

NIMBUS

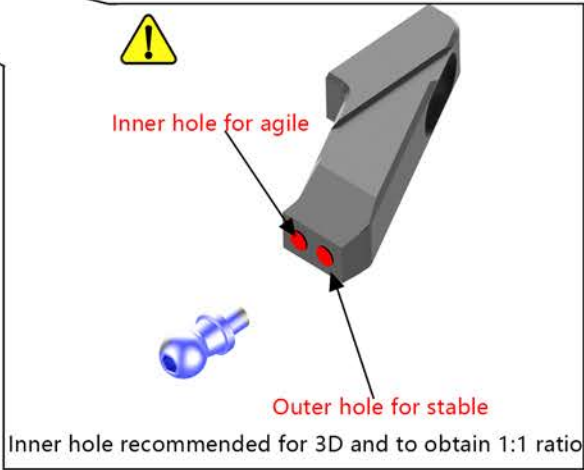
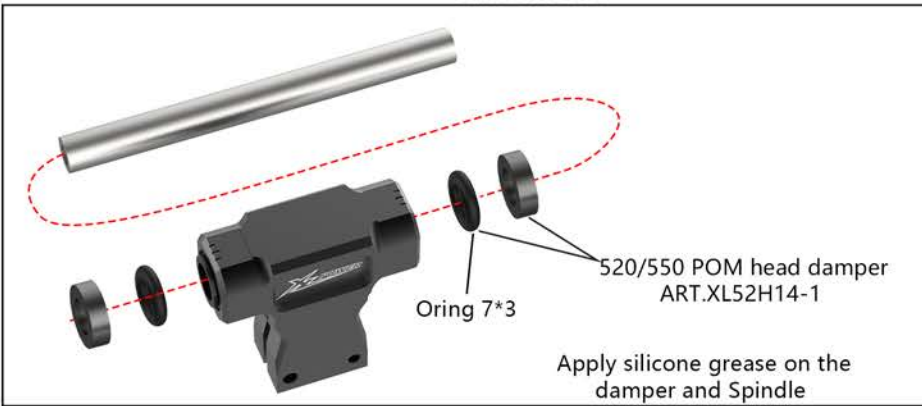
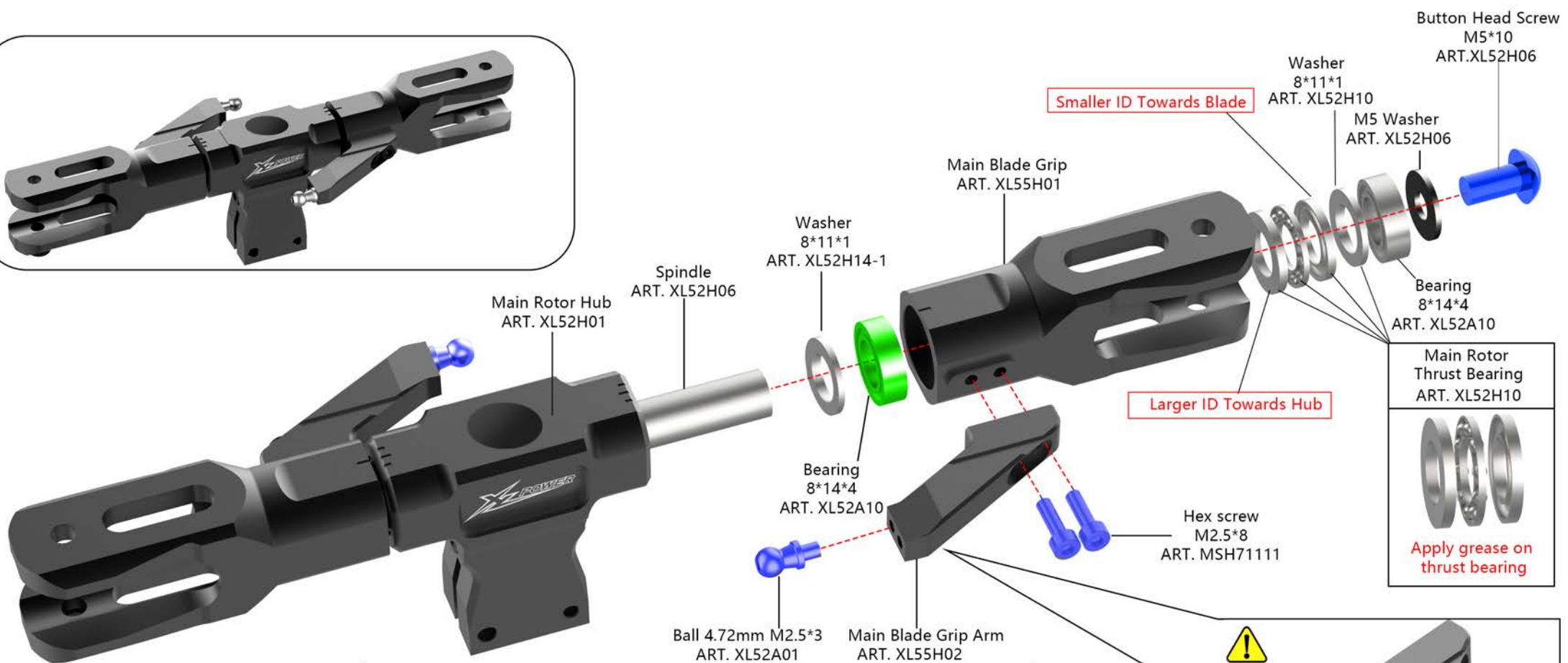


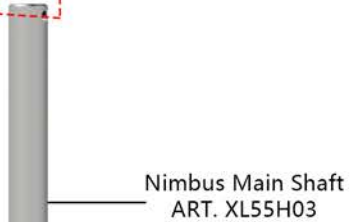
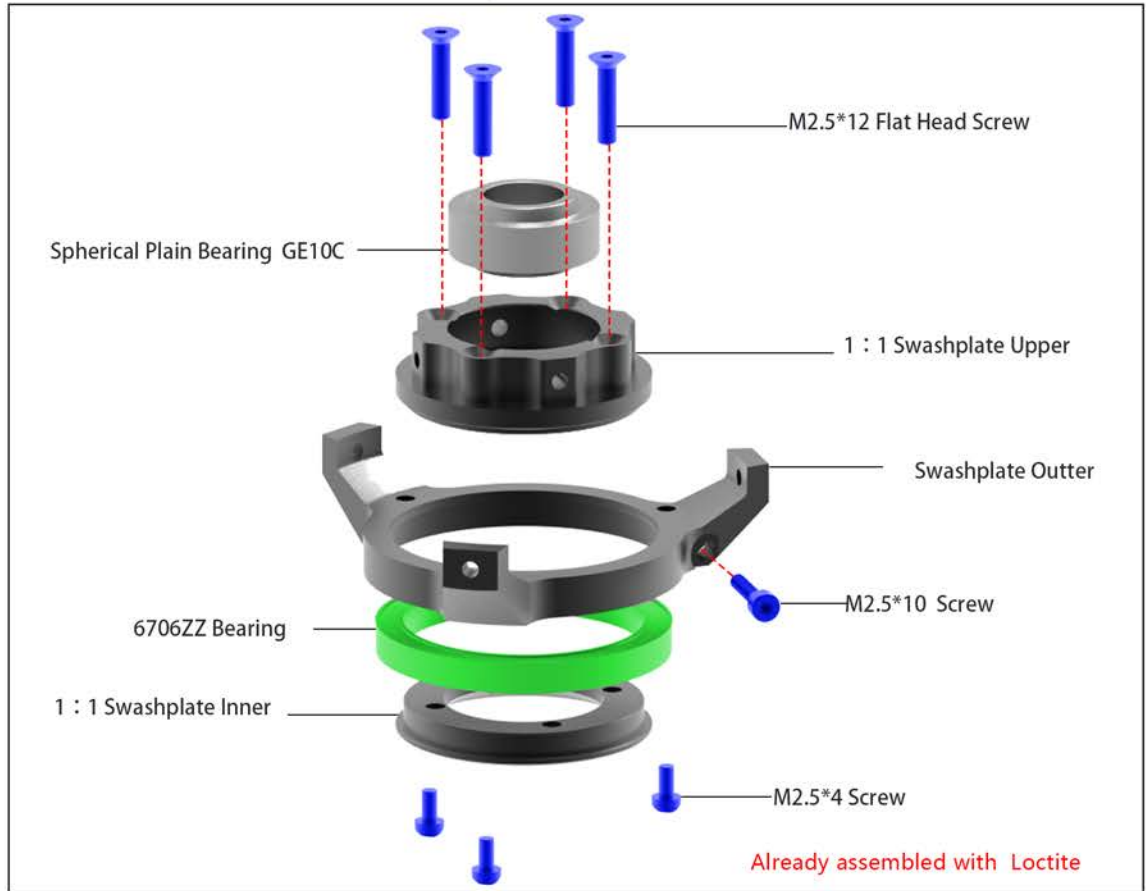
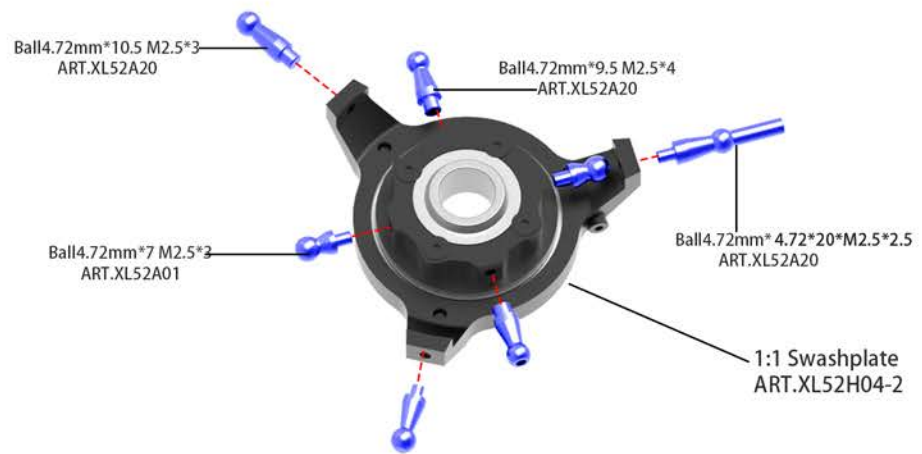
NIMBUS 550 V2

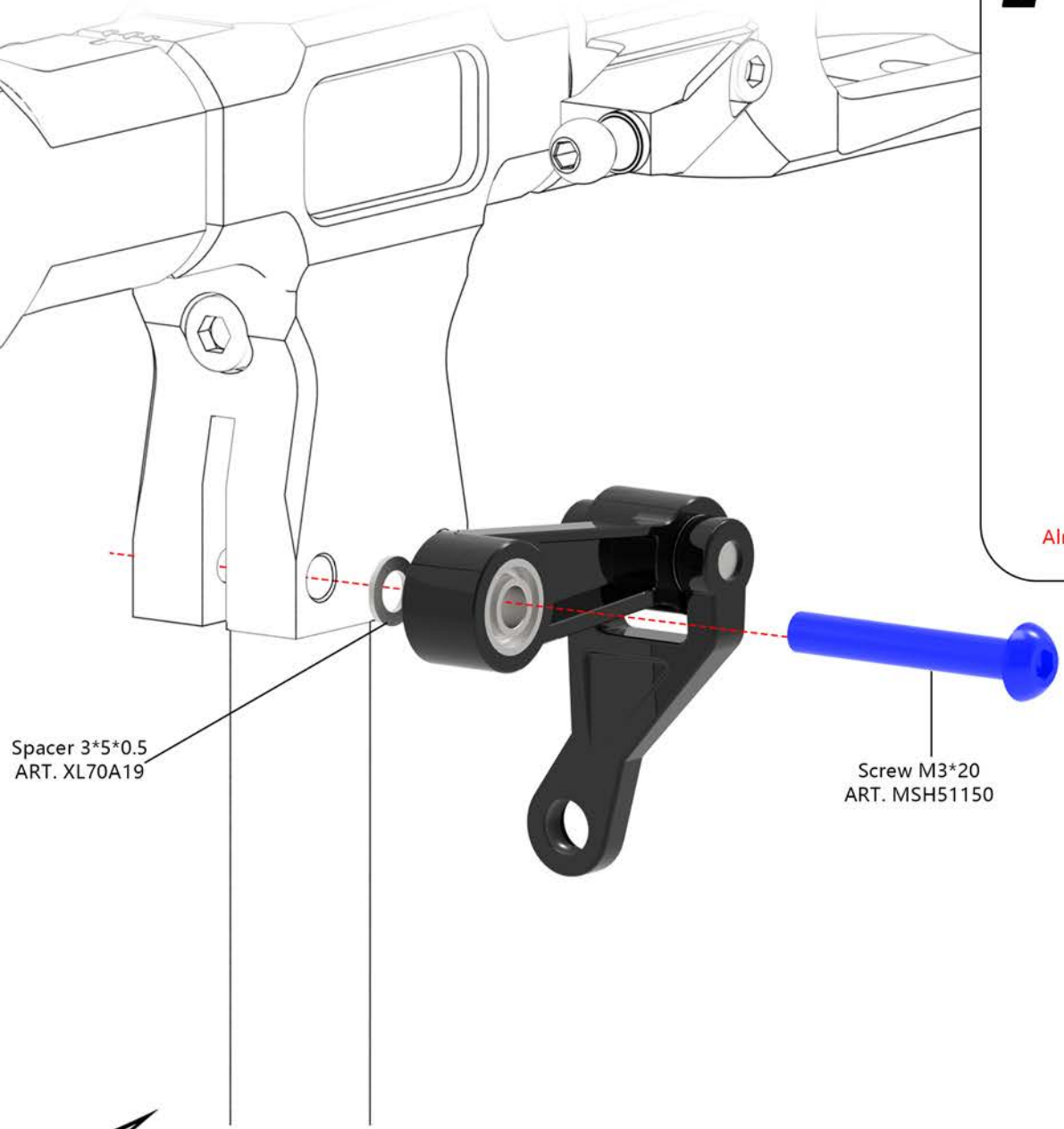
M A N U A L



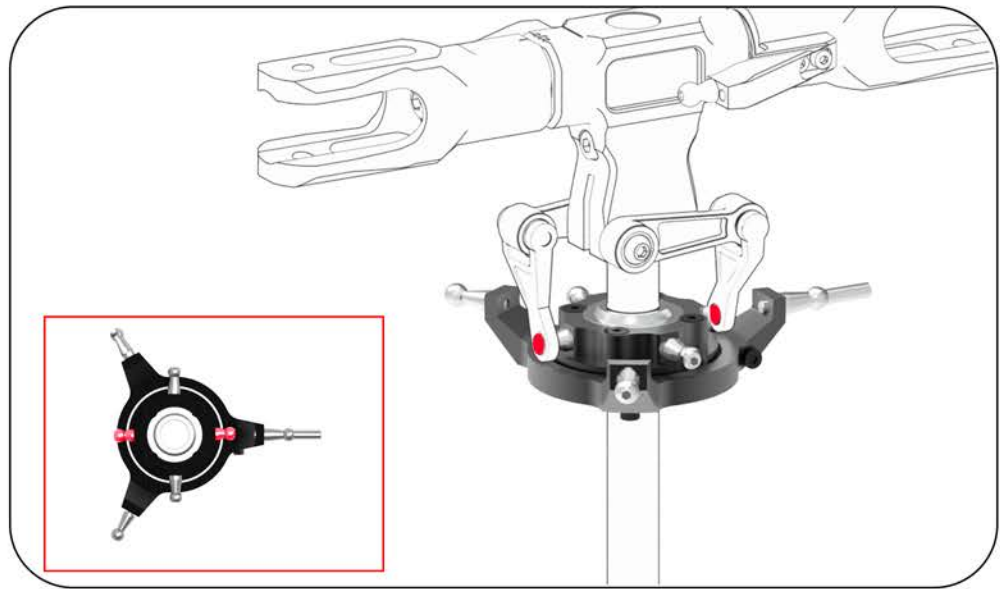
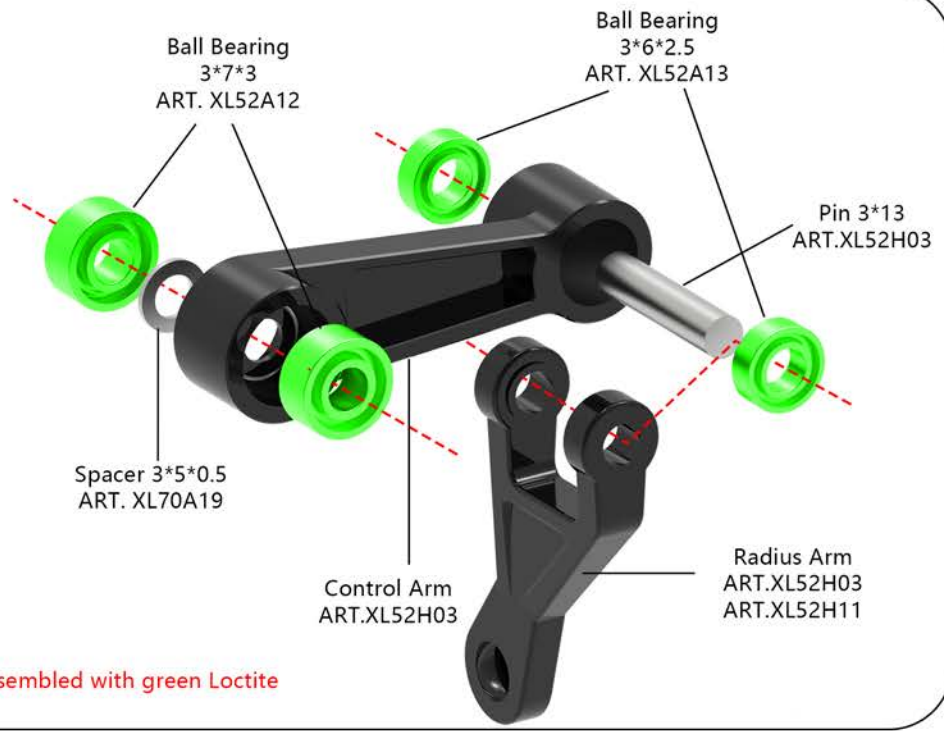
● LENGTH WITHOUT MAIN BLADES	1148MM	● WEIGHT WITH BLADES AND WITHOUT BATTERY	1560G
● OVERALL HEIGHT	302MM	● MAIN SHAFT DIAMETER	10MM
● WIDTH	206MM	● FEATHERING SHAFT DIAMETER	8MM
● TAIL ROTOR-MAIN ROTOR RATIO	4. 615	● TAIL BOOM DIAMETER	27MM
● MAIN PULLEY	106T	● BELT WIDTH	6MM
● AUTOROTATION PULLEY	60T	● MAIN GEAR WIDTH	10MM
● TAIL PULLEY	13T	● BATTERY TRAY SIZE	290MM*53. 5MM*66MM (6S-12S)
● MAIN GEAR RATIO	9. 63 (8. 15-9. 63 OPTIONAL)		



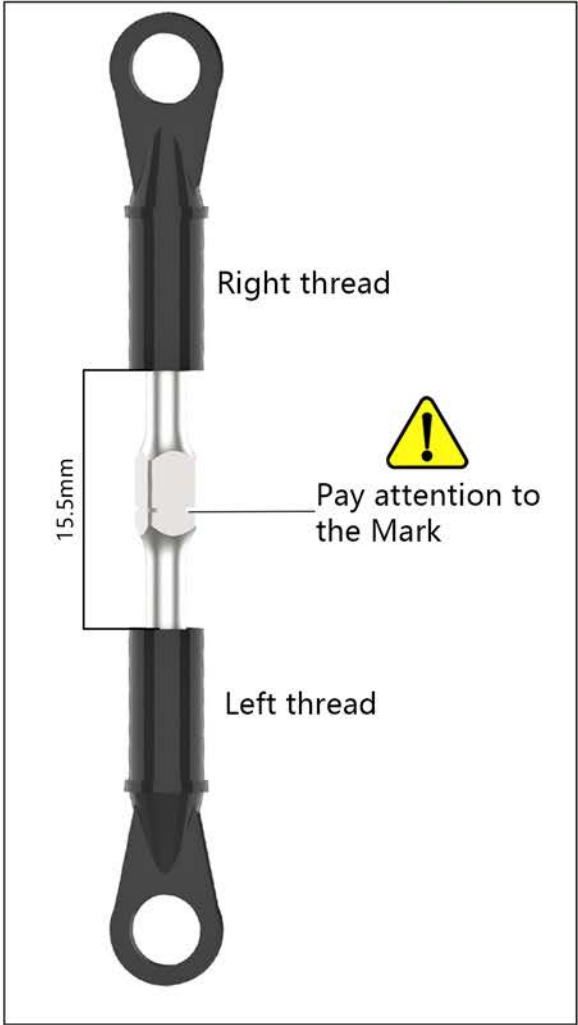




2x



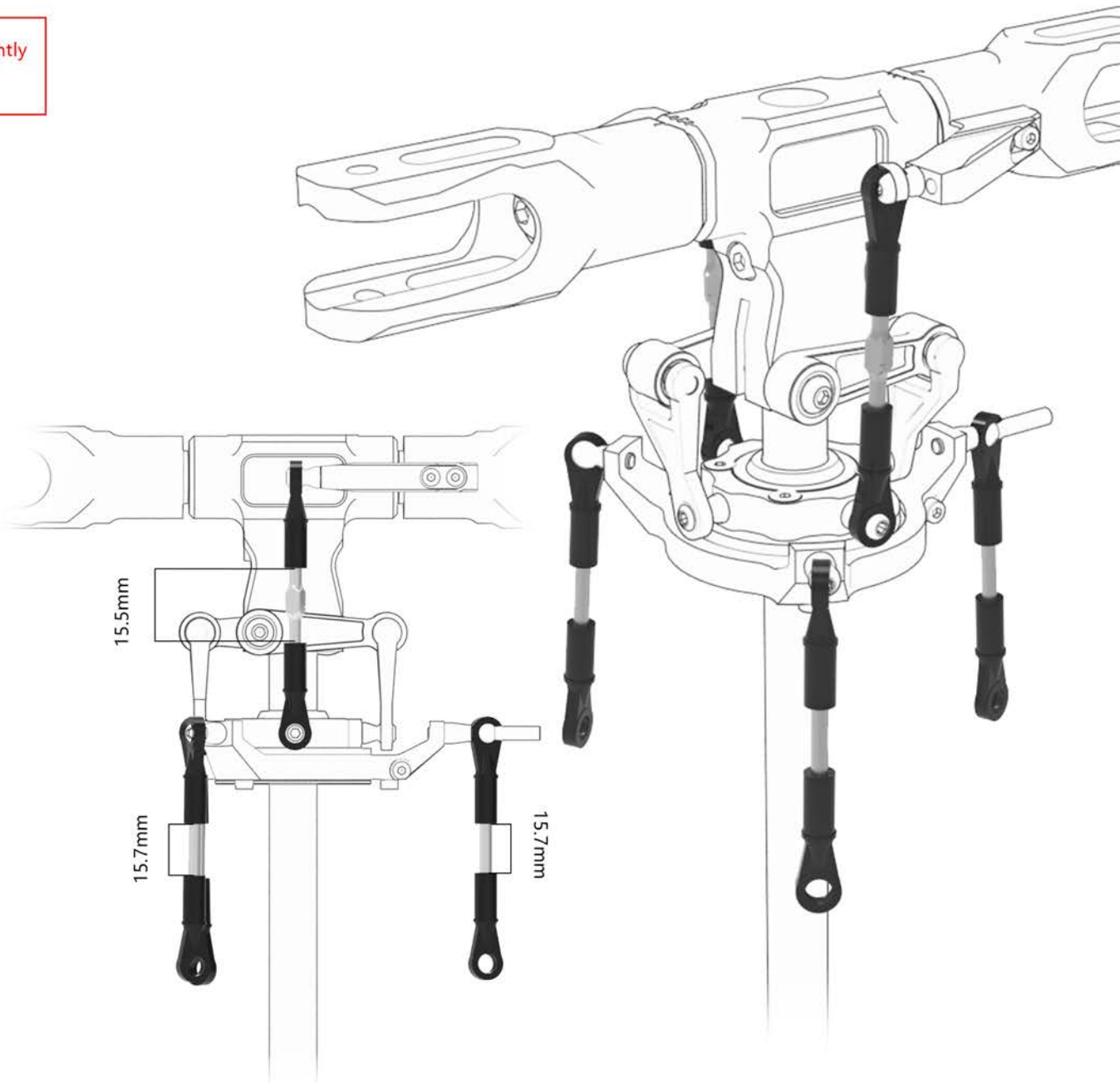
Servo rod length may differ slightly with diferent servo brands

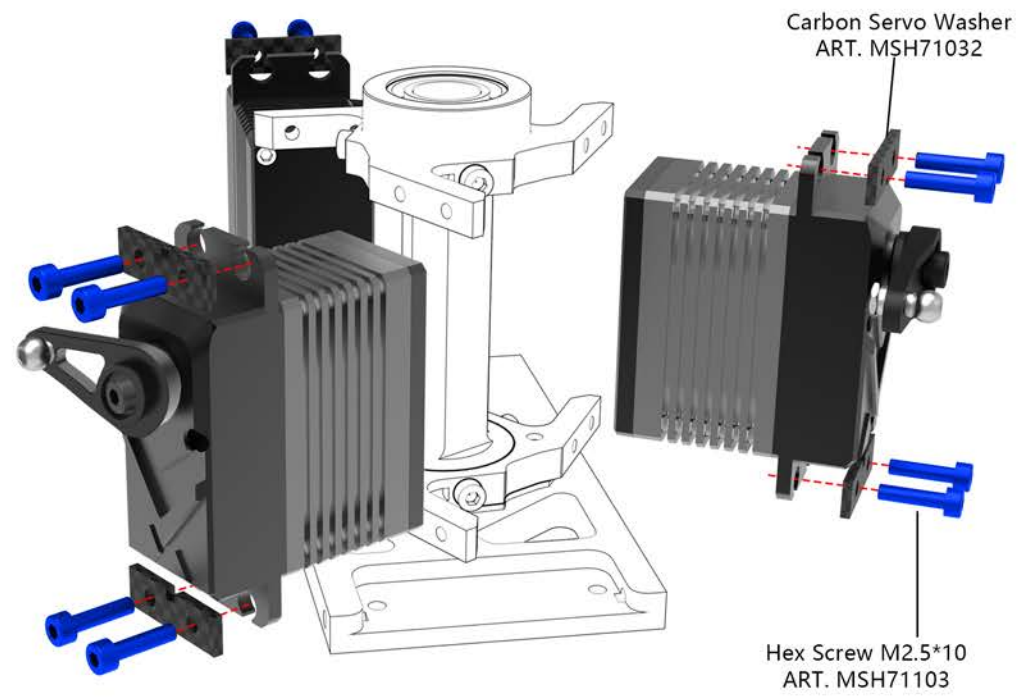
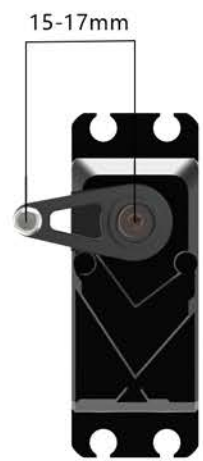
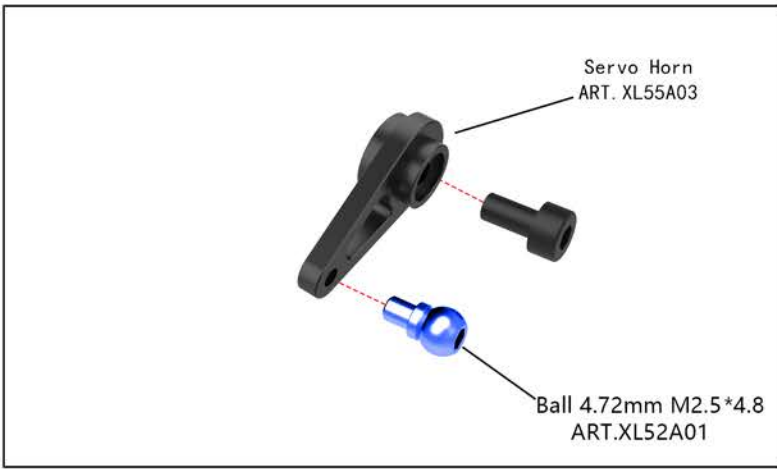
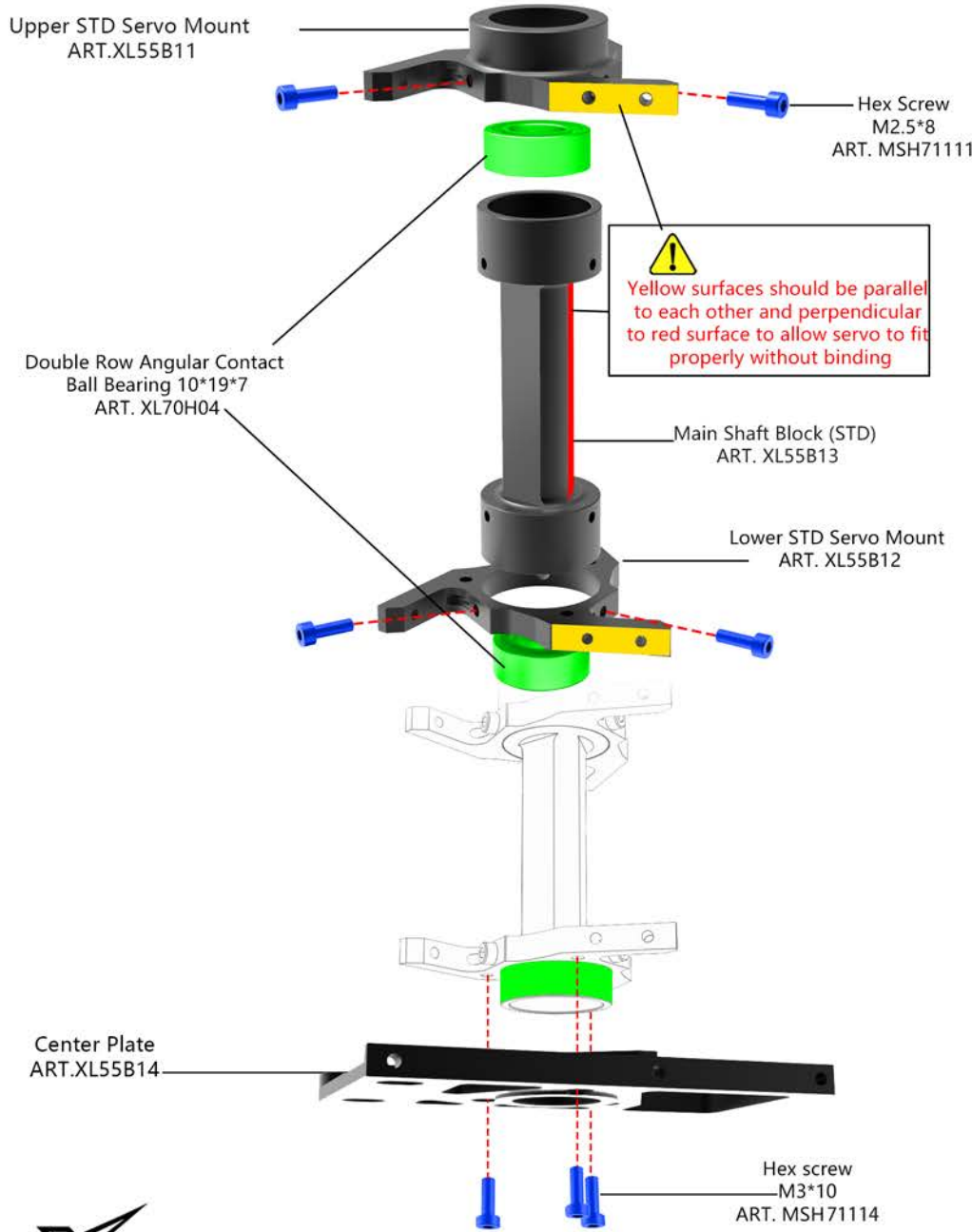


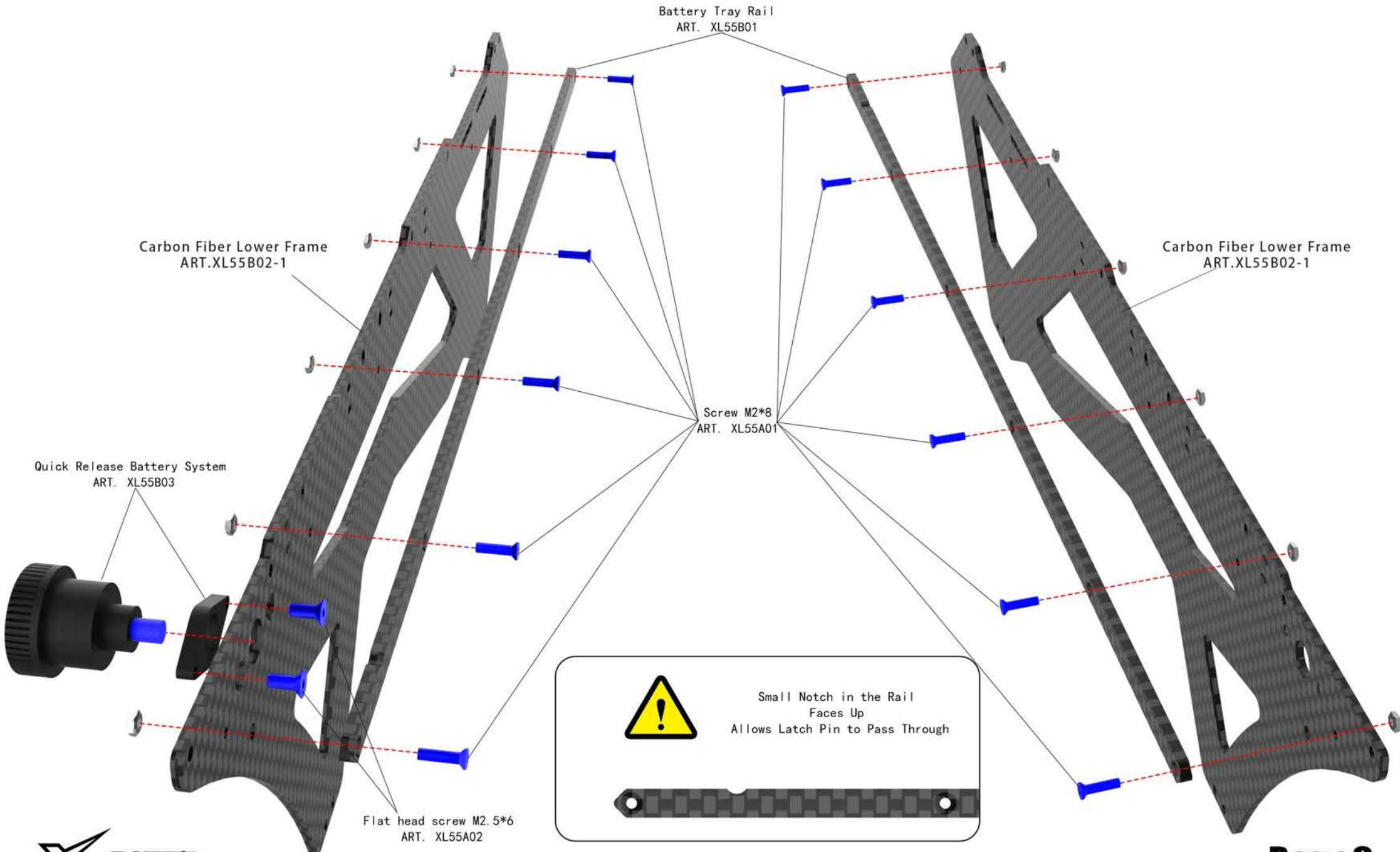
Main Rotor Linkage
ART. XL52H12



Servo Rod
ART. XL52H13





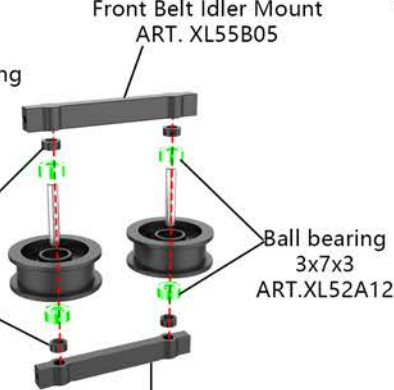




Step side Faces bearing



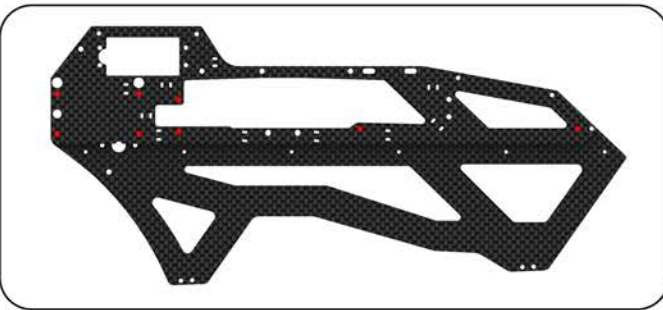
Special washer
ART. XL52B11

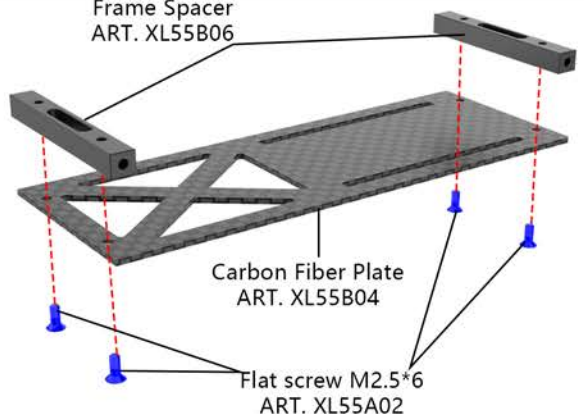


Front Belt Idler Mount
ART. XL55B05

Ball bearing
3x7x3
ART. XL52A12

Front Belt Idler Mount
ART. XL55B05

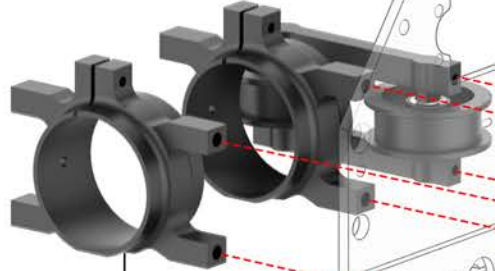




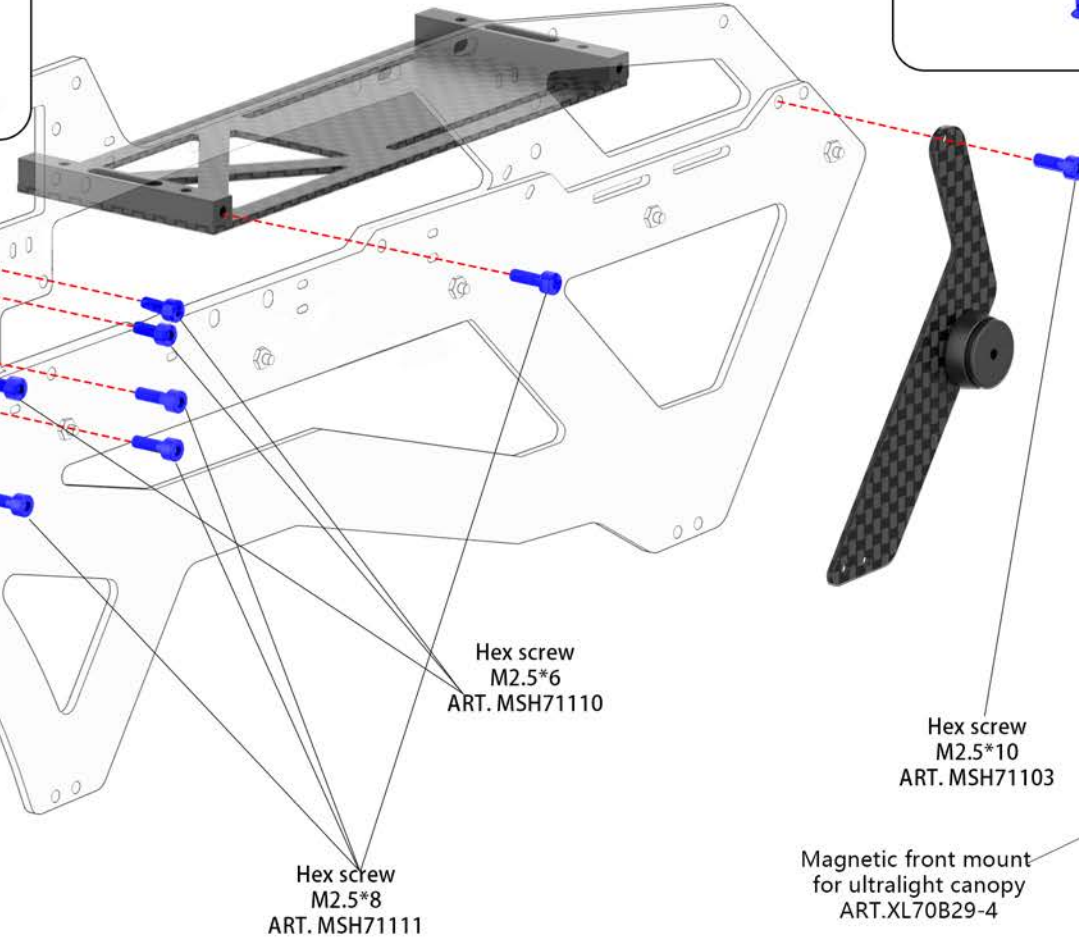
Frame Spacer
ART. XL55B06

Carbon Fiber Plate
ART. XL55B04

Flat screw M2.5*6
ART. XL55A02



Tail Boom Clamp (Remove M2.5*5 screw first)
ART. XL55B07

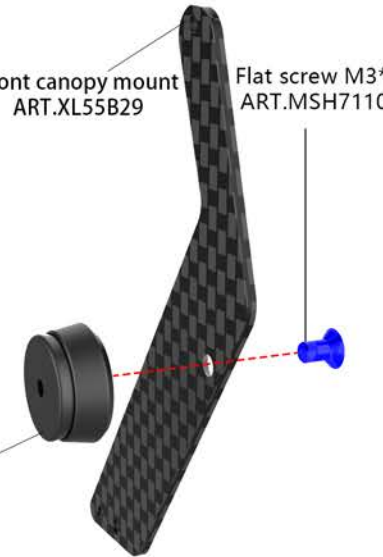


Hex screw M2.5*6
ART. MSH71110

Hex screw M2.5*8
ART. MSH71111



Please note the orientation of the tail boom clamp must be fitted in the same way as the picture.

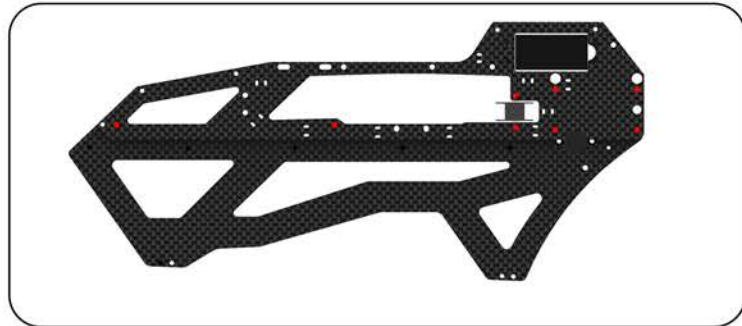
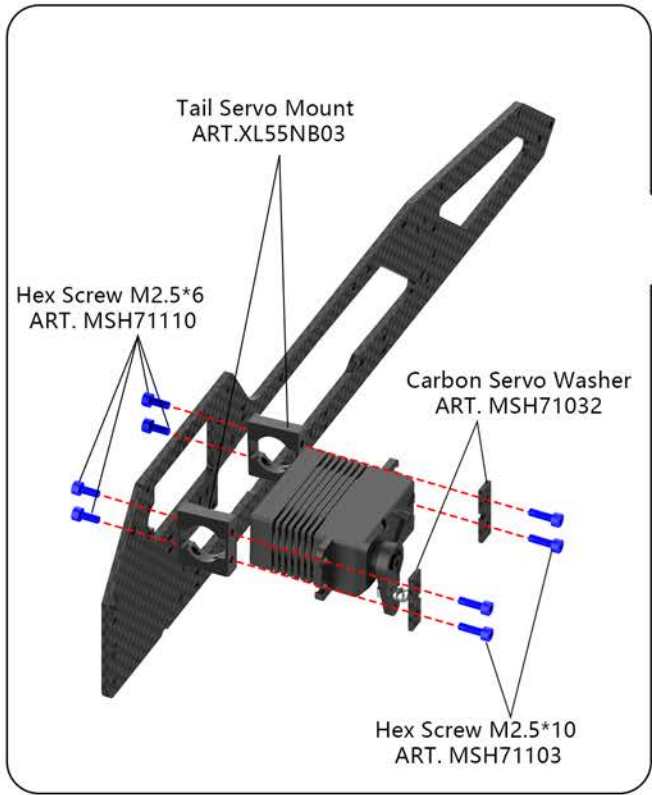


Front canopy mount
ART. XL55B29

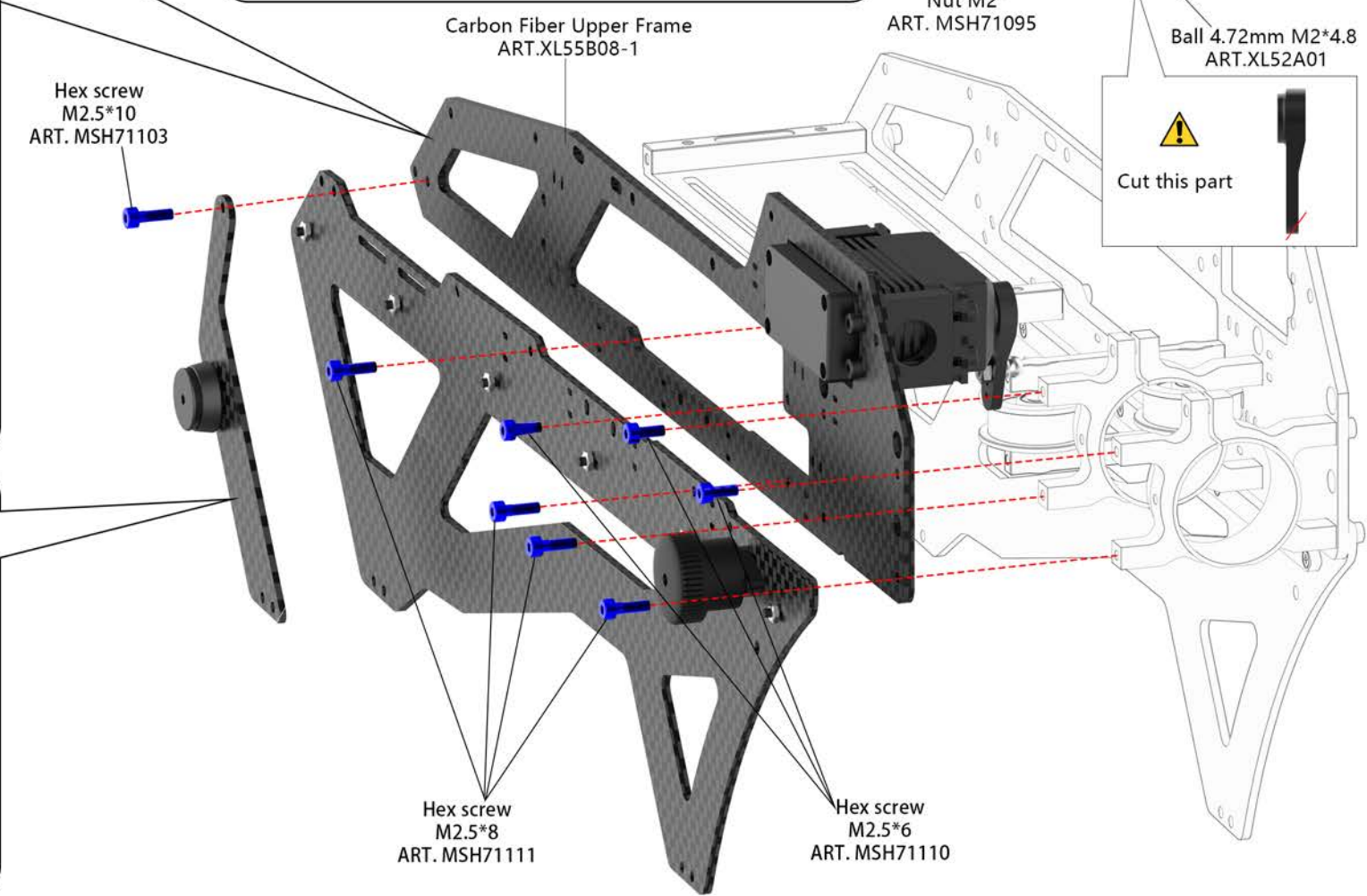
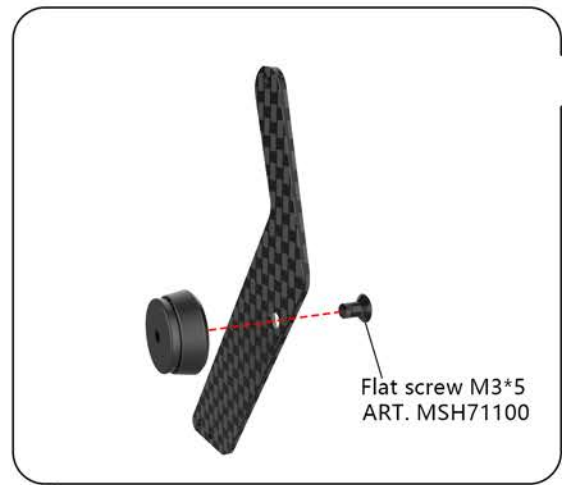
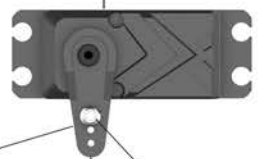
Flat screw M3*5
ART. MSH71100

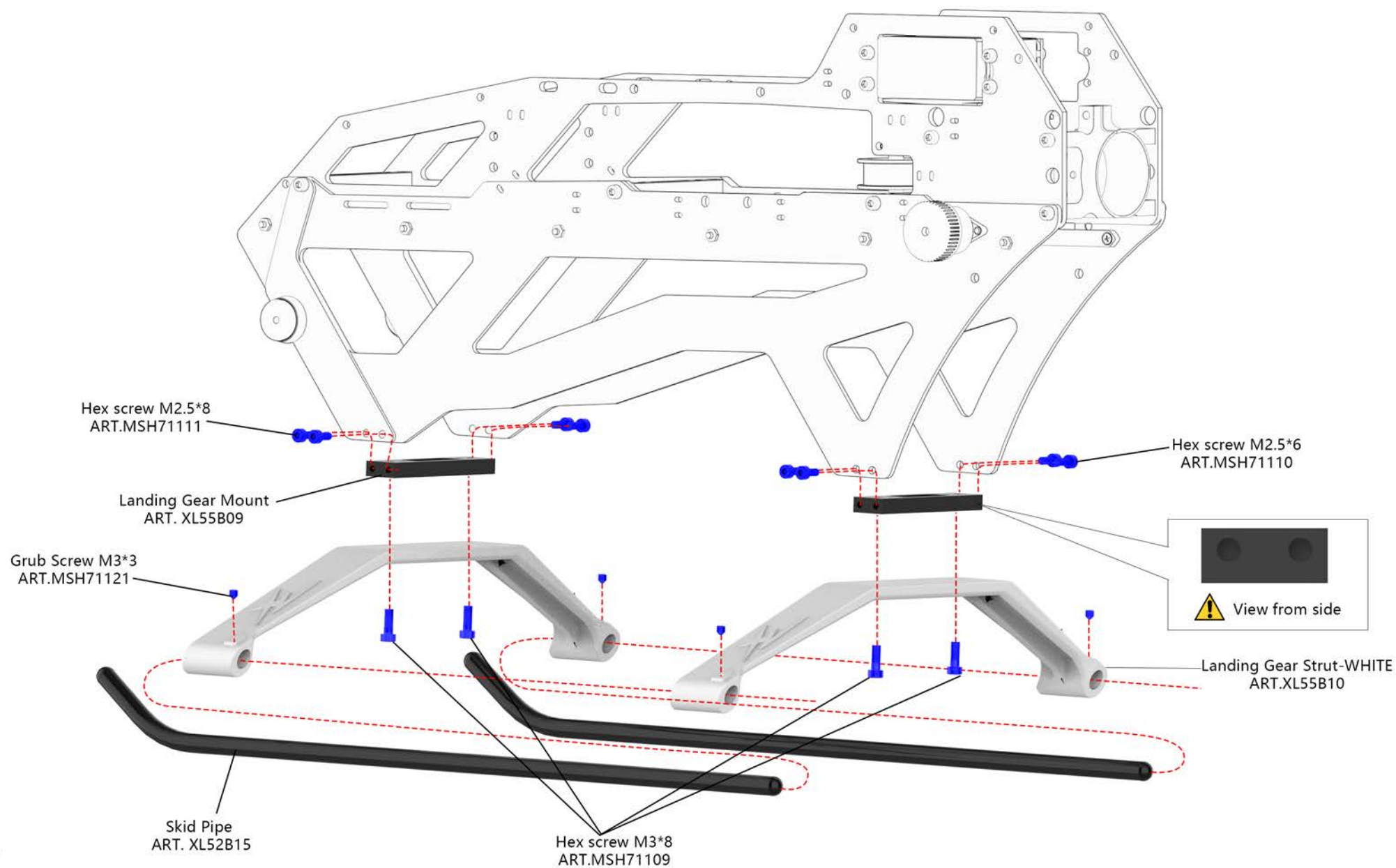
Hex screw M2.5*10
ART. MSH71103

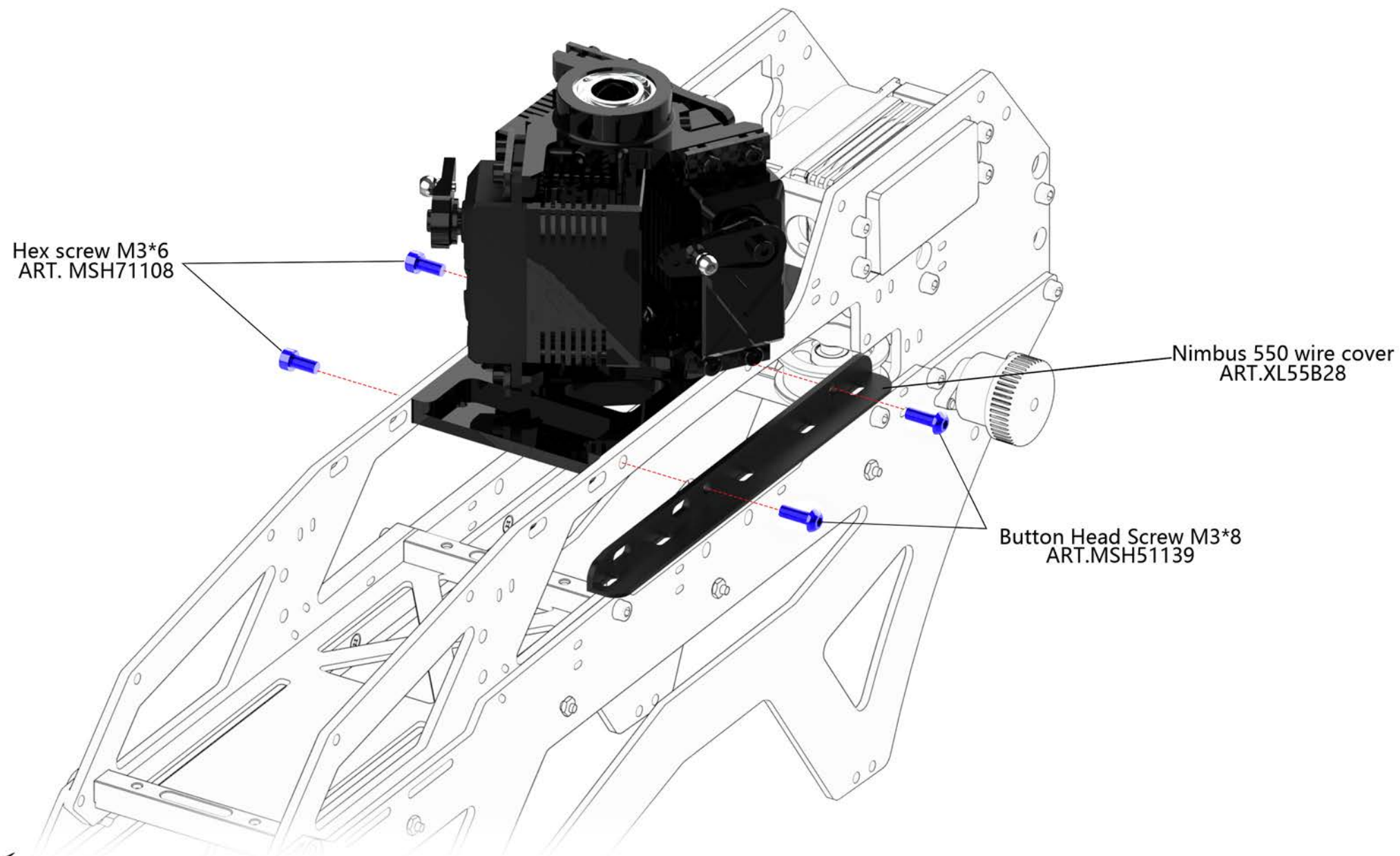
Magnetic front mount for ultralight canopy
ART. XL70B29-4

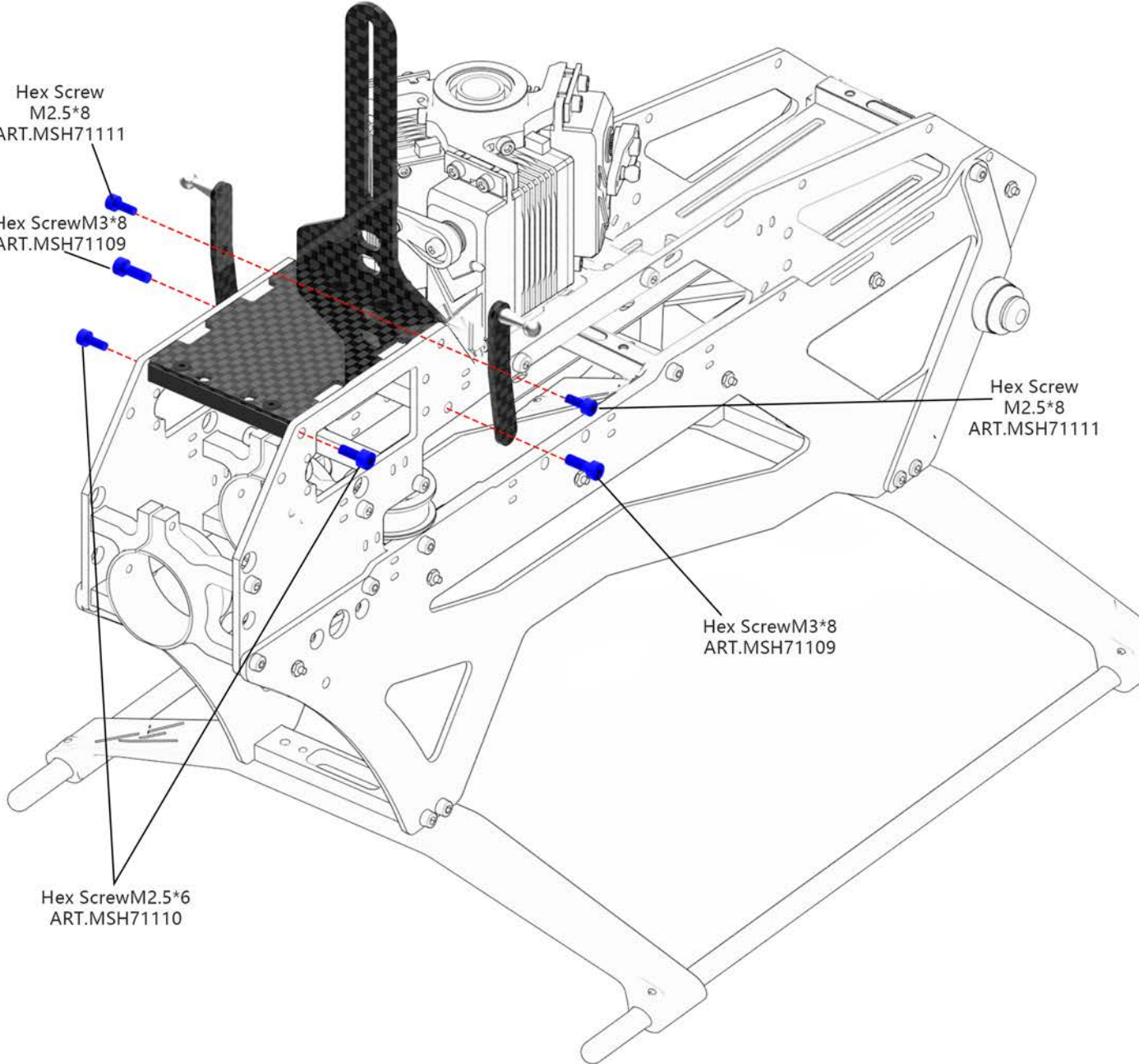
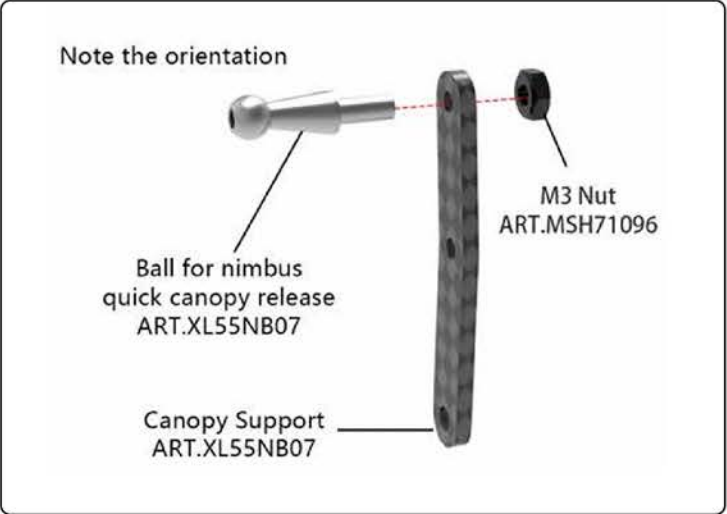
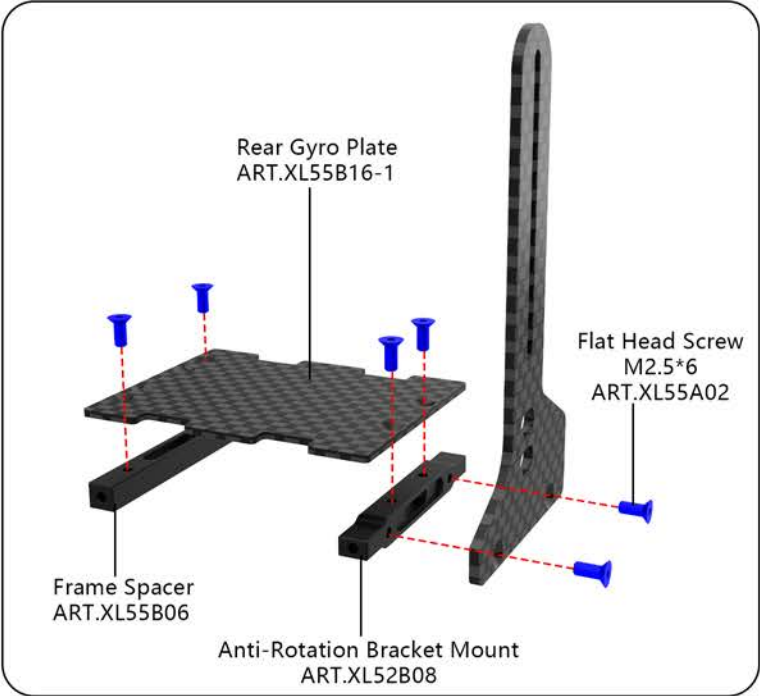


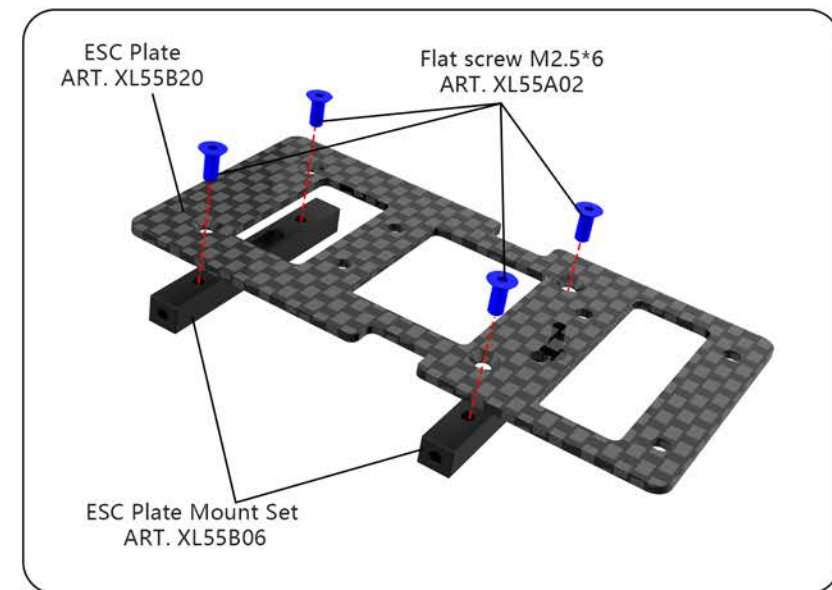
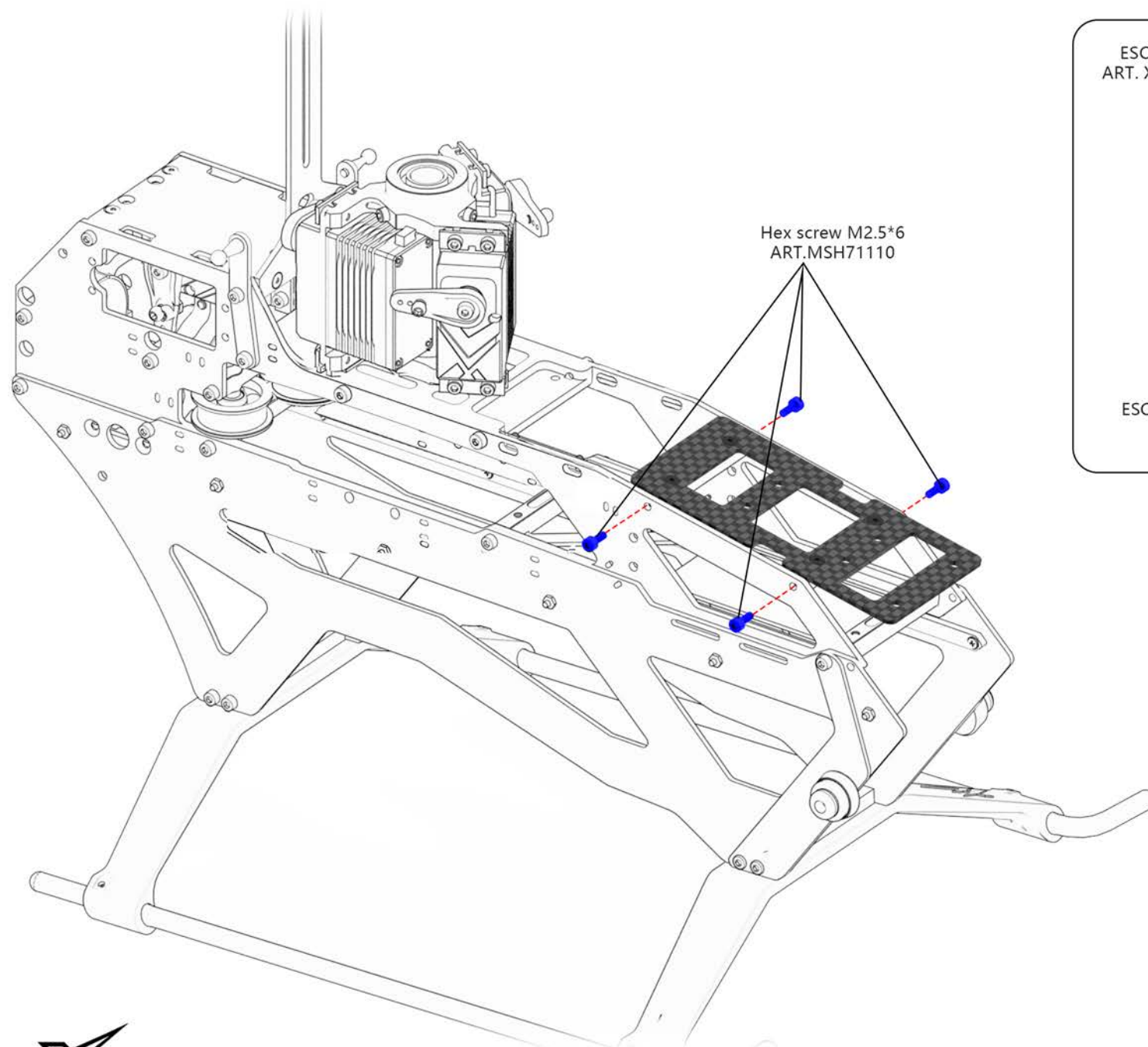
10-14mm
Depends on servo resolution.
Choose hole for optimal
endpoints in FBL

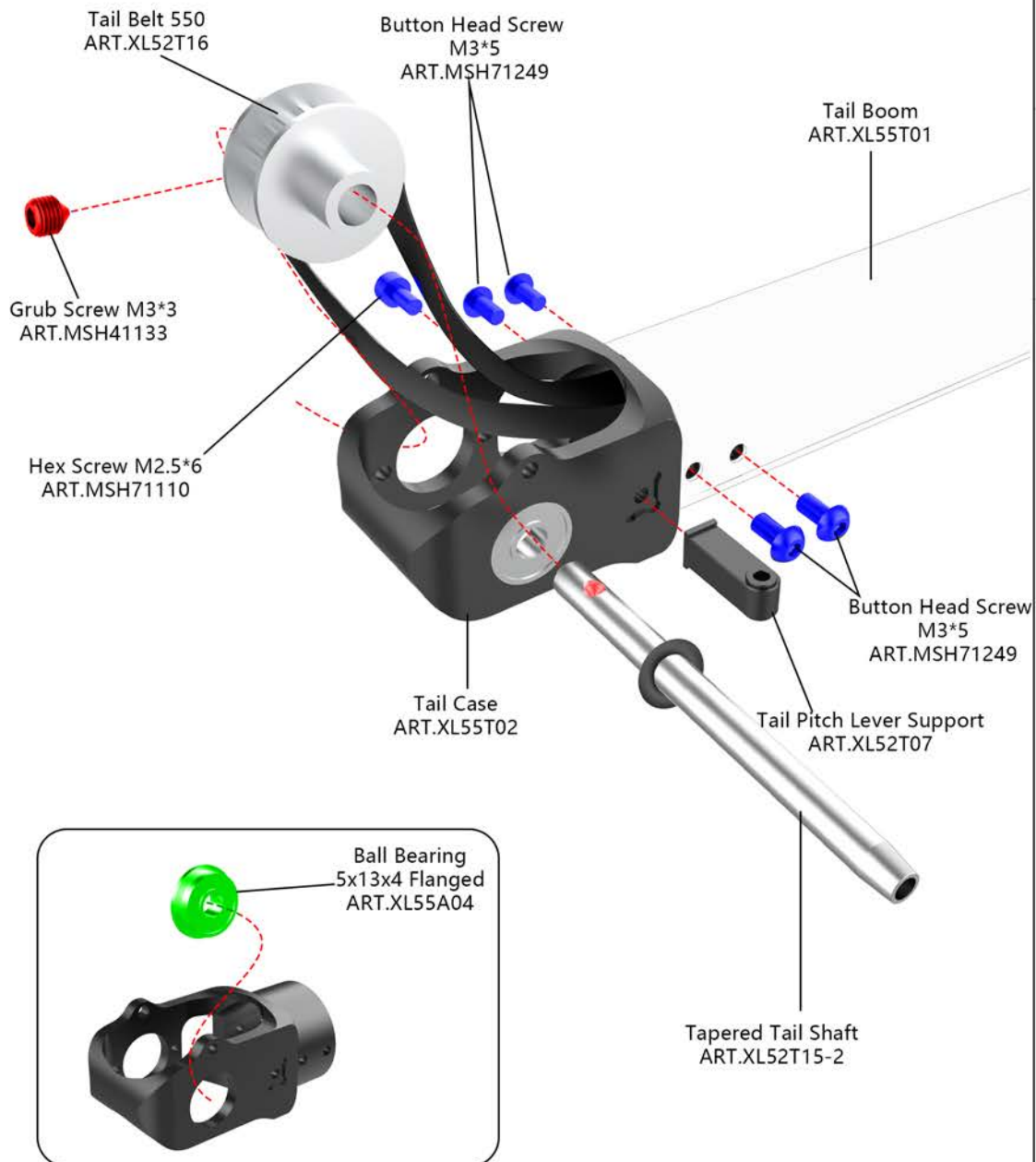












Hex Screw M3*30
ART.MSH71115
Do not overtighten
otherwise idler may
not spin freely

Hex Screw M2.5*5
ART.MSH41123

Rear Belt Idler Pulley
ART.XL55T04

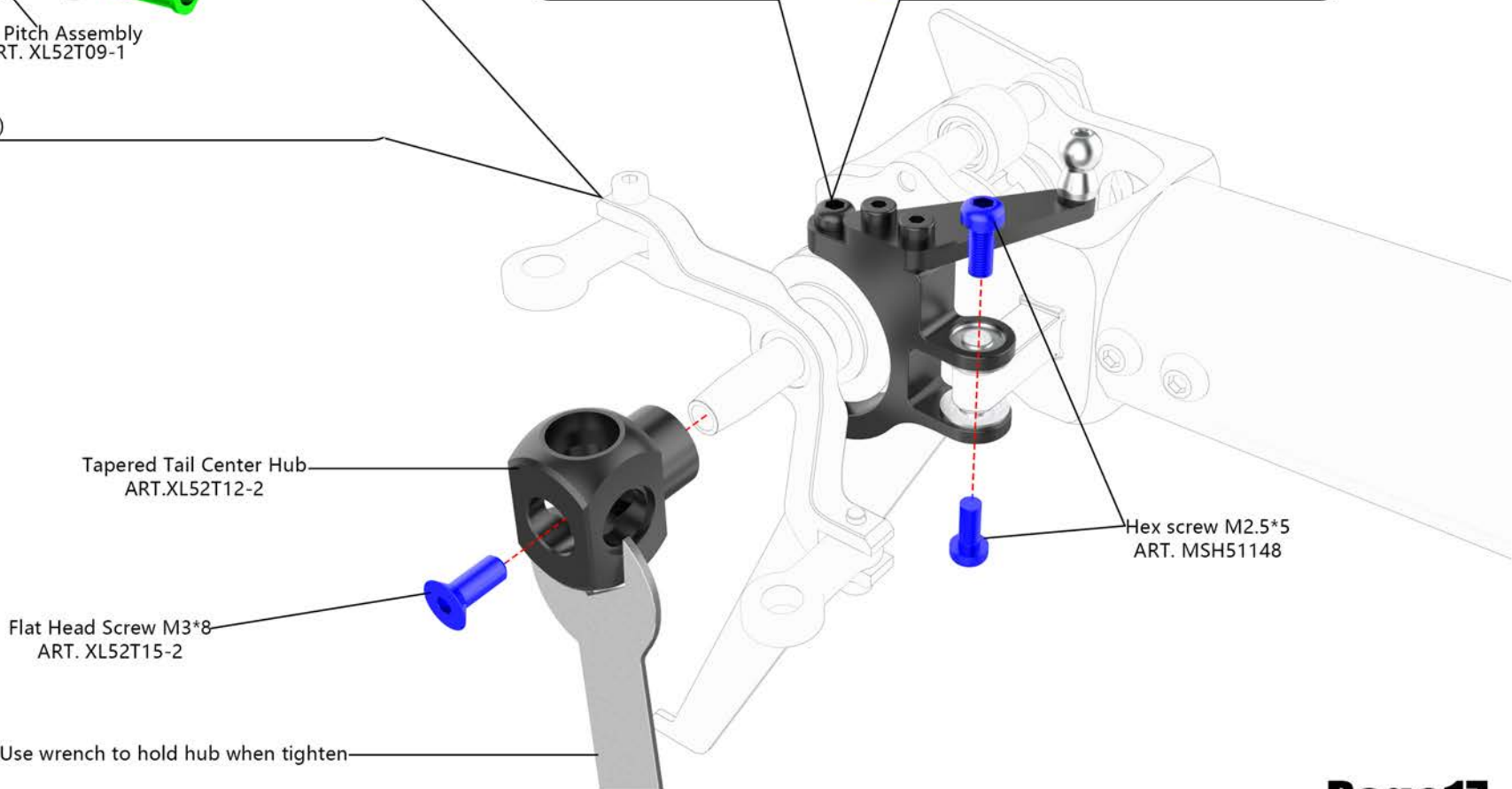
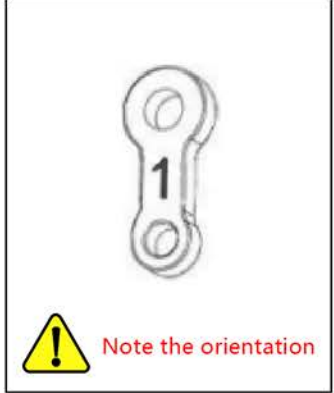
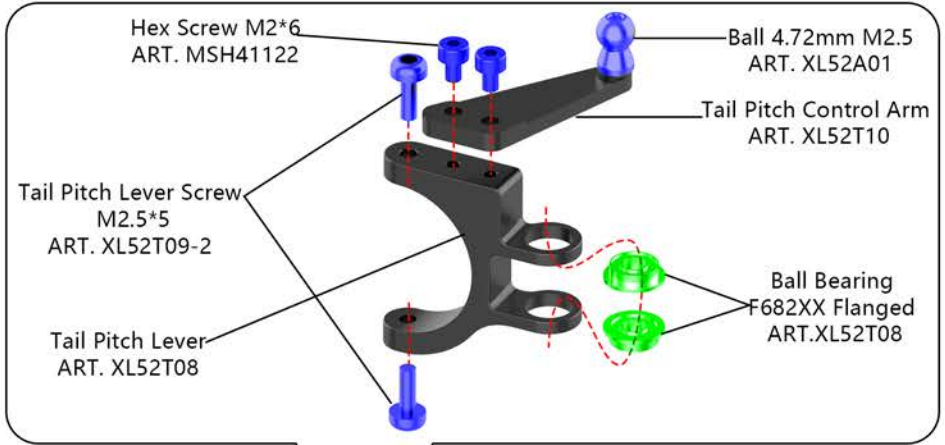
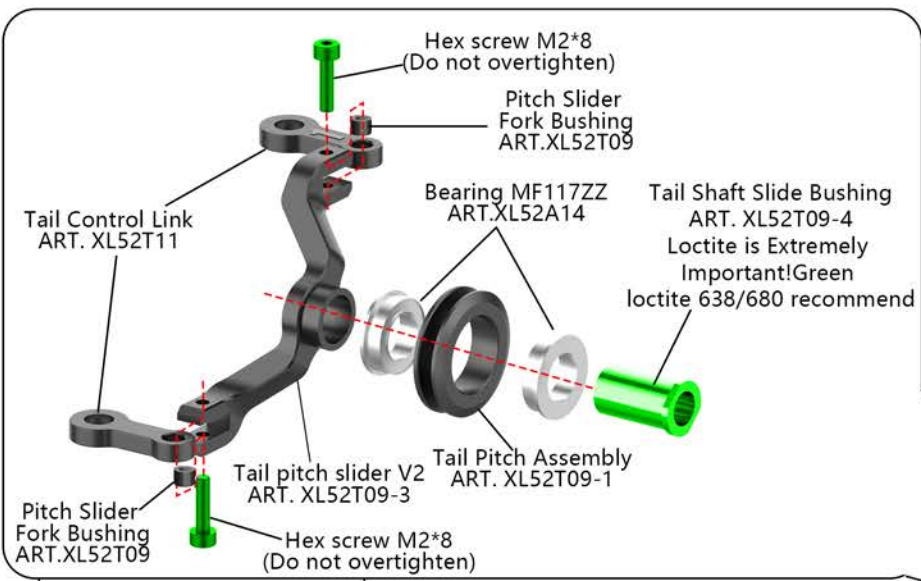
Spacer 3*5*0.5
ART.XL70A19

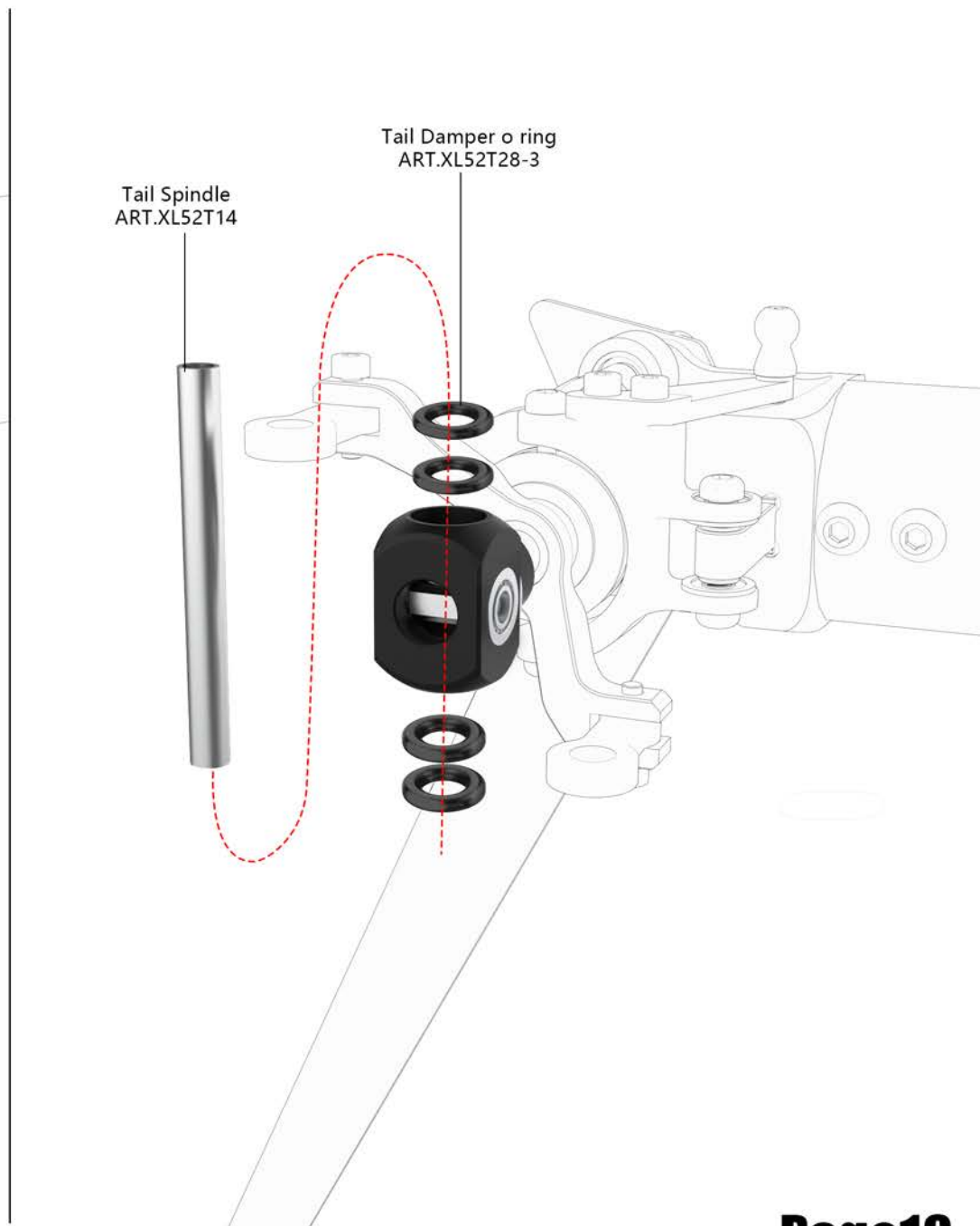
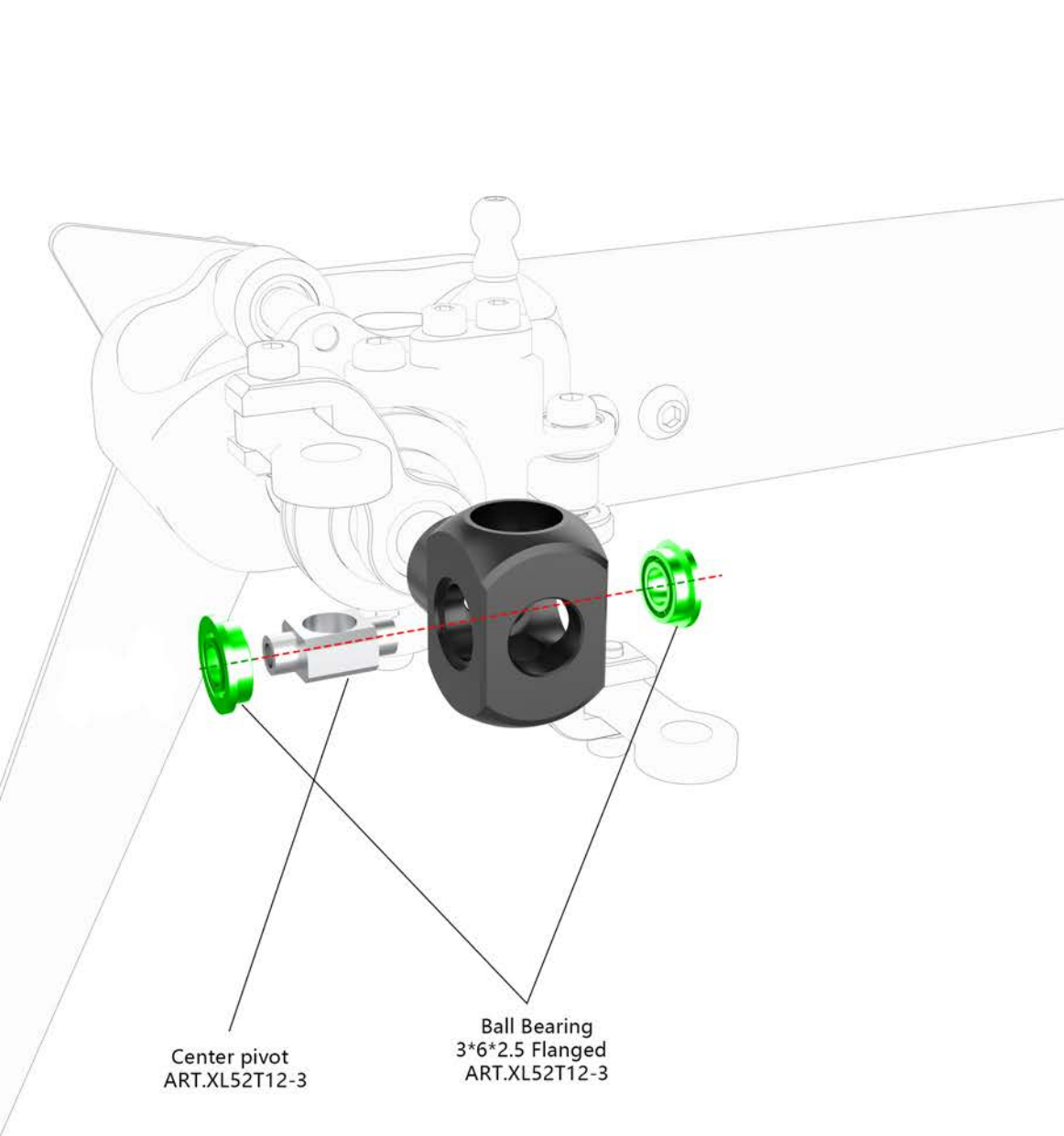
Ball Bearing 3*7*3
ART.XL52A12

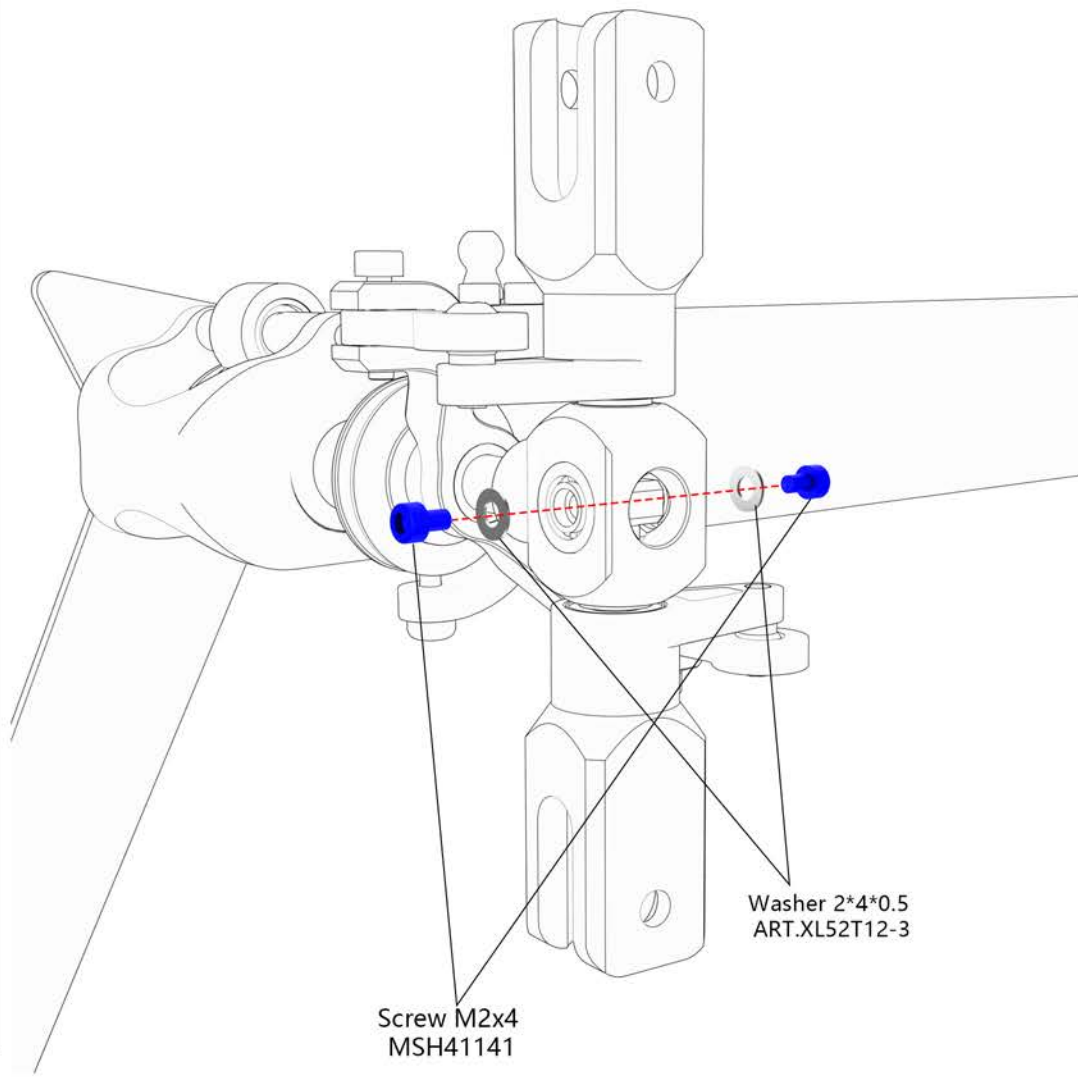
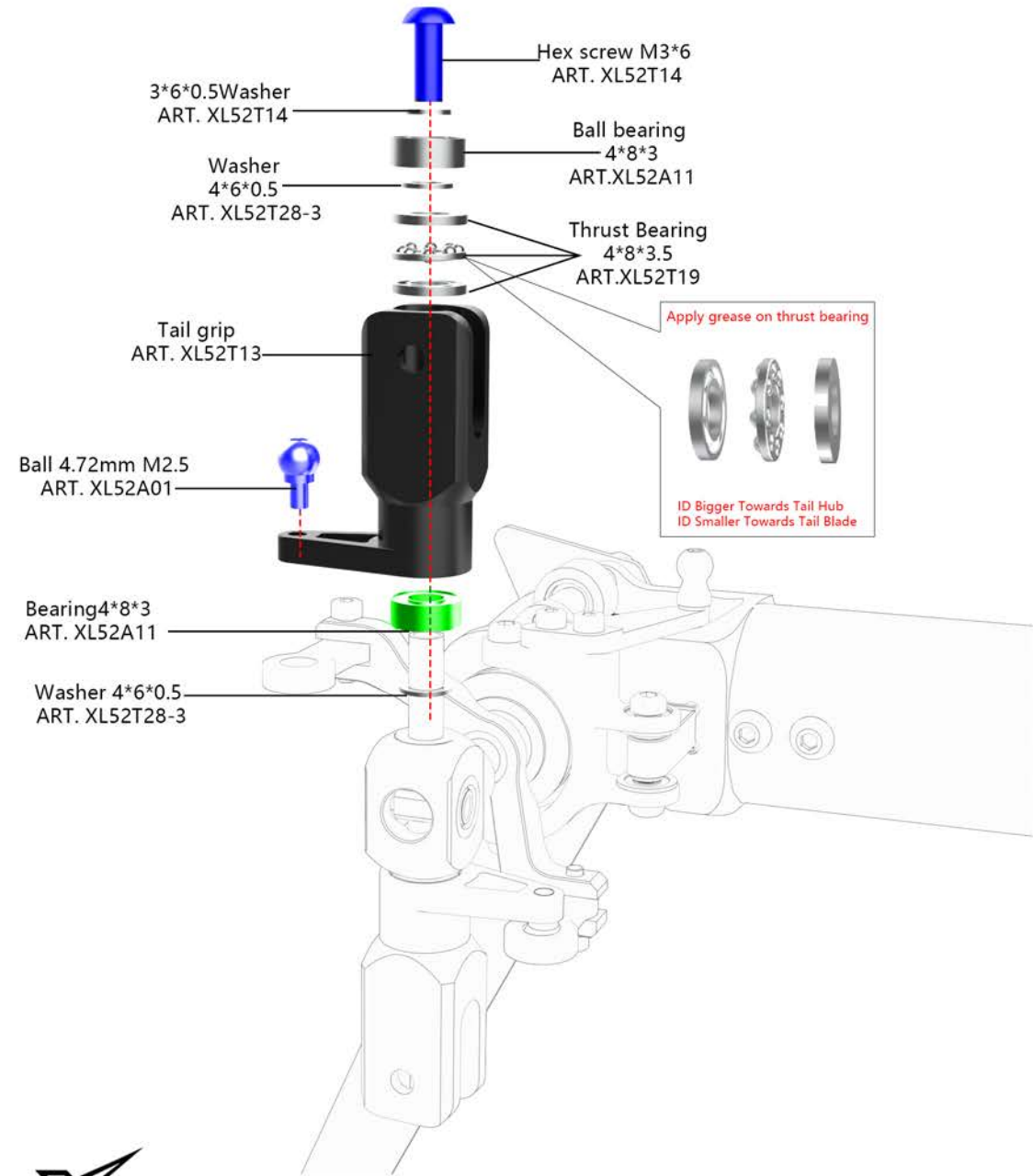
Spacer 3*5*8
ART.XL55T04

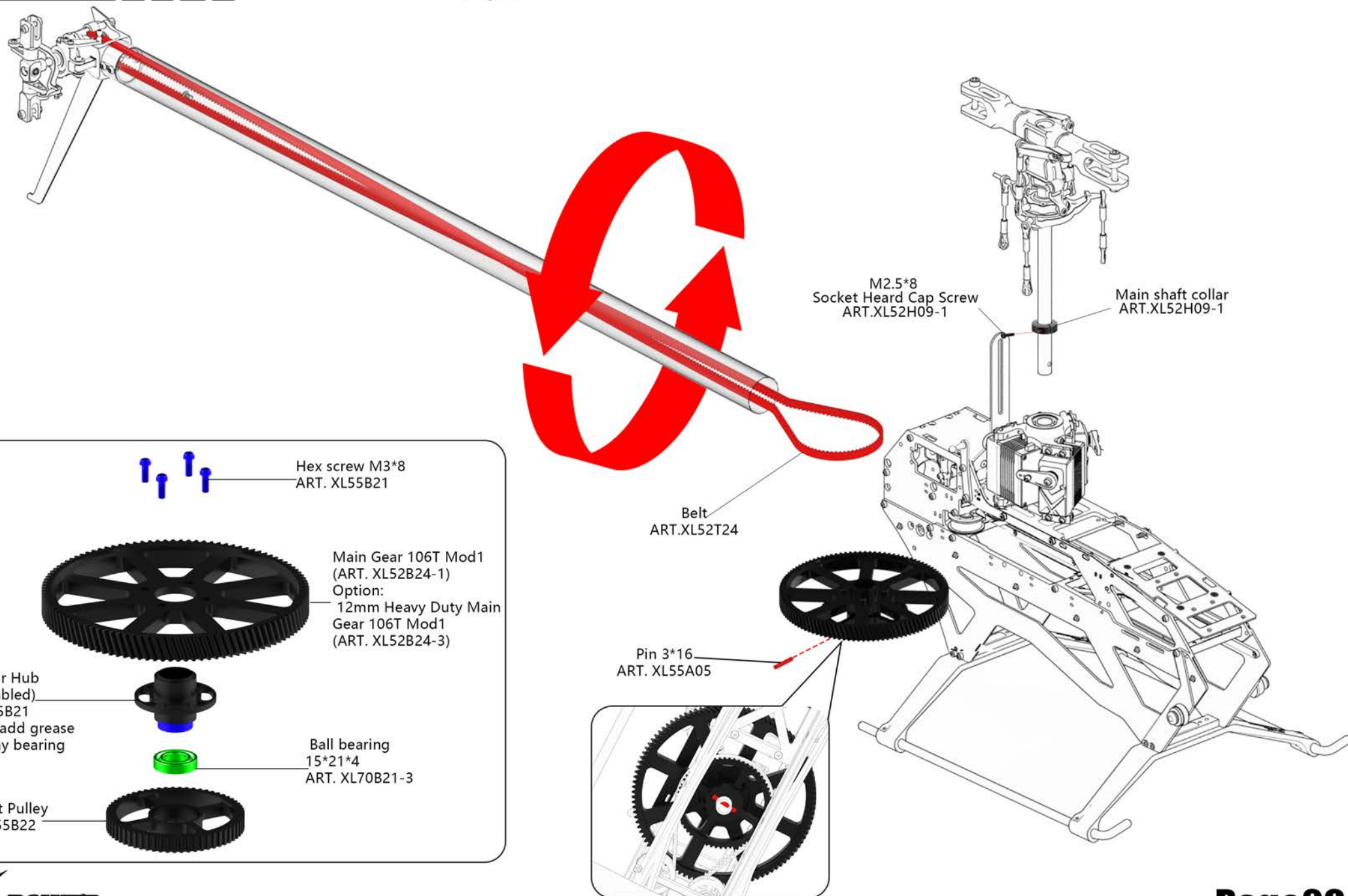
Ball Bearing 5*13*4
ART.XL55A04

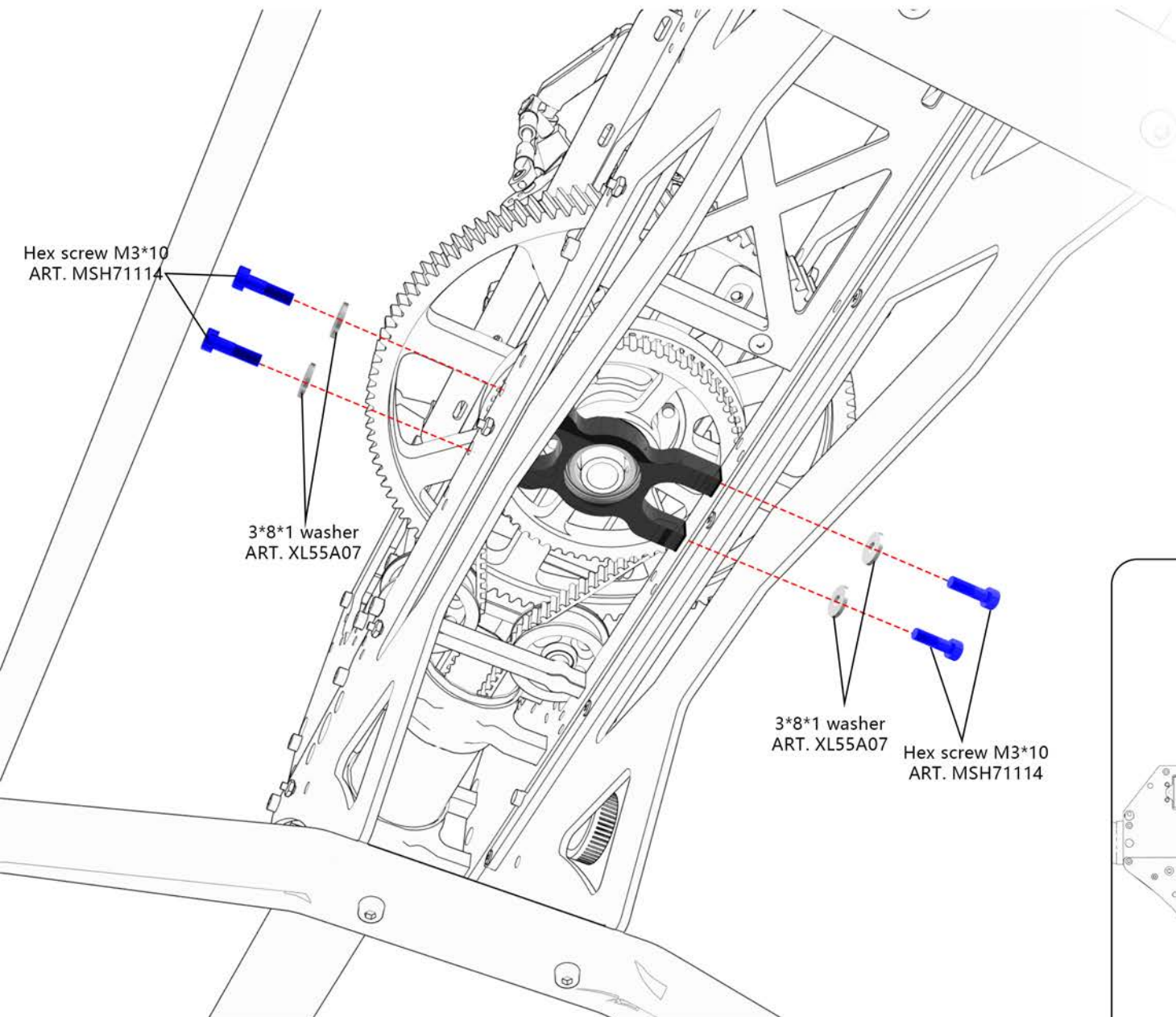
Tail Fin
ART.XL55T03
Optional: ART.XL55T03-1







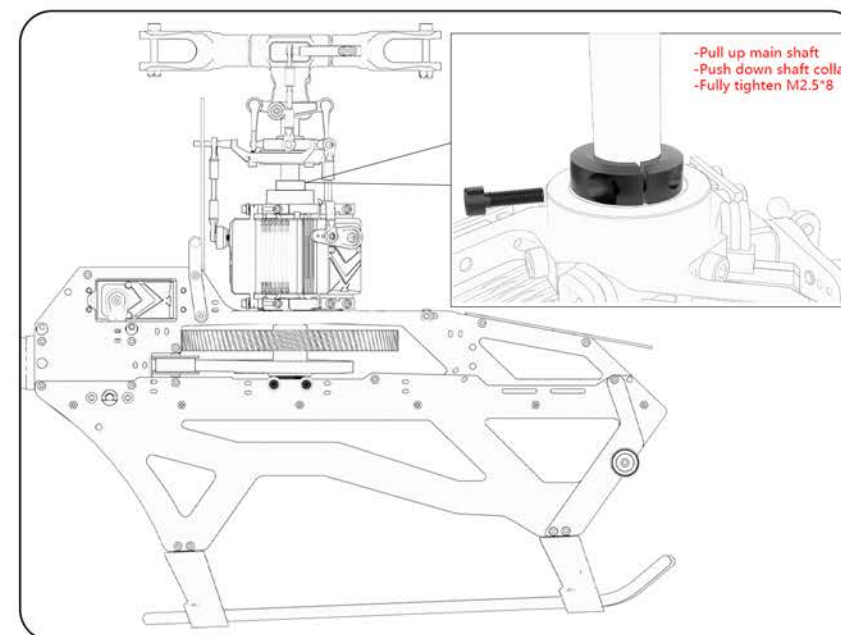




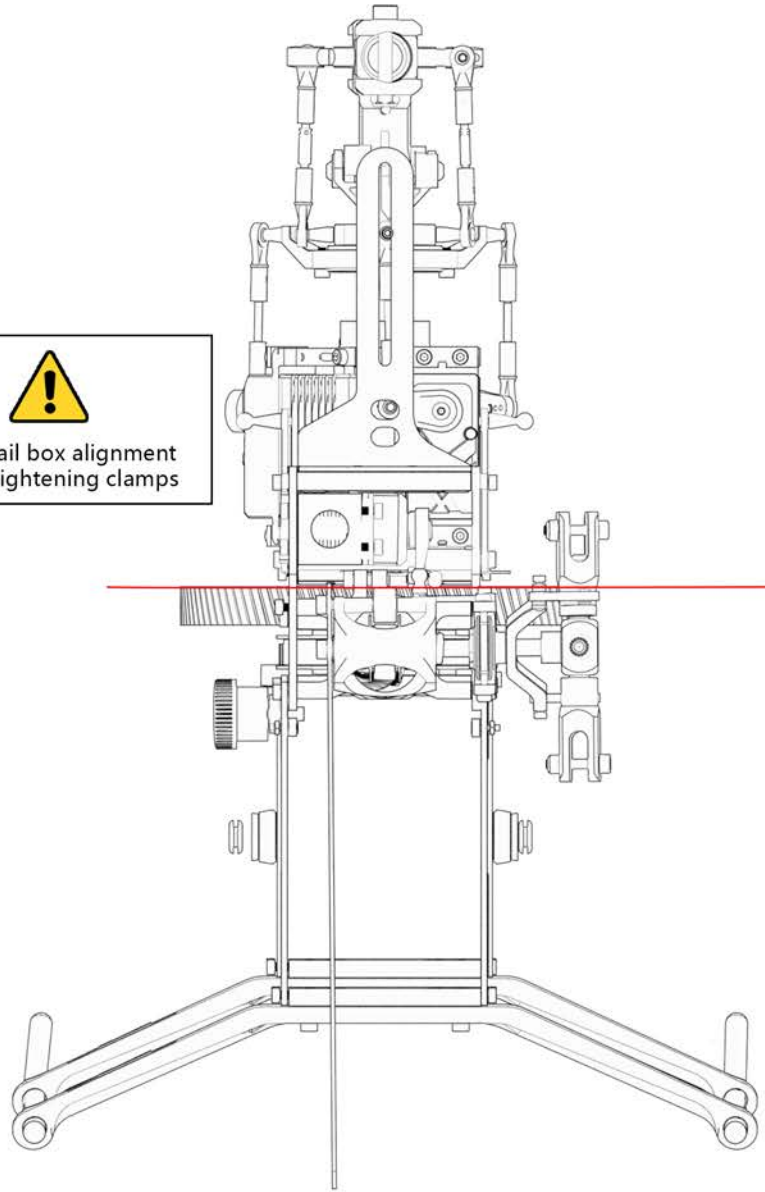
Double Row
Angular Contact
Bearing
10*19*7
ART. XL70H04



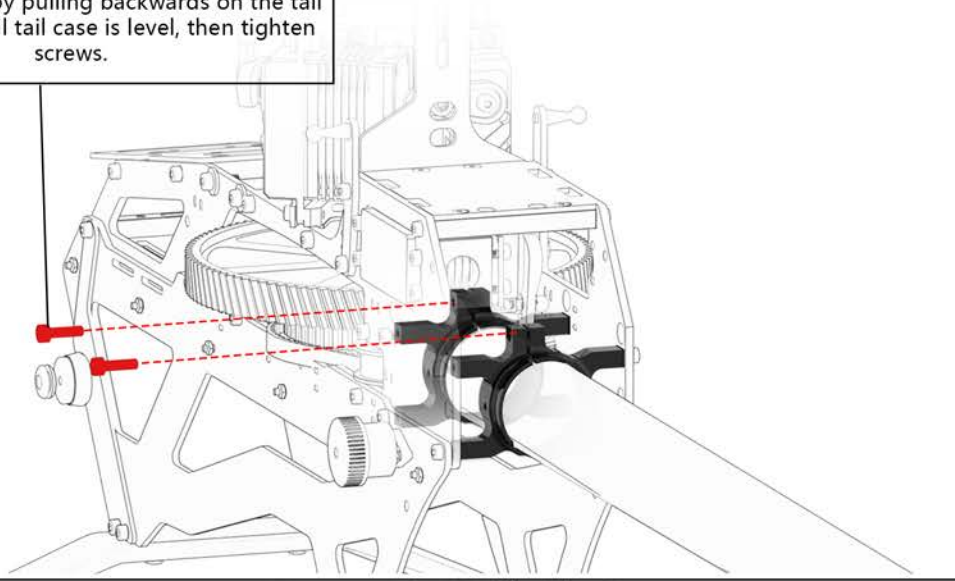
Third Bearing Block
(Not included in XL55V2K01)
ART. XL55B23



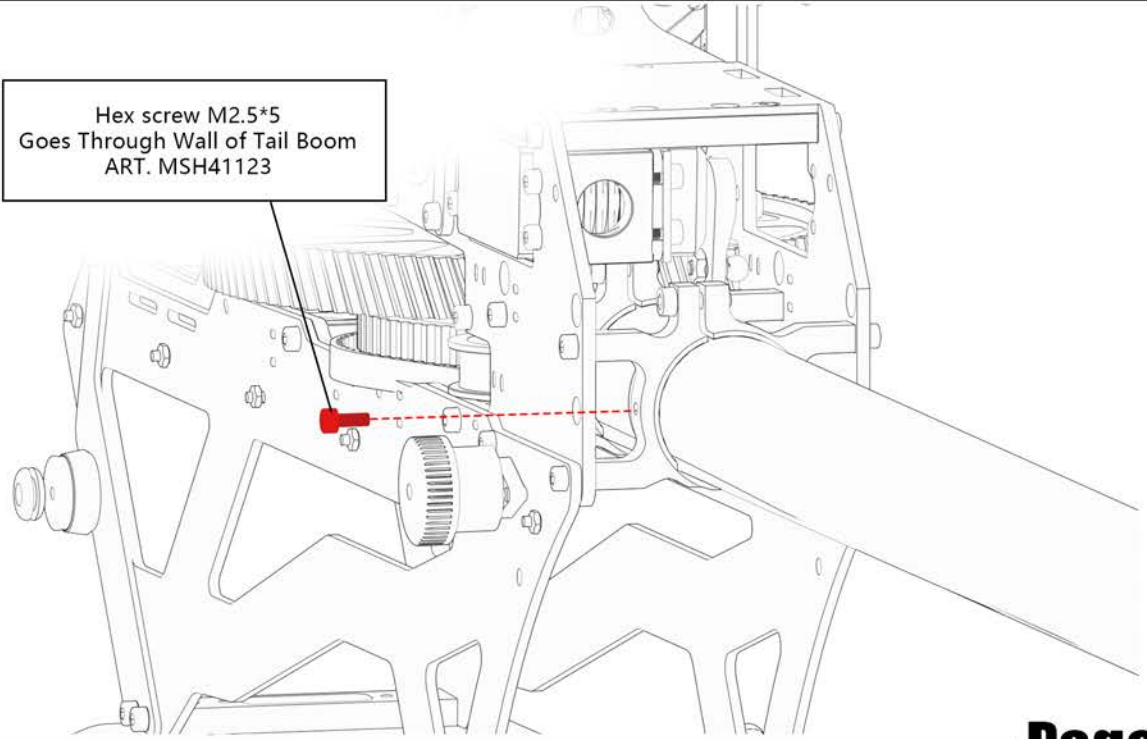

Ensure tail box alignment
before tightening clamps

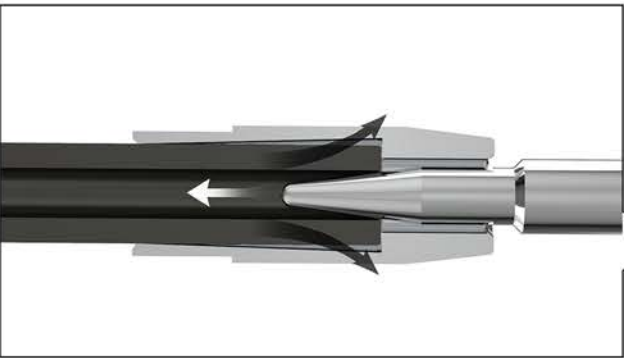


Hex screw M3x10
Set belt tension by pulling backwards on the tail boom. Ensure tail tail case is level, then tighten screws.



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





PTFE Heat Shrink(Loctite 401 Glue)

Tail Pushrod End
ART.XL55T08

Tail Pushrod End Linkage Screw
ART.XL55T08

Use a piece of masking tape as a reference to ensure that pushrod does not move when tightening

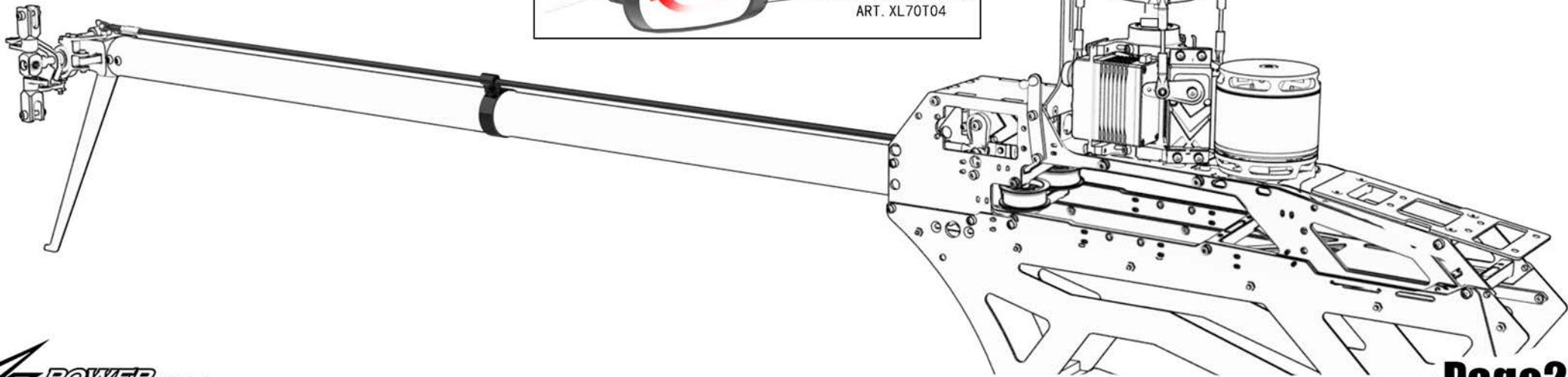
Ball Link 4.75mm M2.5
ART.XL52A02

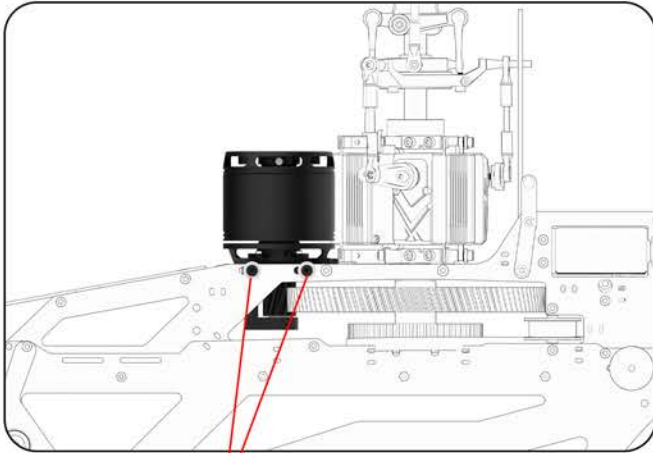
Tail Linkage Rod
ART.XL52T23

Hex Screw
M2*8
ART. XL70T04

M2 Nut

Tail Pushrod Guide
ART. XL70T04



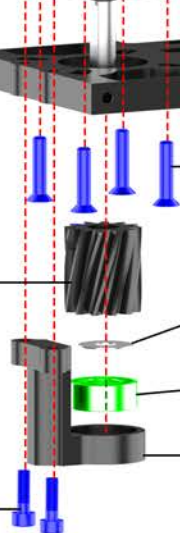


4020-4035 500-1200kv
motor 5/6mm shaft
(20mm length min)(not
included)
ART. XL52M01
XL52M03



Use A4 printer paper to set
gear mesh at the lowest point,
push pinion into gear, then
tighten 2 screws on each side.
and the top 2 screws

HD Motor pinion 11T
ART. XL52G11
Included in Kit
Option:
XL52G12-1
XL52G13-1
Use bushing when motor
shaft is 5mm



Motor Mount Upper
ART. XL55B24

Flat screw M3*10
ART. MSH71099

Washer
6*8*0.1
ART. XL48A02

Bearing
6*13*5
ART. XL70A06-1

Motor Mount lower
ART. XL55B25

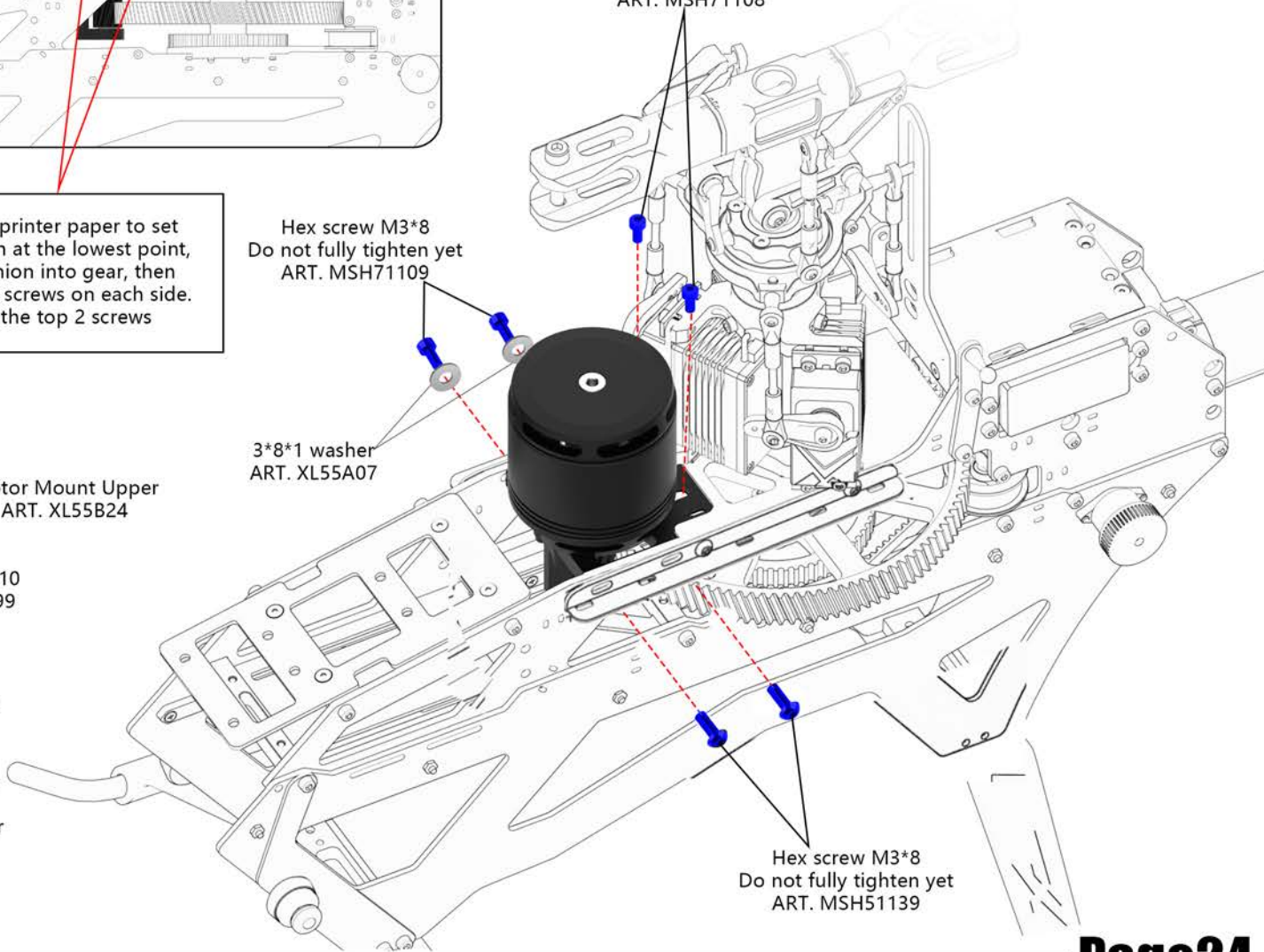
Hex Screw M2.5*10
ART. MSH71103

Hex screw M3*8
Do not fully tighten yet
ART. MSH71109

3*8*1 washer
ART. XL55A07

Hex screw M3x6
Do not fully tighten yet
ART. MSH71108

Hex screw M3*8
Do not fully tighten yet
ART. MSH51139





Make sure the connectors are fully mated and tray latch is locked before flying

Flat screw M2.5*6
ART.XL70V2B16

AS150 Small red housing
ART. XL70V2A08

AS150 Female bullet
ART. XL70V2A07

AS150 Male bullet
ART. XL70V2A10

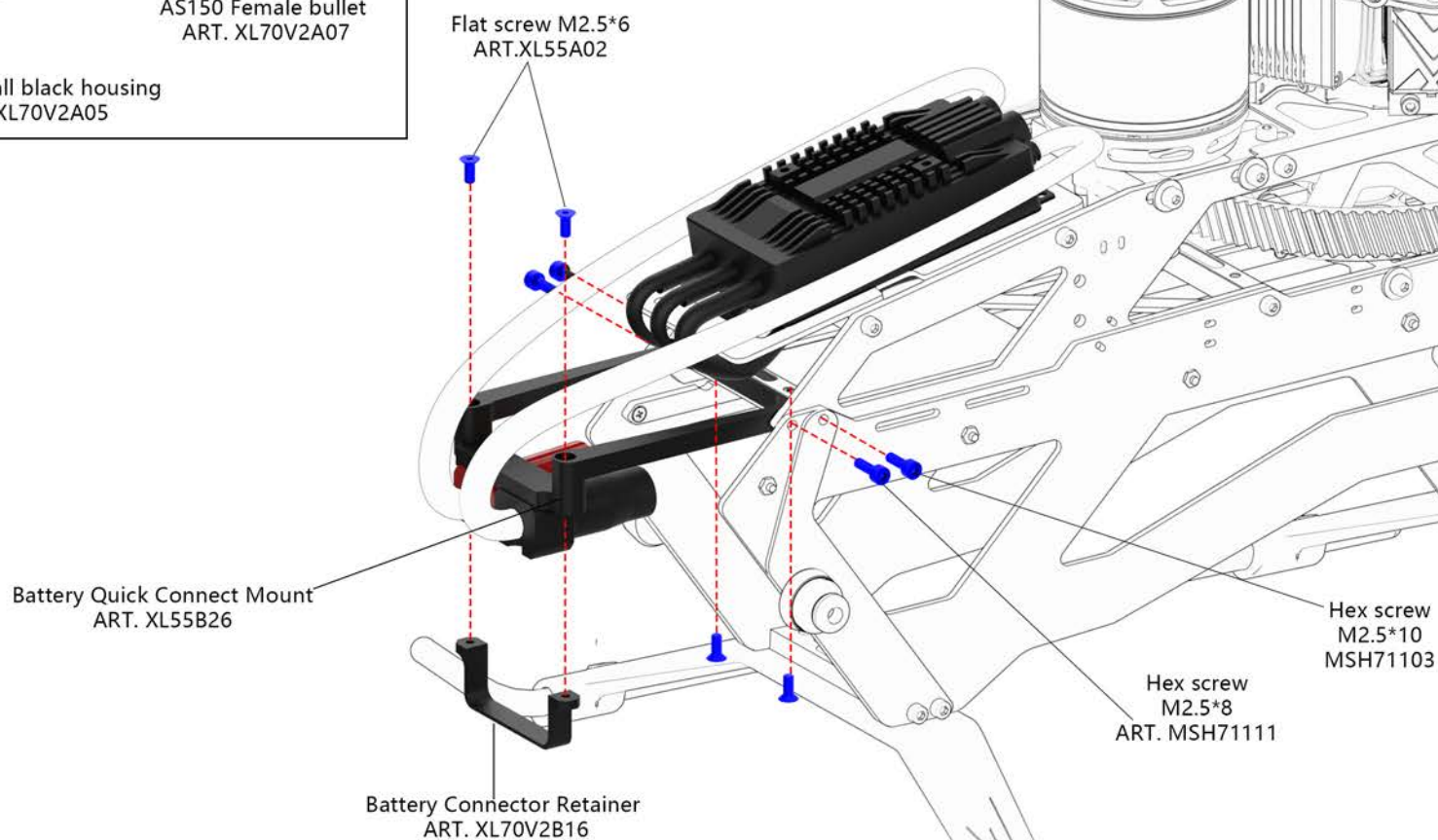
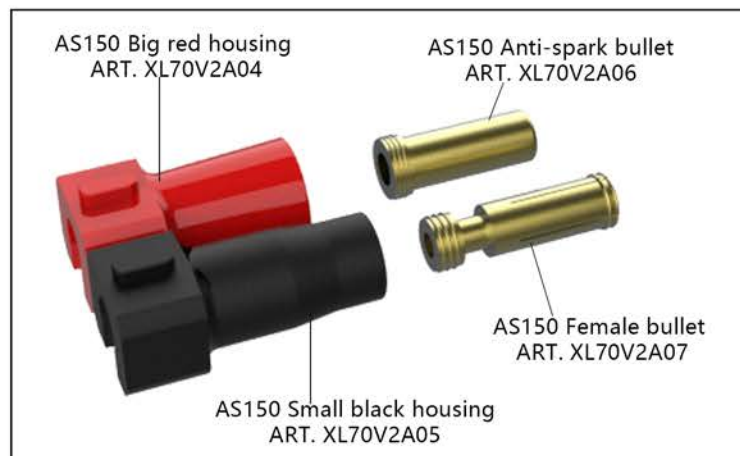
Big Black Housing
ART.XL70V2A09

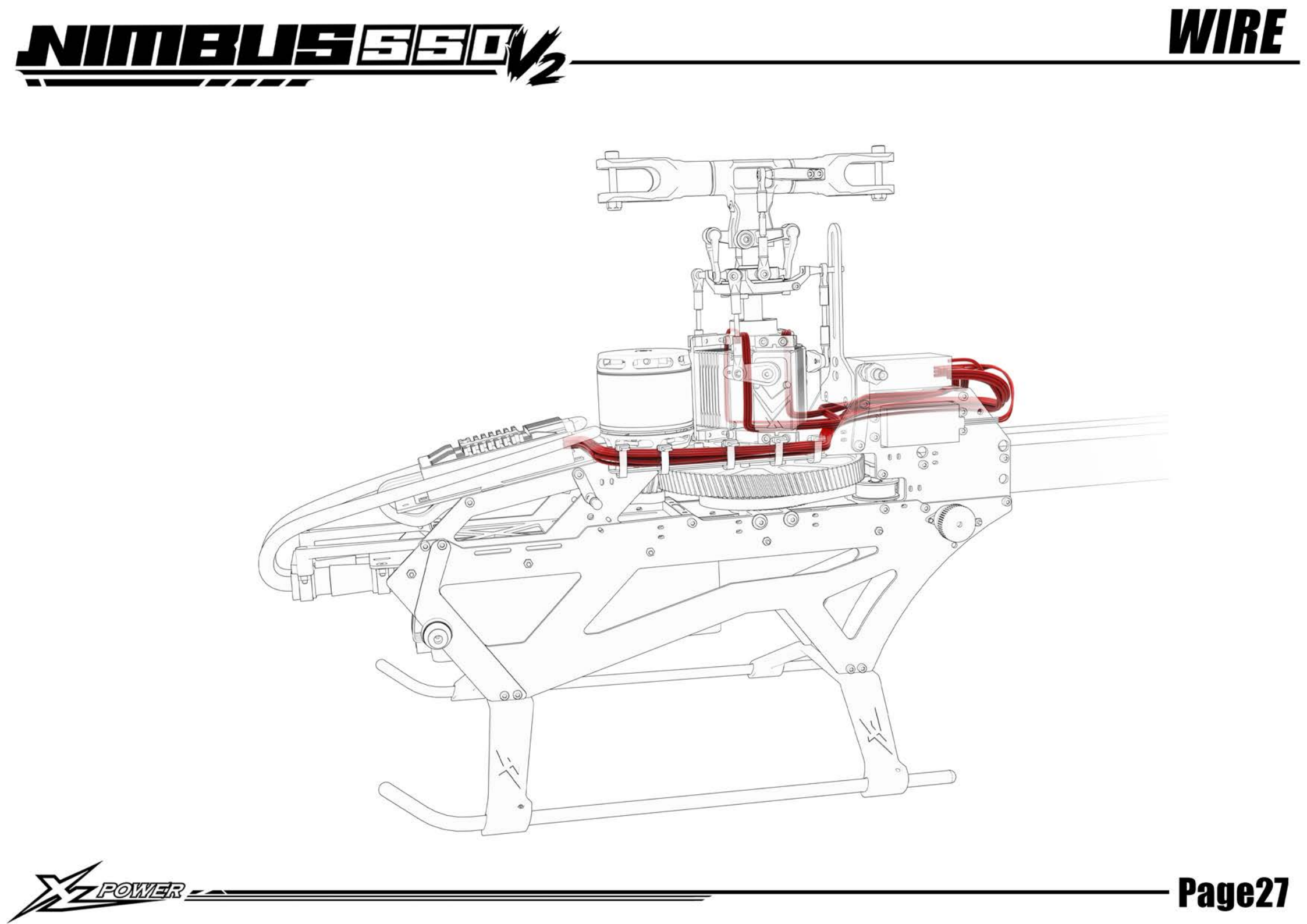
Battery Connector Retainer
ART. XL70V2B16

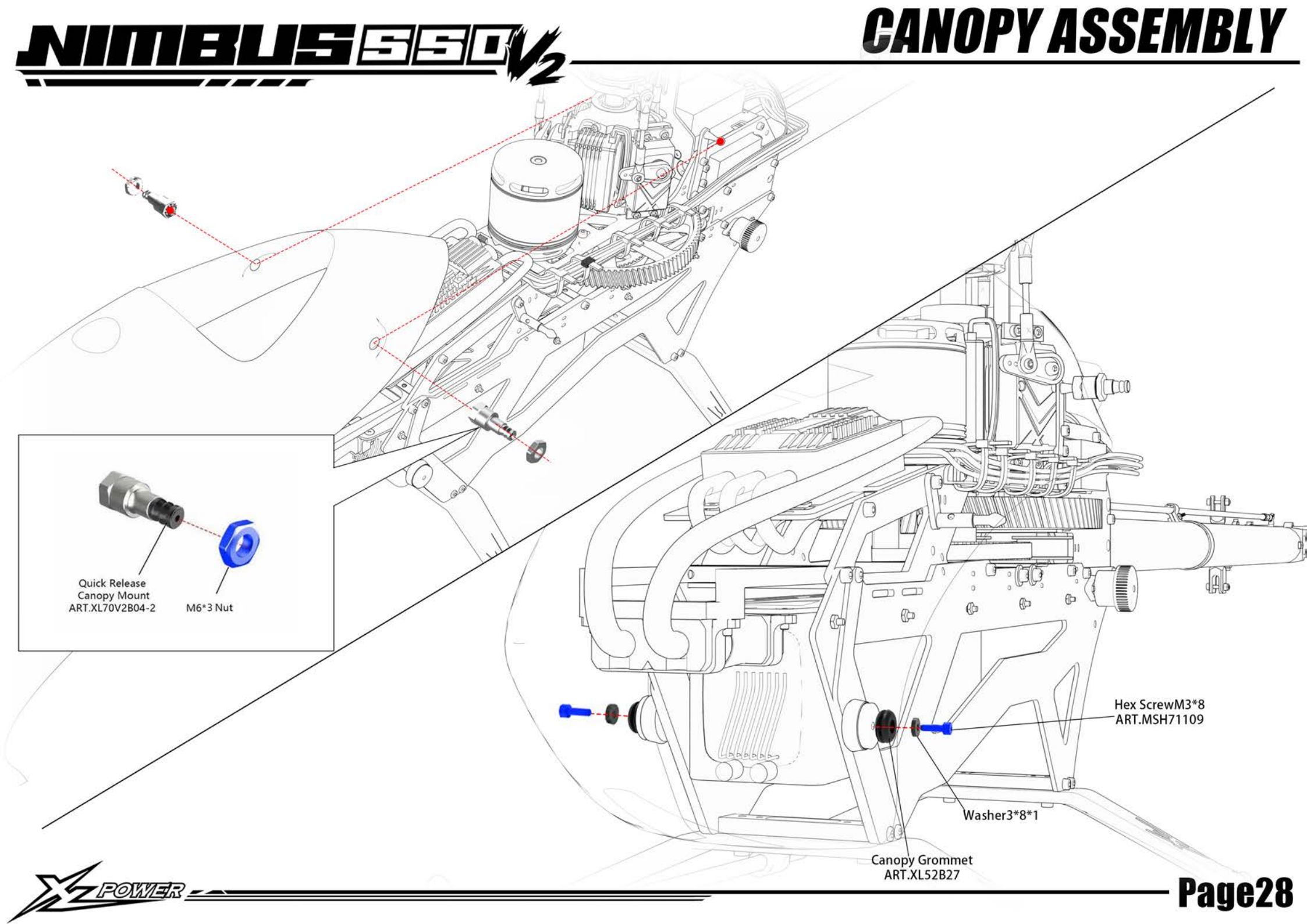
Battery Tray
ART. XL55B27

Flat screw M2.5*6
ART.XL55A02

Battery Tray Puller
ART. XL70V2B14







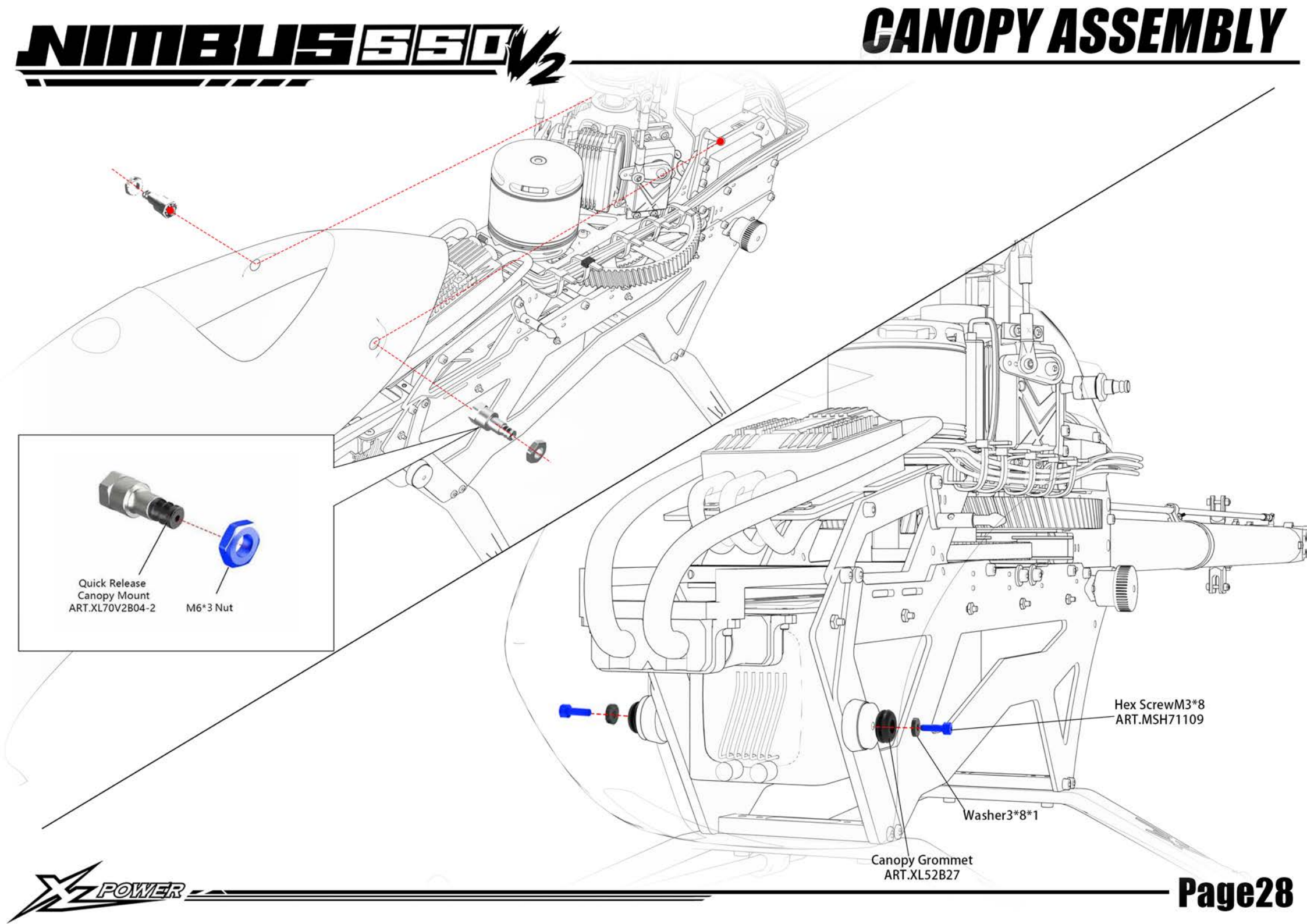
Quick Release
Canopy Mount
ART.XL70V2B04-2

M6*3 Nut

Hex Screw M3*8
ART.MSH71109

Washer 3*8*1

Canopy Grommet
ART.XL52B27



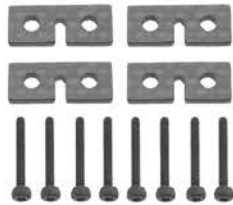
Quick Release
Canopy Mount
ART.XL70V2B04-2

M6*3 Nut

Hex Screw M3*8
ART.MSH71109

Washer 3*8*1

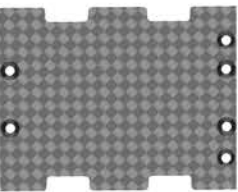
Canopy Grommet
ART.XL52B27

MSH41122  10* Hex screw M2*6	MSH41123  10* Hex screw M2.5*5	MSH41133  5* Grub screw M3*3	MSH41141  10* M2x4 Socket head cap screw	MSH51139  5* M3x8 Socket head button screw
MSH51148  10* M2.5x5 Socket head cap screw	MSH51150  5* Socket Head Cap Screw M3*20	MSH71032  M2.5X10*8 Carbon servo washer *4	MSH71095  10* Nut M2	
MSH71096  5* M3 Nylon nut	MSH71099  5* flathead screw M3*10	MSH71100  5* M3x5 countersunk head screws	MSH71103  10* Hex Screw M2.5*10	
MSH71108  5* Hex screw M3*6	MSH71109  5* Hex screw M3*8	MSH71110  10* Hex screw M2.5*6	MSH71111  10* Hex screw M2.5*8	
MSH71114  5* Hex screw M3*10	MSH71115  5* M3x30 Socket head cap screw	MSH71121  5* Grub Screw M3*3	MSH71249  5* M3*5 Button head screw	

XL48A02  5" Washer 6"8"0.1	XL52A01  4.72"9.5mm ball * 5 4.72"24.2mm ball * 1 4.72"14.2mm ball * 3 4.72"7.4mm ball * 2 4.72"8.3mm ball * 1	XL52A02  10" Ball link	XL52A10  2" Bearing8"14"4
XL52A11  4" Bearing4"8"3	XL52A12  4" MR683ZZ Bearing 3"7"3	XL52A13  4" MR63ZZ Bearing 3"6"2.5	XL52A14  2" MF117 Bearing
XL52A19  4" Servo horn	XL52A20  Ball 4.75mm M2.5*9 (2PCS) Ball 4.75mm M2.5*10.5(2PCS) Ball 4.75mm M2.5*20 (1PCS)	XL52B08    1" Anti Rotation bracket mount 2" Hex screw M2.5*8 4" Flat Head Screw M2.5*6	XL52B11    1"belt guide 2" Bearing Spacer 1"PIN 2"MR683ZZ Bearing
XL52B24-1  1" Slant Thread Main Drive Gear/106T	XL52B24-3  1" 106T Heavy Duty CNC Main Gear V2	XL52B27  4" canopy grommet	XL52G11    1" 11T HD Motor pinion 1" Motor Shaft Adaptor 5"6"16 1" M3*3 grub screw
XL52G12-1    1" 12T HD Motor pinion 1" Motor Shaft Adaptor 5"6"16 1" M3*3 grub screw	XL52G13-1    1" 13T HD Motor pinion 1" Motor Shaft Adaptor 5"6"16 1" M3*3 grub screw	XL52H01   1" Main Rotor Hub 6" Oring 7"3	XL52H03  1"Control Arm 2"MR63ZZ Bearing 2"Washer 1"Radius Arm 2"MR73ZZ Bearing 1"M3*20 Screw

XL52H04-2 1'6706 zz bear ing 1'M2.5'10 Screw 4'M2.5'10Flat head screw 3'M2.5'4 Screw 2'Ball 4.75mm M2.5'9.5 2'Ball 4.75mm M2.5'10.5 6'Ball 4.75mm M2.5'7 1'Ball 4.75mm M2.5'20 2'Ball 4.75mm M2.5'21.5 1:1 Swashplate upper '1 1:1 Swashplate inner '1 Swashplate outter '1 Spherical plain bearings GE10C '1		XL55H03 1' Main shaft 	XL52H06 Feathering Shaft '1 M5x10 Screw '2 5'12'2 Washer '2 
XL52H09-1  V2 Main Shaft Collar '1 M2.5'8 Socket Heard Cap Screw '1	XL52H10  F4-8M Thrust Bearing'2 4X6X0.5 Washer '2	XL52H11  Radius Arm '2	XL52H12  Left and right thread turnbuckle Linkage Rod '2 M2.6 Ball Link'6
XL52H13  M2Linkage rod Set'3 M2Ball Link'6	XL52H14-1  POM damper'2 Oring'2 Spindle washer '2	XL52T07  m2.5'5 Screw ' 2 m2.5'6 Screw ' 1 Tail Rotor Control Arm Support ' 1	XL52T08  Bearing ' 2 m2.5'6 Screw ' 2 m2'5 Screw ' 2 Tail Rotor Control Lever ' 1
XL52T09-4  1' Tail Shaft Slide Bushing 5'7'13mm	XL52T09-2  2' Tail pitch lever screw M2.5'5	XL52T09-3  Tail pitch slider V2'1 M2.5X4.72X7.5 Ball '2 M2X8 Screw '2	XL52T10  Control Arm ' 1 M2.5'4.72'10mm Ball ' 1
XL52T11  Tail Control Link '2	XL52T12-2  Tail center hub '1 7'1.9 Oring'4 4'6'0.5 washer ' 2	XL52T12-3  Center-fixed Pivot ' 1 3X6X2.5 Flange Bearings '2 2X4X0.5 Washer ' 2 M2X4 ' 2	XL52T13  tail rotor holder ' 1 mr84zz Bearing ' 2 4.72'9.5mm Ball ' 1 m3'14 Screw ' 1 m3 Nut ' 1

XL52T14  tail feathering shaft * 1, m3*8 Screw * 2 3*6*0.5 Washer * 2	XL52T15-2  Tapered End Tail Shaft * 1 M3 * 8 Countersunk screw * 1	XL52T16  13t tail pulley * 1 m3*3 Set Screw * 1	XL52T19  Thrust Bearing * 2 4*6*0.5 Washer * 2
XL52T23  Tail Control rod*1 Linkage rod*2 ball link*2	XL52T24  Belt * 1	XL52T28-3  7*1.9 Oring * 4 4*6*0.5 Washert * 2	XL55A01  5* Flat head Screw M2*8
XL55A02  5* Flat head screw M2.5*6	XL55A03  Servo Horn * 3 M2.5*4.72*7.5 Ball * 3	XL55A04  1* Flange Bearings 5*13*4 1* Ball bearing 5*13*4	XL55A05  Front Belt Idler Pin 3*16 * 2
XL55A07  5* 3*8*1 washer	XL55A07  1* Battery Tray Rail	XL55B02-1  1* Nimbus 550 V2 Carbon Fiber Lower Frame	XL55B03  1* Quick Release Battery System 2* Flat head screw M2.5*6
XL55B04  1* Carbon Fiber Plate	XL55B05t  Front Belt Idler Mount * 2 M2.5 X 6 Cap Screw * 2 M2.5 X 8 Cap Screw * 2	XL55B06  1* Frame Spacer 2* Hex Screw M2.5*8 2* Flat Head Screw M2.5*6	XL55B07  550 Tail boom clamp * 1 M3 X 10 Cap Screw * 1 M2.5 X 8 Cap Screw * 2 M2.5 X 6 Cap Screw * 2 M2.5 X 5 Cap Screw * 2

XL55B08-1  1' Nimbus 550 V2 Carbon Fiber Upper Frame	XL55B09  550 Landing Gear Mount *1 M3 X 8 Cap screw *2 M2.5 X 6 Cap screw *2 M2.5 X 8 Cap screw *2	XL55B10  550 landing gear strut (White) *2 M3X3 Grub screw *4	XL55B10-1  550 landing gear strut (Black) *2 M3X3 Grub screw *4
XL55B11  Upper STD Servo mount *1 M2.5X10 Cap Screw *6	XL55B11-1  Upper MINI Servo mount *1 M2.5X10 Cap Screw *6	XL55B11-1  Upper MINI Servo mount *1 M2.5X10 Cap Screw *6	XL55B12  Lower STD Servo Mount *1 M2.5X10 Cap Screw *6 M3X10 Cap Screw *3
XL55B12-1  Lower MINI Servo Mount *1 M2.5X10 Cap Screw *6 M3X10 Cap Screw *3	XL55B13  Main Shaft Block (STD) *1 M2.5X8 Cap Screw *6	XL55B13-1  Main Shaft Block (Mini) *1 M2.5X8 Cap Screw *6	XL55B14  1' Center plate 6' Hex Screw M3*6 2' Hex Screw M3*8
XL55B16-1  1' Rear gyro plate	XL55B20  1' ESC Plate	XL55B21  1' Main Gear Hub 1' Ball Bearing 15*21*4 4' Hex Screw M3*6 2' HF1012 One Way Bearing	XL55B22  1' 60T Front Pulley
XL55B23  1' Third Bearing Block 4' HexScrew M3*12 4' Washer 3*8*1 1' Double Row Angular Contact Bearing 10*19*7	XL55B24  1' Motor Mount Upper 4' HexScrew M3*8 4' Washer 3*8*1	XL55B25  Lower Mount Mount *1 6X8X0.3 Shim *1 6X13X5 Bearing *1 M2.5X10 Cap Screw *2	XL55B28  1' Wire cover 4' M3x8 Socket head button screw

XL55B26-1 AS150 Male Bullet connector*2 XLS70BV2B16 Battery connector Retainer*2 AS150 Small Black Housing*1 AS150 Big black housing*1 XLN550 Quick Connect Mount *1 M2.5*8 Hex Screw *4 AS150 Small Red Housing*1 AS150 Big Red Housing*1 M2.5*6 Flat Screw *6 AS150 Female Bullet connector*2 		XL55B27  550 Battery Tray *1 Sticky Back hook and loop tape 1X20cm (2PCS) hook and loop strap 40X100mm (2PCS)	
XL55B29  2x Nimbus 550 V2 Front canopy mount	XL55H01  1x Main Blade Grip 2x Bearing 8*14*4 2x M2.5*8 hex screw	XL55H02  2x Main Blade Grip Arm 2x Ball 4.72mm M2.5*3	XL55NB03  2x Tail Servo Mount 4x Hex Screw M2.5*6 4x Hex Screw M2.5*10
XL55NB07  2x Canopy Support 2x M3 Nut 2x Ball for Nimbus Quick Canopy Release	XL55NB24  2x Landing gear pipe	XL55NB24-1  2x White landing gear pipe	XL55T01  1x 550 Tail Boom
XL55T02  1x Tail Case 1x Ball Bearing 5*13*4 1x Flange Bearings 5*13*4 4x Button Head Screw M3*5 2x Hex Screw M2.5*5 1x Hex Screw M3*30	XL55T03  V1 Vertical Tail Fin *1	XL55T03-1  V2 Vertical Tail Fin *1	XL55T04  1x Rear Belt Idler Pulley 2x Baring 3*7*3 2x Spacer 3*5*8 1x Spacer 3*5*0.5
XL55T08  2x Tail Pushrod End 2x Tail Pushrod End Linkage Screw 2x Ball Link 4.75mm M2.5	XL70A06-1  2x Ball bearing 6*13*5	XL70A19  5x Washer 3*5*0.5	XL70B21-3  6702zz Bearing *2

NIMBUS



W W W . X L P O W E R - R C . C O M