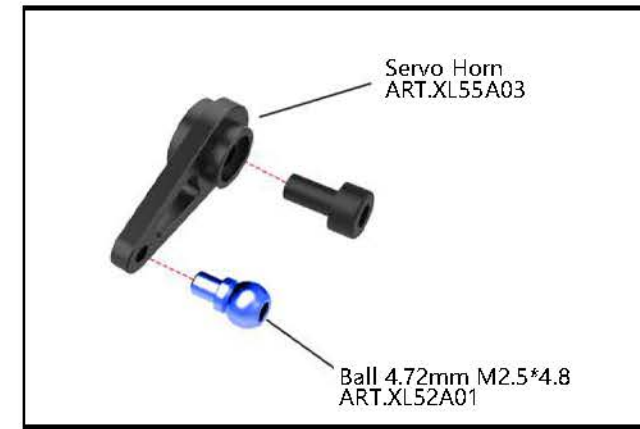
Lower STD Servo Mount
ART. XL55B12



Center Plate
ART.XL55B14



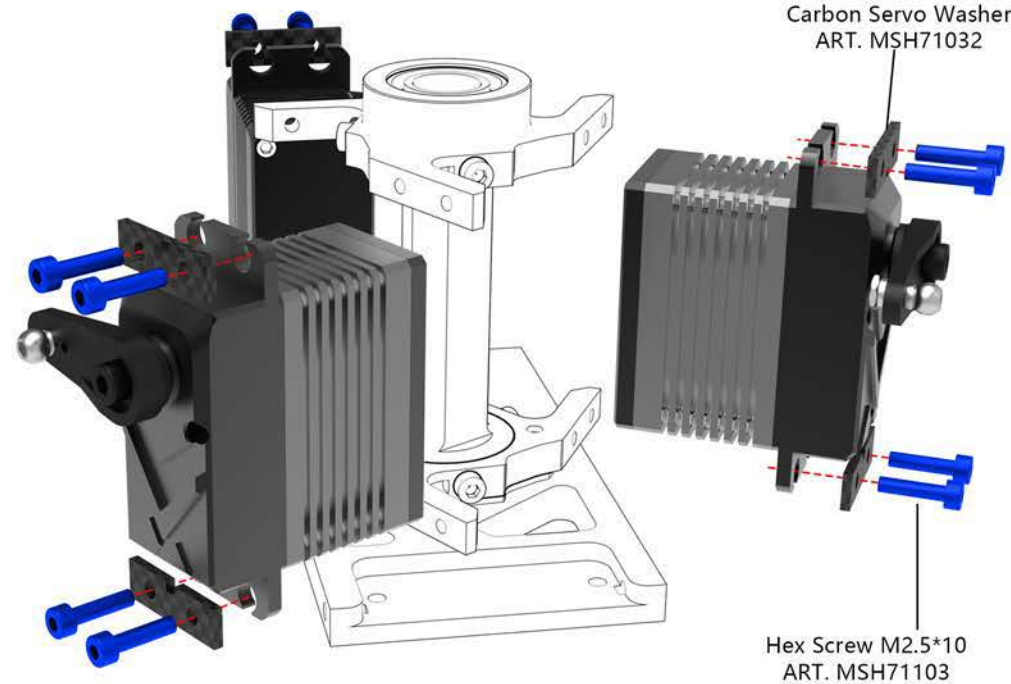
Hex screw
M3*10
ART. MSH71099



Servo Horn
ART.XL55A03

Ball 4.72mm M2.5*4.8
ART.XL52A01

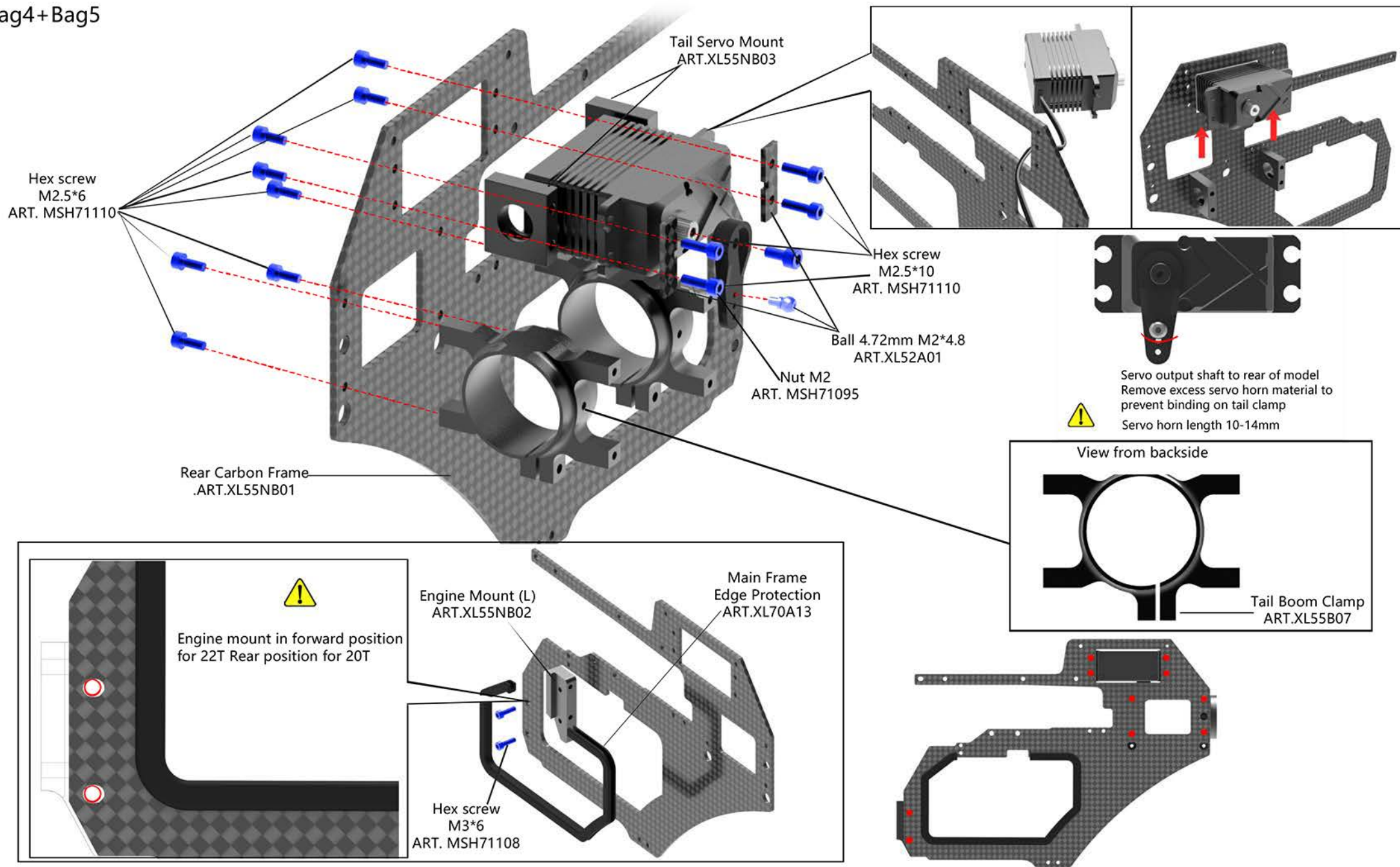
15-17mm



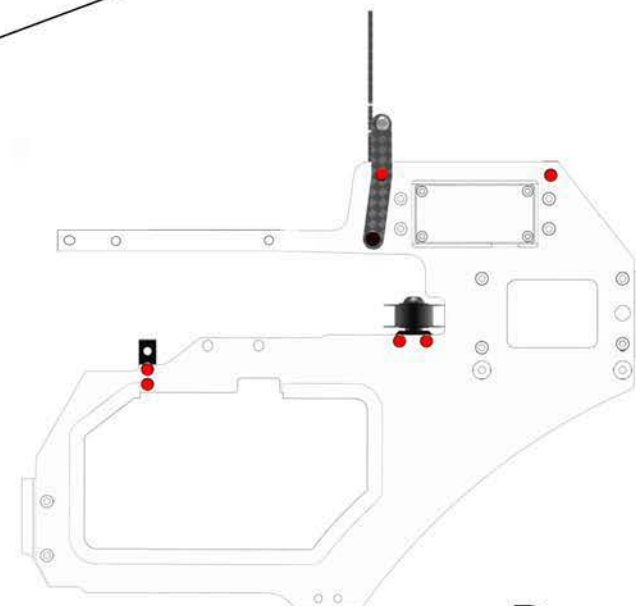
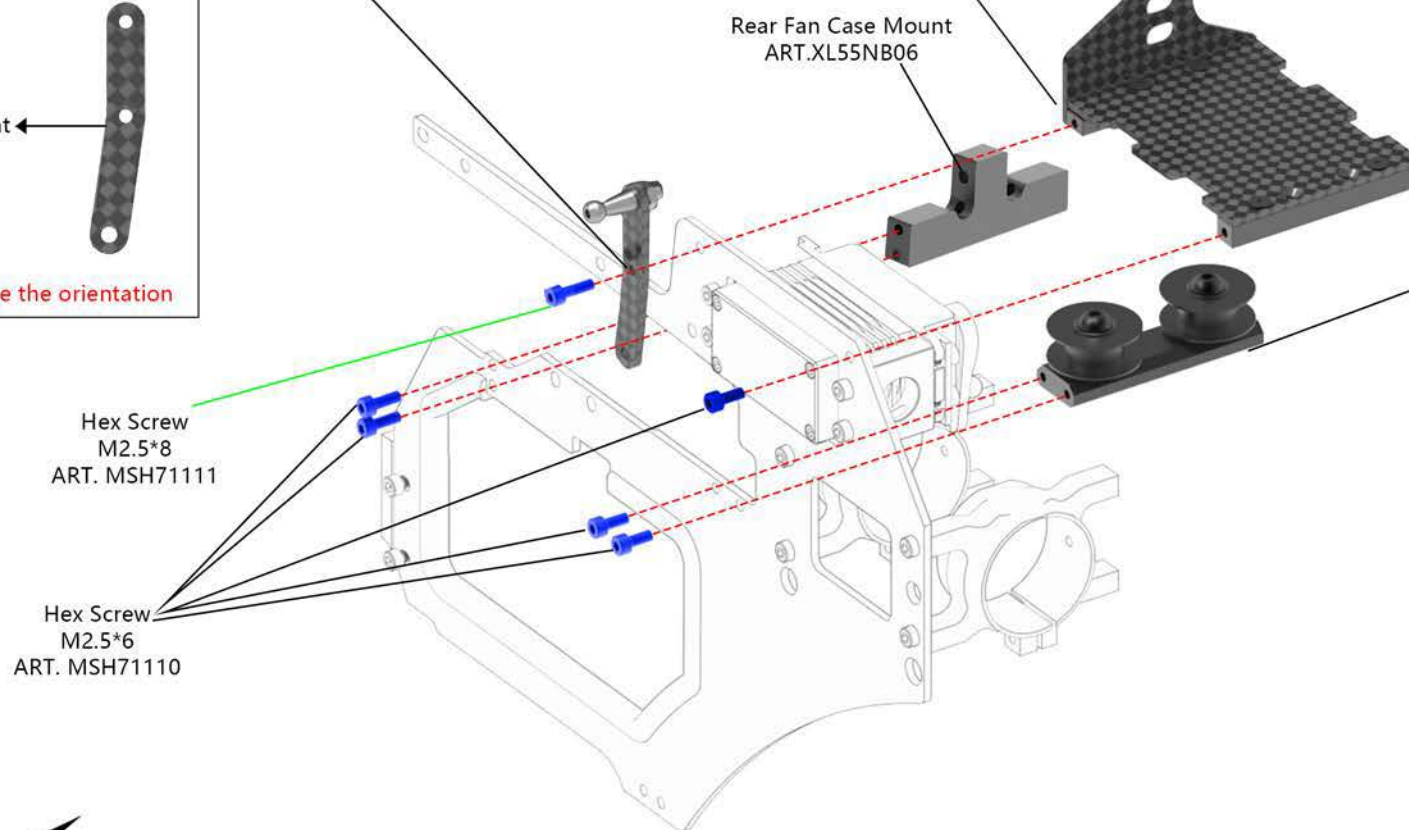
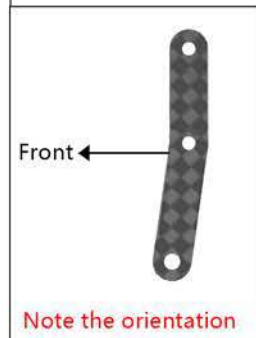
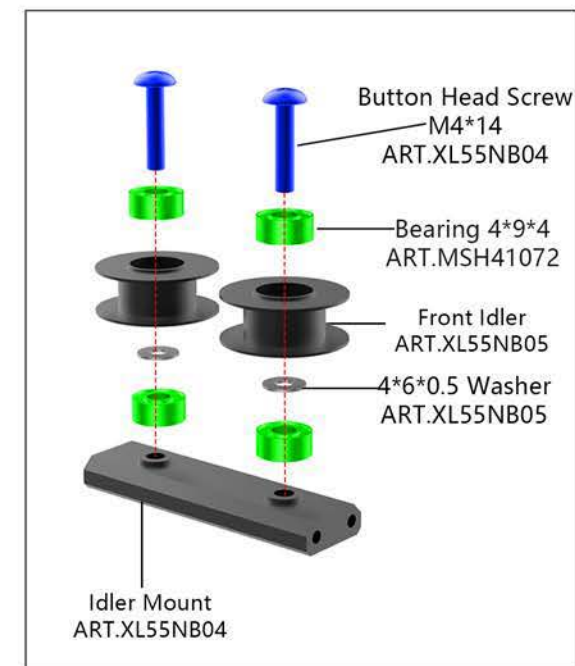
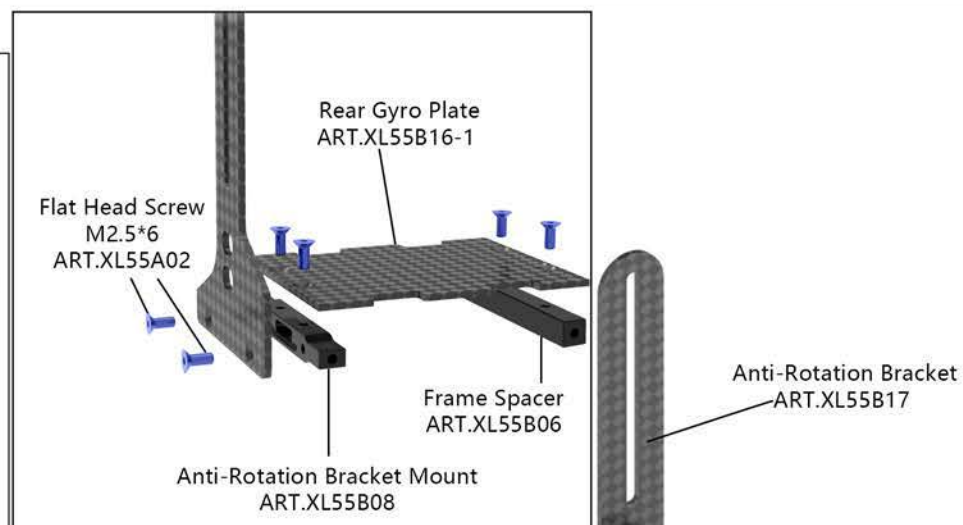
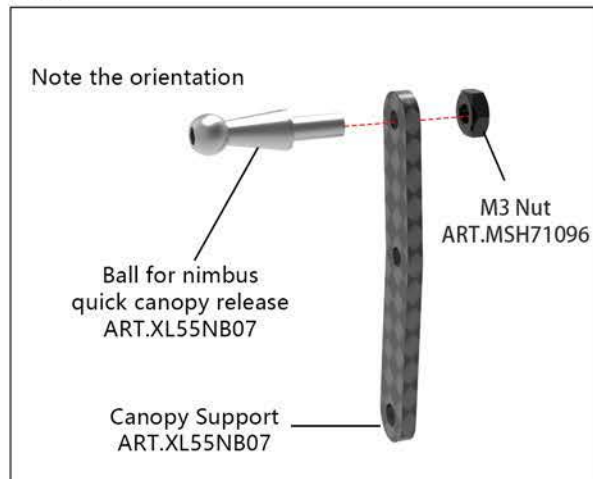
Carbon Servo Washer
ART. MSH71032

Hex Screw M2.5*10
ART. MSH71103

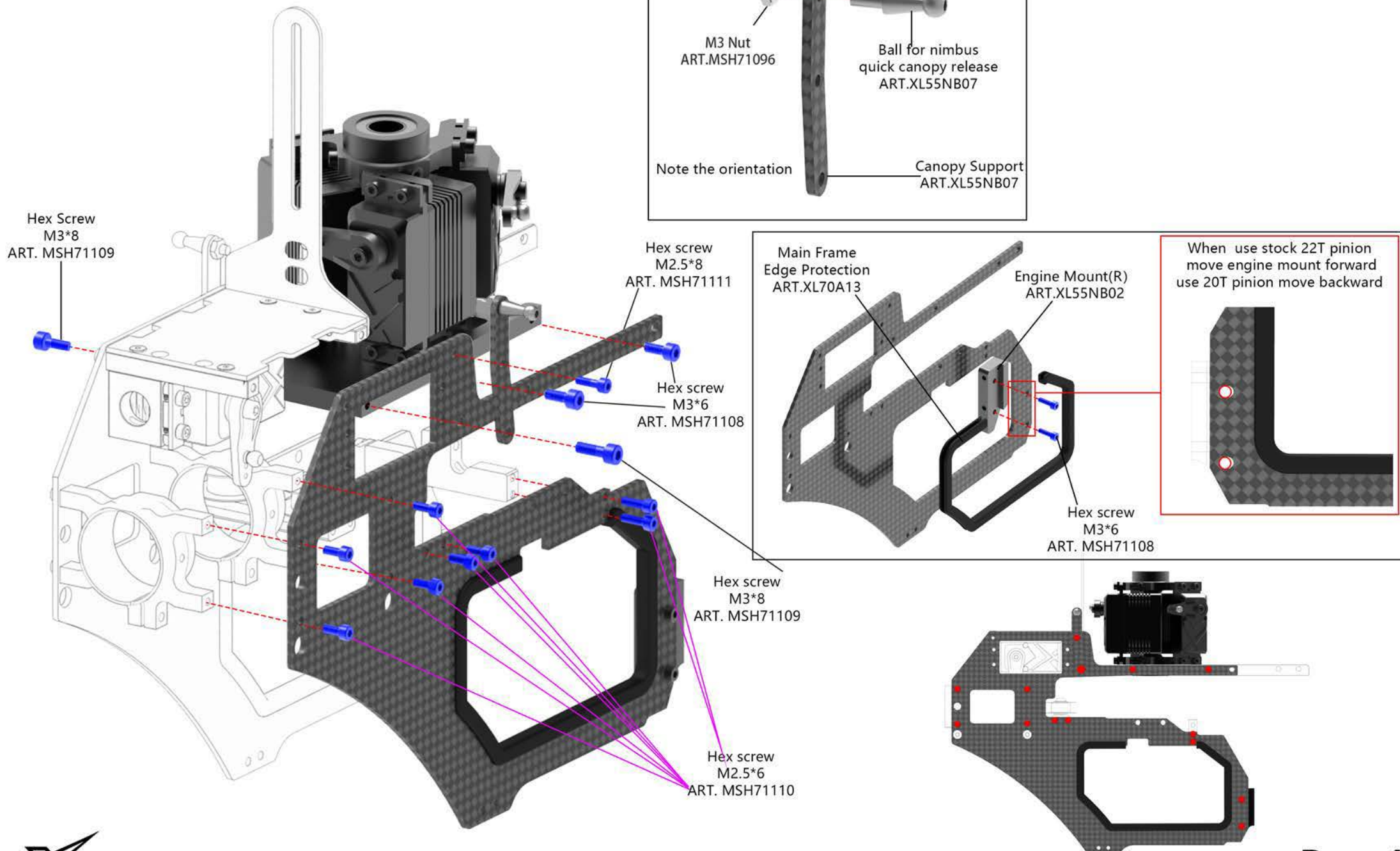
Bag4 + Bag5



Bag5



Bag4+ Bag5



Bag6



Crank Shaft Tool
ART.XL55NA01



Insert crank shaft tool into
clutch bell to align liner in the
clutch bell until epoxy is dry

Use J-B WELD EPOXY glue clutch liner be sure that no epoxy is
pressed out of the bottom of the liner coat the bell lightly

Clutch Liner
ART.XL55NB08

Bearing 8*16*5
ART.XL70A16

Clutch Bell
ART.XL55NB09

3801 Double Row Angular
Contact Ball Bearing
ART.XL55NA02

22T Motor Pinion
ART.XL55NB11
Optional:
20T Motor Pinion
ART.XL55NB11-1

HK0810 Roller Bearing
ART.XL55NA03

N pole(CA GLUE)

N pole(CA GLUE)

Magnet for governor
ART.XL70NB03-1

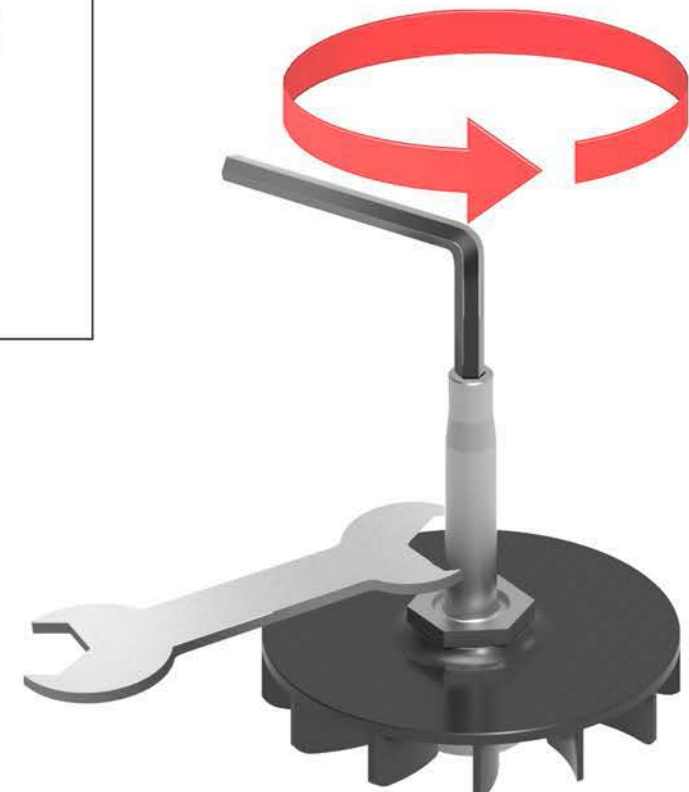
Lower Clutch Bell
Bearing Block
ART.XL55NB10

Flat screw
M2.5*6
ART.XL55A02

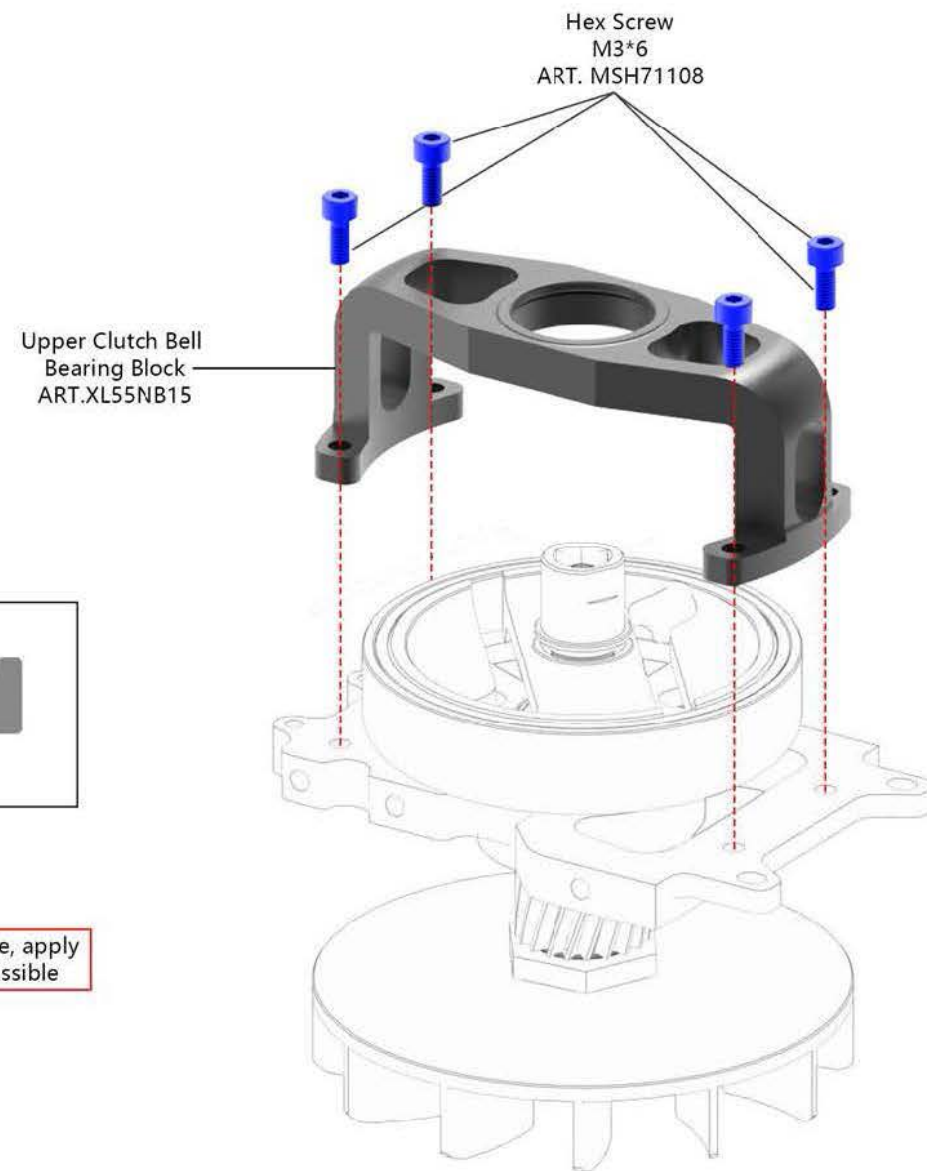
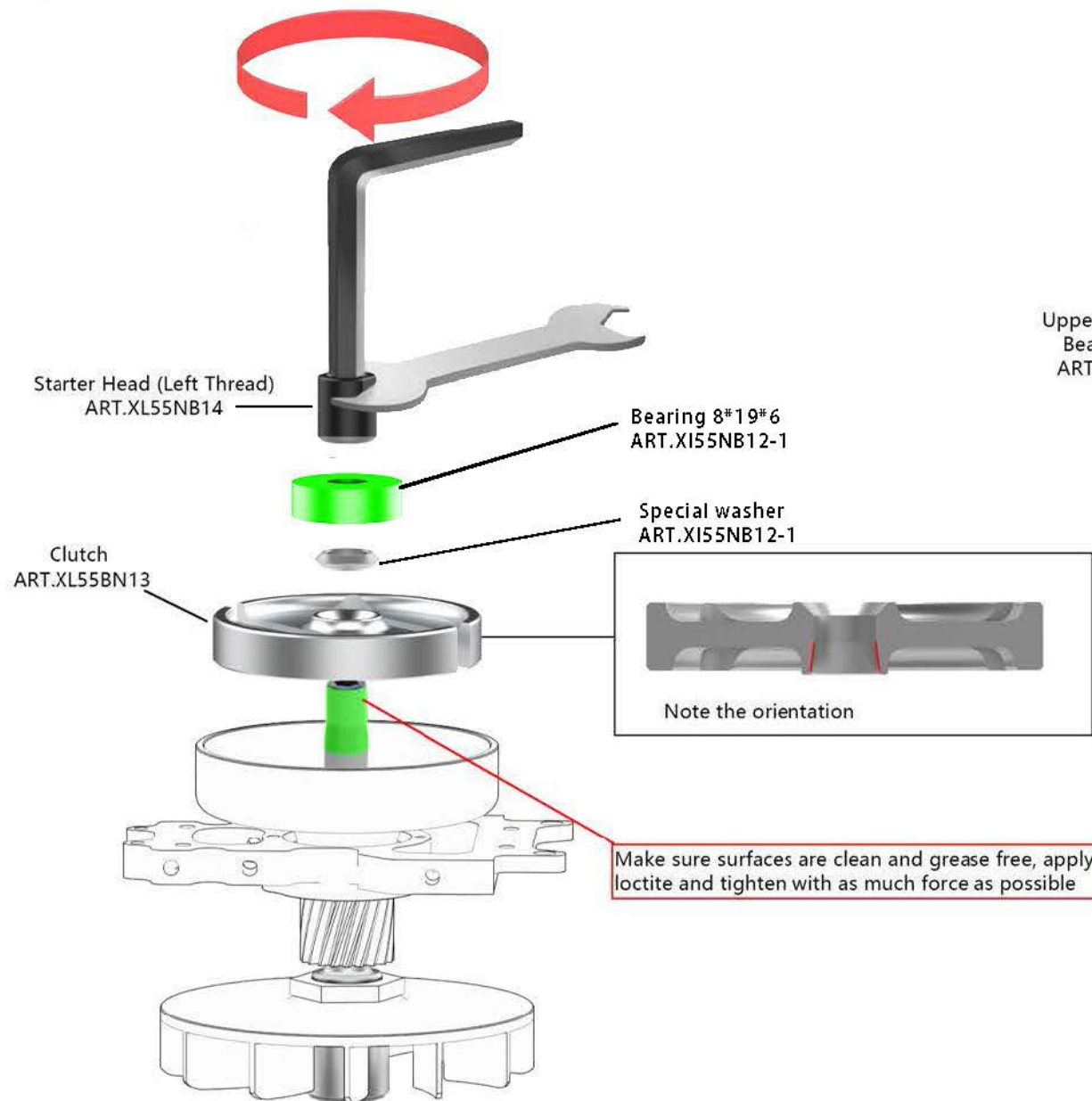
M12 Nut
ART.XL70V2NA03

Fan
ART.XL70V2NB19

Engine shaft V2
ART.XI55NB12-1



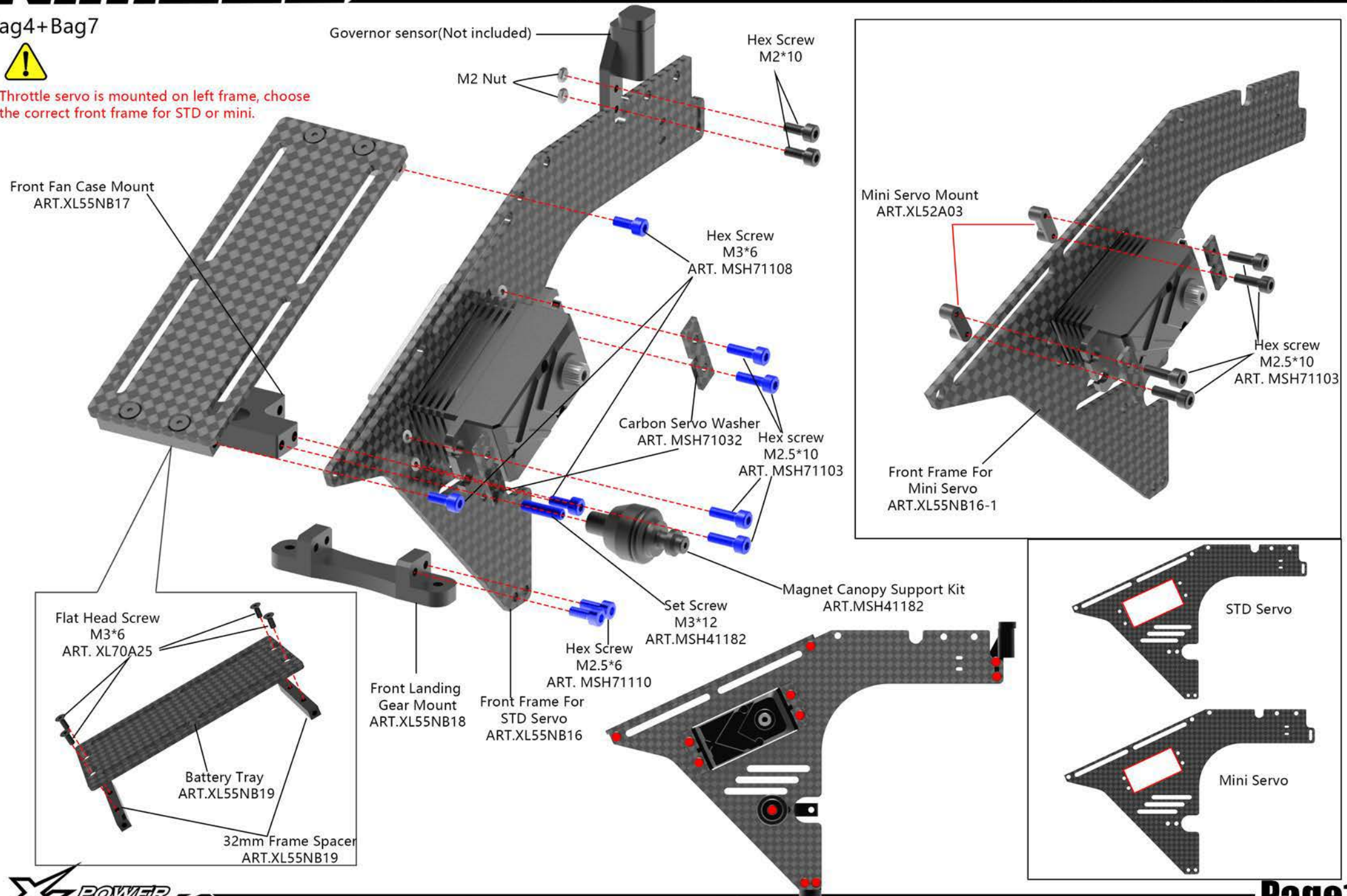
Bag6



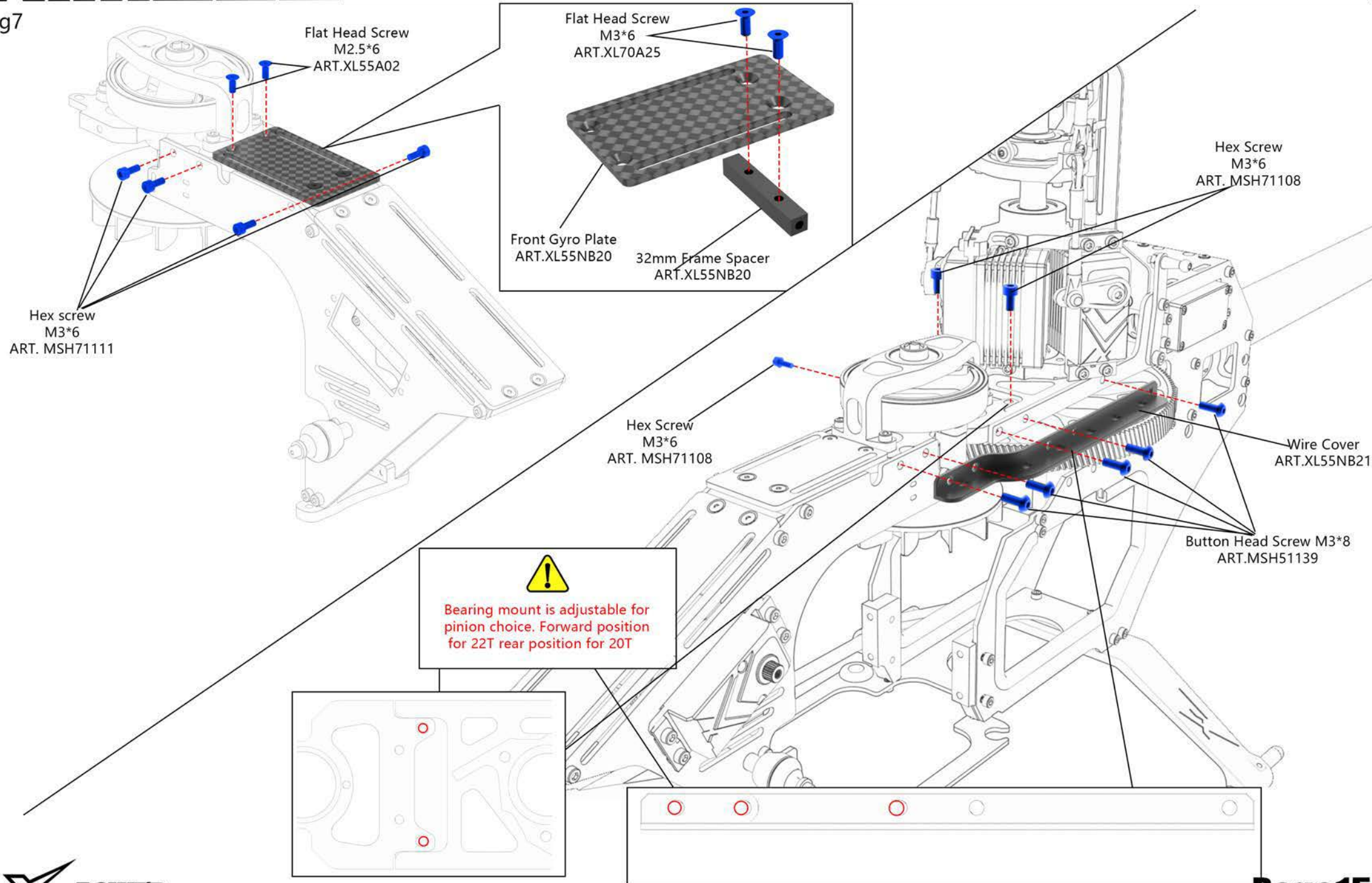
Bag4+ Bag7



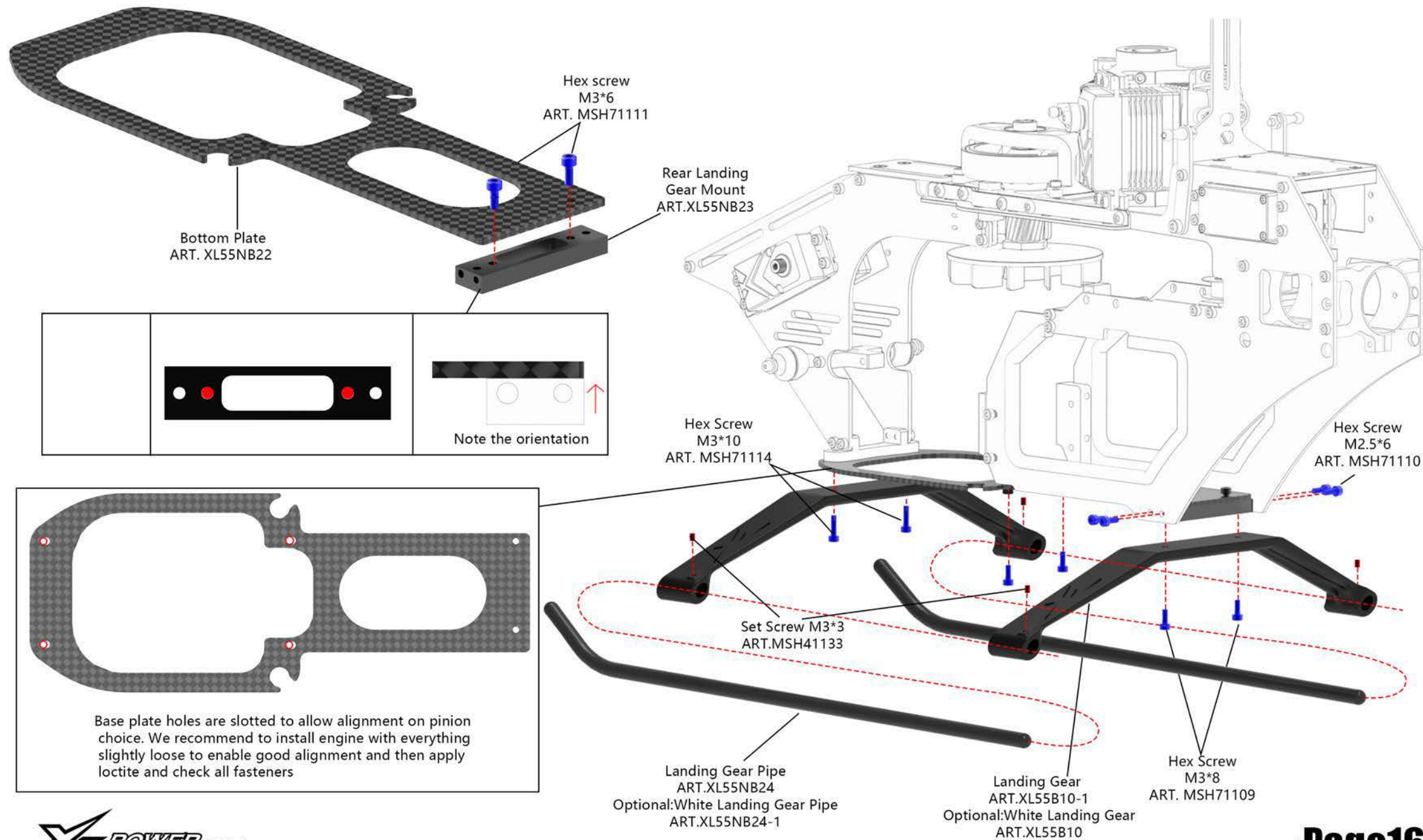
Throttle servo is mounted on left frame, choose the correct front frame for STD or mini.

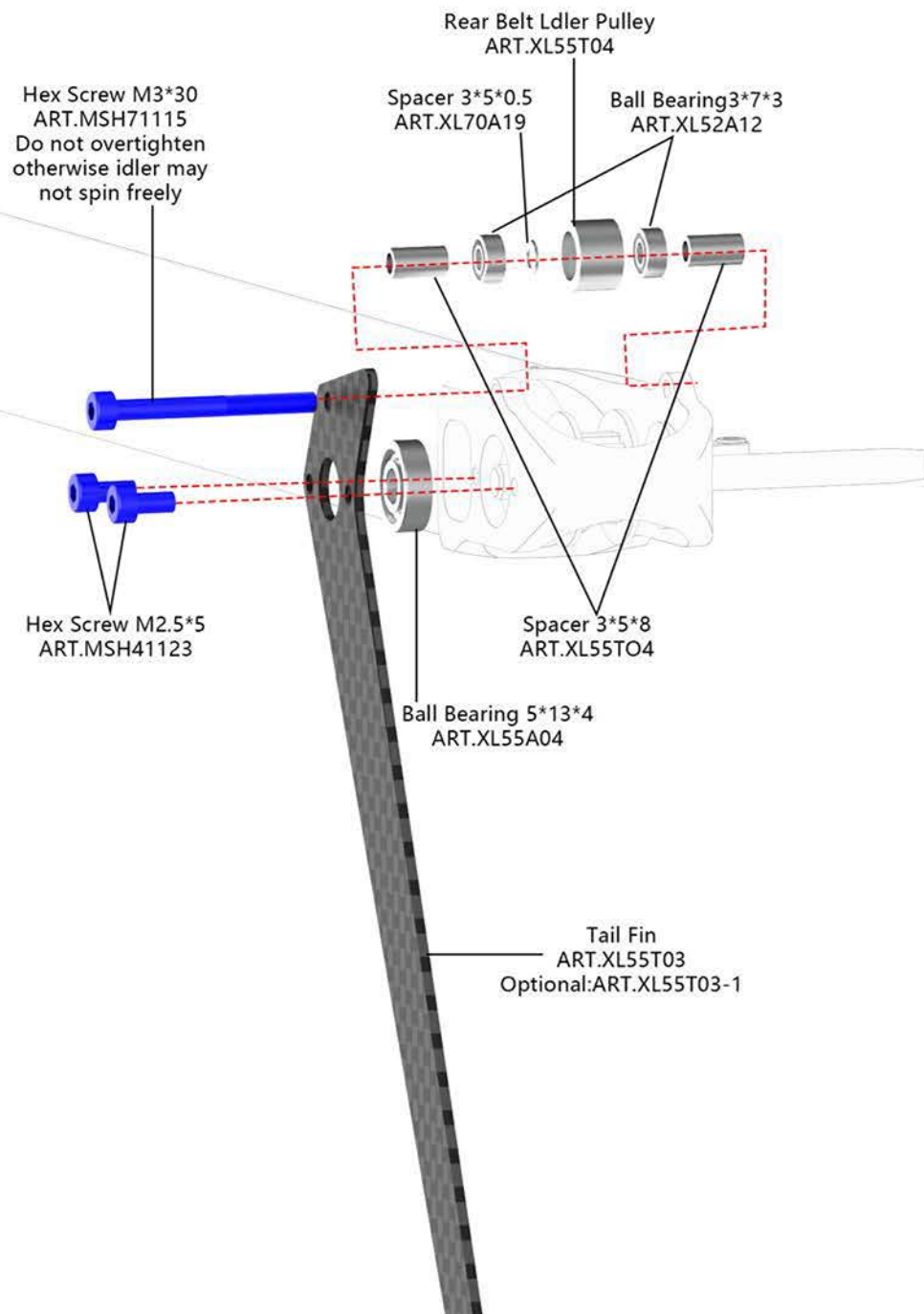
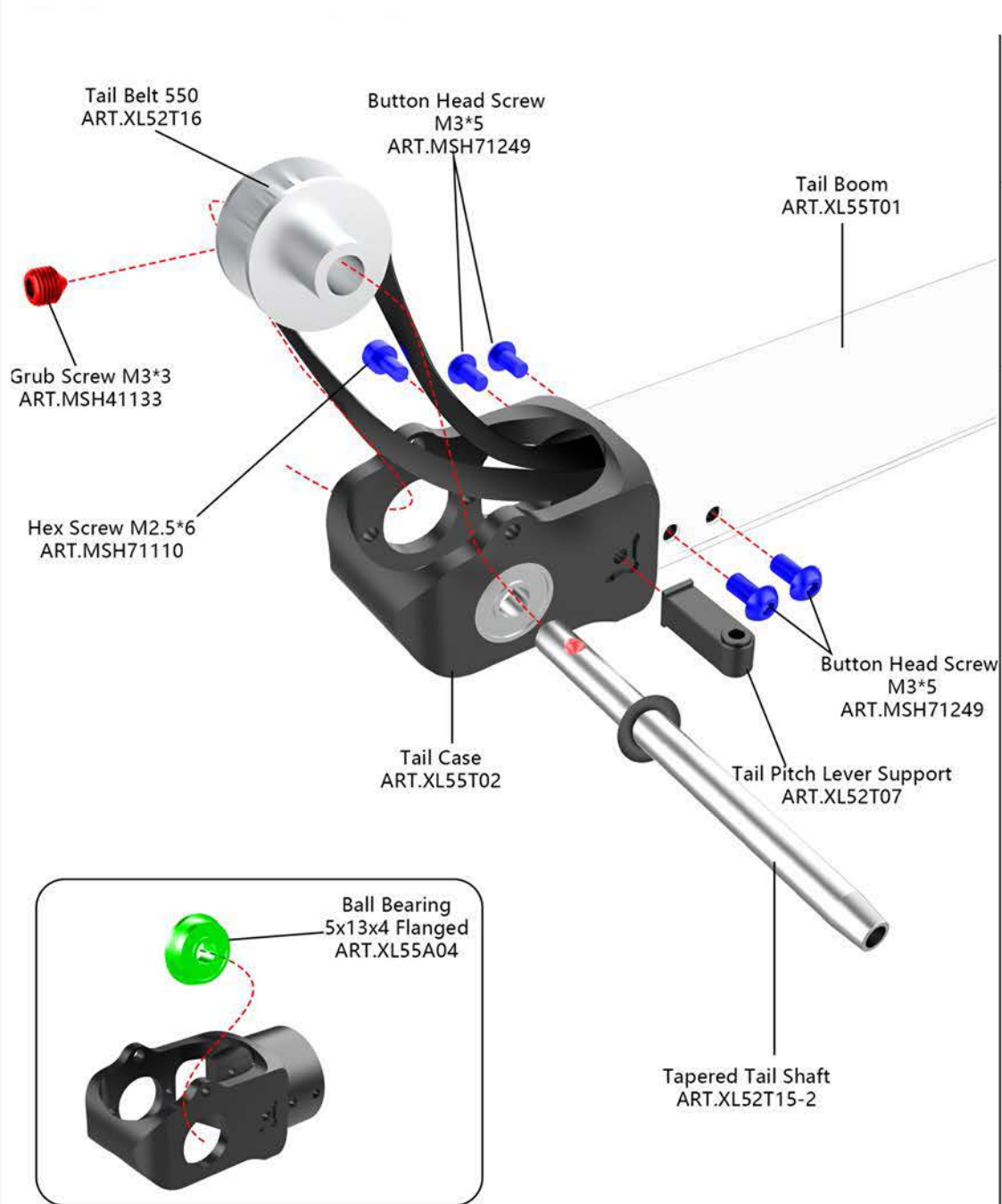


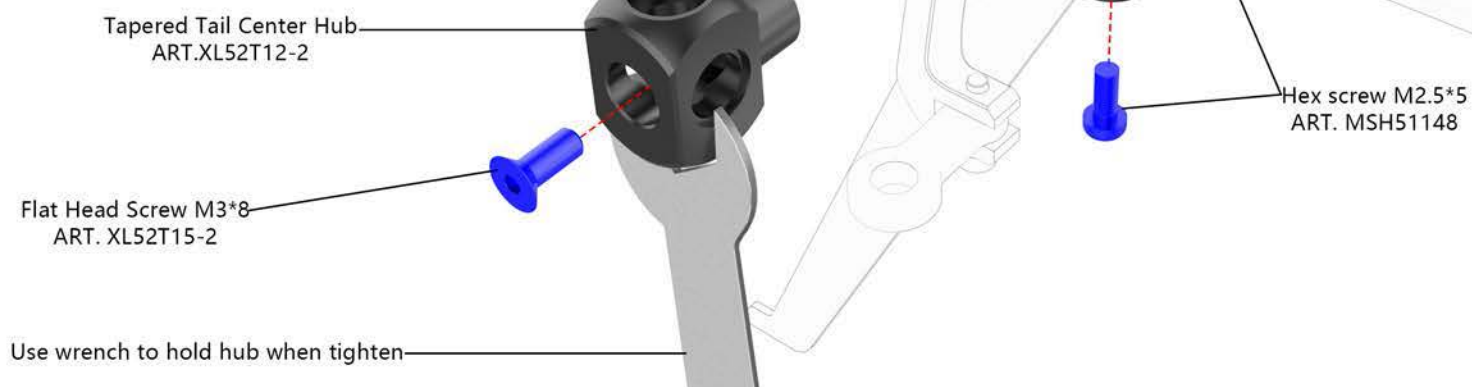
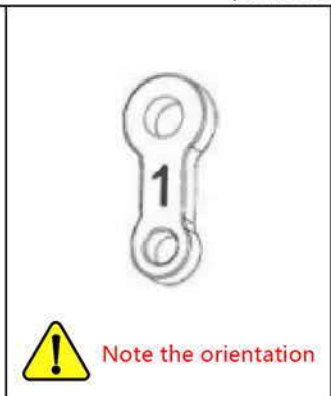
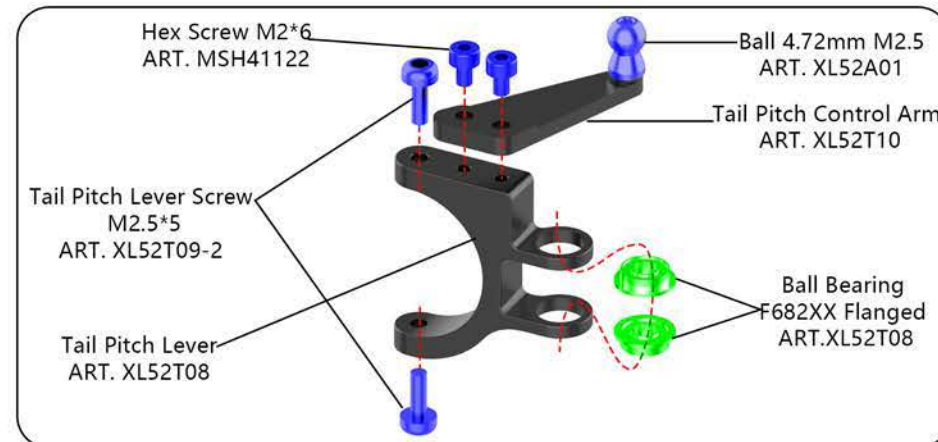
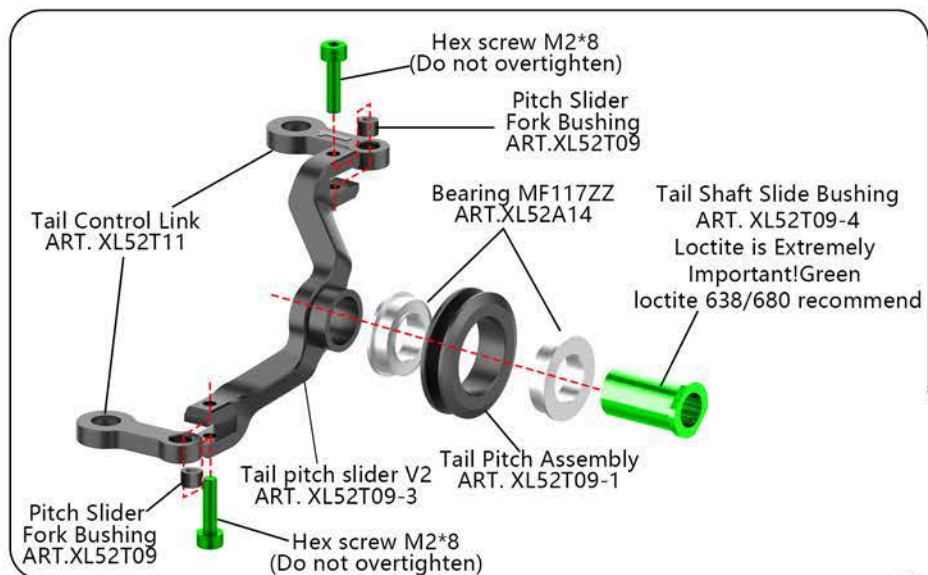
Bag7

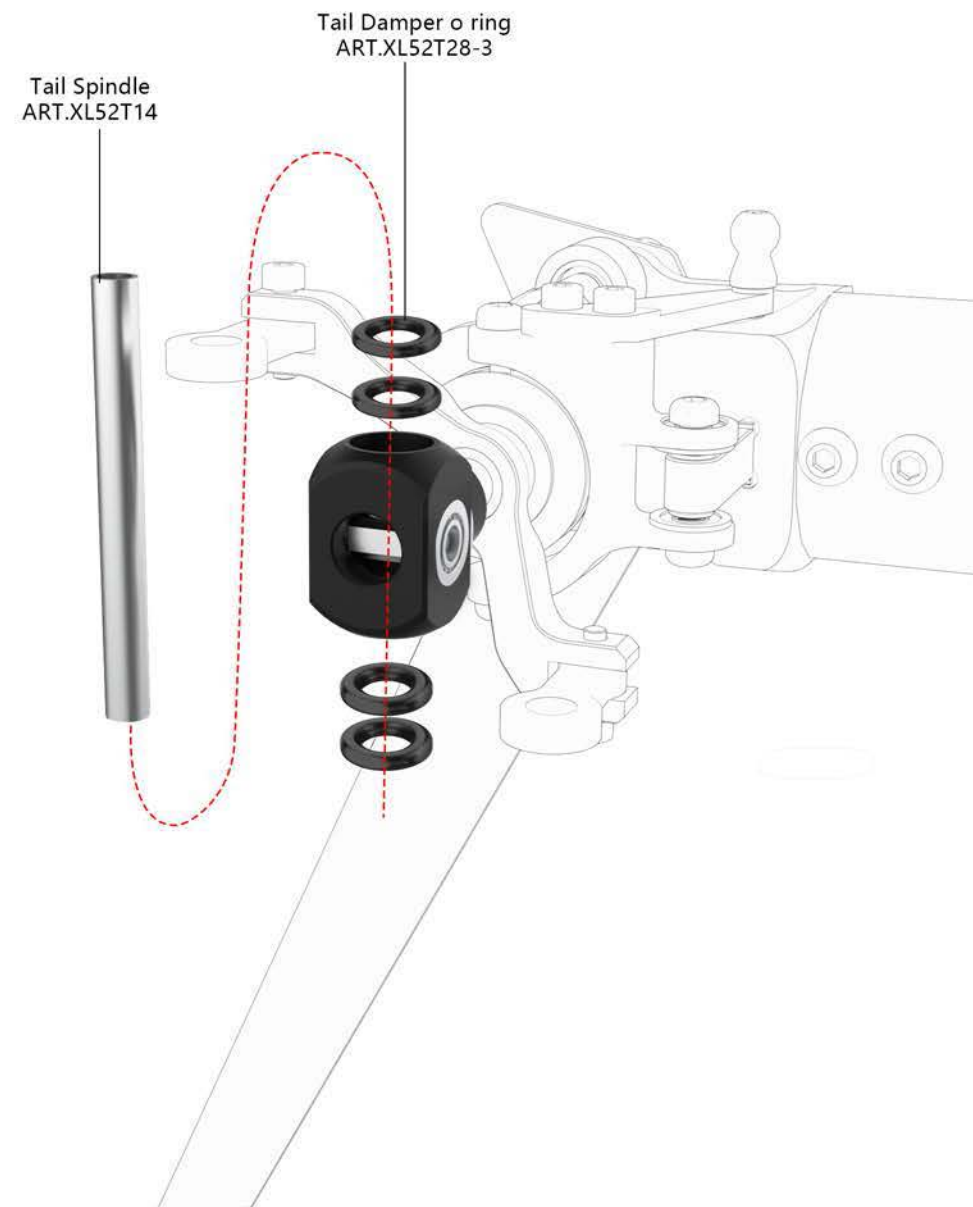
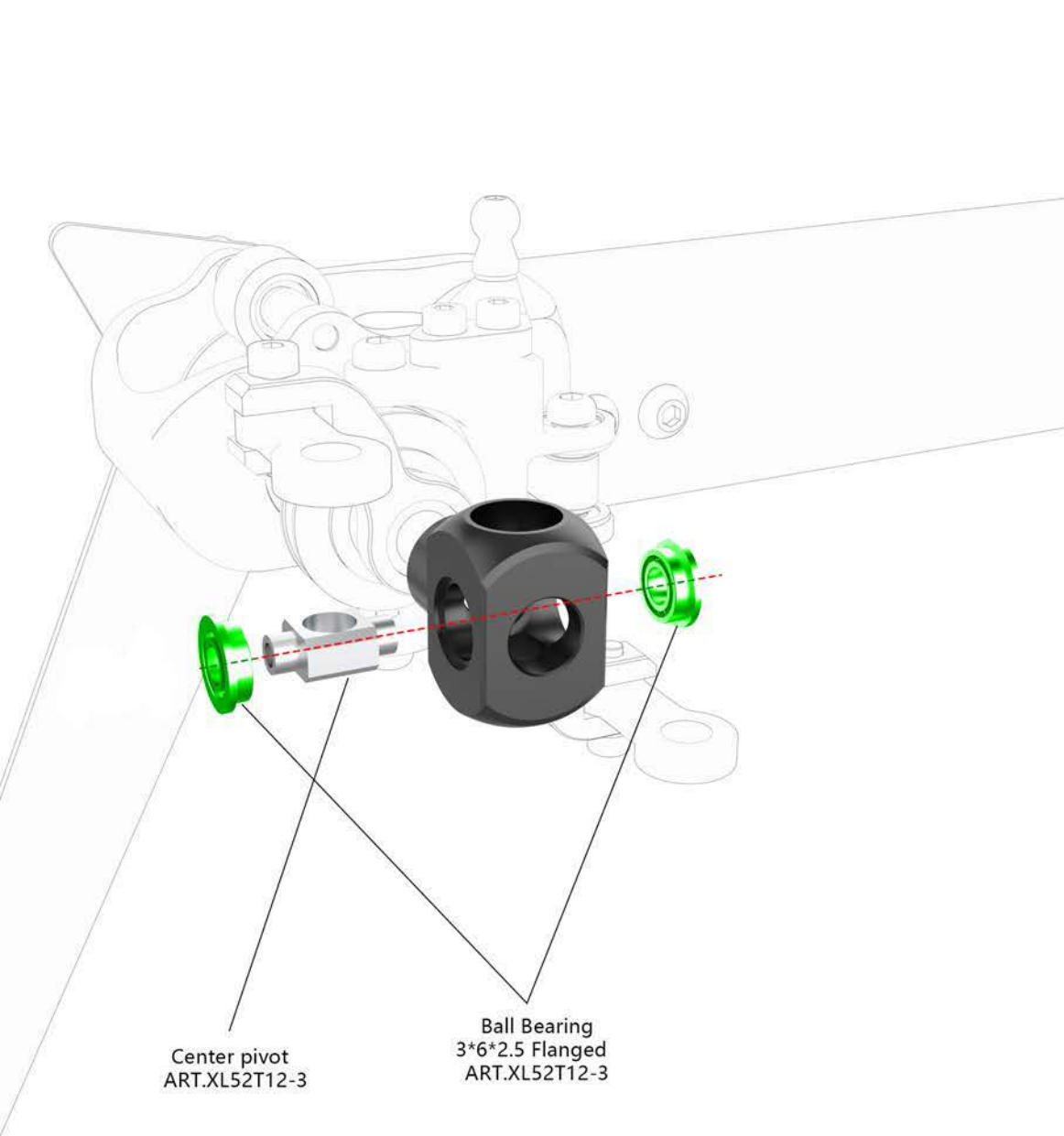


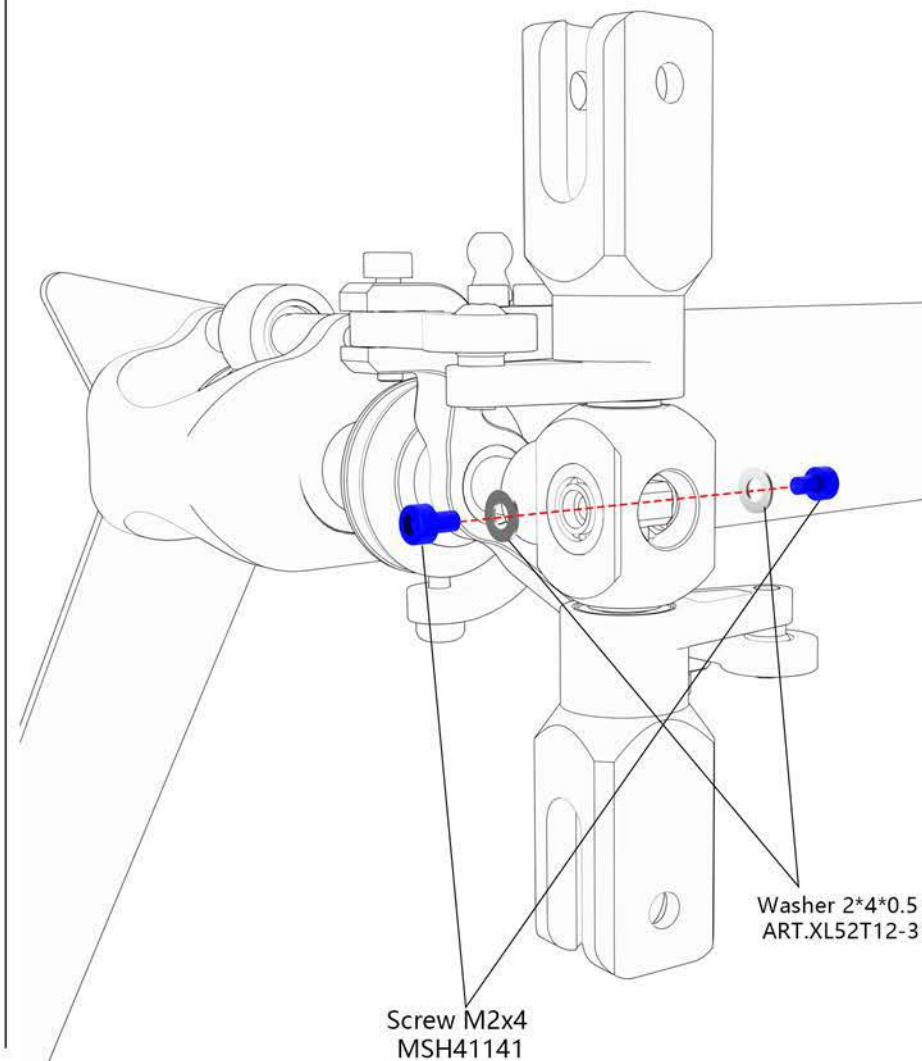
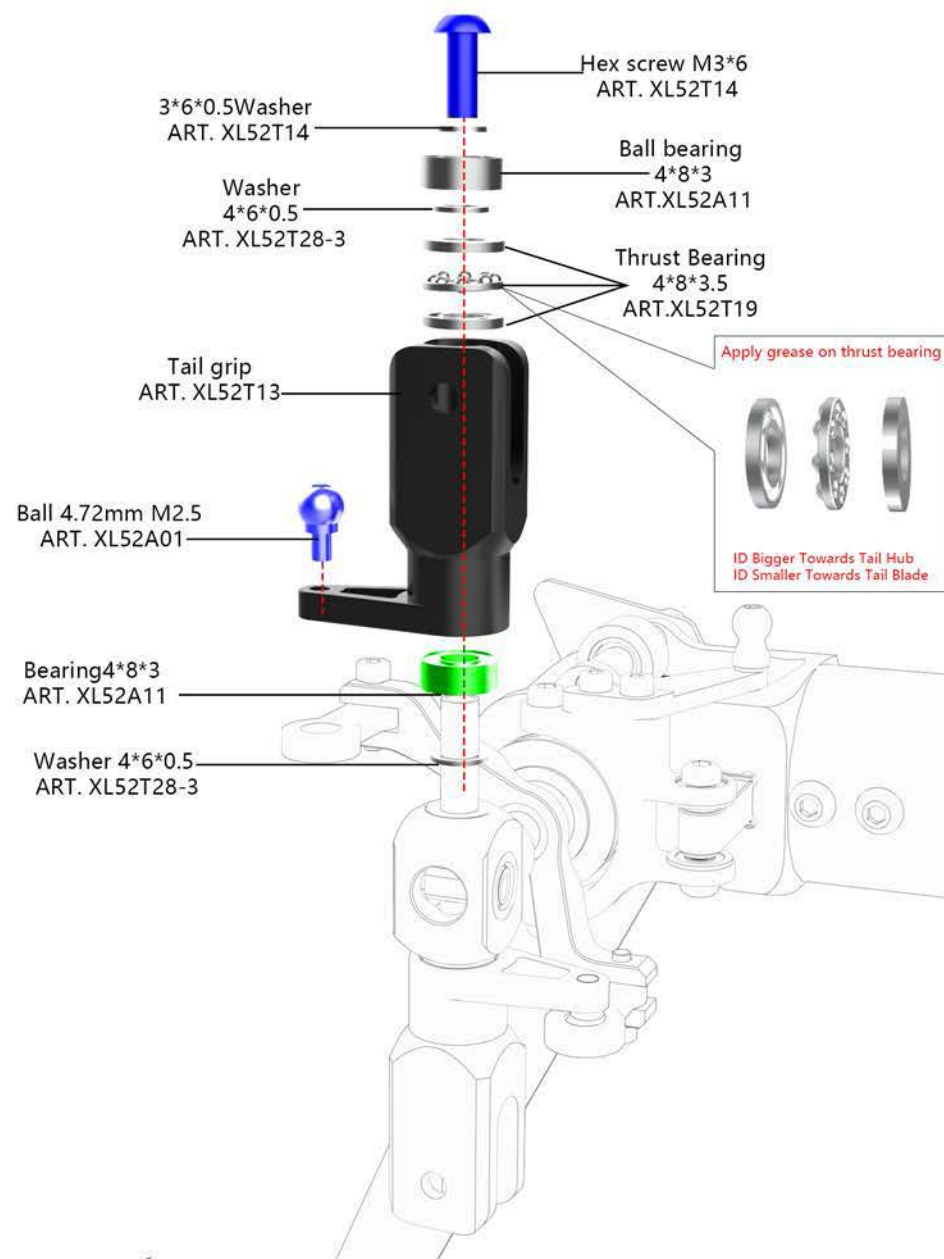
Bag4+Bag8



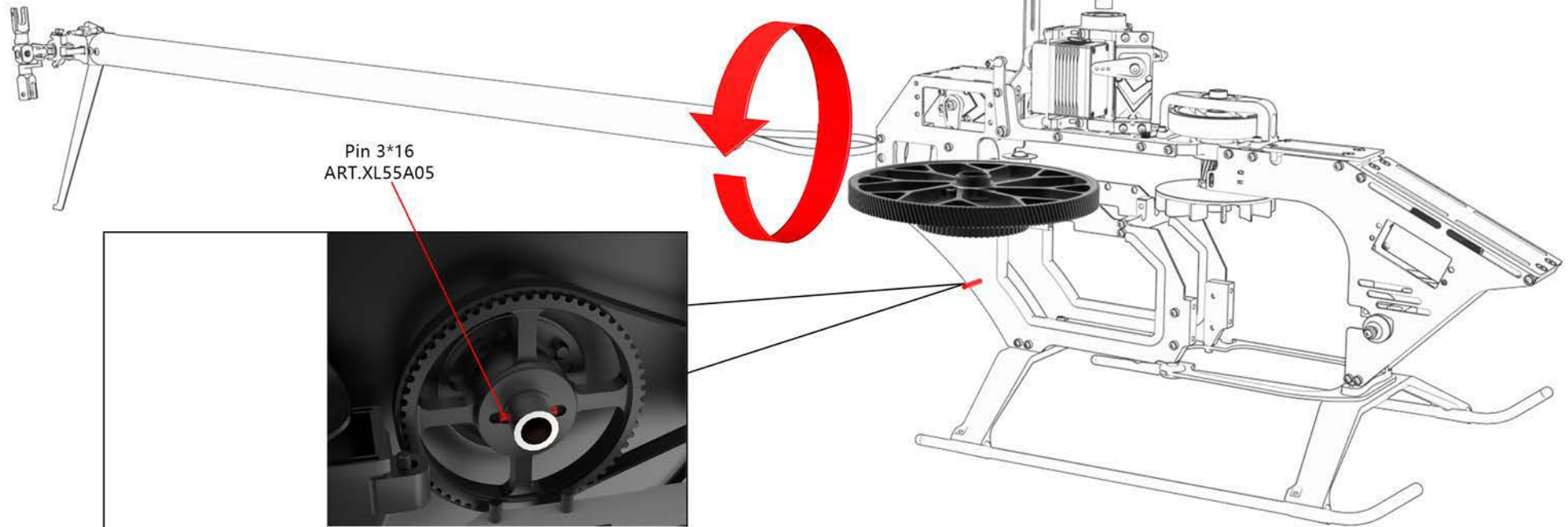
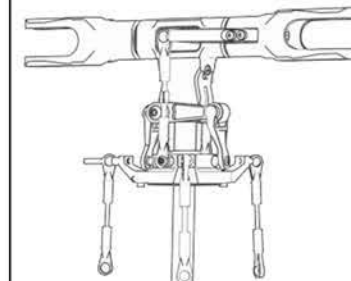
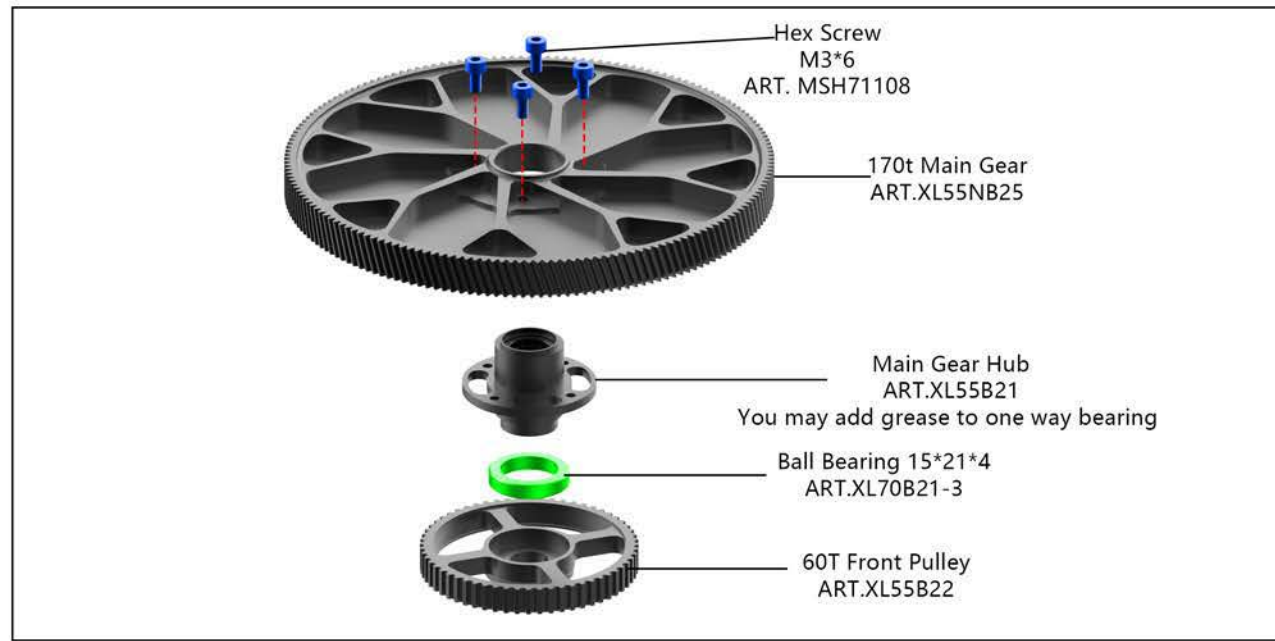


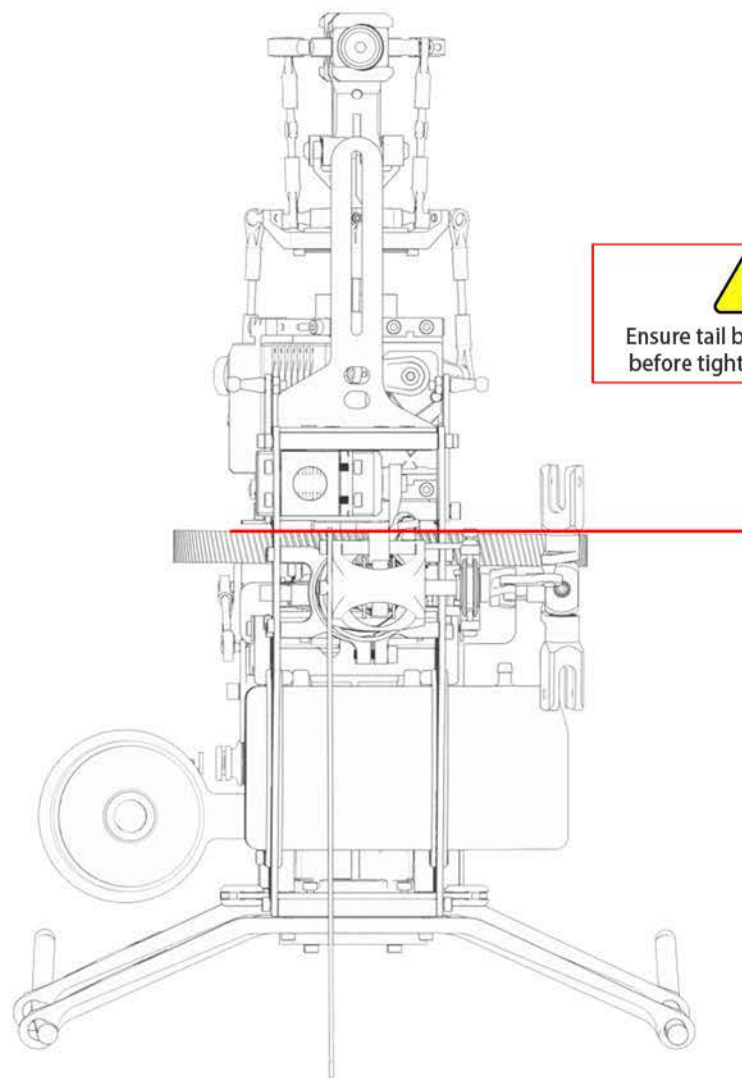




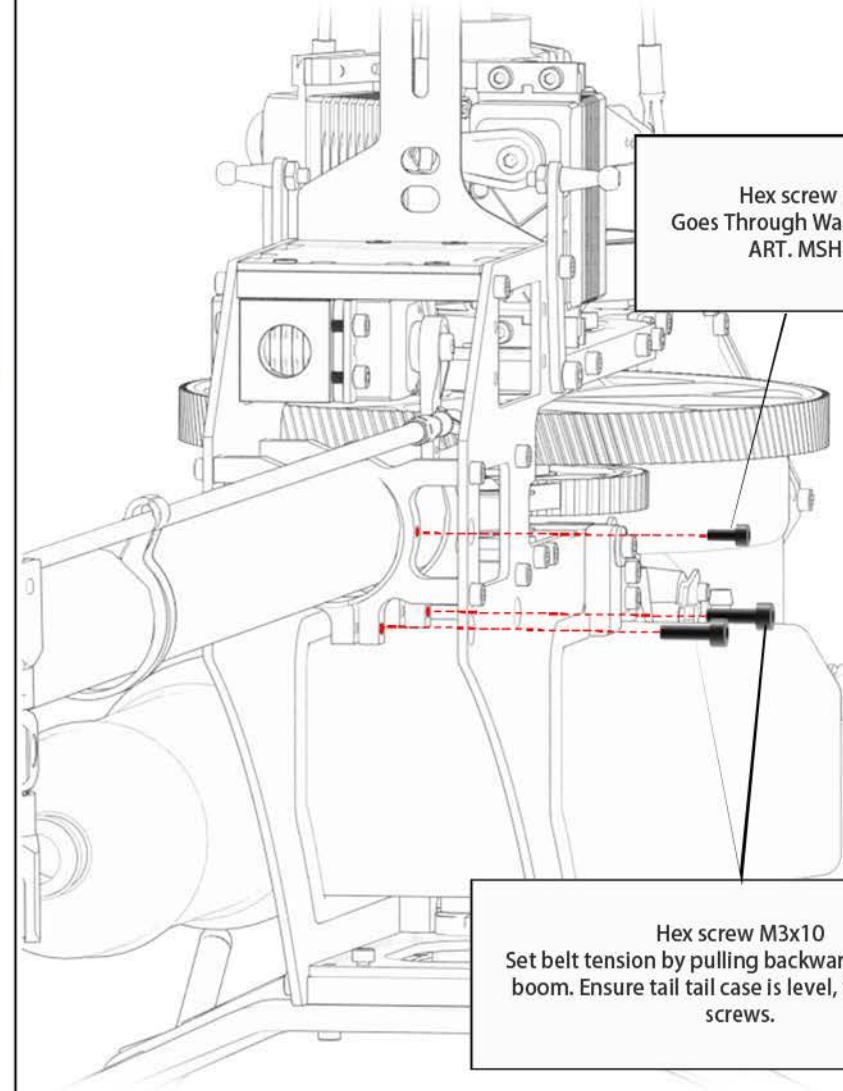


Bag11





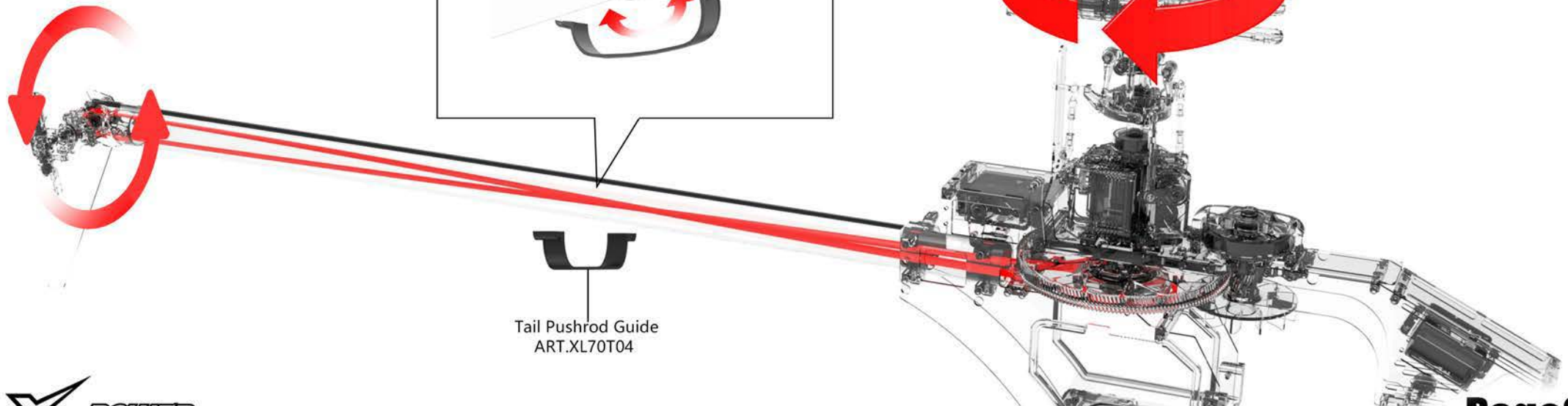
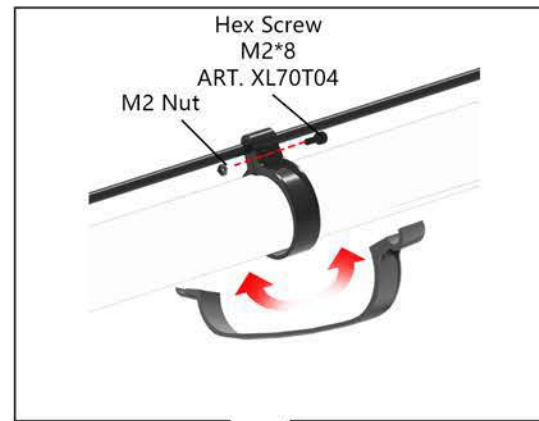
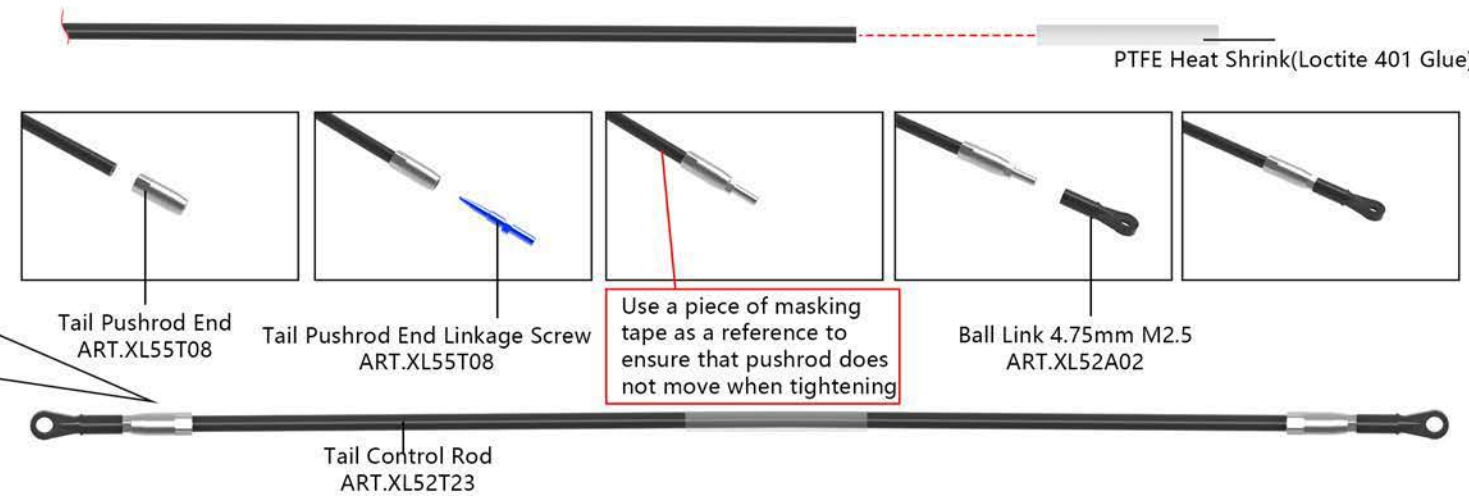
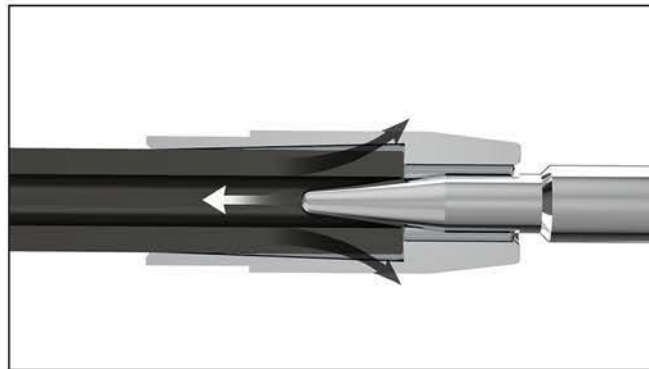
Ensure tail box alignment
before tightening clamps



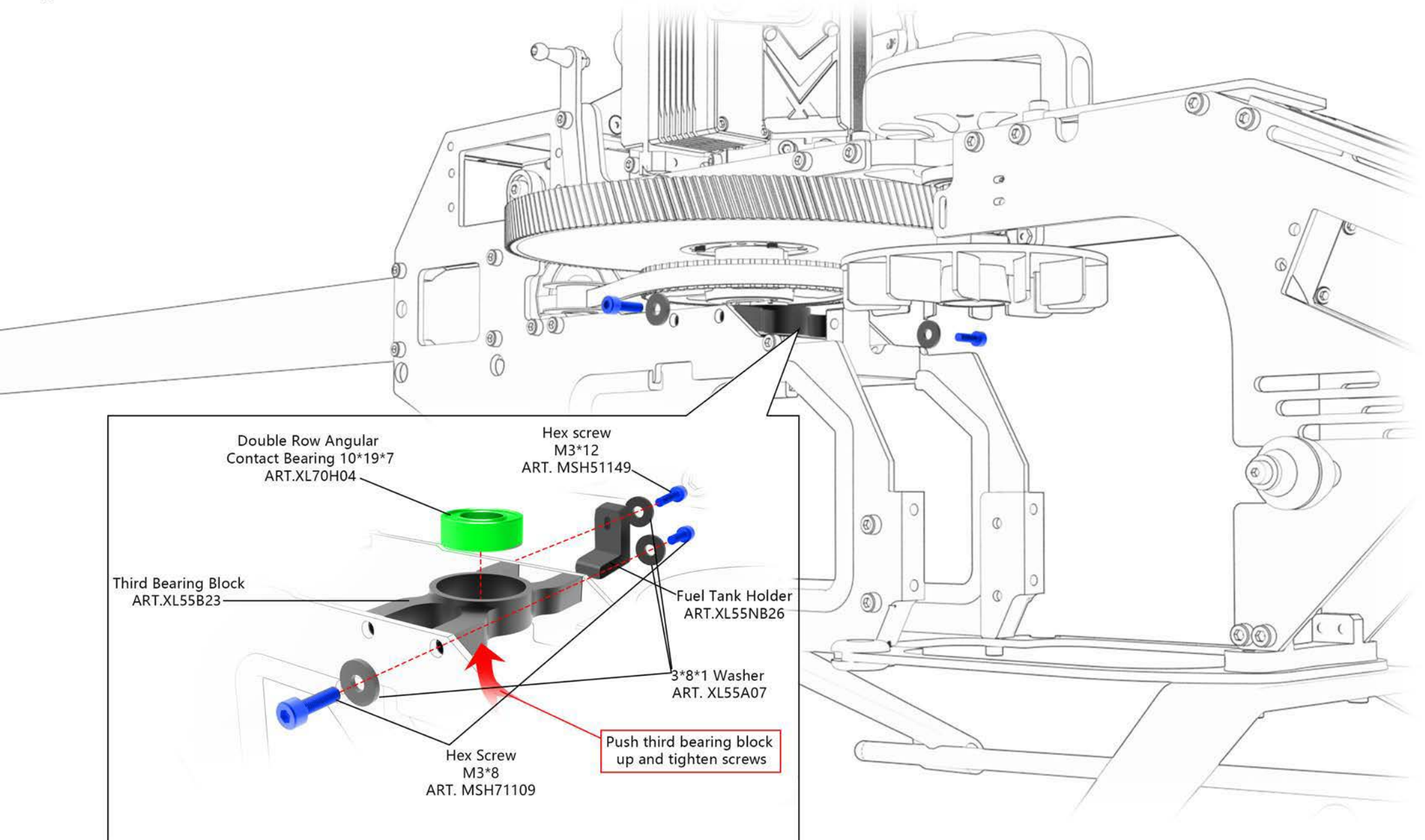
Hex screw M2.5*5
Goes Through Wall of Tail Boom
ART. MSH41123

Hex screw M3x10
Set belt tension by pulling backwards on the tail
boom. Ensure tail tail case is level, then tighten
screws.

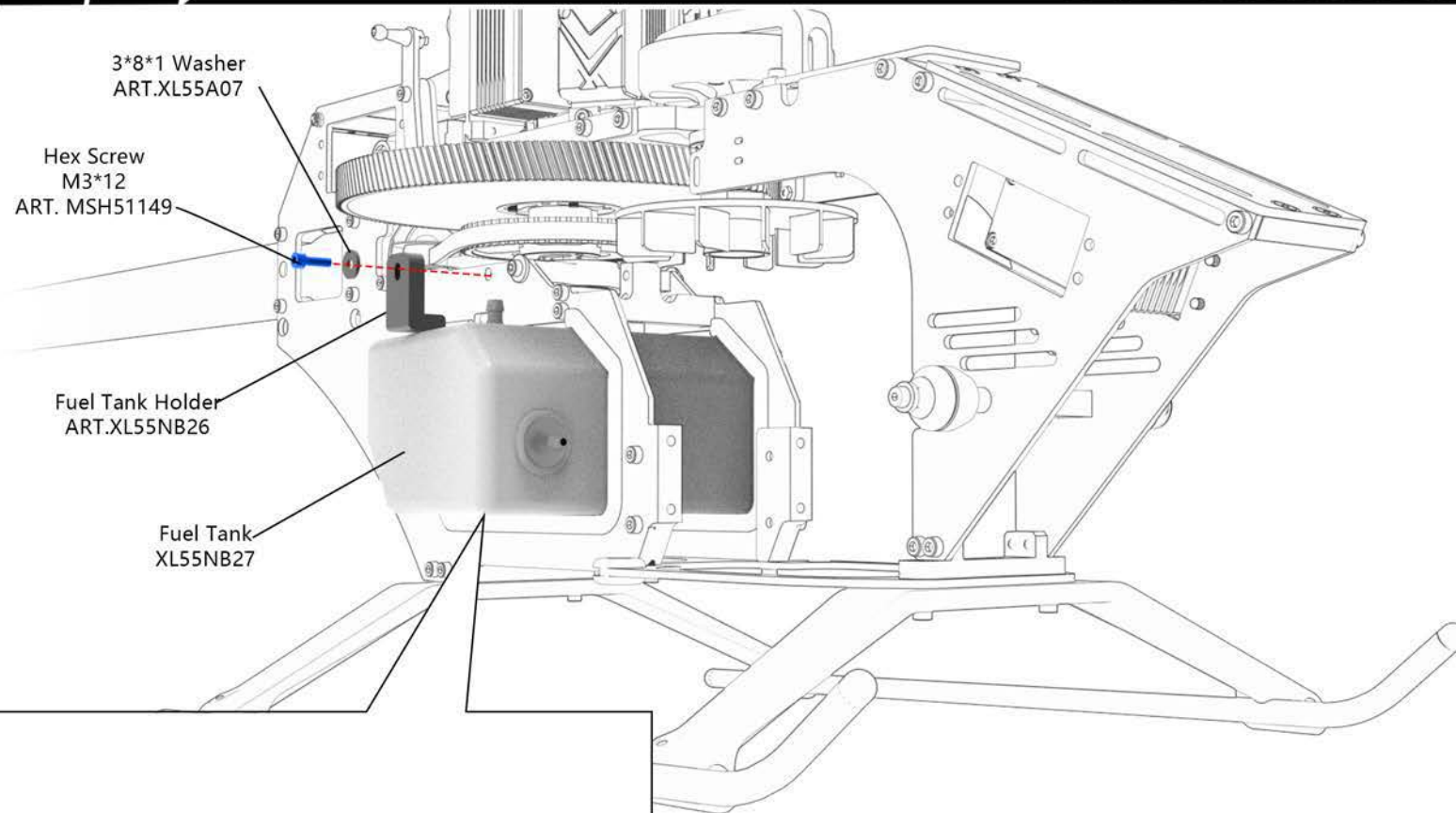
Bag9



Bag11



Bag12



Bag6

Remove cover plate and carburetor



Crank Shaft Tool
ART.XL55NA01

Hex Screw M3*25
ART.XL55NA01

Collet For Engine Shaft V2
ART.XL70V2NB28 -1



No loctite and No washer



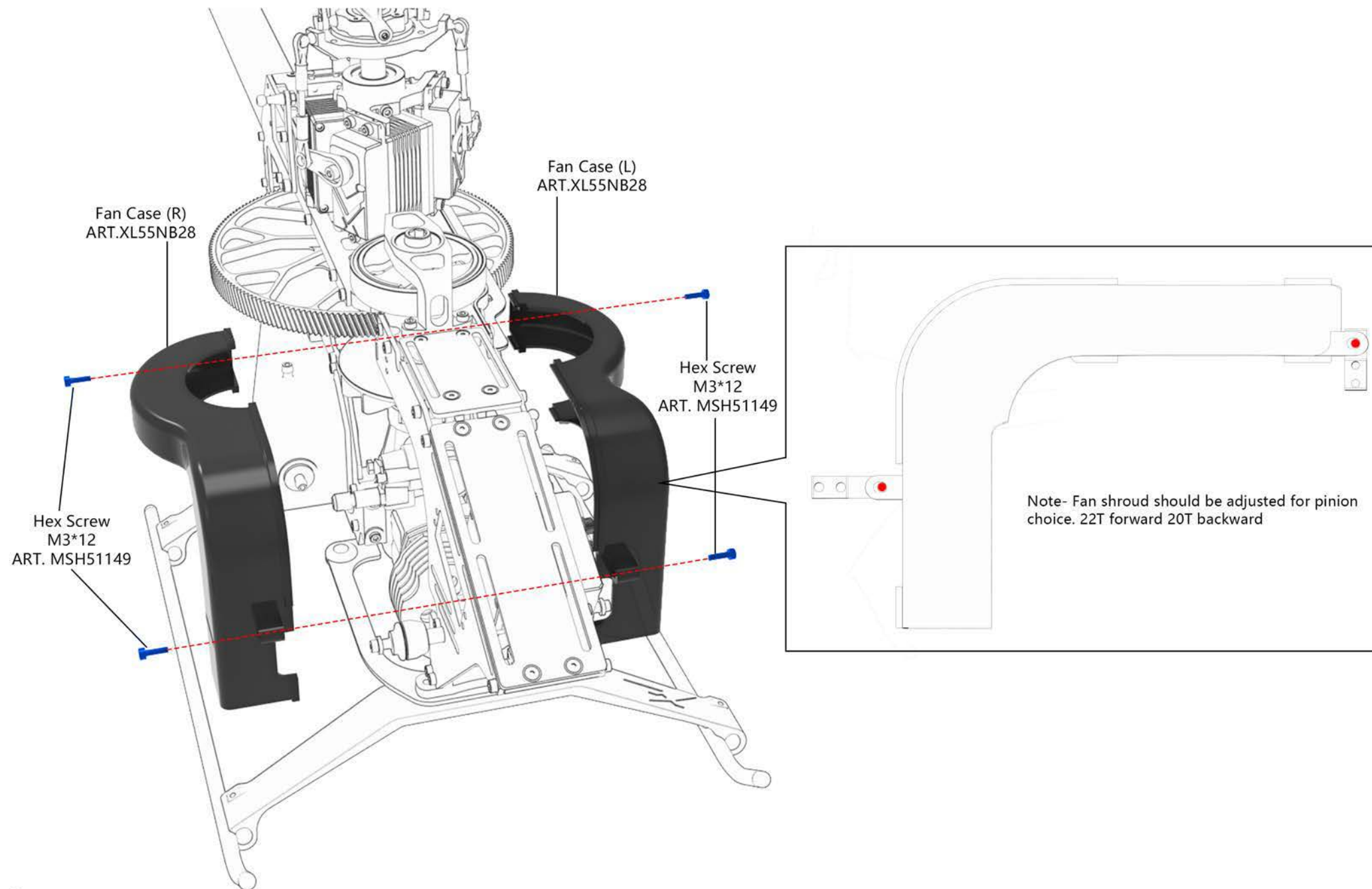
Hex Screw
M3*12
ART. MSH51149

3*8*1 Washer
ART. XL55A07

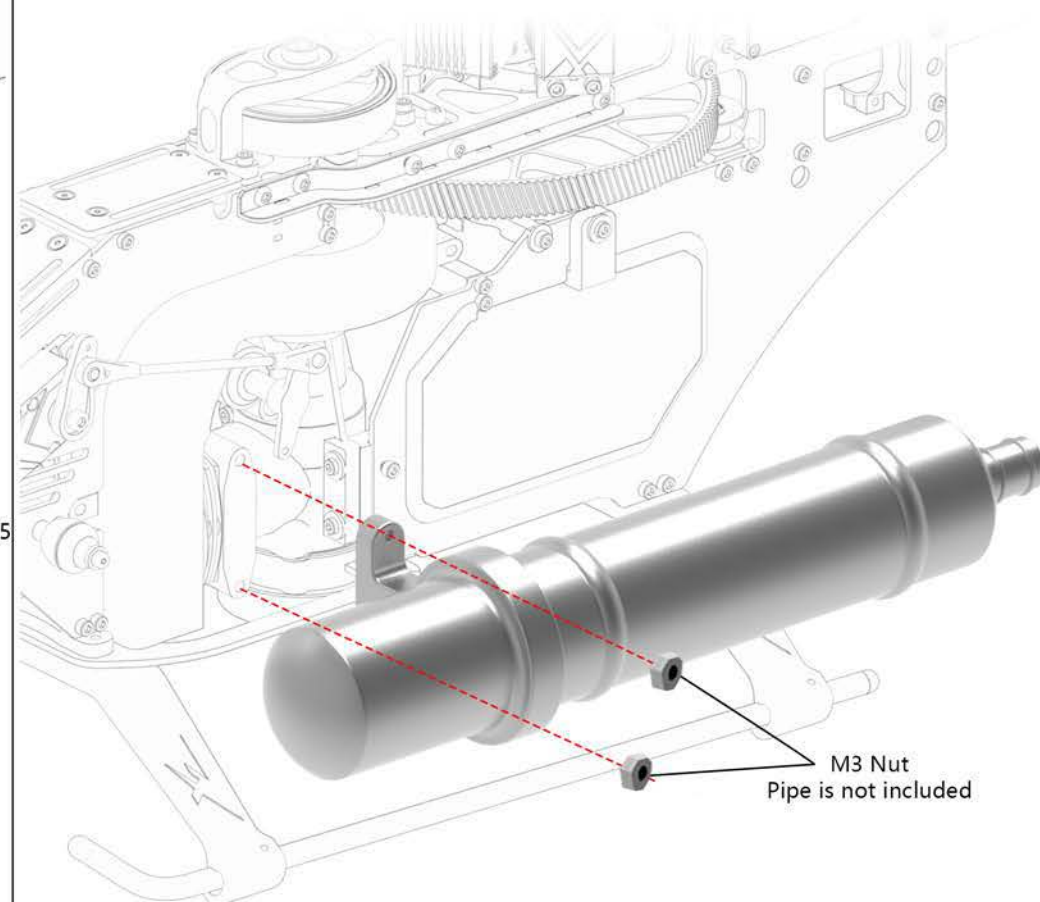
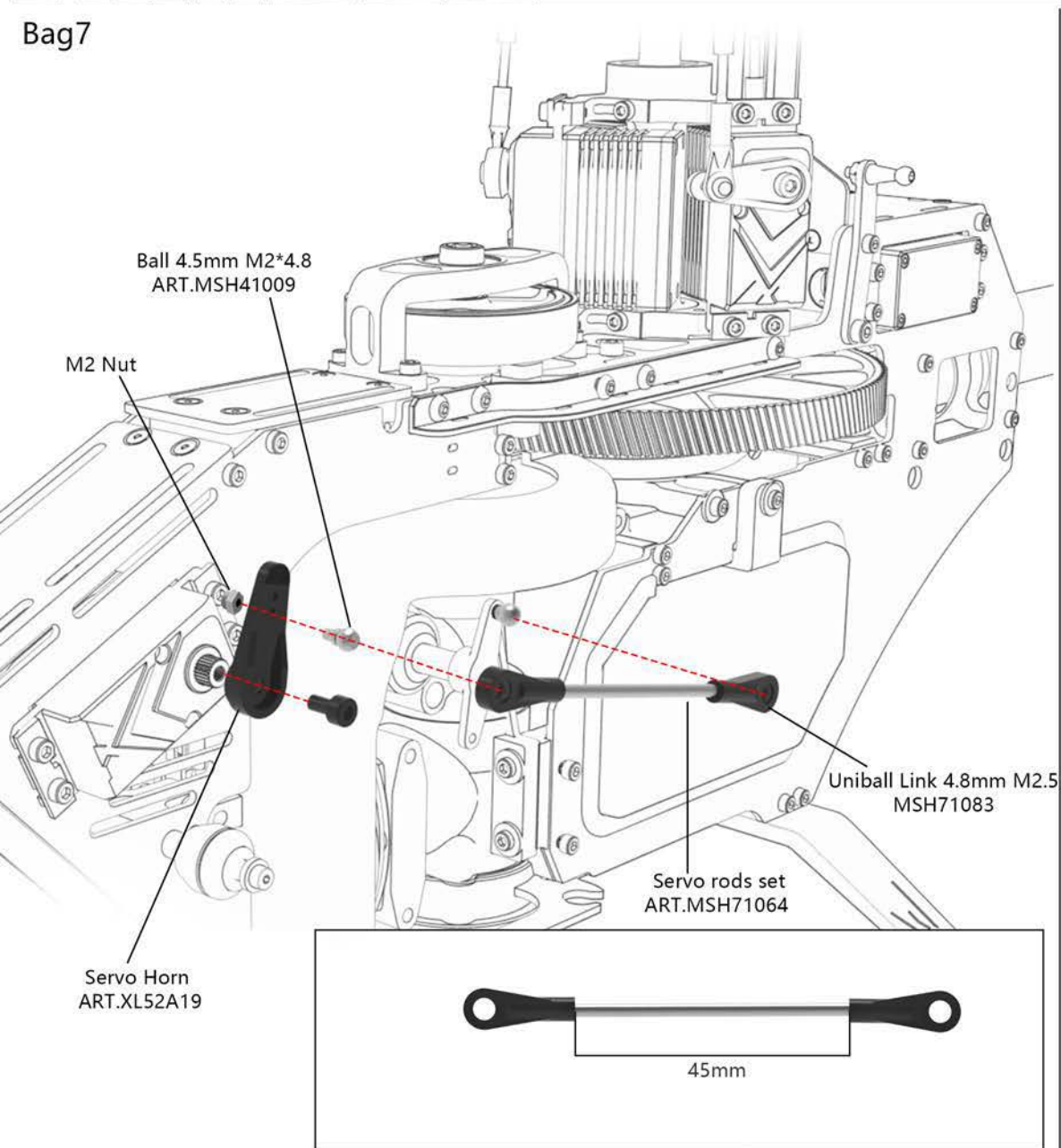
Tighten the engine shaft screw to a torque of
16-18 Nm, ensuring the shaft is fully secured
and will not loosen during starting.

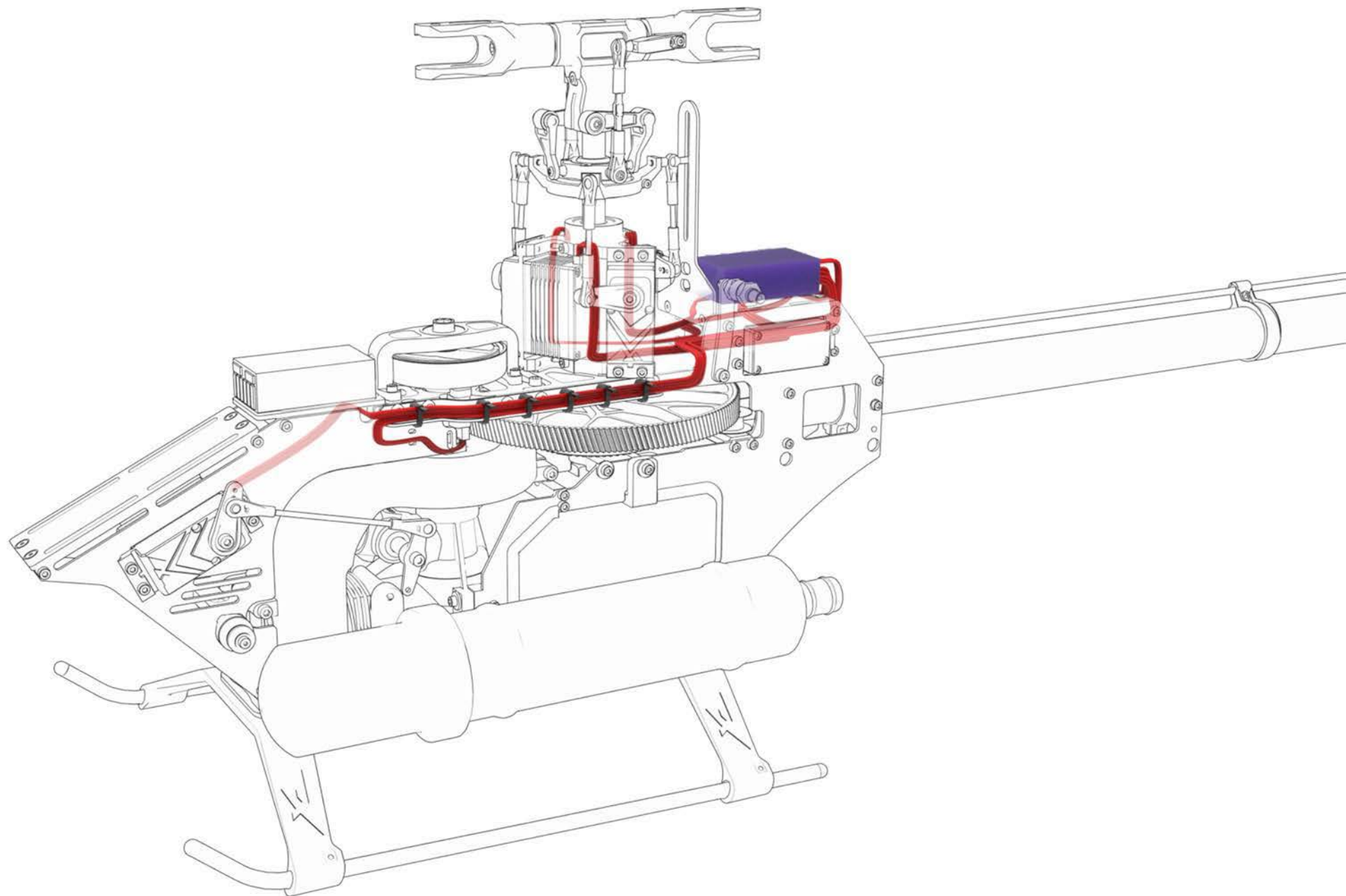


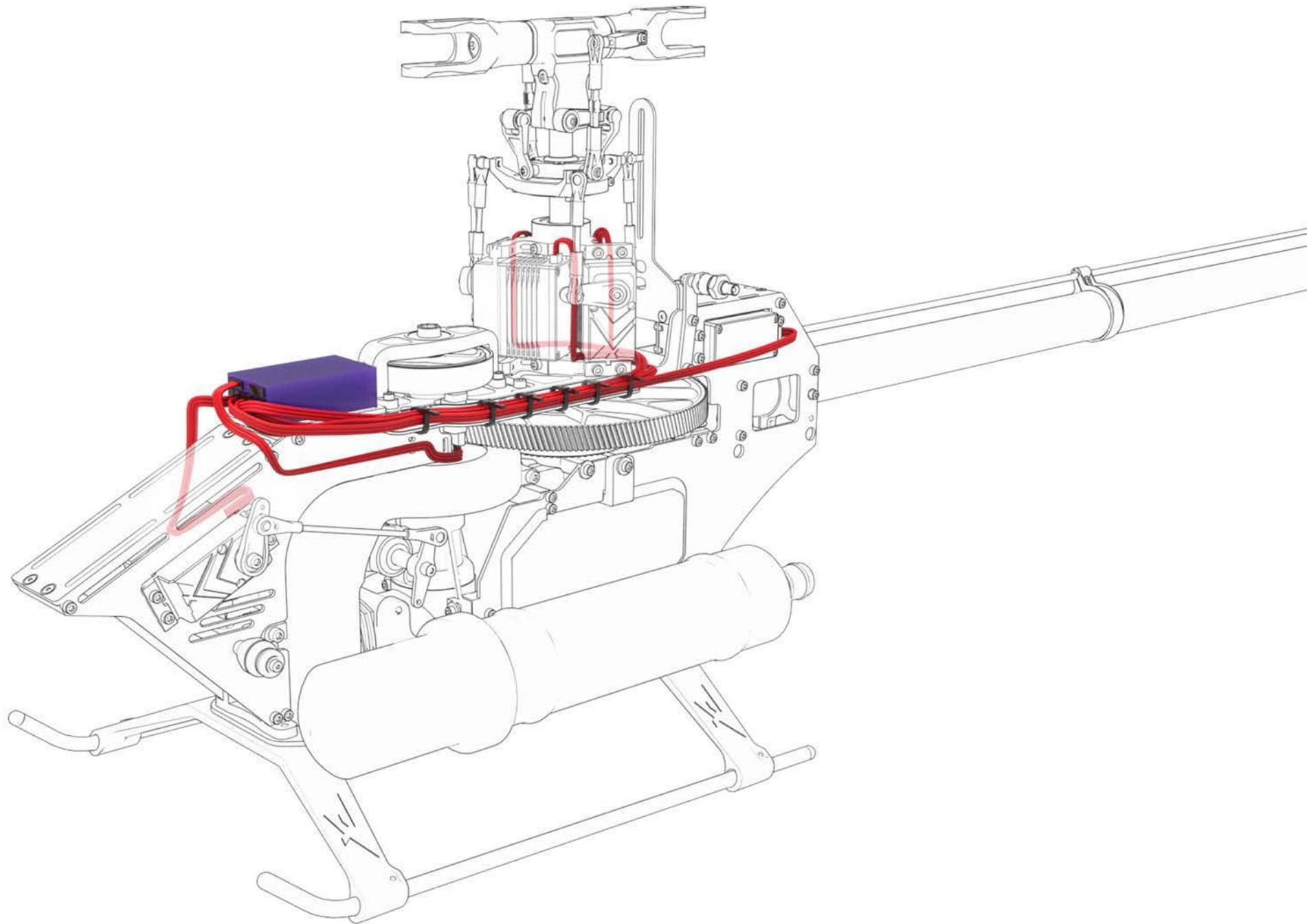
Bag13



Bag7





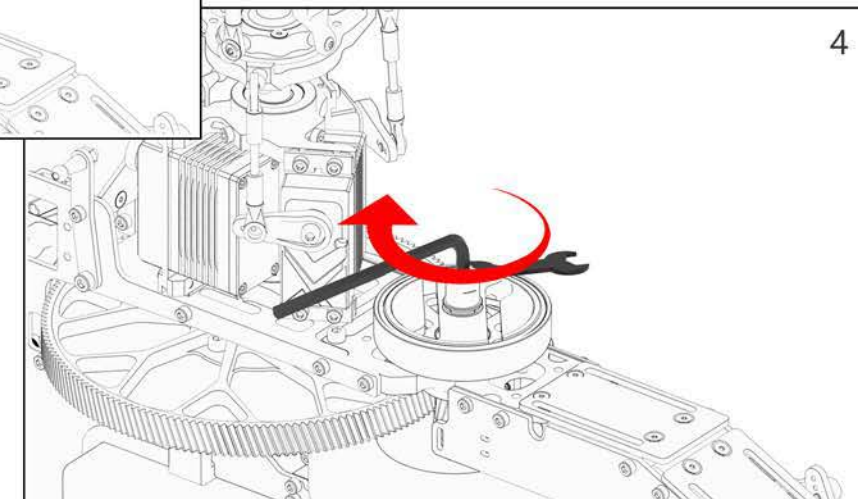
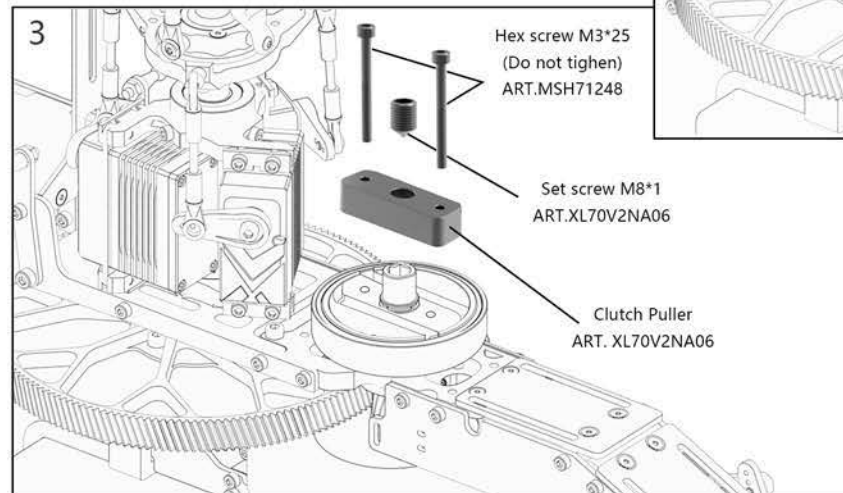
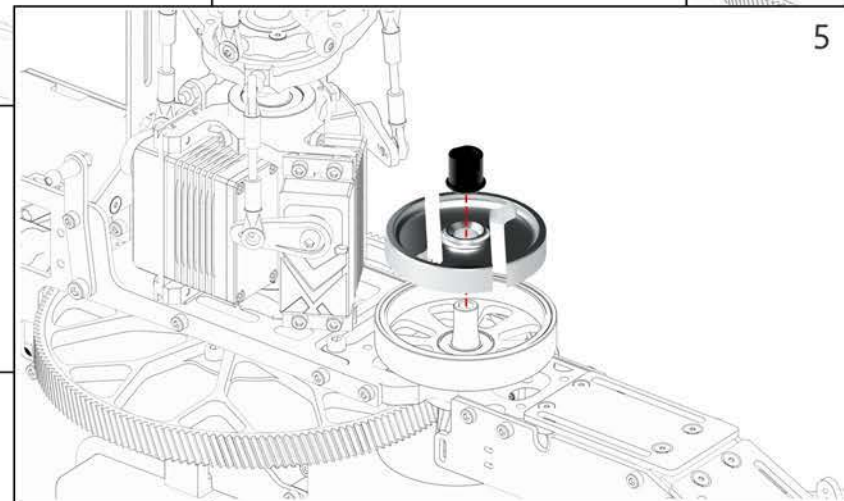
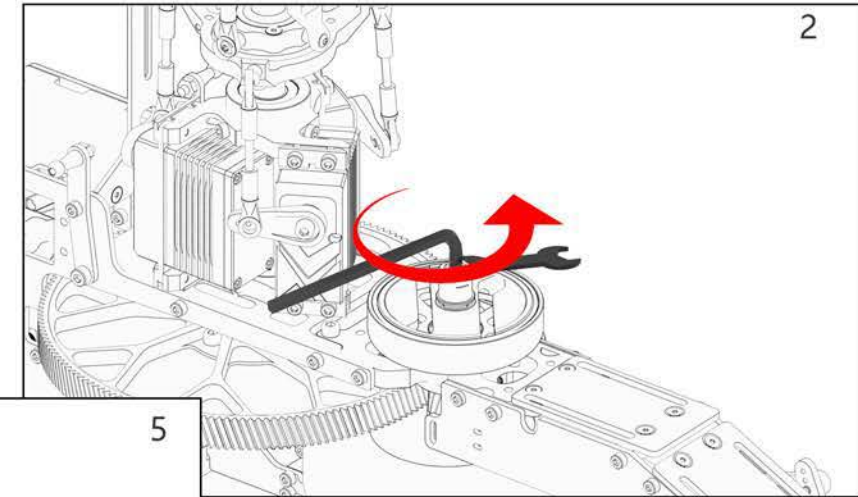
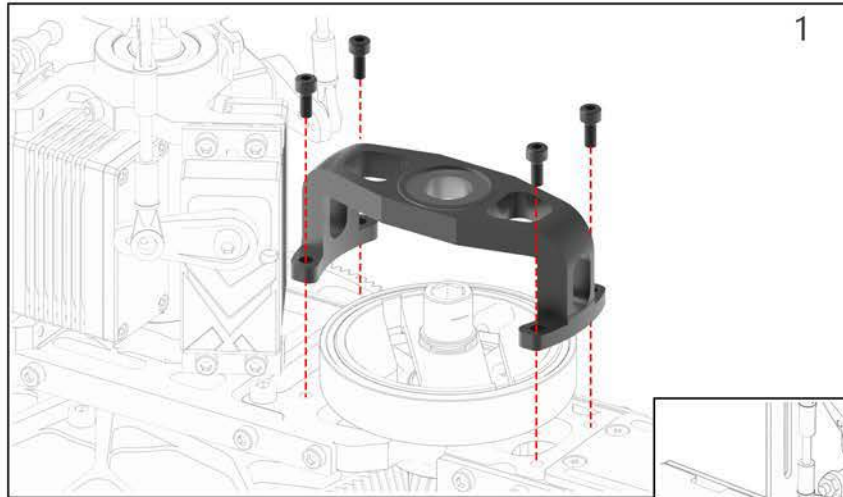


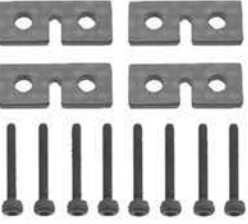


Hex Screw
M2.5*10
ART.MSH71103

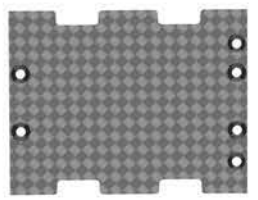
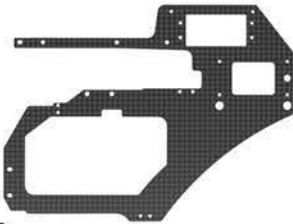
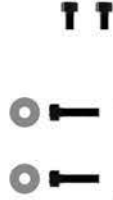
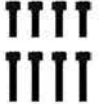
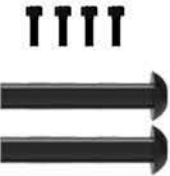
M2.5 Washer

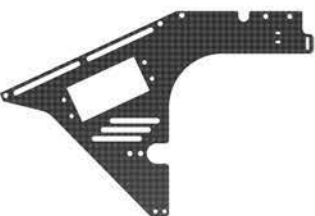
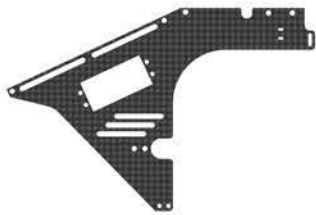
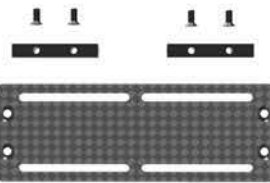
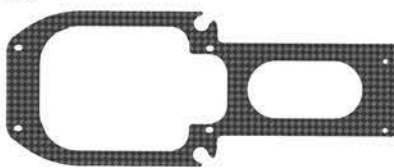
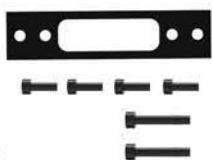
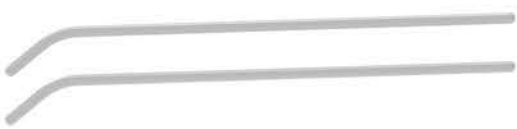
Canopy Grommet
ART.XL52B27



MSH41122  10 Socket Head Cap Screw M2x6	MSH41123  10 Socket Head Cap Screw M2.5x5	MSH41133  5 Socket Set Screw M3x3	MSH41182  2 Hex Screw M2.5x10 2 M2.5 Washer 2 Set Screw M3x12 2 Magnet Canopy support Kit	MSH51149  5 Hex Screw M3x12	MSH71032  4 Carbon Servo Washer 8 Hex Screw M2.5x10		MSH71095  10 Nylon Nut M2
MSH71083  10 Uniball Link 4.8mm M2.5	MSH71096  5 Nylon Nut M3	MSH71103  10 Socket Head Cap Screw M2.5x10	MSH71108  5 Hex Screw M3x6	MSH71109  5 Socket Head Cap Screw M3x8	MSH71110  10 Hex Screw M2.5x6	MSH71111  8 Hex Screw M2.5x8	
MSH71114  Hex Screw M3x10	MSH71249  5 Socket Head Button Screw M3x5	XL52A01  5 Ball 4.72x7mm M2.5x3 1 Ball 4.72x21.5mm M2.5x3 3 Ball 4.72x10.5mm M2x4.8 2 Ball 4.72x4.8mm M2.5x3 1 Ball 4.72x5mm M2x4.8		XL52A09  2 6800zz Bearing	XL52A10  2 Main Rotor Holder Bearing 8x14x4	XL52A11  4 Tail Blade Holder Bearing	XL52A12  4 MR683ZZ Bearing
XL52A13  4 MR63ZZ Bearing	XL52A19  4 Servo Horn For 520/550	XL52B08  1 Canopy Mounting Block 2 Hex Screw M2.5x8 4 Flat Head Screw M2.5x6		XL52B27  4 Canopy Grommets	XL52H01  1 Main Rotor Hub 6 Oring 7x3		XL52H04-2  1 1:1 Swashplate Assembly
XL52H03  2 Ball Bearing 3x7x3 1 Control Arm 1 Radius Arm 2 Spacer 3x5x0.5 2 Ball Bearing 3x6x2.5 1 Pin 3x13	XL52H06  1 Spindle 2 M5 Washer 2 Button Head Screw M5x10		XL52H12  2 Main Rotor Linkage Rod 6 Ball Link M2.5		XL52H13  6 Ball Link M2 3 Servo Rod	XL52H14-1  2 Pom damper 2 Washer 8x11x1 2 Oring 7x3	

XL52T07 1'Tail Rotor Control Arm Supp 1'Hex Screw M2.5*6 2'Button Head Screw M2.5*5		XL52T08 1'Tail Rotor Slider Control Set 2'Hex Screw M2*6 2'Tail Pitch Lever Screw M2.5*6 2'Bearing F682XZZ		XL52T09-3 1'Tail pitch slider V2 2'M 2.5X4.72X7.5 Ball 2'Screw M2X8		XL52T09-2 2'Tail Pitch Lever Screw M2.5*6	XL52T10 1'Tail Pitch Control Arm 1'Ball 4.72mm*7 M2.5*3
XL55H03 1'Nimbus Main Shaft 1'Screw M3*16		XL52T11 2'Tail Control Link	XL52T13 1'Tail Rotor Holder 1'Ball 4.72mm*7 M2.5*3 1'Nut M3 2'Ball Bearing 4*8*3 1'Hex Screw M3*14		XL52T14 1'Tail Feathering Shaft 2'Button Head Screw M3*6 2'M3 Washer		XL52T15-2 1'Tapered End Tail Shaft 1'Flat Head Screw M3*8
XL52T16 1'Tail Pulley 13T 1'Grub Screw M3*3	XL52T16-1 12t Tail Pulley 1'Grub Screw M3*3	XL52T19 2'Tail Thrust Bearing 2'Washer 5*8*0.5	XL52T21 1'Tail Boom	XL52T23 1'550 Tail Linkage rod		XL52T28-2 2'Nimbus 550 Damper For Tapered Tail Hub 2'Washer 4*6*0.5	
XL55A02 5'Flat Head Screw M2.5*6	XL55A03 3'Servo Horn 3'ball 4.72*5mm M2.5*3	XL55A04 1'Ball Bearing 5*13*4 Flanged 1'Ball Bearing 5*13*4	XL55A05 2'PIN 3*16	XL55B06 1'Frame Space 2'Hex Screw M2.5*8 2'Flat Head Screw M2.5*6		XL55B07 1'Tail Boom Clamp 2'Hex Screw M2.5*6 1'Hex Screw M2.5*5 2'Hex Screw M3*10 2'Hex Screw M2.5*8	
XL55B10-1 2'Landing Gear 4'Socket set screw M3*3		XL55B10-1 2'Landing Gear White 4'Socket set screw M3*3		XL55B11 1'Upper STD Servo Mount 6'Hex Screw M2.5*10		XL55B11-1 1'Upper Mini Servo Mount 6'Hex Screw M2.5*10	

XL55B12   1' Lower STD Servo Mount 6' Hex Screw M2.5'10 3' Hex Screw M3'10		XL55B12-1   1' Lower STD Servo Mount 6' Hex Screw M2.5'10 3' Hex Screw M3'10		XL55B13   1' Main Shaft Block (STD) 6' Hex Screw M2.5'8		XL55B13-1   1' Main Shaft Block (Mini) 6' Hex Screw M2.5'8	
XL55B14   1' Center plate 6' Hex Screw M3'6 2' Hex Screw M3'8		XL55B16-1  1' Rear Gyro Plate		XL55B17  1' Anti-Rotation Bracket		XL55B21    1' Main Gear Hub 1' Ball Bearing 15'21'4 4' Hex Screw M3'6 2' HF1012 One Way Bearing	
XL55B22  60T Front Pulley		xl55b23    1' Third Bearing Block 4' Hex Screw M3'12 4' Washer 3'8'1 1' Double Row Angular Contact Bearing 10'19'7		XL55H02   2' Main Blade Grip Arm 2' Ball 4.72mm M2.5'3	XL55H03  1' Main Shaft	XL55NA01   1' Crank Shaft Tool 4' Hex screw M3'25	
XL55NA02  3801 Double Row Angular Contact Ball Bearing	XL55NA03  1' HK0810 Roller Bearing	XL55NB01  1' Rear Carbon Frame		XL55NB02      1' Engine Mount (L) 1' Engine Mount (R) 4' Hex Screw M3'12 6' Hex Screw M3'6 4' Washer 3'8'1		XL55NB03    2' Tail Servo Mount 4' Hex Screw M2.5'6 4' Hex Screw M2.5'10	
XL55NB04   1' Idler Mount 2' Button Head Screw M4'14 4' Hex Screw M2.5'6		XL55NB05    2' Bearing 4'9'4 1' Washer 4'6'0.5 2' Front Idler		XL55NB06    1' Rear Fan Case Mount 2' Hex Screw M3'12 4' Hex Screw M2.5'6		XL55NB07    2' Ball for Nimbus Quick Canopy Release 2' Canopy Support 2' M3 Nut	

XL55NB08  1' Clutch Liner	XL55NB09  1' Clutch Bell 1' 688ZZ Ball Bearing 8*16*5 1' Clutch Liner	XL55NB10  1' Lower Clutch Bell Bearing Block 7' Hex Screw M3*6 2' Flat Head Screw M2.5*6 3' Button Head Screw M3*8	XL55NB11  1' 22T Motor Pinion 1' HK0810 Roller Bearing	XL55NB11-1  1' 20T Motor Pinion 1' HK0810 Roller Bearing
XL55NB12-1  1' Engine Shaft Set V2 1' bearing 7*19*6 1' Small-angle taper sleeve 1' Tapered washer 1' Fan nut	XL55NB14  1' Starter Head	XL55NB15  1' Upper Clutch Bell Bearing Block	XL55NB16  1' Front Frame For STD Servo	
XL55NB16-1  1' Front Frame For Mini Servo	XL55NB17  1' Front Fan Case Mount 2' Socket set screw 3*12 2' Hex Screw M3*6 2' Hex Screw M3*12	XL55NB18  1' Front Landing Gear Mount 4' Hex Screw M2.5*6 2' Hex Screw M3*12	XL55NB19  1' Battery Tray 4' Flat Head Screw M3*6 2' 32mm Frame Spacer	
XL55NB20  1' 32mm Frame Space 1' Front Gyro Plate 2' Flat Head Screw M3*6	XL55NB21  1' Wire Cover	XL55NB22  1' Bottom Plate	XL55NB23  1' Rear Landing Gear Mount 4' Hex Screw M2.5*6 2' Hex Screw M3*10	
XL55NB24  2' Landing Gear Pipe	XL55NB24-1  2' Landing Gear Pipe White	XL55NB25  1' 170t Main Gear	XL55NB26  2' Fuel Tank Holder	

XL55NB27  1'Fuel Tank		XL55NB28  1'Fan Case (R) 1'Fan Case (L)		XL55T02  1'Tail Case 1'Ball Bearing5x13x4 Flanged 1'Ball Bearing 5'13'4 4'Button Head Screw M3'5 2'Hex Screw M2.5'5 1'Hex Screw M3'32		XL55T03  1'Tail Fin	
XL55T03-1  1'Tail Fin		XL55T04  1'Rear Belt Idler Pulley 2'Bearing 3'7'3 2'Spacer 3'5'8 1'Spacer 3'5'0.5		XL55T05  1'650 Tail Boom 1'650 Tail Linkage rod 1'650 Belt 2'Tail Pushrod End 2'Tail Pushrod End Linkage Screw 2'Ball Link 4.75mm M2.5		XL55T06  1'650 Tail Boom	
XL55T07 1'650 Tail Linkage rod		XL55T08  2'Tail Pushrod End 2'Tail Pushrod End Linkage Screw 2'Ball Link 4.75mm M2.5		XL55T09  1'650 Belt		XL70A13  1'Main Frame Edge Protection	
XL70A16  2'688ZZ Ball bearing 8'16'5	XL70A18  5'Screw M3'32	XL70A19  5'Washer 3'5'0.5	XL70B27-1  10'Hex screw M2.5'4	XL70H04  1'Double Row Angular Contact Bearing 10'19'7	XL70V2NA03  1'Nut M12'1	XL70NB29-1  1'Fuel Tank Stopper 1'Fuel Tank Nipple	
XL70NB29-2  1'Fuel Tank Filter 1'Fuel Line		XL70V2B04-2  2'Release Canopy Mount 2'M6'0.5 Nut		XL70V2NA06  1'Clutch Puller 1'M8'1 Set Screw	XL70V2NB19  1'Fan		XL70V2NB28-1  1'Collet For Engine Shaft V2

NIMBUS

NITRO V2



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