

# OXY 3 - Tareq Edition

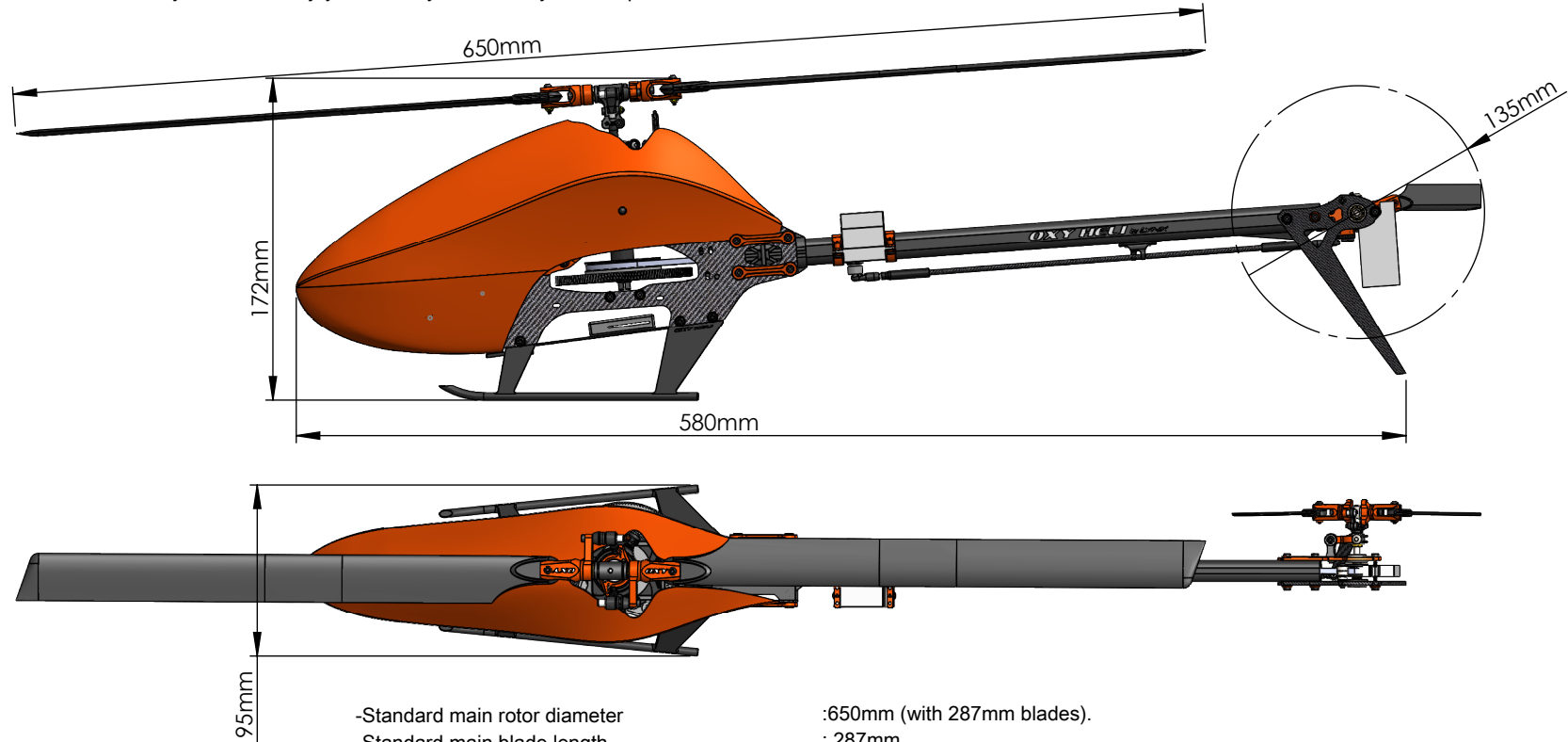
ID2018 Instruction Manual  
Tareq Edition



Chapter 1 - Specifications .....	page 2
Chapter 2 - Important Notes .....	page 3
Chapter 3 - Required Tools for Assembly .....	page 4
Chapter 4 - What's Inside The Box .....	page 5 - 6
Chapter 5 - Pinion Selection & RPM .....	page 7
Chapter 6 - Tail Assembly .....	page 8 - 13
Chapter 7 - Main Frame Assembly .....	page 14 - 18
Chapter 8 - Align and Lock Frame Panel .....	page 19
Chapter 9 - Transmission Assembly .....	page 20-21
Chapter 10 - Belt Tension & Adjustment .....	page 22
Chapter 11 - Main Rotor Assembly .....	page 23-25
Chapter 12 - ESC Installation .....	page 26
Chapter 13 - Flybarless Installation .....	page 27
Chapter 14 - Servo & Servo Rod Preparation .....	page 28
Chapter 15 - Cyclic Servo Installation .....	page 29
Chapter 16 - Tail Servo Installation .....	page 30
Chapter 17 - Landing Gear & Battery Installation .....	page 31
Chapter 18 - Main & Tail Blades Installation .....	page 31
Chapter 19 - Adjustment Servo with Leveler .....	page 32-33
Chapter 20 - Exploded View .....	page 34-37

**VERY IMPORTANT NOTE:**

- Visit the Oxy Heli web site [www.oxyheli.com](http://www.oxyheli.com) to download the latest version of the manual.
- Inside Box 3 you will find your serial number card. Please take a moment to visit the Oxy Heli web site 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 4 Helicopter.



-Standard main rotor diameter	:650mm (with 287mm blades).
-Standard main blade length	: 287mm
-Main Grip Clamping	: M2 / 5.6 mm root.
-Standard tail rotor diameter	: 135 mm.
-Standard tail blade length	: 47/50 mm.
-Tail Blade Clamping	: M2 / 3.5 mm root.
-Standard Main Pulley	: 59T
-Standard Tail Pulley	: 16T
-Weight	: 445g (ready to fly excluding batteries)
-Maximum motor size	: diameter 28mm.
-Maximum battery size	: length 76mm, height 35mm, width 37mm, 170gr weight

**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:**

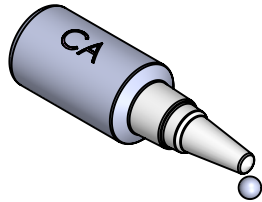
Only fly this model in areas designated for the use of model aircraft. Ensure you obtain indemnity insurance, normally available through your National model aircraft association. Remain at least 6 meters (20 feet) from the model at all times. Never allow spectators or animals any closer than 30 meters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



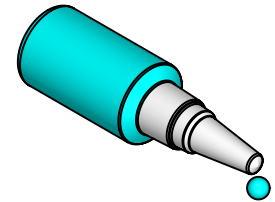
Use CA Glue



Use Loctite 243 Medium Strength



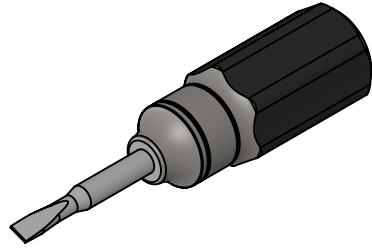
Use Loctite 648 Bonding



Use Silicone Grease

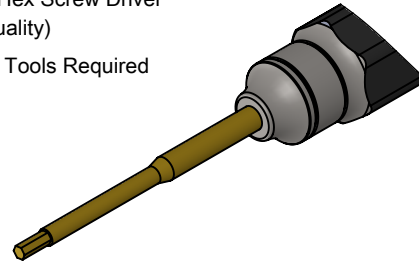
TOOLS REQUIRED

Small Tip - Flat Screw Driver



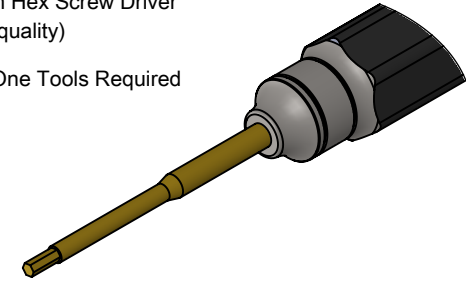
1.5mm Hex Screw Driver  
(High quality)

⚠ Two Tools Required

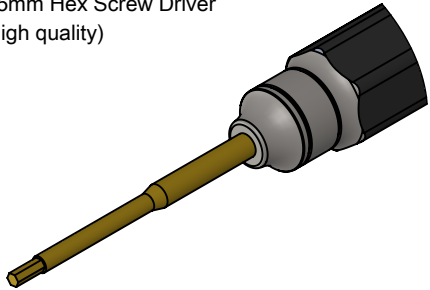


1.3mm Hex Screw Driver  
(High quality)

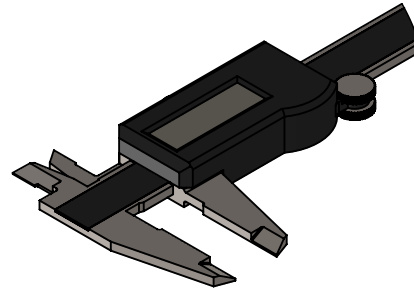
⚠ One Tools Required



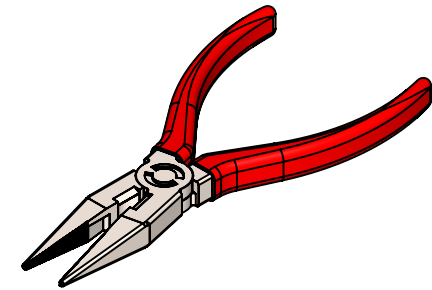
2.5mm Hex Screw Driver  
(High quality)



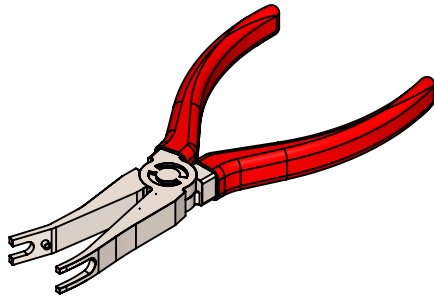
Caliper



Needle Nose Pliers

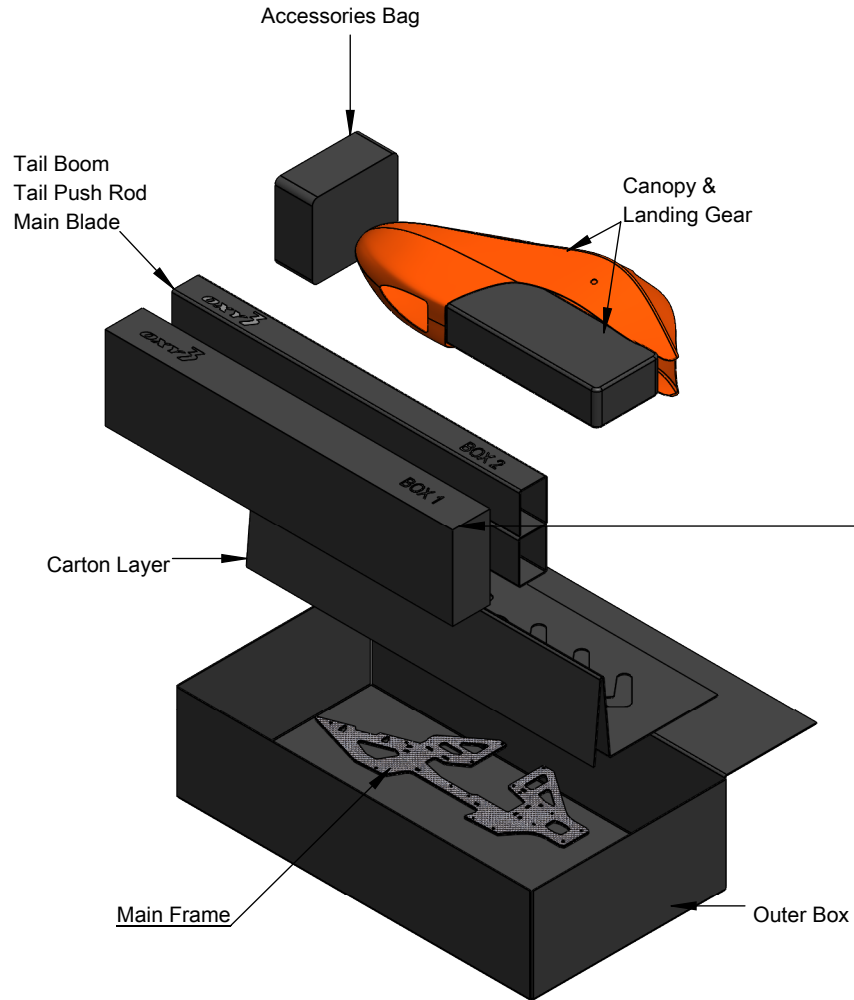


Uniball Pliers

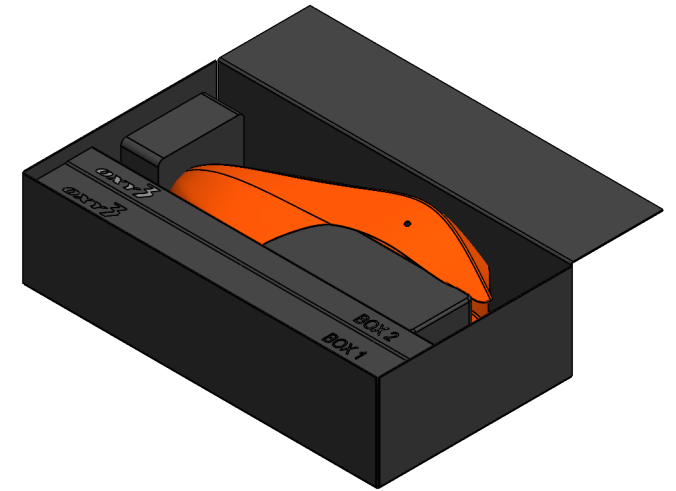


Note :

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



- SERIAL NUMBER**
- Box 1/ Bag 1 Vertical Fin
  - Box 1/ Bag 2 Tail Rotor
  - Box 1/ Bag 3 16T Tail Shaft
  - Box 1/ Bag 4 Tail Pitch Slider
  - Box 1/ Bag 5 Tail Bell Crank
  - Box 1/ Bag 6 Tail Belt
  - Box 1/ Bag 7 Tail Servo Mount
  - Box 1/ Bag 8 Boom Clamp
  - Box 1/ Bag 9 Upper Bearing Block
  - Box 1/ Bag 10 Middle Bearing Block
  - Box 1/ Bag 11 Lower Bearing Block
  - Box 1/ Bag 12 Break Away Canopy
  - Box 1/ Bag 13 Motor Mount
  - Box 1/ Bag 14 Battery Tray
  - Box 1/ Bag 15 Main Shaft
  - Box 1/ Bag 16 Main Gear
  - Box 1/ Bag 17 Main Rotor
  - Box 1/ Bag 18 Swash Plate
  - Box 1/ Bag 19 Servo Linkage Ball
  - Box 1/ Bag 20 Tail Blade
  - Box 1/ Bag 22 C Washer



## OXY 3 POWER SYSTEM AND HEAD SPEED SET-UP.

In order to choose your best Oxy 3 set up, and optimize performance, it is important to know some important information:

1- Motor Kv - (EOX 2214 - 4100 KV Standard Motor)

2- Battery Pack - (3s or 4s)

3- Your target Head Speed

If you use a head speed calculator that request main gear ratios, use 140 T for the main gear and select one of the pinion available

10T - 11T - 12T - 13T - 14T - 15T - (Standard Kit come with two pinions 11T and 14T, that ensures a Head Speed Range with 3 and 4S suitable

from Novice to Expert Pilot requests.

OXY P/N	Description	Ratio	Note
SP-OXY3-039	OXY3 - Pinion 10T - Shaft 3.17	14.00	
SP-OXY3-040	OXY3 - Pinion 11T - Shaft 3.17	12.73	Included
OSP-1086	OXY4 Pinion 12T - 3.17mm Motor Shaft	11.67	
OSP-1091	OXY4 Pinion 13T - 3.17mm Motor Shaft	10.77	
OSP-1065	OXY4 Pinion 14T - 3.17mm Motor Shaft	10.00	Included
OSP-1088	OXY4 Pinion 15T - 3.17mm Motor Shaft	9.33	

### Oxy 3 Fly Style / Head Speed / Main Blade / Tail Blade / Max Pitch suggestion chart:

Fly Style	Head Speed	Main Blade	Tail Blade	Max Pitch
Hover	2500/3000	285 CF	50	10/-3
		290 CF		
Fly 2D	3000/3500	285 CF	50	10/-5
		290 CF		
Soft 3D	3000/3500	285 CF	50	+/-12
		290 CF		
Hard 3D	3500/4000	285 CF	47	+/-14
		290 CF		
Extreme 3D	4000/4500	285 CF	47	+/-14
		290 CF		

Head Speed Note: Although Oxy 3 can handle very high Head Speed, we suggest don't exceed 4500 RPM to maintain a good compromise btw performances and efficiency.

Configuration examples

Since the Oxy 3 is a high performance 3D RC helicopter, we suggest using high quality power components including motor, battery and ESC. Remember the Oxy 3 is a 300 class heli - use light components to maximize flight time and performance. Here are some suggestions:

- Motor: Suggested KV 3000KV to 4500KV, 21-08 to 22-14 caliber series (stator diameter - stator length).

- Battery: 3 or 4S with capacity from 1300 to 1500mAh / 35C discharge rate. Maximum size: length 76mm, height 35mm, width 37mm, weight 180g.

- ESC: 35 to 40A - with BEC 6V or higher. Or use an external 5A BEC. The Oxy 3 Kit 002 comes with a 40A ESC, preset with 6V BEC and settings for the EOX 2214-4100KV motor.

- Cyclic servos: Standard MICRO size servo with metal gear - speed: =>0.06 sec/60 at 6V.

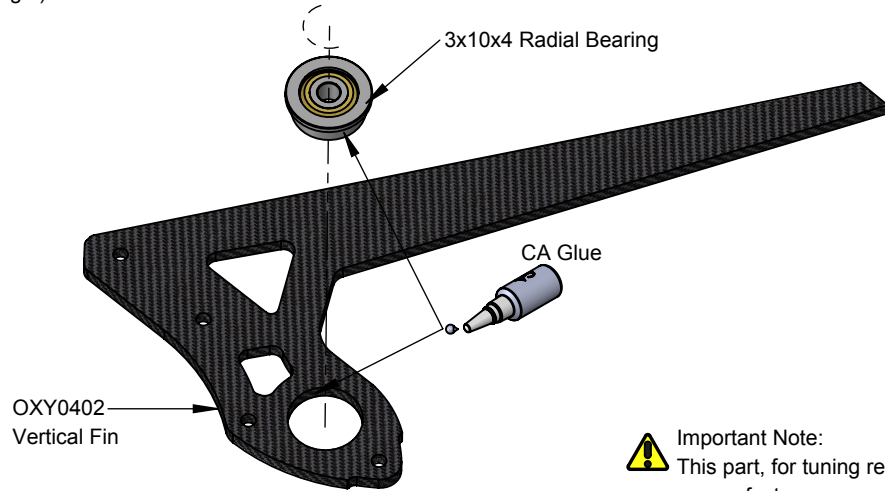
- Rudder servo: Standard MICRO size servo - speed =>0.06 sec/60 at 6V - a specific rudder servo is suggested for best tail authority.

- FBL system: The Oxy 3 was designed around the Ikon / Brain and Mini V-Bar Systems. But many other good quality FBL systems can be used, depending on your personal choice.

- Main blade: The Oxy 3 can fly with plastic or CF main blades from 245 to 255mm. Our testing was with Lynx 245mm plastic main blades, and Zeal 250mm and 255mm CF main blades. The Oxy 3 main grips use M2 clamp screw and have a 5.6mm root.

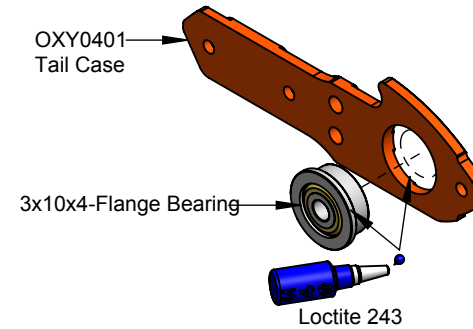
- Tail blades: The Oxy 3 uses our own OEM tail blades, either 47 or 50mm (included with the kit). They use a M2 clamp screw and 3.5 root. We offer 47 and 50mm tail blades to suit different head speeds. Use 50mm tail blades when your head speed is lower than 3500rpm and 47mm with higher head speeds.

Vertical Fin Assembly  
(box1/bag 1)



**⚠ Important Note:**  
This part, for tuning reasons,  
comes factory pre assembled,  
it ready to us

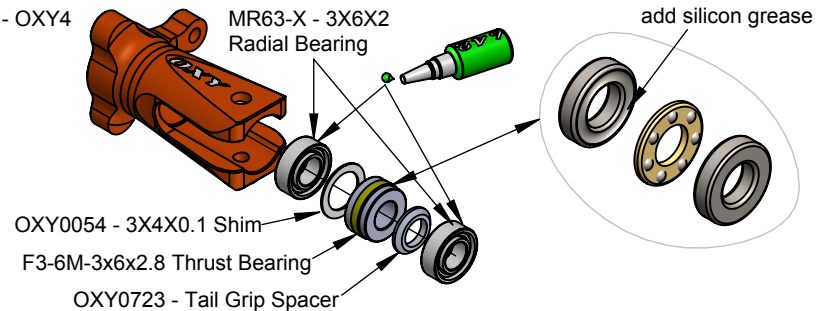
Tail Case Assembly  
(box1/bag 1)



**⚠ Important Note:**  
This part, for tuning reasons,  
comes factory pre assembled,  
it ready to us

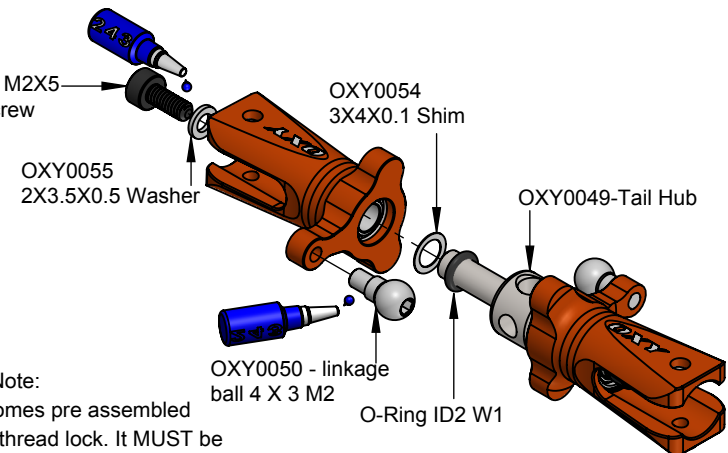
Tail Rotor Assembly  
(box1/bag 2)

OXY0710 - OXY4  
Tail Grip



**⚠ Important Note:**  
This part, for tuning reasons,  
comes factory pre assembled,  
it ready to us

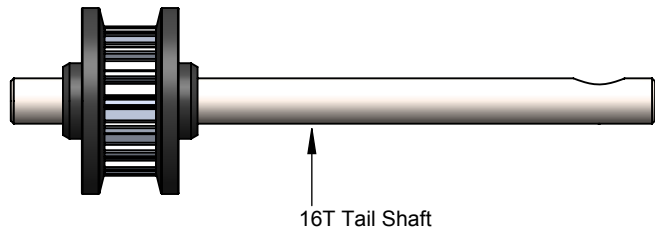
TCEM2X5 - M2X5  
Hex Cap Screw



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

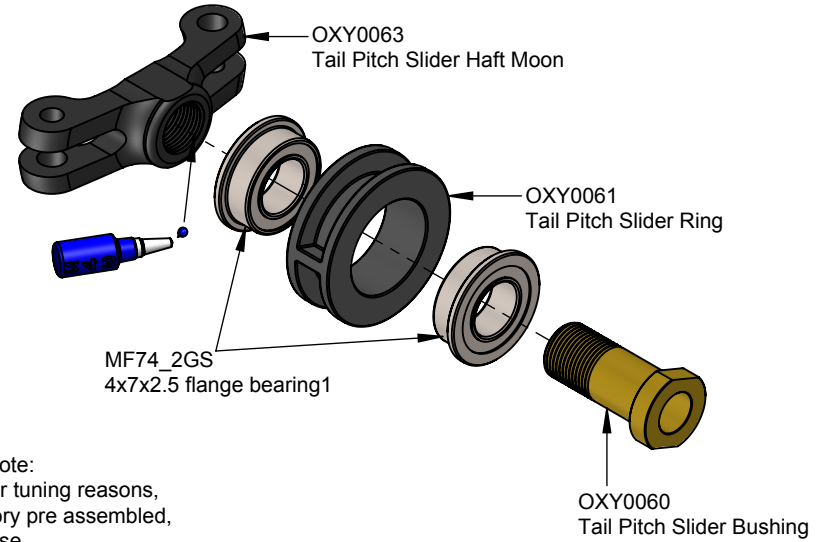


Tail Shaft Assembly  
(box1/bag 3)

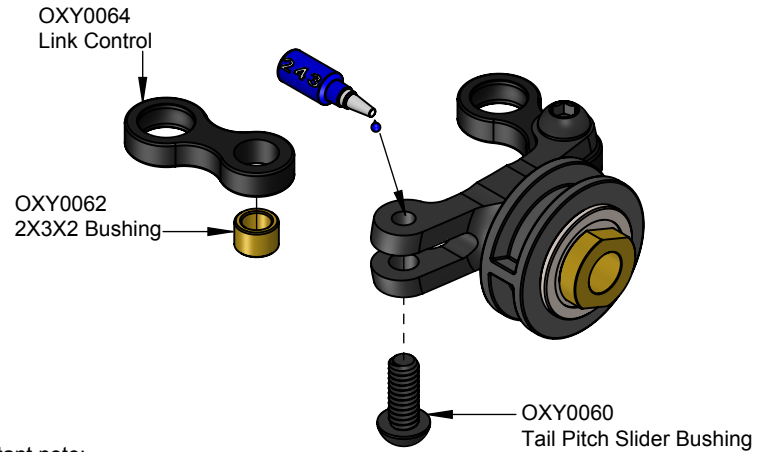


**⚠ Important Note:**  
This part, for tuning reasons,  
comes factory pre assembled,  
it ready to use.

Tail Pitch Slider Assembly  
(box1/bag 4)

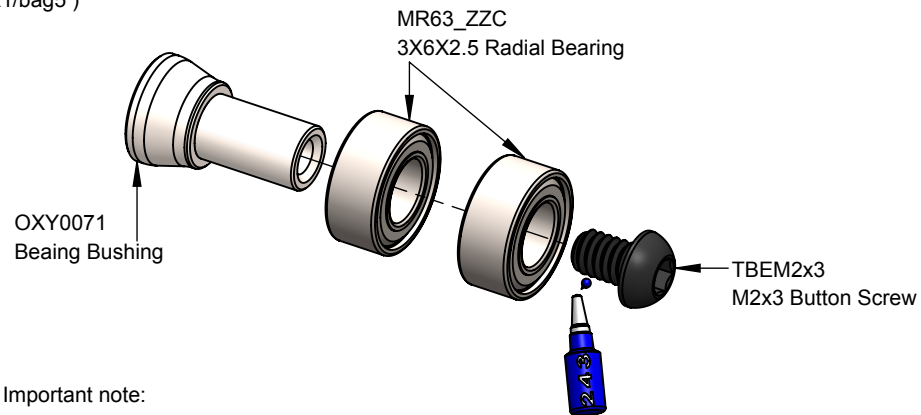


**⚠ Important Note:**  
This part, for tuning reasons,  
comes factory pre assembled,  
it ready to use.



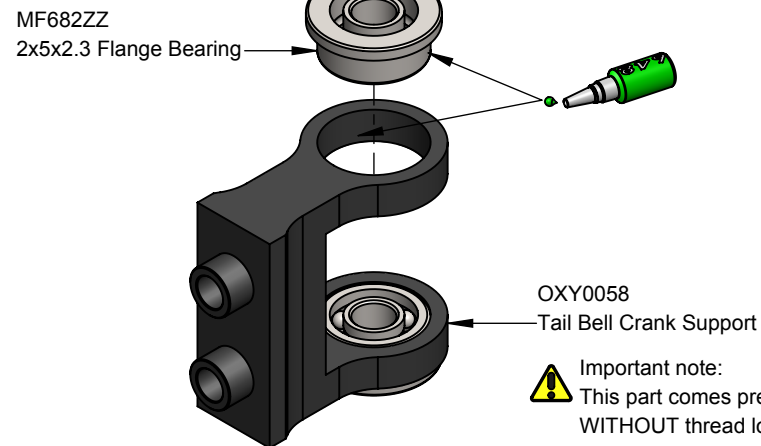
**⚠ Important note:**  
This part comes pre assembled  
WITHOUT thread lock. It MUST be  
re-assembled with thread lock as shown.

Tail Belt Tensioner Assembly  
( box1/bag5 )



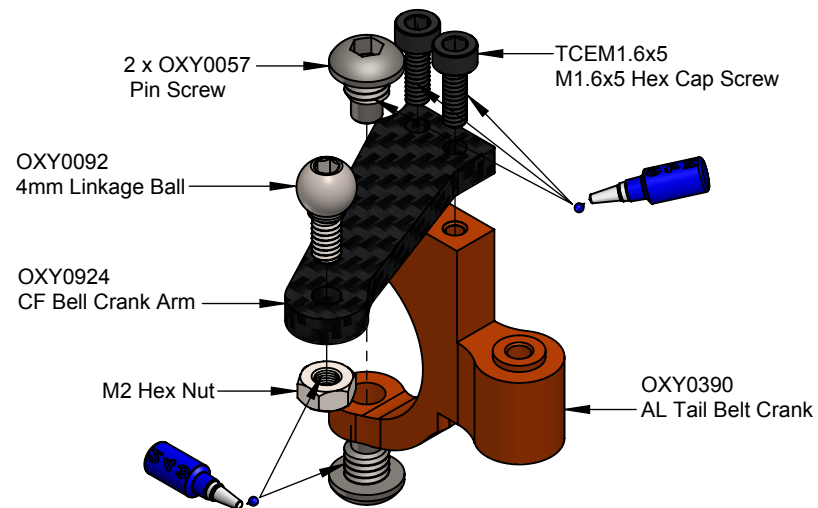
**⚠ Important note:**  
This part comes pre assembled  
WITHOUT thread lock. It MUST be  
re-assembled with thread lock as shown.

Tail Belt Crank Support Assembly  
( box1/bag5 )

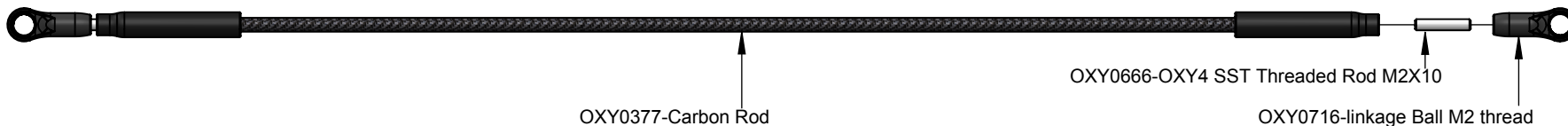


**⚠ Important note:**  
This part comes pre assembled  
WITHOUT thread lock. It MUST be  
re-assembled with thread lock as shown.



Tail Belt Crank Assembly  
( box1/bag5 )

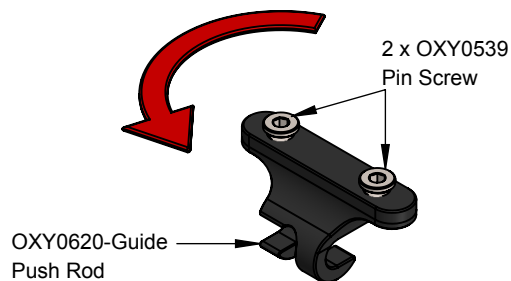


**⚠ Important note:**  
This part comes pre assembled  
WITHOUT thread lock. It MUST be  
re-assembled with thread lock as shown.




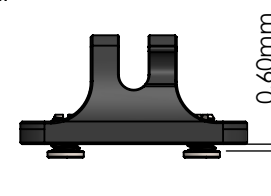
Step 1:

-  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



Step 2:

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



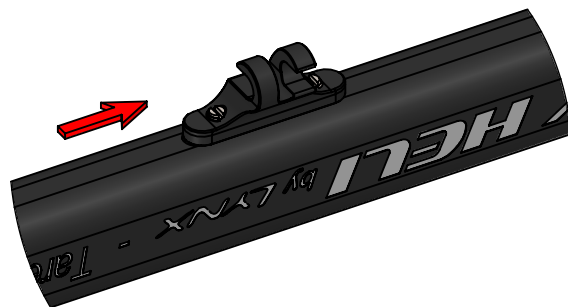
Step 3:

Push the part inside the boom sockets as shown



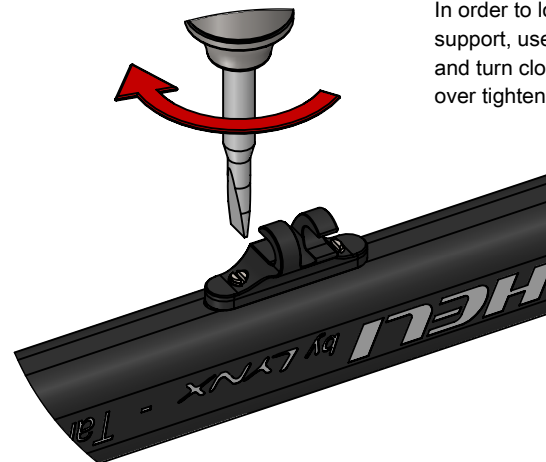
Step 4:


Slide the parts as shown

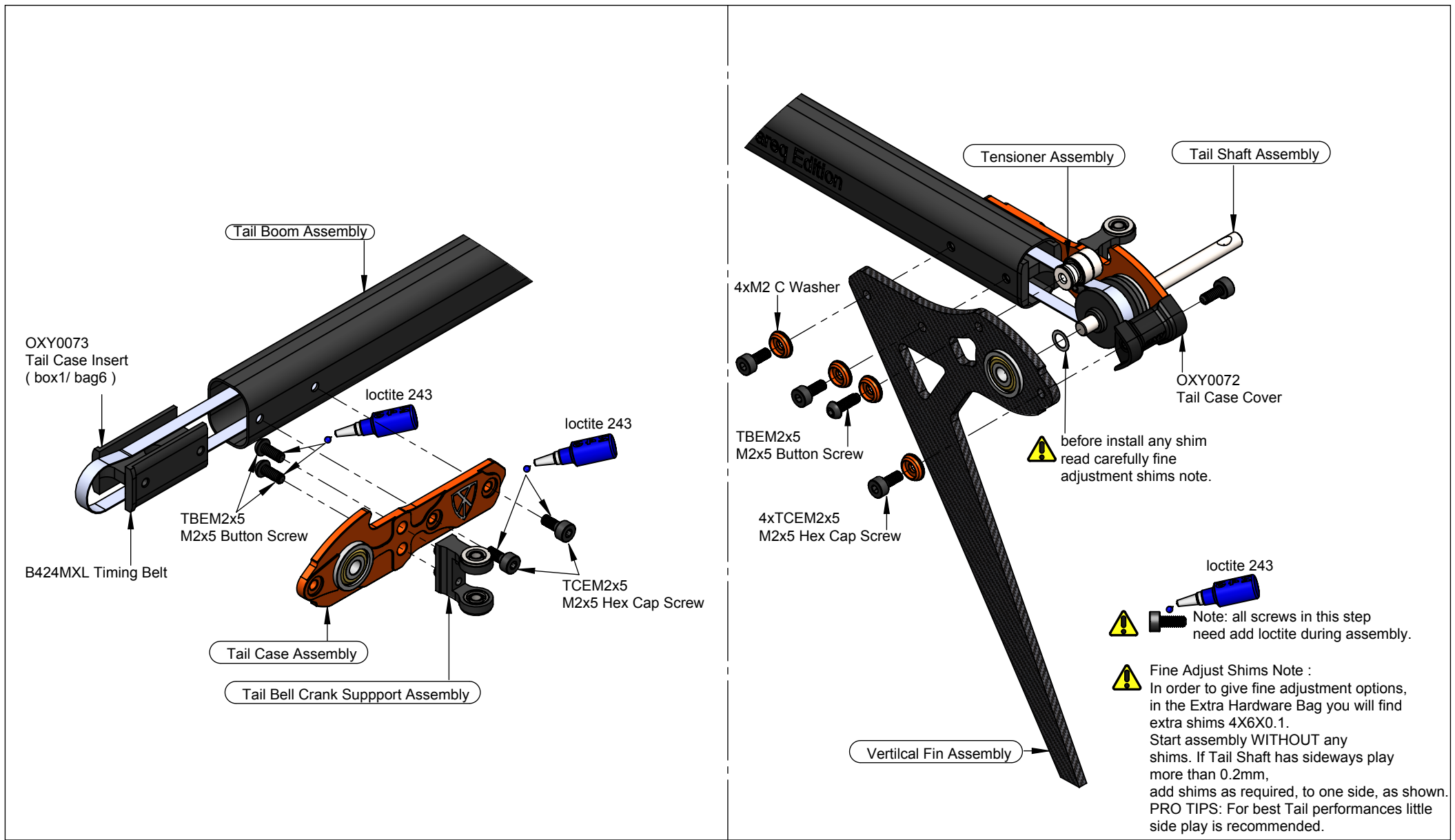


Step 5:

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 ready to use



OXY0073  
Tail Case Insert  
( box1/ bag6 )

Tail Boom Assembly

loctite 243

loctite 243

TBEM2x5  
M2x5 Button Screw

TCEM2x5  
M2x5 Hex Cap Screw

B424MXL Timing Belt

Tail Case Assembly

Tail Bell Crank Support Assembly

Tensioner Assembly

Tail Shaft Assembly

4xM2 C Washer

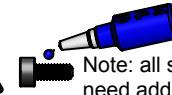
TBEM2x5  
M2x5 Button Screw

4xTCEM2x5  
M2x5 Hex Cap Screw

OXY0072  
Tail Case Cover

⚠ before install any shim  
read carefully fine  
adjustment shims note.

loctite 243

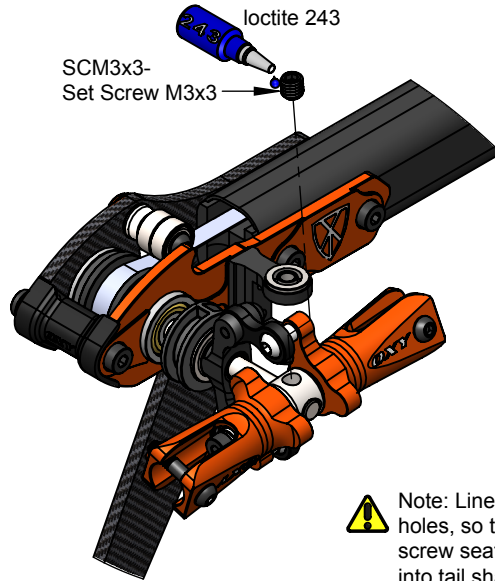
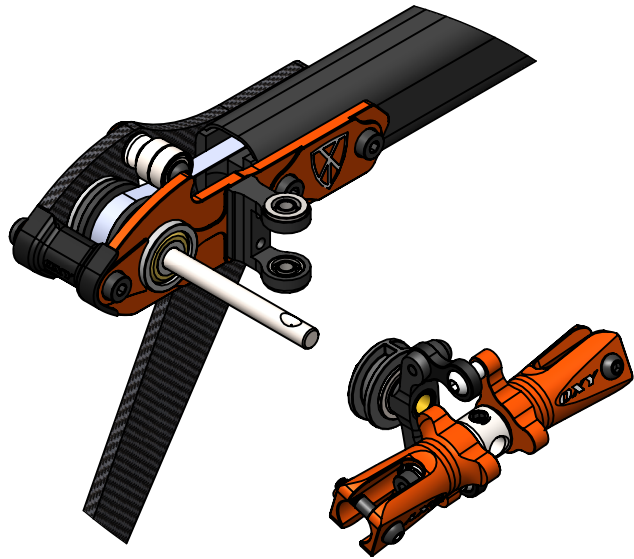


Note: all screws in this step  
need add loctite during assembly.

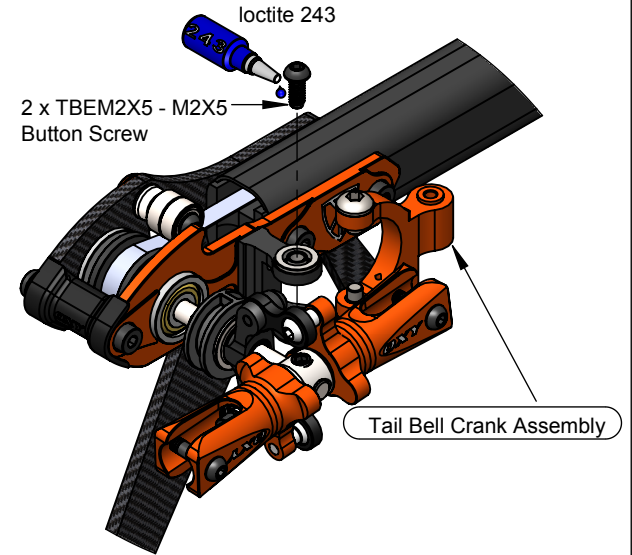


Fine Adjust Shims Note :  
In order to give fine adjustment options,  
in the Extra Hardware Bag you will find  
extra shims 4X6X0.1.  
Start assembly WITHOUT any  
shims. If Tail Shaft has sideways play  
more than 0.2mm,  
add shims as required, to one side, as shown.  
PRO TIPS: For best Tail performances little  
side play is recommended.


Vertical Fin Assembly

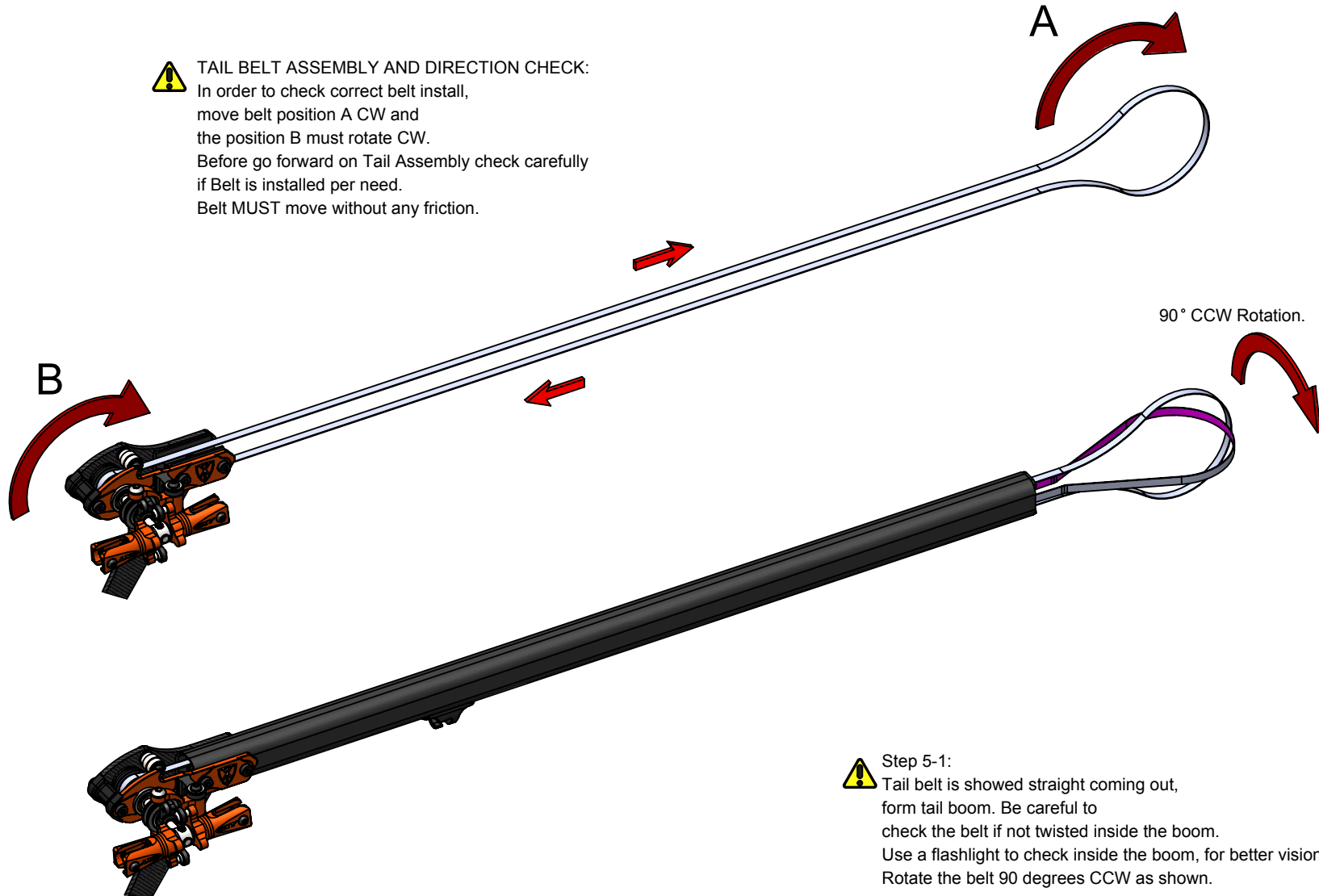



**⚠ Note:** Line up the holes, so the set screw seats correctly into tail shaft lock hole.




OXY0389  
AL Tail Servo Mount  
( box1/bag7 )

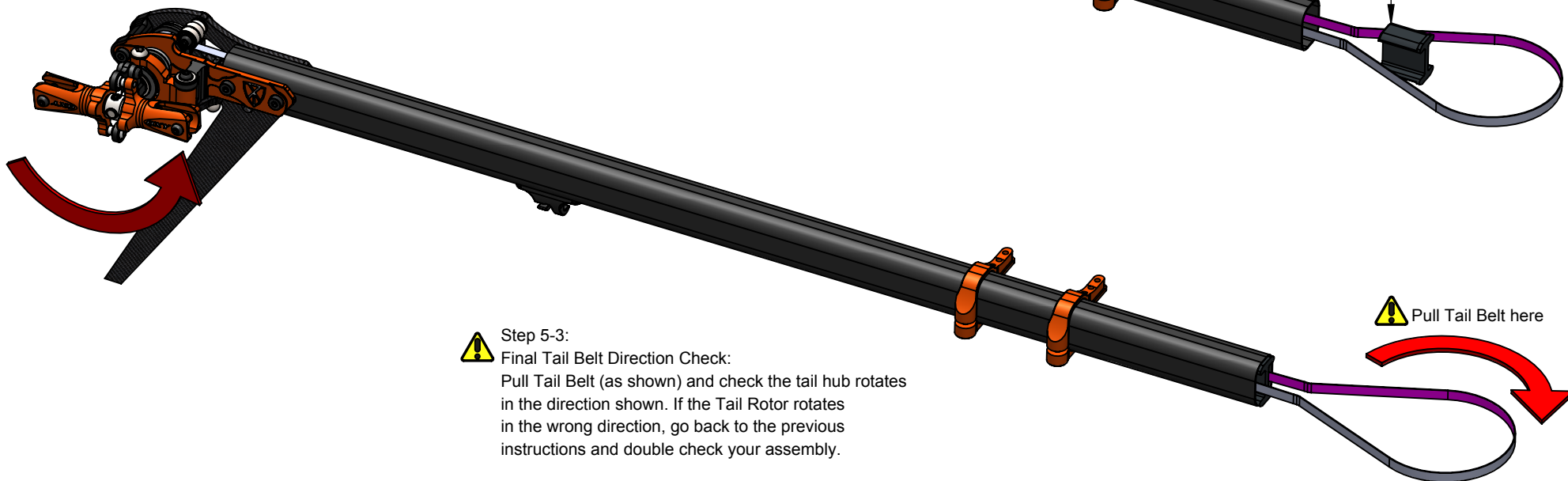
 **TAIL BELT ASSEMBLY AND DIRECTION CHECK:**  
 In order to check correct belt install,  
 move belt position A CW and  
 the position B must rotate CW.  
 Before go forward on Tail Assembly check carefully  
 if Belt is installed per need.  
 Belt MUST move without any friction.



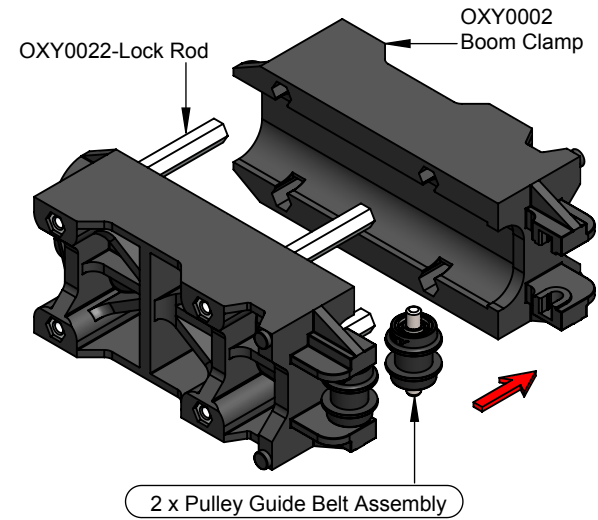
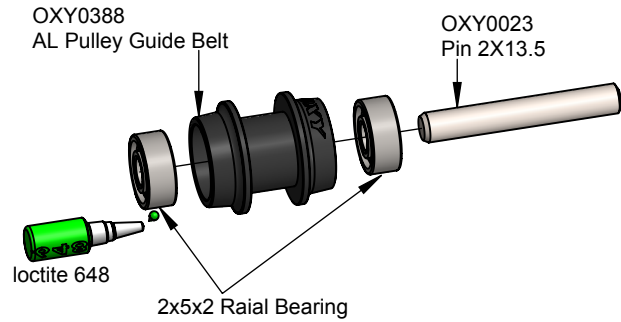
 **Step 5-1:**  
 Tail belt is showed straight coming out,  
 form tail boom. Be careful to  
 check the belt if not twisted inside the boom.  
 Use a flashlight to check inside the boom,  
 for better vision.  
 Rotate the belt 90 degrees CCW as shown.

Step 5-2:  
Hold carefully Tail Belt as showed and insert  
Front Boom Insert.A

 OXY0752-Front  
Boom Insert  
(Box 3/Bag )  
Press in this insert parts into  
Tail Boom to help Tail Belt  
doesn't twist in the next  
installation step

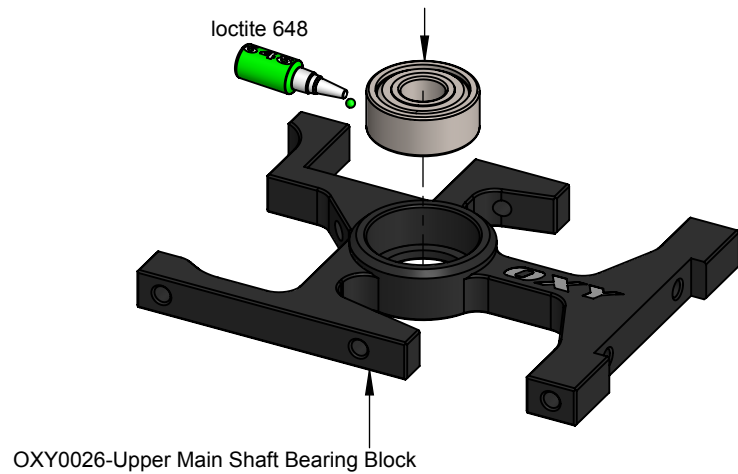


Boom Clamp Assembly  
( box1/bag8)

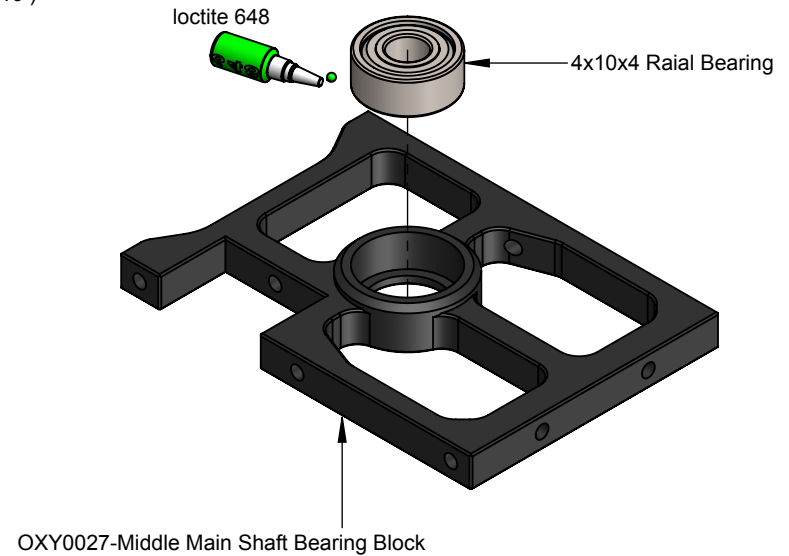


Install the Pins into the Pulley Guides and press completely into the Tail Boom Clamp Socket Lips

Upper Bearing Block Assembly  
( box1/bag9 )

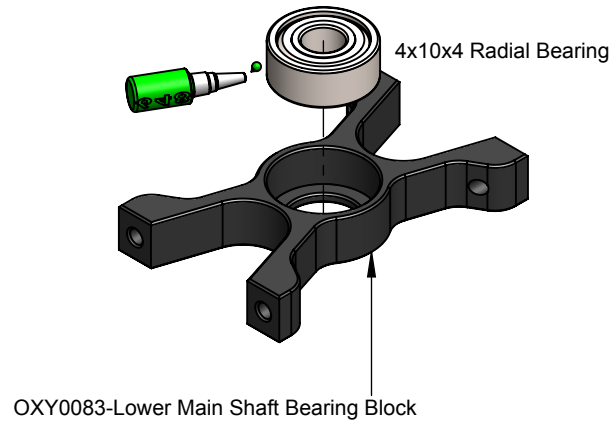


Middle Bearing Block Assembly  
(box1/bag 10 )

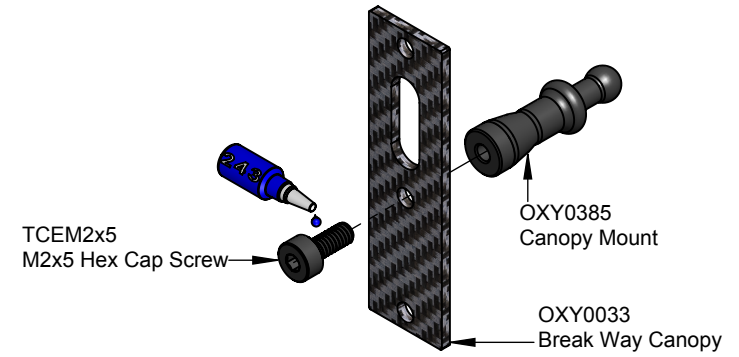




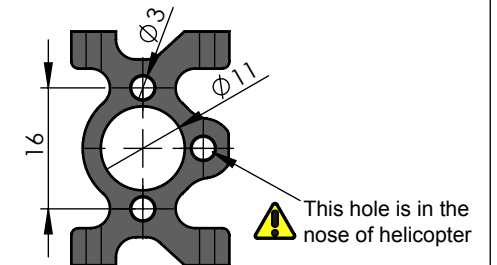
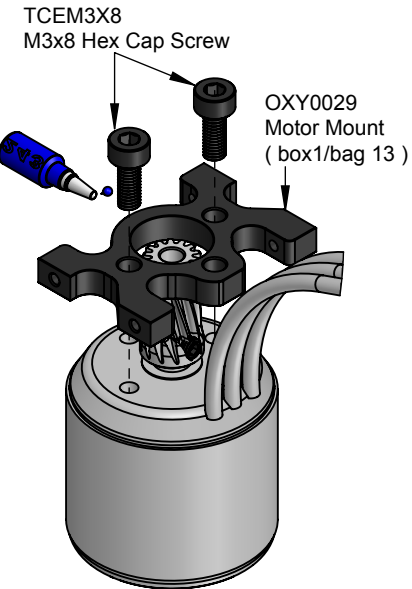
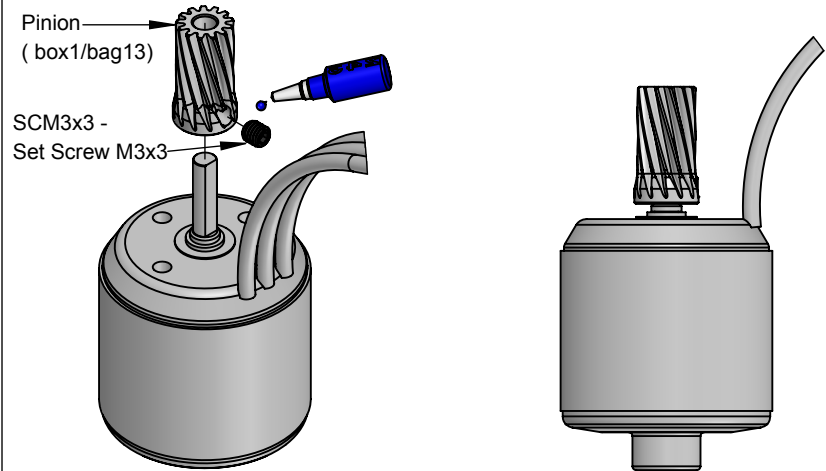
Lower Main Shaft Bearing Block  
( box1/ bag 11 )

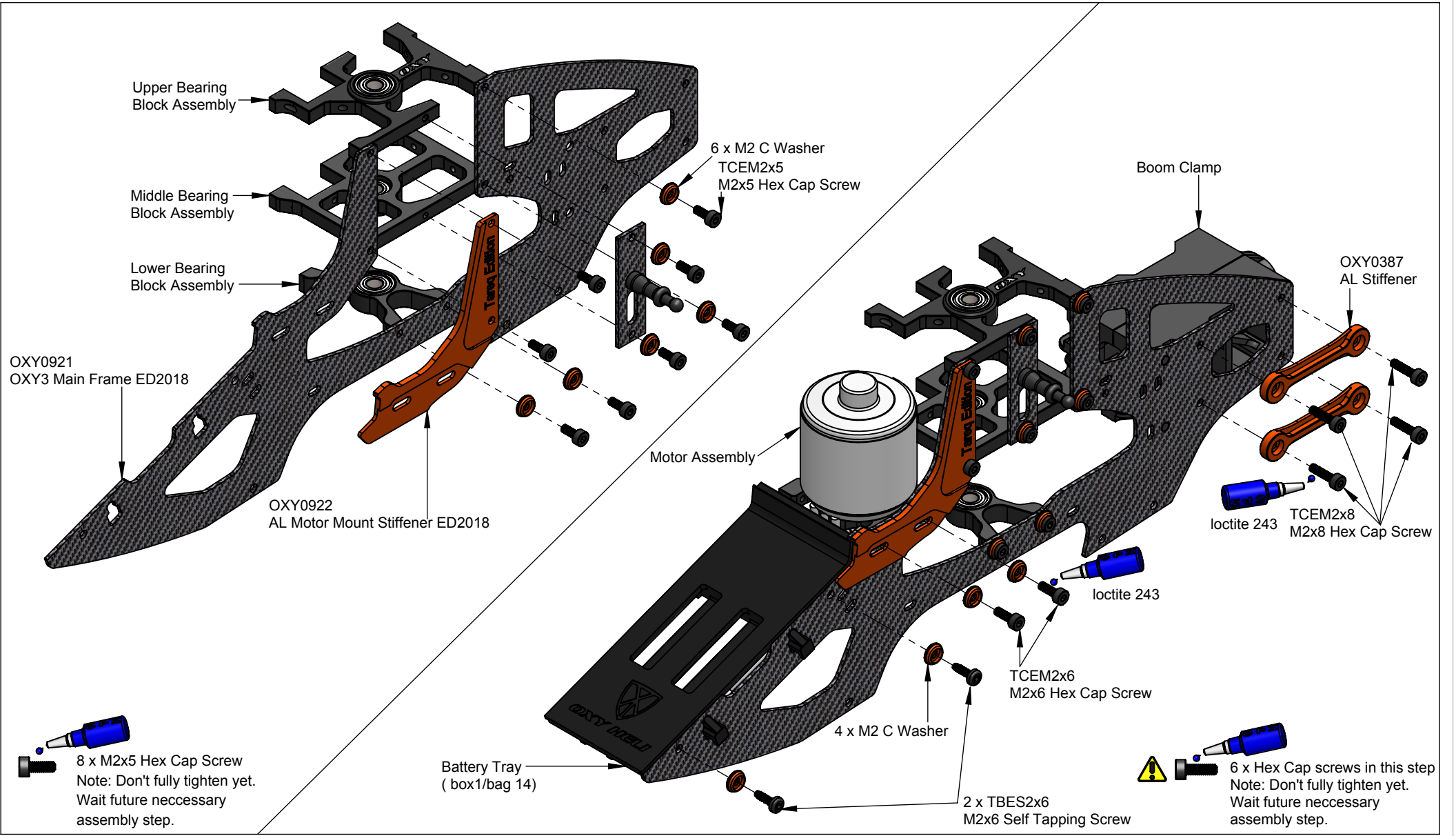


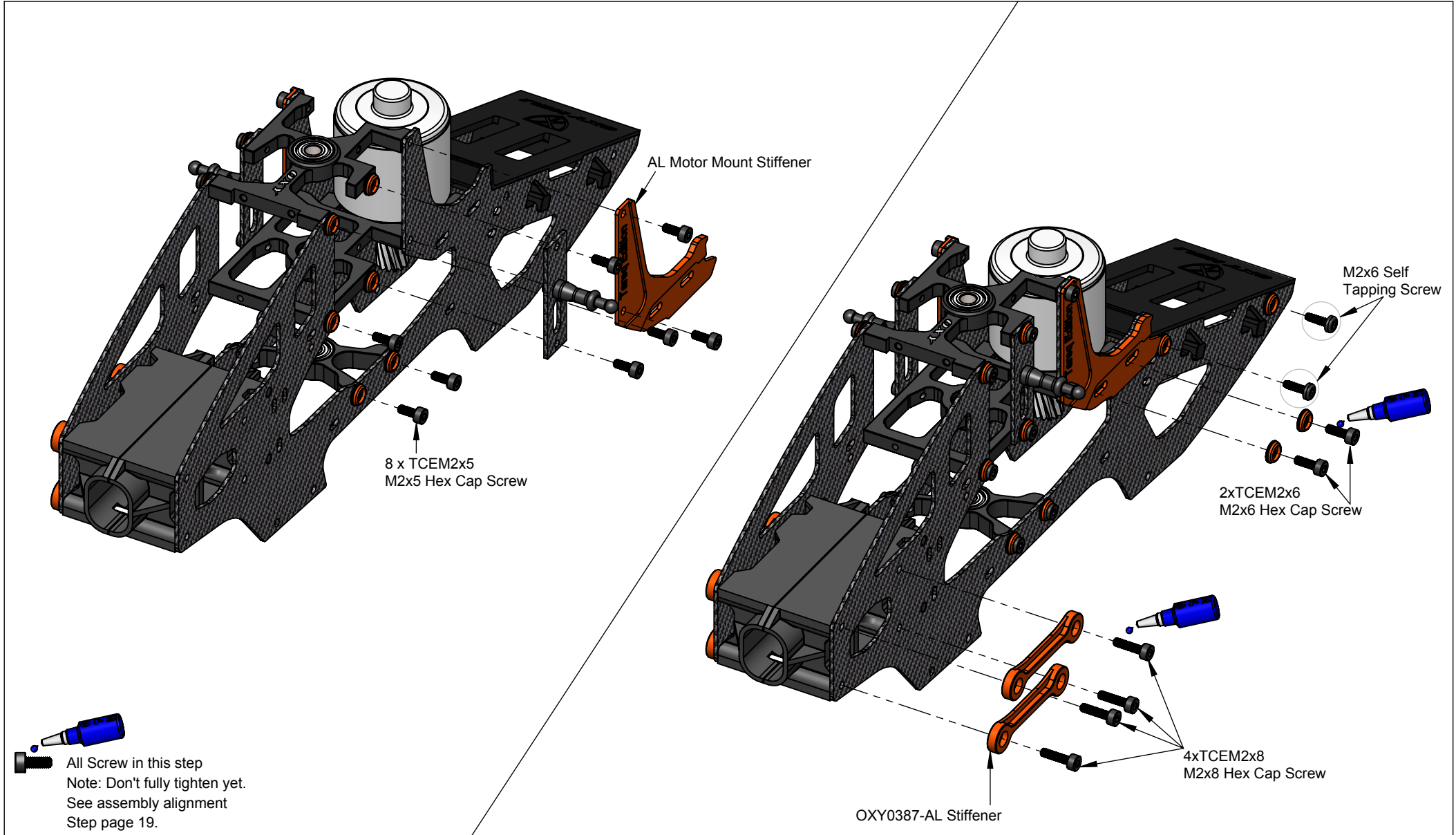
Break Away Canopy Assembly  
( box1/bag 12 )




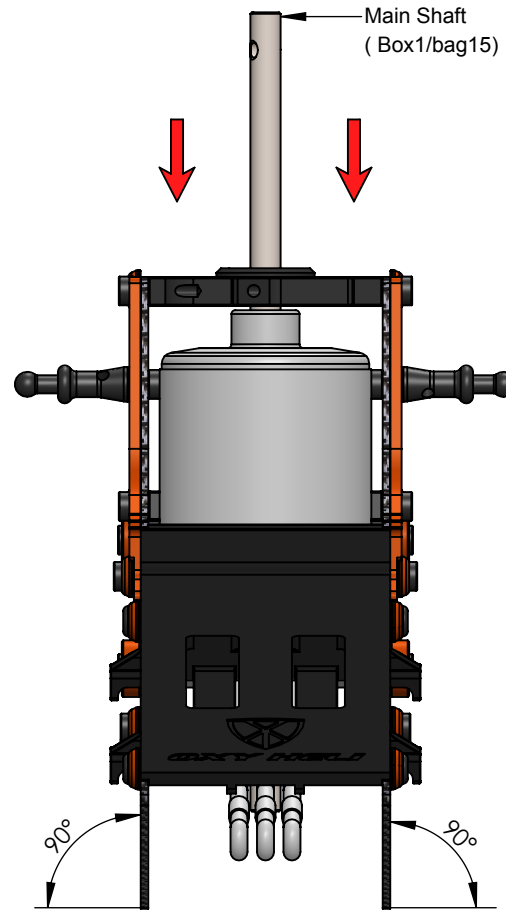
Motor Assembly  
( box1/bag 13 )



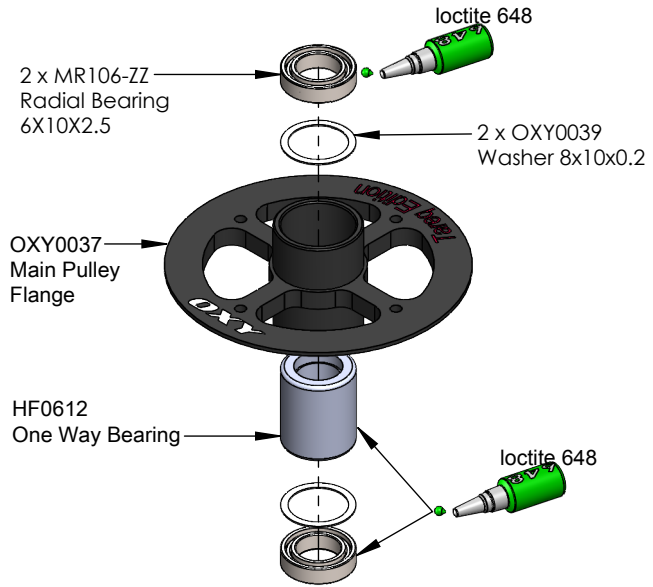





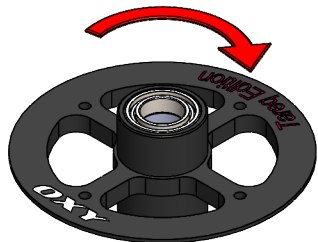
 Install main shaft with frame assembly on a flat surface, push down on both frames together and then fully tighten all M2 Hex Cap Screws (x16) holding the bearing blocks.




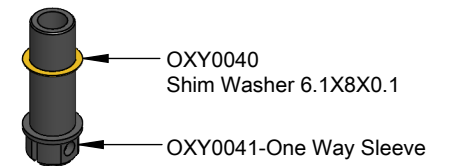
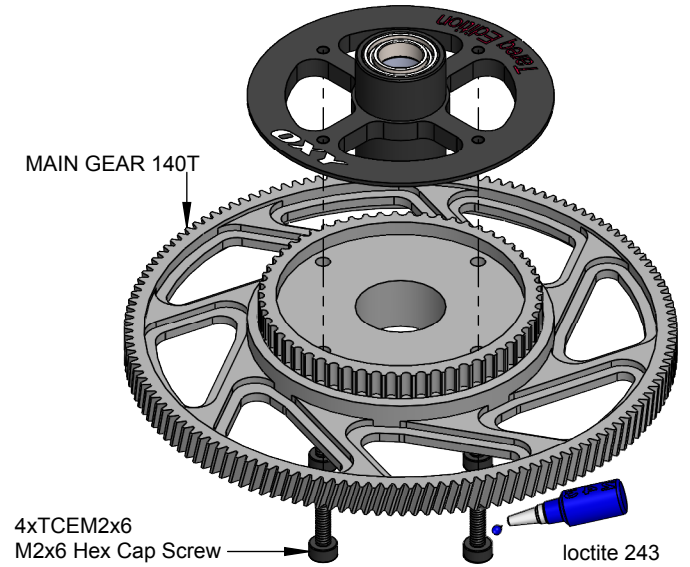
Main Gear Assembly  
( box1/bag16 )

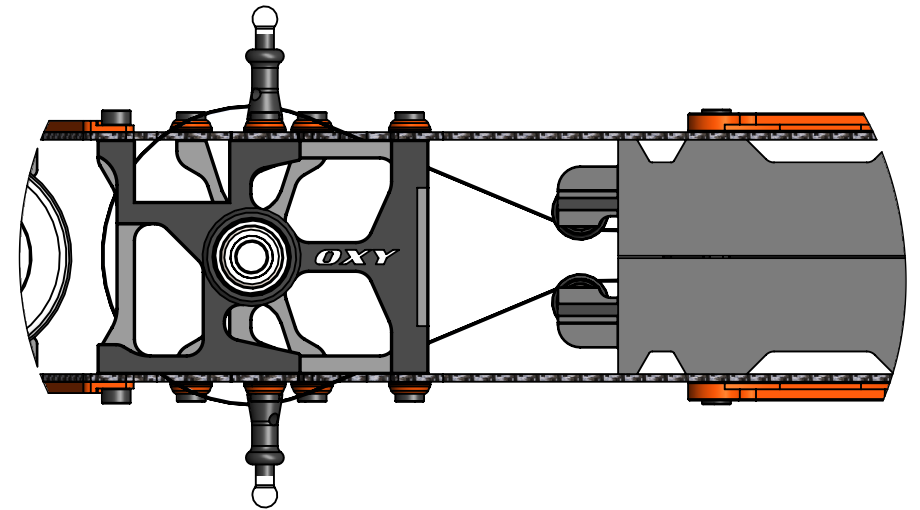
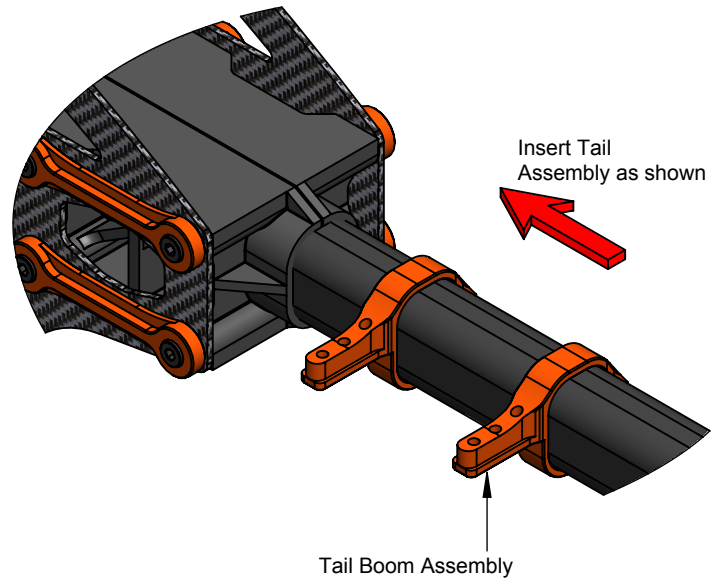



 Note: use one way sleeve to check the rotation direction of the one way bearing as shown



 Important Note:  
This part, for tuning reasons, comes factory pre assembled with grease and loctite. It is ready to use.

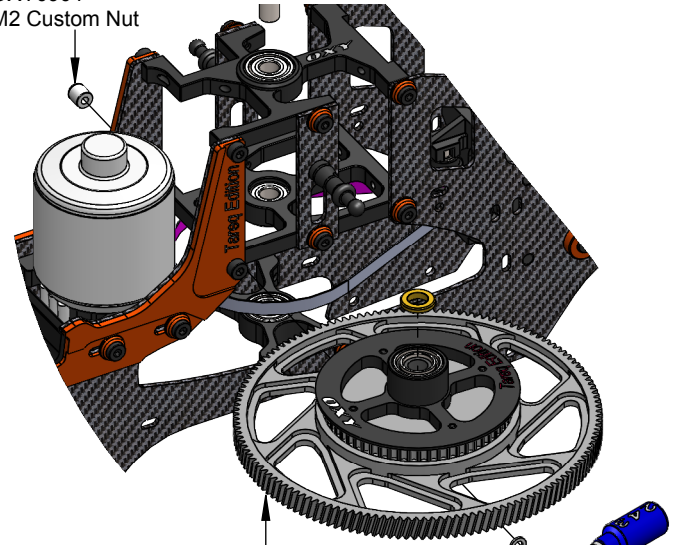




 Before next assembly step check carefully Tail Belt assembly position as shown



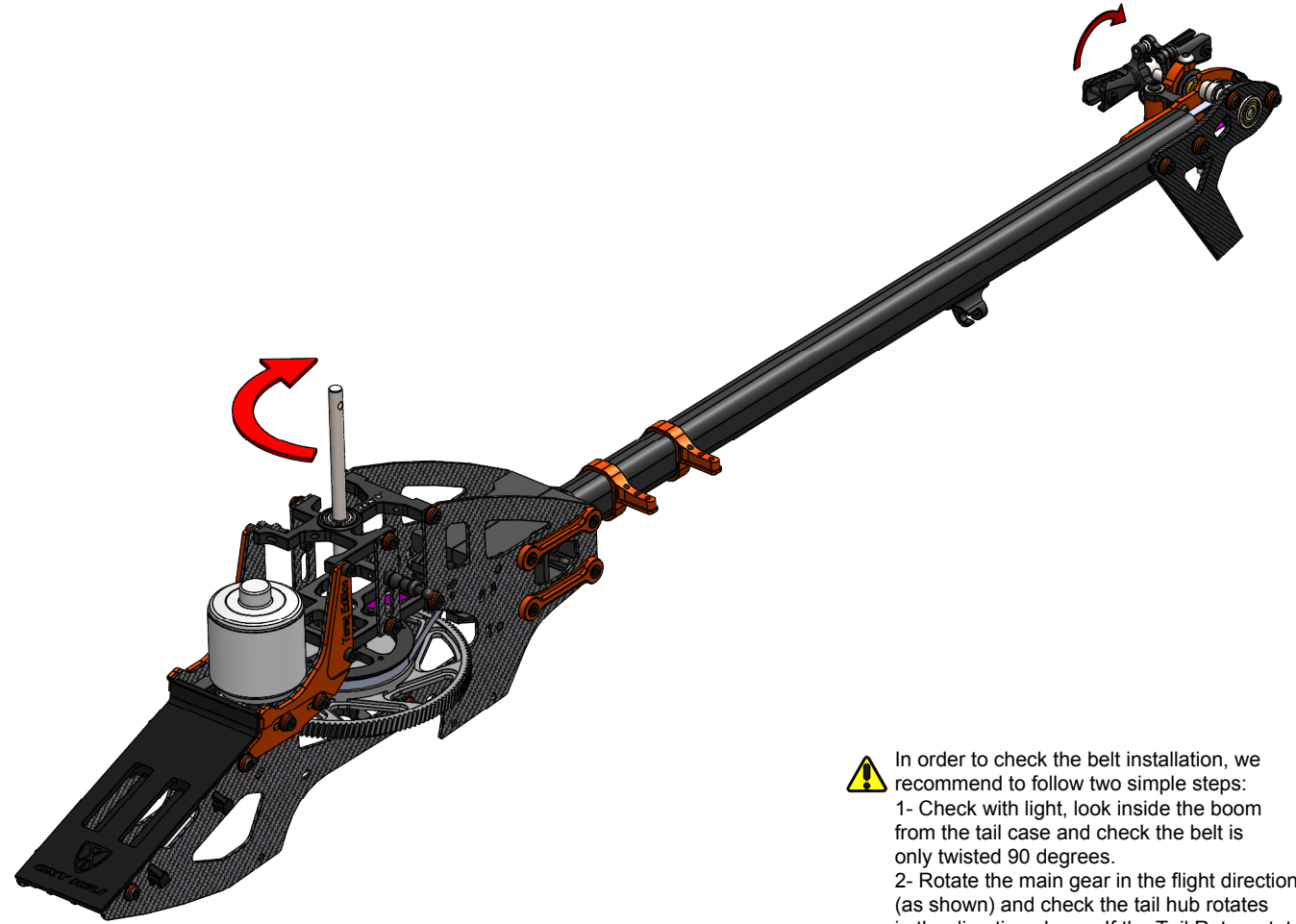
OXY0904  
M2 Custom Nut




Main Gear Assembly

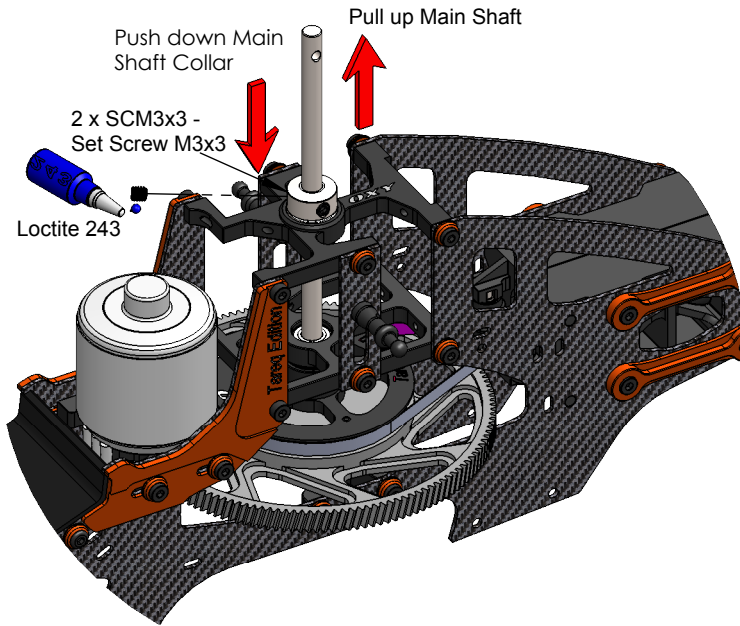
OXY0055  
2X3.5X0.5 Washer

OXY0076  
M2x10 Shoulder Screw

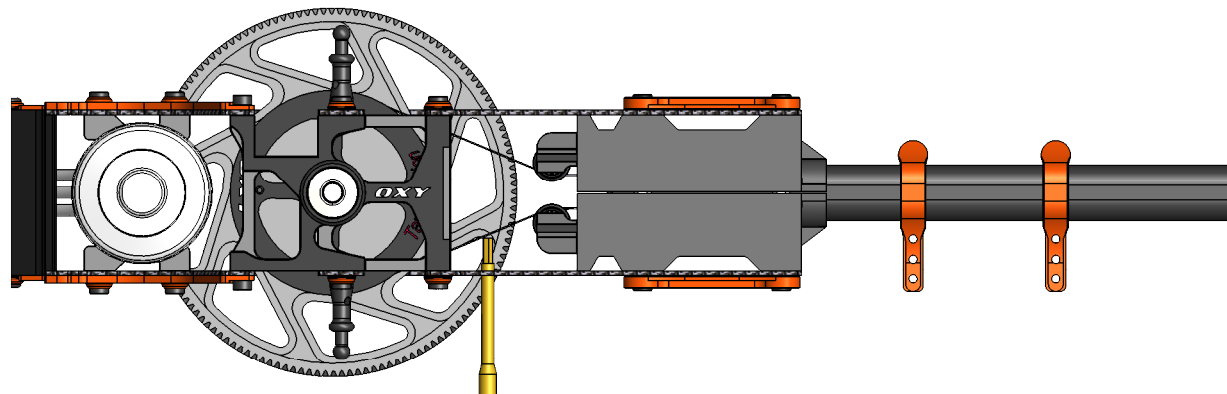
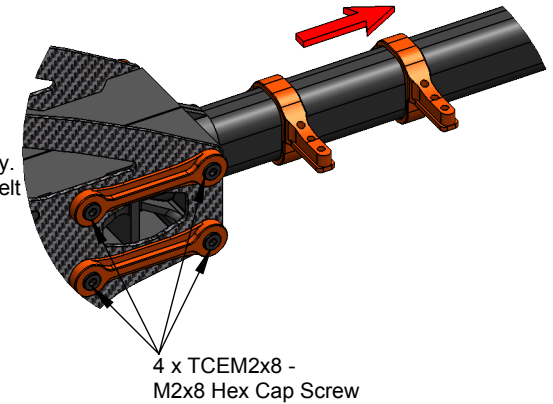


 In order to check the belt installation, we recommend to follow two simple steps:

- 1- Check with light, look inside the boom from the tail case and check the belt is only twisted 90 degrees.
- 2- Rotate the main gear in the flight direction (as shown) and check the tail hub rotates in the direction shown. If the Tail Rotor rotates in the wrong direction, go back to previous instructions and double check your assembly



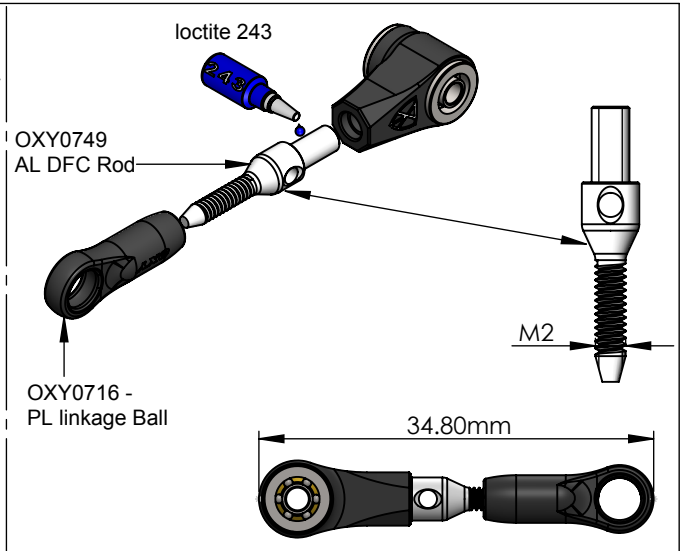
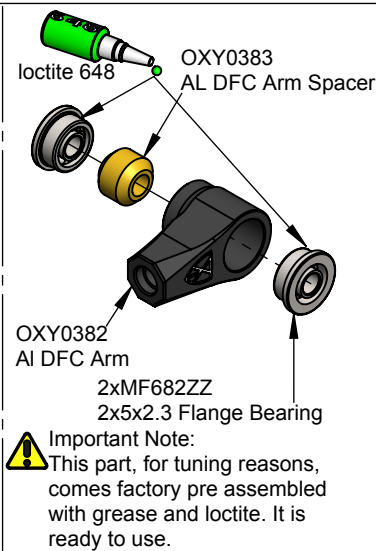
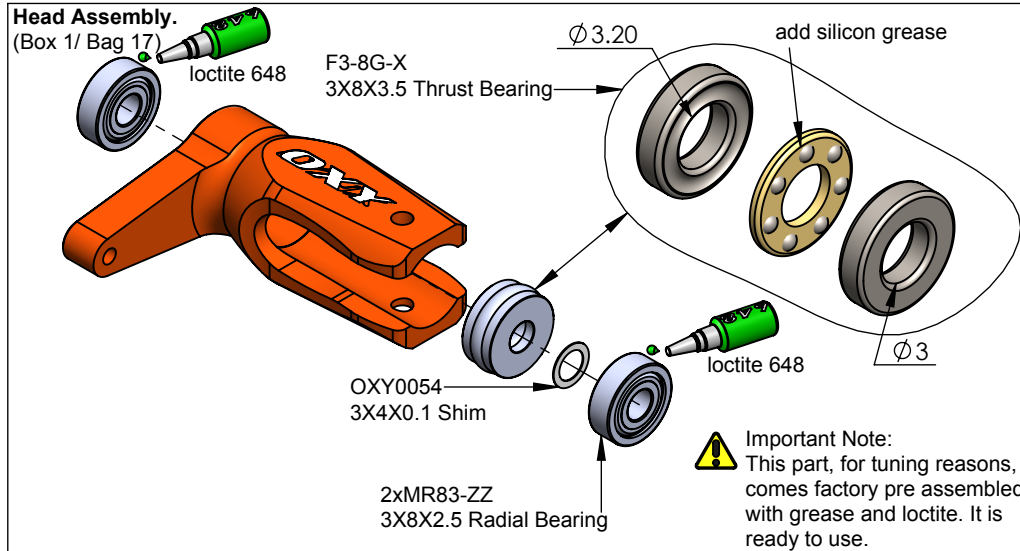
- Be sure the boom is assembled and installed correctly.
- Loosen the tail boom by loosening the eight M2.5x8 Hex Cap Screws.
- Adjust the Belt tension by pulling on the Tail Boom.
- Tighten the eight M2.5x8 Hex Cap Screws.
- The belt must have good tension. We suggest re-checking after a few flights. 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



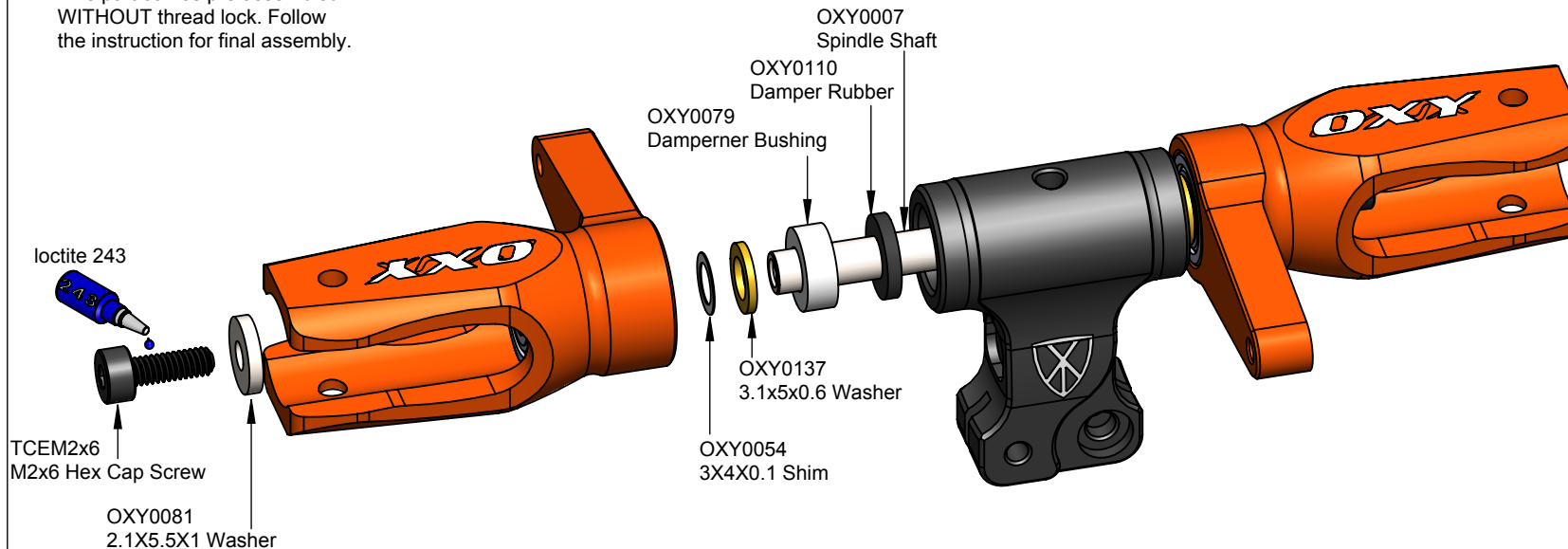
- ⚠ Use a Screw Driver to check Belt Tension (suggested max deflection is 1mm)
- Note: We recommend a tight Belt tension.
- If spool up get difficult, may Tail Belt is over tight, recheck and eventually loose Belt tension little bit
- Check the Belt tension again after the first 2 flights.
- With a new 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".



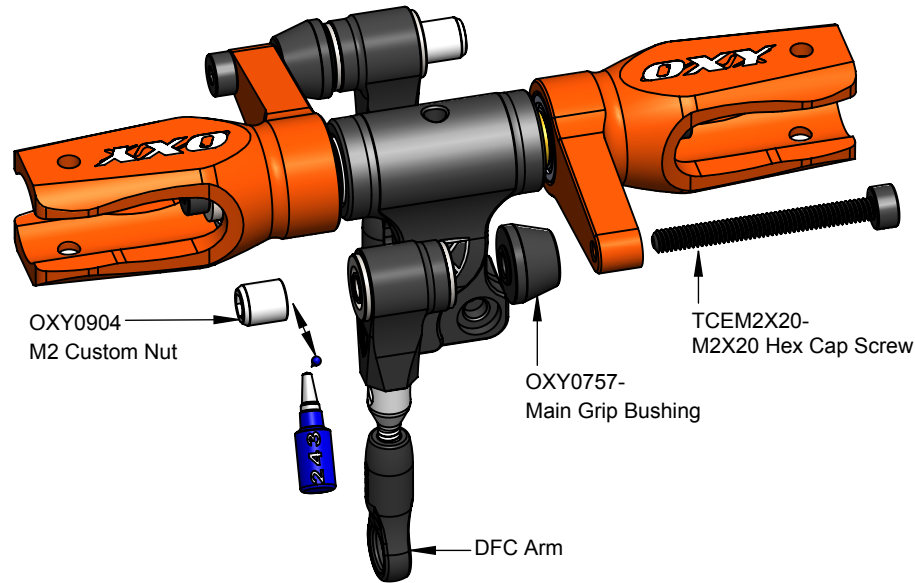
**Head Assembly.**  
(Box 1/ Bag 17)



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



**Important Note:**  
Fine Adjust Shims:  
In order to give fine adjustment options, the extra Hardware Bag contains extra Shims 3x4x0.1. Start assembly with one (each side) pre installed shim. If the Main Grips have sideways 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

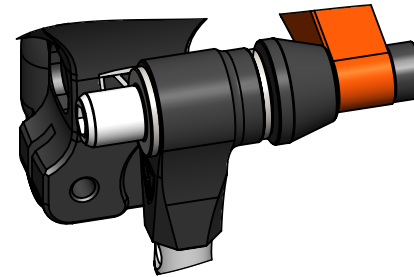


OXY0904  
M2 Custom Nut

OXY0757-  
Main Grip Bushing

TCEM2X20-  
M2X20 Hex Cap Screw

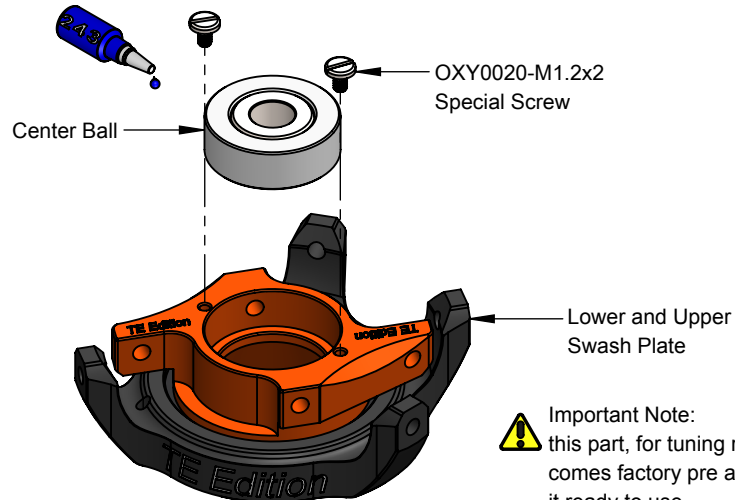
DFC Arm



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

**⚠** Once you finish assembly, ensure the DFC  
Arms can rotate without friction. If the DFC  
Arms are assembled correctly, rotation  
should be smooth and without friction. In  
case of any friction, recheck each  
component and re-assembly as necessary.

Swash Plate Assembly  
( Box1/Bag18 )

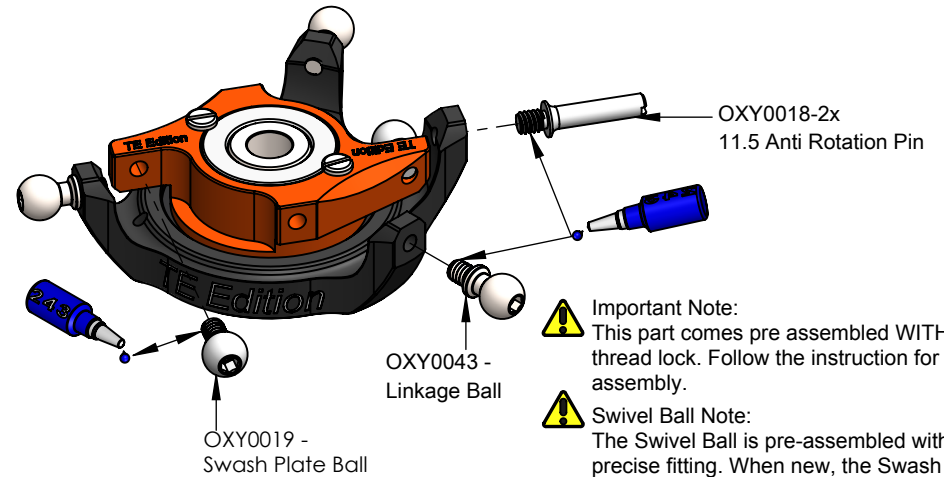


Center Ball

OXY0020-M1.2x2  
Special Screw

Lower and Upper  
Swash Plate

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



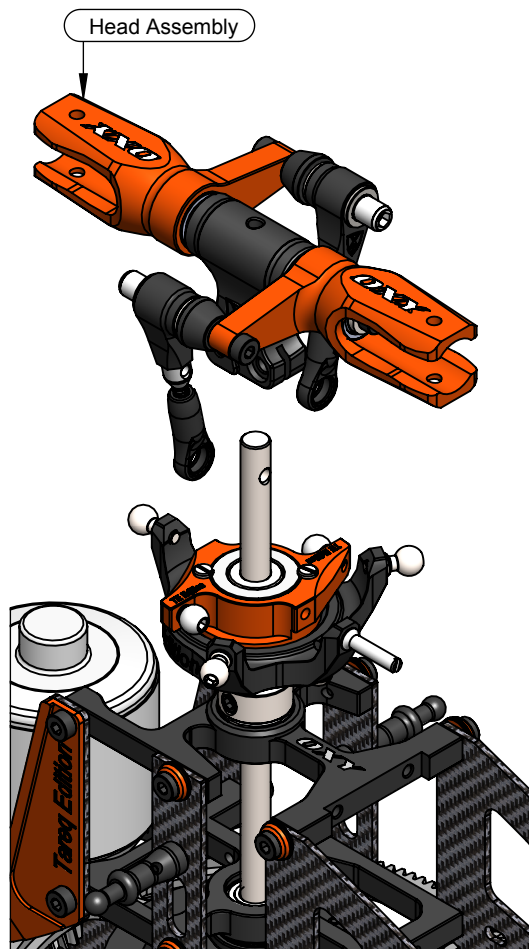
OXY0018-2x  
11.5 Anti Rotation Pin

OXY0043 -  
Linkage Ball

OXY0019 -  
Swash Plate Ball

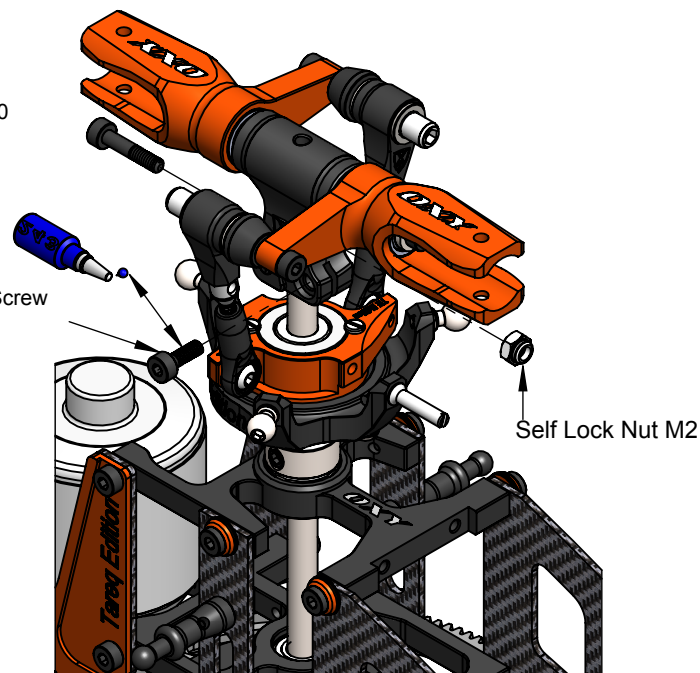
**⚠ Important Note:**  
This part comes pre assembled WITHOUT  
thread lock. Follow the instruction for final  
assembly.

**⚠ Swivel Ball Note:**  
The Swivel Ball is pre-assembled with a  
precise fitting. When new, the Swash Plate  
center ball will have a little friction. After a  
few flights and "break-in" it will come smooth,  
keeping the best precision without play.

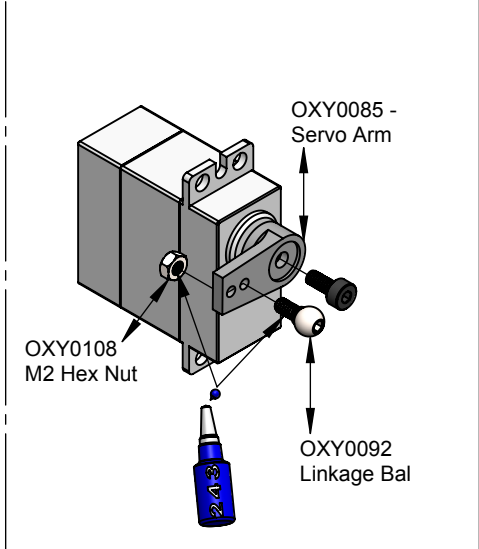
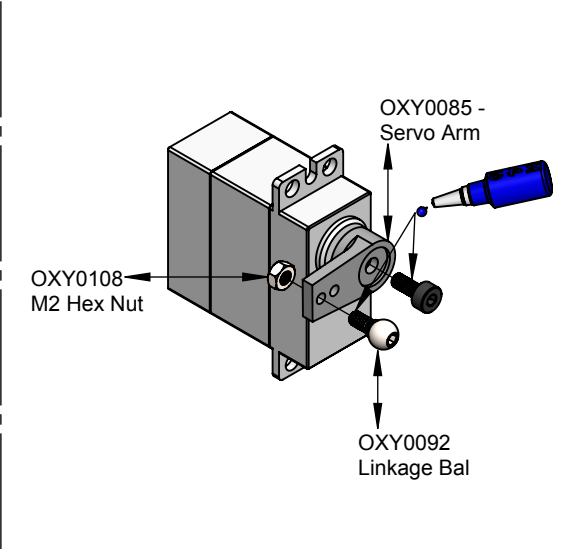
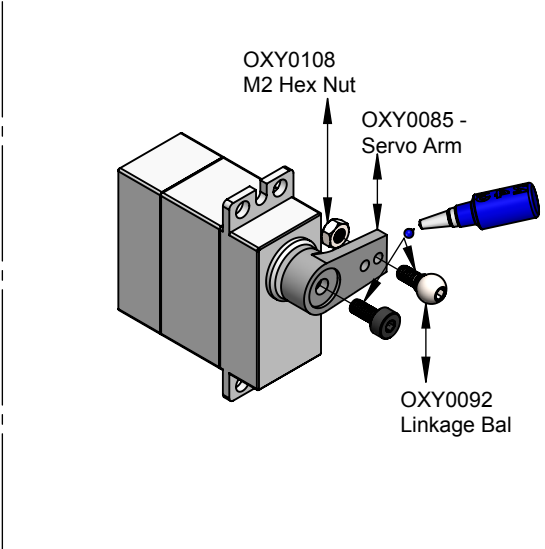
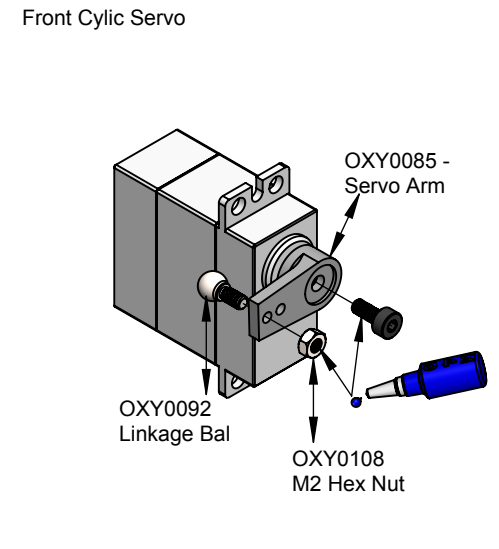
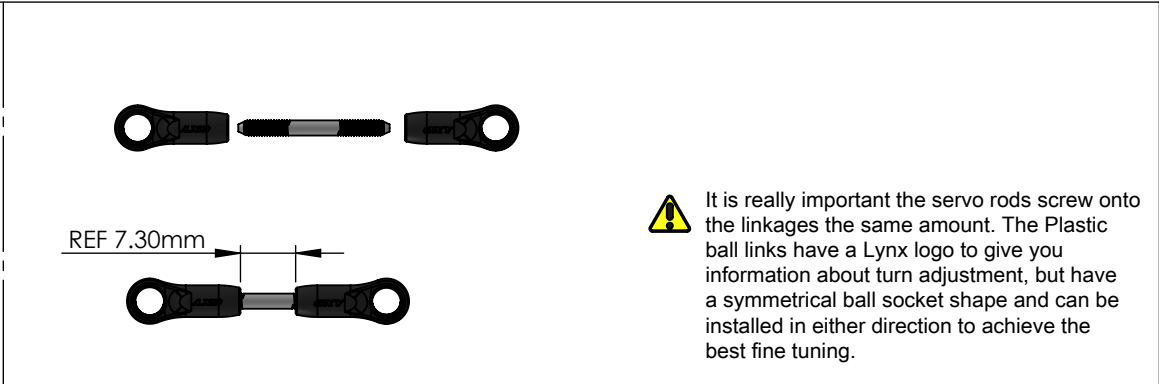
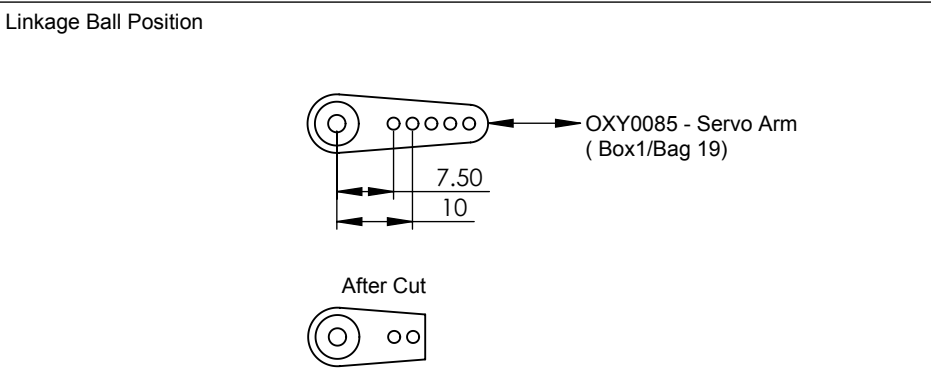


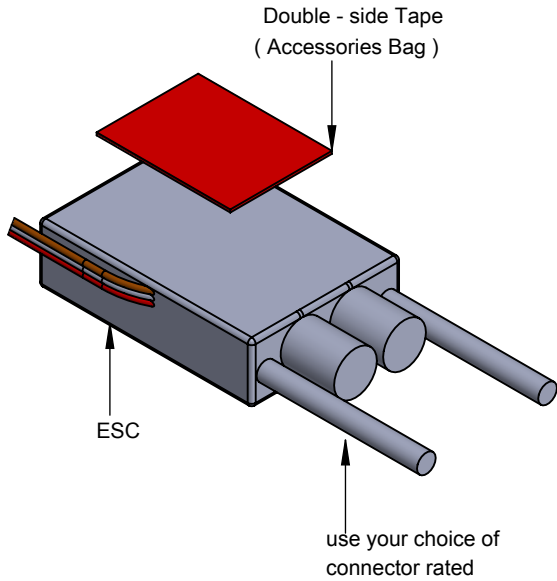
OXY0076-M2X10  
Shoulder Hex  
Cap Screw


TCEM2x6  
M2x6 Hex Cap Screw

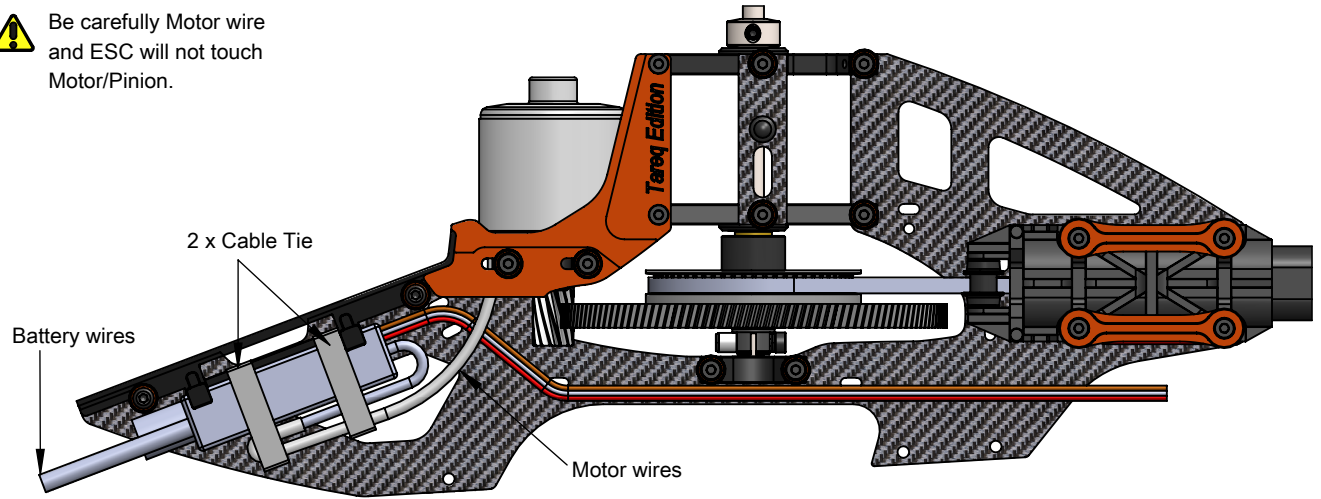



- You should now do some initial setup of your FBL unit and servos.
- We recommend you select a new model in your transmitter, and reset your FBL unit and start with a clean setup in it as well.
- After binding your transmitter to the receiver system used with the FBL unit, work your way through the 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.

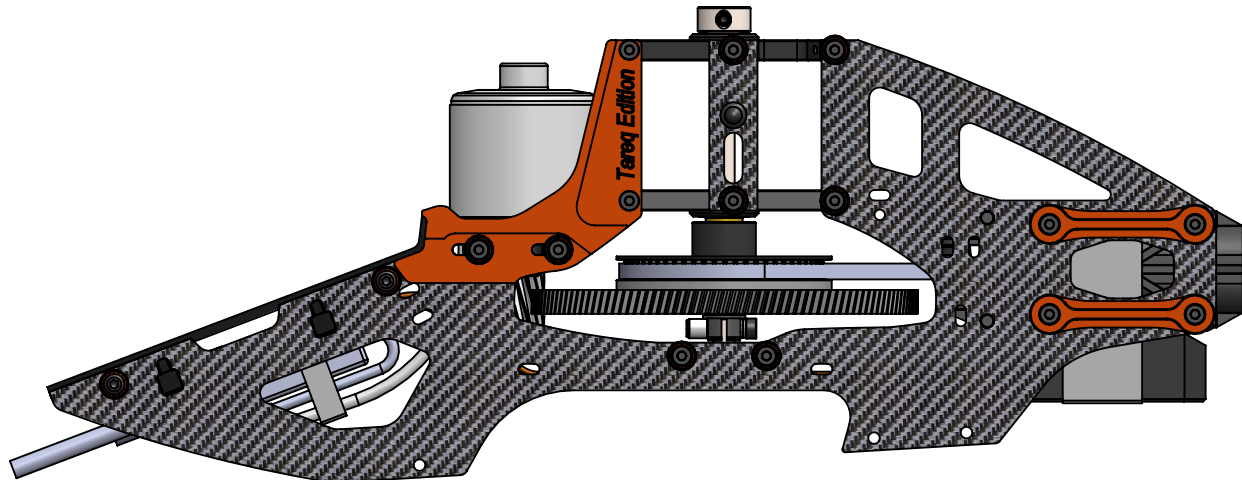


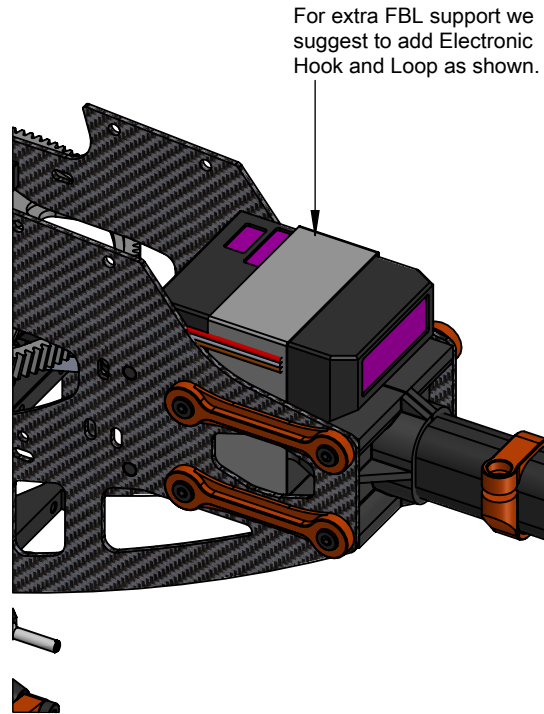
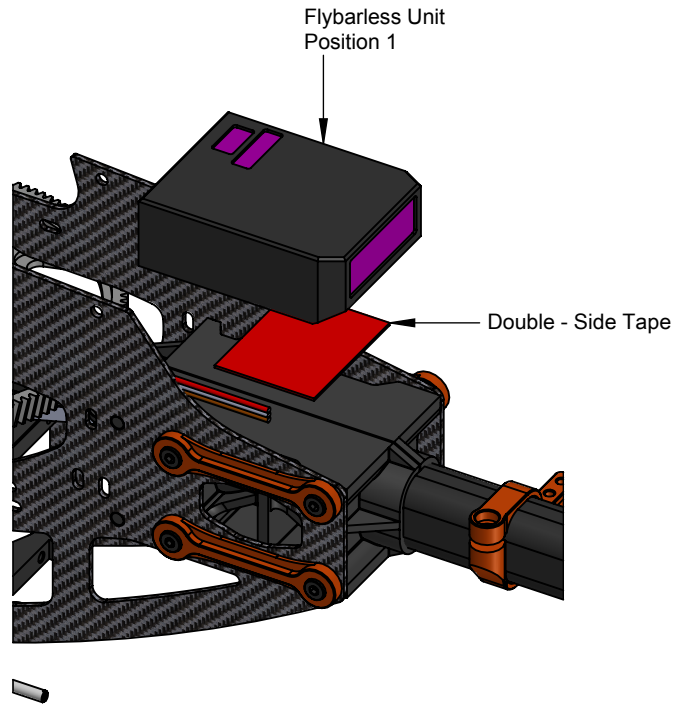



 Be carefully Motor wire and ESC will not touch Motor/Pinion.

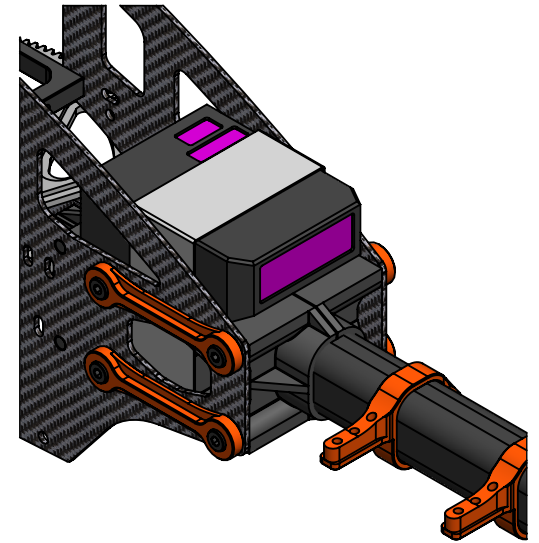


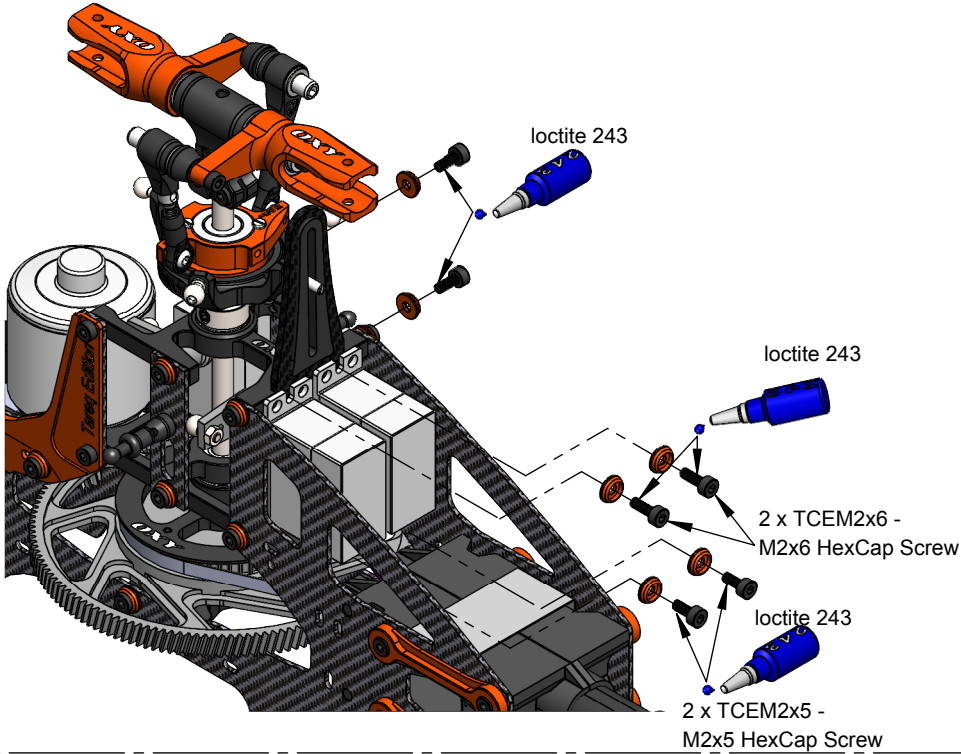
 Use 3 x cable ties, to secure the Throttle ESC wire to the main frame. Use the Frame built-in socket for best holding. In this Step connect the Motor and ESC Wires but don't secure yet. Wait till the final motor rotation check, once the FBL system is set up.  
NOTE: To reverse Motor rotation direction , just switch 2 of the 3 wires.



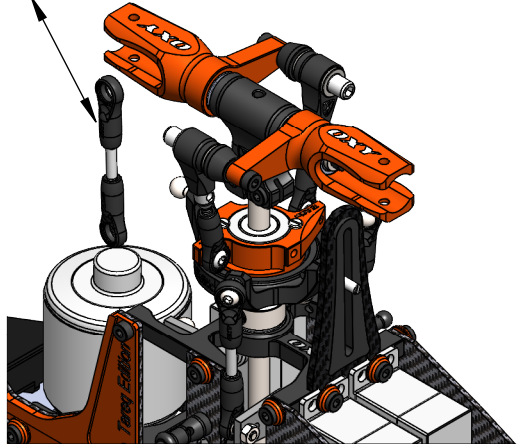


 The FBL system can be installed at the bottom or top of the boom clamp. We suggest to use the bottom for easy wiring and servo removal.

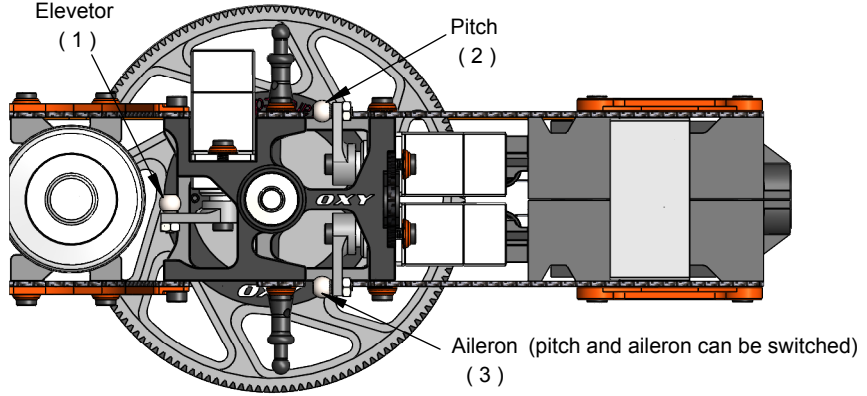




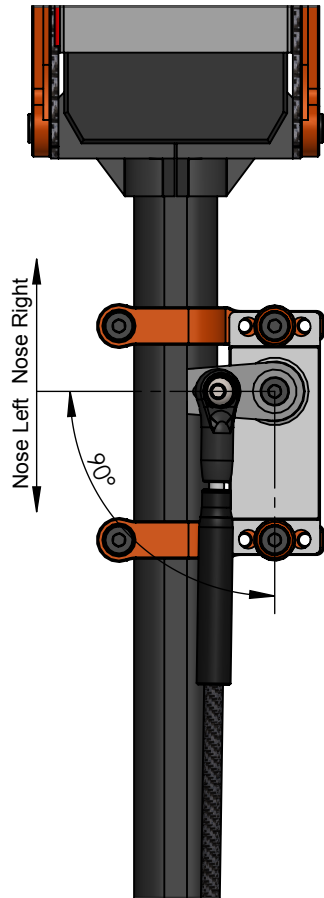
3 x Servo Rod Assembly



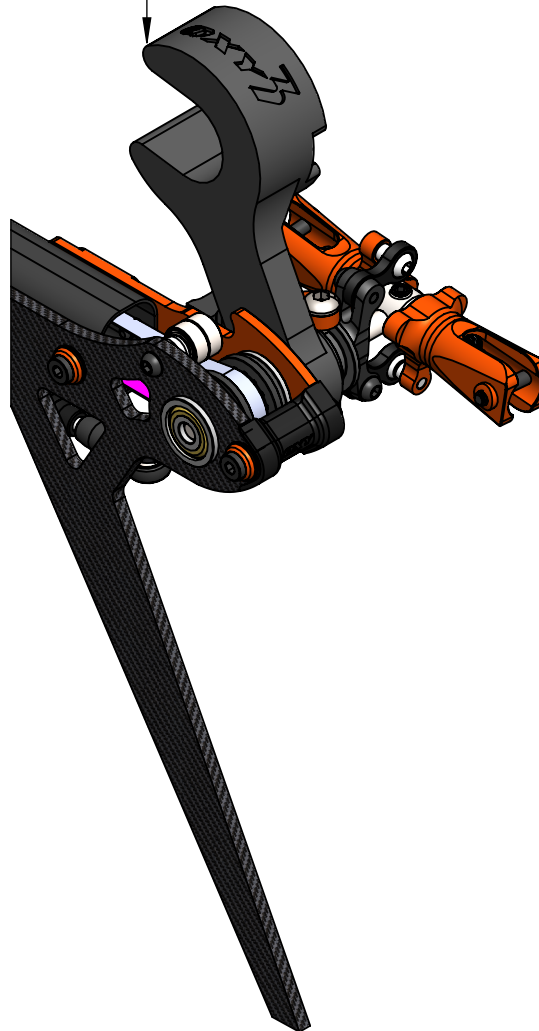
Servo Layout




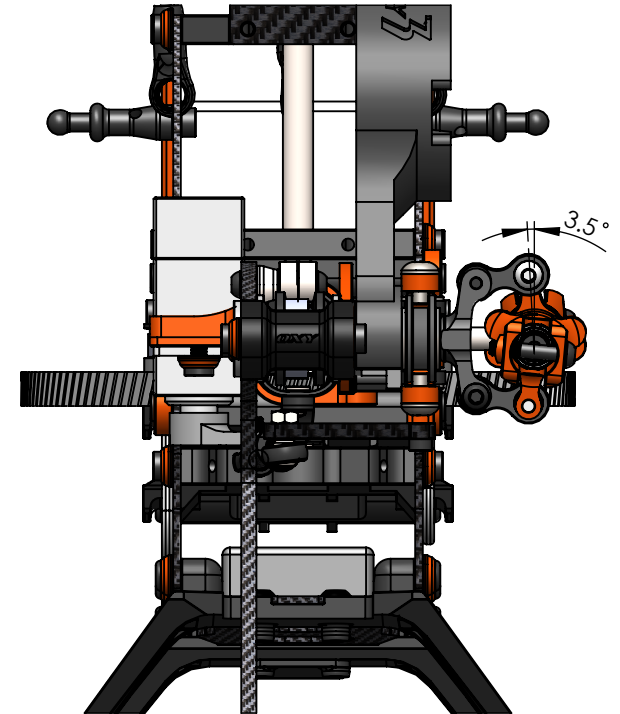
 Arm position with centered Rudder stick.




Leveler  
( Accessories Bag )



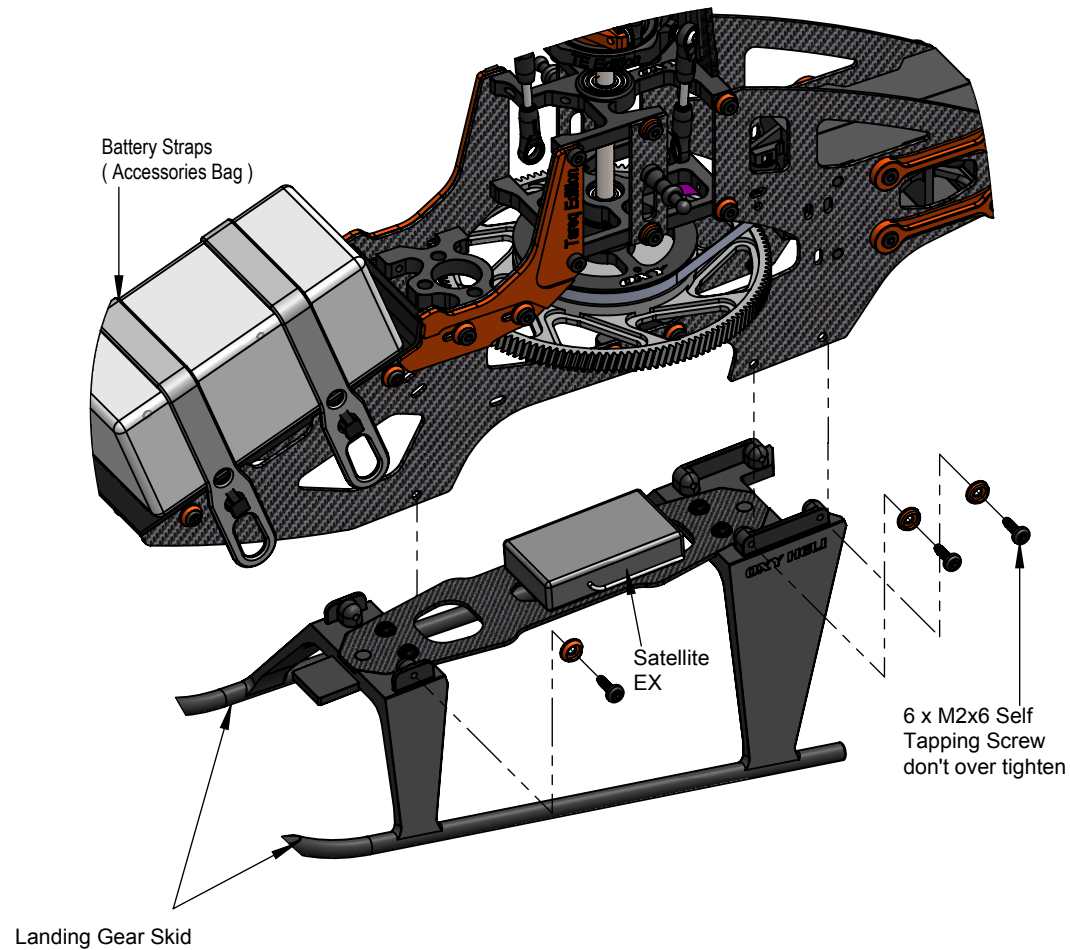
 With Rudder Stick centered and the Tail Servo Arm in the center position, adjust the Tail Push Rod length until the Tail Bell Crank and Tail Case Plate are parallel as shown.



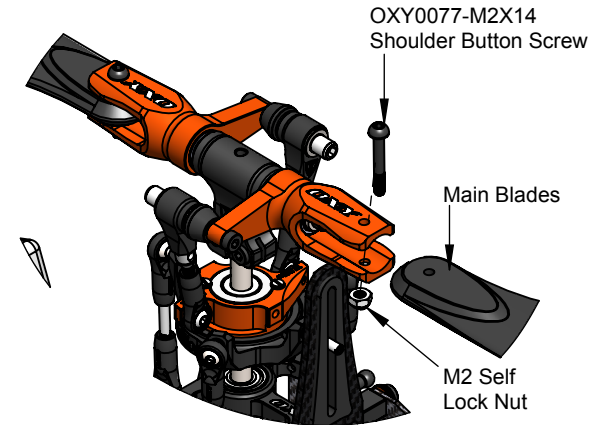
 The Oxy 3 Tail System has approximately 3.5 of counter torque with the Tail Bell Crank set per instructions.



## Landing Gear &amp; Battery Installation

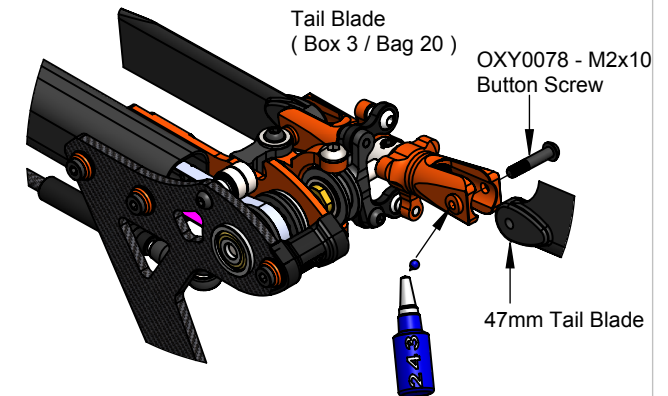


## Main Blades Installation



**⚠ Main Blade Lock Note:**  
In small Heli or in aggressive head design like oxy 2, 3 and 4 if you fly on hard terrain MUST set loose. This suggestion will avoid annoying wobbling on ramp up or landing.

## Tail Blades Installation



**⚠ Tail blade need be loose. Set it free to rotate.** About lock thread, to assure the Screw M2x 10 use it but carefully. Apply small amount of lock thread NOT in the Screw but in the Tail Grip Thread, using a tooth pick. Be careful about lock thread contamination on plastic tail blade, lock thread contains chemical that effect plastics, reducing strength. After assembly clean carefully any lock thread excess to avoid contamination effect.

**Before Fly:**

Now complete the setup of your FBL system. In the Accessories Bag you will find an Oxy 4 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 4 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 450 Helicopters and adjust after test flights.


See our table on page 6 for RPM and Pitch Settings. Cyclic Max pitch should be +/- 10.5 deg.

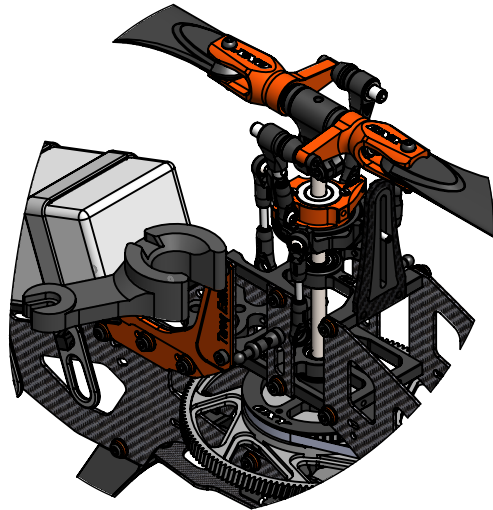
**Tail Set Up:**

Use the suggested settings for 450 Helicopters **BUT** start with a **LOWER** Tail Gain ( Increase after test per need )

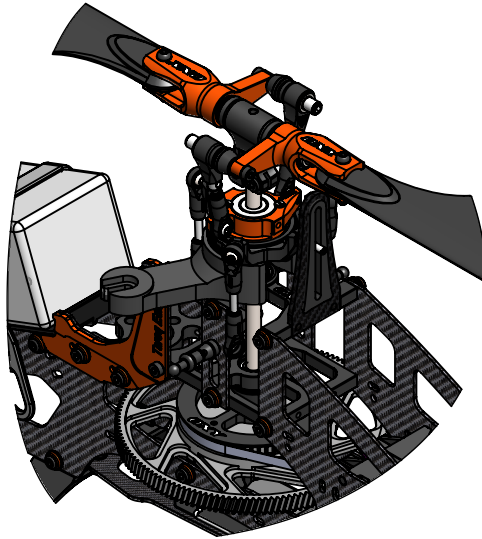
IKON / Brain = 20%


Mini V-Bar = 250 Heli suggested gain.

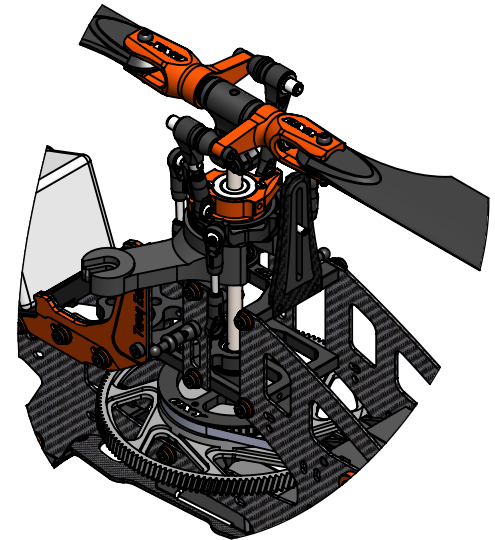
 Lift up swash plate as shown to have space for inserting Leveler.

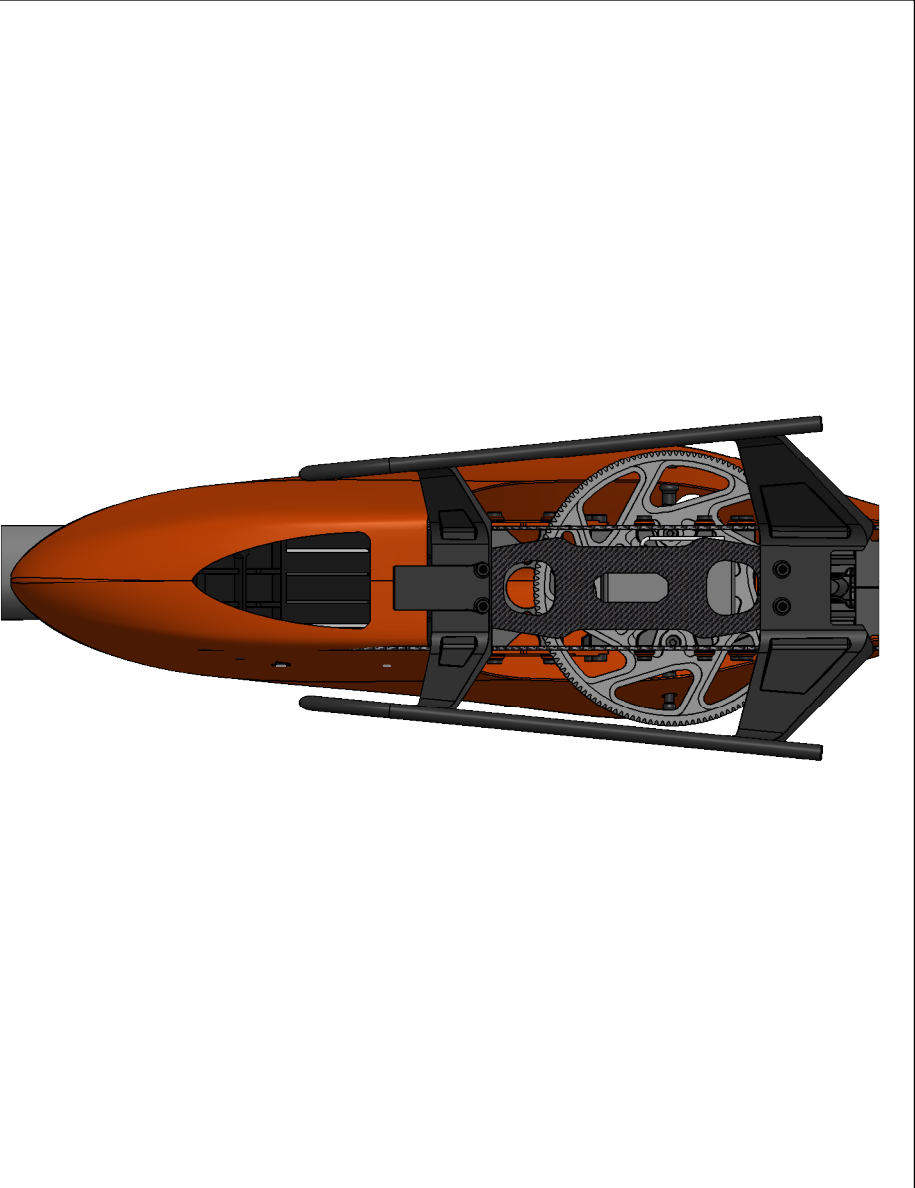


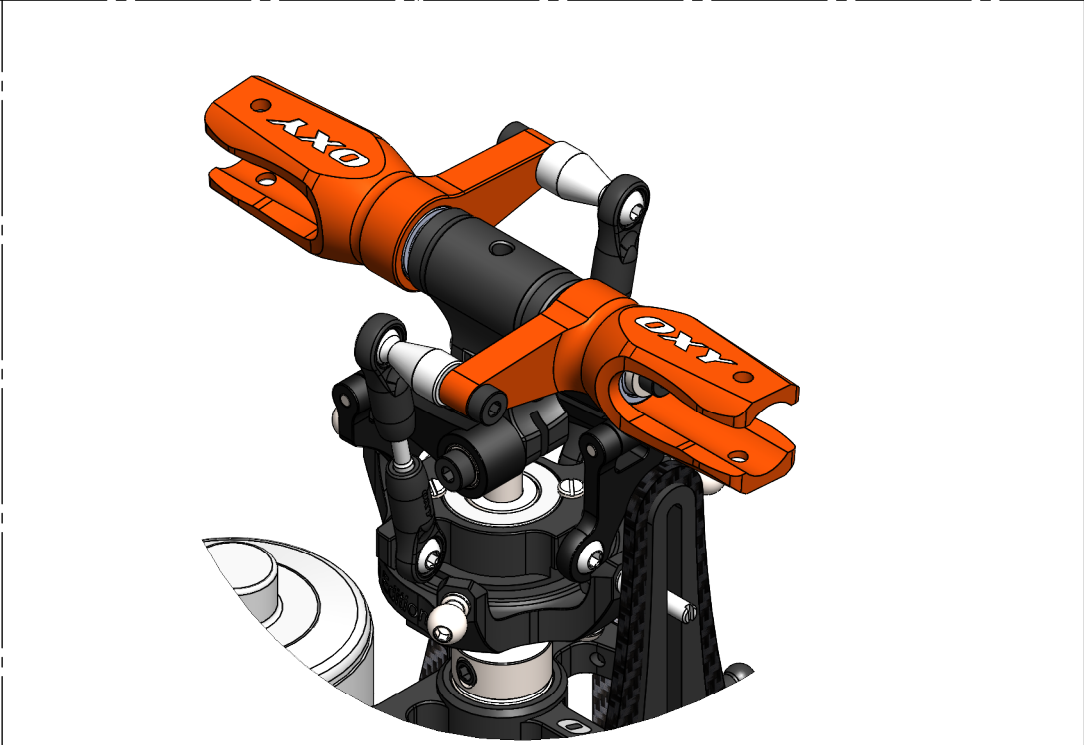
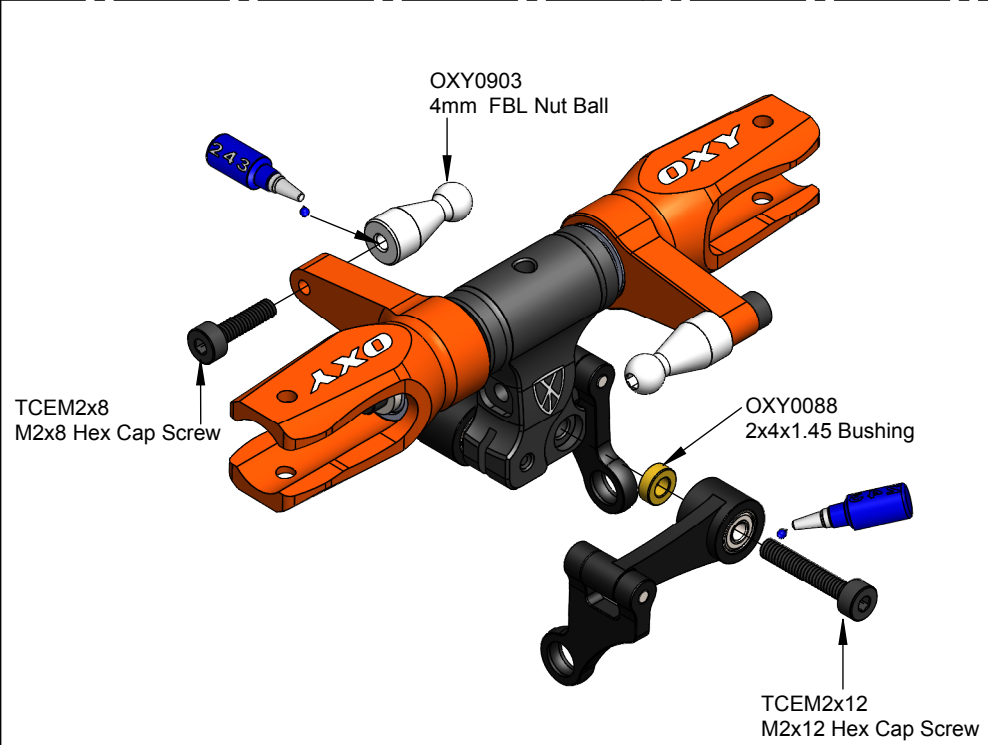
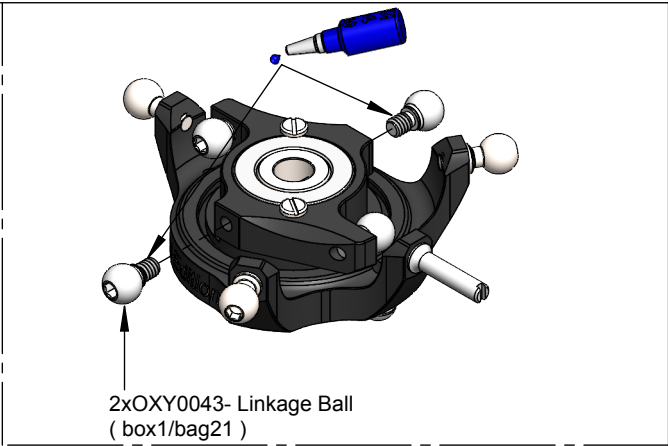
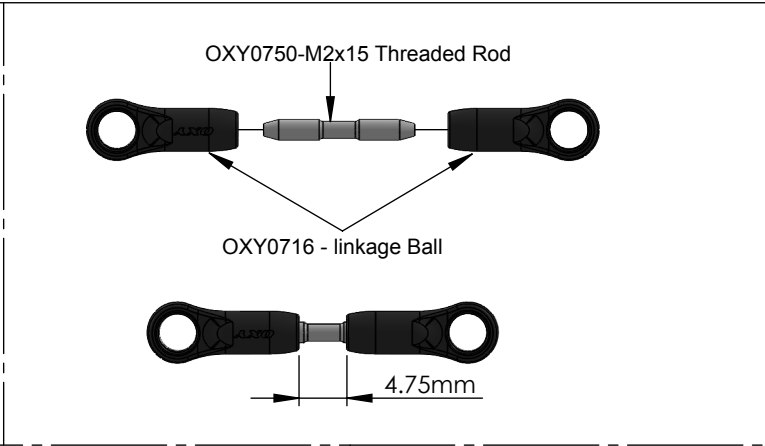
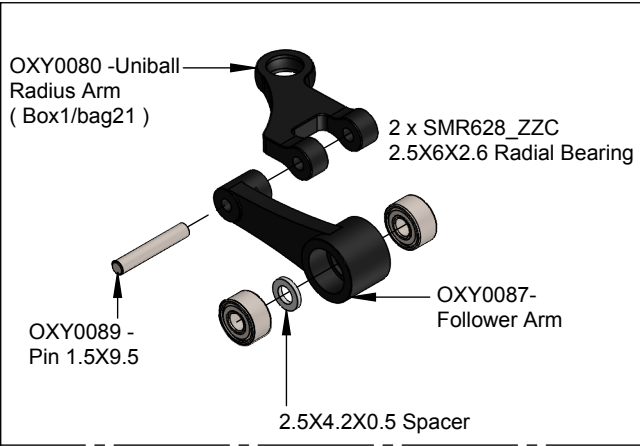
 Rotate Leveler as shown

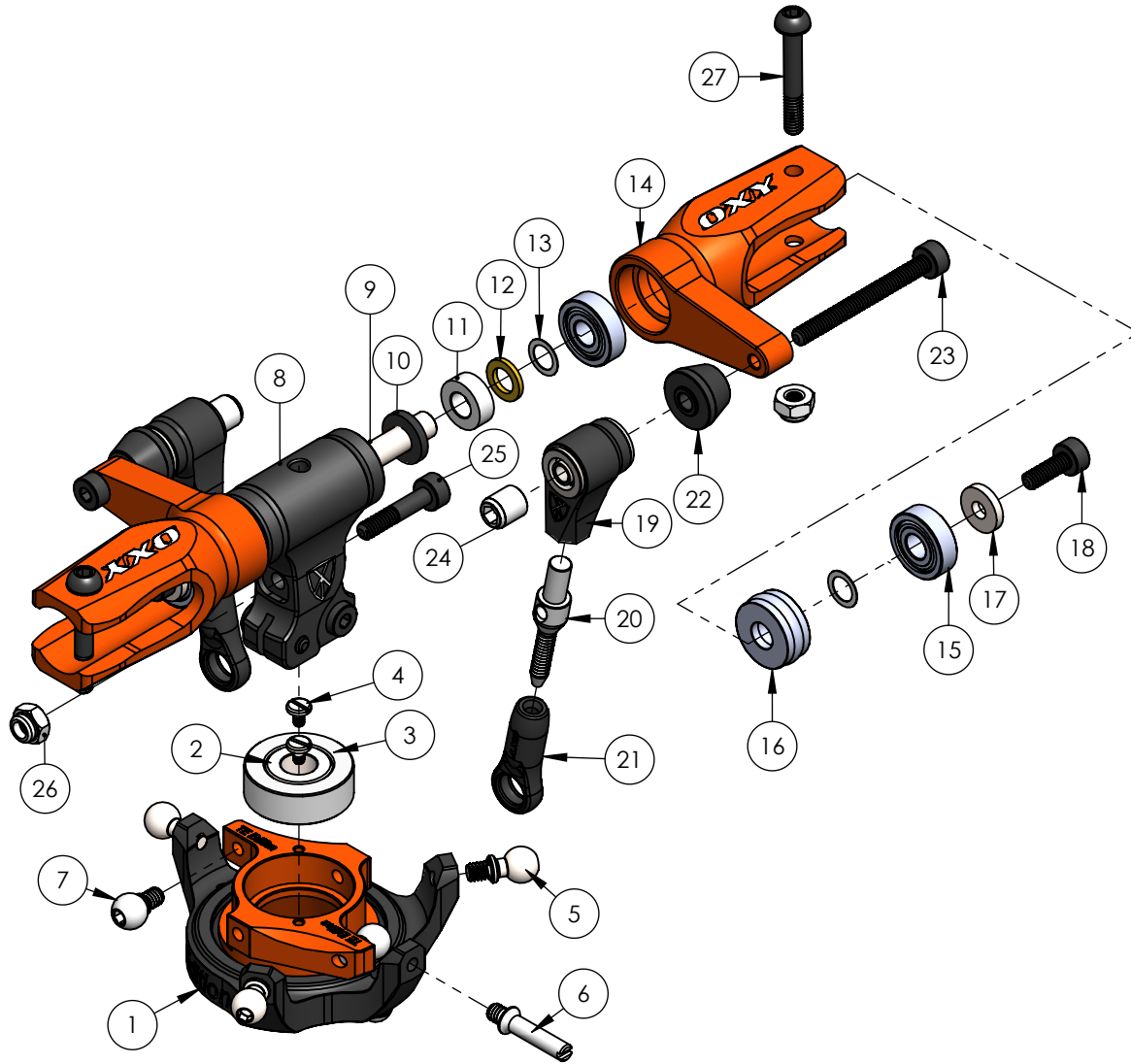


 Lower Swash Plate down until Swash Plate touch Leveler as shown.



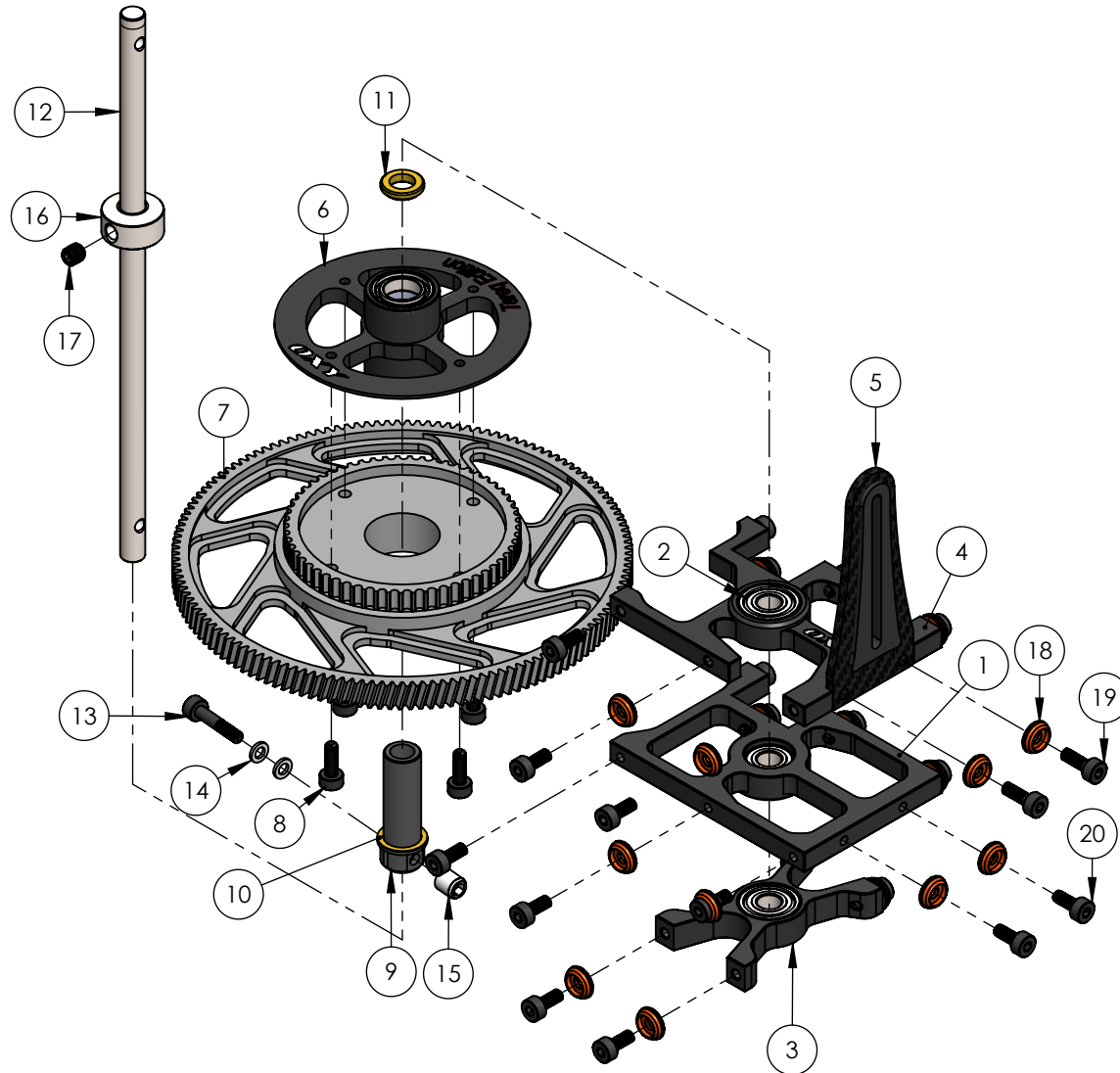


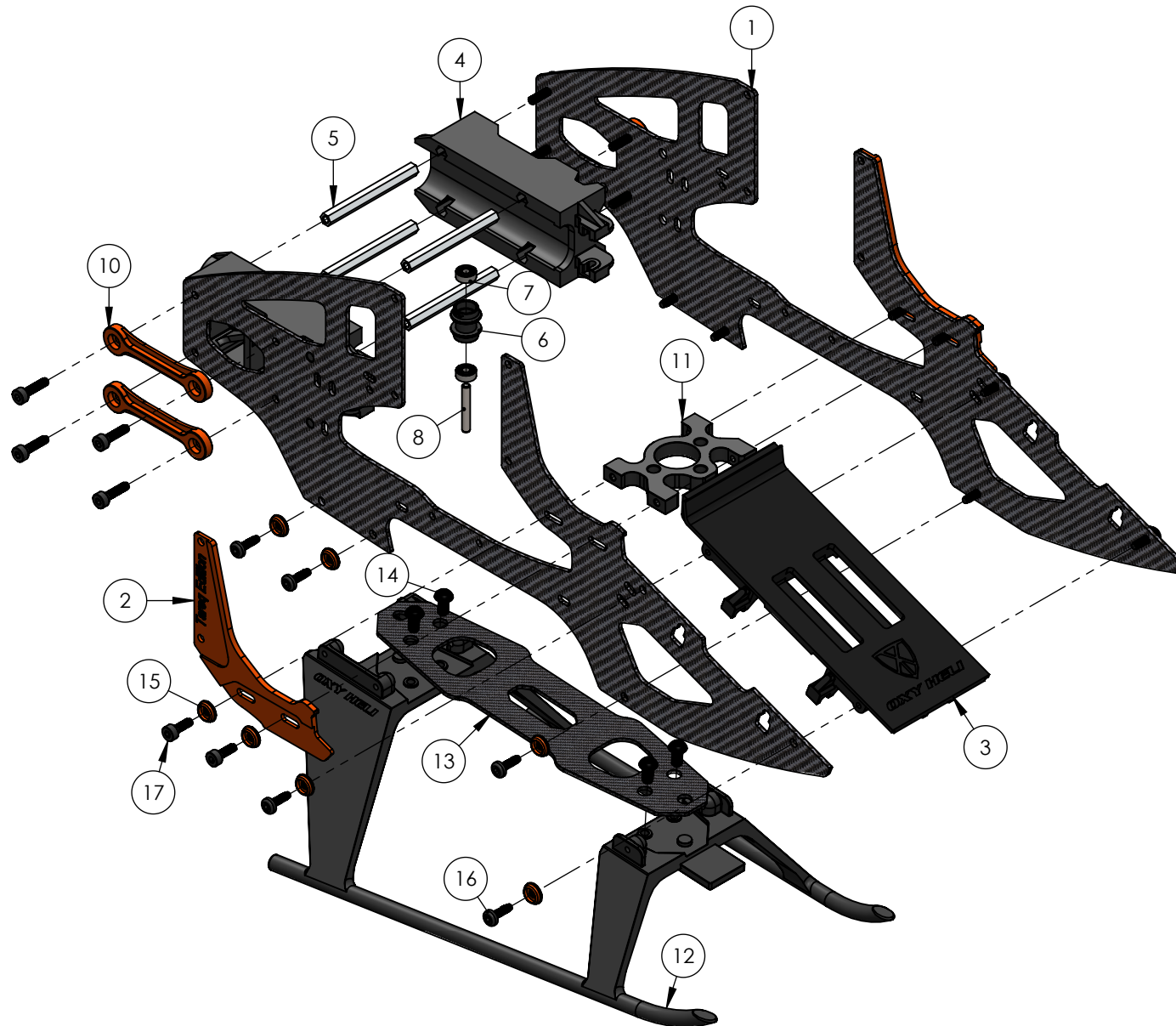




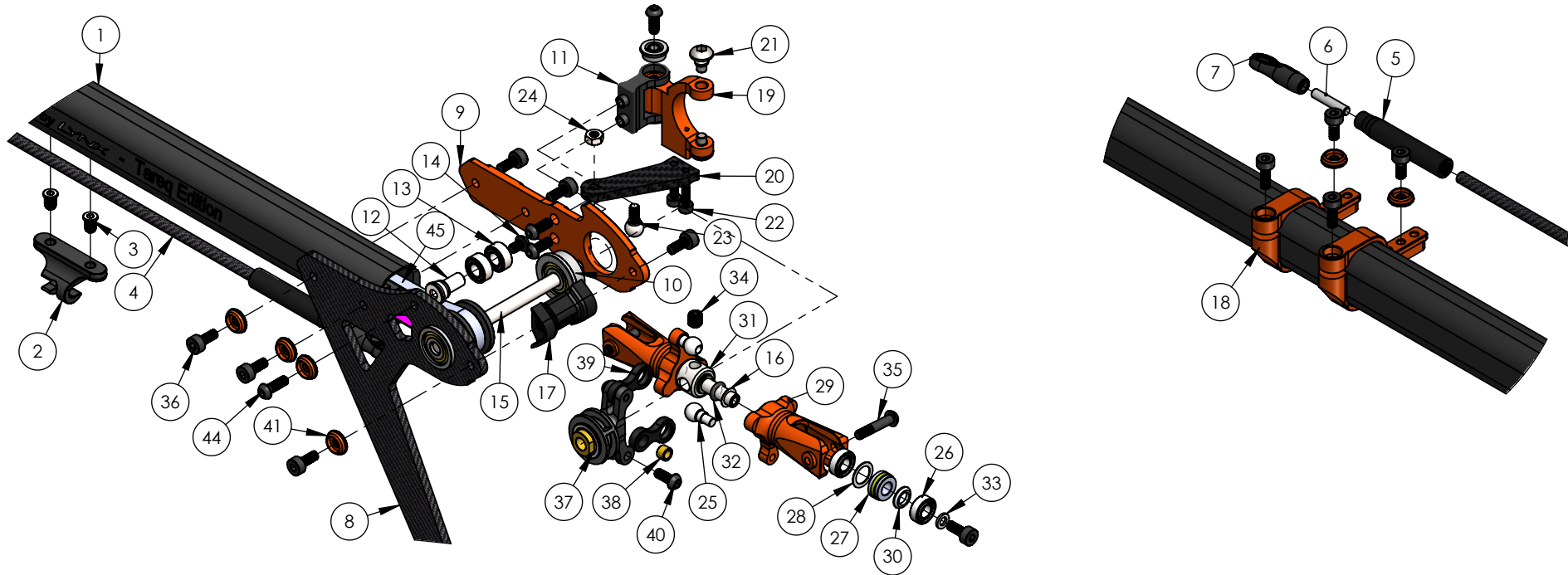
Pos.	PartNo	Description	Qty
1	OXY0696	OXY4 Lower Sw ash Plate	1
2	OXY0916	OXY3 Ball holder 2018	1
3	OXY0017	Center Ball	1
4	OXY0020	M1.2x3 Screw	2
5	OXY0019	Linkage Ball	3
6	OXY0018	2x11.5 Anti Rotation Pin	1
7	OXY0043	Link Ball	2
8	OXY0005-3	Center Hub	1
9	OXY0007	Spindle Shaft	1
10	OXY0110	Damper Rubber	2
11	OXY0079	Dampener Bushing	2
12	OXY0137	3.1X5X0.6 Washer	2
13	OXY0054	3X4X0.1 Shim	4
14	OXY0435	Main Grip	2
15	MR83-ZZ	3X8X2.5 Radial Bearing	4
16	F3-8G-X	3X8X3.5 Thrust Bearing	2
17	OXY0081	2.1X5.5X1 Washer	2
18	TCEM2X6	M2X6 Hex Cap Screw	4
19	OXY0382	Aluminum DFC ARM	2
20	OXY0749	AL DFC Rod	2
21	OXY0716	4mm PL linkage Ball M2 thread	2
22	OXY0757	OXY4 - Main Grip Bushing - Black	2
23	TCEM2X20	M2X20 Hex Cap Screw	2
24	OXY0904	M2 Custom Nut	2
25	OXY0076	M2X10 Hex Cap Screw	1
26	SLNM2	M2-Lock Nut	3
27	OXY0077	M2X14 Button Screw	2

POS	PartNo	Description	Qty
1	OXY0027	Middle Bearing Block	1
2	MR104_ZZC	4X10X4 Radial Bearing	3
3	OXY0083-3	Low er Main Shaft Bearing Block	1
4	OXY0026	Upper Main Shaft Bearing Block	1
5	OXY0276	Anti Rotation Guide	1
6	OXY0037-3LA	Main Gear Hub	1
7	OXY0386	CNC Main Gear 140T	1
8	TCEM2X6	M2X6 Hex Cap Screw	4
9	OXY0041	One Way Sleeve	1
10	OXY0040	6X8X0.15 Shim	1
11	OXY0038	Auto Rotation Spacer	1
12	OXY0003	Main Shaft	1
13	OXY0076	M2X10 Hex Cap Screw	1
14	OXY0055	2X3.5X0.5 Washer	2
15	OXY0904	M2 Custom Nut	1
16	OXY0004	Main Shaft Lock Ring	1
17	SCM3x3	Flat-Tip Set Screw M3x3	2
18	OXY0381	Frame C Washer	18
19	TCEM2X6	M2X6 Hex Cap Screw	2
20	TCEM2X5	M2X5 Hex Cap Screw	20





POS	PartNo	Description	Qty
1	OXY0921	OXY3 Main Frame ED2018	2
2	OXY0922	OXY3 Motor Stiffener ED2018	1
3	OXY0035	Battery Tray	1
4	OXY0002	Boom Clamp	2
5	OXY0022	Lock Rod	4
6	OXY0388-1	Aluminum Pulley Guide Belt	2
7	MR52-W2	2X5X2 Radial Bearing	4
8	OXY0023	2X13.5 Pin	2
9	OXY0942	Right AI OXY3 Motor Stiffener	1
10	OXY0387	Aluminum Stiffener	4
11	OXY0029-3	Motor Mount	1
12	OXY0036	Landing Gear	1
13	OXY031	Bottom Plate	1
14	TBEM2.5X5	M2.5x5 Button Screw	4
15	OXY0381	Frame C Washer	14
16	TBES2X6	M2X6 Self Tapping Screw	10
17	TCEM2X6	M2X6 Hex Cap Screw	4
18	TCEM2X8	M2X8 Hex Cap Screw	8



POS	PartNo	Description	Qty	POS	PartNo	Description	Qty	POS	PartNo	Description	Qty
1	OXY0380	Square Boom 11X14X318	1	16	OXY0054	3X4X0.1 Shim	1	31	OXY0049	Tail Hub	1
2	OXY0620	OXY3-OXY4-TE Guide Push Rod	1	17	OXY0072	Tail Case Cover	2	32	OR-ID2_W1	O-RING ID2 W1	2
3	OXY0539	M2.5 Pin Screw	2	18	OXY0389	Aluminum Tail Servo Mount	3	33	OXY0055	2X3.5X0.5 Washer	2
4	OXY0377	CF ROD 214mm	1	19	OXY0390	Aluminum Tail Bell Crank	1	34	SCM3x3	Flat-Tip Set Screw M3x3	1
5	OXY0735	OXY4 - Tail Push Rod terminal	2	20	OXY0924	OXY3 CF Belt Crank Arm	2	35	OXY0078	M2X10 Bottom Screw	2
6	OXY0666	OXY4 SST Threaded Rod M2X10	2	21	OXY0057	Tail Pin Screw	1	36	TCEM2X5	M2X5 Hex Cap Screw	10
7	OXY0716	4mm PL linkage Ball M2 thread	2	22	TCEM1.6X5	M1.6X5 Hex Cap Screw	2	37	OXY0063-3	Tail Pitch Slider	1
8	OXY0402	Vertical Fin Block	1	23	OXY0092	4X2X4.2 M2 Linkage Ball	1	38	OXY0062	2X3X2 Bushing	2
9	OXY0401	Tail Case Bearing Block	1	24	OXY0108	M2 Hex Nut	1	39	OXY0064	Link Control	2
10	MF73ZZ	3X7X3 Flange Bearing	1	25	OXY0050	Linkage Ball	2	40	TBEM2X5	M2X5 Button Screw	2
11	OXY0058	Bell Crank Support	1	26	MR63-X	3X6X2 Radial Bearing	4	41	OXY0381	Frame C Washer	6
12	OXY0071	Bearing Bushing	1	27	F3-6M	3x6x2.8 Thrust Bearing	2	42	TBEM2X5	M2X5 Button Screw	4
13	MR63_ZZC	Radial Bearing 3X6X2.5	1	28	OXY0053	4.2X6X0.2 Shim	2	43	TCEM2X6	M2X6 Hex Cap Screw	2
14	TBEM2X3	M2x3 Button Screw	1	29	OXY0710	OXY4 Tail Grip	2	44	TBEM2X6	M2X6 Button Screw	1
15	OXY0044	Tail Shaft 16T	1	30	OXY0723	OXY3.4 Tail Grip Spacer	2	45	B44MXL	B44MXL Timing Belt	1

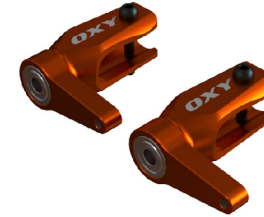




SP-OXY3-111  
OXY3 TE - Center Hub, Black



OSP-1123  
OXY3-Main-Grip-Orange-Set-2pcs



SP-OXY3-066  
OXY3 - Main Grip Service Bag



SP-OXY3-003  
OXY3 - Carbon Steel Spindle Shaft, 2PC



SP-OXY3-004  
OXY3 - Dampeners, 2 Set



OSP-1127 - OXY3-OXY4  
Pro-Edition-DFC Arm,Black-Set



OSP-1163-OXY3-OXY4  
DFC-Arm-Spacer,-2-Set



OSP-1085 OXY4  
Pro Edition DFC Rod Spare Set, 4pc



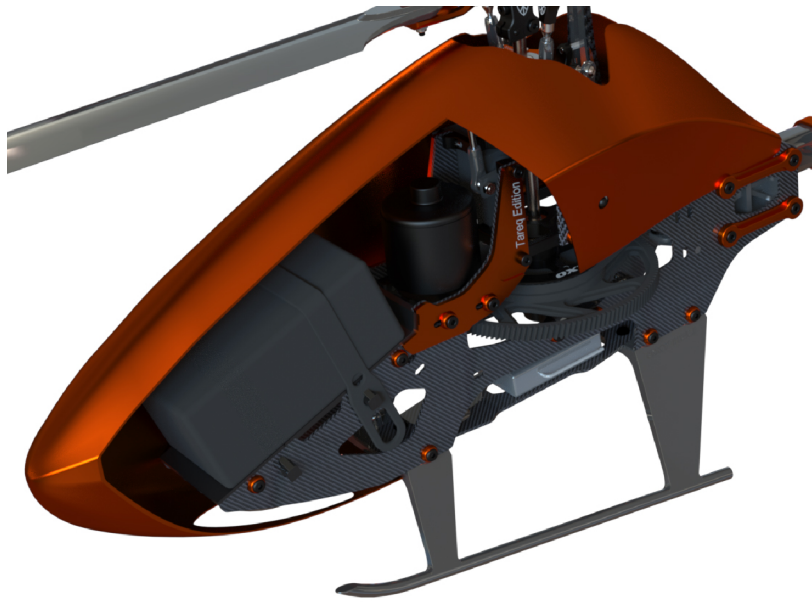
OSP-1119-OXY3  
ED2018-TE-Swash-Plate



OSP-1129-OXY3-  
ED2018-Swashplate-Service-Bag



<p>OSP-1008 OXY4 Linkage Ball, 10Pcs</p> 	<p>OSP-1012 Threaded Rod M2x10, 10Pcs</p> 	<p>OSP-1100 Threaded Rod M2x14, 10pcs</p> 	<p>SP-OXY3-036 OXY3 - Servo Arm Set, 4 PC</p> 	<p>OSP-1130 OXY3-ED2018-FBL-System</p> 
<p>OSP-1131 OXY3-ED-2018-FBL-System-Spare</p> 	<p>OSP-1103 - OXY4 FBL Linkage Ball, 2 Set</p> 	<p>SP-OXY3-251-1 OXY3 - Ninja Flex Blade Holder - Orange</p> 		<p>M2x6CS-10 Hex Cap Screw M2x6, 10 PCS</p> 
<p>M2x10S/CS-10 Shoulder Hex Cap Screw M2x10, 10 PCS</p> 	<p>M2x10S/CS-10 Shoulder Hex Cap Screw M2x10, 10 PCS</p> 	<p>M2-SLN-10 Self Lock Nut M2</p> 	<p>OSP-1150-H2-M2-Nut</p> 	<p>WM20-55-100 WASHER 2X5.5 W1, 10 PCS</p> 



OSP-1132  
OXY3-Upper-Bearing-Block-Black



OSP-1133  
OXY3-Middle-Bearing-Block-Black



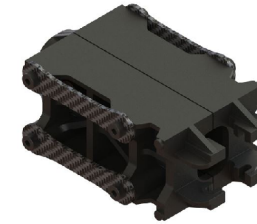
OSP-1134  
OXY3-Lower-Bearing-Block-Black



OSP-1135  
OXY3-Motor-Mount-Black



OSP-1135  
OXY3-Motor-Mount-Black



SP-OXY3-121-OXY3  
TE - Boom Clamp Stiffener, Orange Set



SP-OXY3-237  
OXY3 - Aluminum Pulley Guide Belt



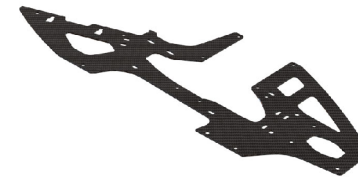
SP-OXY3-021 - OXY3  
Boom Mount Lock Rod, Set



SP-OXY3-067-OXY3  
Main Shaft Bearing Block - Service Bag









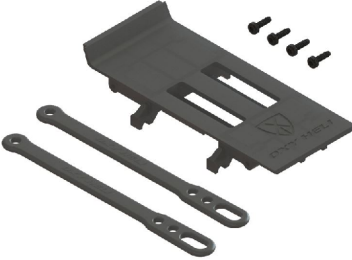

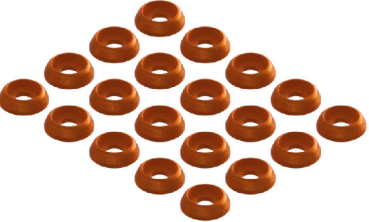





OSP-1137-OXY3  
ED-2018-Main-Frame

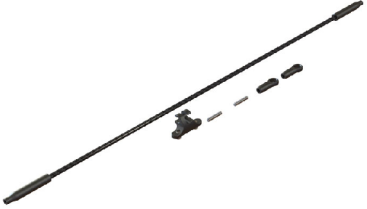










OSP-1138-OXY3  
ED2018-Pro-Edition-Motor-Stiffener,  
Orange-2Pcs



<p>SP-OXY3-051 OXY3 - Break Away Canopy Plate</p> 	<p>SP-OXY3-104-OXY3 Carbon-Copolymer Anti Rotation Guide</p> 	<p>SP-OXY3-238-OXY3 Aluminum Canopy Mount - Black</p> 	<p>SP-OXY3-152 OXY3 - TE Bottom plate, CF</p> 	<p>SP-OXY3-150 - OXY3 TE - Aluminum Landing Gear V2</p> 
<p>SP-OXY3-120-OXY3 TE - CNC Main Gear, 1 Set</p> 	<p>SP-OXY3-017-OXY3 One Way Hub Assembly</p> 	<p>OSP-1136-OXY3 One-Way-Hub-Service-bag</p> 	<p>SP-OXY3-016 OXY3 - Battery Tray Set</p> 	<p>SP-OXY3-015 OXY3 - Battery Oring , 4PC</p> 
<p>SP-OXY3-133 C Washer M2, Orange 20pcs</p> 	<p>M2x5CS-10 Hex Cap Screw M2x5, 10 PCS</p> 	<p>M2x8CS-10 Hex Cap Screw M2x8, 10 PCS</p> 	<p>M3x8CS-10 Hex Cap Screw M3x8, 10 PCS</p> 	<p>M2x6SBH-10 Self-Tapping Button Hex Screw M2x6, 10 PCS</p> 

	<p>OSP-1146-OXY3-16T-Tail-Shaft</p> 		<p>SP-OXY3-048 OXY3 - Tail Case Hub</p> 		<p>SP-OXY3-032 OXY3 - Tail Case Cover</p> 				
	<p>SP-OXY3-126-OXY3 TE - Tail Case Bearing Block ,Orange</p> 		<p>OSP-1149-OXY3 Tail-Pitch-Slider,-Black</p> 		<p>OSP-1140-OXY3 ED2018-Pro-EditionTail-Bell-Crank-Orange</p> 				
<p>SP-OXY3-124 OXY3 TE - Bell Crank Support , Black</p> 		<p>SP-OXY3-034 OXY3 - Tensioner Tail Belt</p> 		<p>OSP-1153-OXY3 OXY4-Tail-Grip,-Orange</p> 		<p>SP-OXY3-024-OXY3 Tail Rotor Hub - Spare Part</p> 		<p>SP-OXY3-241-OXY3 Pro Edition Vertical Fin - Black</p> 	

<p>OSP-1144-OXY3 ED2018-Tail-push-rod-285-Main-Blade-kit</p> 	<p>OSP-1180-OXY3- Painted Tail Boom # 1</p> 	<p>SP-OXY3-025 OXY3 - Tail Rotor - Service Bag</p> 	<p>SP-OXY3-080 - OXY3 - Tail Shaft 15T</p> 	<p>SP-OXY3-108-OXY3 285 Stretch - Tail Belt Spare</p> 
<p>SP-OXY3-028-OXY3 Tail Pitch Slider - Service Bag</p> 	<p>SP-OXY3-130-OXY3 TE - Tail Servo Mount, Orange</p> 	<p>SP-OXY3-058-3 OXY3 - Tail Blade 47mm - Black</p> 	<p>SP-OXY3-059-3 OXY3 - Tail Blade 50mm - Black</p> 	

<p>OSP-1181-OXY3 - ED2018 TE Canopy</p> 	<p>OSP-1151-OXY3 Vertical Fin Set</p> 	<p>SP-OXY3-054 OXY3 - Battery Hook &amp; Loop, 2 Set</p> 	<p>SP-OXY3-055 - OXY3 Double Side Adhesive Tape, 2PC</p> 	<p>SP-OXY3-057 OXY3 - Cable Ties Set</p> 
<p>M3x3SC-10 Set Screw M3x3, 10 PCS</p> 	<p>M2x8SBH-10 Self-Tapping Button Hex Screw M2x8, 10 PCS</p> 	<p>M2x20CS-10 Hex Cap Screw M2x20, 10 PCS</p> 	<p>M2x6CS-10 Hex Cap Screw M2x6, 10 PCS</p> 	<p>M2x5CS-10 Hex Cap Screw M2x5, 10 PCS</p> 
<p>M2x5BH-10 Button Hex Cap Screw M2x5, 10 PCS</p> 	<p>M2.5x5BH-10 Button Hex Cap Screw M2.5x5, 10 PCS</p> 	<p>LX0362 3-4 mm Spindle Shaft Wrench</p> 	<p>LX1568 4mm Plastic Linkage Ball Reamer Tool</p> 	<p>SP-OXY3-039 OXY3 - Pinion 10T - Shaft 3.17</p> 

SP-OXY3-040  
OXY3 - Pinion 11T - Shaft 3.17



OSP-1086  
OXY4 Pinion 12T - 3.17mm Motor Shaft



OSP-1091  
OXY4 Pinion 13T - 3.17mm Motor Shaft



OSP-1065  
OXY4 Pinion 14T - 3.17mm Motor Shaft



OSP-1088  
OXY4 Pinion 15T - 3.17mm Motor Shaft



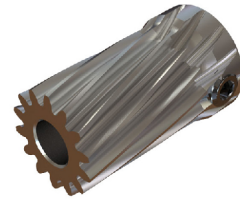
OSP-1088  
OXY4 Pinion 15T - 3.17mm Motor Shaft



OSP-1087  
OXY4 Pinion 13T - 3.5mm Motor Shaft



OSP-1092  
OXY4 Pinion 14T - 3.5mm Motor Shaft



OSP-1066  
OXY4 Pinion 15T - 3.5mm Motor Shaft



OSP-1089  
OXY4 Pinion 16T - 3.5mm Motor Shaft



SP-OXY3-245  
OXY3 - Pinion 16T - Shaft 3.17

