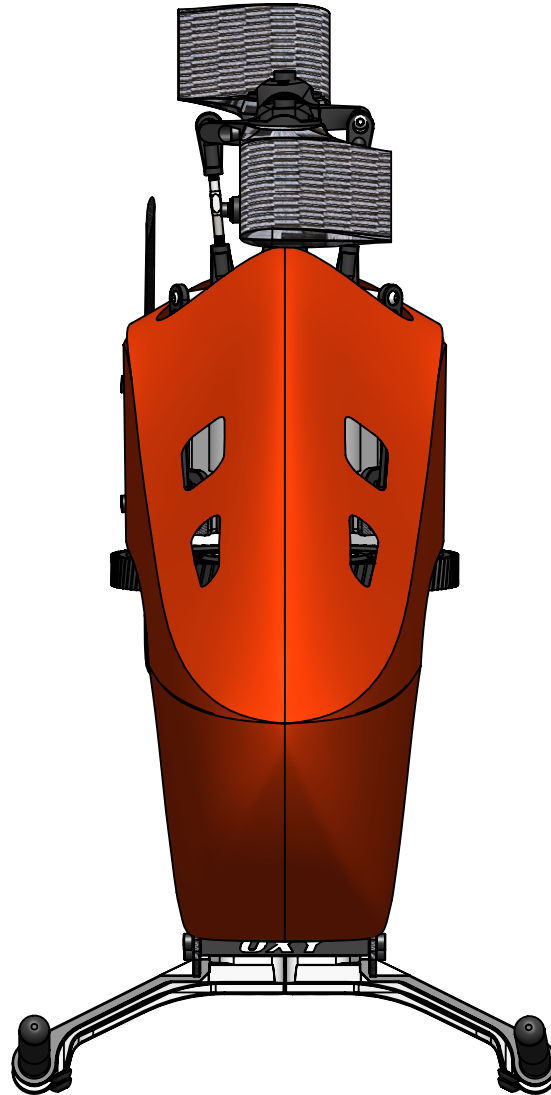


OXY5

OXY5 MEG

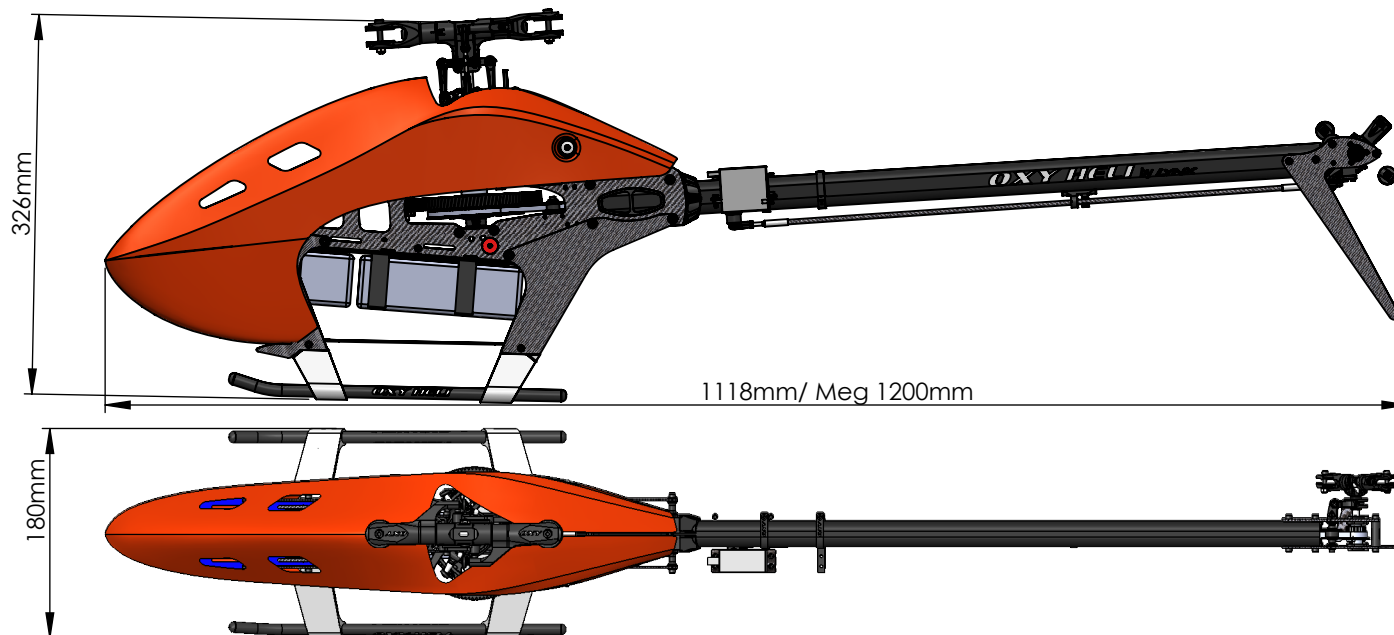
Nothing Else Matters
Instruction Manual

Revision: Beta 15 Date: May-13-2020



VERY IMPORTANT NOTE:

- Oxy Team continue work on manual update to give the most and recent assembly and set up, visit the Oxy Heli web site lynxheli.com (Products/Oxy Heli/ Kits/ select your kit) to download the latest version of the manual.
- Inside Box 3 you will find your serial number card and serial number tag. Please take a moment to visit the lynxheli.com web site ((Products/Oxy Heli/ Kits/ select your kit) and follow the instructions to register your helicopter and serial number.
- It is important you take few minutes to register your helicopter and serial number with us. This is the only way to be in contact with us to receive news, promotional information and technical tips.
- We will also choose five serial numbers each year that will win a discount coupon worth 200USD each to spend at the Oxy Heli or Lynx Heli web sites.
- Thank you for your purchase, and we wish you the best enjoyment with your new Oxy 5 Helicopter.



- | | |
|-----------------------------|--|
| - Main Blade Length: | - 500 to 575mm/ Meg up to 625mm |
| - Main Grip Clamping: | - M4 / 10 and 12mm Root. |
| - Tail Blade Length: | - 85mm to 105mm. |
| - Standard Main Gear: | - 110T |
| - Standard Pinion: | - 12T (Optional 11-13-14) |
| - Standard Main Ratio: | - 9.166 |
| - Standard Main Pulley: | - 84T |
| - Standard Tail Pulley: | - 19T (Optional 18-20) |
| - Standard Tail Ratio: | - 4.42 |
| - Tail Blade Clamping: | - M3 / 5 mm Root. |
| - RTF Approximately Weight: | - 2900g (including batteries 6S). |
| - Motor size: | - 4015-4020-4025-4030-4225 Shaft 6mm – L20/25. |
| - 6S Max Battery Size: | - L150 x H55 x W50mm. |
| - 12S Max Battery Size: | - L270 x H43 x W50mm |

| | |
|--|----------------|
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Lynx Heli Innovations Oxy Heli Intellectual Property

Lynx Heli Innovations has declared all documentation within it's manuals, websites, drawings and production plans are the intellectual property of Luca Invernizzi. This declaration also includes all images, videos, graphic designs, brand logos, part designs, helicopter accessories, helicopter parts, helicopter kits produced and retailed under the brands Lynx Heli Innovations, OXY Helicopter, OXY HELI. No other company or individual is allowed to use this intellectual property to take, use, claim ownership or rights, republish, reprint, recreate or reproduce in any way.

IMPORTANT NOTE:

This model helicopter has been designed and produced to be a high performance 3D machine. With its simple design and low parts count, pilots of all skill levels will appreciate its easy repairability. This is not a toy. Please take care assembling the model, and take care and responsibility when you fly it. We take no responsibility for any damage or injuries, either direct or consequential, from the use of this product. If you are not experienced in the assembly and flying of a high performance model helicopter we recommend you seek the assistance of an experienced pilot. Above all, fly safely and we hope you enjoy this model.

SAFETY GUIDELINES:

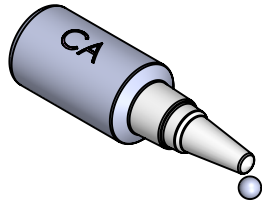
Only fly this model in areas designated for the use of model aircraft. Ensure you obtain indemnity insurance, normally available through your National model aircraft association. Remain at least 6 meters (20 feet) from the model at all times. Never allow spectators or animals any closer than 30 meters (100 feet) from the model.

NOTES FOR ASSEMBLY:

Please read this instruction manual fully before beginning assembly of this model helicopter. Be sure to use quality tools during the assembly process, and remember not to overtighten small fasteners. Note the following symbols which are used in this manual. Use thread lock sparingly where indicated. If you are unsure about an assembly step, please seek the advice of an experienced pilot. Warranty on any parts is only applicable prior to assembly of the part on the model. **NONE OF THE PRE ASSEMBLED PARTS HAVE THREAD LOCK ON THE SCREWS. IS IMPORTANT TO READ AND FOLLOW THE ASSEMBLY NOTES IN EACH STEP. INCORRECT ASSEMBLY OR NOT USING THREAD LOCK WILL CAUSE A CRASH OR INJURY.**



Important note



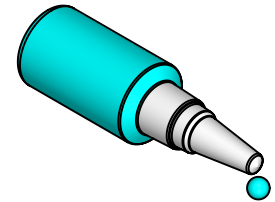
Use CA Glue



Use Loctite 243 Medium Strength



Use Loctite 648 Bonding

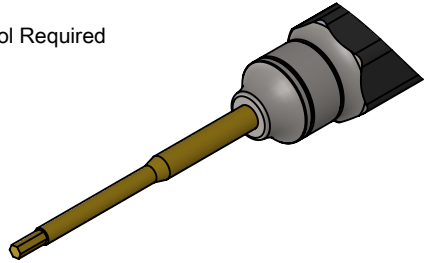


Use Silicone Grease

TOOLS REQUIRED

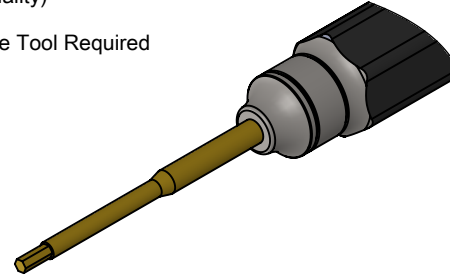
1.5mm Hex Screw Driver
(High quality)

 One Tool Required



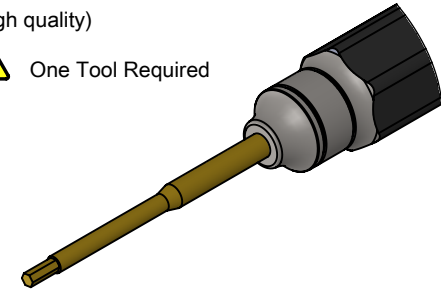
2mm Hex Screw Driver
(High quality)

 One Tool Required

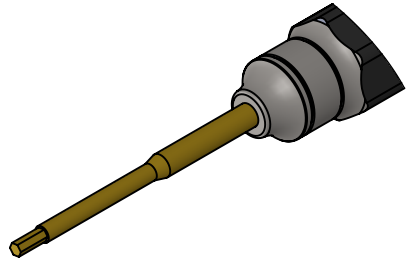


2.5mm Hex Screw Driver
(High quality)


 One Tool Required

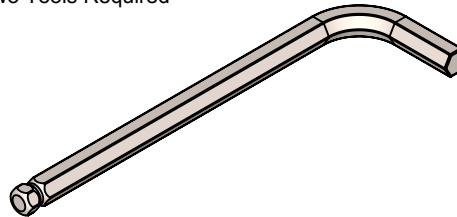


3mm Hex Screw Driver
(High quality)

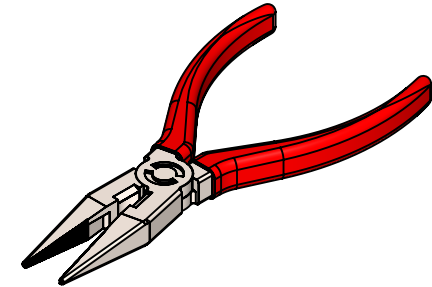


4mm Hex Tip Key L
(High quality)

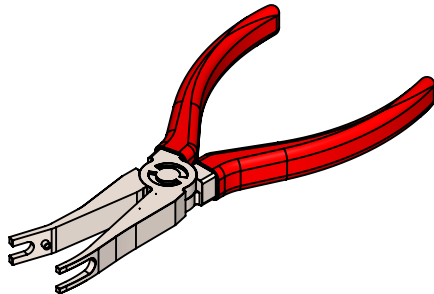
 Two Tools Required



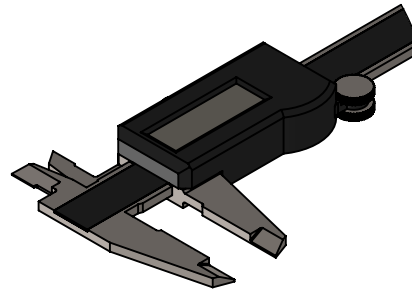
Needle Nose Pliers



Uniball Pliers



Caliper

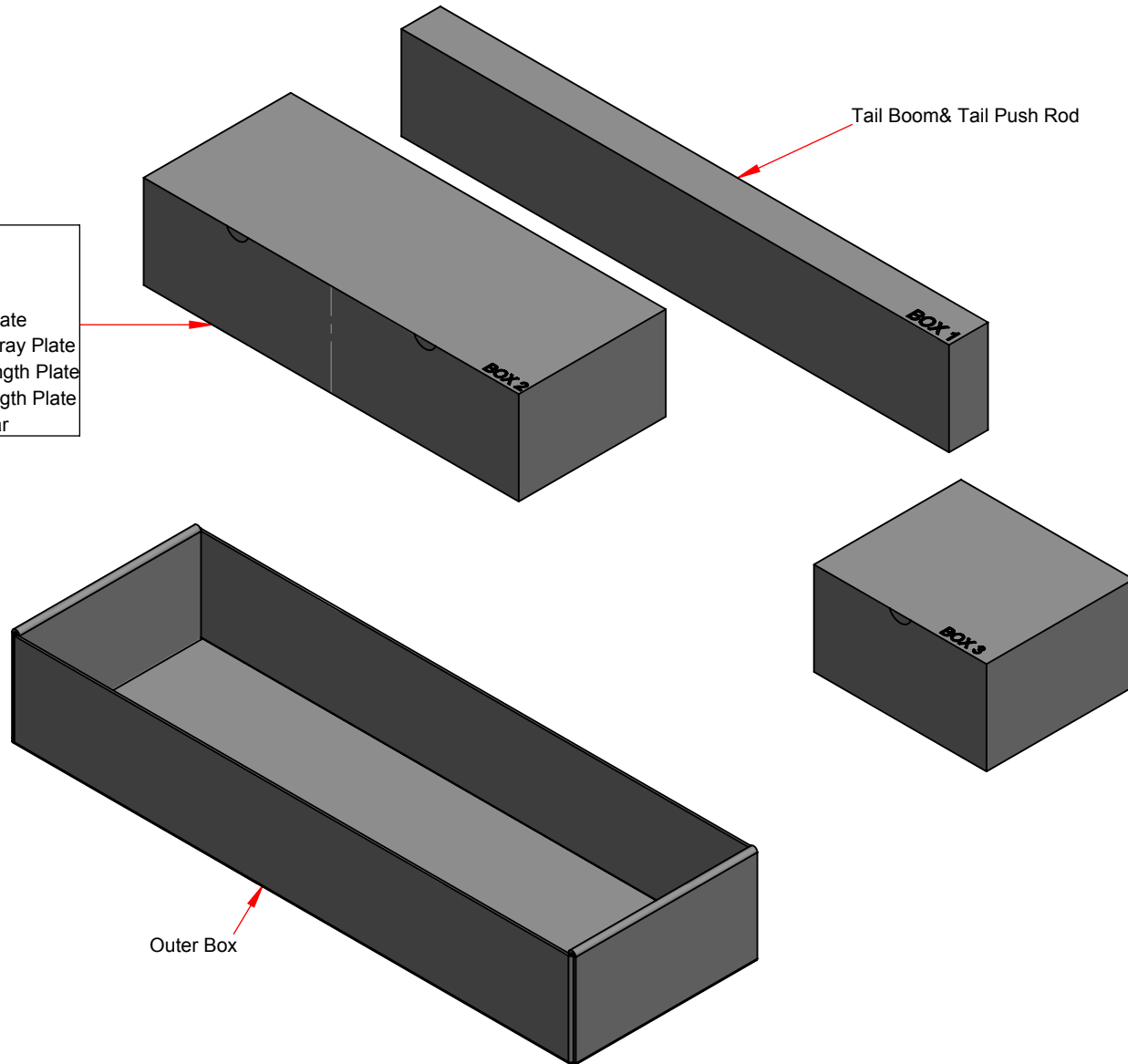


Note :

We recommend high quality steel tools during assembly.
Hex Screw driver in particular must have precise Tip
Hexagonal dimension.

Canopy
 Box2/bag 15 Main Frame
 Box2/bag 17 ESC Plate
 Box2/bag 18 CF Middle Plate
 Box2/bag 19 CF Battery Tray Plate
 Box2/bag 21 CF Front Length Plate
 Box2/bag 22 CF Rear Length Plate
 Box2/Bag 28 Landing Gear

Tail Boom & Tail Push Rod



Box3/bag 1 Vertical Fin
 Box3/bag 2 Tail Rotor
 Box3/bag 3 Tail Shaft
 Box3/bag 4 Tail Pitch Slider
 Box3/bag 5 Tail Bell Crank
 Box3/bag 7 Tail Servo Mount
 Box3/bag 6 HTD3M 1698-Tail Belt
 Box3/bag 8 Front Pulley Guide Belt
 Box3/bag 9 Boom Clamp
 Box3/bag 10 Upper Main Shaft Bearing Block
 Box3/bag 11 Middle Main Shaft Bearing Block
 Box3/bag 12 Lower Main Shaft Bearing Block
 Box3/bag 13 Canopy Mount
 Box3/bag 14 Motor Mount
 Box3/bag 16 Anti Rotation Guide
 Box3/bag 23 Main Gear
 Box3/bag 24 Swash Plate
 Box3/bag 25 Rotor Head
 Box3/bag 26 Main Shaft
 Box3/bag 27 Servo Set
 Accessories

OXY 5 - FLIGHT STYLE / HEAD / TAIL SETTINGS

In order to choose the best setup for your OXY 5, and optimize performance, it is important to know some basic information:

- 1- Battery Pack you intent to use - (from 6S to 12S)
- 2- The Motor Kv - See your motor specifications.
- 3- Your target head speed, If you use a head speed calculator, use 110 Teeth for the main gear and one of the available pinions.

Or use this simple formula:

$$\text{Theoric Max RPM} = \frac{((N \text{ Cell} \times 4.00) \times \text{KV Motor})}{(\text{Main Gear T} / \text{Pinion T})}$$

If you use governor, in order to assure that RPM will be constant during the flight, set a gear ratio to have theory Maximum RPM approximately 10% higher than you're expected governed RPM.

Your TX Throttle value should be set between 75 to 85%

Example: Target RPM Governed at 80% throttle value = 2000, theory Max RPM should be approx. 2200.

This formula and value can be affected by many factors such: Battery quality, Battery C Rate, Motor Power and Flight Style.

In any case can give you basic information choosing your Motor KV and Pinion (Gear Ratio).

Table below will give you basic suggestion about RPM and Tail Setting (tail pulley / tail ratio) in order to guide on your OXY 5 Flight Style needs.

| Main Blade | Motor | Battery | Flight Style | Head Speed | | Max Pitch | Tail Pulley | Tail Blade | Dampeners |
|------------|-------------------------------|---------------------|--------------|------------|------|-----------|-------------|------------|-----------|
| 500 / 525 | 40/15-20 | 6s 3500 | Novis | 1900 | 2300 | + / - 10 | 18 | 85 | HSS |
| | | | Soft 3D | 2300 | 2600 | + / - 12 | 19 | 85 | HSS |
| | | | Hard 3d | 2600 | 2900 | + / - 14 | 19 | 85 | HHS |
| 550 / 560 | 40/20-25 | 6s 5000 12s 3000 | Novis | 1800 | 2000 | + / - 10 | 18 | 95 | HSH |
| | | | Soft 3D | 2000 | 2400 | + / - 12 | 19 | 95 | HSH |
| | | | Hard 3d | 2400 | 2600 | + / - 14 | 19 | 95 | HHH |
| 570 | 40/20 to 30 42/25 | 6s 5000 12s 4000 | Novis | 1700 | 2000 | + / - 10 | 18 | 95 | HSH |
| | | | Soft 3D | 2000 | 2300 | + / - 12 | 19 | 95 | HSH |
| | | | Hard 3d | 2300 | 2500 | + / - 14 | 19 | 95 | HHH |
| 600 / 625 | 40/20 to 35 42/25 45/25 | 6s 5000 12s 4000 | Novis | 1600 | 1900 | + / - 10 | 18 | 105 | HSH |
| | | | Soft 3D | 1900 | 2200 | + / - 12 | 19 | 105 | HHH |
| | | | Hard 3d | 2200 | 2500 | + / - 14 | 19 | 105 | RIGID |

Above information are basic average suggestion.

Dampener Legend (read Ring Hardness from Main Shaft to Main Blade direction).

For Example HSH = Inner O-Ring Hard / Midle O-Ring Soft / Externa O-Ring Hard

OXY 5 - ELECTRONICS AND POWER SUGGESTIONS

Head Speed Note: Although OXY 5 can handle very high Head Speed, we suggest not to exceed the maximum RPM on the table above, to maintain a good compromise between performances and efficiency.

Tail Settings, see above Info and Table: "Flight Style - Head - Tail Settings"

CONFIGURATION EXAMPLES:

Since the OXY 5 is a high performance 3D RC helicopter, we suggest using high quality electronics and power components including Servos, FBL, Motor, Battery and ESC. OXY 5 from box is designed to use Cyclic Standard Size Servo and Rudder Standard or Mini Size Servo, however thanks a simple optional bracket system can use Cyclic Mini Size Servo. From our test we can suggest Cyclic Mini Size Servos for Main Blade from 500 to 560 and Standard Servo Size from 550 to 570, in any case is hard for us give a precise direction, because in the end we don't know your personal flight performance. In any case our basic direction cannot be wrong. Remember that OXY 5 like any other top performance Heli require light components to maximize flight time and performance. Always consider the acceleration G force in flight, few extra gram can become Kg during some maneuvers, compromising the best performance. Always choose the electronics and the power system suitable for your flight style, "more is not always better"!

FROM OUR TEST HERE OUR ELECTRONICS SUGGESTIONS:

FROM OUR TEST HERE OUR ELECTRONICS SUGGESTIONS:

CYCLIC SERVO: (Standard Kit) : Standard HELI Size Servo– With Optional Mini Servo Bracket: Mini HELI Size Servo.

RUDDER SERVO: Standard or Mini HELI Size Servo, narrow pulse and fast throw – (Suggested Specific Rudder Servos)

BATTERY: Hard to list here all the option OXY 5 gives, however if 6S from 3500 up 5500 and if 12S from 2500 up 4000. For more information about maximum battery size, please check User Manual Page 2.

ESC: 100 to 150A

MOTOR: 4015, 4020, 4025, 4035, 4225 - 500 / 1200 KV depending on your Battery Set-Up.

FBL System: The OXY 5 is designed around the Ikon / Brain and Neo V-Bar Systems. Many other FBL systems can be used, depending on your personal choice. Boom Clamp Bottom Side can accept any of the current FBL available.

MAIN BLADE: OXY 5 can spin 500 up to 575mm Main Blade, 4mm Screw 10 or 12mm Root.

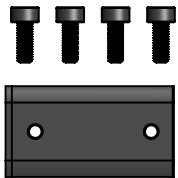
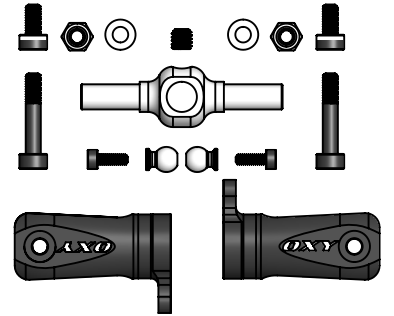
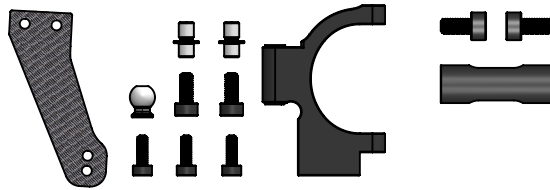
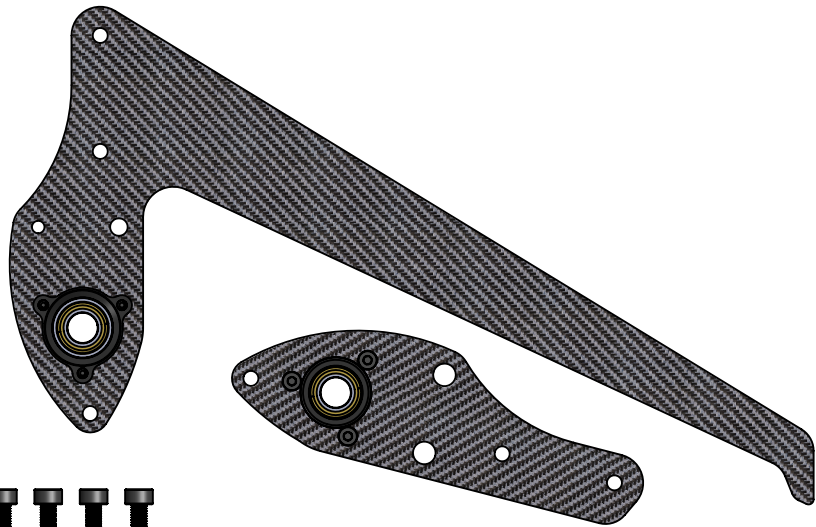
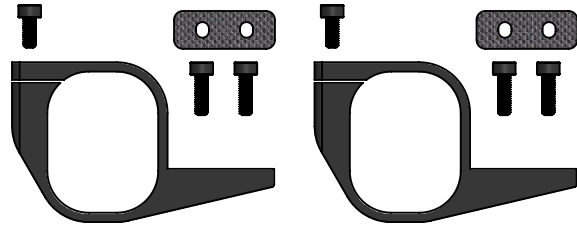
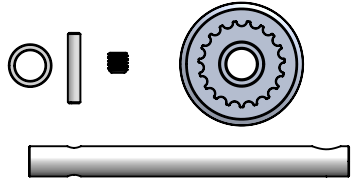
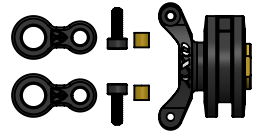
TAIL BLADE: OXY 5 can spin 85 up to 105mm Tail Blade, 3mm Screw 4mm Root.

OUR PILOTS STANDARD SET-UP

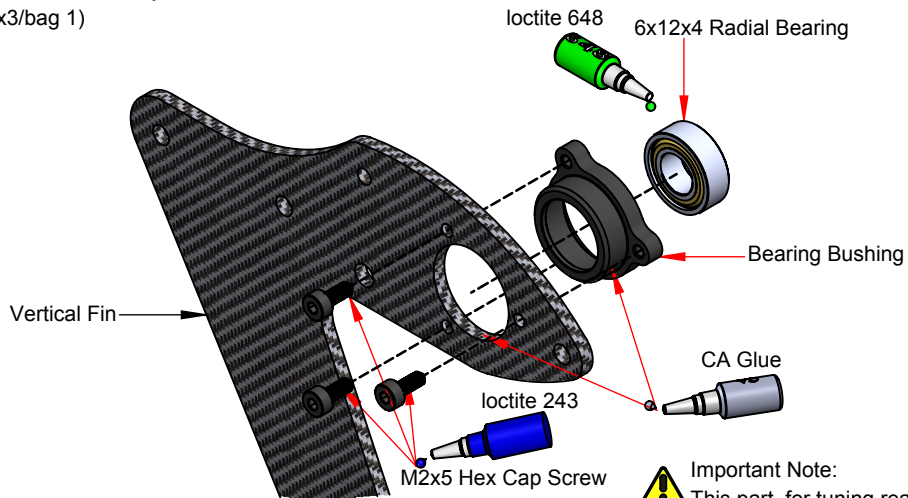
| Name | Level | Battery | ESC | Motor | Tail Pulley | Cyclic Servos | Tail Servo | FBL | Main Blade | Tail Blade | Head Speed | Dampeners Set | |
|-------------------|----------|----------|-------------------------|---------------------|-------------|---------------|-------------------|-----------------|-------------|---------------|--------------|---------------|--------------|
| Aaron Wolf | Pro | 6s 5100 | Scorpion Tribunus 120A | Scorpion 4025-110kv | 13 | 19 | KST X20 V2-2208 | KST X20 V2-1035 | NEO | R-Tech 560 | R-Tech 95 | 2400 | HHH + 1 Shim |
| Alessandro Isella | Advanced | 12s 3500 | Castle Edge 120HV | 700mx - 545kv | 12 | 19 | KST BLS815 | KST BLS805x | SK 540 | SAB 570 | SAB 95 | 2400 | HSH + 1 Shim |
| Henrik Clausen | Pro | 6s 5000 | IONIX 100A | RAGE 4219 | 13 | 19 | MKS HV9767 | MKS HV9780 | NEO | R-Tech 560 | R-Tech 95 | 2400 | HSH + 1 Shim |
| Joe Herison | Sport | 12s 3300 | HW 130A V4 | Quantum 4125-560kv | 12 | 19 | KST DS725MG | KST DS525MG | iKon 2/Inte | R-Tech 560 | R-Tech 96 | 2350 | HSH + 1 Shim |
| Luca Ursini | Advanced | 6s 4400 | YEP 100A | XNOVA 4020 L 1200kv | 12 | 19 | Outrage | Outrage | Brain2/BT | SAB 570 | SAB 95 | 2350 | HSH + 1 Shim |
| Lukas Dinger | Pro | 6s 5200 | Kontronik Kolibri 140LV | Pyro 650-1030kv | 13 | 19 | Deko 6295 | Deko 5125 | DEMON Axon | VTX 557 | SpinBlade 95 | 2350 | HSH + 1 Shim |
| Mark Alswager | Advanced | 6s 5000 | Kontronik Jive P120HV | XNOVA 4020 L 1200kv | 12 | 19 | MKS HBL599/HBL575 | MKS X8 HBL880 | NEO | VTX 557 | R-Tech 93 | 2500 | HHH + 1 Shim |
| Matthew Cramer | Advanced | 6s 5000 | Kontronik Jive P120HV | XNOVA 4020 L 1200kv | 12 | 19 | MKS HBL599/HBL575 | MKS X8 HBL880 | NEO | VTX 557 | R-Tech 93 | 2500 | HHH + 1 Shim |
| Rasmus Jakobsen | Pro | 12s 2800 | Scorpion Tribunus 130A | Scorpion 4025-550kv | 13 | 19 | KST X20 V2-2208 | KST X20 V2-1035 | NEO | SpinBlade 570 | SpinBlade 95 | 2650 | HsH + 1 Shim |
| Rich Knapp | Sport | 6s 5000 | HW 130A V4 | XNOVA 4020 -1000kv | 12 | 19 | KST DS589MG | BK DS-5005HV | Brain2/BT | VTX 557 | R-Tech 96 | 2000 | HSH + 1 Shim |

Above information are personal preference of our Test Pilot, brands and electronics set up are just for information purpose.

Tail Set Assembly

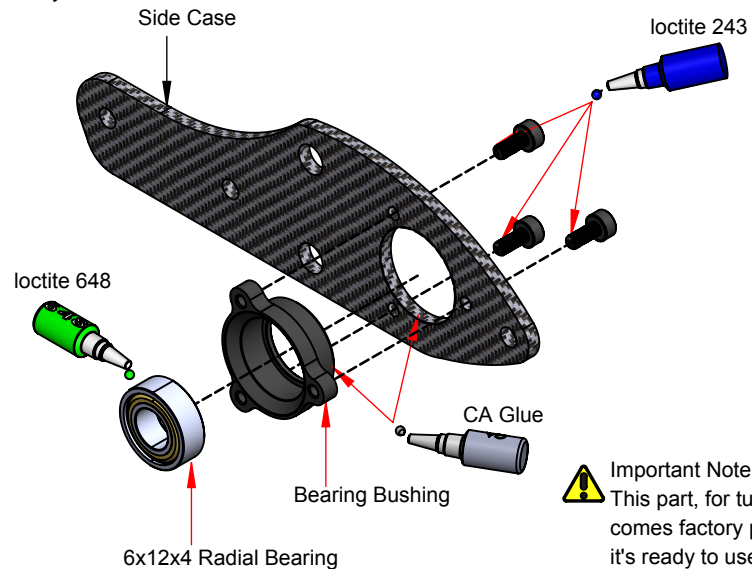


Vertical Fin Assembly
(Box3/bag 1)



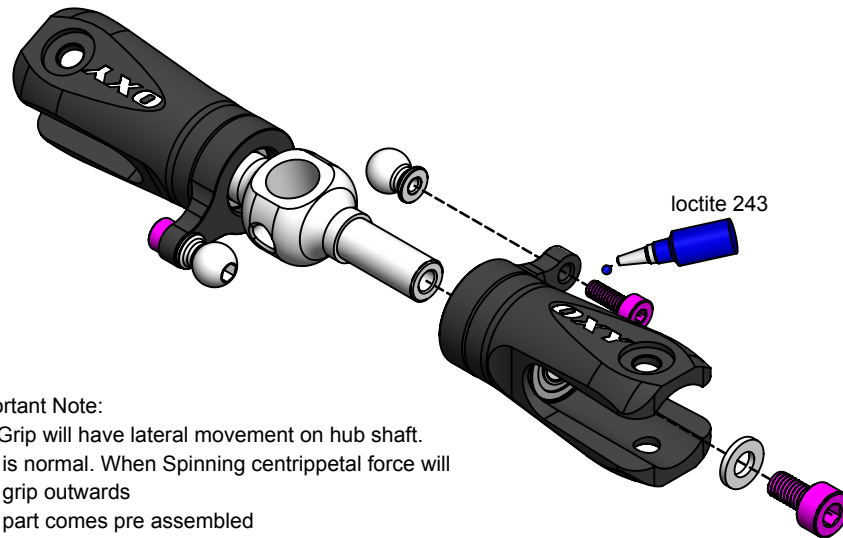
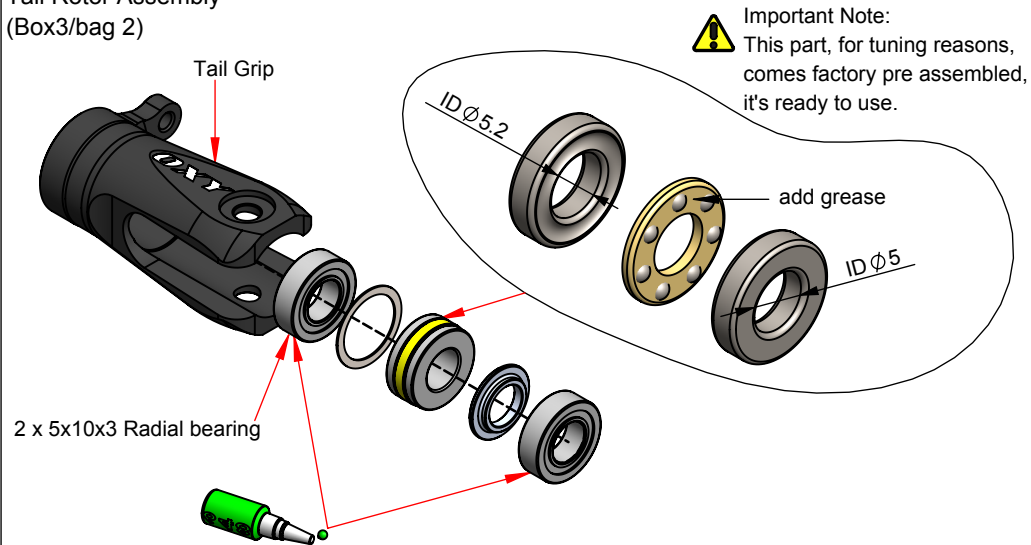
⚠ Important Note:
This part, for tuning reasons, comes factory pre assembled, it's ready to use.

Side Case Assembly
(Box3/bag 1)



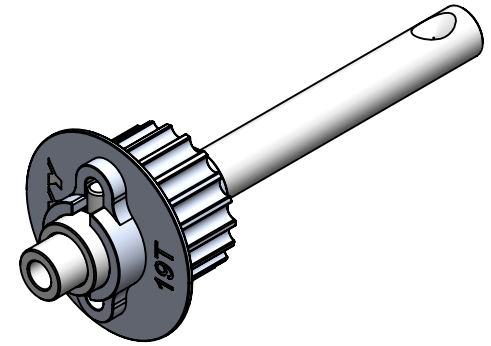
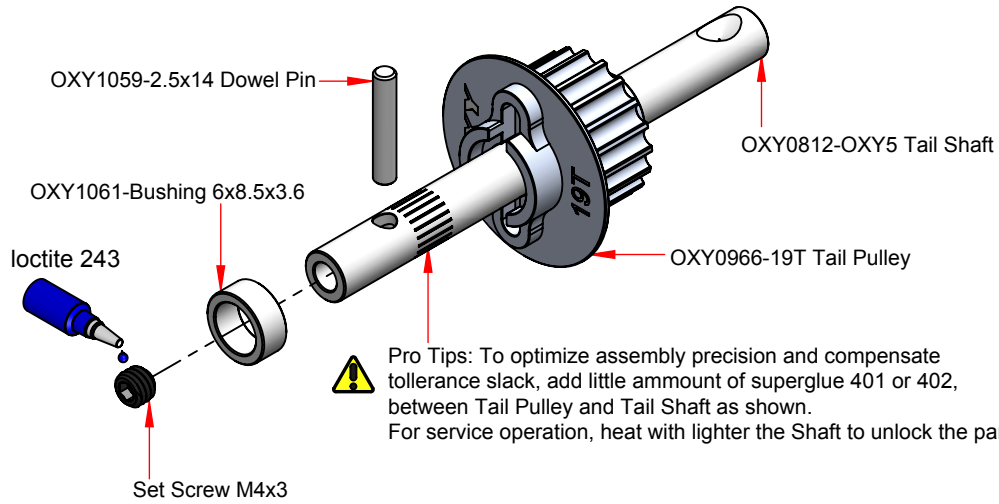
⚠ Important Note:
This part, for tuning reasons, comes factory pre assembled, it's ready to use.

Tail Rotor Assembly
(Box3/bag 2)

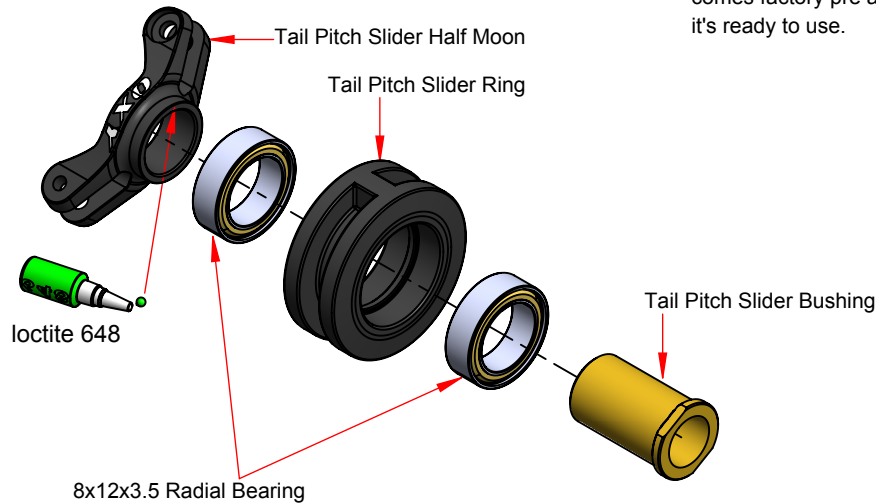


⚠ Important Note:
Tail Grip will have lateral movement on hub shaft. This is normal. When Spinning centripetal force will hold grip outwards
This part comes pre assembled WITHOUT thread lock. It MUST be re-assembled with thread lock as shown.

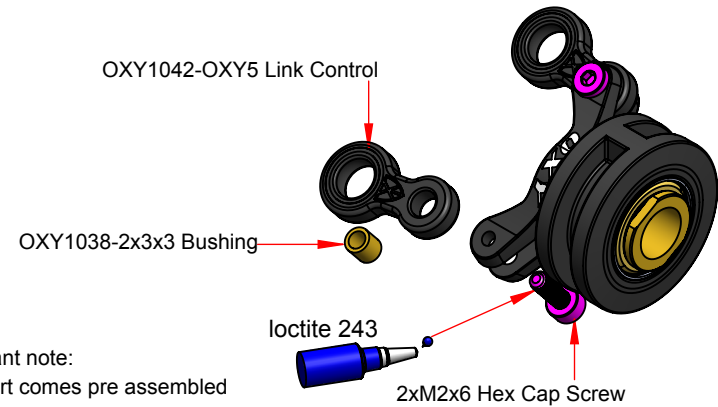
Tail Shaft Assembly
(Box3/bag 3)



Tail Pitch Slider Assembly
(Box3/bag 4)

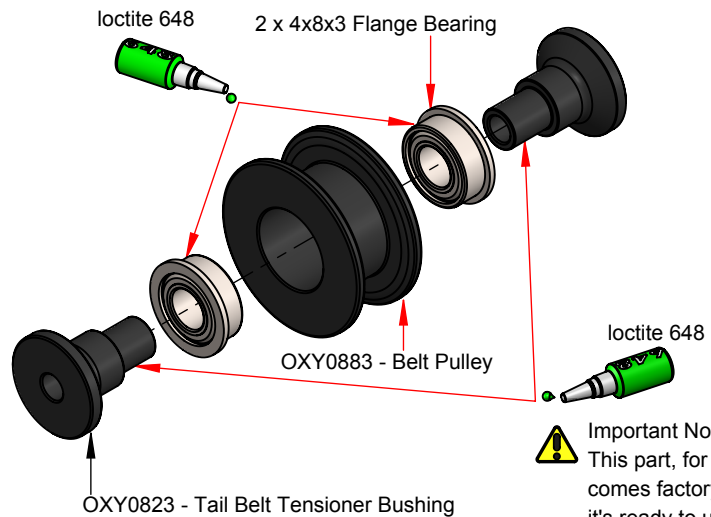


Important Note:
This part, for tuning reasons, comes factory pre assembled, it's ready to use.



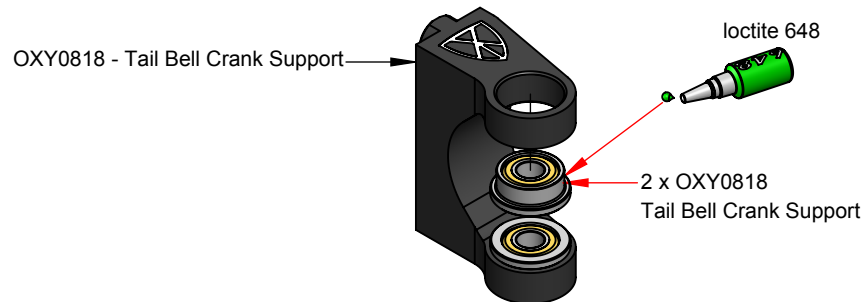
Important note:
This part comes pre assembled WITHOUT thread lock. It MUST be re-assembled with thread lock as shown.

*Tail Belt Crank Support Assembly
(Box3/bag 5)*



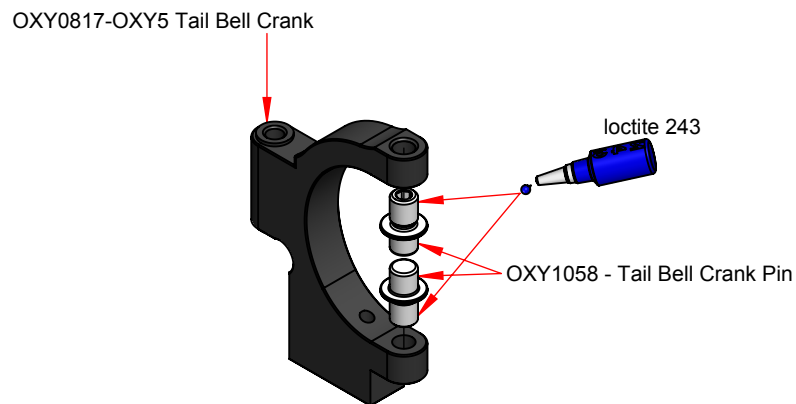
⚠ Important Note:
This part, for tuning reasons, comes factory pre assembled, it's ready to use.

*Tail Belt Crank Support Assembly
(Box3/bag 5)*



⚠ Important Note:
This part, for tuning reasons, comes factory pre assembled, it's ready to use.

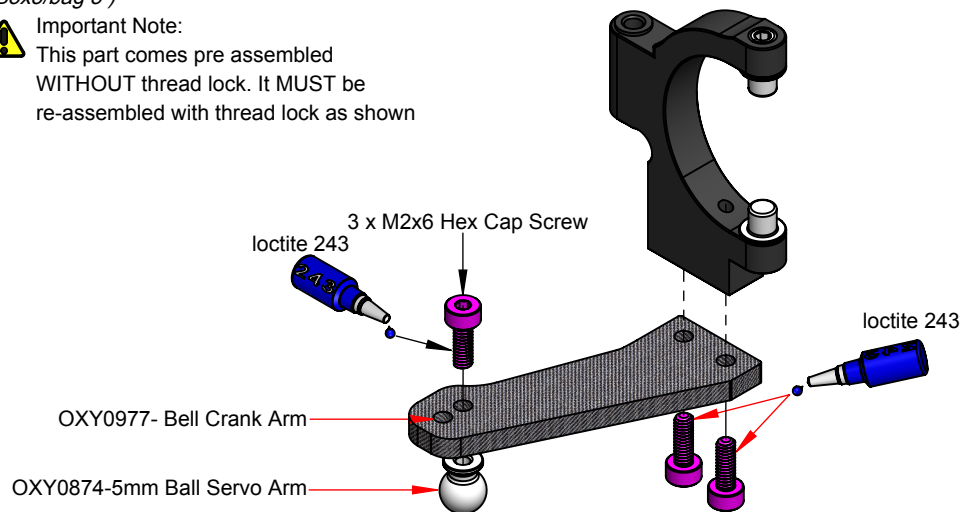
*Tail Belt Crank Support Assembly
(Box3/bag 5)*



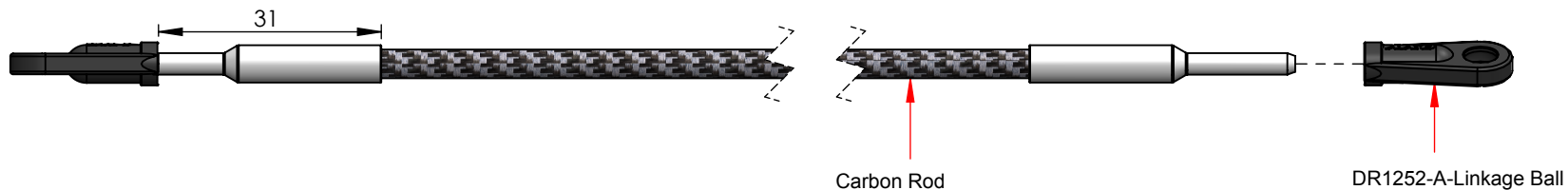
⚠ Important Note:
This part comes pre assembled WITHOUT thread lock. It MUST be re-assembled with thread lock as shown

*Tail Belt Crank Support Assembly
(Box3/bag 5)*

⚠ Important Note:
This part comes pre assembled WITHOUT thread lock. It MUST be re-assembled with thread lock as shown



Tail Push Rod Assembly



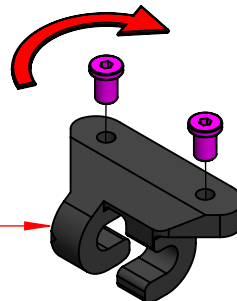
Step 1



Note: to install this pin screw rotate counter clock wire



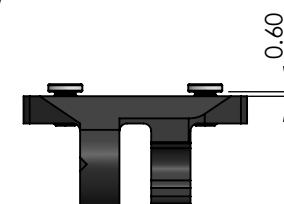
Note Pin Screw Thread: Pin Screw Oxy designed the Pin Screw with a counter clockwise thread. This will help on the final locking operation. Be careful to follow our instructions to get a perfect assembly



OXY0620-Guide
Push Rod

Step 2

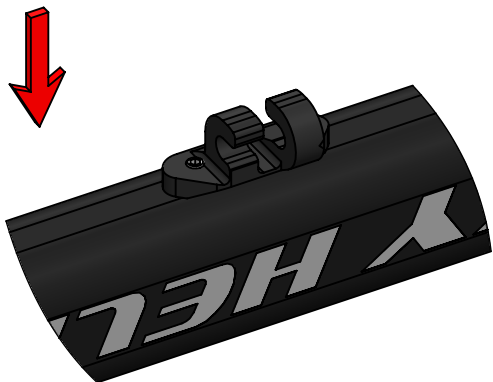
Note: Install the Pin Screw and leave a gap as shown.



0.60

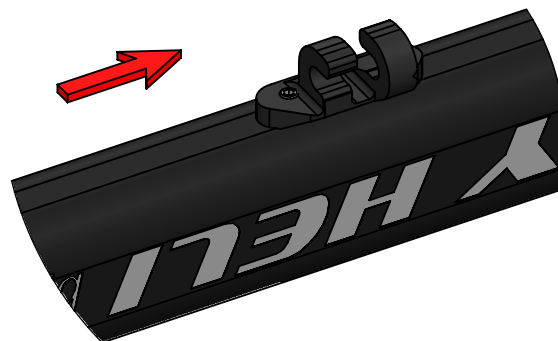
Step 3

Push the part inside the boom sockets as shown



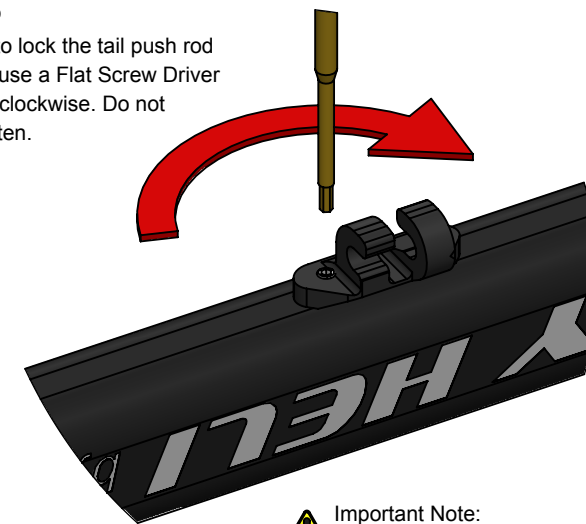
Step 4

Slide the parts as shown

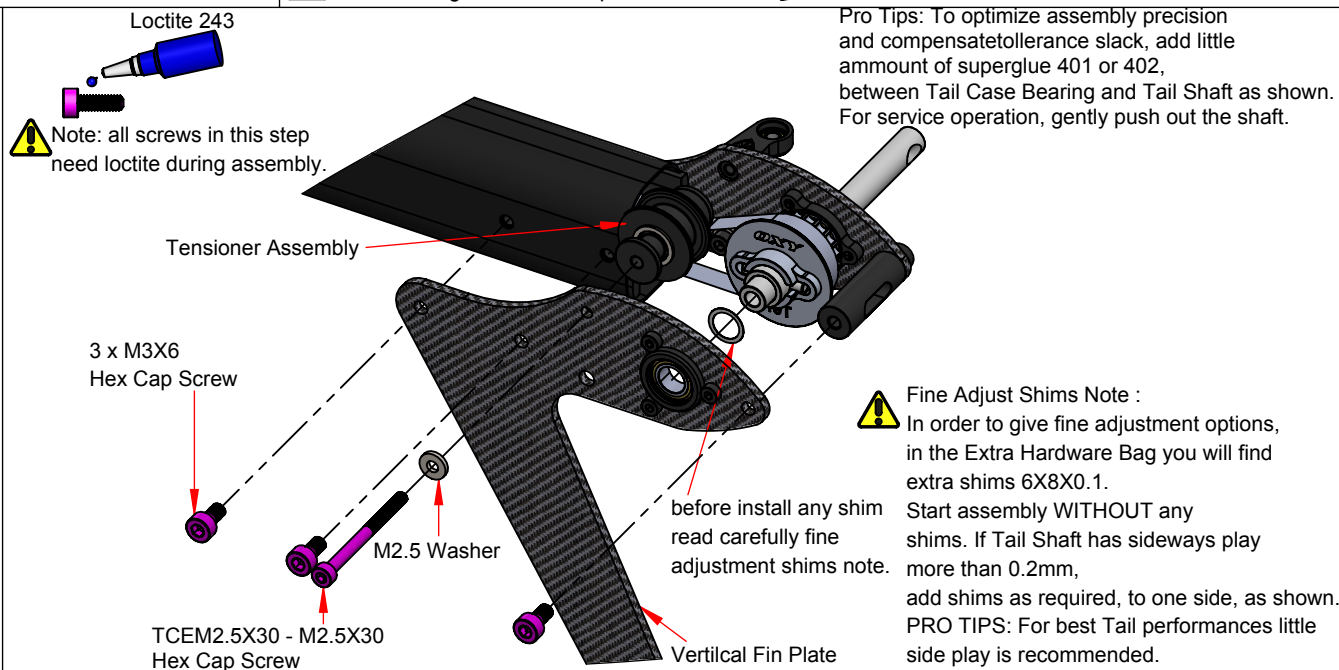
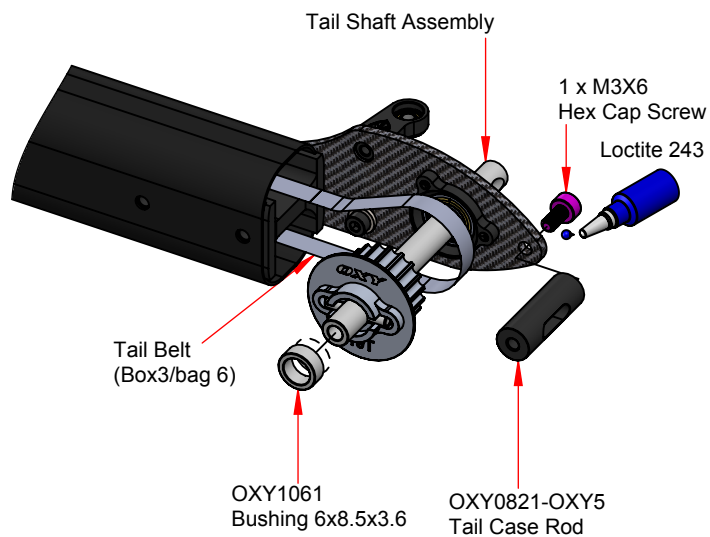
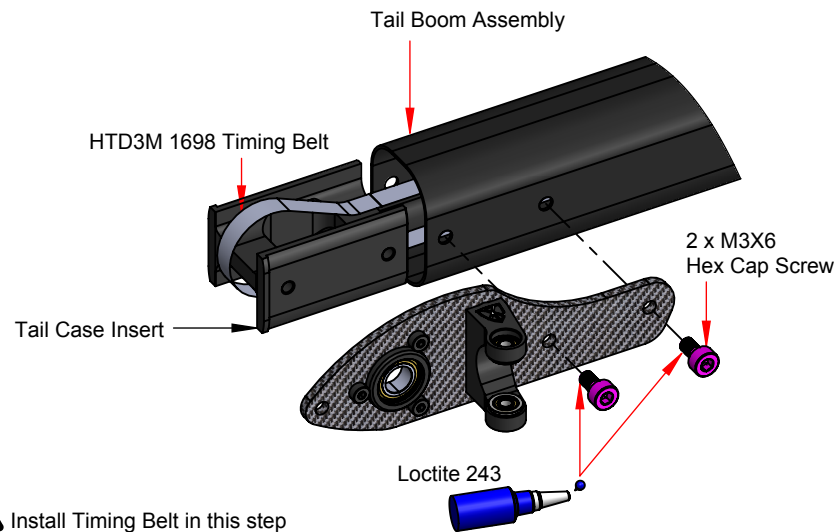
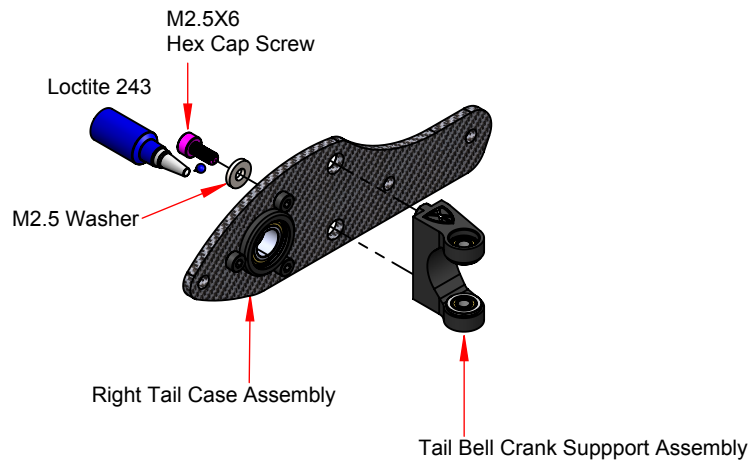


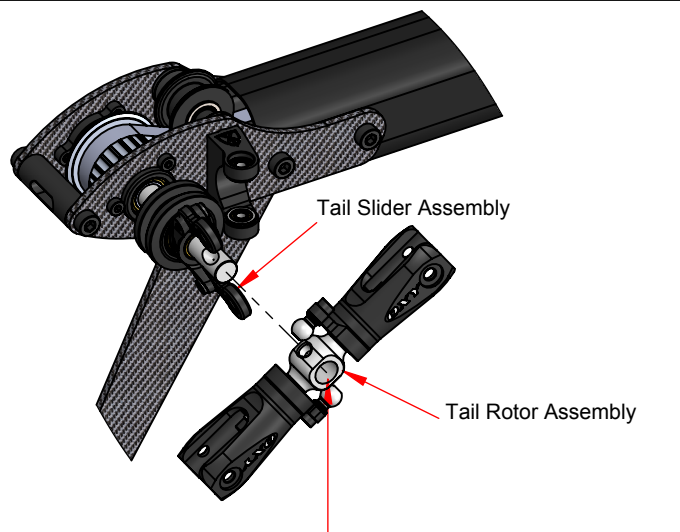
Step 5

In order to lock the tail push rod support, use a Flat Screw Driver and turn clockwise. Do not over tighten.

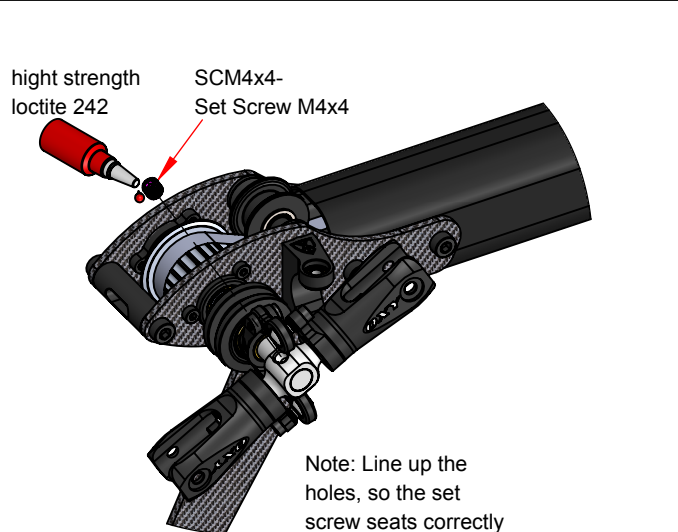



Important Note:
This part, for tuning reasons,
comes factory pre assembly,
it's ready to use.

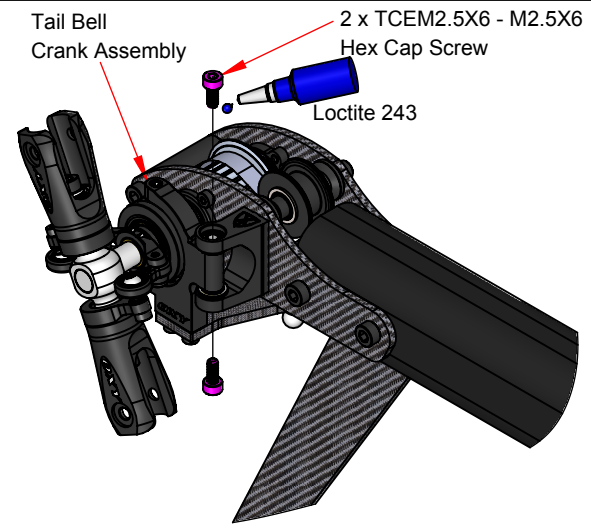





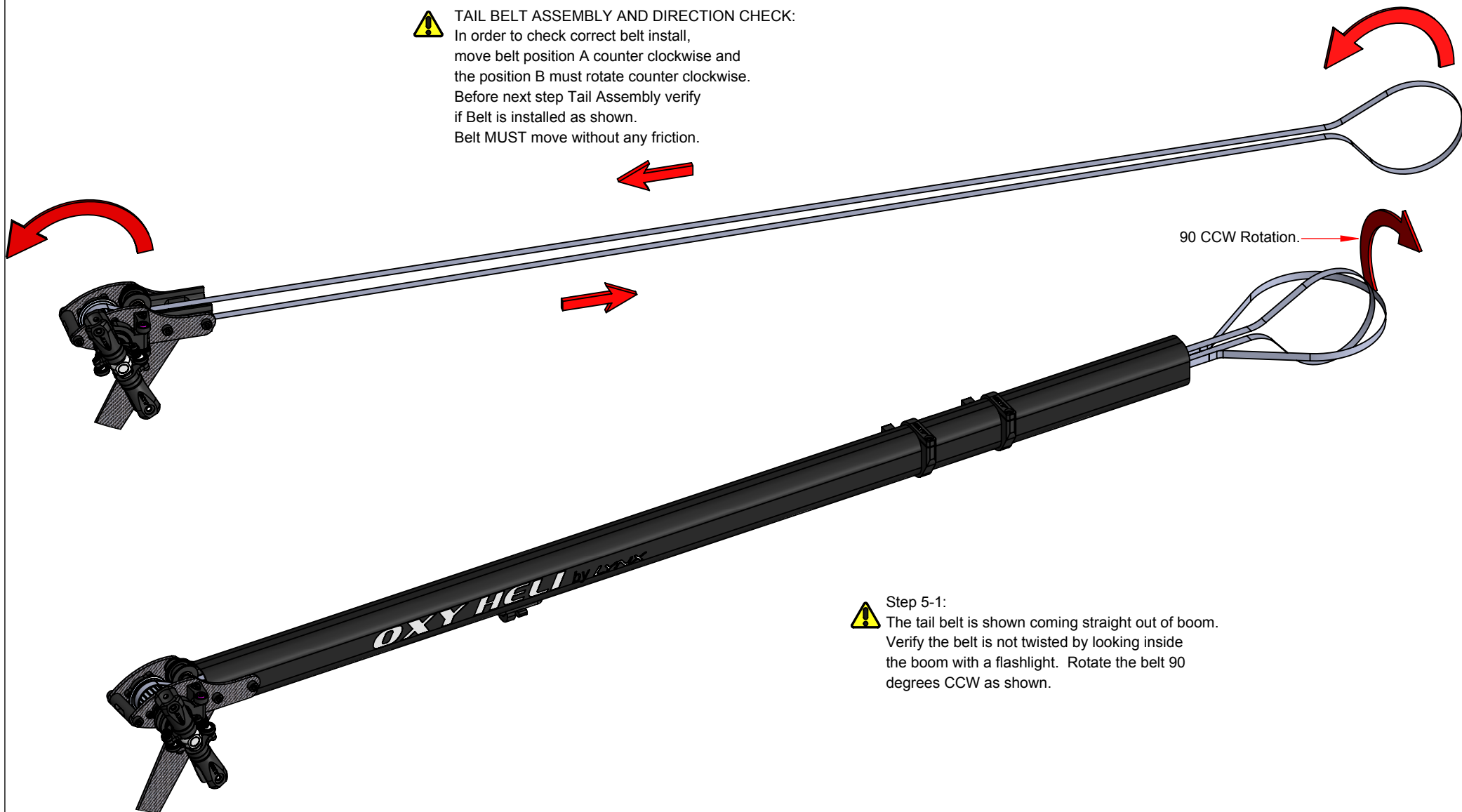
Pro Tips: add little ammount of loctite 243 between Tail Hub and Tail Shaft , will increase the assemby precision and strenght.
For service operation, heat with lighter the Hub and unlock lockthread.




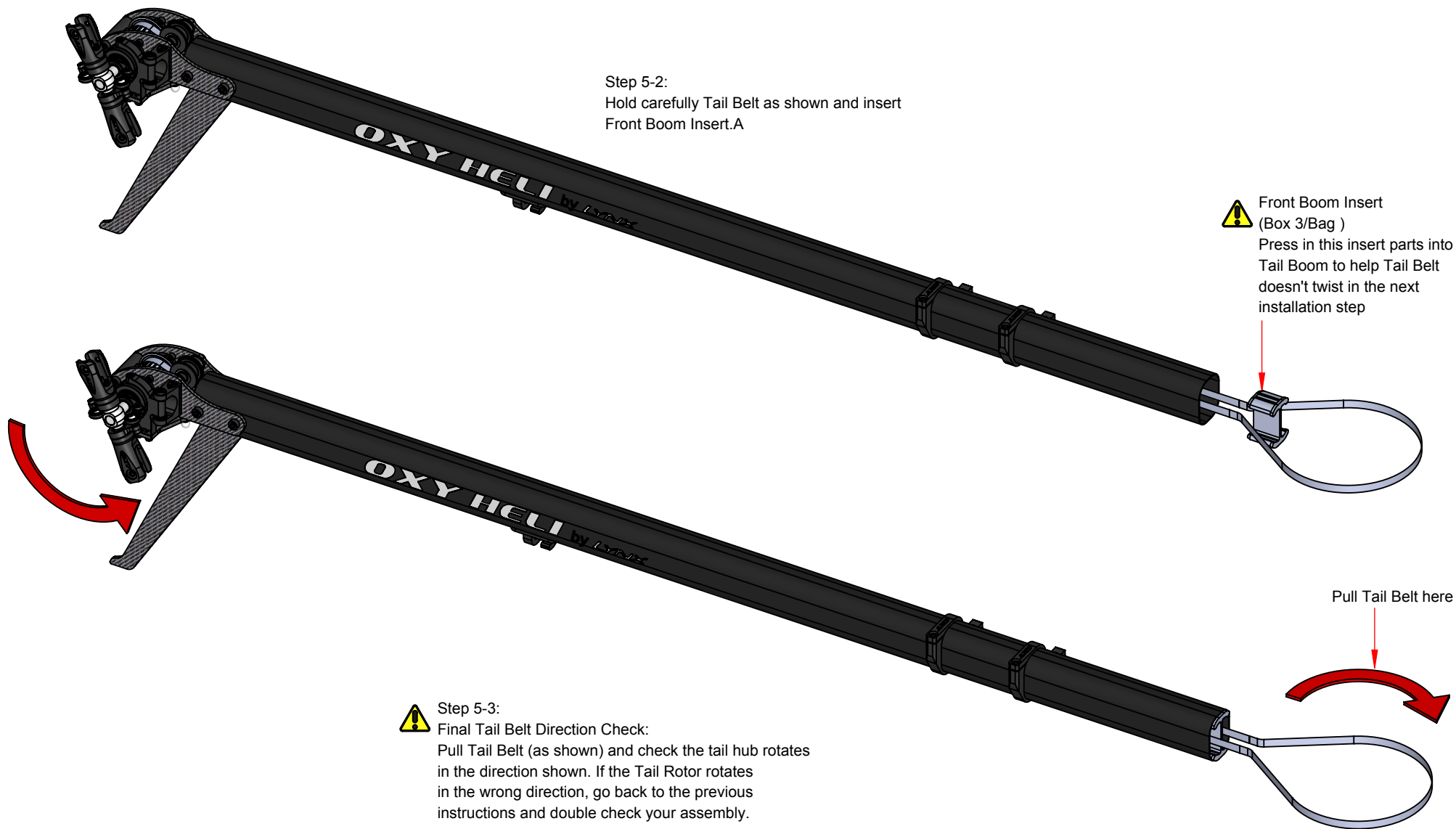
Note: Line up the holes, so the set screw seats correctly into tail shaft lock hole and lock tighten.
 For service operation, heat with lighter the Hub and unlock lockthread.



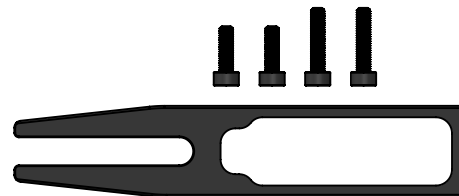
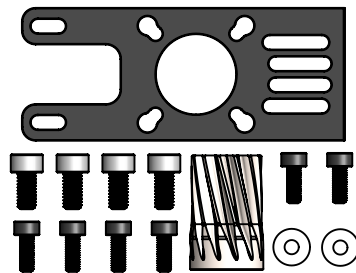
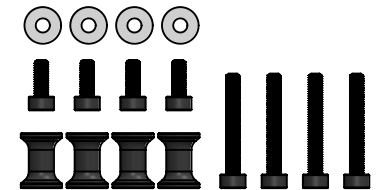
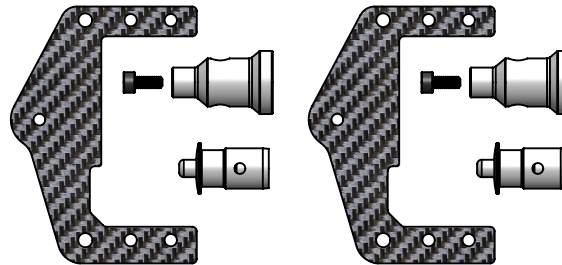
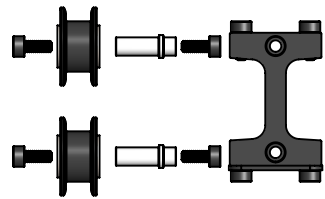
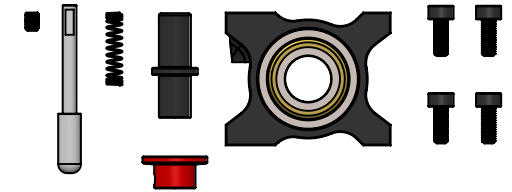
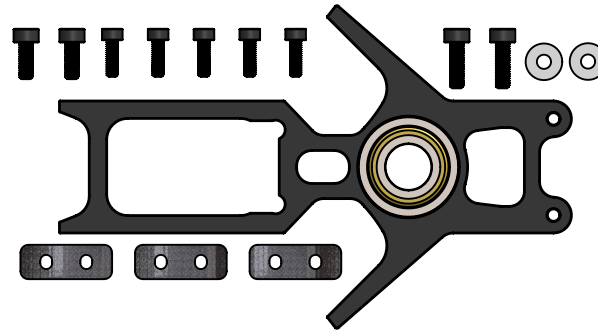
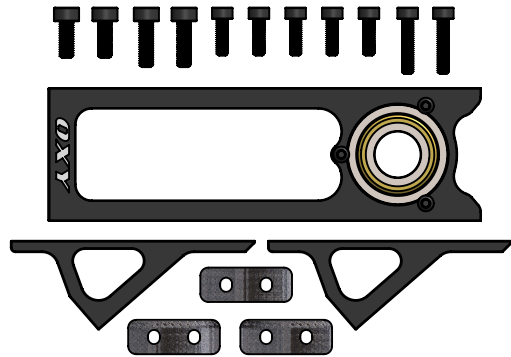
 **TAIL BELT ASSEMBLY AND DIRECTION CHECK:**
 In order to check correct belt install,
 move belt position A counter clockwise and
 the position B must rotate counter clockwise.
 Before next step Tail Assembly verify
 if Belt is installed as shown.
 Belt **MUST** move without any friction.



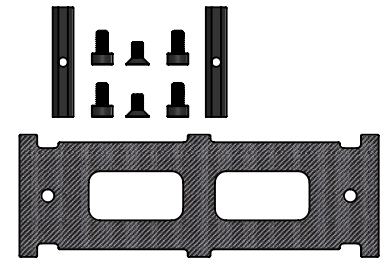
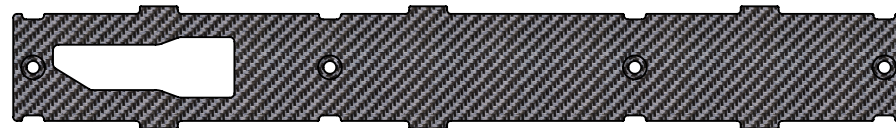
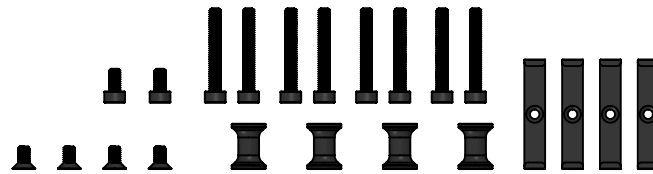
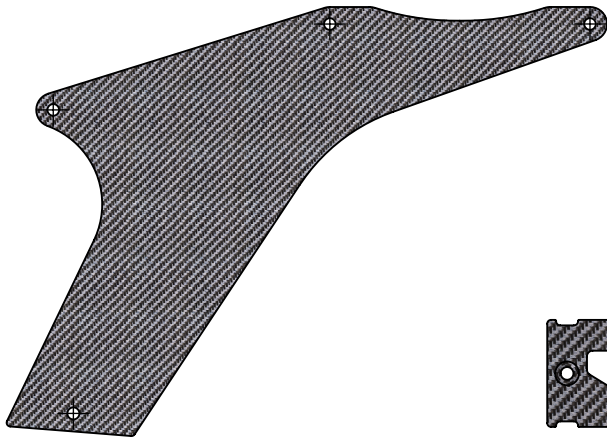
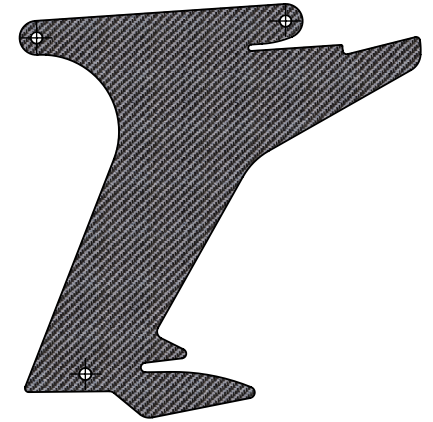
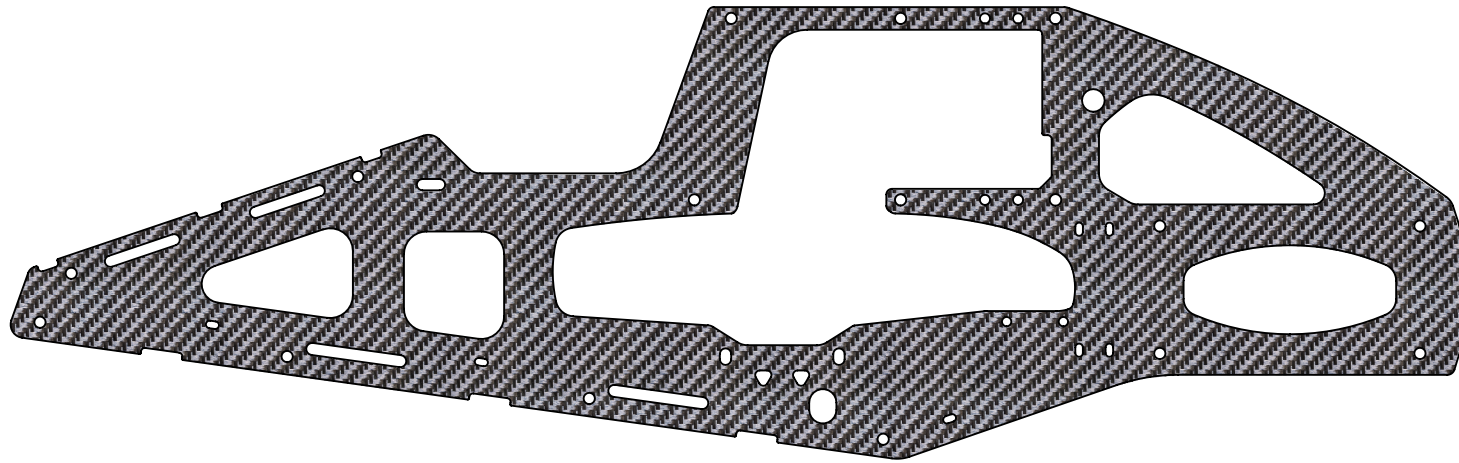
 **Step 5-1:**
 The tail belt is shown coming straight out of boom.
 Verify the belt is not twisted by looking inside
 the boom with a flashlight. Rotate the belt 90
 degrees CCW as shown.



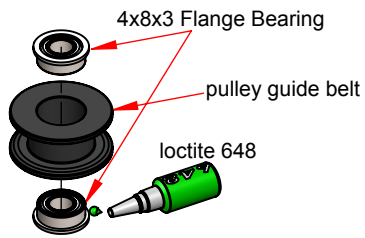
Frame Set Assembly Parts 1/2



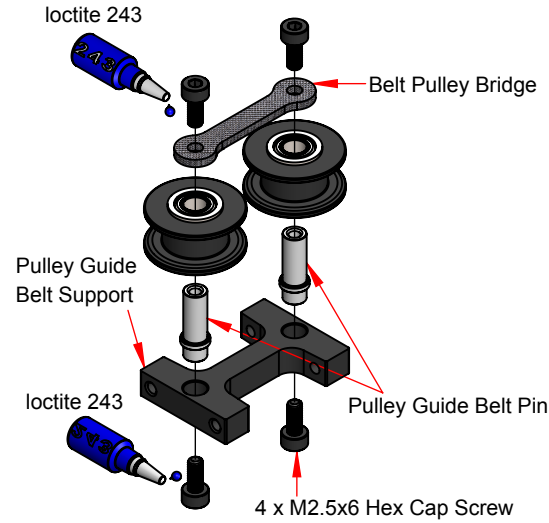
Frame Set Assembly part 2/2



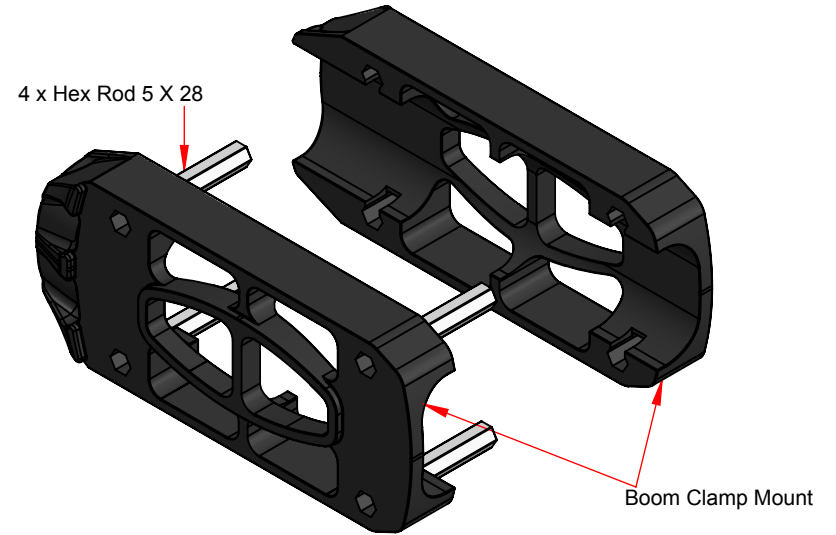
Front Pulley Guide Belt
(Box3/bag 8)



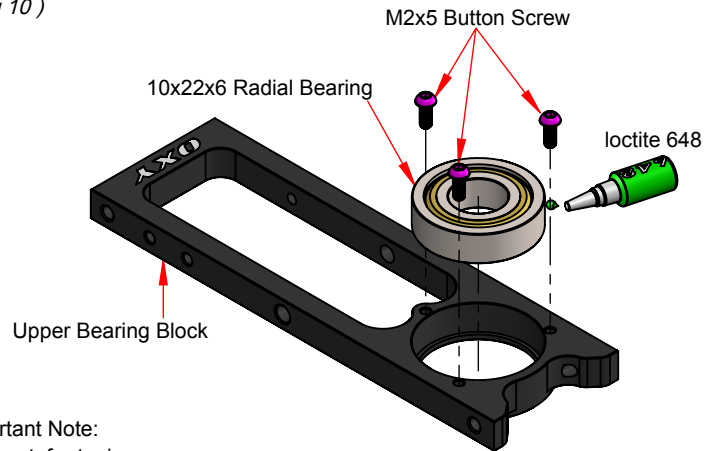
Important Note:
This part, for tuning reasons, comes factory assembled, it's ready to use.



Boom Clamp Mount
(Box3/bag 9)

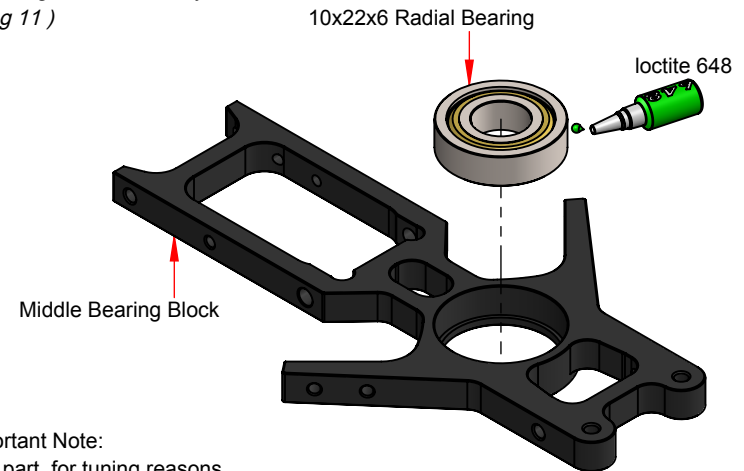


Upper Bearing Block Assembly
(Box3/bag 10)



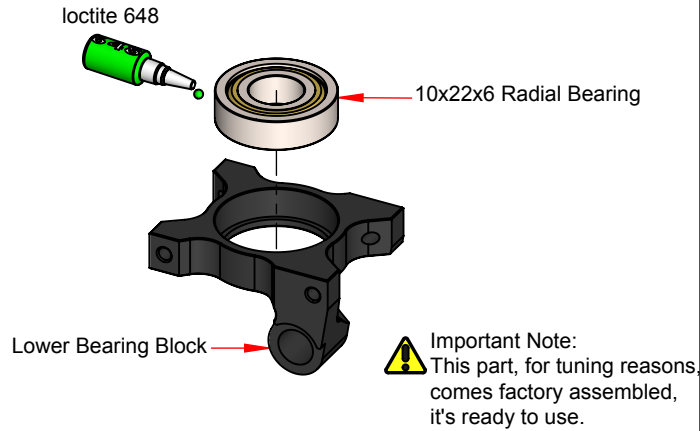
Important Note:
This part, for tuning reasons, comes factory assembled, it's ready to use.

Middle Bearing Block Assembly
(Box3/bag 11)

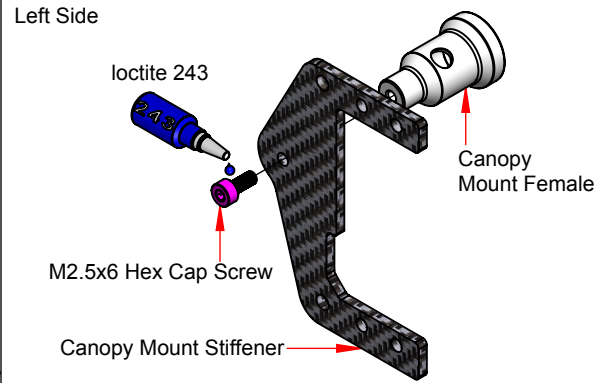


Important Note:
This part, for tuning reasons, comes factory assembled, it's ready to use.

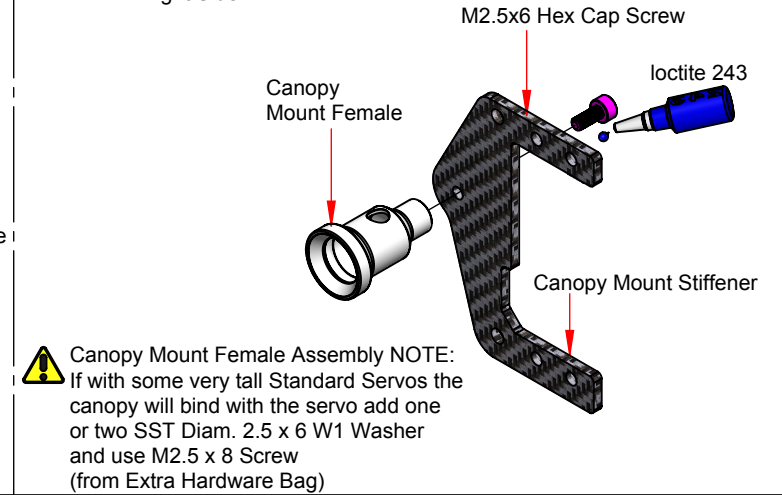
Lower Bearing Block Assembly
(Box3/bag 12)



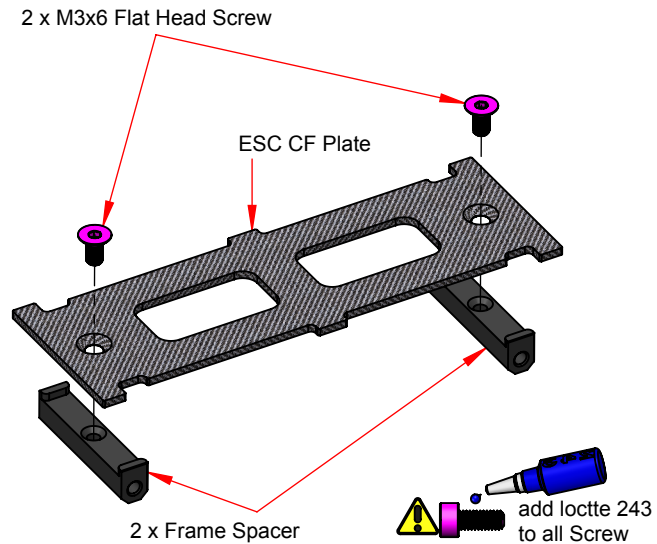
Canopy Mount Assembly
(Box3/bag 13)



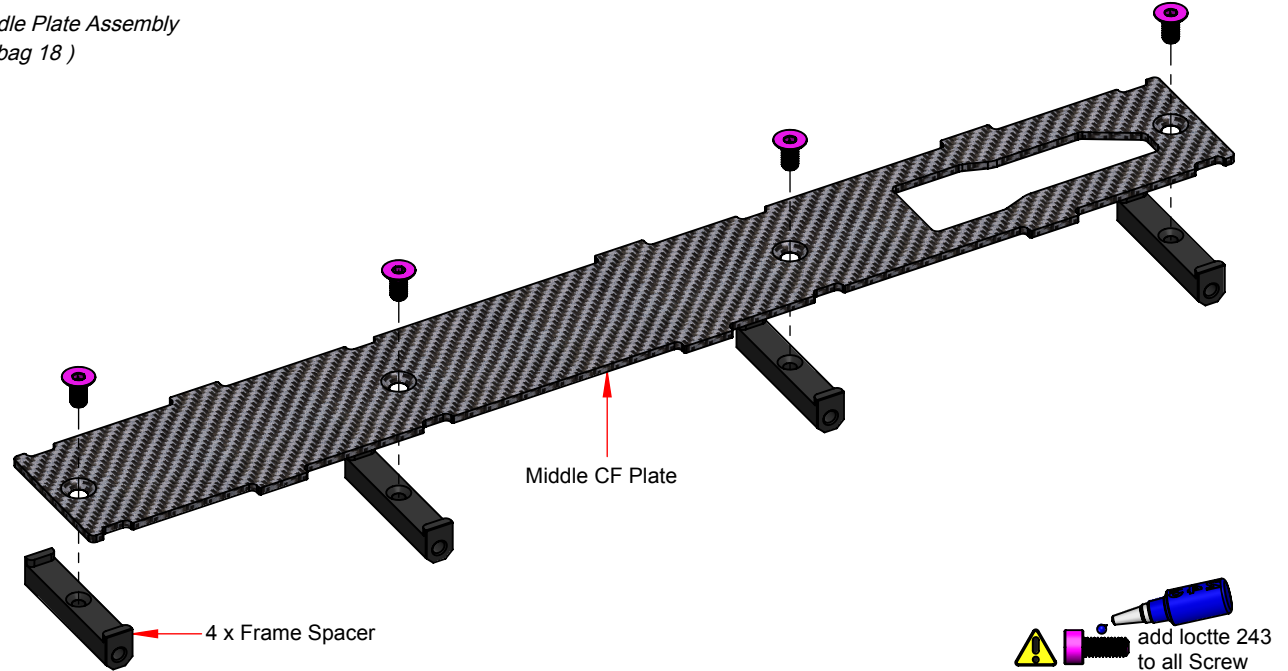
Right Side

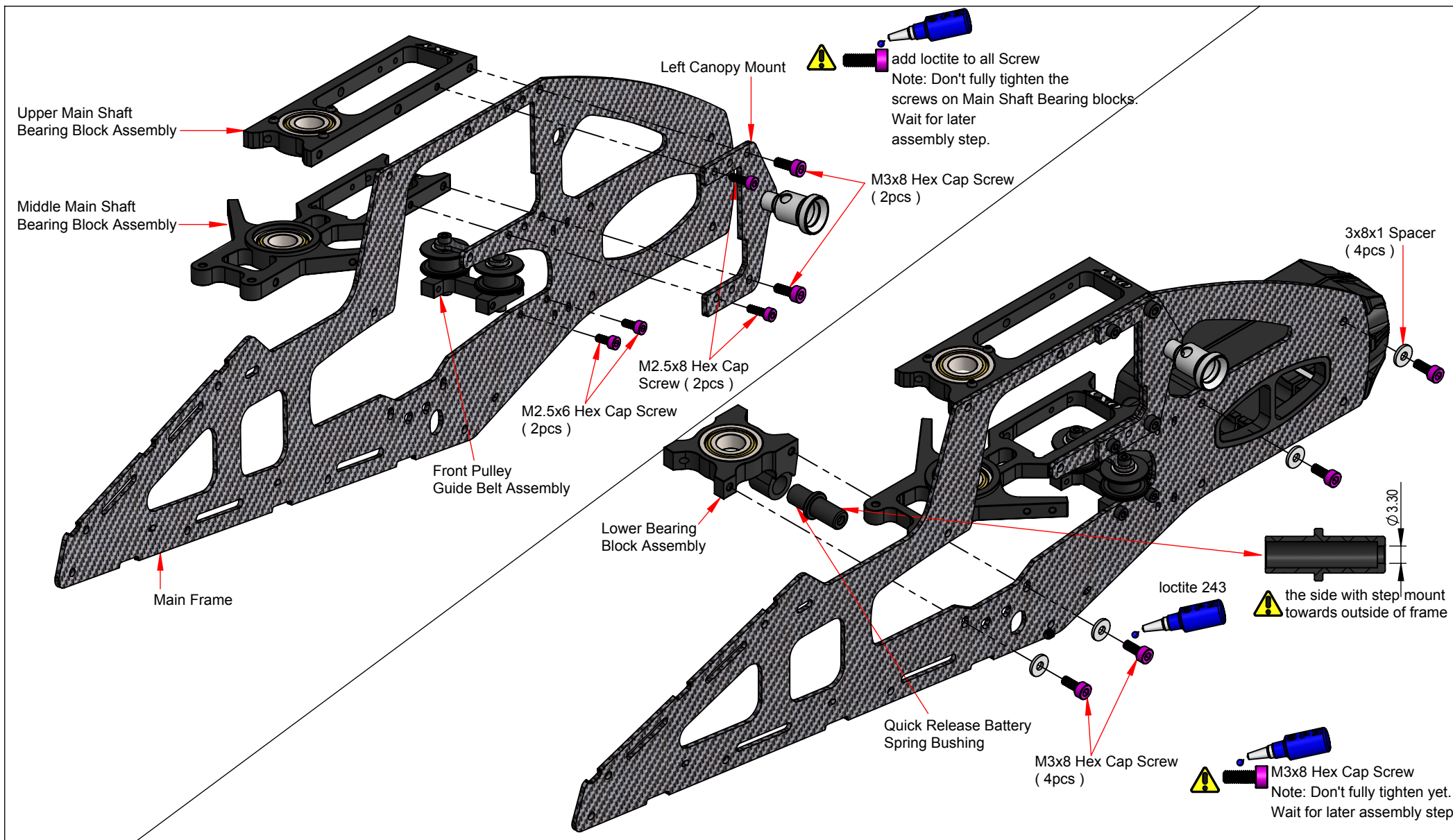


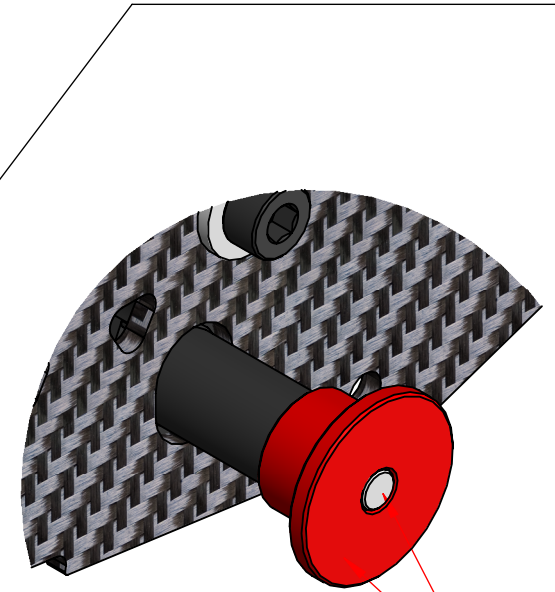
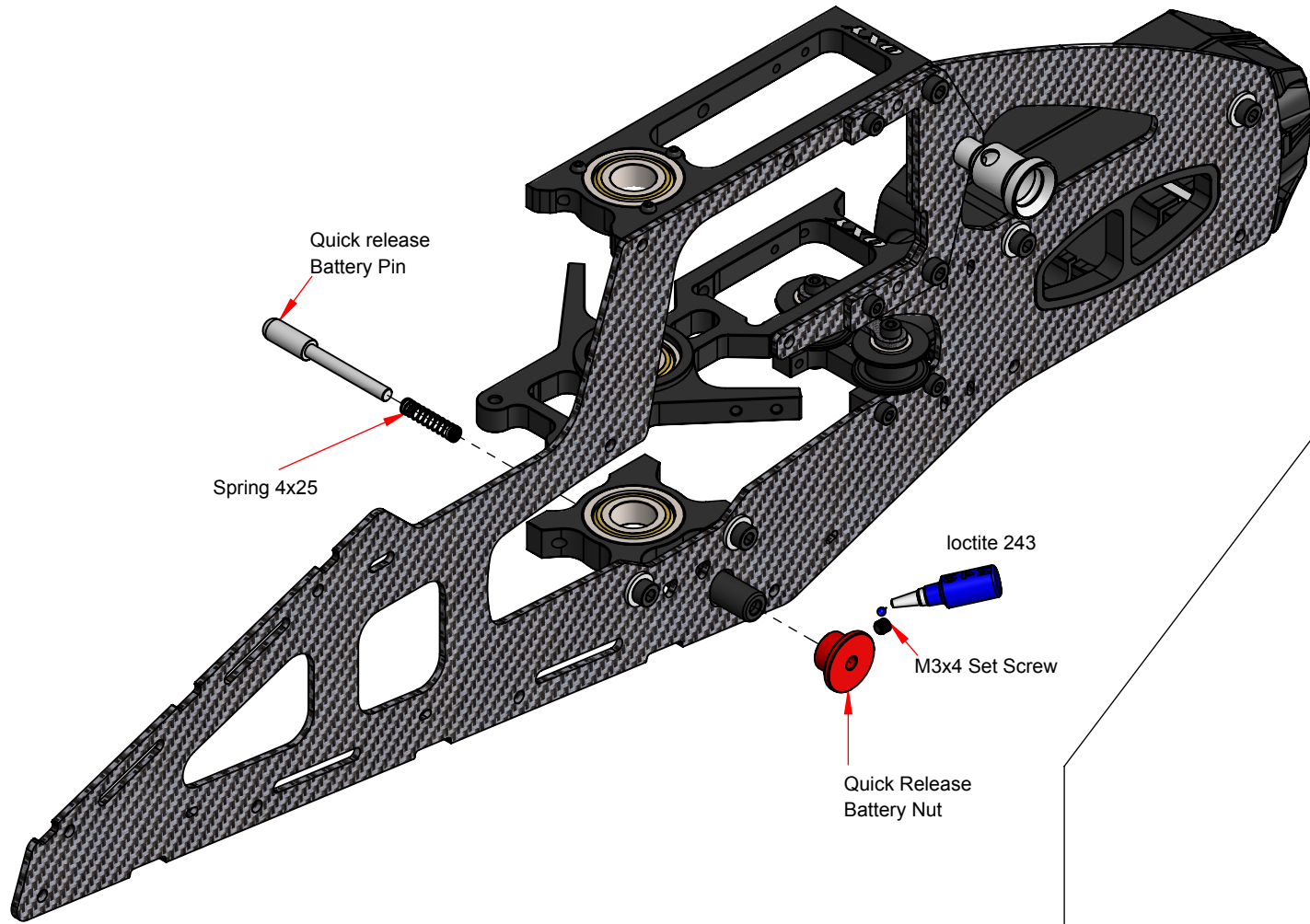
ESC Plate Assembly
(Box2/bag 17)




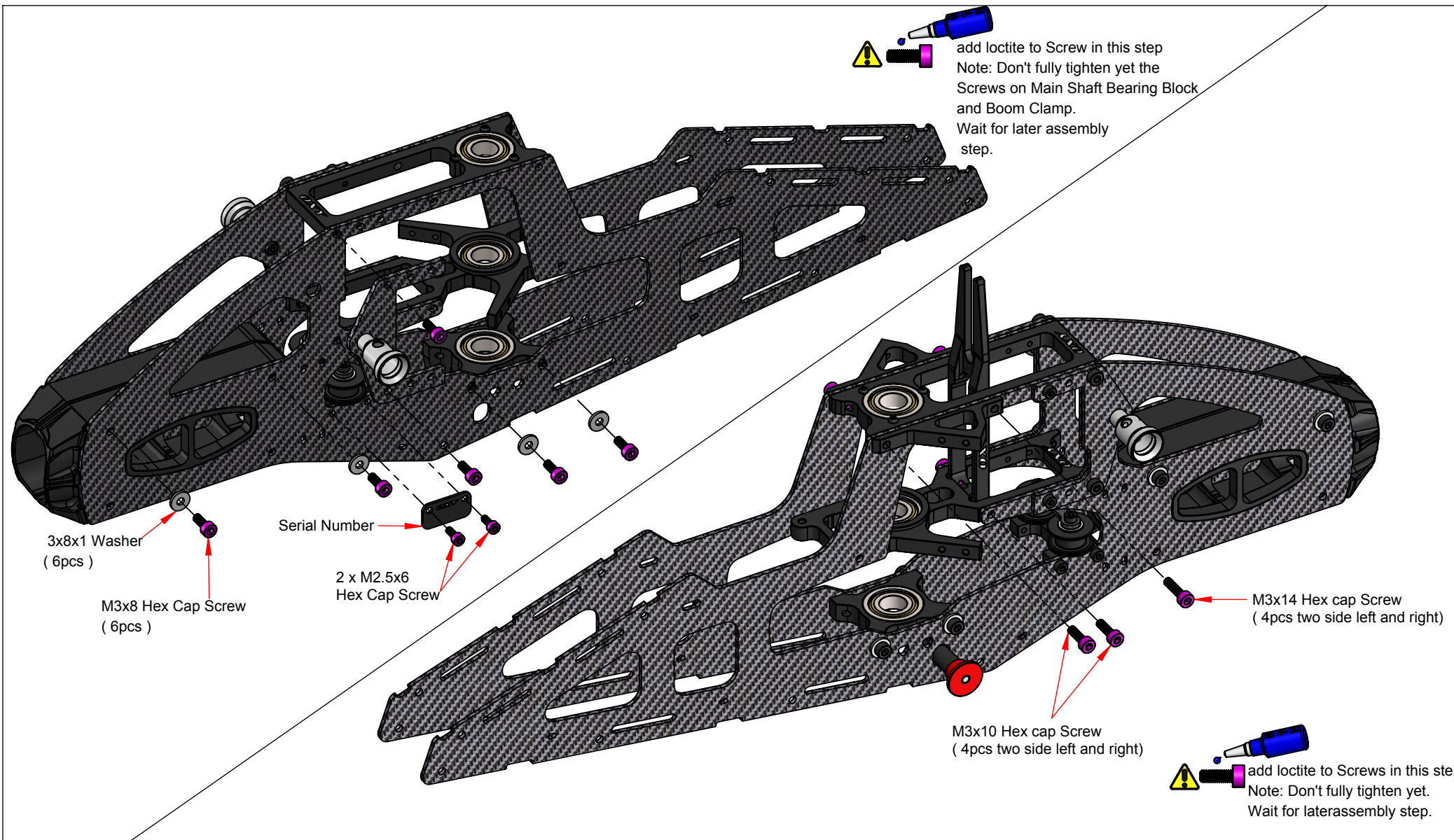
CF Middle Plate Assembly
(Box2/bag 18)

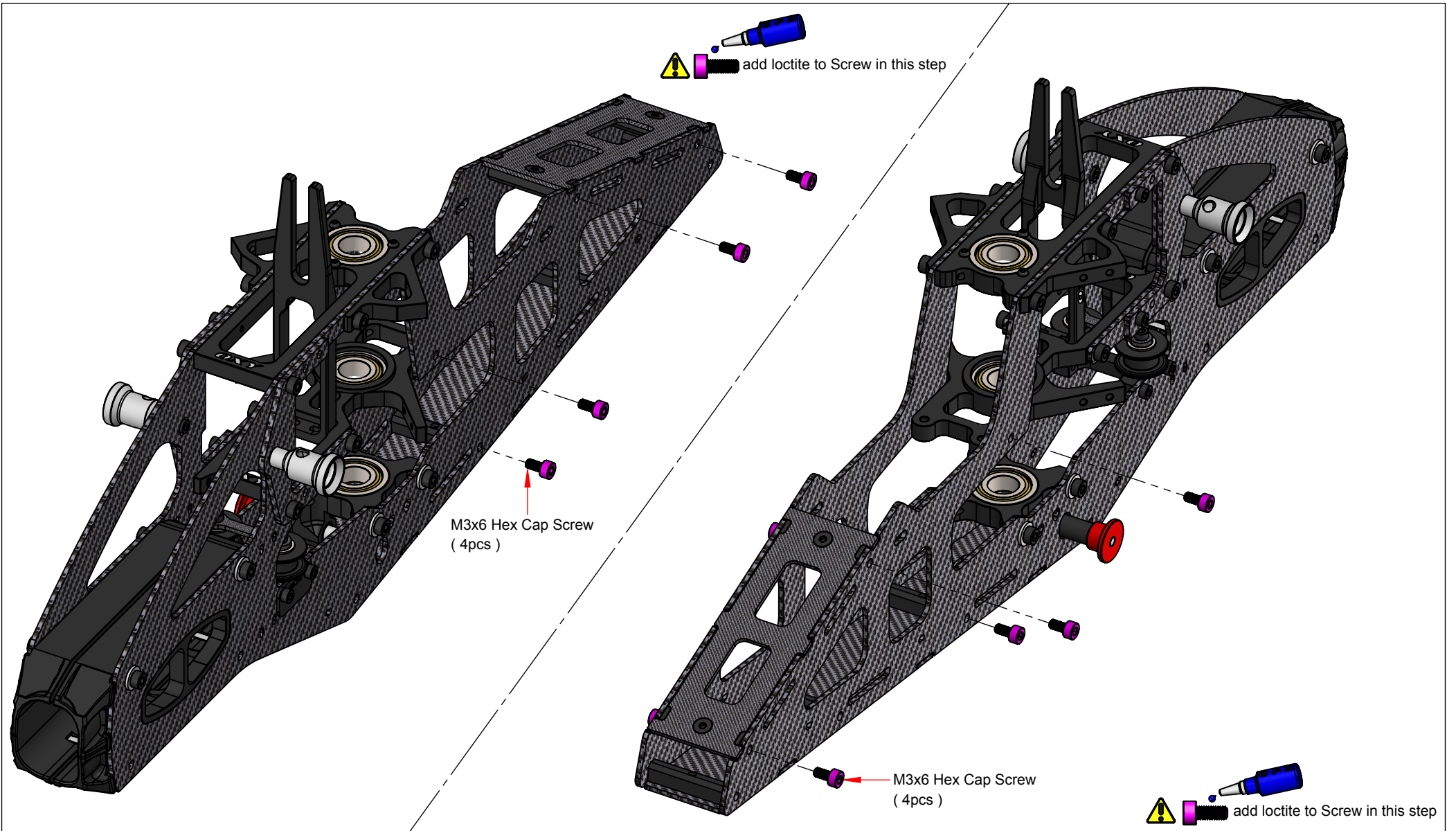


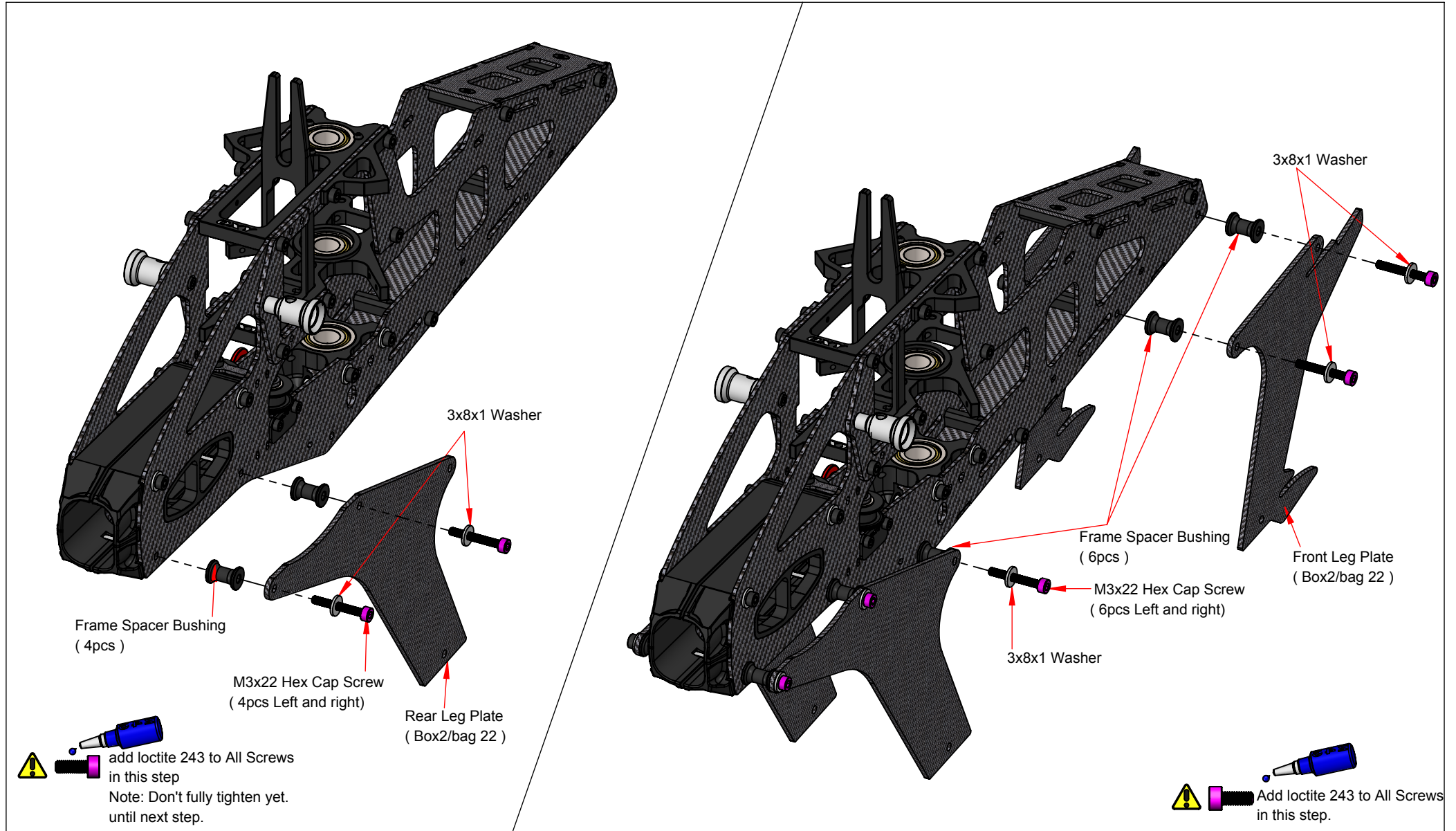




 Quick Release Battery Nut and Pin must be flush after installation

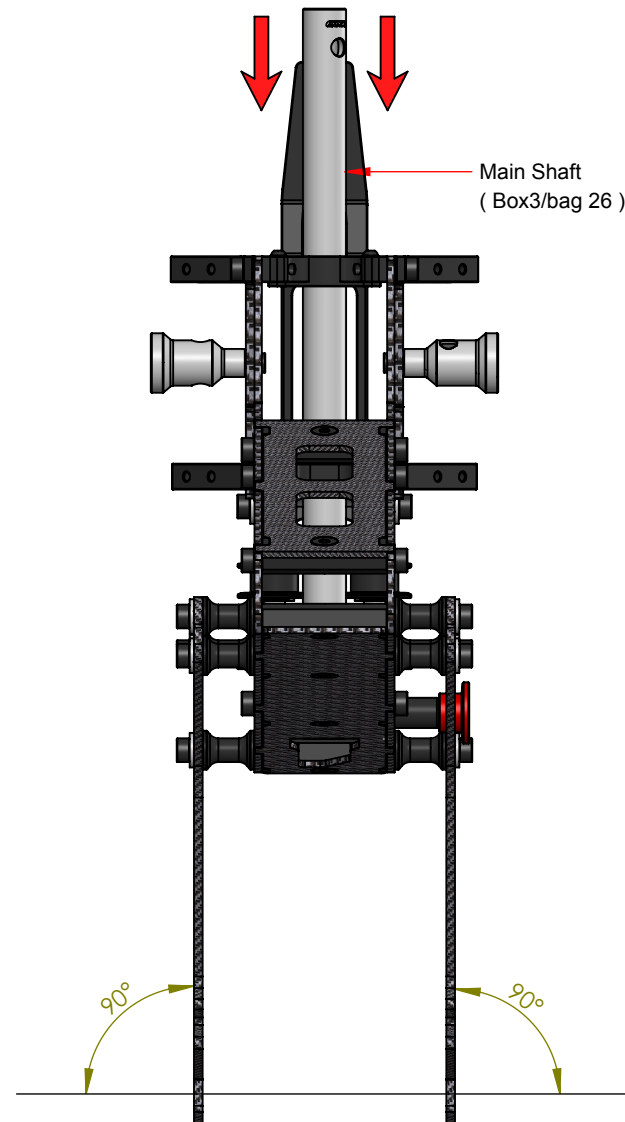




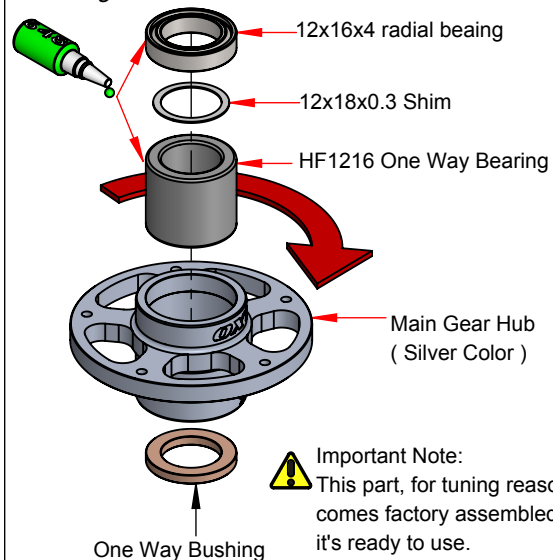




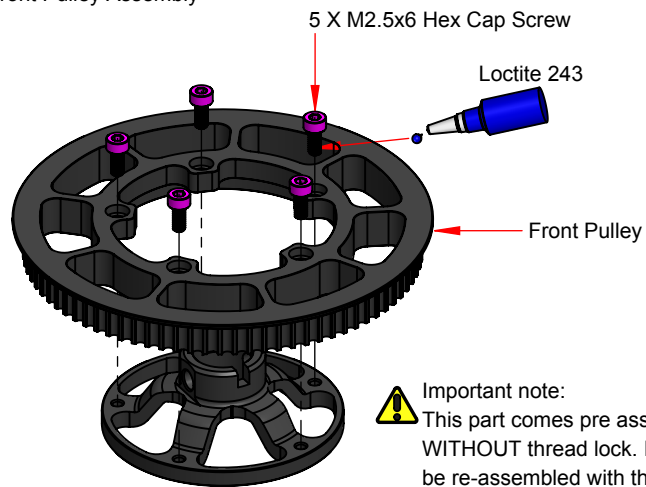
Install main shaft with frame assembly on a flat surface, push down on both frames together and then fully tighten all Hex Cap Screws (x14) holding the Upper and Middle bearing blocks.



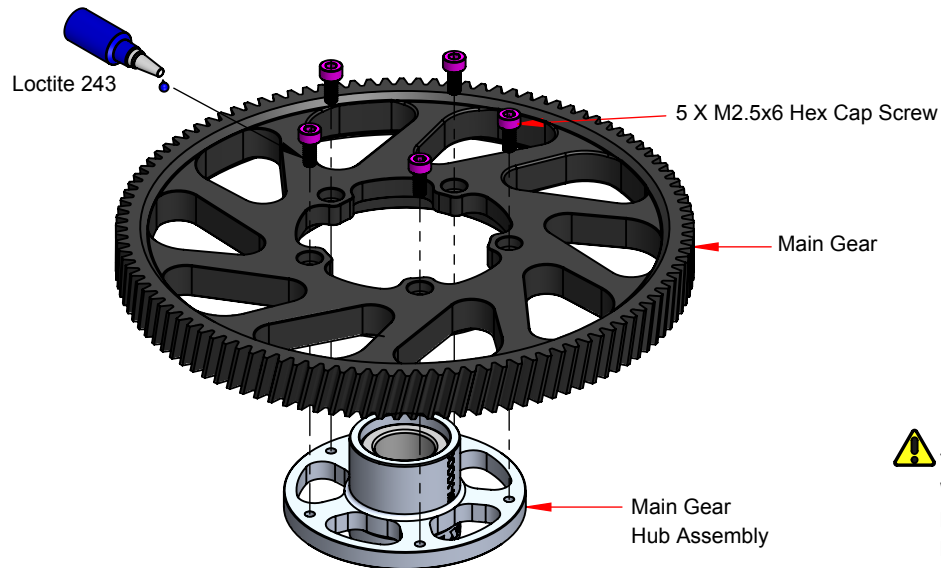
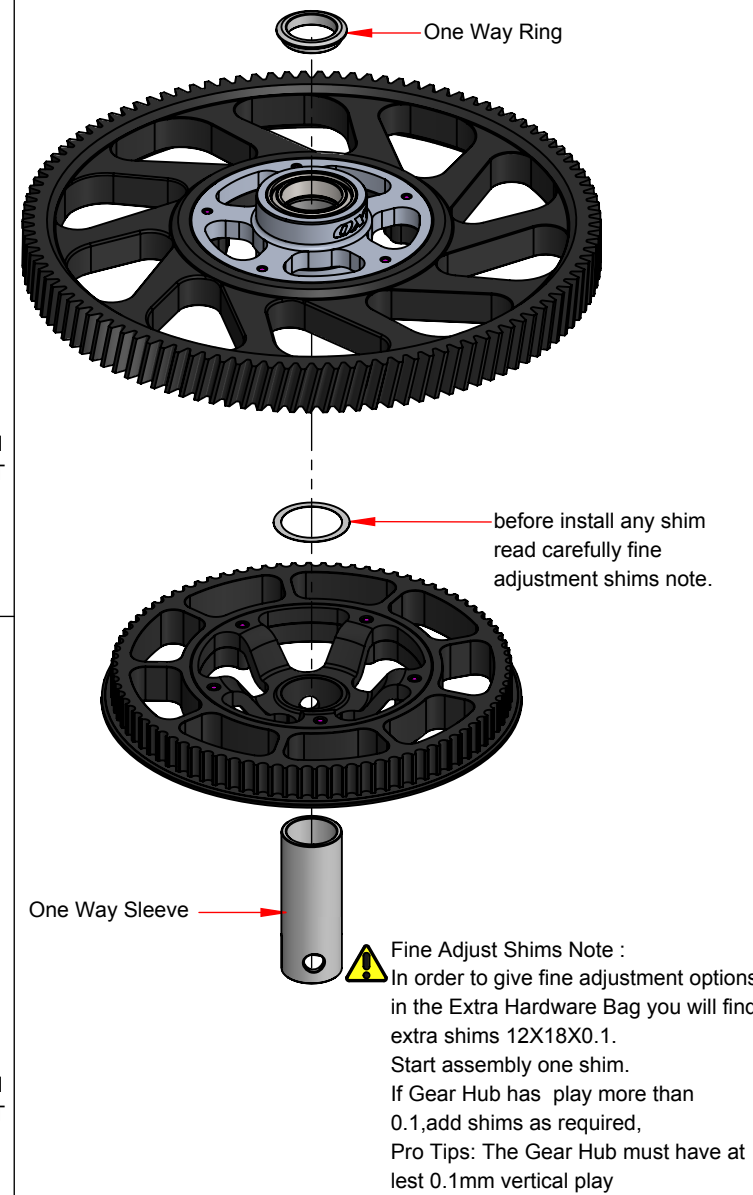
Main Gear Hub Assembly
Box3/bag 23



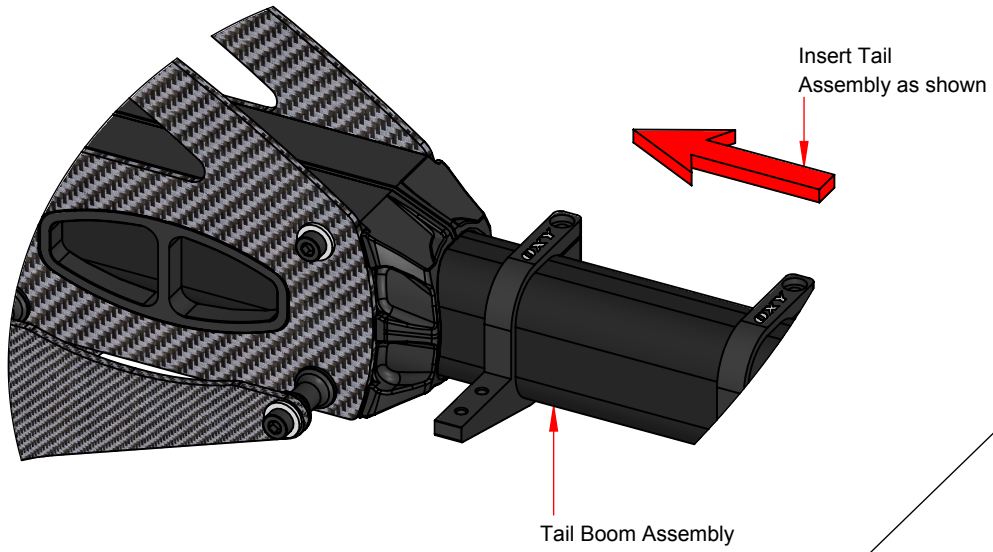
Front Pulley Assembly




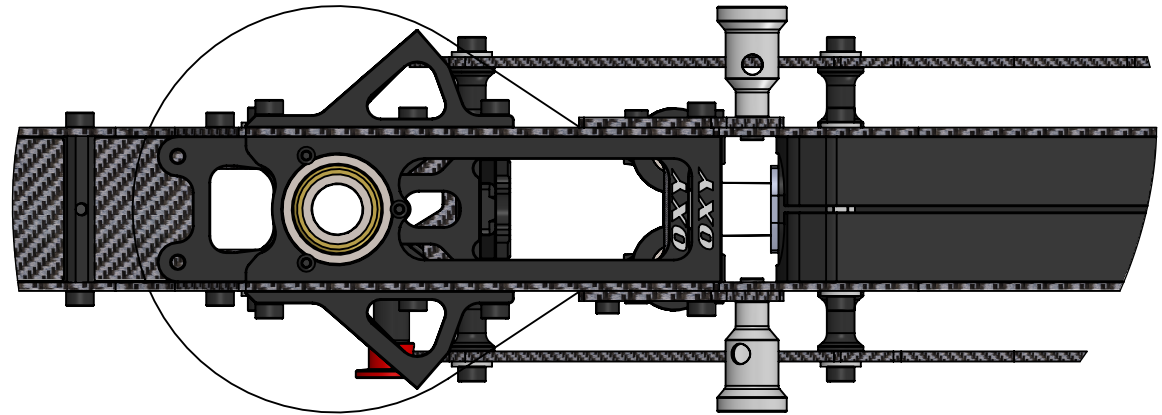
Important note:
This part comes pre assembled WITHOUT thread lock. It MUST be re-assembled with thread lock as shown.

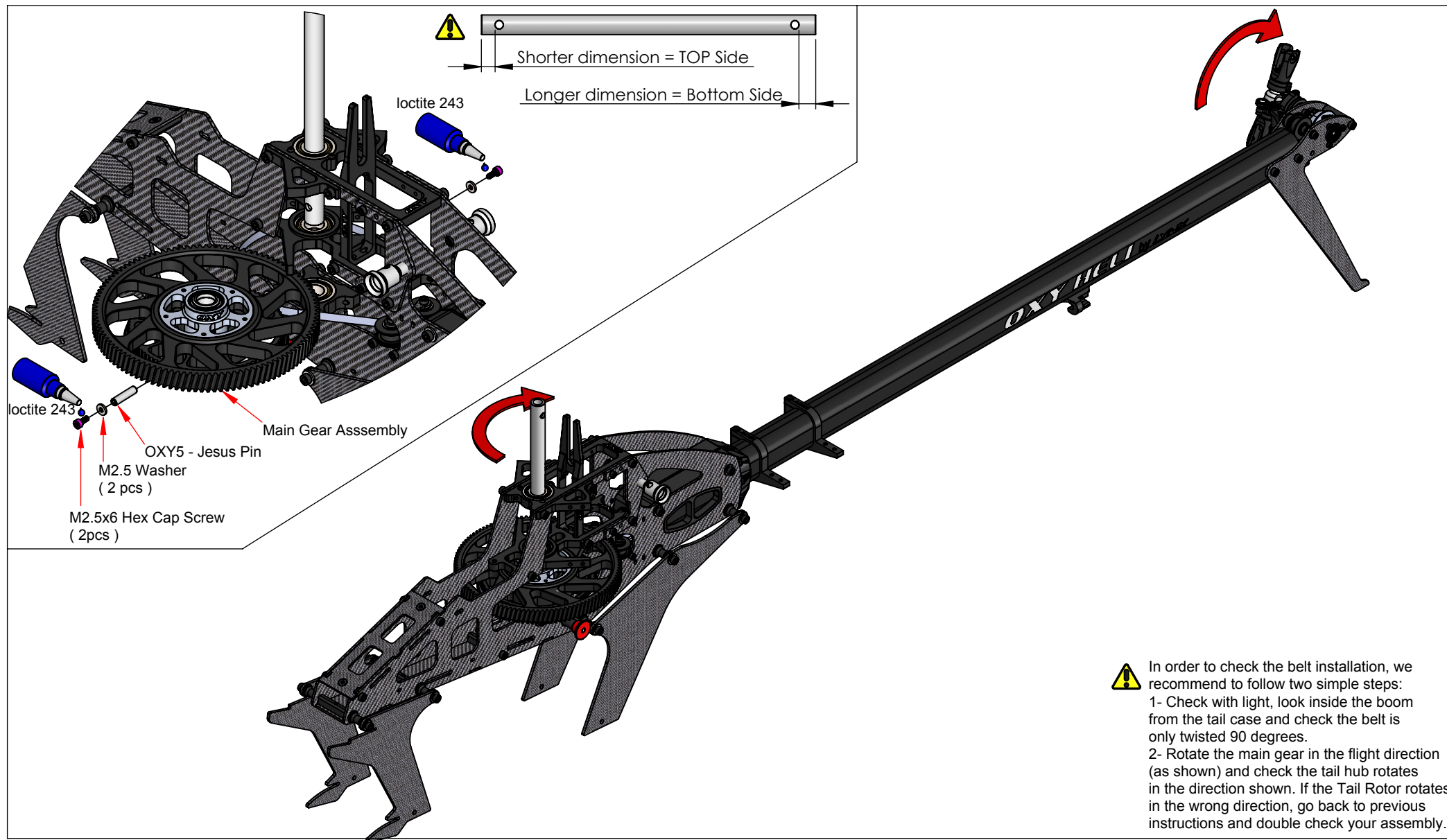


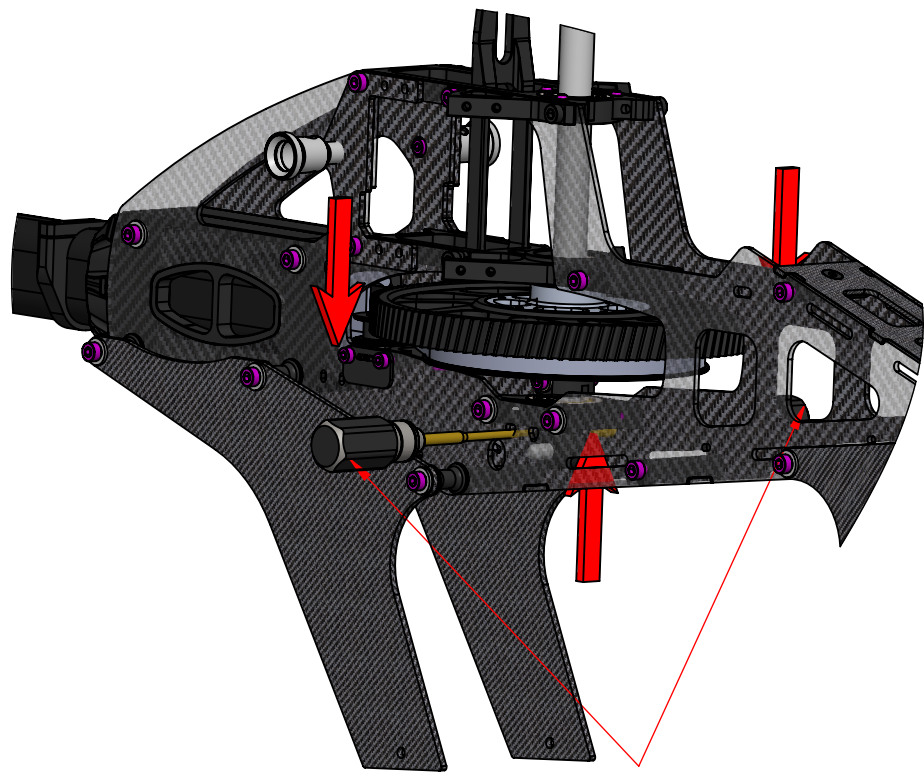
Important note:
This part comes pre assembled WITHOUT thread lock. It MUST be re-assembled with thread lock as shown.



 Before next assembly step verify Tail Belt assembly position as shown.

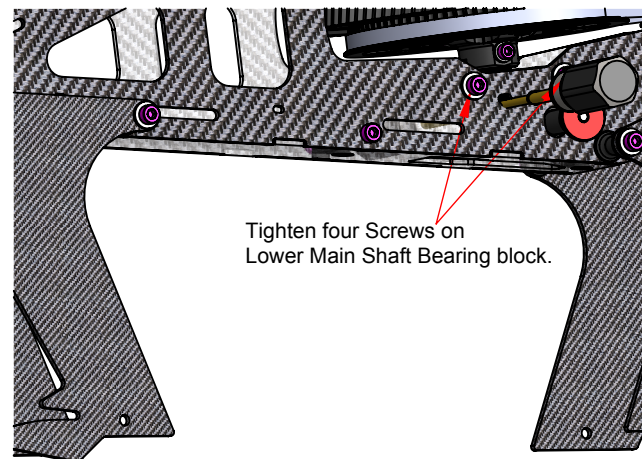






Use Two Screw Driver to lift up
Lower Main Shaft Bearing block

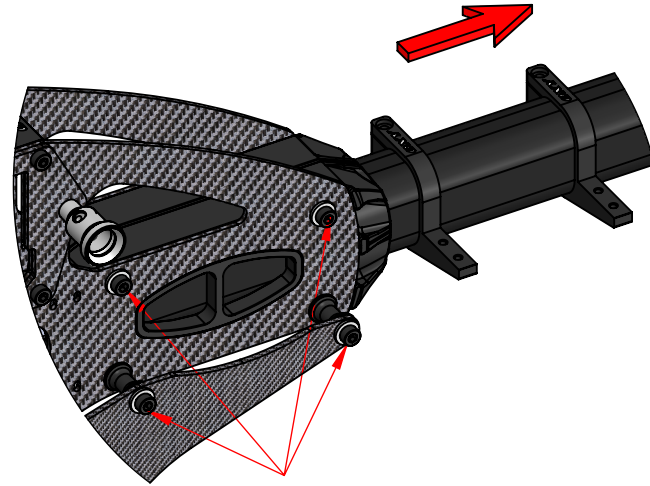
In order to remove Main Shaft vertical play, Lower Bearing Block MUST move UP!
To remove eventually residual Main Shaft vertical play, gently increase Jesus Pin Screw tighten.



Tighten four Screws on
Lower Main Shaft Bearing block.

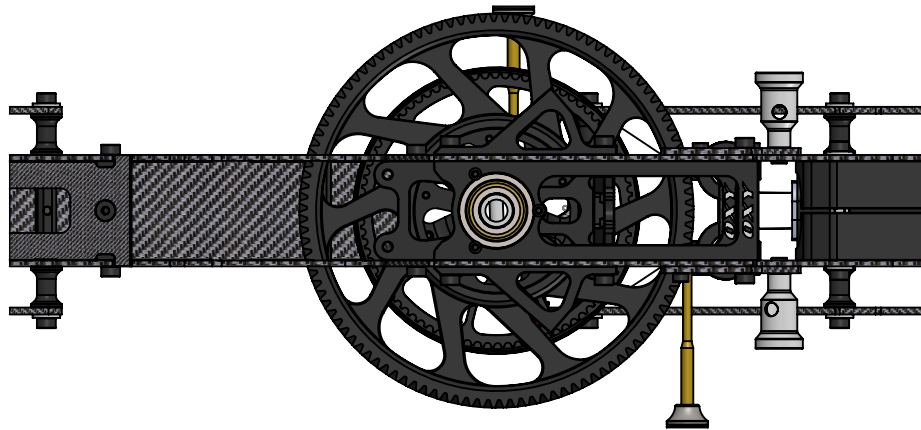


Lower bearing block adjustment. The lower bearing block locks the main gear assembly and shaft in position to prevent vertical movement. Begin by lightly setting mounting screws so that the block will stay, but still move. Using 2 Allen drivers through holes in frame to move the lower bearing block upwards till no more movement then tighten the mounting screws. Once adjusted, you should be able to replace main gear assembly without change to lower bearing block position.



Pull Tail Boom and lock
all Screw on Boom Mount

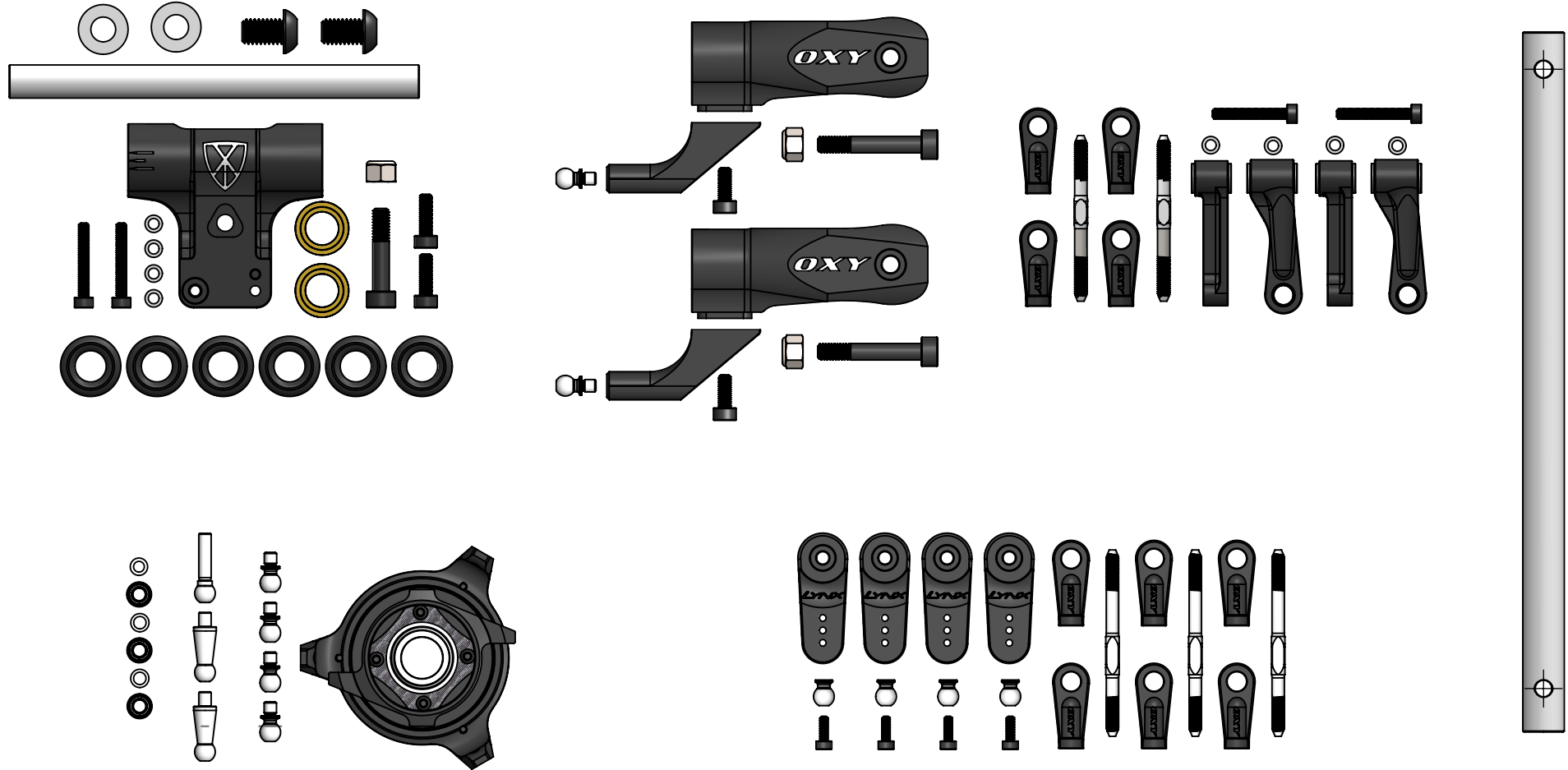
- Be sure the boom is assembled and installed correctly.
- Loosen the tail boom by loosening the eight Hex Cap Screws on Boom Mount.
- Adjust the Belt tension by pulling on the Tail Boom.
- Tighten the eight Hex Cap Screws on Boom Mount.
- The belt must have good tension. We suggest re-checking after a few flights. We suggest to check belt tension often, before each flying session.
- If spool up get difficult, may Tail Belt is over tight, recheck and eventually loose Belt tension little bit
- If the belt is often loose, you should check the lock system or belt integrity.
- Tests show that a hard 3D pilot can perform over 400 flights before the belt will fail. We recommend replacing the Tail Belt after 300 flights, even if it does not show wear, to avoid it breaking unexpectedly in flight.
- After a crash, spend some time checking Belt integrity and replace if any teeth are missing.



Use a Screw Driver to check
Belt Tension (suggested max
deflection is 1mm)

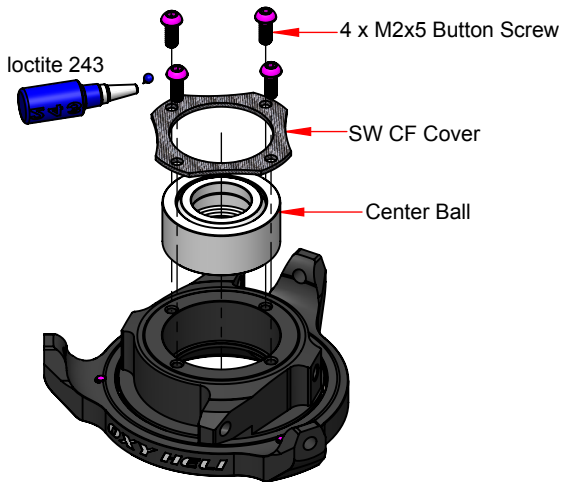
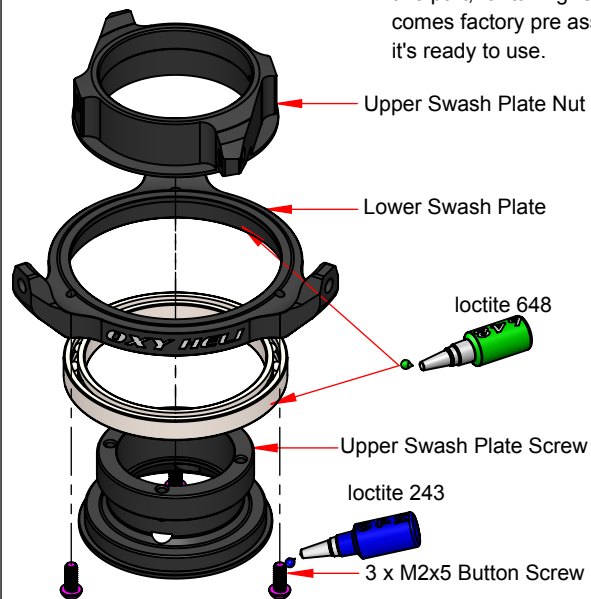
- Note: We recommend a tight Belt tension.
- If motor struggles during spool up, the belt tension may be too tight. Recheck tension and loosen slightly as needed.
- Check the Belt tension again after the first 2 flights.
- With a new Tail Belt, when the head is rotated slowly, it is normal to hear a tooth sound as the belt engages with the Main Pulley. This sound is normal and will disappear after a few flights and the necessary "break-in".

Head Set Assembly

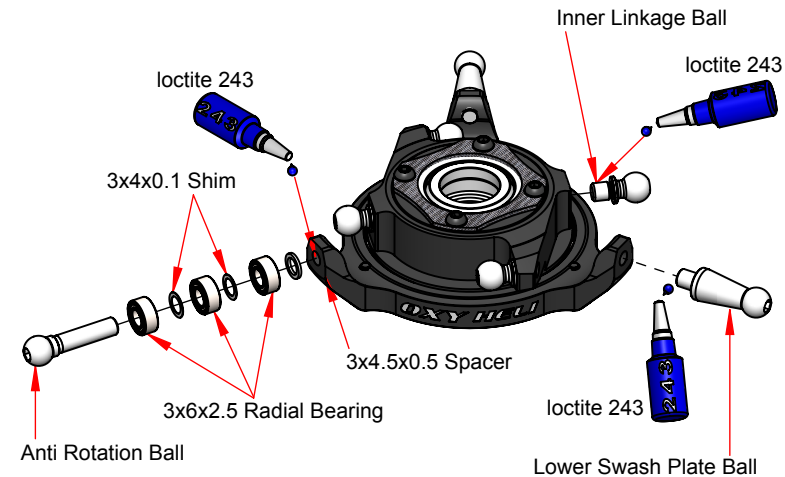


Swash Plate Assembly
(Box3/bag 24)

⚠ Important Note:
this part, for tuning reasons,
comes factory pre assembled,
it's ready to use.

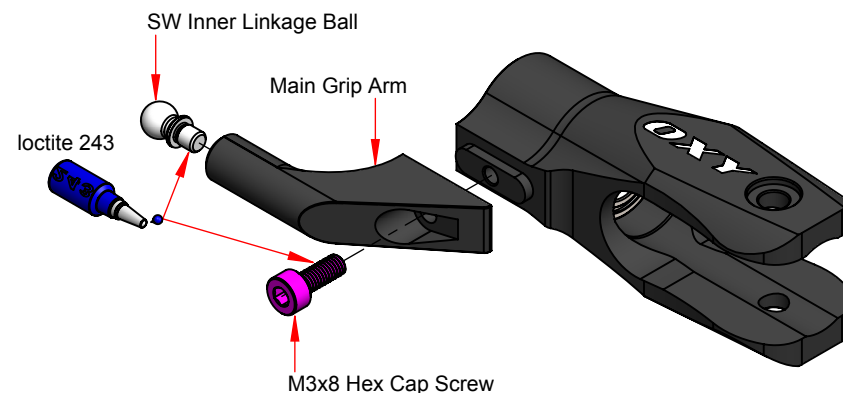
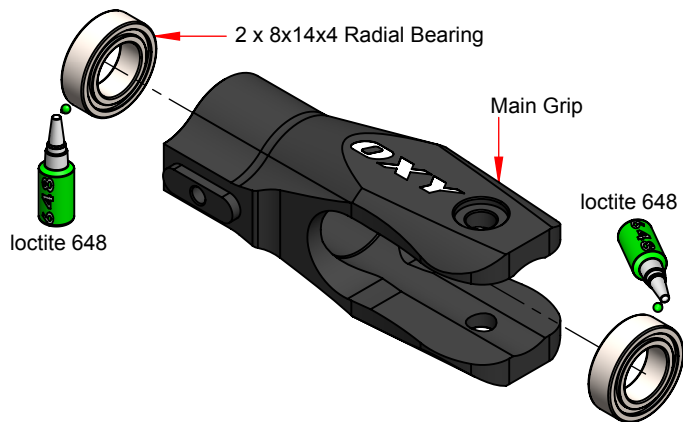


⚠ Important Note:
this part, for tuning reasons,
comes factory pre assembled,
it's ready to use.



Main Rotor Assembly
(Box3/bag 25)

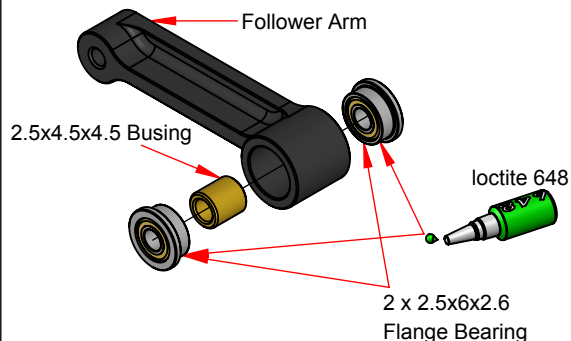
⚠ Important Note:
this part, for tuning reasons,
comes factory pre assembled,
it's ready to use.



Anti Rotation Arm Assembly
(Box3/bag 25)



Important Note:
this part, for tuning reasons,
comes factory pre assembled,
it's ready to use.



M2.5x18 Hex Cap Screw

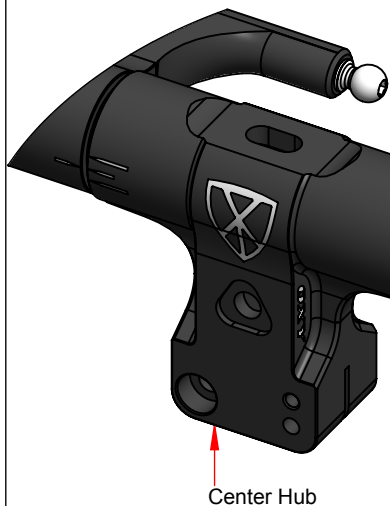
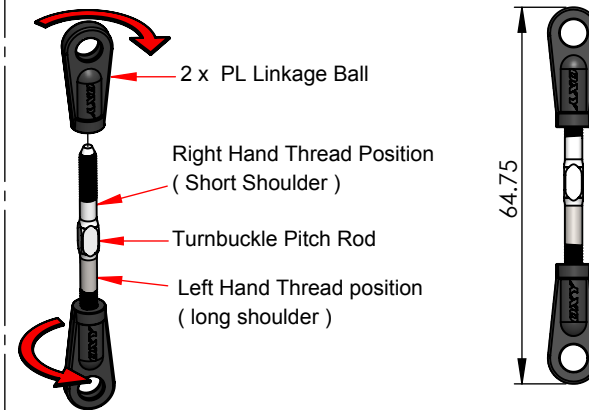
2.6x4x0.5 Washer



Important Note:
This part comes pre assembled WITHOUT
thread lock. Follow the instruction for final
assembly.

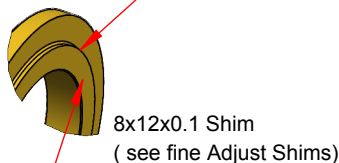
2.6x4x7 Bushing

loctite 243
2 x 2.5x6x2.6 Flange Bearing

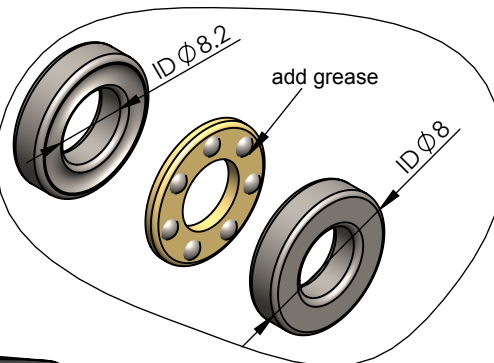


Warning icon Hard O-ring
always in first

Step face to bearing



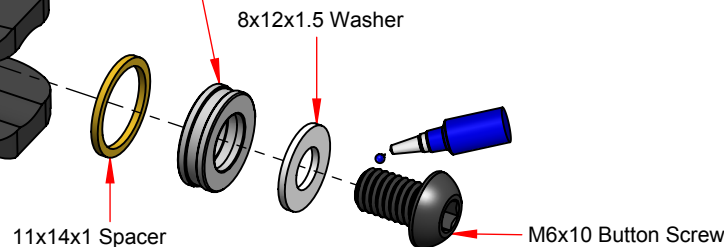
Fine Adjust Shims:
In order to give fine adjustment options,
the extra Hardware Bag contains extra
Shims 8x12x0.1. Start assembly
with one (each side) pre installed shim.
If the Main Grips have
sideway play, add shims as required.
Each Grips must have the same number
of shims. If you add one shim on the left
side, you need to also add one shim on
the right side

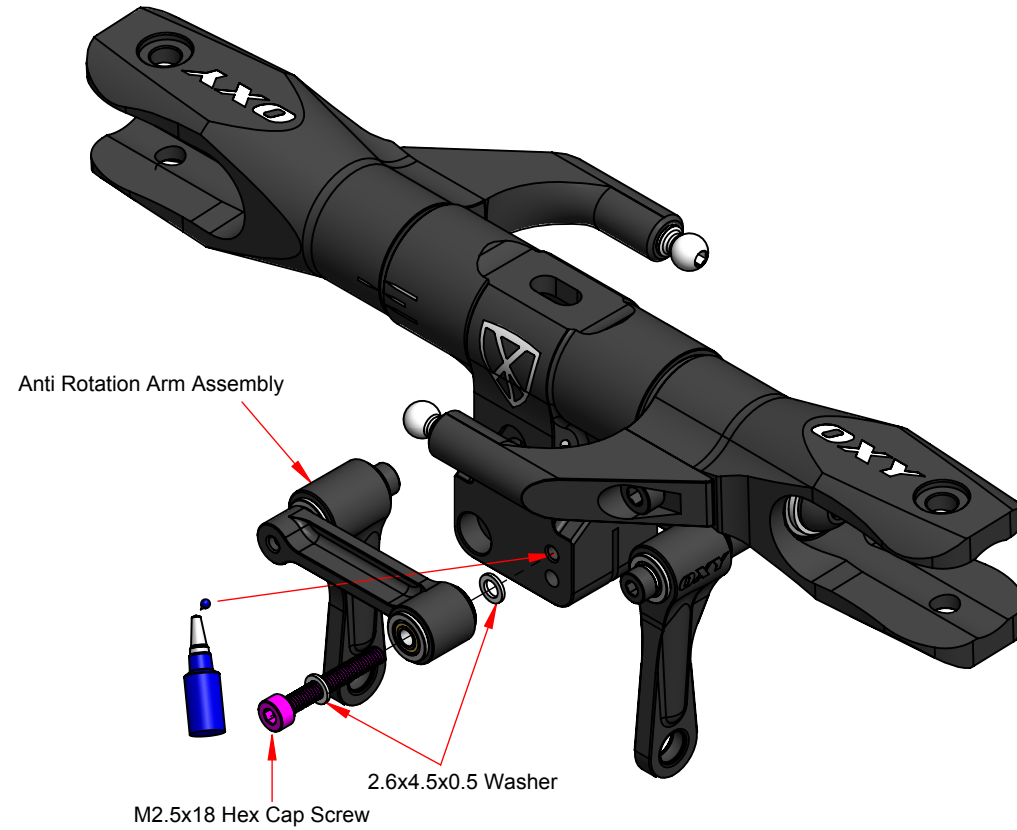


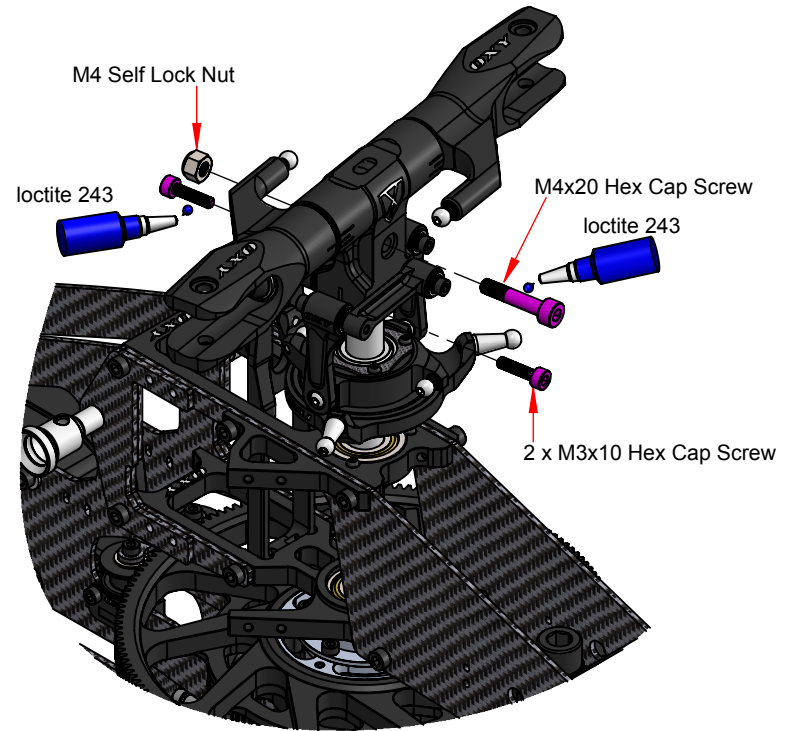
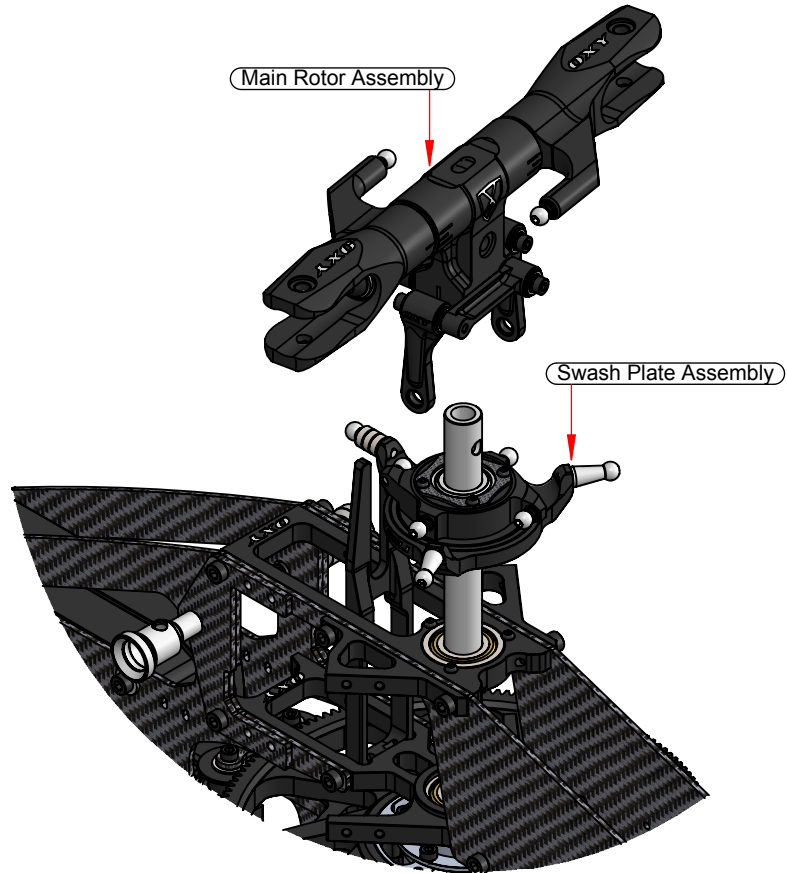
Important note:
This part comes pre assembled
WITHOUT thread lock. It MUST
be re-assembled with thread
lock as shown.



O-ring important note:
Main Rotor Head come with HSS
Dampening, please choose
Dampening set up depend on your
flight style (see page 7).
Hard O-ring are inside extra bag.





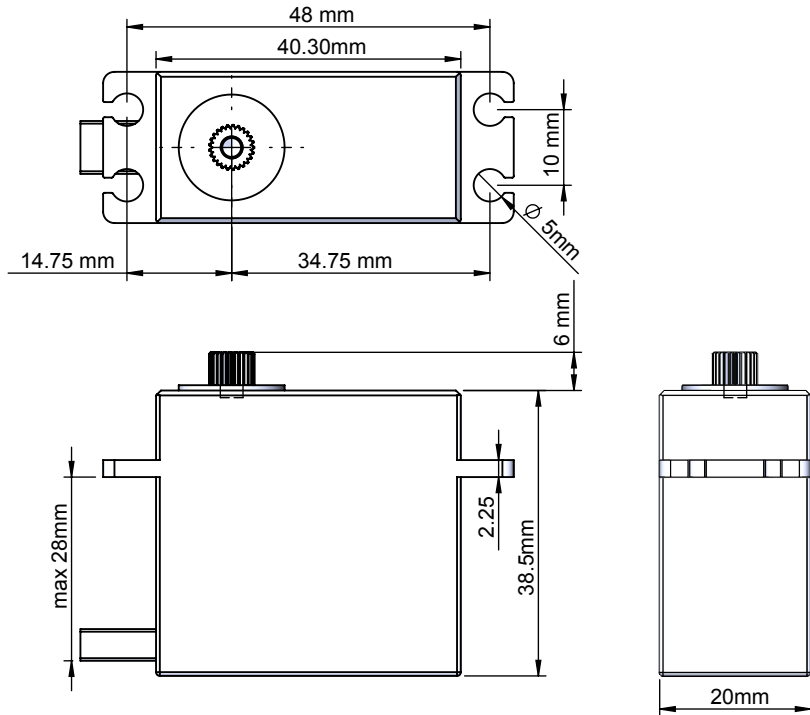
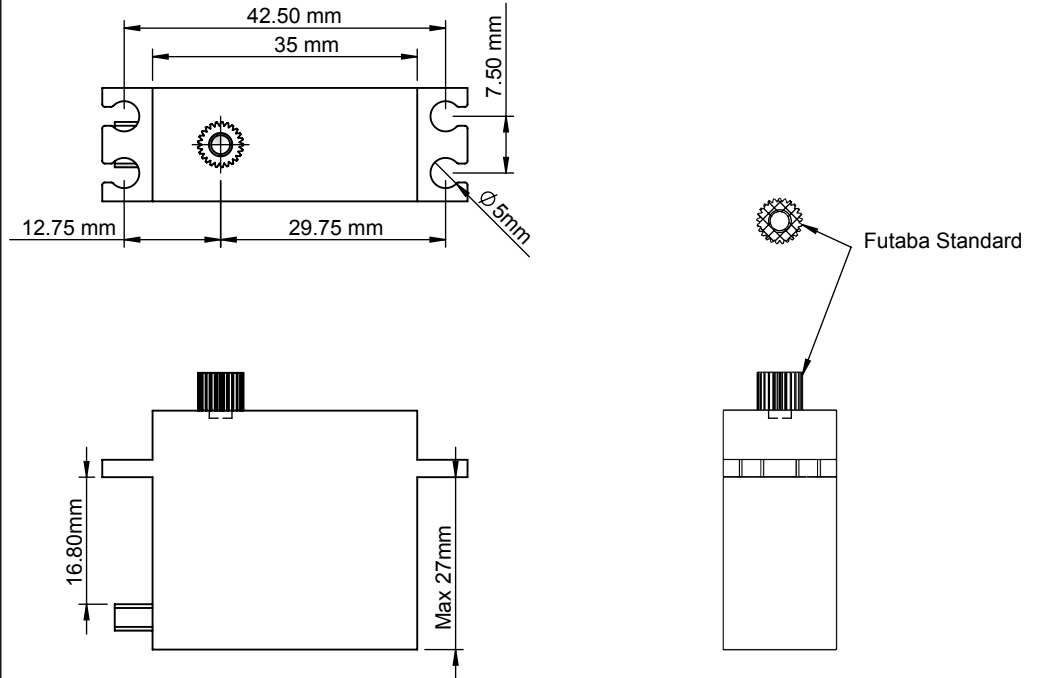



SERVO SIZE IMPORTANT NOTE:

OXY 5 from box come with Standard Size Cyclic

Servo Support and on Tail can accept Standard or Mini Size Servos.

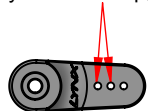
Optional Mini Size Cyclic Servo Support is available with p/n: OSP-1347

Standard Servo

Mini Servo


- You should now do some initial setup of your FBL unit and servos.
- We recommend you select a new model in your transmitter, and reset your FBL unit and start with a clean setup in it as well.
- After binding your transmitter to the receiver system used with the FBL unit, work your way through the FBL setup instructions to the point you plug in your servos.
- Now set your collective stick in the middle position, and position the servo arms as close to the correct positions you can on each servo see the following pages for arm orientations on the various servos.
- Next confirm the servos work in the correct direction, then return the collective stick to the center position.
- Now use your FBL unit to trim the servos so the arms are exactly horizontal (see pictures below).
- This procedure varies between units. Carefully label the position of the servos, then proceed with the installation of the servos as shown.

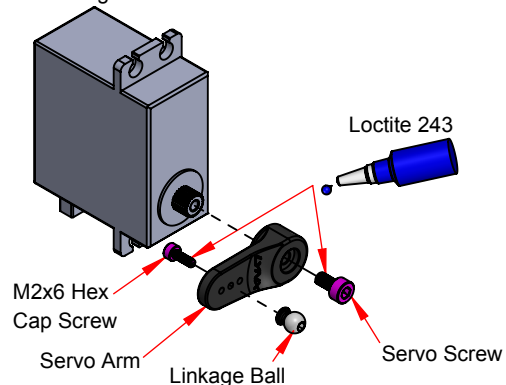
Linkage Ball Position

depend on your Flybarless setup, please see note

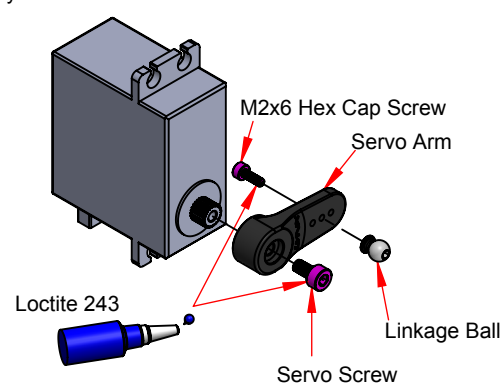


⚠ Note:
In our testing 17.5mm default servo ball mount works best for most FBL and servo combinations. However depending on your servo resolution and FBL for example NEO you may yield better results with 14.5mm position.
⚠ OXY5 Servo Arm come with Futaba Knurel

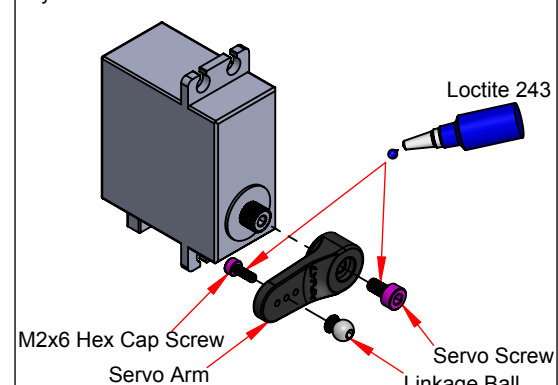
Cyclic Front Right Servo



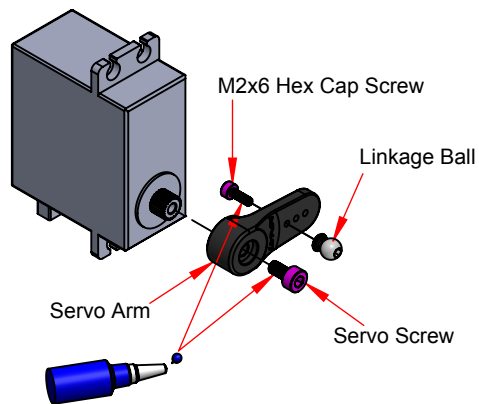
Cyclic Front Left Servo



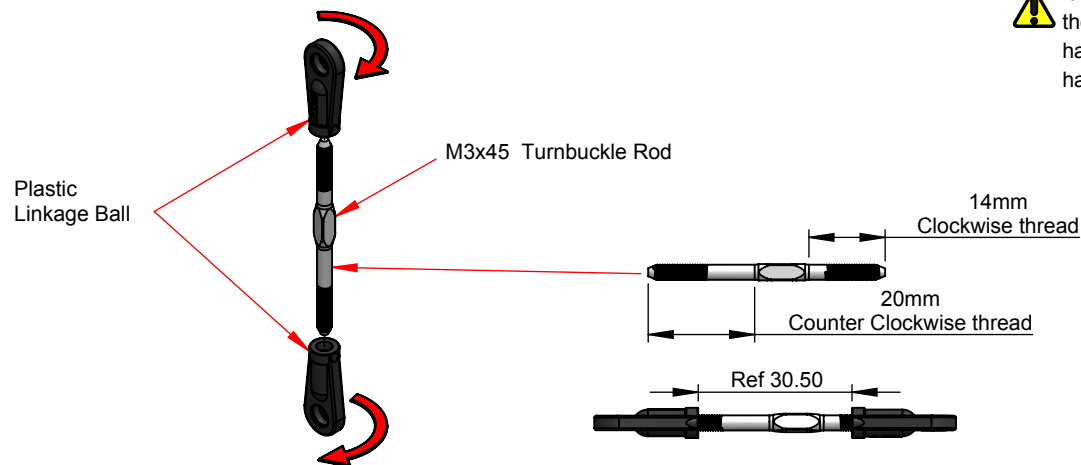
Cyclic Rear Servo



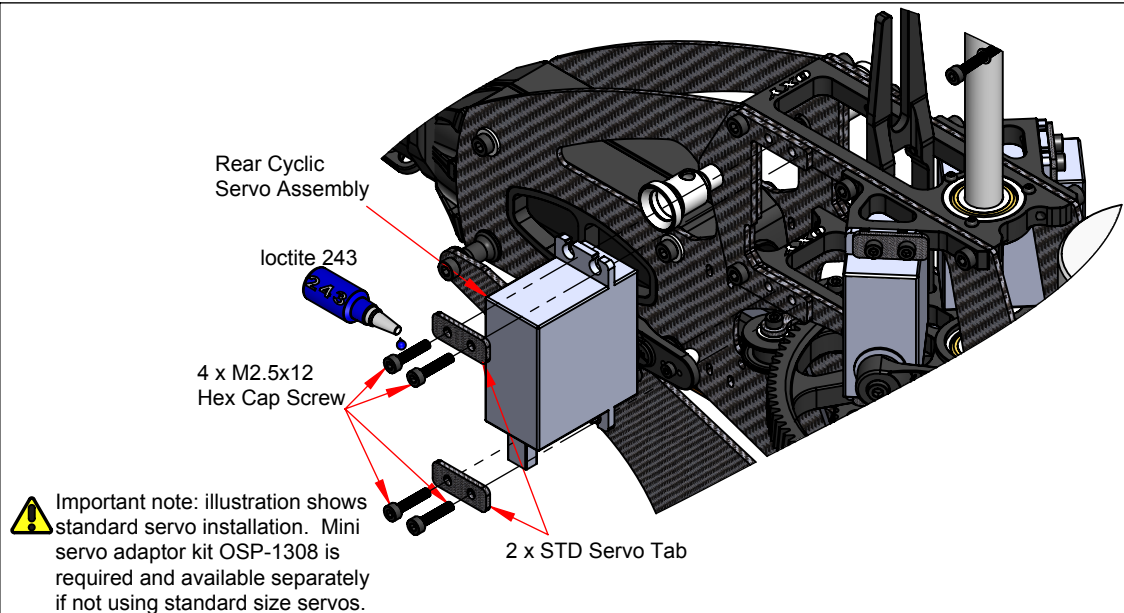
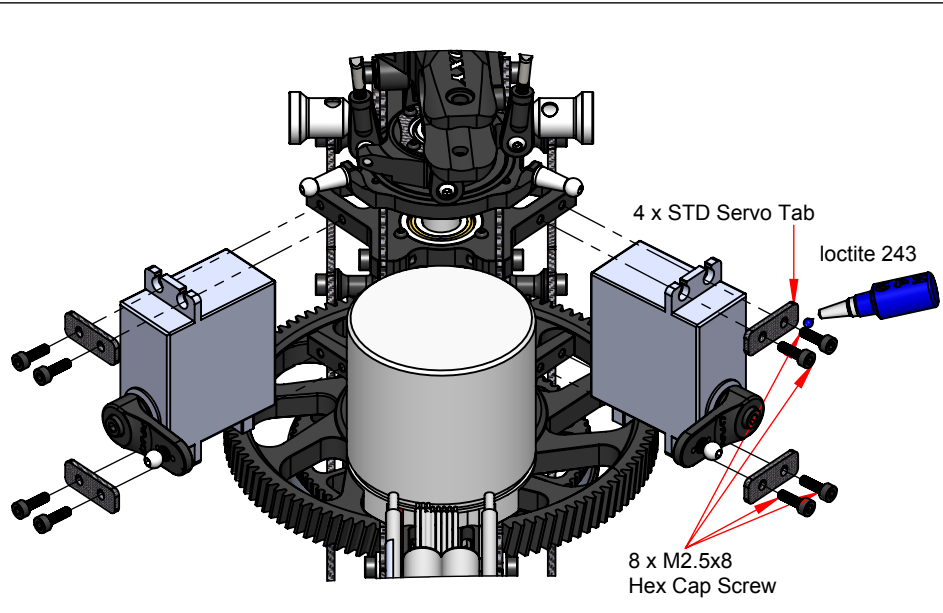
Tail Servo



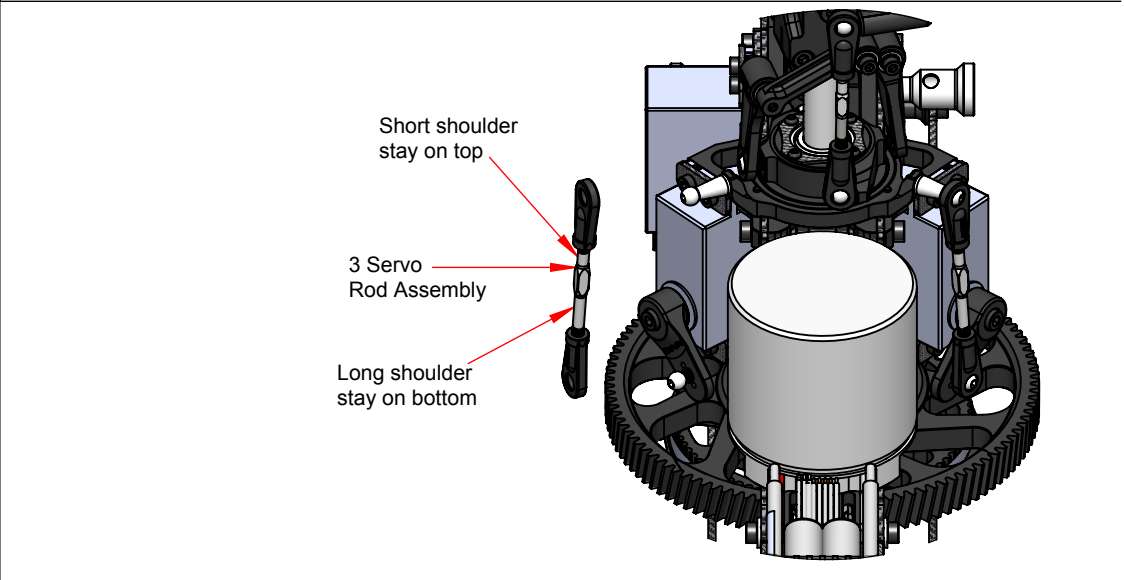
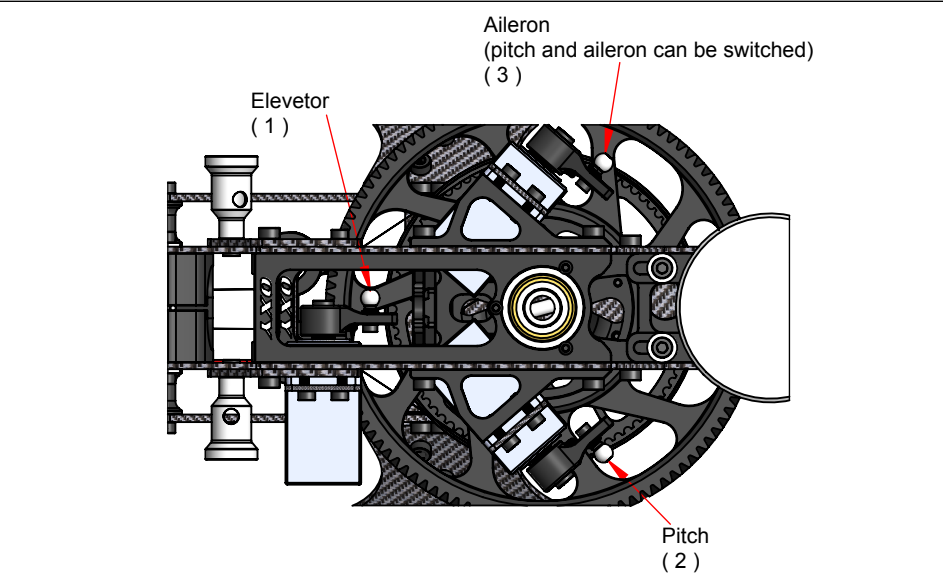
Servo Rod Assembly (3pcs)

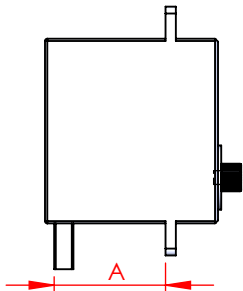


⚠ It is really important the servo rods screw onto the linkages the same amount. The Metal Rod have one side clockwise thread and one side have counter clockwise thread

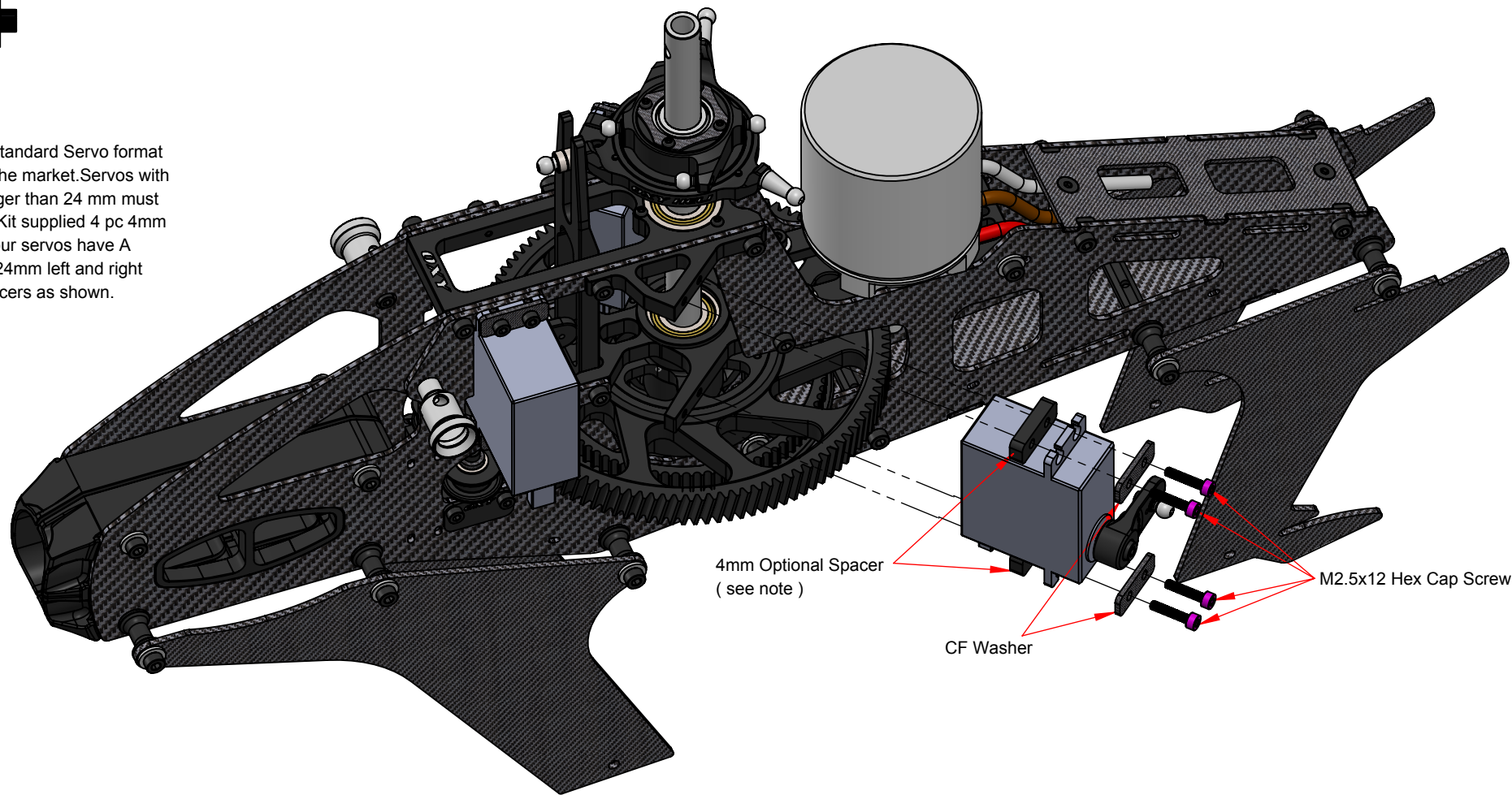


⚠ Important note: illustration shows standard servo installation. Mini servo adaptor kit OSP-1308 is required and available separately if not using standard size servos.





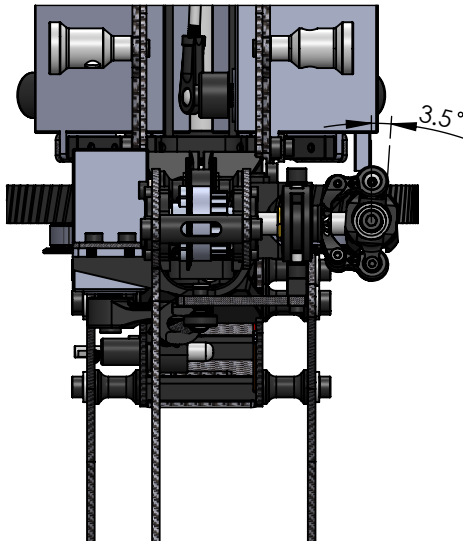
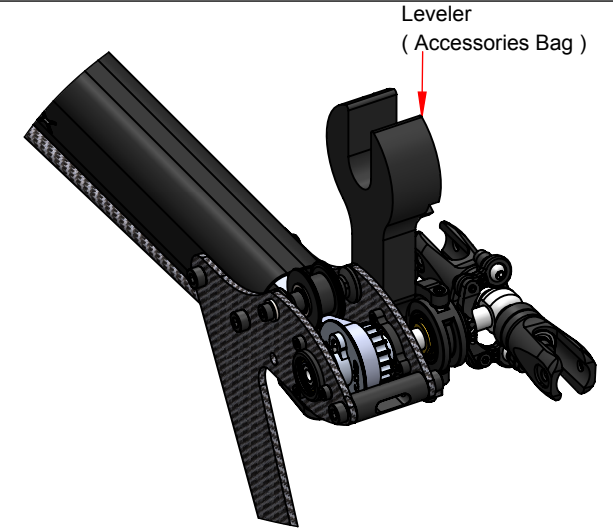
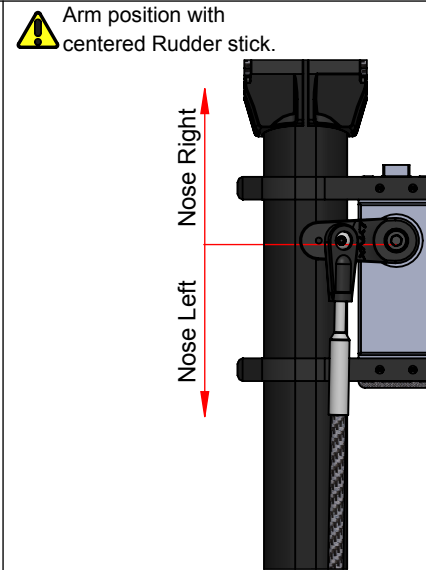
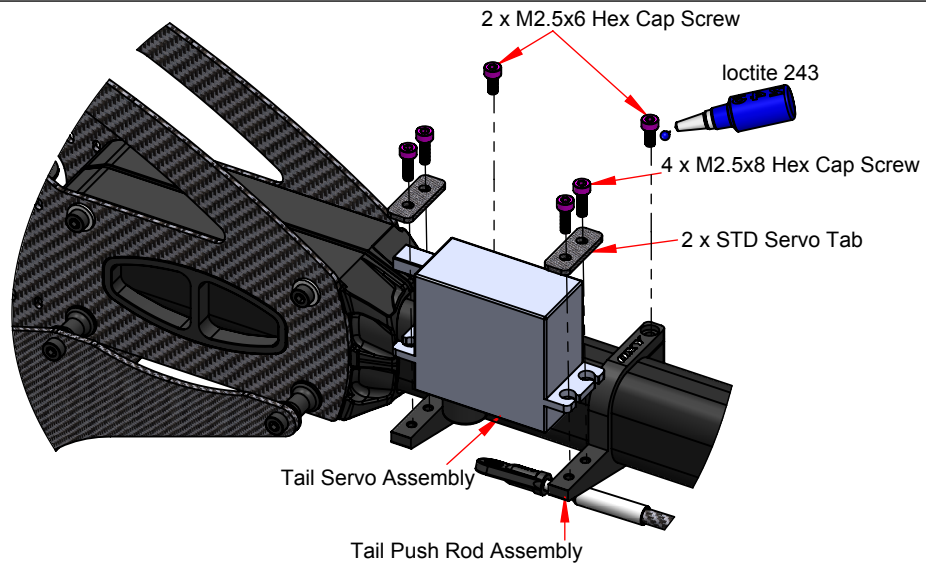
 Note: Different Standard Servo format are available in the market. Servos with dimension A longer than 24 mm must assembled with Kit supplied 4 pc 4mm pacers. Only if your servos have A dimension over 24mm left and right servos need spacers as shown.



4mm Optional Spacer
(see note)

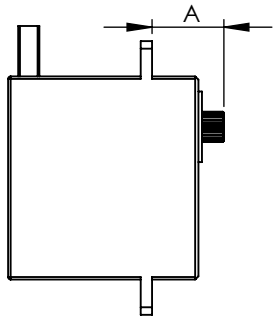
CF Washer


M2.5x12 Hex Cap Screw

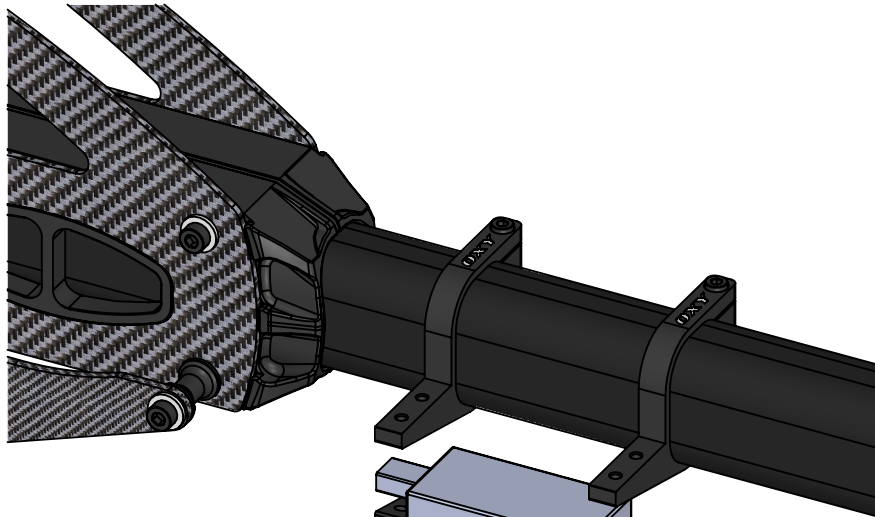


⚠ With Rudder Stick centered and the Tail Servo Arm in the center position, adjust the Tail Push Rod length until the Tail Bell Crank and Tail Case Plate are parallel as shown.

⚠ The Oxy 5 Tail System has approximately 3.5 of counter torque with the Tail Bell Crank set per instructions.



 Note: if your tail Servo have Dimension A <math>< 11.5</math>, please install Tail Servo as image below



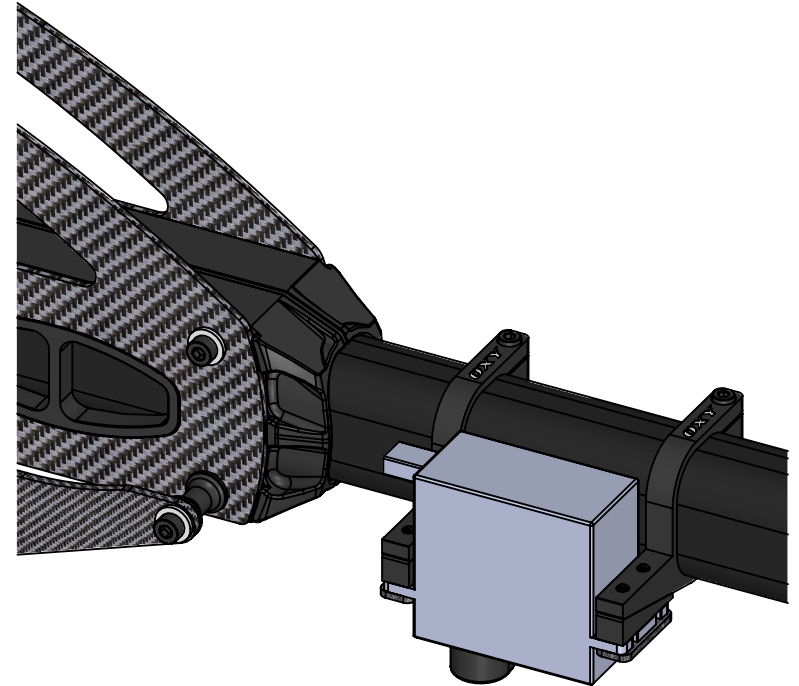
loctite 648

loctite 648

M2.5x14 Hex Cap Screw (4pcs)

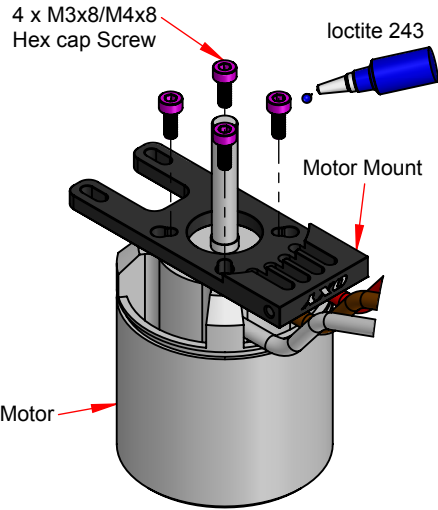
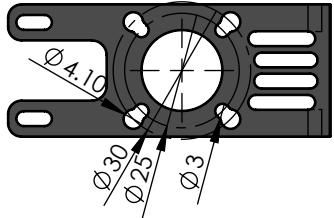
angular Spacer

CF Spacer

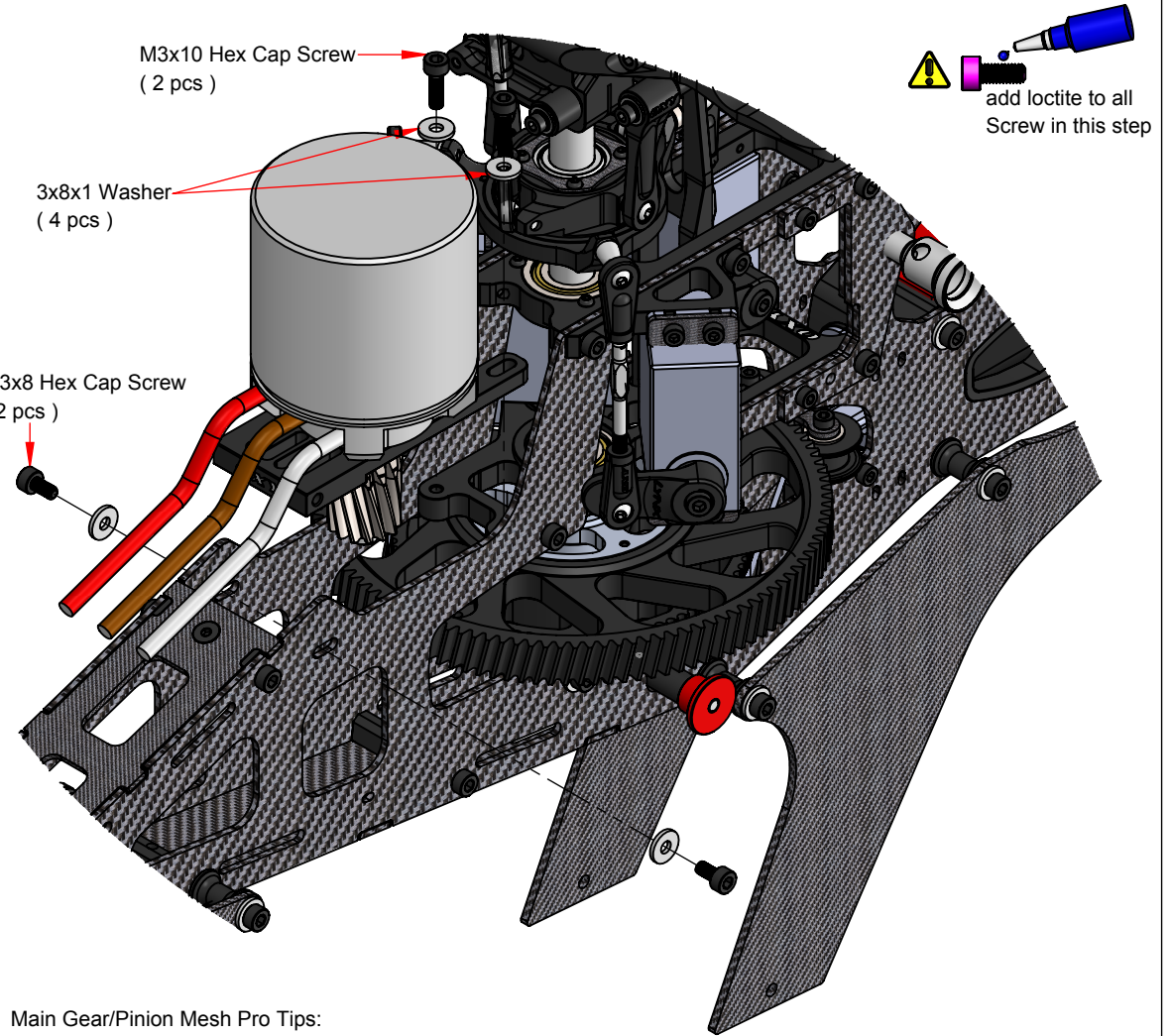
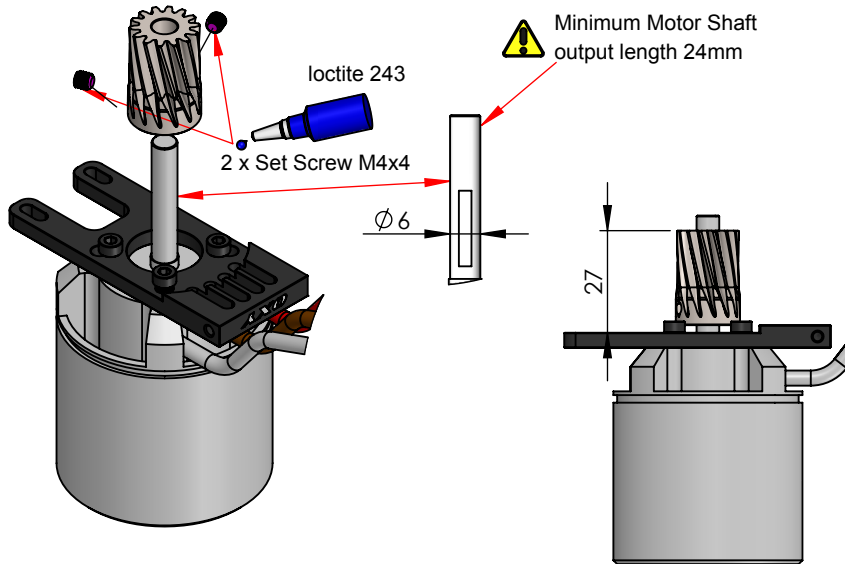


Motor Assembly
(Box3/bag 14)

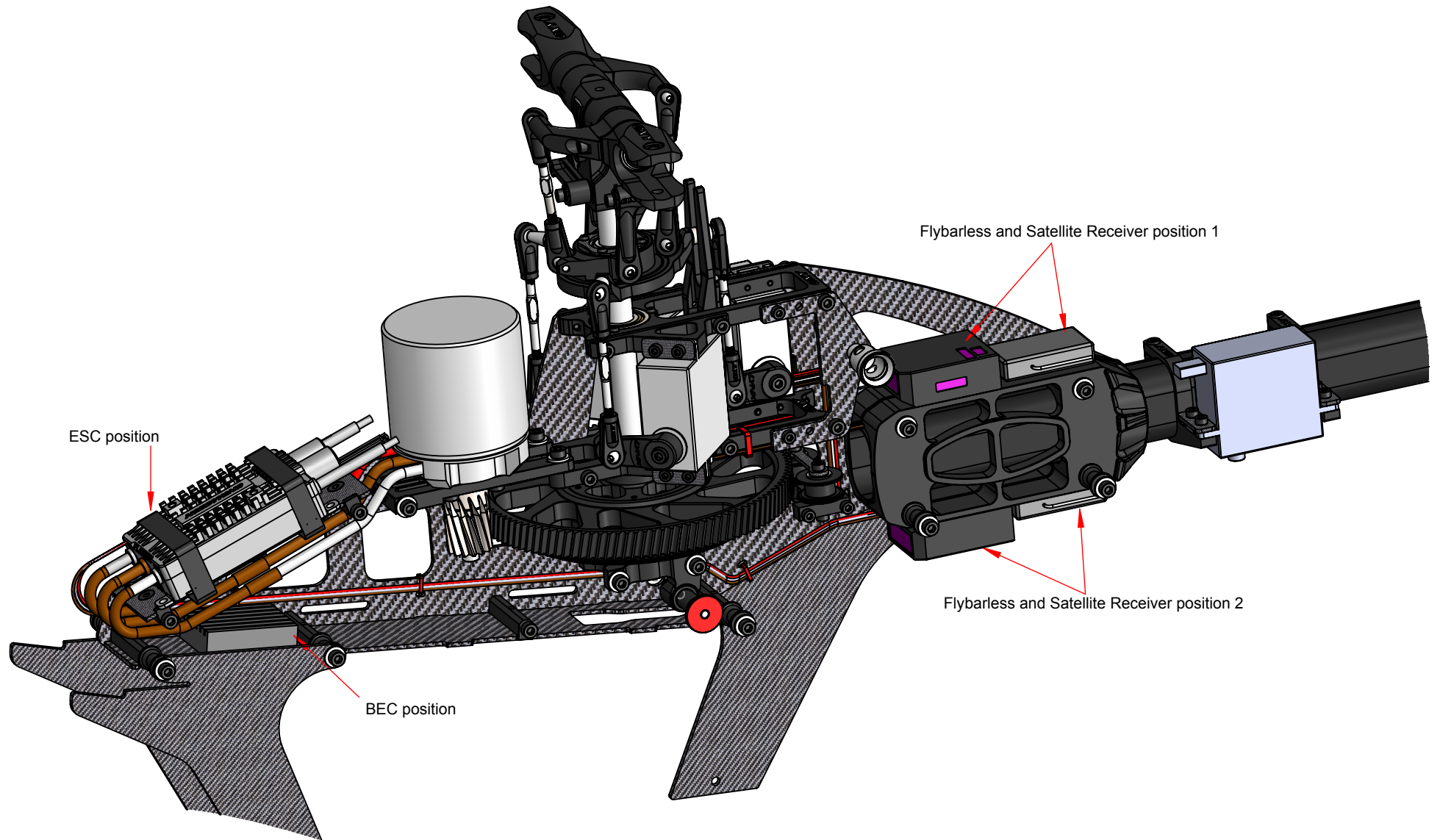
Motor Mount holes support



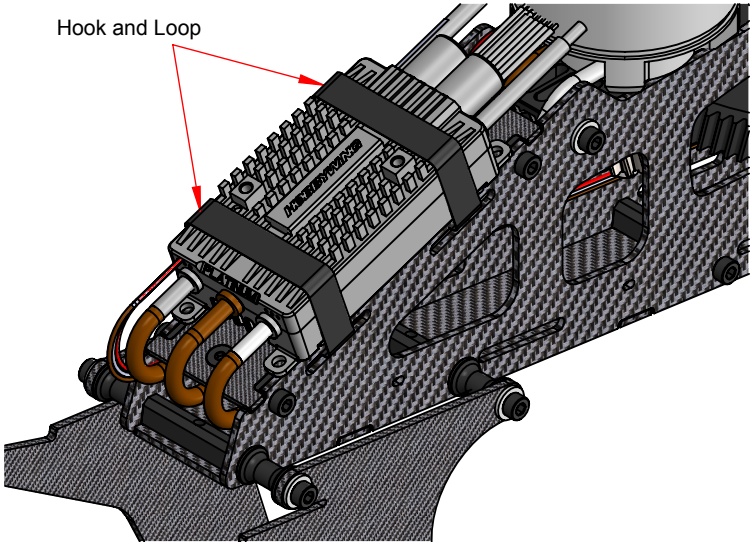
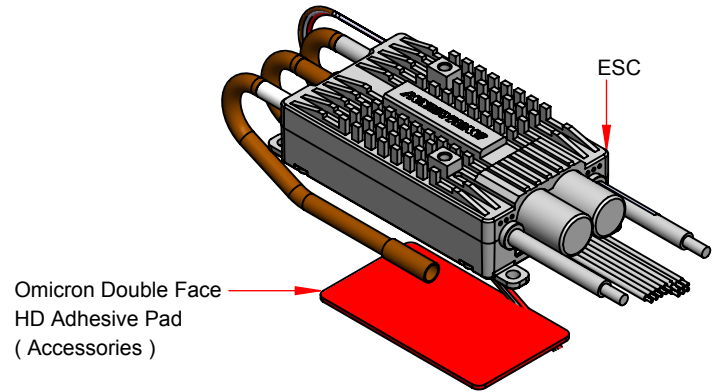
Pinion
(12T - 6mm Shaft Included)



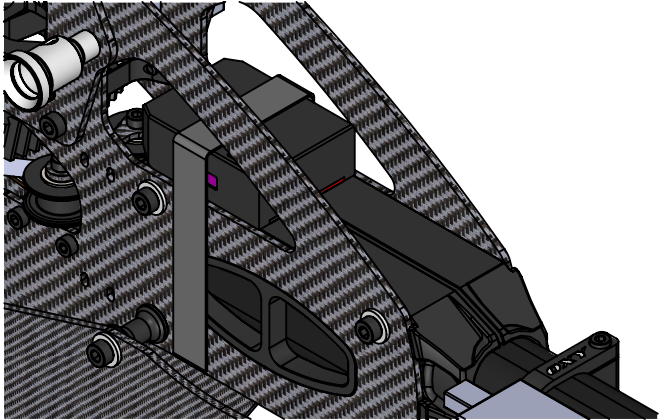
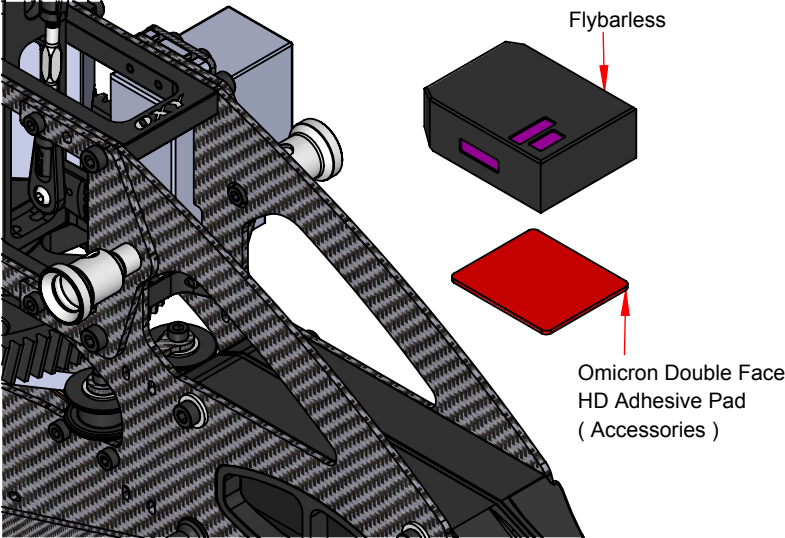
⚠ Main Gear/Pinion Mesh Pro Tips:
 push motor / pinion against main gear, then rotate main gear by hand, find if there is any high spot, if there is, then set your gear mesh tight there. By tight, push lightly by hand. Then rotate gear, slightly by hand. Then lock down the motor position. Then check by hand, high spot should just contact, rest you should feel just a hair click of backlash.



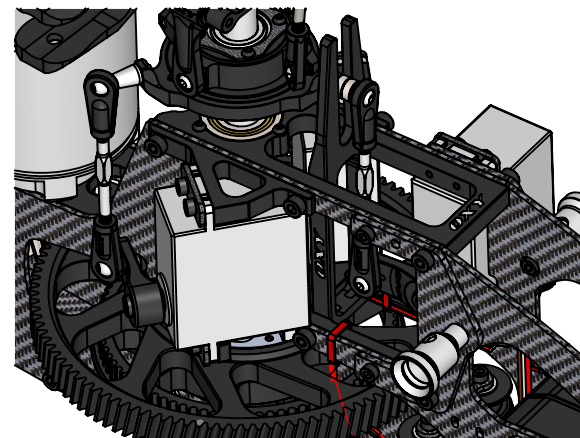
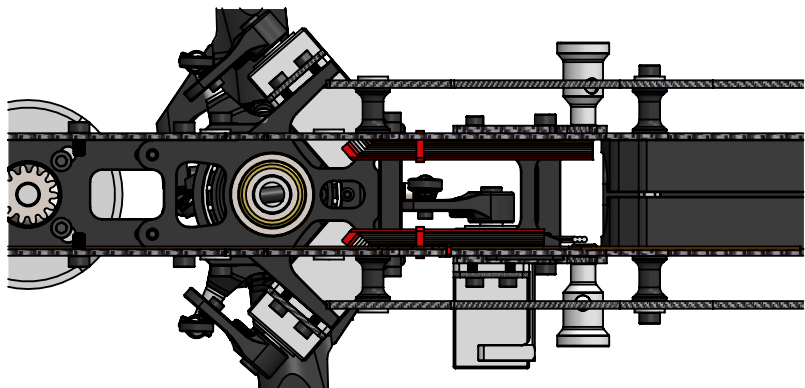
ESC Installation



Flybarless Installation

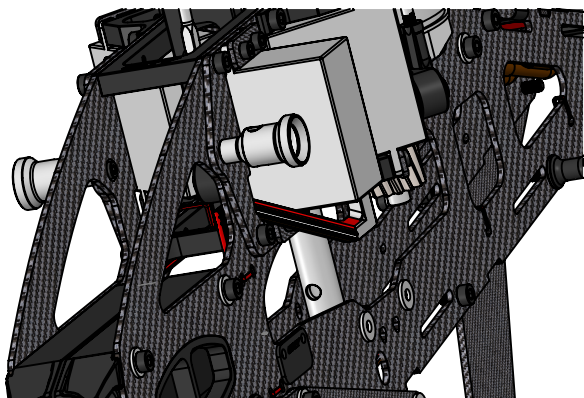


Front Cyclic Servo Wire Suggestion

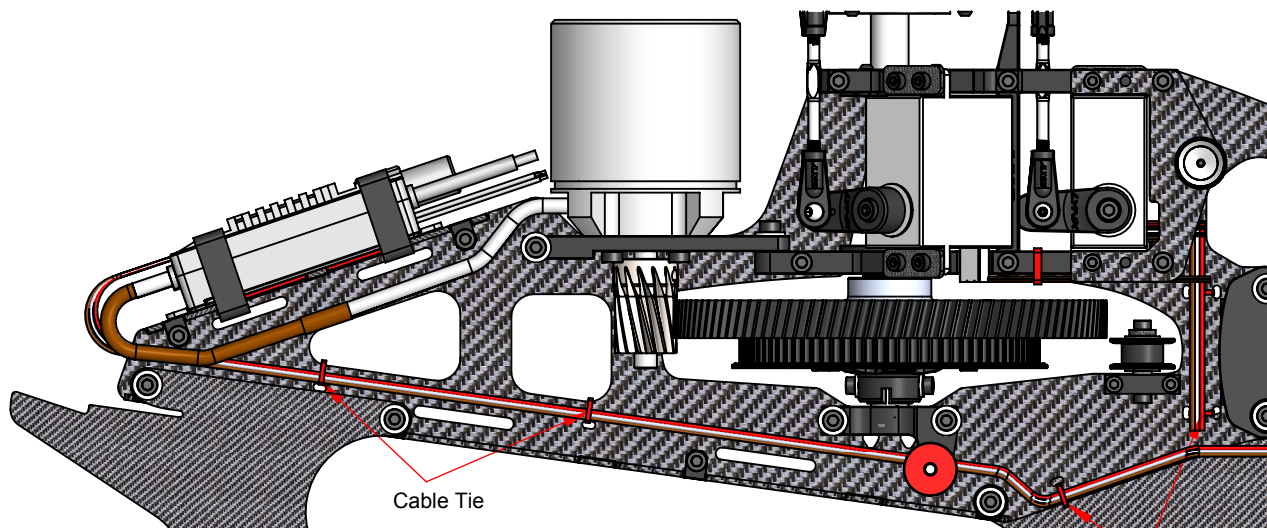


Cable Tie

Rear Cyclic Servo Wire Suggestion



ESC Wire Suggestion



Cable Tie

Cable Tie

Before Flight:

Now complete the setup of your FBL system. In the Accessories Bag you will find an Oxy 5 Swash Plate Leveler.

This Tool is designed to fit under the Swash Plate without disassembly any parts. This simple tool will both level the swash and give the Zero Pitch Position.

Starting gyro gain: The Oxy 5 was designed around famous FBL Systems (IKON / Brain / mini V-Bar), and we suggest you start with the following standard set up and adjust after test flying.

Cyclic Set Up:

Use suggested settings for 550 Helicopters and adjust after test flights.

See our table on page 7 for RPM and Pitch Settings. Cyclic Max pitch should be +/- 12 deg.

Tail Set Up:

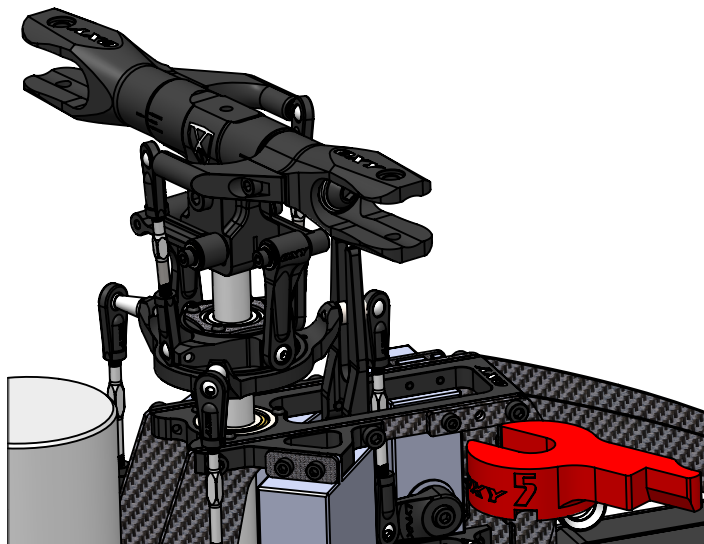
Use the suggested settings for 550 Helicopters BUT start with a LOWER Tail Gain (Increase after test per need)

IKON / Brain = 20%

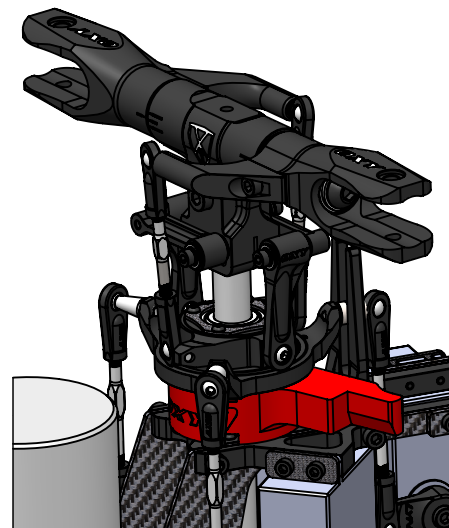
Mini V-Bar = 250 Heli suggested gain.



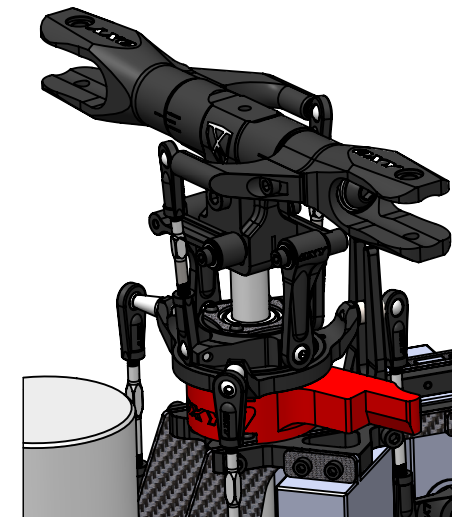
Lift up swash plate as shown to have space for inserting Leveler.



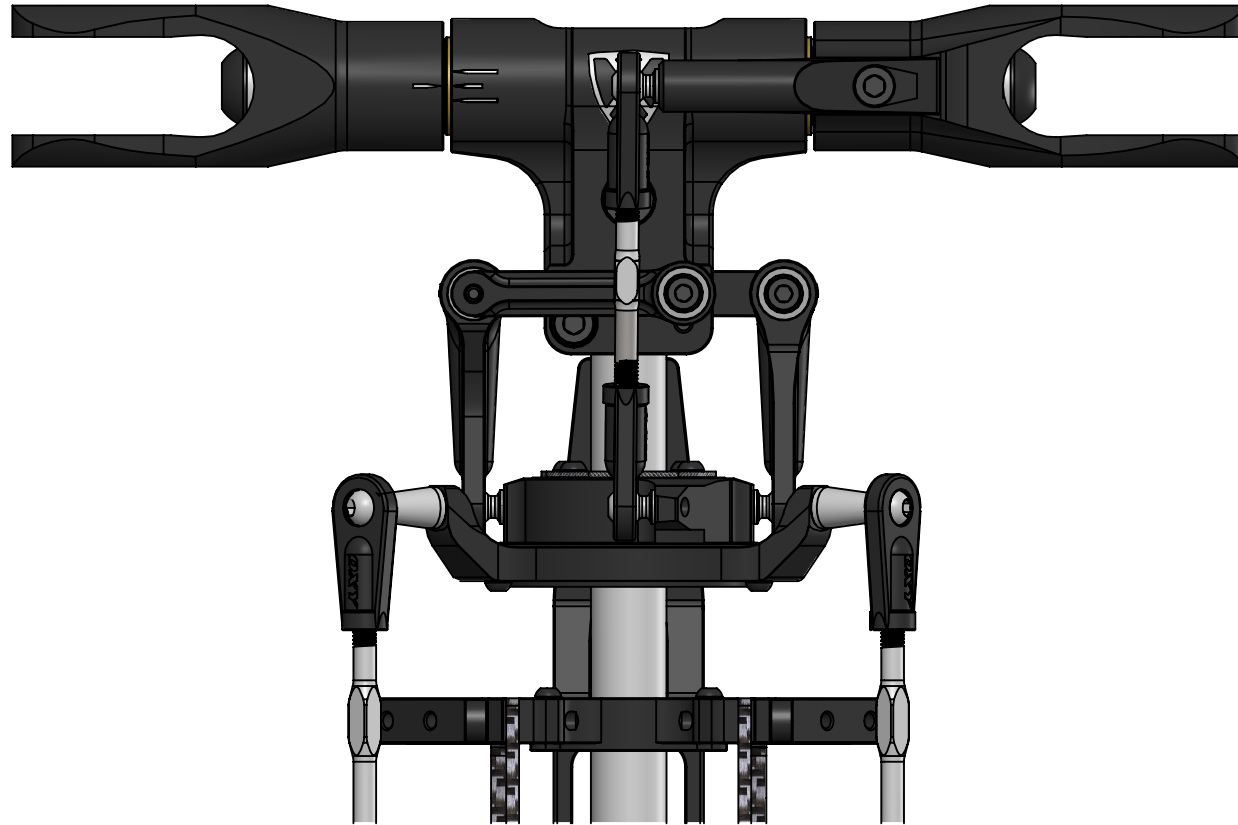
Rotate Leveler as shown

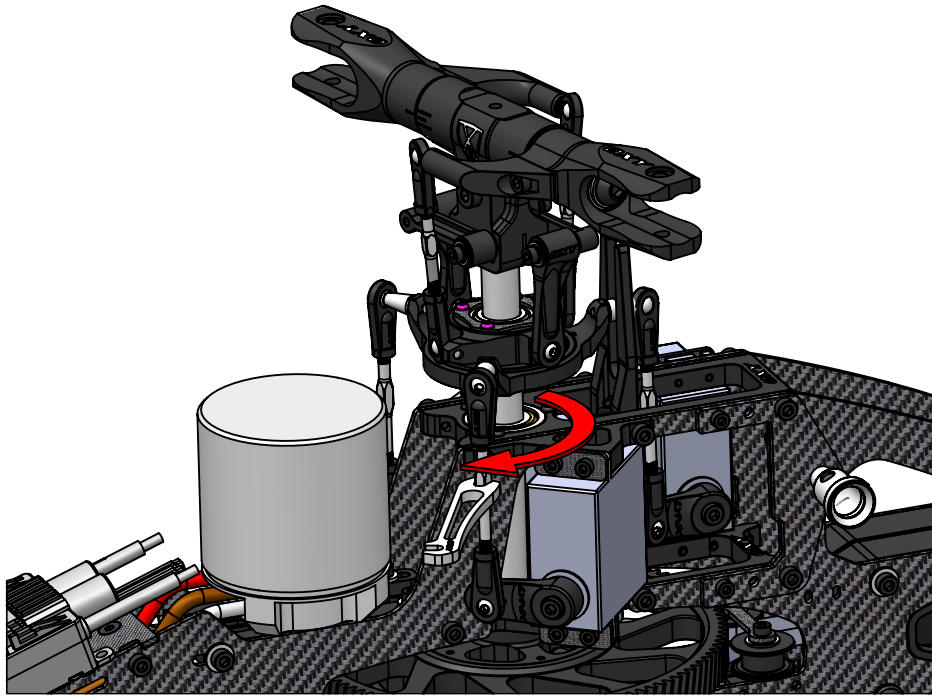


Lower Swash Plate down until Swash Plate touch Leveler as shown.

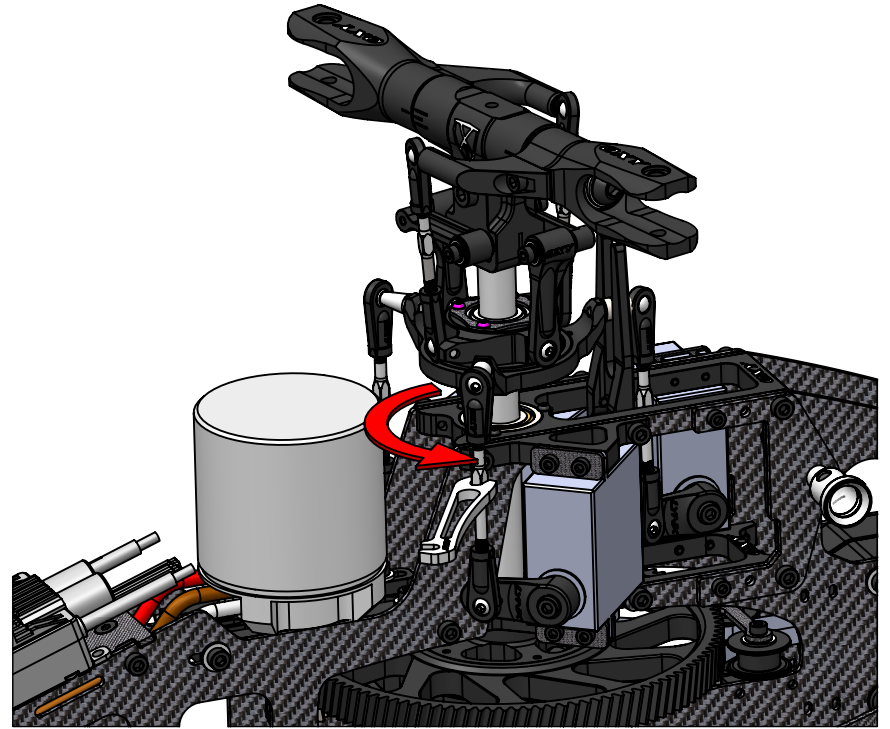


approximately angle +/- 12 degree






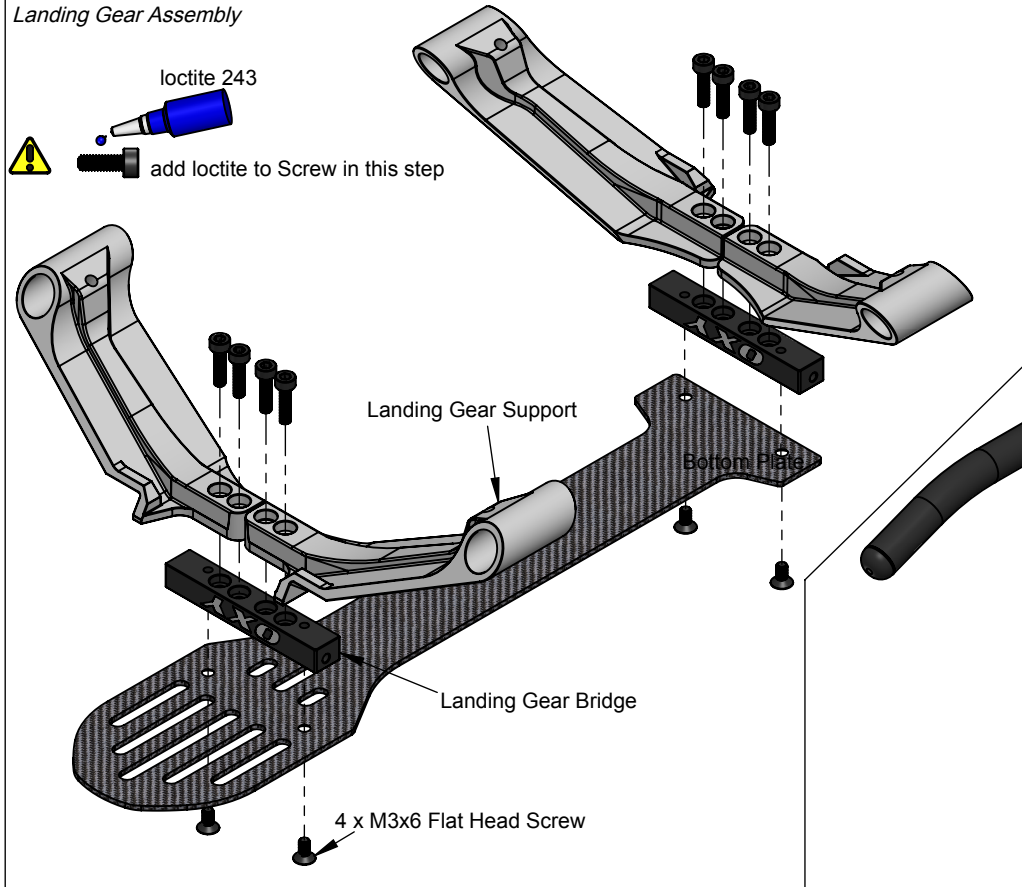
turn the key clockwise to adjust the Servo Rod and Pitch Rod longer



turn the key counter clockwise to adjust the Servo Rod and Pitch Rod Shorter

Landing Gear Assembly

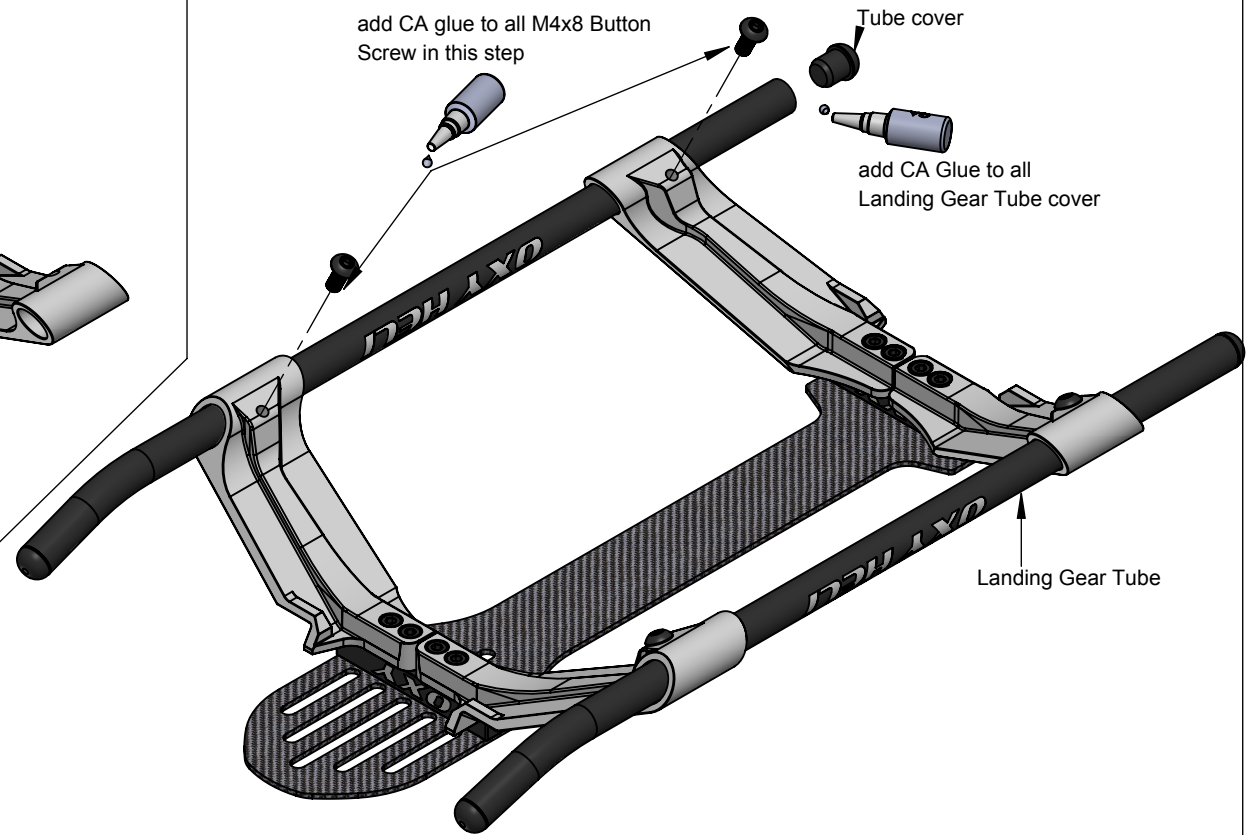
loctite 243
 add loctite to Screw in this step




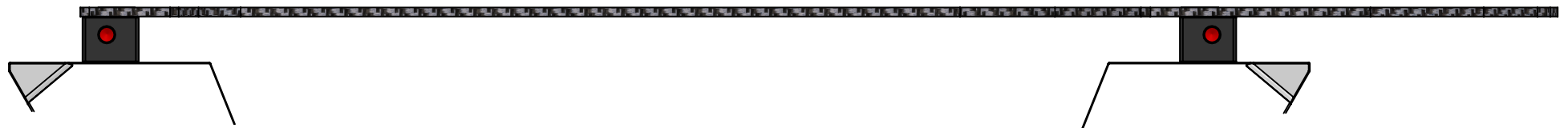
add CA glue to all M4x8 Button Screw in this step

Tube cover

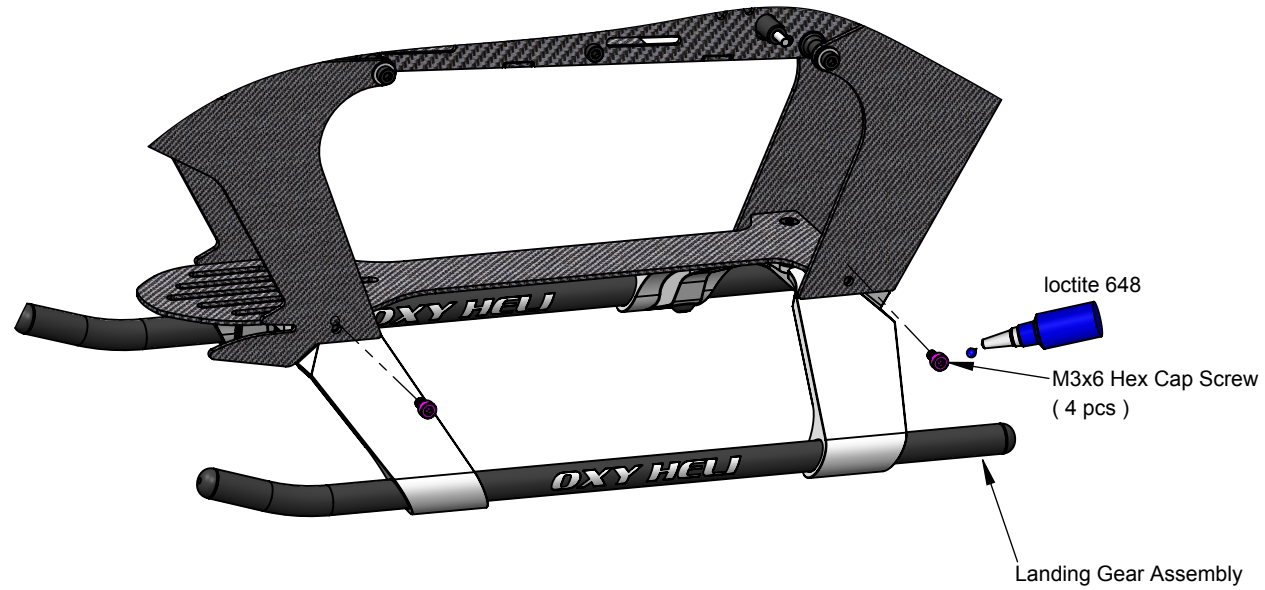
add CA Glue to all Landing Gear Tube cover



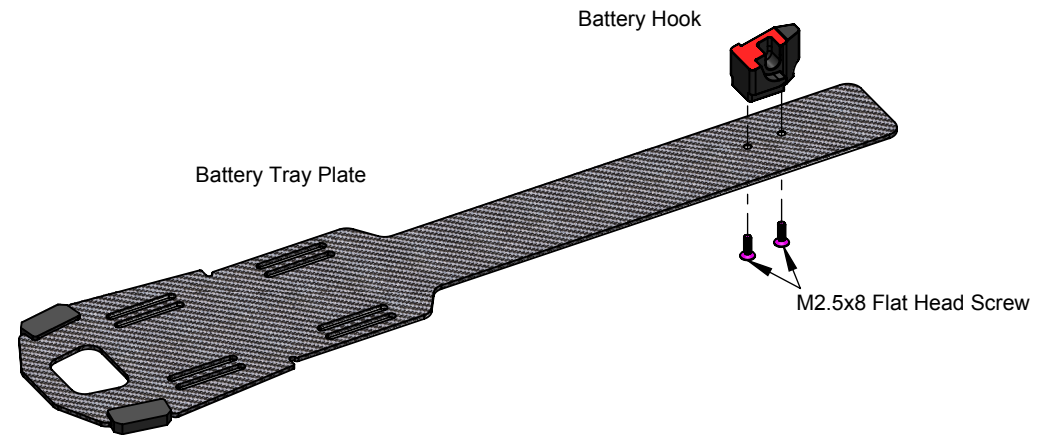
 The Hole Position to lock into Main Frame after Assembly



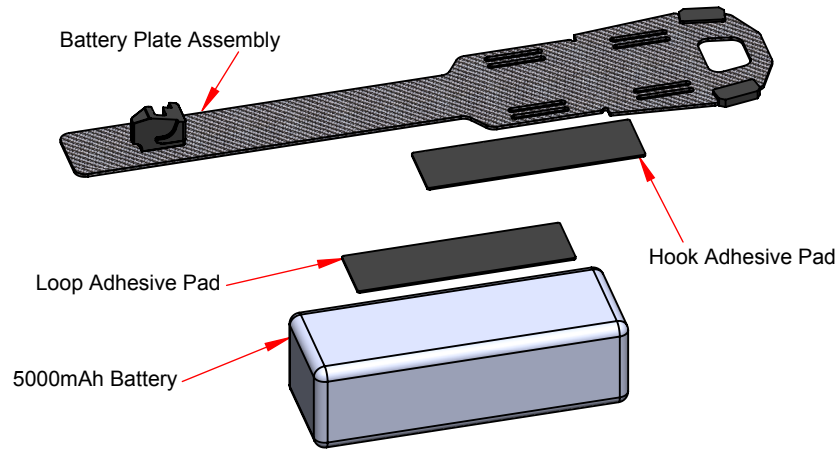
Landing Gear Installtion



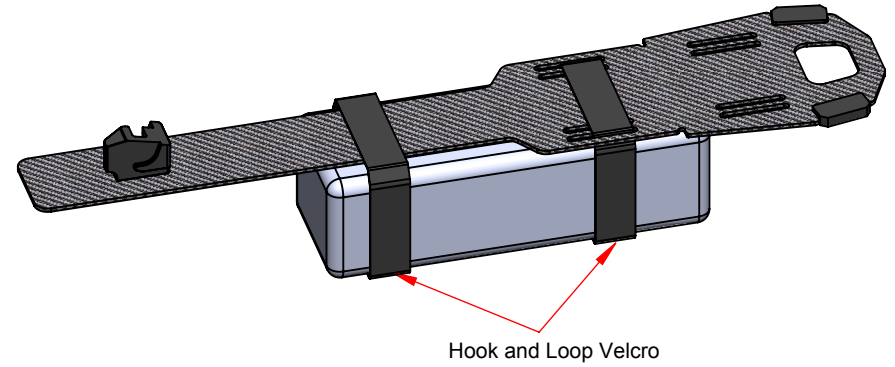
Battery Tray Plate Assembly



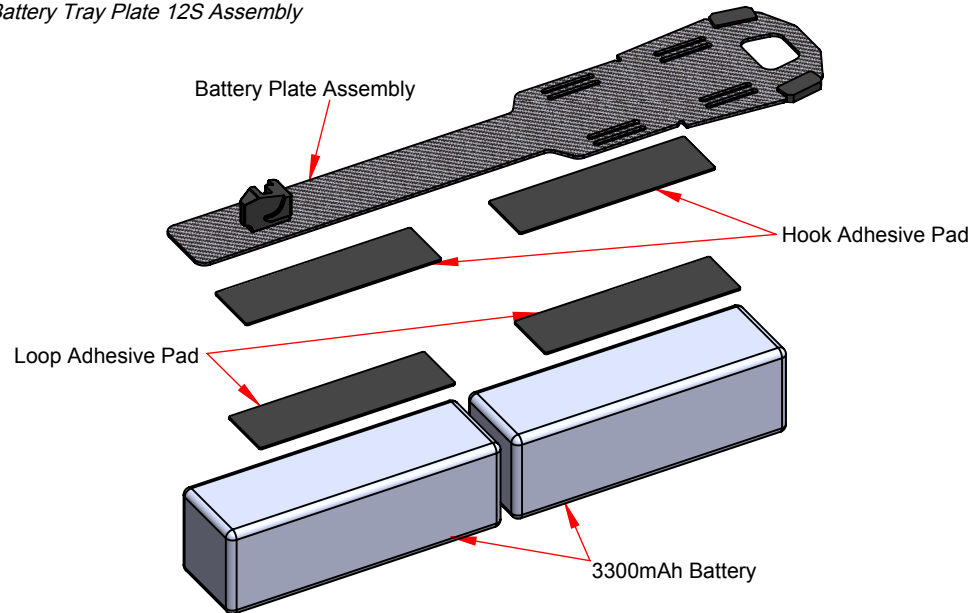
Battery Tray Plate 6S Assembly



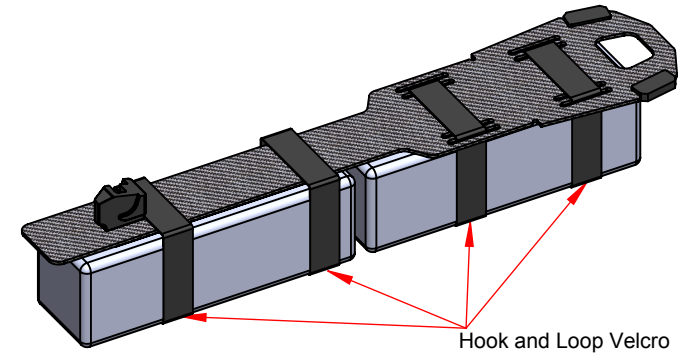
the Maximum Battery when use 6S is under dimension
(length x width x hight) : 145mmx50mmx56mm

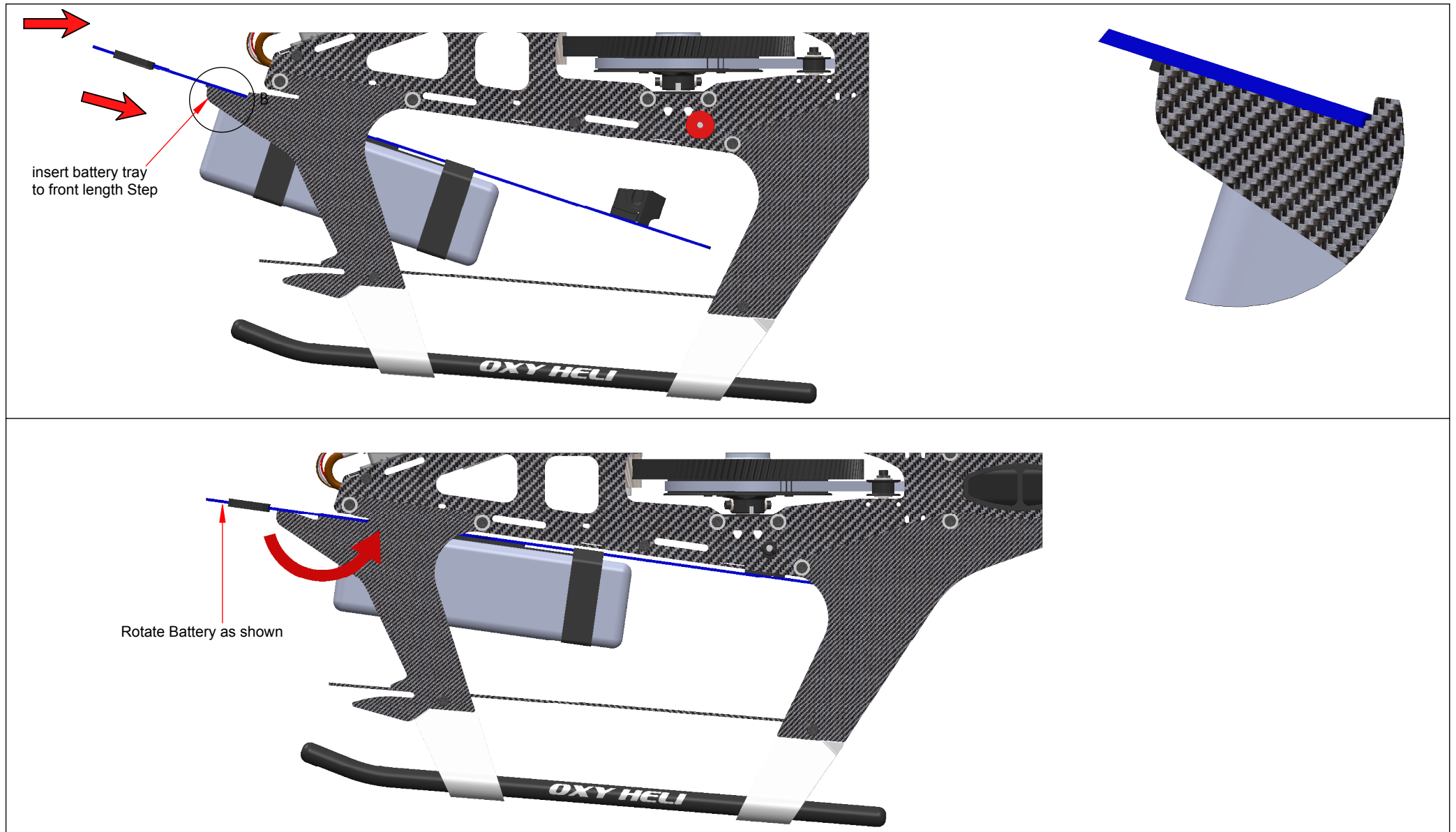


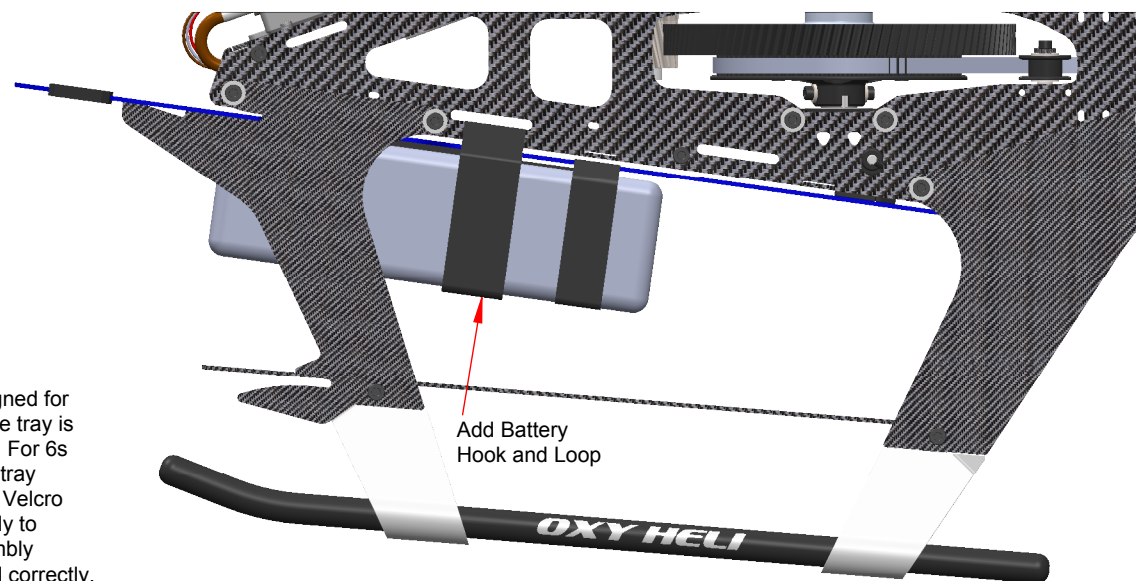
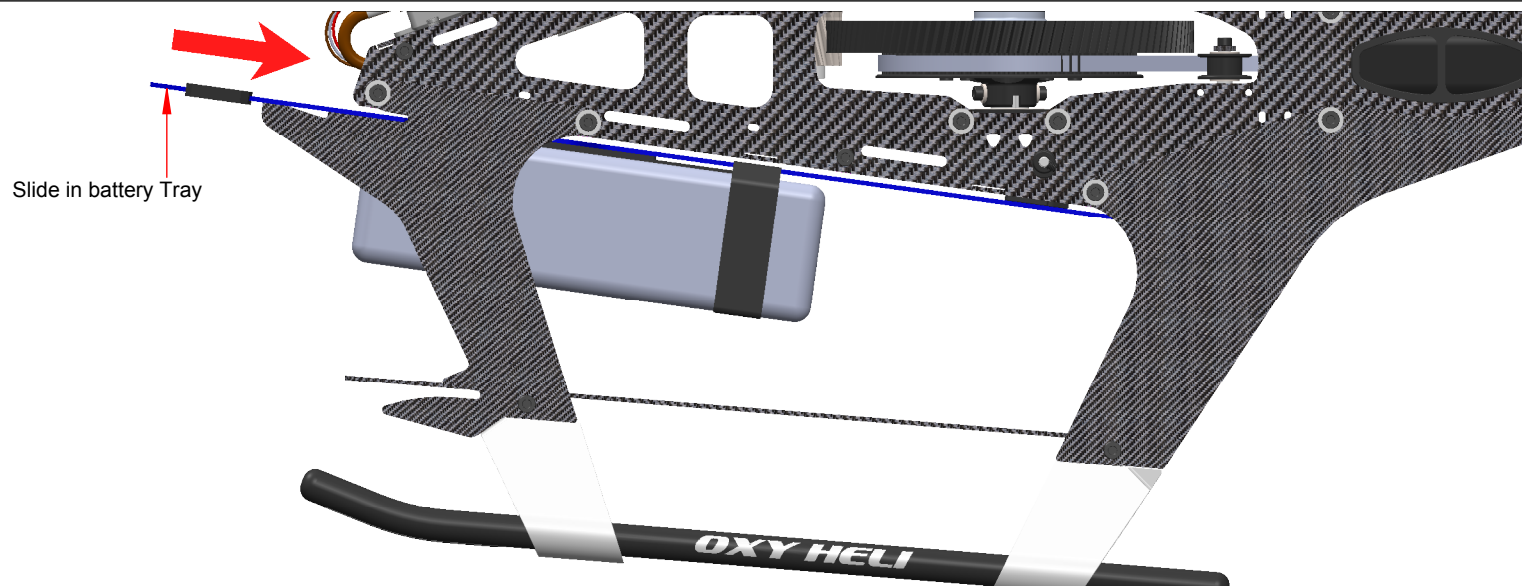
Battery Tray Plate 12S Assembly




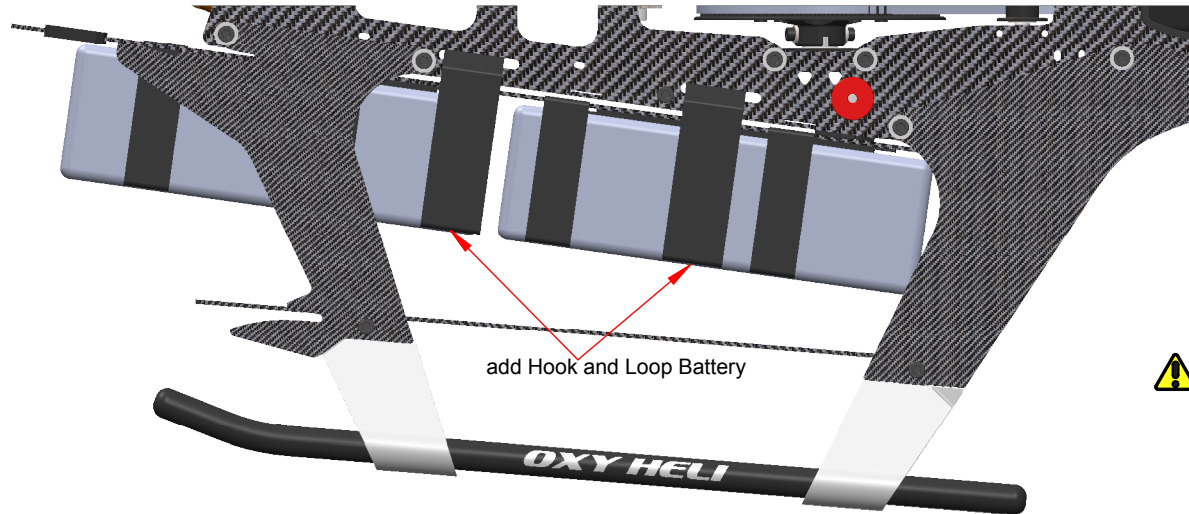
the Maximum Battery when use 12S is under dimension
(length x width x hight) : 135mmx50mmx44mm



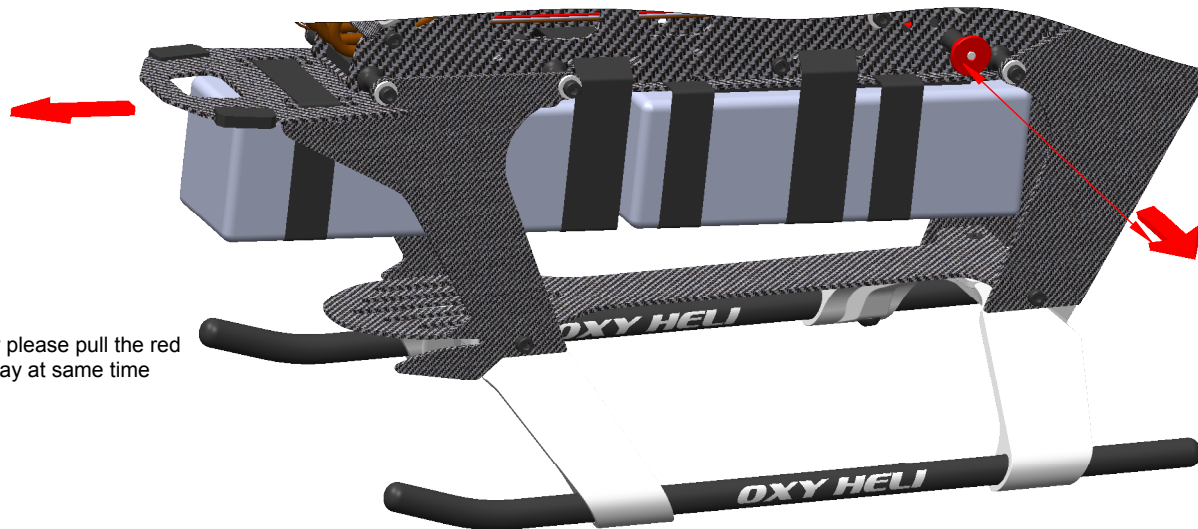




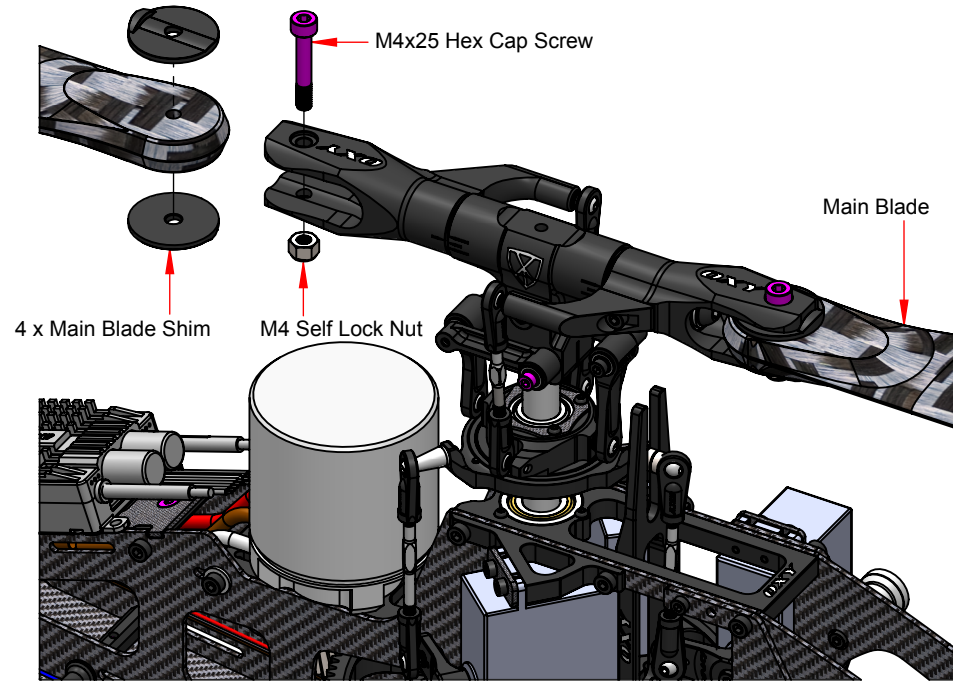
 Important note: Battery tray system is designed for easy installation and removal of battery. The tray is NOT designed to support the battery alone. For 6s use one Velcro strap to secure battery and tray assembly to the main frame. For 12s use 2 Velcro straps to secure battery(s) and tray assembly to the main frame. The battery and tray assembly should have no movement when assembled correctly.



⚠ Important note: Battery tray system is designed for easy installation and removal of battery. The tray is NOT designed to support the battery alone. For 6s use one Velcro strap to secure battery and tray assembly to the main frame. For 12s use 2 Velcro straps to secure battery(s) and tray assembly to the main frame. The battery and tray assembly should have no movement when assembled correctly.



to release Battery Tray please pull the red Nut and slide battery tray at same time

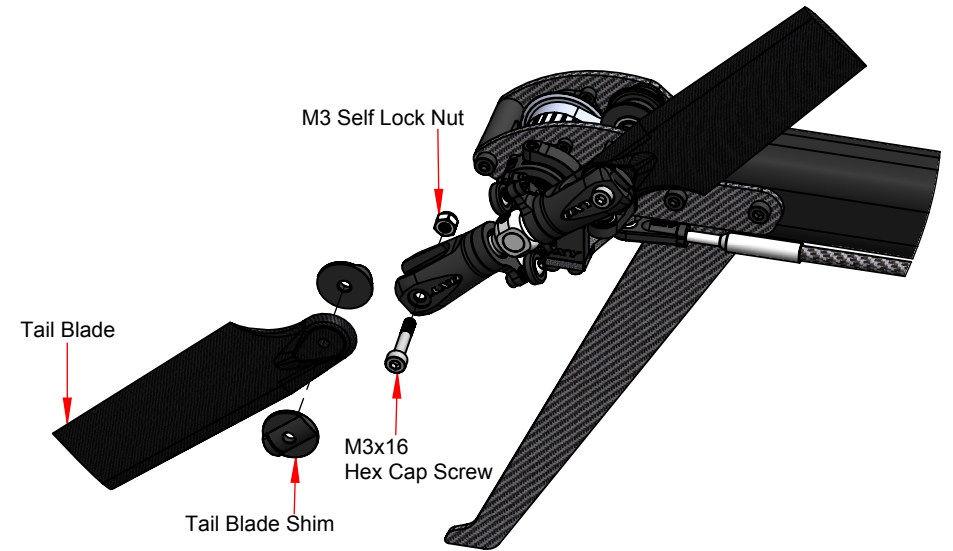


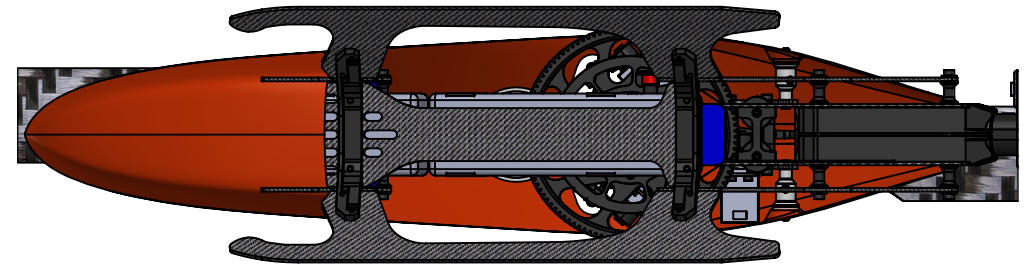
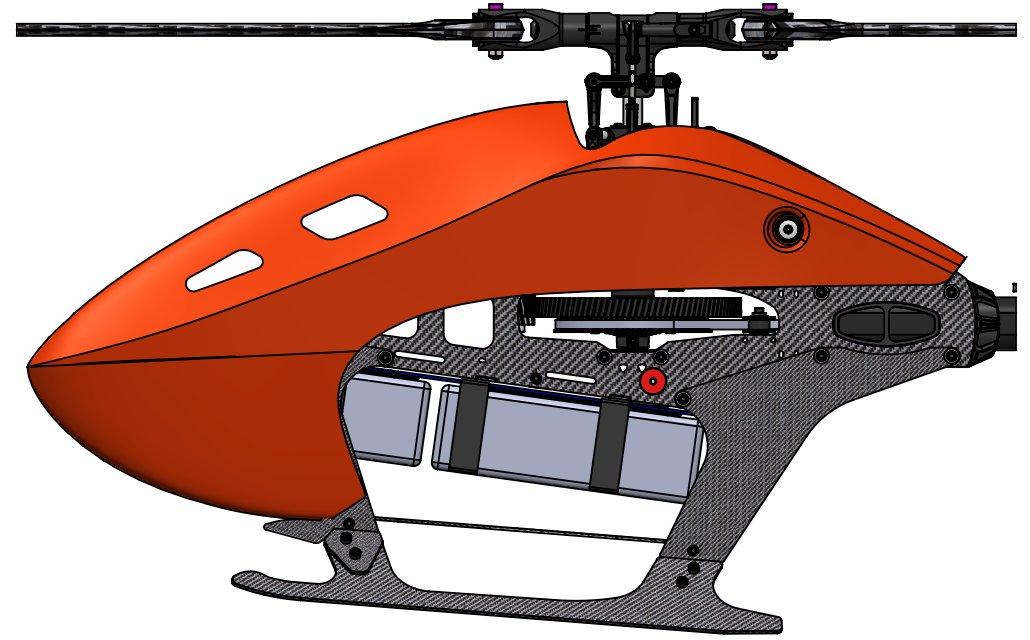
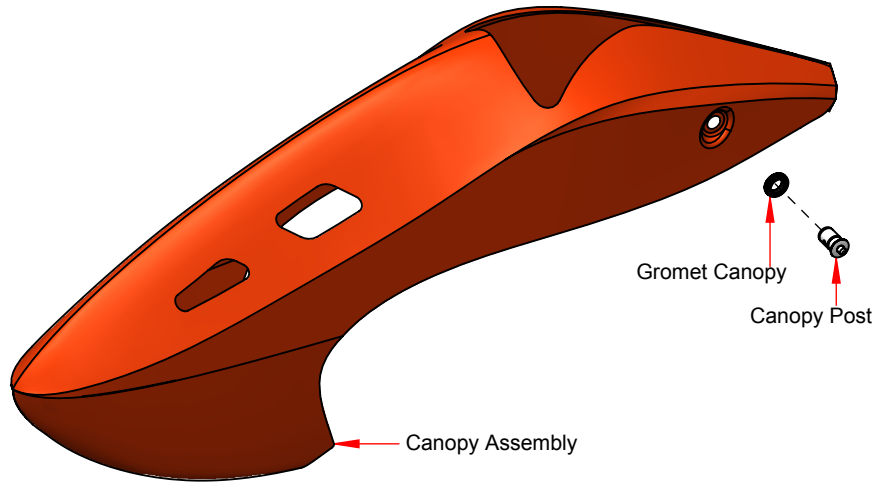
Please look at Accessories for the shims you need to adjust Main & Tail Blades thickness, in the kit have included:

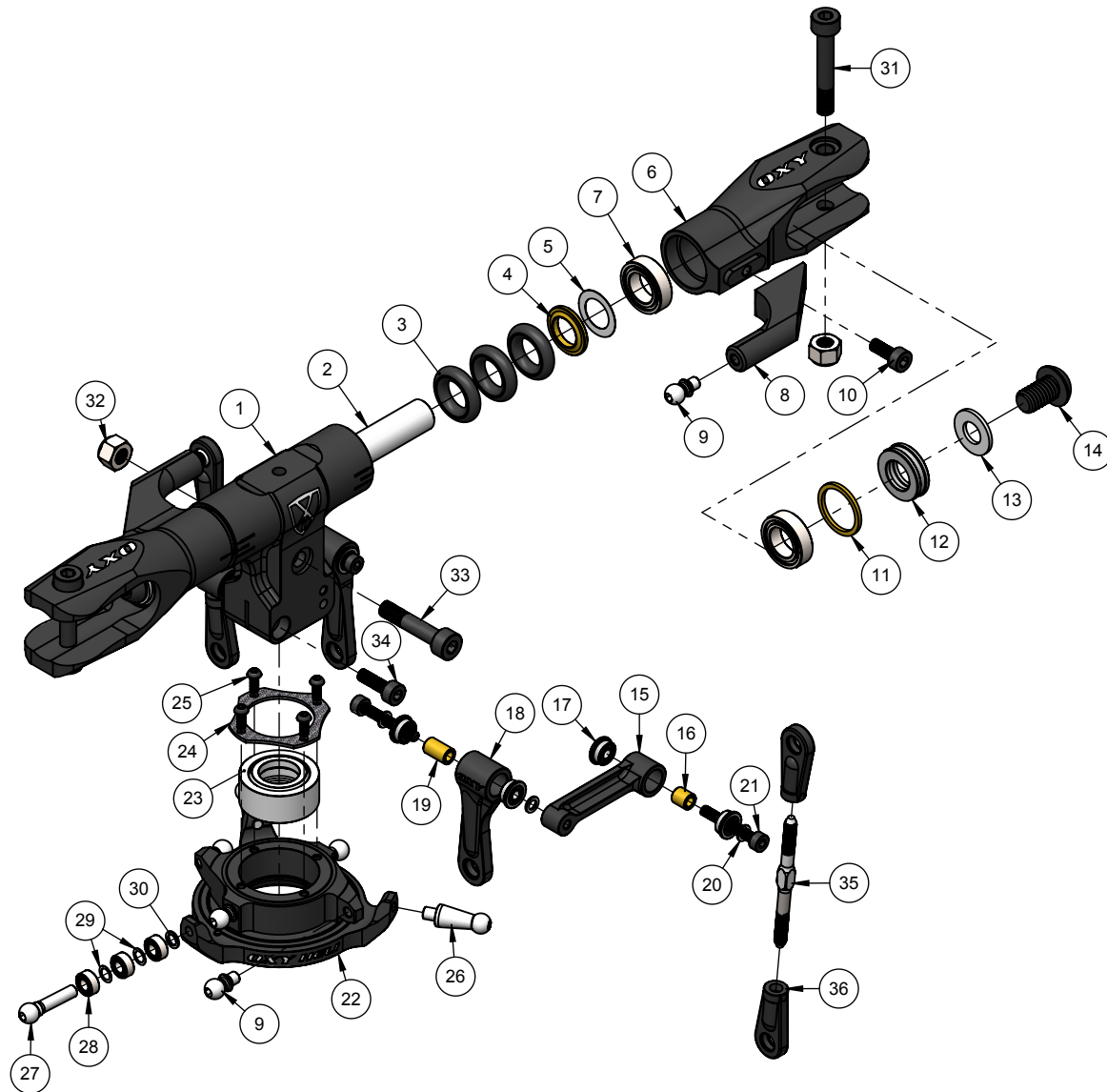
- 1 Set x OXY5 - Main Blade Plastic Spacer = 1.5mm thickness
- 1 Set x OXY5 - Main Blade Shim Silver = 0.5mm thickness
- 1 Set x OXY5 - Tail Blade Plastic Spacer = 1mm thickness



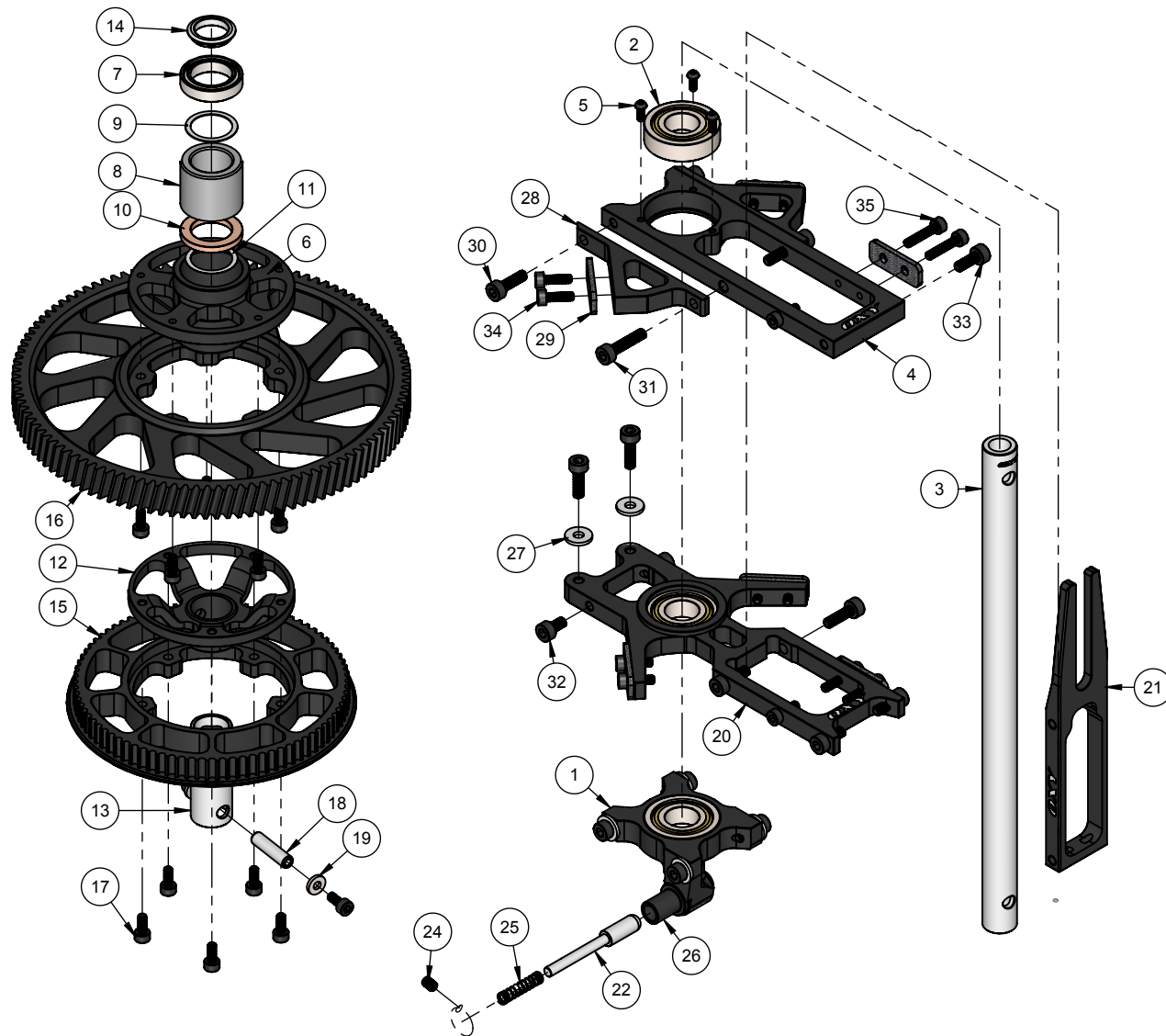
- For Main Blade have 10mm Root thickness please use Main Blade Shim PLastic 1.5mm thickness
- For Main Blade have 12mm Root thickness please use Main Blade Shim Silver 0.5mm thickness



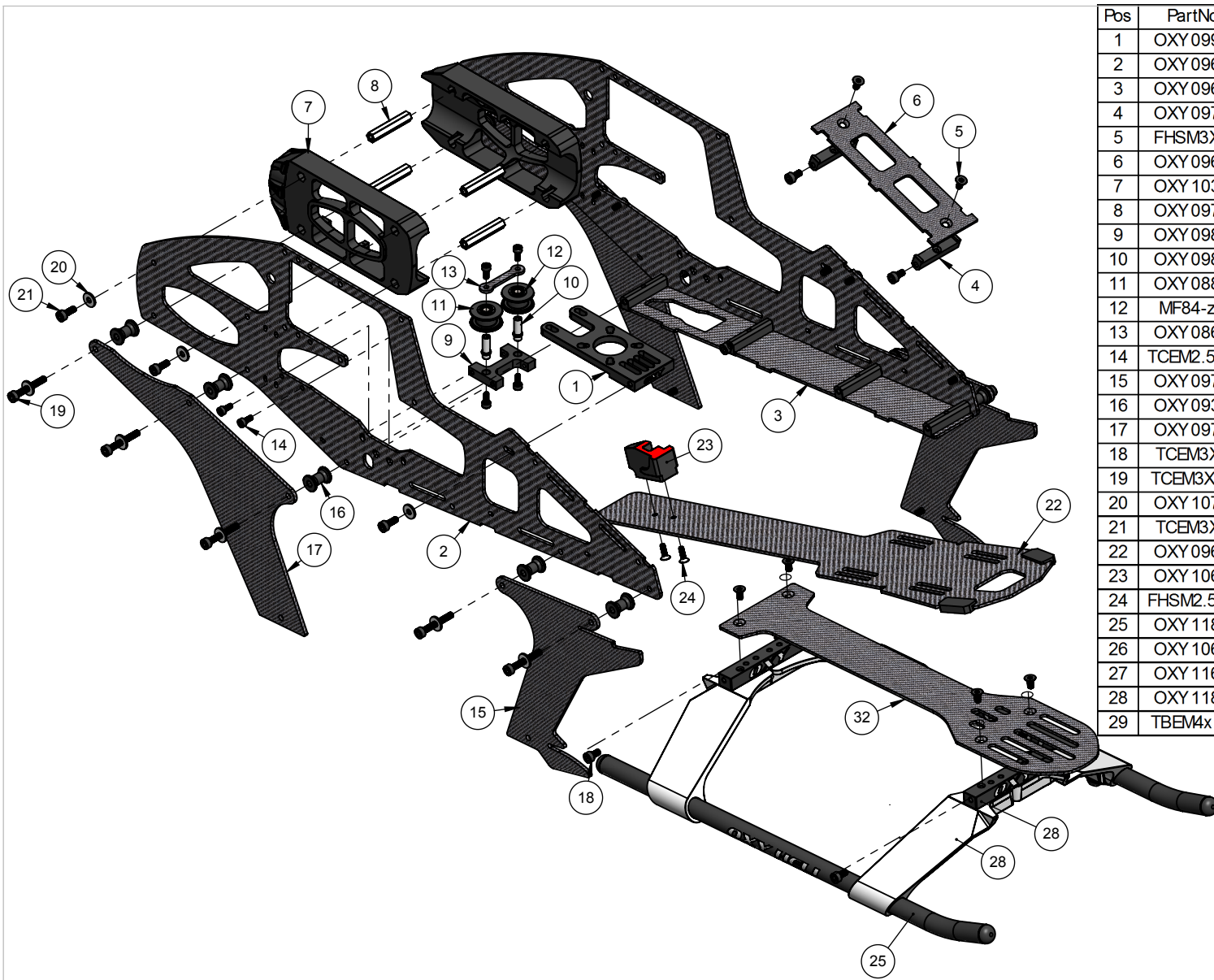




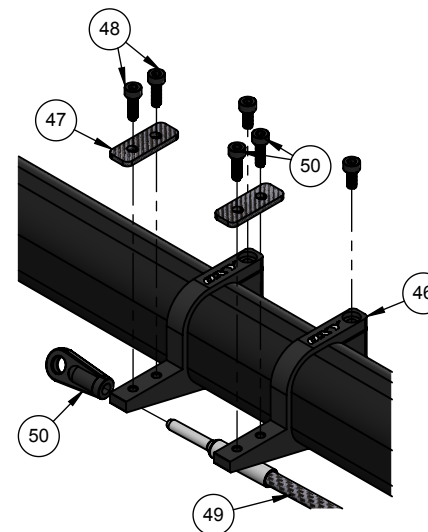
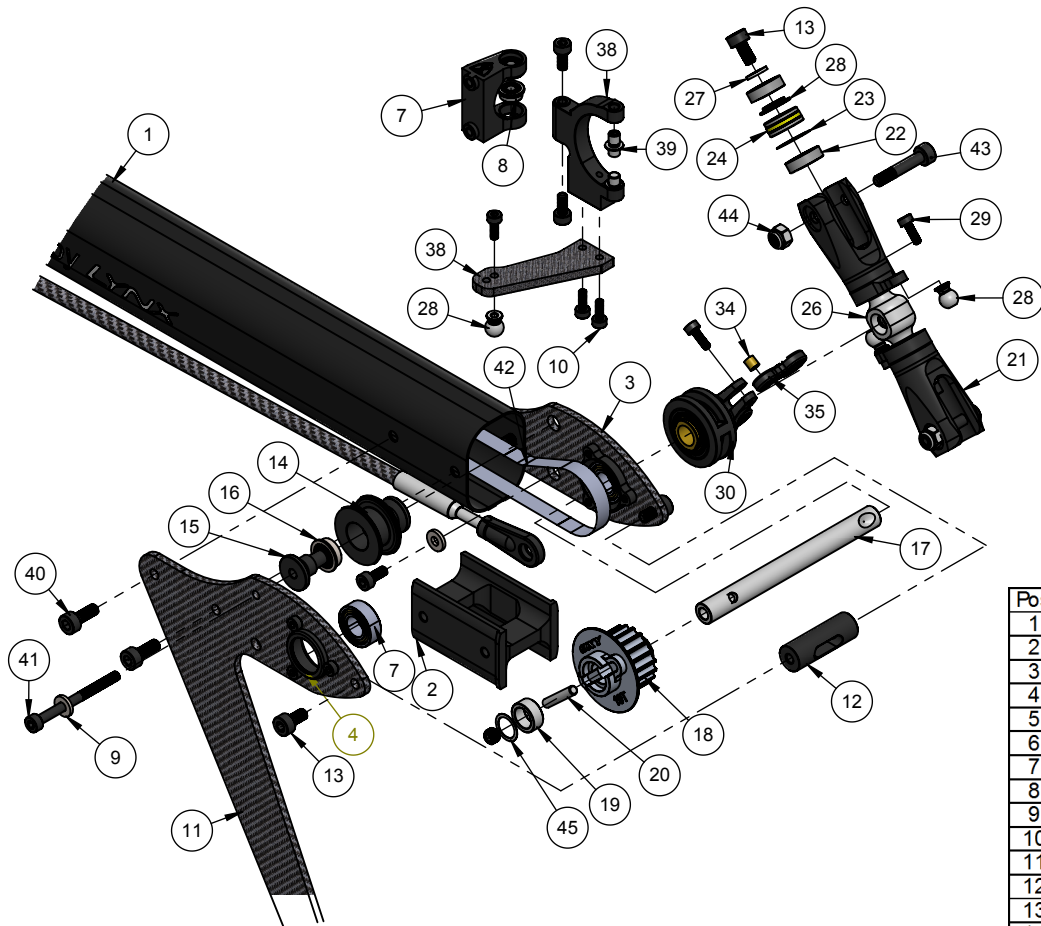
| Pos | PartNo | DESCRIPTION | QTY. |
|-----|-------------|---------------------------|------|
| 1 | OXY0861 | OXY5 Center Hub | 1 |
| 2 | OXY0834 | OXY5 Spindle Shaft | 1 |
| 3 | OXY1093 | Oring 7.5w 3.5 70 Shore | 6 |
| 4 | OXY0871 | 8X12.5X1 Steped Washer | 2 |
| 5 | OXY0879 | 8x12.5x0.1Shim | 2 |
| 6 | OXY0862 | OXY5 Main Grip | 2 |
| 7 | MR148-ZZ | 8x14x4 Radial Bearing | 4 |
| 8 | OXY0880 | OXY5 Grip Arm | 2 |
| 9 | OXY1075 | M3 Linkage Ball 5mm | 6 |
| 10 | TCEM3X8 | M3X8 Hex Cap Screw | 2 |
| 11 | OXY0908 | 11x14x1 Spacer | 2 |
| 12 | F8-14G | 8x14x4 Thrust Bearing | 2 |
| 13 | OXY0872 | 6x12x1 Washer | 2 |
| 14 | TBEM6x10 | M6x10 Button Screw | 2 |
| 15 | OXY0899 | OXY5-Follow er Arm | 2 |
| 16 | OXY0881 | 2.5X4.5X4.5 Bushing | 2 |
| 17 | SMF682X-ZZ | 2.5x6x2.6 Flange Bearing | 8 |
| 18 | OXY1041 | OXY5 Radius Arm | 2 |
| 19 | OXY0877 | 2.6x4x7 Bushing | 2 |
| 20 | OXY0870 | 2.5X4X0.5 Washer | 8 |
| 21 | TCEM2.5X18 | M2.5x18 Hex Cap Screw | 4 |
| 22 | OXY0863 | OXY5 low er Sw ash Plate | 1 |
| 23 | OXY0866 | OXY5 SW Center Ball | 1 |
| 24 | OXY0868 | OXY5 SW CF Cover | 1 |
| 25 | TBEM2X5 | M2X5 Button Screw | 7 |
| 26 | OXY0832 | XY5 low er Sw ash Plate B | 2 |
| 27 | OXY0833 | OXY5 Anti Rotation Ball | 1 |
| 28 | MR63 ZZC | RADIAL BEARING 3X6X2.5 | 3 |
| 29 | OXY0054 | 3X4X0.1 Shim | 2 |
| 30 | OXY0778 | 3.1x4.4x0.5 Washer | 1 |
| 31 | TCEM4x25S17 | M4x25 Hex Cap Screw | 2 |
| 32 | SLNM4 | M4 Self Look Nut | 3 |
| 33 | TCEM4x20S12 | M4x20 Hex Cap Screw | 1 |
| 34 | TCEM3X10 | M3X10 Hex Cap Screw | 2 |
| 35 | OXY1062 | M3x40 Turnbuckle Rod | 2 |
| 36 | DR1252 | Linkage Ball | 4 |



| Pos | PartNo | DESCRIPTION | QTY. |
|-----|------------|--|------|
| 1 | OXY0944 | OXY5-Low er Bearing Block | 1 |
| 2 | SMR900-ZZC | 10X22X6 Radial Bearing | 3 |
| 3 | OXY0878 | OXY 5 Main Shaft | 1 |
| 4 | OXY0849 | OXY5 Upper Bearing Block | 1 |
| 5 | TBEM2X5 | M2X5 Button Screw | 3 |
| 6 | OXY0842 | OXY 5 Main Gear Hub | 1 |
| 7 | MR6701_ZZ | 12X18X4 RADIAL BEARING | 1 |
| 8 | HF1216 | 12x18x16 One Way Bearing | 1 |
| 9 | OXY0988 | 12X14X0.3 Shim | 1 |
| 10 | OXY0986 | One Way Bushing | 1 |
| 11 | OXY1060 | 12X14X0.1 Shim | 1 |
| 12 | OXY0843 | OXY 5 Main Pulley Hub | 1 |
| 13 | OXY0846 | OXY5 Main Gear Sleeve | 1 |
| 14 | OXY0990 | OXY 5 Main Gear Sleeve Cap | 1 |
| 15 | OXY0845 | OXY 5 Front Belt Pulley | 1 |
| 16 | OXY0841 | OXY5 110T M01 Main Gear | 1 |
| 17 | TCEM2.5X6 | M2.5X6 Hex Cap Screw | 12 |
| 18 | OXY0844 | OXY 5 Jesus Pin | 1 |
| 19 | OXY0332 | M2.5 Washer | 2 |
| 20 | OXY0850 | OXY 5 Middle Bearing Block | 1 |
| 21 | OXY0848 | OXY 5 Anti Rotation Guide | 1 |
| 22 | OXY1073 | OXY 5 Quick Release Pin | 1 |
| 23 | CP0040 | 17-7062-3-Battery Quick Release Button | 1 |
| 24 | SCM3x4 | Flat-Tip Set Screw M3x4 | 1 |
| 25 | OXY1089 | OXY5- Quick Release Spring 0.4XOD4x25 | 1 |
| 26 | OXY1069 | OXY5- Quick Release Battery , Spring | 1 |
| 27 | OXY1072 | 3x8x1 Washer | 6 |
| 28 | OXY0853 | OXY5- Front std Servo Support | 2 |
| 29 | OXY1087 | OXY 5 Servo Tab | 6 |
| 30 | TCEM3X10 | M3X10 Hex Cap Screw | 6 |
| 31 | TCEM3X14 | M3X14 Hex Cap Screw | 2 |
| 32 | TCEM3X6 | M3X6 Hex Cap Screw | 2 |
| 33 | TCEM3X8 | M3X8 Hex Cap Screw | 7 |
| 34 | TCEM2.5x8 | M2.5X8 Hex Cap Screw | 10 |
| 35 | TCEM2.5x12 | M2.5X12 Hex Cap Screw | 4 |



| Pos | PartNo | DESCRIPTION | QTY. |
|-----|-----------|---|------|
| 1 | OXY 0995 | OXY 5 Motor Mount | 1 |
| 2 | OXY 0969 | OXY 5-Main Frame Plate | 2 |
| 3 | OXY 0963 | OXY 5-Middle CF Frame Plate | 1 |
| 4 | OXY 0978 | OXY 5 Frame Spacer Rod | 6 |
| 5 | FHSM3X6 | M3X6 Flat Head Screw | 10 |
| 6 | OXY 0962 | OXY 5- ESC Tray Plate | 1 |
| 7 | OXY 1034 | OXY 5 Boom Clamp Moulded | 2 |
| 8 | OXY 0979 | OXY 5-Hex Rod 5x28 | 4 |
| 9 | OXY 0985 | OXY 5 STD Front Pulley Guide Belt Support | 1 |
| 10 | OXY 0984 | OXY 5 STD Front Pulley Guide Belt Pin | 2 |
| 11 | OXY 0883 | OXY 5-Front Pulley Guide Belt | 2 |
| 12 | MF84-zz | 4x8x3 flange Bearing | 4 |
| 13 | OXY 0860 | OXY 5 STD Front Pulley Guide Belt Bridge | 1 |
| 14 | TCEM2.5X6 | M2.5X6 Hex Cap Screw | 8 |
| 15 | OXY 0970 | OXY 5-Front Length Plate | 2 |
| 16 | OXY 0932 | OXY 6 Frame Spacer Bushing | 10 |
| 17 | OXY 0971 | OXY 5 Back Leng Plate | 2 |
| 18 | TCEM3X6 | M3X6 Hex Cap Screw | 14 |
| 19 | TCEM3X22 | M3X22 Hex Cap Screw | 10 |
| 20 | OXY 1072 | 3x8x1 Washer | 6 |
| 21 | TCEM3X8 | M3X8 Hex Cap Screw | 10 |
| 22 | OXY 0961 | OXY 5- Battery Tray | 1 |
| 23 | OXY 1066 | OXY 5 Battery Hook | 1 |
| 24 | FHSM2.5X8 | M2.5X8 Flat Head Screw | 2 |
| 25 | OXY 1189 | OXY 5 Landing Gear Tube | 2 |
| 26 | OXY 1067 | OXY 5 Bottom Plate Landing Gear | 1 |
| 27 | OXY 1161 | OXY 5- PL Landing Gear Support | 2 |
| 28 | OXY 1188 | OXY 5 Landing Gear Support for Plastic | 2 |
| 29 | TBEM4x10 | M4x10 Button Screw | 4 |



| Pos | PartNo | DESCRIPTION | QTY | Pb | PartNo | DESCRIPTION | QTY |
|-----|------------|--------------------------|-----|----|------------|---------------------------------|-----|
| 1 | OXY0780 | OXY5 STD Tail Boom | 1 | 26 | OXY0811 | OXY5-Tail Hub | 1 |
| 2 | OXY0822 | OXY5 Tail Case Insert | 1 | 27 | OXY1036 | 3x6x1 Washer | 2 |
| 3 | OXY0974 | Tail Case Plate | 1 | 28 | OXY0874 | 5mm Servo Ball | 3 |
| 4 | OXY1003 | OXY5-Tail bearing | 2 | 29 | TCEM2X6 | M2X6 Hex Cap Screw | 7 |
| 5 | RM126-ZZ | 6x12x4 Radial Bearing | 2 | 30 | OXY1043 | OXY5 PL Slider Ring | 1 |
| 6 | TCEM2X5 | M2X5 Hex Cap Screw | 6 | 31 | OXY1005 | OXY5- Tail Pitch Slider Bushing | 1 |
| 7 | OXY0818 | OXY5 Tail Bell Crank | 1 | 32 | OXY0816 | OXY5- Tail Slider Haft Moon | 1 |
| 8 | SMF682X-ZZ | 2.5x6x2.6 Flange Bearing | 2 | 33 | MR128-ZZ | 8X12X3.5 Radial Bearing | 2 |
| 9 | OXY0332 | M2.5 Washer | 2 | 34 | OXY1038 | 2x3x3 Bushing | 2 |
| 10 | TCEM2.5X6 | M2.5X6 Hex Cap Screw | 5 | 35 | OXY1042 | OXY5 Link Control | 2 |
| 11 | OXY0973 | OXY5-Vertical Fin | 1 | 36 | OXY0817 | OXY5 Tail Bell Crank | 1 |
| 12 | OXY0821 | Tail Case Rod | 1 | 37 | OXY1058 | OXY5 - Tail Bell Crank Pin | 2 |
| 13 | TCEM3X6 | M3X6 Hex Cap Screw | 4 | 38 | OXY0977 | Bell Crank Arm | 1 |
| 14 | OXY0883 | OXY5-Front Pulley Guide | 1 | 39 | SCM4X4 | M4x4 Flat-Tip Set Screw | 2 |
| 15 | OXY0823 | OXY5 Tail Belt Tensioner | 2 | 40 | TCEM3X8 | M3X8 Hex Cap Screw | 4 |
| 16 | MF84-zz | 4x8x3 flange Bearing | 2 | 41 | TCEM2.5X30 | M2.5x30 Shoulder Hex Cap | 1 |
| 17 | OXY0812 | OXY5 Tail Shaft | 1 | 42 | HTD3M-1698 | Timing Belt | 1 |
| 18 | OXY0966 | OXY5 19T Tail Pulley | 1 | 43 | TCEM3X16S1 | M3X16 10mm Shouldered Hex | 2 |
| 19 | OXY1061 | Bushing 6x8.5x3.6 | 1 | 44 | SLNM3 | M3 Self Lock Nut | 2 |
| 20 | OXY1059 | 2.5x14 Dowel Pin | 1 | 45 | OXY0040 | 6X8X0.1 SHIM | 1 |
| 21 | OXY0810 | OXY4 Tail Grip | 2 | 46 | OXY0802 | OXY5 AL Tail Servo Mount | 2 |
| 22 | MR105 | 5x10x3 Radial Bearing | 4 | 47 | OXY1087 | OXY5 Servo Tab | 2 |
| 23 | OXY0039 | 8X10X0.2 SHIM | 2 | 48 | TCEM2.5x8 | M2.5X8 Hex Cap Screw | 4 |
| 24 | F5-10M | 5x10x4 Thrust Bearing | 2 | 49 | OXY0804 | OXY5 Tail Push Rod | 1 |
| 25 | OXY0807 | OXY5 Tail Grip Spacer | 2 | 50 | DR1252 | Linkage Ball | 2 |



OSP-1267-OXY5 - Center Hub



- 1 x Center Hub
- 2 x M3x10 Hex Cap Screw
- 1 x M4x20 Hex Cap Screw
- 1 x M4 Self Lock Nut

OSP-1268-OXY5 - Main Grip



- 1 x Main Grip
- 2 x 8x14x4 Radial Bearing
- 1 x M4x25 Hex Cap Screw
- 1 x 8x14x4 Thrust Bearing
- 1 Spacer 11x14x1

OSP-1269-OXY5
Main Grip Bearing



- 4 x 8x14x4 Radial Bearing
- 2 x 8x14x4 Thrust Bearing
- 2 Spacer 11x14x1

OSP-1270
OXY 5 - Dampeners Ring Soft



- 6 x Oring 7.5W3.5 70 Shore

OSP-1271
OXY 5 - Dampeners Ring Hard



- 6 x Oring 7.5W3.5 90 Shore

OSP-1272-OXY5
Spindle-Shaft



- 1 x Spindle
- 2 x Spacer 6x12x1
- 2 x M6x10 Button Screw

OSP-1273-OXY5
Follower Arm



- 1 Set follower Arm

OSP-1274-OXY5
Radius Arm



- 1 Set Radius Arm

OSP-1275-OXY5
Pitch Arm Ball Linkage



- 5 x 5mm Pitch Ball

OSP-1276-OXY5
40mm Turnbuckle Rod



- 2 x 40mm Turnbuckle Rod

OSP-1277-OXY5
Plastic Linkage Ball



- 10 x Plastic Ball Linkage

| | | | | |
|--|---|--|--|--|
| <p>OSP-1278-OXY5 Swashplate</p>  <p>1 x Swash Plate</p> | <p>OSP-1279-OXY5 Swashplate Swivel Ball</p>  <p>1 x Center Ball 1 CF Cover 4 x Pitch Ball 2 x Lower SW Ball 1 x Anti Rotation Ball 3 x M2x5 Button Screw</p> | <p>OSP-1352-OXY5 Spindle Step Spacer, Set</p>  <p>1 x Spindle Step Spacer</p> | <p>OSP-1281-OXY5 Main-Shaft</p>  <p>1 x Main Shaft 1 x M4x20 Hex Cap Screw 1 x M4 Self Lock Nut</p> | <p>OSP-1282-OXY5 Main-Grip-Arm</p>  <p>1 x Grip Arm 1 x M3x8 Hex Cap Screw 1 x Pitch Ball</p> |
| <p>M4x20CS-10 Hex Cap Shoulder Screw M4x20, 10PCS</p>  <p>10 x M4x20 Shouldred Hex Cap Screw</p> | <p>M4x25CS-10 Hex Cap Shoulder Screw M4x25, 10PCS</p>  <p>10 x M4x25 Shouldred Hex Cap Screw</p> | <p>M3x10CS-10 Hex Cap Screw M3x10, 10 PCS</p>  <p>10 x M3x10 Hex Cap Screw</p> | <p>M2.5x18CS-10 Hex Cap Screw M2.5x18, 10 PCS</p>  <p>10 x M2.5x18 Hex Cap Screw</p> | <p>OSP-1353 Washer 2.5x4x0.5, 10pcs</p>  <p>10 x 2.5x4x0.5 Washer</p> |
| <p>M4-SLN-10 Self Lock M4</p>  <p>10 x M4 Self Lock Nut</p> | <p>OSP-1280-OXY5 Blade-Holder</p>  <p>1 x Blade Holder</p> | <p>OSP-1341-OXY5 Main Blade Spacer 1.5mm</p>  <p>4 x 1.5 Main Blade Spacer</p> | <p>OSP-1342-OXY5 Main Blade Spacer 0.5mm</p>  <p>4 x 0.5 Main Blade Spacer</p> | <p>OSP-1357 OXY5-Leveler</p>  <p>1 x Leveler</p> |

OSP-1386 OXY5 - Rigid Dampener


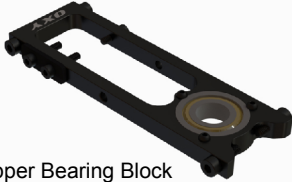



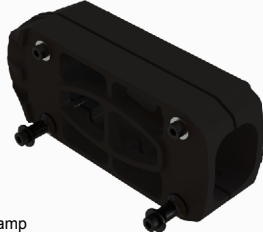



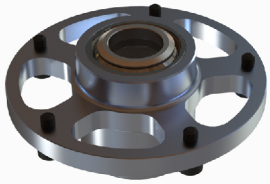


2 x POM Dampener
 2 x O-ring 7.5 w3.5 90 shore
 2 x shim 8.1x11x0.1

OSP-1401 OXY5 - MEG Turnbuckle Pitch Rod



2 x M3x47 Turnbuckle Pitch Rod

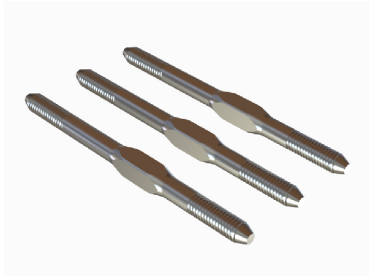
| | | | | |
|---|---|--|--|--|
|  | <p>OSP-1283-OXY5 Upper Bearing Block</p>  <p>1 x Upper Bearing Block 1 x 10x22x6 Radial Bearing 2 x M3x8 Hex Cap Screw 2 x M3x10 Hex Cap Screw 1 x M2.5x8 Hex Cap Screw 2 x M2.5x12 Hex Cap Screw</p> | <p>OSP-1286-OXY5 Standard Servo Support</p>  <p>1 x Front Servo Arm Support 2 x M2.5x8 Hex Cap Screw</p> | <p>OSP-1284-OXY5 Middle Bearing Block</p>  <p>1 x Middle Bearing Block 1 x 10x22x6 Radial Bearing 2 x M3x8 Hex Cap Screw 2 x M3x10 Hex Cap Screw 5 x M2.5x8 Hex Cap Screw 2 x M2.5x12 Hex Cap Screw</p> | |
| | <p>OSP-1285-OXY5 Lower Bearing Block</p>  <p>1 x Lower Bearing Block 1 x 10x22x6 Radial Bearing 4 x M3x8 Hex Cap Screw 4 x 3x8x1 Washer</p> | <p>OSP-1346-OXY5 Quick Release Canopy Pin</p>  <p>1 x Batter Tray Lock Pin 1 x Release Battery Nut 1 x Set Screw M3x4 1 x Spring 3x25 1 x Bushing</p> | <p>OSP-1288-OXY5 Front Boom Mount</p>  <p>2 x Boom Clamp 4 x 5mm Hexagon Rod 4 x M3 x8 Hex Cap Screw 1 x M3x22 Hex Cap Screw 1 x Frame Bushing</p> | |
| <p>OSP-1289-OXY5 Antirotation Guide</p>  <p>1 x Anti rotation Guide 2 x M3x10 Hex Cap Screw 2 x M3x14 Hex Cap Screw</p> | <p>OSP-1290-OXY5 ESC Plate</p>  <p>1 ESC Tray Set</p> | <p>OSP-1291-OXY5 Middle Frame Plate</p>  <p>1 CF Middle Tray</p> | <p>OSP-1292-OXY5 Quick Release Battery Tray</p>  <p>1 Battery Tray Plate</p> | <p>OSP-1293-OXY5 Main Gear Hub</p>  <p>1 Main Gear Hub Assembly</p> |

| | | | | |
|--|---|--|--|--|
| <p>OSP-1294-OXY5 CNC Main Gear</p>  <p>1 x Main Gear</p> | <p>OSP-1295-OXY5 Front Pulley</p>  <p>1 x Front Pulley</p> | <p>OSP-1296-OXY5 Front Pulley Hub</p>  <p>1 x Pulley Hub</p> | <p>OSP-1297-OXY5 One Way Sleeve</p>  <p>1 x Main Gear Sleeve</p> | <p>OSP-1298-OXY5 One Way Lock Pin</p>  <p>1 x Jesus Pin</p> |
| <p>OSP-1407 OXY5 Plastic Landing Gear Strut, White</p>  <p>1 x Landing Gear Support Set</p> | <p>OSP-1300-OXY5 Bottom Plate Landing Gear</p>  <p>1 x Bottom Plate</p> | <p>OSP-1405 OXY5 Plastic Landing Gear, Tube</p>  <p>Landing Gear Tube, Set</p> | <p>OSP-1302-OXY5 Main Frame, 1Pcs</p>  <p>1 x Main Frame</p> | <p>OSP-1303-OXY5 Front Length</p>  <p>Front Length, Set</p> |
| <p>OSP-1304-OXY5 Back Length</p>  <p>Rear Length, Set</p> | <p>OSP-1305-OXY5 Std CF Canopy Mount Plate</p>  <p>Canopy Mount Plate, Set</p> | <p>OSP-1306-OXY5 Quick Release canopy</p>  <p>Quick Release Canopy, Set</p> | <p>OSP-1307-OXY5 Frame Spacer Bushing</p>  <p>Frame Space Bushing, 10 Pcs</p> | <p>OSP-1308-OXY5 Rear Cyclic mini Servo Support</p>  <p>Rear Cyclic Servo</p> |

| | | | | |
|--|---|---|---|---|
| <p>OSP-1309-OXY5 Front Right Cyclic mini Servo Support</p>  <p>Right Front Cyclic mini Servo Support</p> | <p>OSP-1310-OXY5 Front Left Cyclic mini Servo Support</p>  <p>Front Left Cyclic mini Servo Support</p> | <p>OSP-1311-OXY5 Servo Arm F</p>  <p>Servo Arm, 5pcs</p> | <p>OSP-1312-OXY5 12T 6mm Pinion</p>  <p>1 x Pinion 12T</p> | <p>OSP-1313-OXY5 13T 6mm Pinion</p>  <p>1 x Pinion 13T</p> |
| <p>OSP-1314-OXY5 14T 6mm Pinion</p>  <p>1 x Pinion 14T</p> | <p>OSP-1358-OXY5 12T 5mm Pinion</p>  | <p>OSP-1359-OXY5 13T 5mm Pinion</p>  | <p>OSP-1360-OXY5 14T 5mm Pinion</p>  | <p>OSP-1318-OXY5 Front Pulley Guide Belt Support</p>  <p>Front Pulley Guide Belt Support</p> |
| <p>OSP-1319-OXY5 Front Pulley Guide Belt</p>  <p>Front Pulley Guide Belt, Set</p> | <p>OSP-1347-OXY5 mini-Servo-Support-Set</p>  <p>mini Servo Support, Set</p> | <p>OSP-1287-OXY5 Motor Mount</p>  <p>1 x Motor Mount</p> | <p>OSP-1349-OXY5 Servo Tab</p>  <p>Servo tab, 10pcs</p> | <p>OSP-1350-OXY5 mini-Servo-Tab</p>  <p>mini Servo tab, 10pcs</p> |

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|--|---|--|---|--|
| <p>OSP-1378 OXY5 - Motor Shaft Extra Support</p>  <p>1 x Thirst Motor Mount Block 1 x 5x13x4 Flange Bearing 1 x 6x13x5 Flange Bearing 4 x M3x12 Hex Cap Screw 4 x M4x12 Hex Cap Screw</p> | <p>OSP-1425-OXY5-Front-Frame-Spacer</p>  <p>2 x Front Frame Spacer</p> | <p>OSP-1426-OXY5-Rear-Frame-Spacer</p>  <p>2 x Rear Frame Spacer</p> | <p>OSP-1427-OXY5-Main-Gear-Bushing</p>  <p>1 x Main Gear Bushing</p> | <p>OSP-1428-OXY5-Main-Gear-One-Way-Case</p>  <p>1 x One Wase Case</p> |
| <p>OSP-1429-OXY5-Main Gear One Way Sleeve</p>  <p>1 x Main Gear One Way Sleeve</p> | <p>OSP-1430-OXY5 Main Gear Hub</p>  <p>1 x Main Gear Hub</p> | <p>OSP-1456-OXY5 HF One Way Hub, Set</p>  <p>1 x Main Gear Hub, Set</p> | | |
| | | | | |

OSP-1335-OXY5
45mm Turnbuckle Rod



45mm Turnbuckle Rod, 3Pcs

OSP-1277-OXY5
Plastict Linkage Ball, 10Pcs



Plastict Linkage Ball, 10Pcs

OSP-1339-OXY5
Servo Ball



Servo Ball, 5pcs

OSP-1354
3x8x1-Washer



3x8x1-Washer, 10pcs

M2x6CS-10
Hex Cap Screw M2x6, 10 PCS



M2x6 Hex Cap Screw, 10pcs

M2.5x8CS-10
Hex Cap Screw M2.5x8, 10 PCS



Hex Cap Screw M2.5x8, 10 PCS

M2.5x10CS-10
Hex Cap Screw M2.5x10, 10 PCS



Hex Cap Screw M2.5x10, 10 PCS

M2.5x12CS-10
Hex Cap Screw M2.5x12, 10 PCS



Hex Cap Screw M2.5x12, 10 PCS

M2.5x14CS-10
Hex Cap Screw M2.5x14, 10 PCS



Hex Cap Screw M2.5x14, 10 PCS

M3x6CS-10
Hex Cap Screw M3x6, 10PCS



Hex Cap Screw M3x6, 10PCS

M3x8CS-10
Hex Cap Screw M3x8, 10 PCS



Hex Cap Screw M3x8, 10 PCS

M3x10CS-10
Hex Cap Screw M3x10, 10 PCS



Hex Cap Screw M3x10, 10 PCS

M3x14CS-10
Hex Cap Screw M3x14, 10PCS



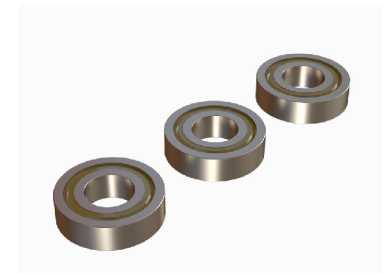
Hex Cap Screw M3x14, 10PCS

M3x22CSFT-10
Hex Cap Screw M3x22, 10PCS



Hex Cap Screw M3x22, 10PCS

OSP-1338
10-x22x6-Radial-Bearing



10x22x6 Radial Bearing



OSP-1315-OXY5 Tail Boom



1 x Tail Boom

OSP-1316-OXY5 Tail Servo Mount



Tail Servo Mount, Set

OSP-1317-OXY5 Tail Case Insert



1 x Tail Case Insert

OSP-1320-OXY5 Vertical Fin



Vertical Fin, Set

OSP-1322-OXY5 Tail Case Side



Tail Case Side

OSP-1321-OXY5 Tail Case Rod



Tail Case Rod

OSP-1323-OXY5 Tail hub



1 x Tail hub

OSP-1324-OXY5 Tail Shaft



1 x Tail Shaft

OSP-1325-OXY5 18T Tail Pulley



1 x 18T Pulley

OSP-1326-OXY5 19T Tail Pulley





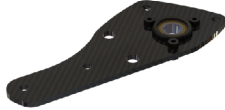



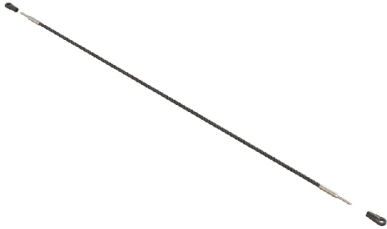
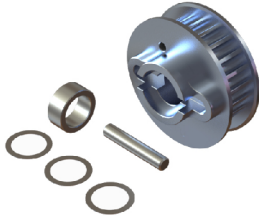



1 x 19T Pulley

OSP-1327-OXY5 20T Tail Pulley



1 x 20T Pulley

| | | | | |
|---|---|--|--|---|
| <p>OSP-1328-OXY5 Tail Pitch Slider</p>  <p>1 x Tail Pitch Slider</p> | <p>OSP-1329-OXY5 Tail pitch slider linkage</p>  <p>2 x Plastic Link Control, Spare</p> | <p>OSP-1330-OXY5 Bell Crank Support</p>  <p>1 x Bell Crank Support, Set</p> | <p>OSP-1331-OXY5 Tail Bell Crank</p>  <p>1 x Tail Bell Crank</p> | <p>OSP-1332-OXY5 Tail Push Rod Standard Length</p>  <p>1 x Tail Push Rod</p> |
| <p>OSP-1334-OXY5 Tail Belt STD Length</p>  <p>1 x HTD3M 1698mm Timing Belt</p> | <p>OSP-1336-OXY5 Tail Grip</p>  <p>1 x Tail Grip</p> | <p>OSP-1337-OXY5 Tail Grip Service Part</p>  <p>2 x Thrust Bearing 5x10x4 4 x Radial Bearing 5x10x3 2 x Shim 8x10x0.2 2 x Tail Grip Spacer</p> | <p>OSP-1343-OXY5 Tail Blade Spacer</p>  <p>4 x 1mm Tail Blade Spacer</p> | <p>OSP-1344-OXY5 Tail Case Bearing Service Bag</p>  <p>2 x 6x12x4 Radial Bearing</p> |
| <p>OSP-1345-OXY5 Tail Bell Crank Service Bag</p>  <p>1 x CF Arm 1 x ball 3 x M2x6 Hex Cap Screw</p> | <p>M2.5x30CS-10-Hex Cap Shoulder Screw M2.5x30, 10PCS</p>  <p>M2.5x30 Hex Cap Screw</p> | <p>M3x6CS-10 Hex Cap Screw M3x6, 10PCS</p>  <p>M3x6CS-10 Hex Cap Screw M3x6, 10PCS</p> | <p>M3x8CS-10 Hex Cap Screw M3x8, 10 PCS</p>  <p>Hex Cap Screw M3x8 10PCS</p> | <p>M2.5x6CS-10 Hex Cap Screw M2.5x6, 10 PCS</p>  <p>Hex Cap Screw M2.5x6, 10 PCS</p> |

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|---|--|--|--|--|
| <p>M2x6CS-10 - Hex Cap Screw M2x6, 10 PCS</p>  <p>Hex Cap Screw M2x6, 10 PCS</p> | <p>OSP-1454-OXY5-HF-Verticl-Fin</p>  <p>1 x HF Vertical Fin</p> | <p>OSP-1455-OXY5-HF-Tail-Case</p>  <p>1 x HF Side Case</p> | <p>OSP-1422-OXY5-Black White Matte Painted STD Tail Boom</p>  <p>1 x STD Matte Black-White Painted Boom</p> | <p>OSP-1423-OXY5-Black White Matte Painted 625 Tail Boom</p>  <p>1 x 625 Matte Black-White Painted Boom</p> |
| <p>OSP-1374 OXY5 - MEG Stretch Tail Belt</p>  <p>1 x Meg Tail Belt</p> | <p>OSP-1375 OXY5 - MEG Stretch Tail Push Rod</p>  <p>1 x Meg Tail Rod</p> | <p>OSP-1451-OXY5 HF 21T Tail Pulley</p>  <p>1 x 21T tail Pulley, Set</p> | <p>OSP-1452-OXY5-HF-22T-Tail-Pulley</p>  <p>1 x 22T tail Pulley, Set</p> | <p>OSP-1453-OXY5 HF Tail Tensioner</p>  <p>1 x Tensioner, Set</p> |
| <p>OSP-1373 OXY5 - MEG Stretch Tail Boom</p>  | | | | |

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|--|--|--|--|--|
| <p>SP-OXY3-054 - OXY3 Battery Hook & Loop, 2 Set</p>  <p>Battery Hook & Loop, 2 Set</p> | <p>LX0194 - 10/15mm Electronic Hook & Loop</p>  <p>Electronic Hook & Loop</p> | <p>LX5242 - Omicron Threadlocker Medium Strength</p>  | <p>LX5648 - Omicron Retaining Compound High Strength Bonding</p>  | <p>SP-OXY3-055 - OXY3 Double Side Adhesive Tape, 2PC</p>  <p>Double Side Adhesive Tape, 2PC</p> |
| <p>SP-OXY3-057 - Cable Ties Set</p>  | <p>LX0169 - 8/10mm Spindle Shaft Wrench</p>  | <p>OSP-1363-OXY5-300mm Battery Velcro</p>  | <p>OSP-1364-OXY5-255mm Battery Velcro</p>  | |
| | | | | |

Update list

5 - August - 2019: edit page 11

Add Pro Tips To optimize assembly precision and compensate tolerance slack, add little amount of superglue 401 or 402, between Tail Pulley and Tail Shaft as shown. For service operation, heat with lighter the Shaft to unlock the parts.

5 - August - 2019: edit page 14

Add Pro Tips: To optimize assembly precision and compensate tolerance slack, add little amount of superglue 401 or 402, between Tail Case Bearing and Tail Shaft as shown. For service operation, gently push out the shaft.

5 - August - 2019: page 15

Add Pro Tips: add little amount of loctite 243 between Tail Hub and Tail Shaft, will increase the assembly precision and strength. For service operation, heat with lighter the Hub and unlock lockthread.

5 - August - 2019: page 28

Edit Fine Adjust Shims Note: In order to give fine adjustment options, in the Extra Hardware Bag you will find extra shims 12X18X0.1. Start assembly one shim. If Gear Hub has play more than 0.1, add shims as required,

Add Pro Tips: The Gear Hub must have at least 0.1mm vertical play.

5 - August - 2019: page 30

Edit main Shaft Side Note.

5 - August - 2019: page 31

Add Note: In order to remove Main Shaft vertical play, Lower Bearing Block MUST move UP! To remove eventually residual Main Shaft vertical play, gently increase Jesus Pin Screw tighten.

5 - August - 2019: page 34

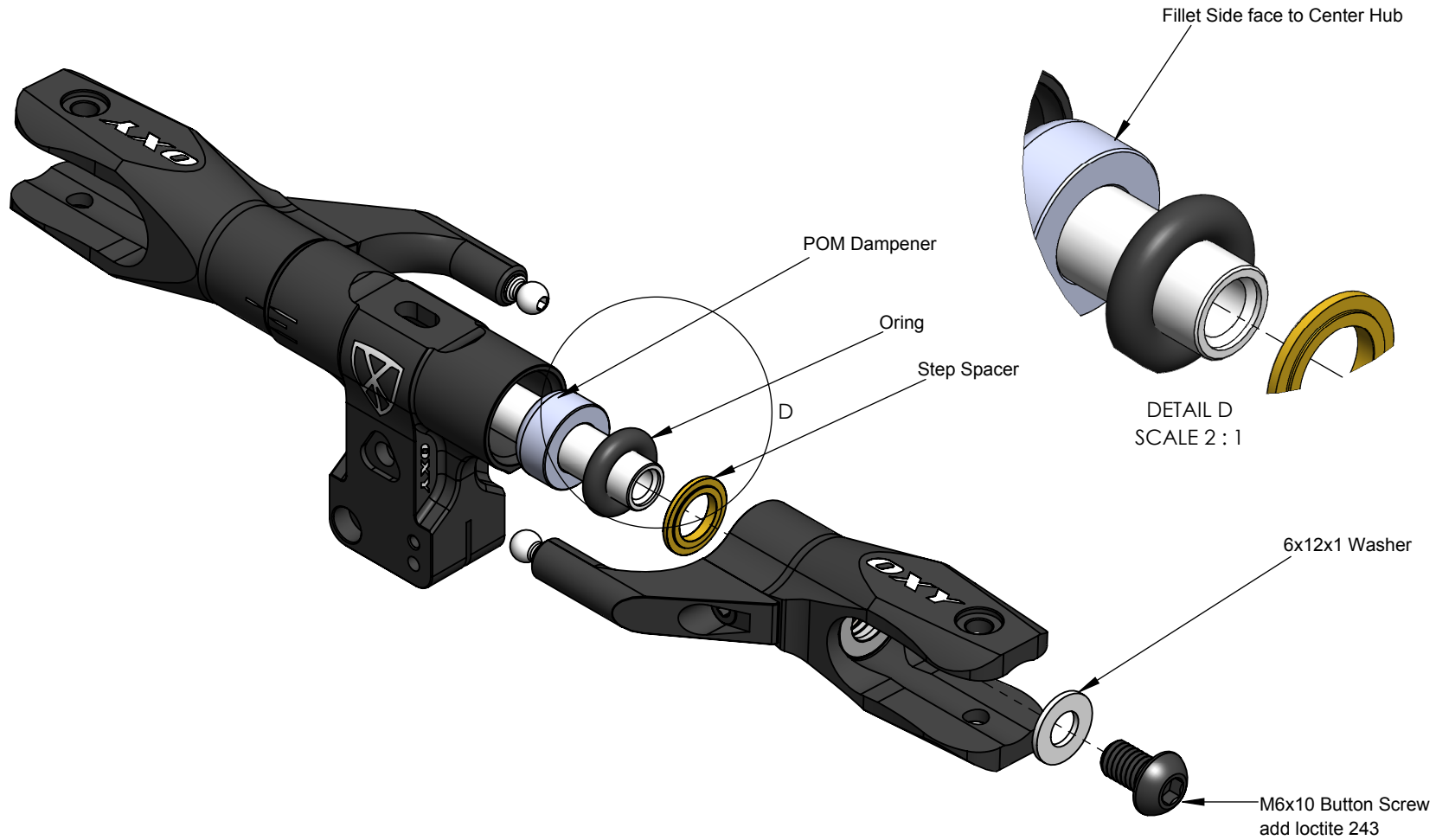
Add note for Linkage Ball Position: In our testing 17.5mm default servo ball mount works best for most FBL and servo combinations. However depending on your servo resolution and FBL for example NEO you may yield better results with 14.5mm position.

5 - August - 2019: page 34

Main Gear/Pinion Mesh Pro Tips: Push motor / pinion against main gear, then rotate main gear by hand, find if there is any high spot, if there is, then set your gear mesh tight there. By tight, push lightly by hand. Then rotate gear, slightly by hand. Then lock down the motor position. Then check by hand, high spot should just contact, rest you should feel just a hair click of backlash.

Semi-Rigid Dampenerpage 77
3th Motor mount Block.....page 78

Semi-Rigid Dampener



3th Motor mount Block

Depend on your Motor Shaft
Please choose 6x13x5 Flange Bearing
or 5x13x4 Flange Bearing

