

OXY 3 - Tareq Edition

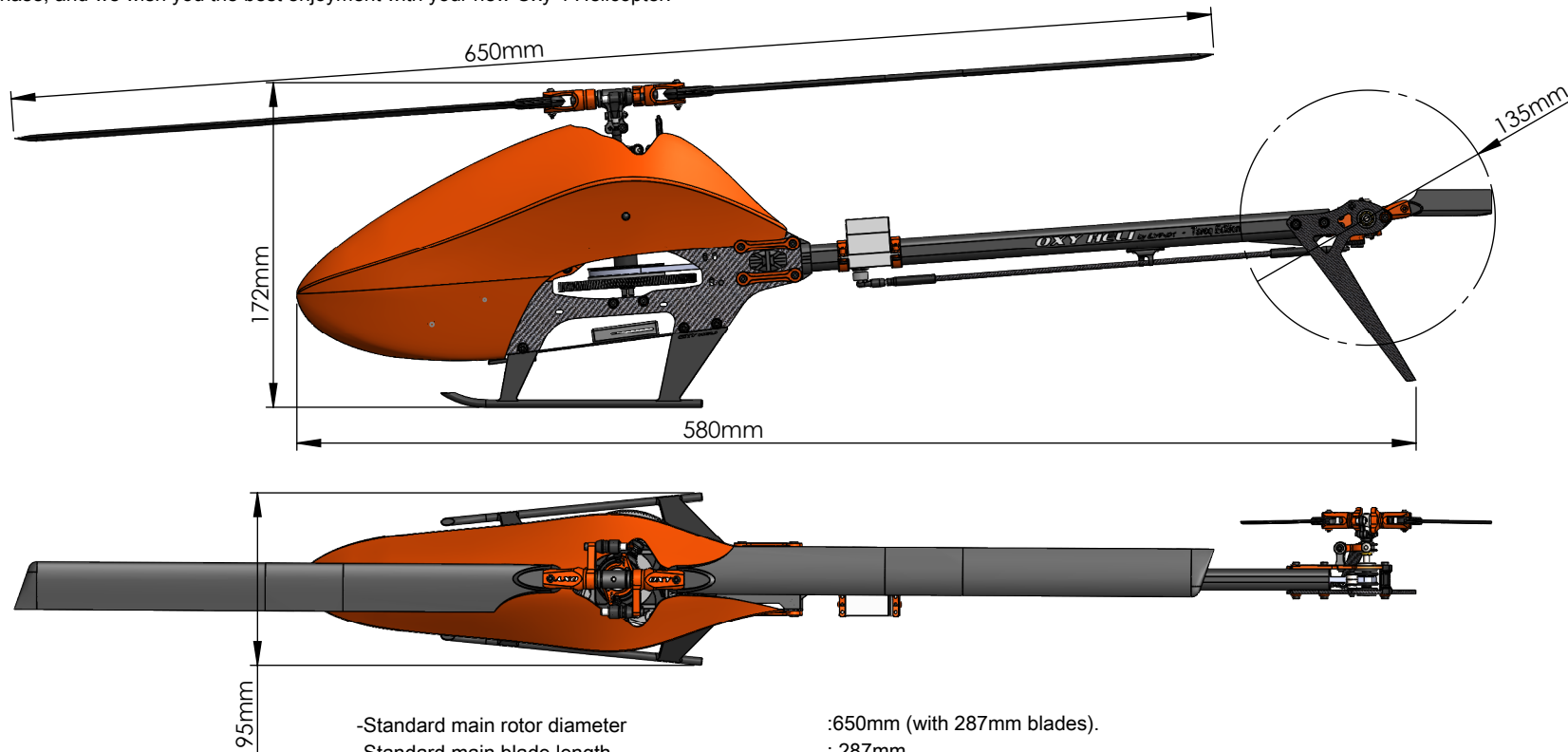
ID2018 Instruction Manual
Tareq Edition



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VERY IMPORTANT NOTE:

- Visit the Oxy Heli web site 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.
-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:

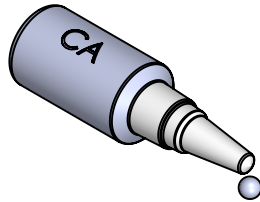
Only fly this model in areas designated for the use of model aircraft. Ensure you obtain indemnity insurance, normally available through your National model aircraft association. Remain at least 6 meters (20 feet) from the model at all times. Never allow spectators or animals any closer than 30 meters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



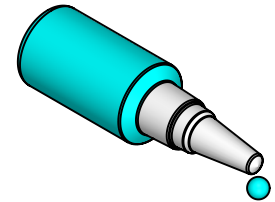
Use CA Glue



Use Loctite 243 Medium Strength



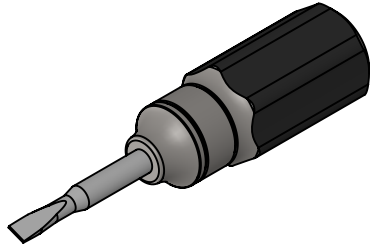
Use Loctite 648 Bonding



Use Silicone Grease

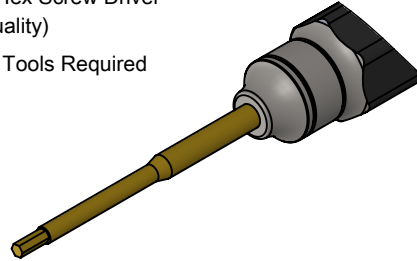
TOOLS REQUIRED

Small Tip - Flat Screw Driver



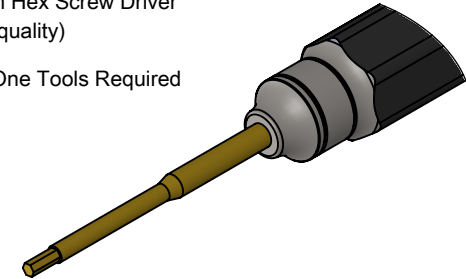
1.5mm Hex Screw Driver
(High quality)

⚠ Two Tools Required

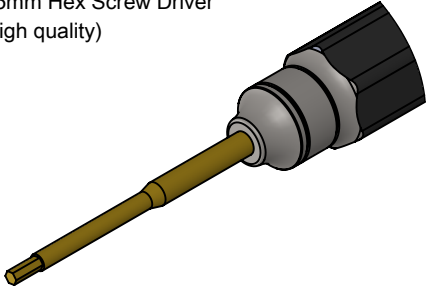


1.3mm Hex Screw Driver
(High quality)

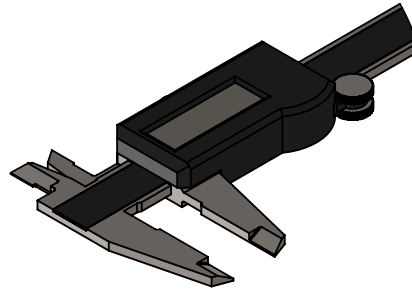
⚠ One Tools Required



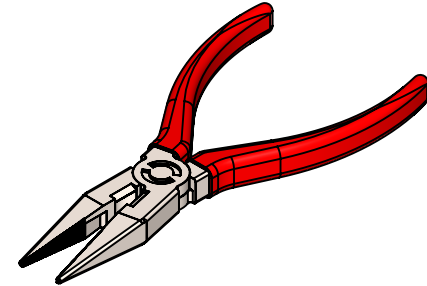
2.5mm Hex Screw Driver
(High quality)



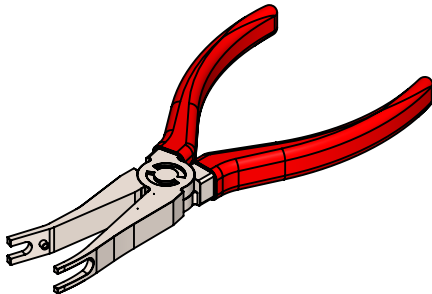
Caliper



Needle Nose Pliers

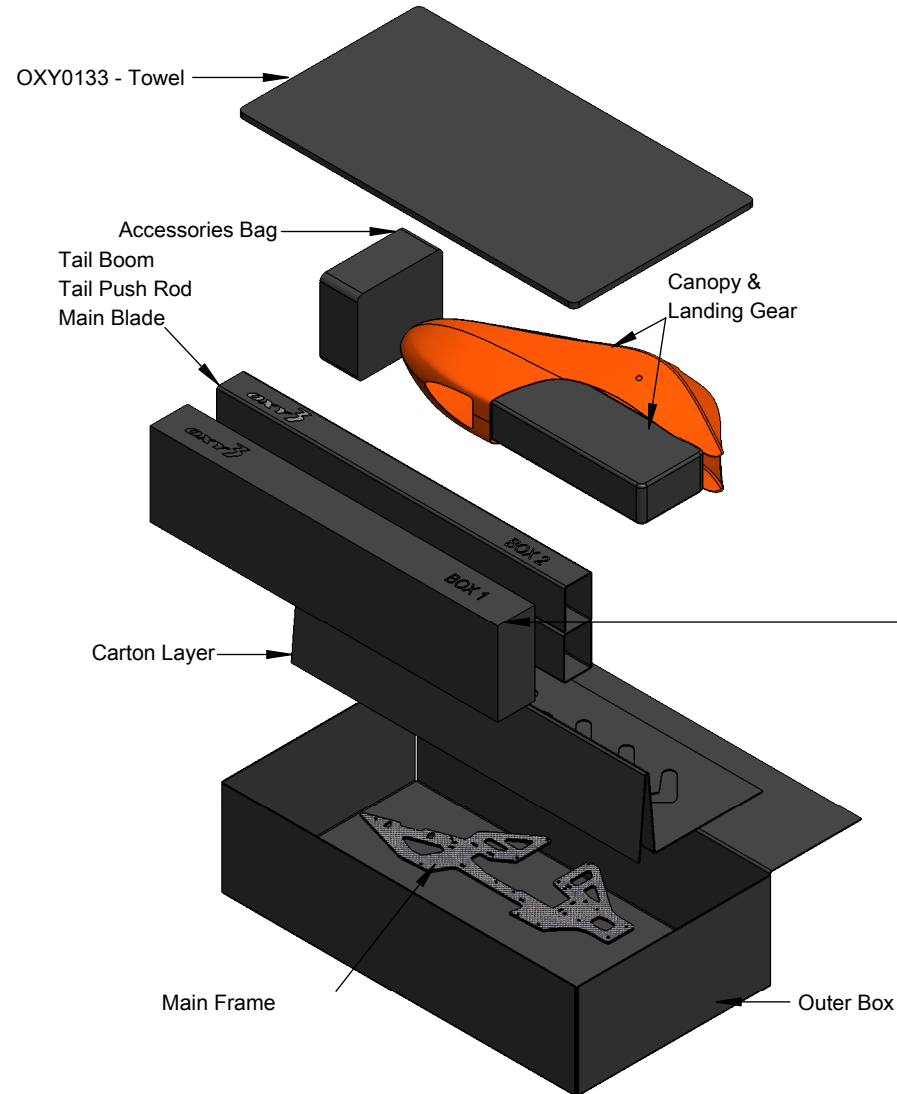


Uniball Pliers



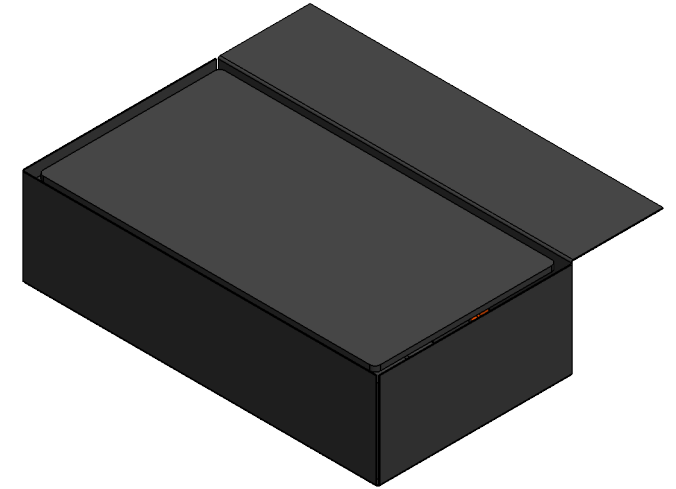
Note :

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 21 FBL Head System
 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		

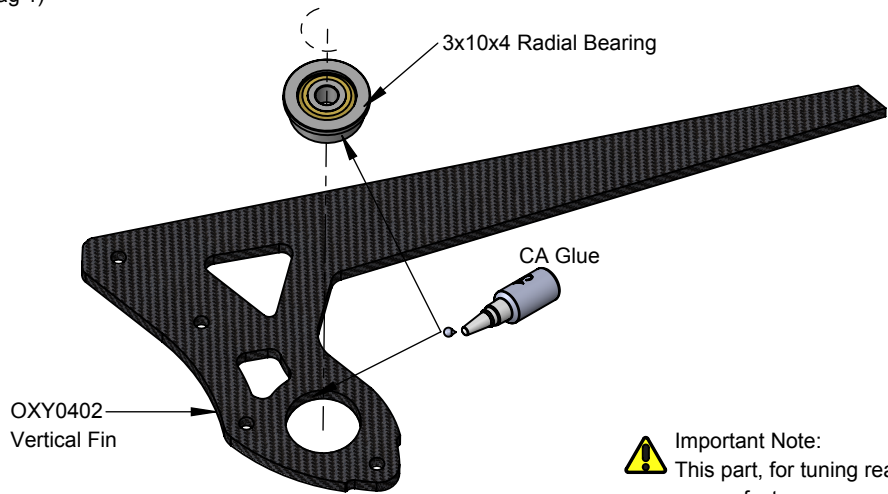
Head Speed Note: Although Oxy 3 can handle very high Head Speed, we suggest don't exceed 4500 RPM to maintain a good compromise btw performances and efficiency.

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:

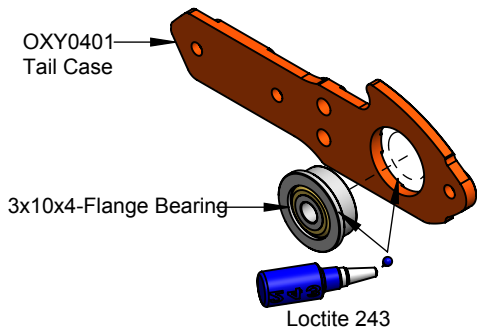
- Motor: Suggested KV 3000KV to 4500KV, 21-08 to 22-14 caliber series (stator diameter - stator length).
- Battery: 3 or 4S with capacity from 1300 to 1500mAh / 35C discharge rate. Maximum size: length 76mm, height 35mm, width 37mm, weight 180g.
- ESC: 35 to 40A - with BEC 6V or higher. Or use an external 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)



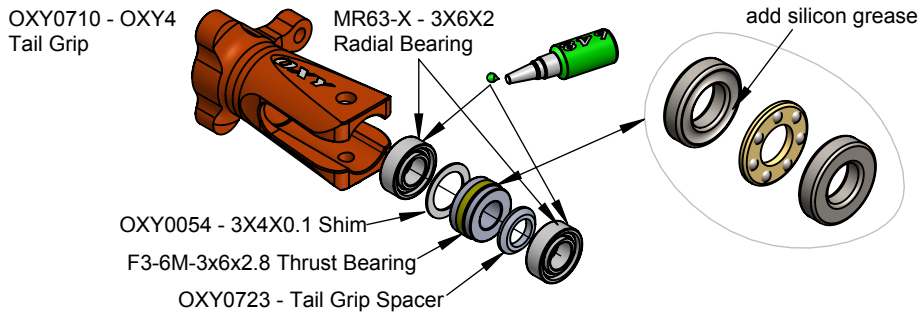
Important Note:
This part, for tuning reasons,
comes factory pre assembled,
it ready to us

Tail Case Assembly
(box1/bag 1)

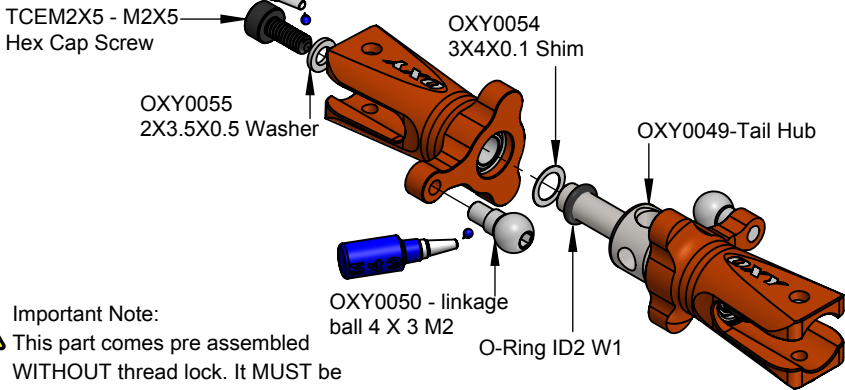


Important Note:
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comes factory pre assembled,
it ready to us

Tail Rotor Assembly
(box1/bag 2)

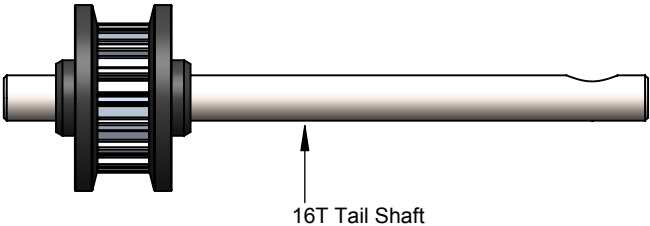



Important Note:
This part, for tuning reasons,
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it ready to us



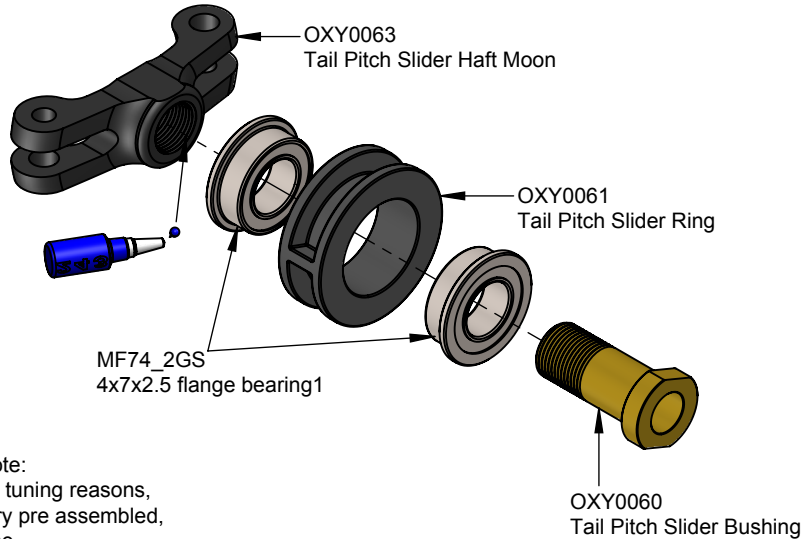
Important Note:
This part comes pre assembled
WITHOUT thread lock. It MUST be
re-assembled with thread lock as shown.


Tail Shaft Assembly
(box1/bag 3)

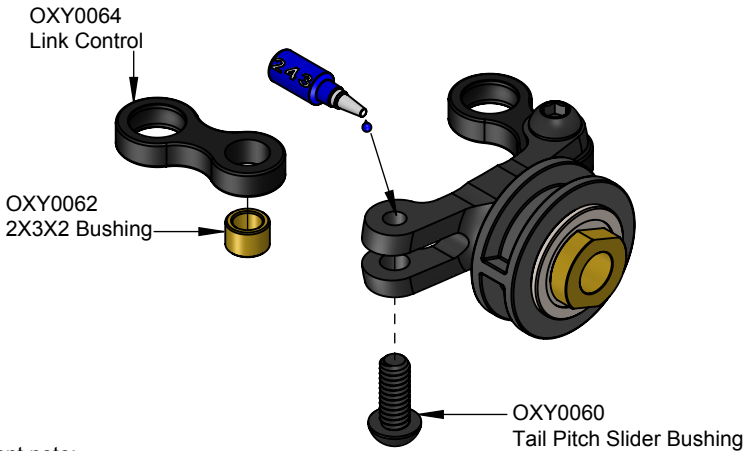



 Important Note:
This part, for tuning reasons,
comes factory pre assembled,
it ready to use.

Tail Pitch Slider Assembly
(box1/bag 4)

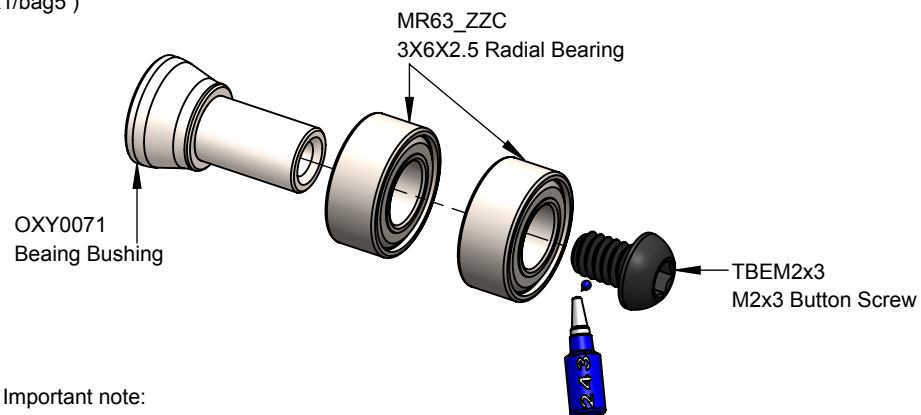


 Important Note:
This part, for tuning reasons,
comes factory pre assembled,
it ready to use.



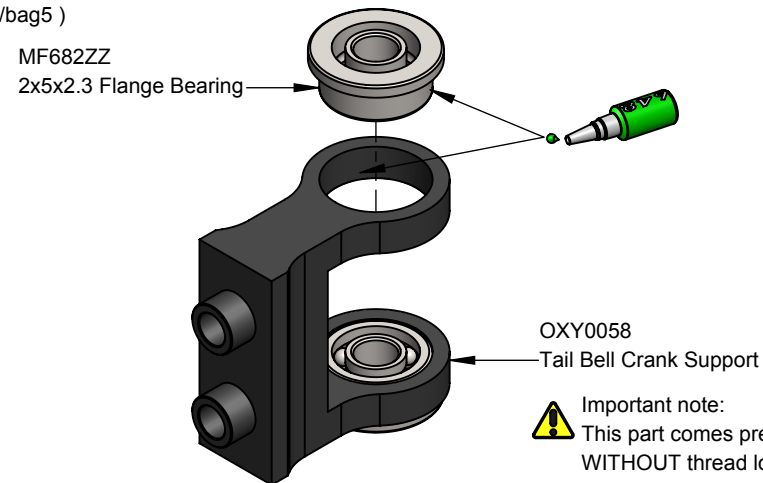
 Important note:
This part comes pre assembled
WITHOUT thread lock. It MUST be
re-assembled with thread lock as shown.

Tail Belt Tensioner Assembly (box1/bag5)



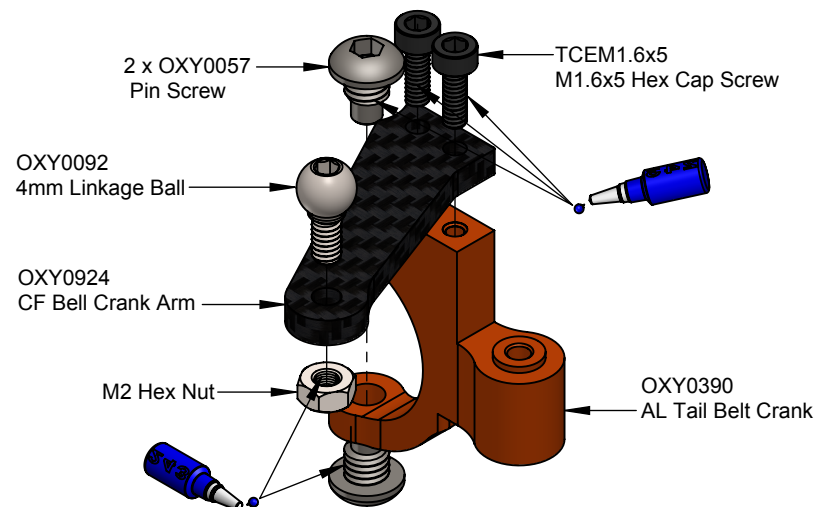
Important note:
This part comes pre assembled
WITHOUT thread lock. It MUST be
re-assembled with thread lock as shown.

Tail Belt Crank Support Assembly (box1/bag5)

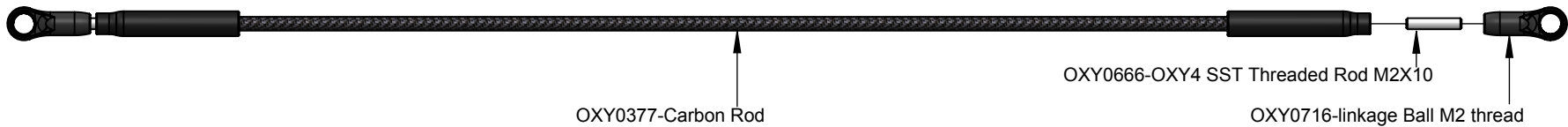


Important note:
This part comes pre assembled
WITHOUT thread lock. It MUST be
re-assembled with thread lock as shown.


Tail Belt Crank Assembly (box1/bag5)




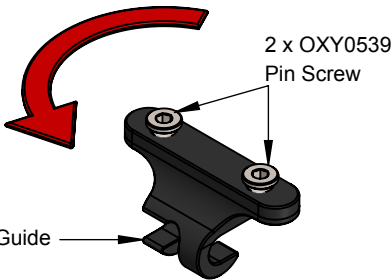
Important note:
This part comes pre assembled
WITHOUT thread lock. It MUST be
re-assembled with thread lock as shown.




Step 1:

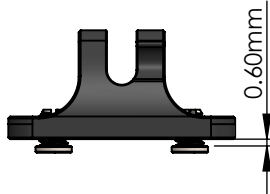
 Note: to install this pin screw rotate counter clock wire

 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



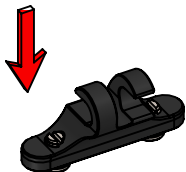
Step 2:

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



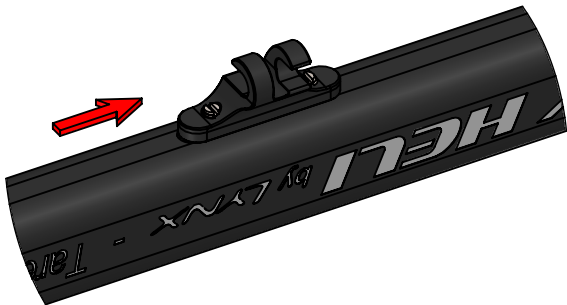
Step 3:

Push the part inside the boom sockets as shown



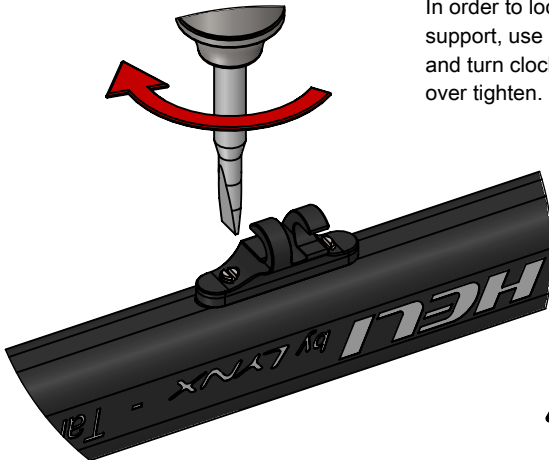
Step 4:


Slide the parts as shown

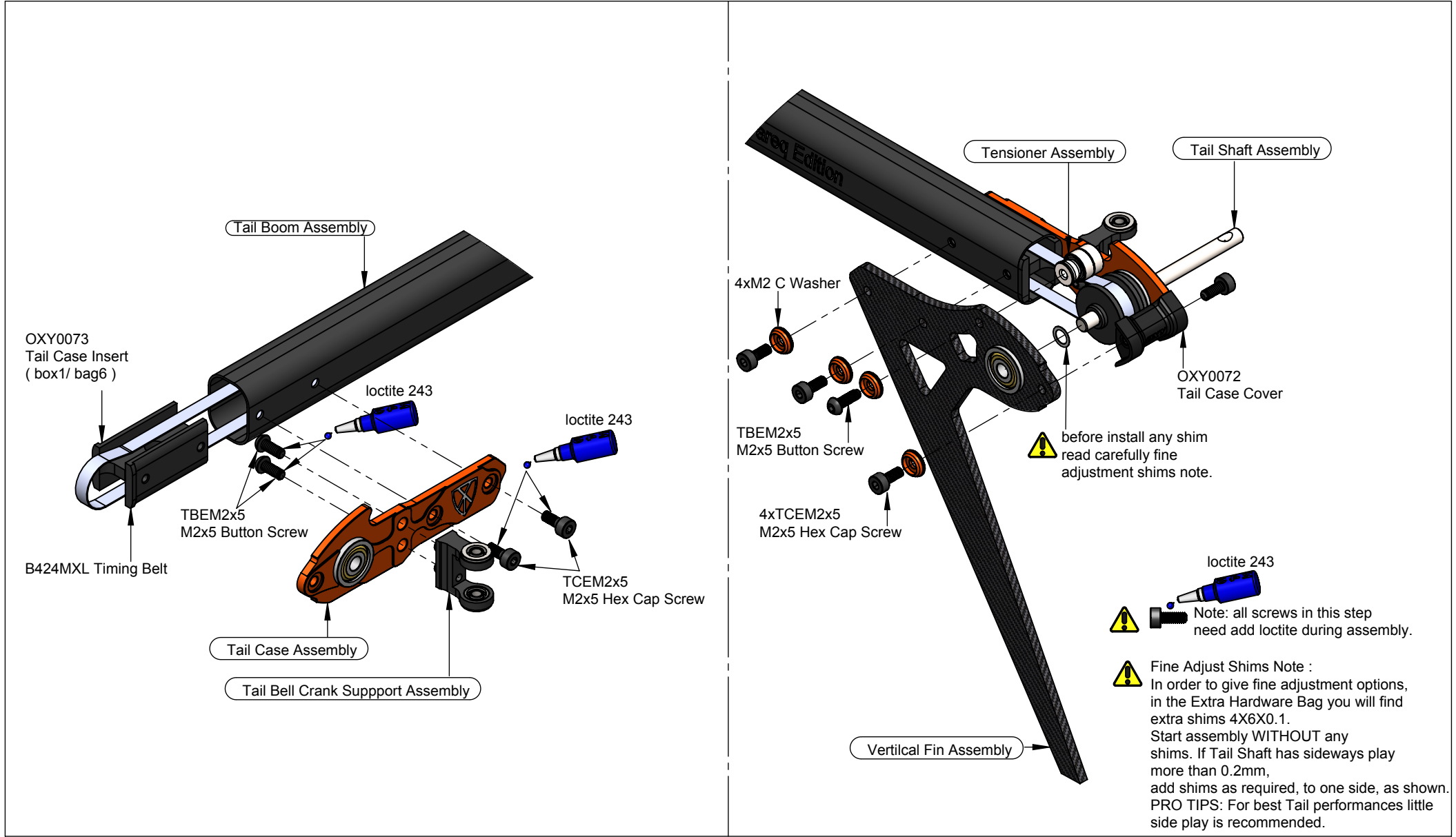


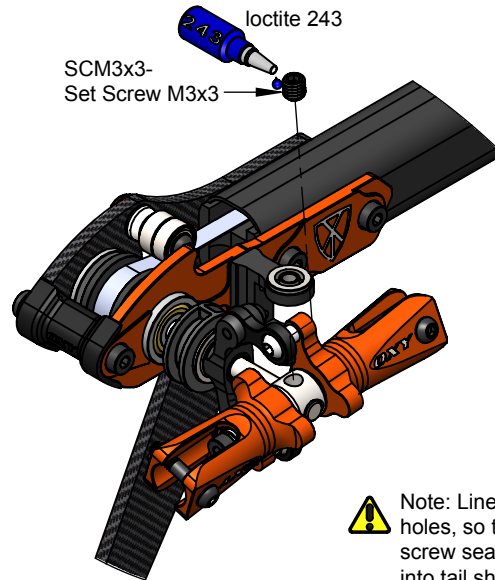
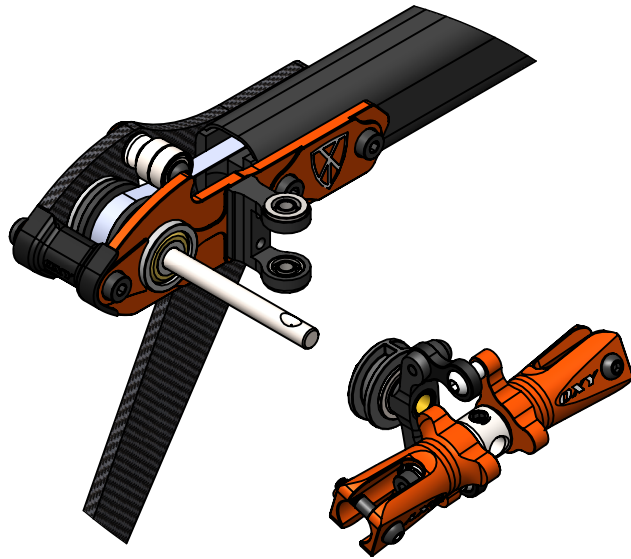
Step 5:


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

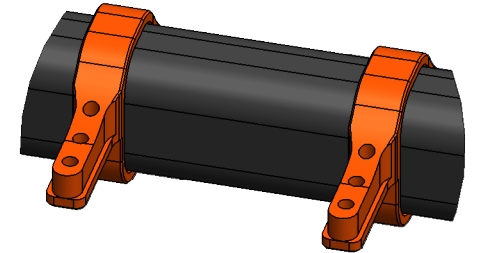
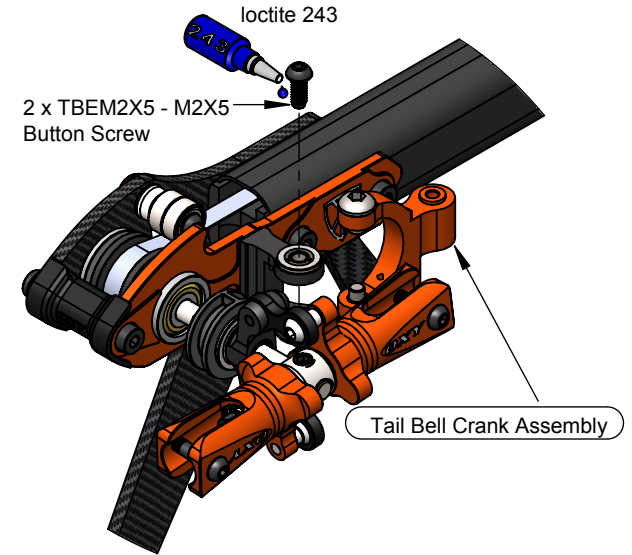


 Important Note:
This part, for tuning reasons, comes factory pre assembly, it ready to use



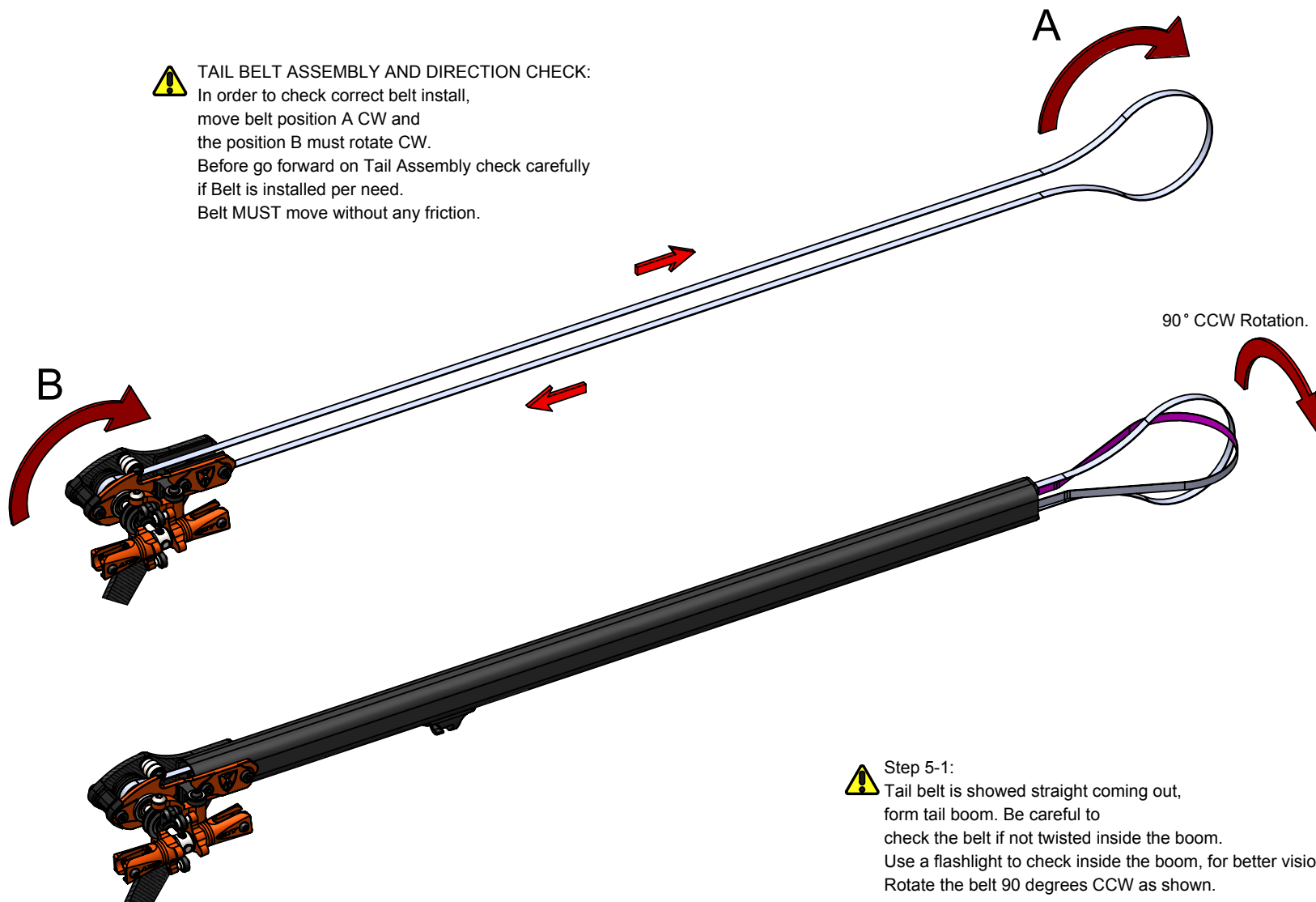


 Note: Line up the holes, so the set screw seats correctly into tail shaft lock hole.

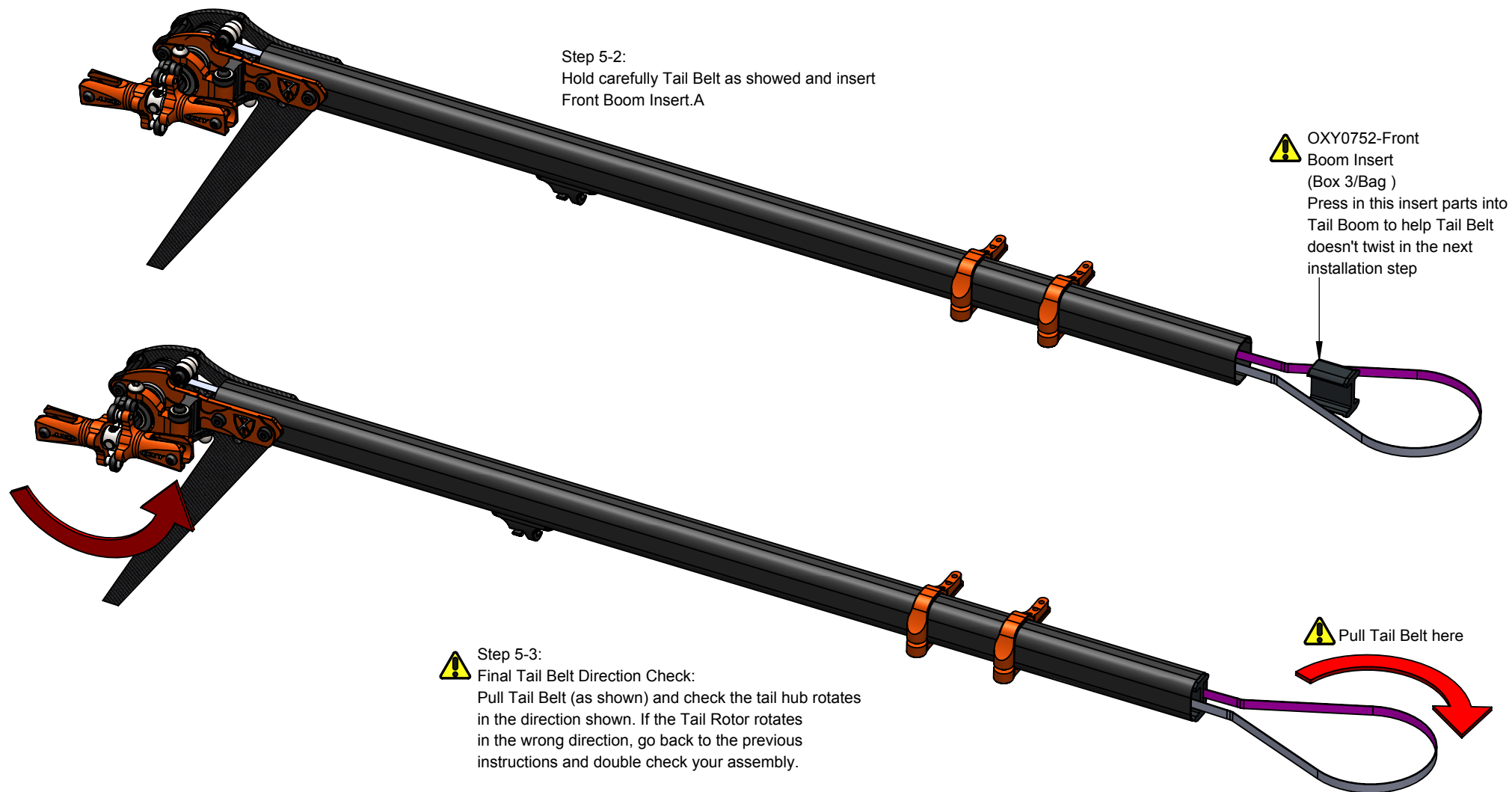


**TAIL BELT ASSEMBLY AND DIRECTION CHECK:**

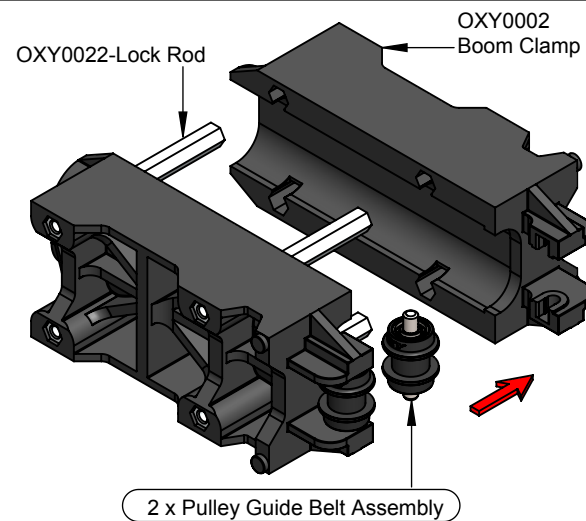
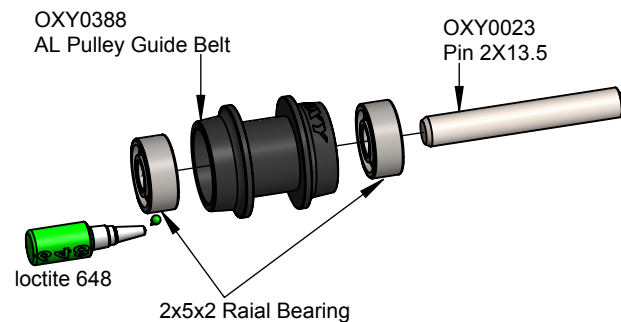
In order to check correct belt install,
move belt position A CW and
the position B must rotate CW.
Before go forward on Tail Assembly check carefully
if Belt is installed per need.
Belt MUST move without any friction.

**Step 5-1:**

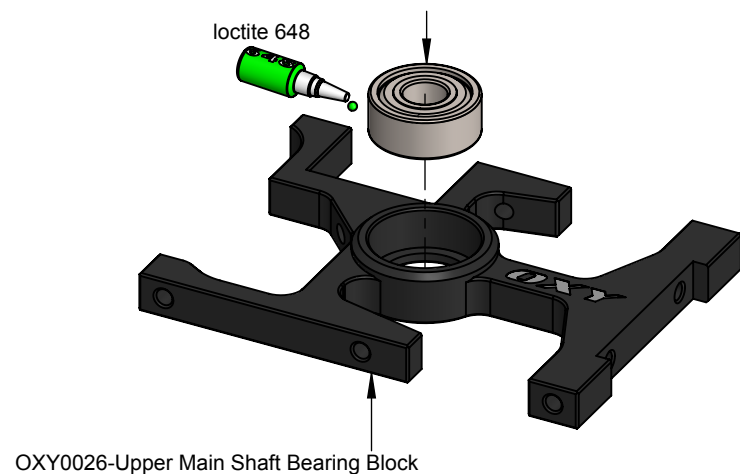
Tail belt is showed straight coming out,
form tail boom. Be careful to
check the belt if not twisted inside the boom.
Use a flashlight to check inside the boom, for better vision.
Rotate the belt 90 degrees CCW as shown.



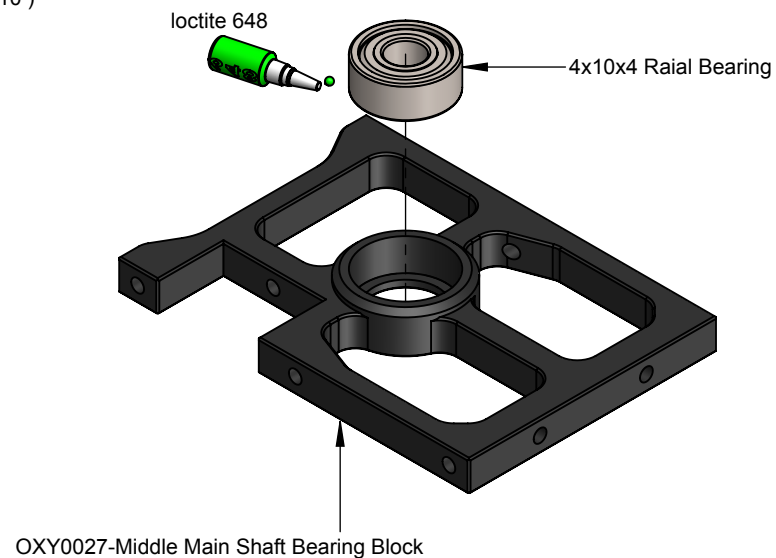
Boom Clamp Assembly (box1/bag8)



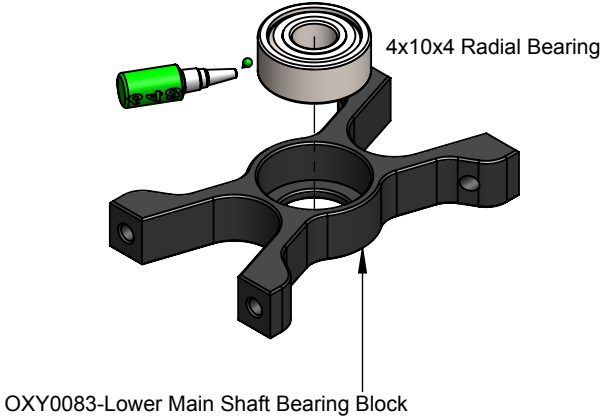
Upper Bearing Block Assembly (box1/bag9)



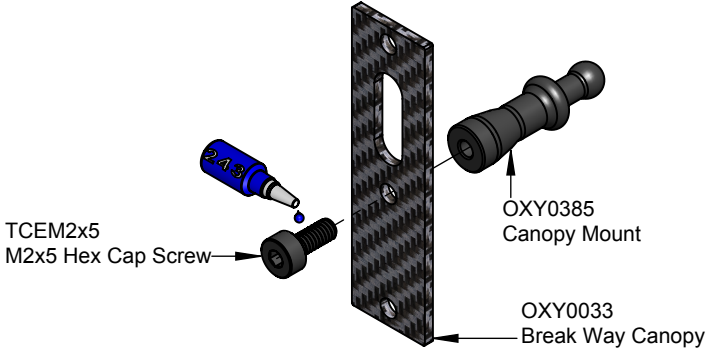
Middle Bearing Block Assembly (box1/bag 10)



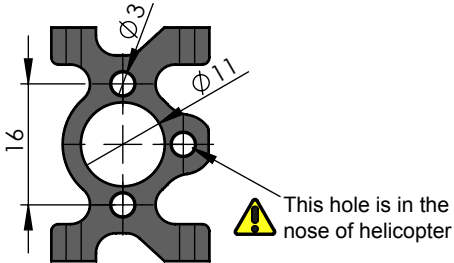
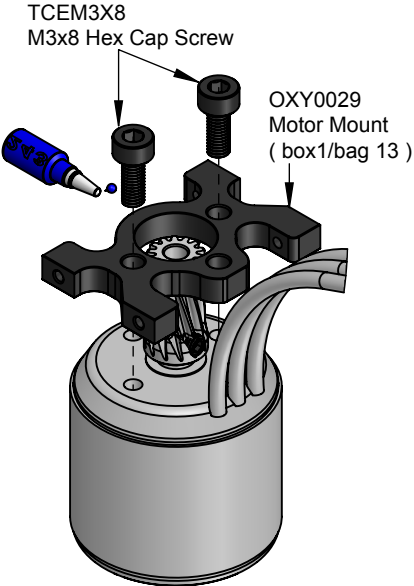
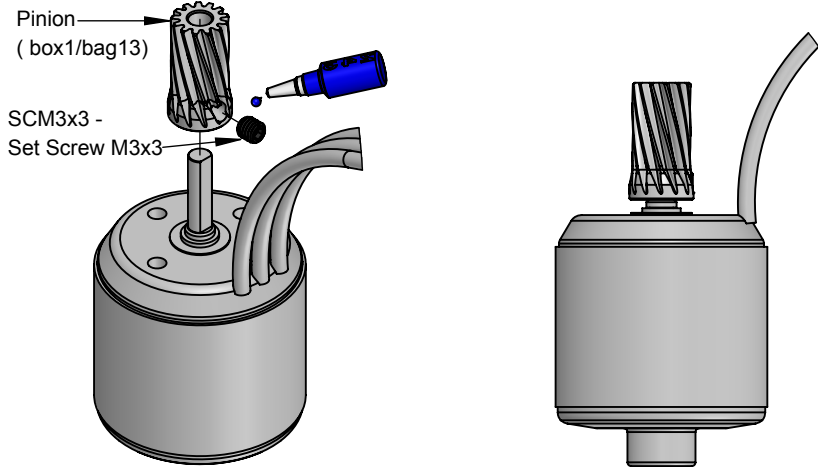
Lower Main Shaft Bearing Block
(box1/ bag 11)

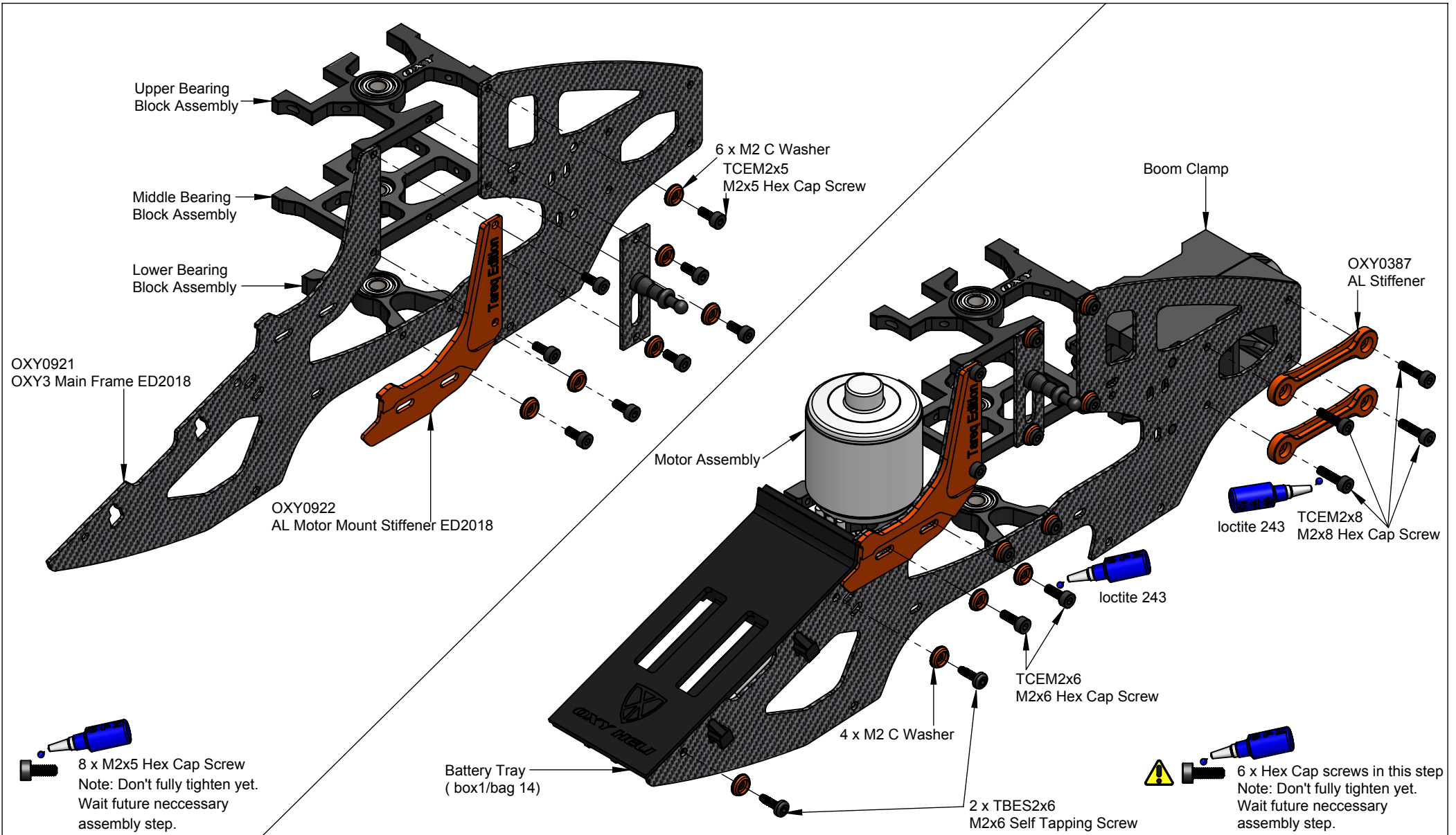


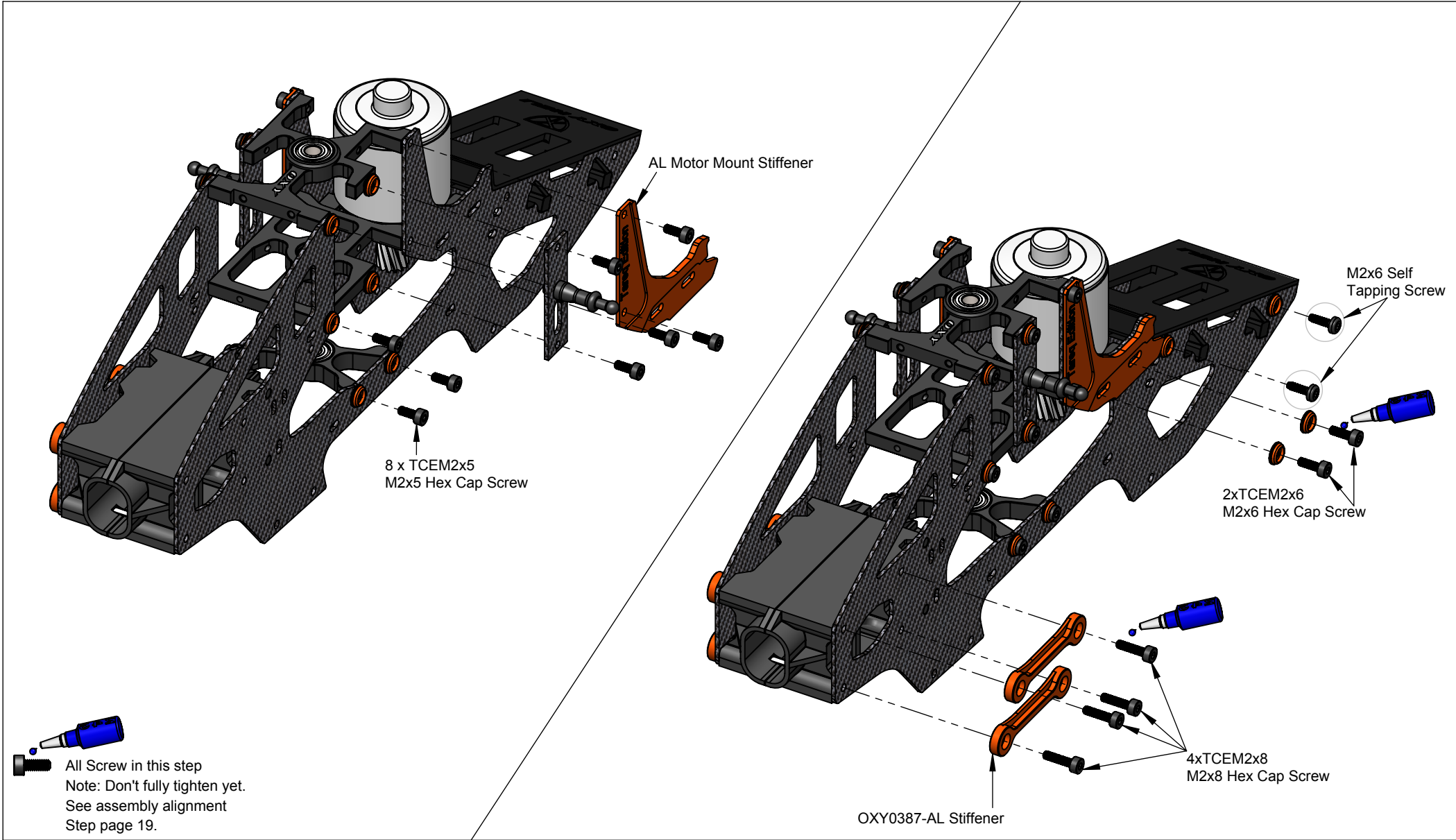
Break Away Canopy Assembly
(box1/bag 12)




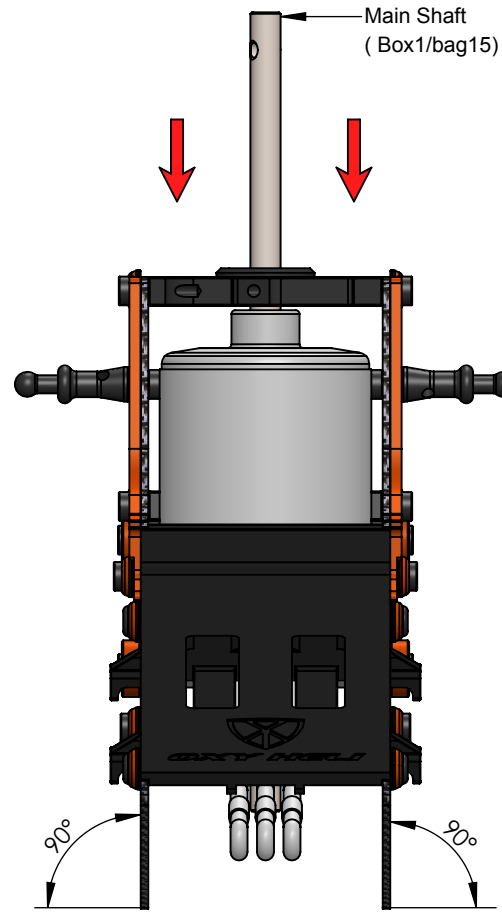
Motor Assembly
(box1/bag 13)

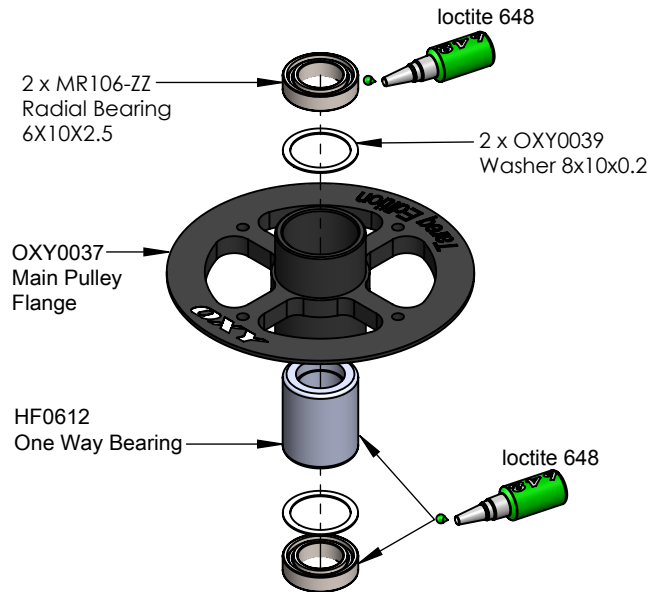





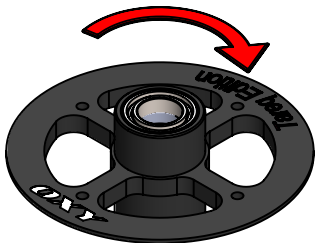



 Install main shaft with frame assembly on a flat surface, push down on both frames together and then fully tighten all M2 Hex Cap Screws (x16) holding the bearing blocks.



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.

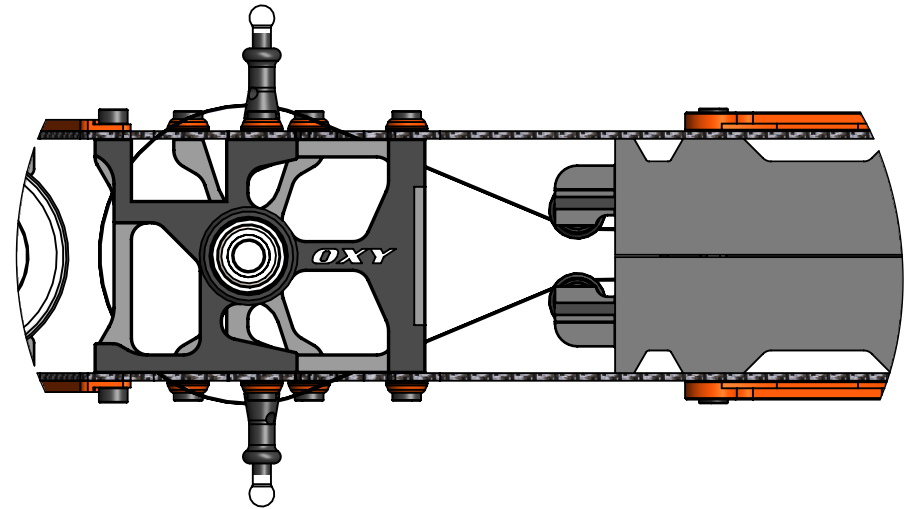
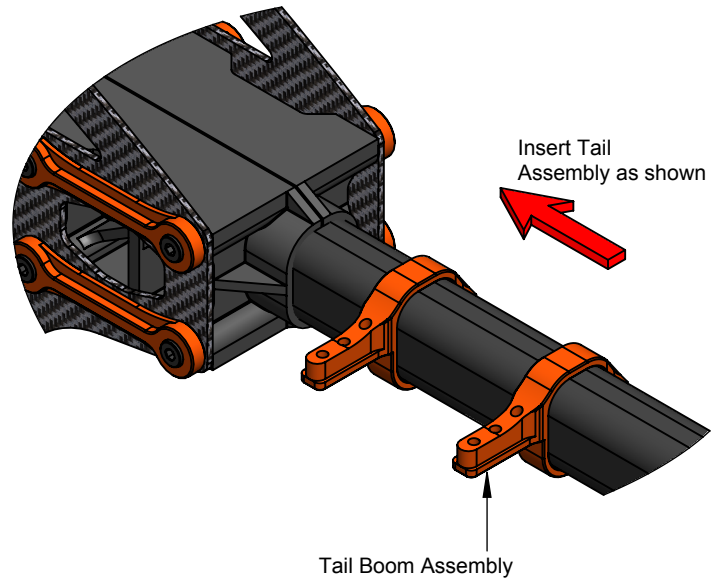
OXY0386
OXY3-CNC MAIN GEAR 140T

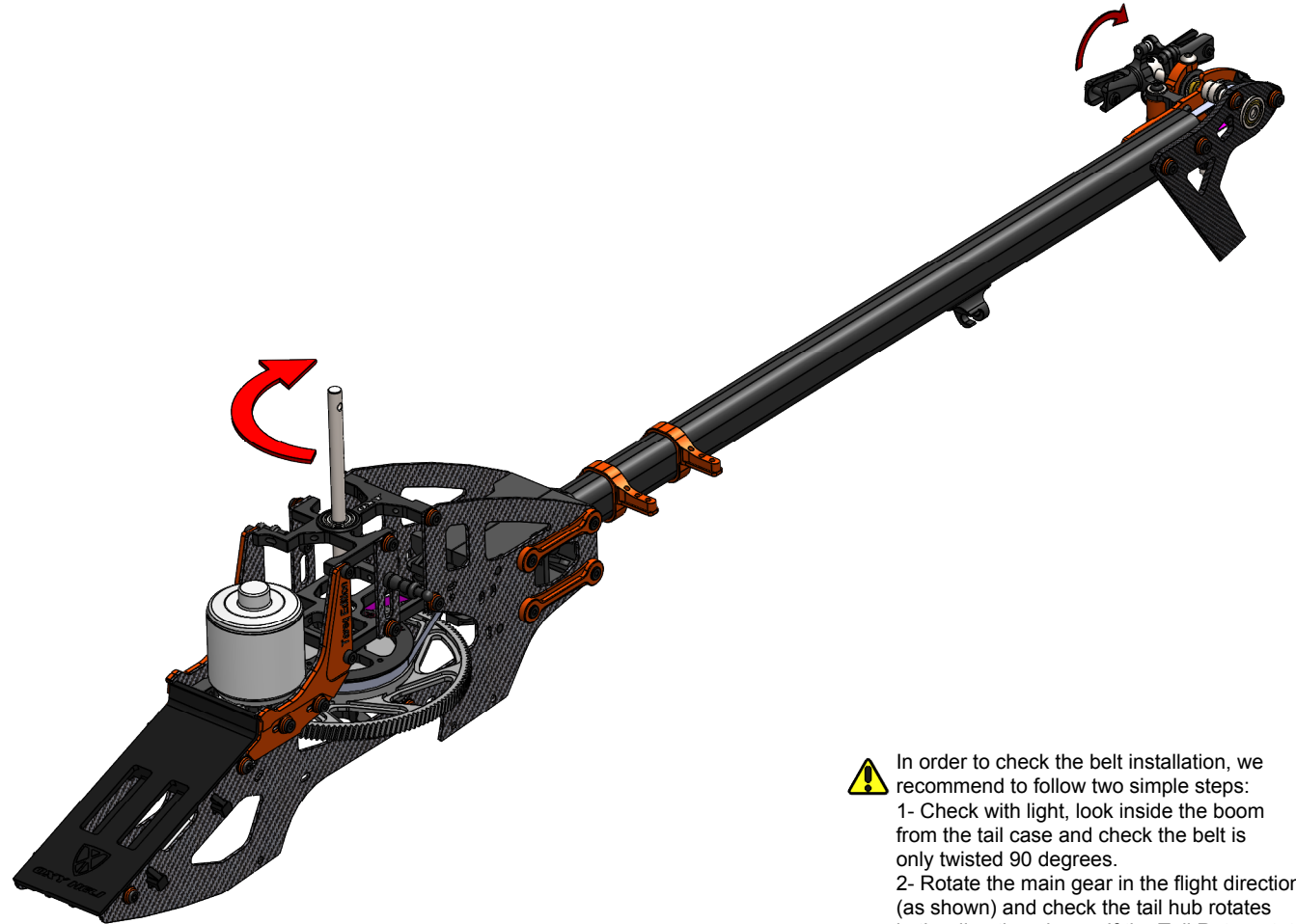
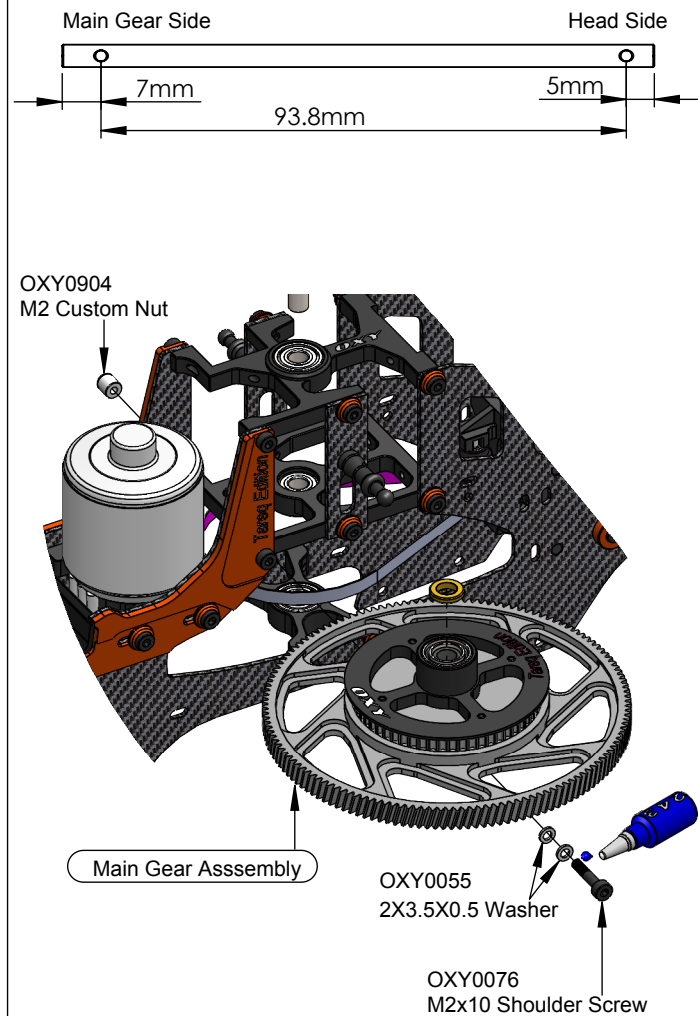
4xTCEM2x6
M2x6 Hex Cap Screw

loctite 243

OXY0040
Shim Washer 6.1X8X0.1

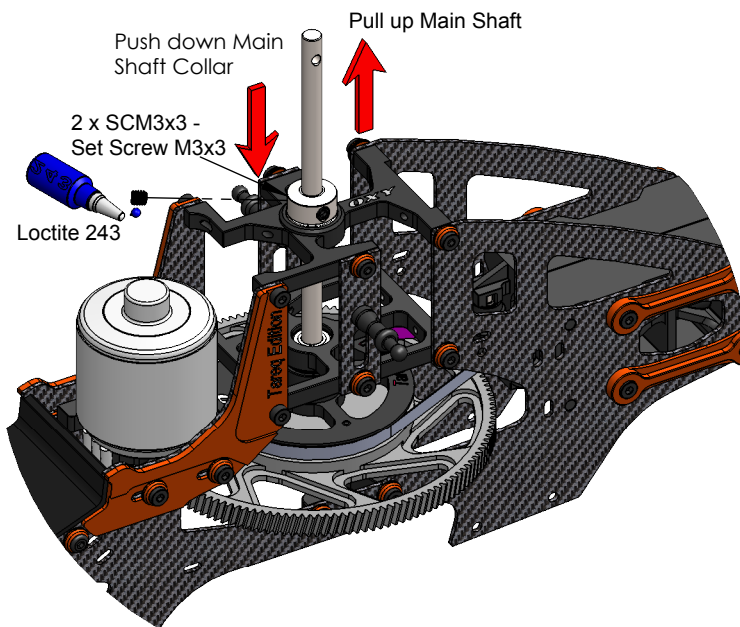
OXY0041-One Way Sleeve



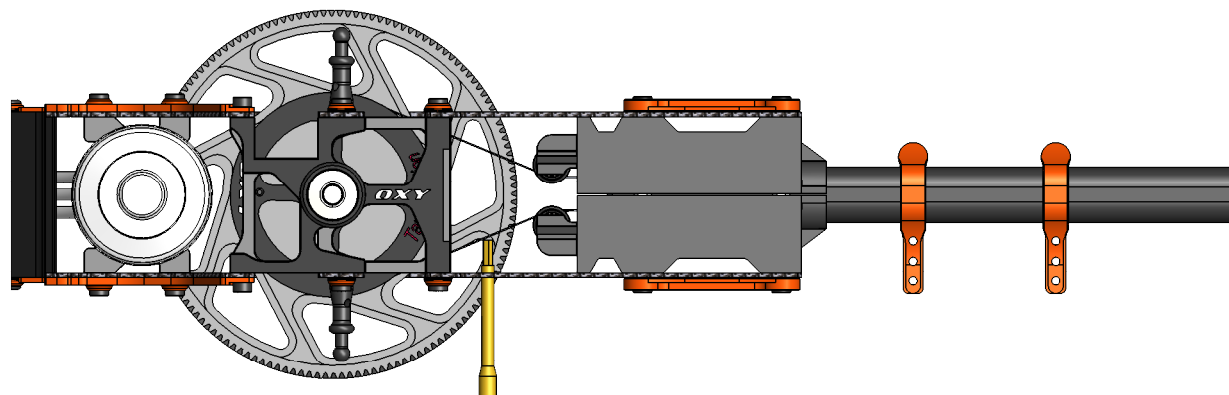
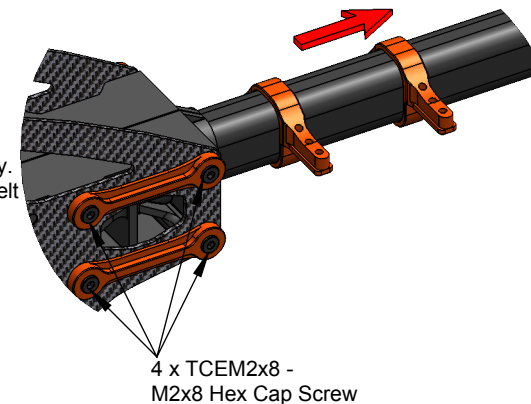


In order to check the belt installation, we recommend to follow two simple steps:

- 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

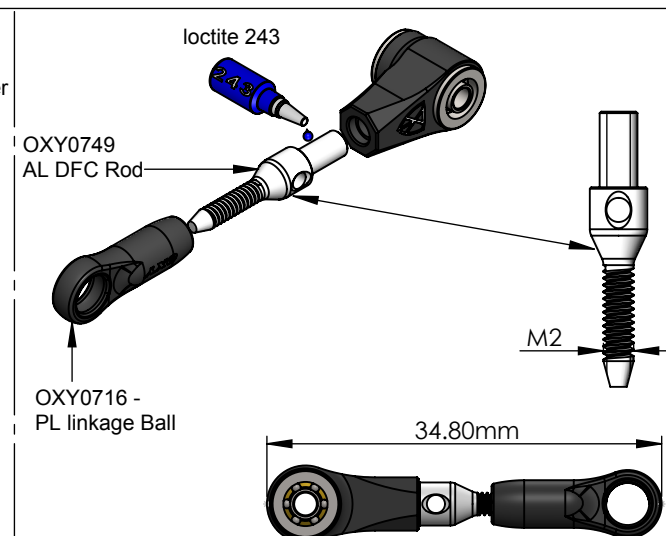
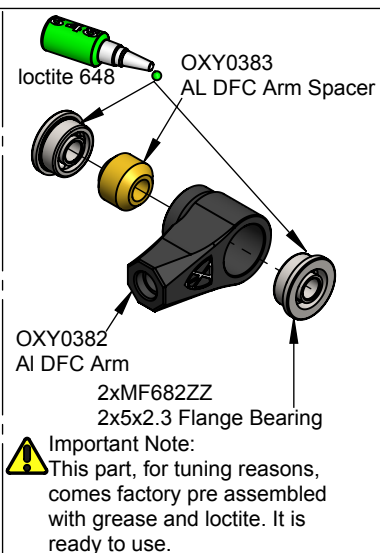
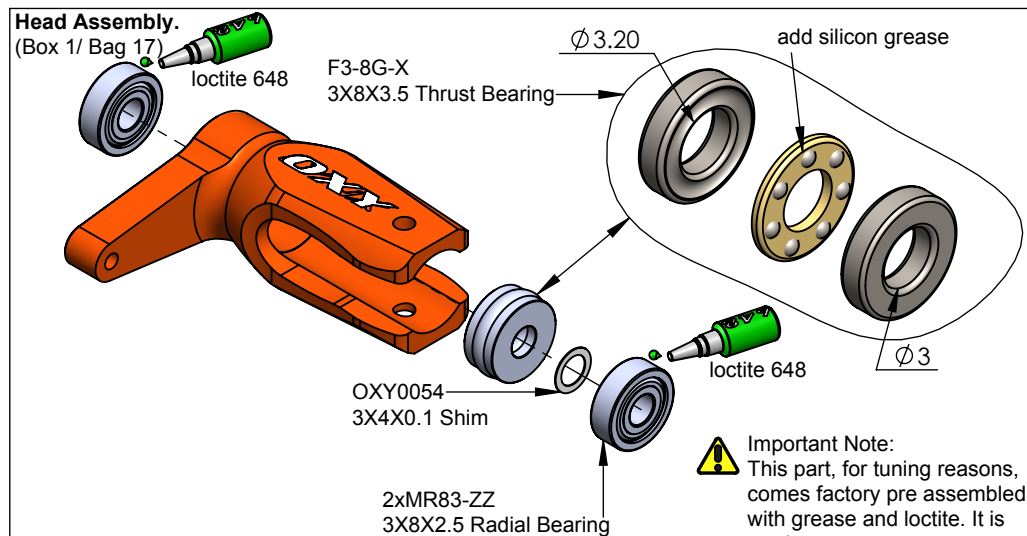


- Be sure the boom is assembled and installed correctly.
- Loosen the tail boom by loosening the eight M2.5x8 Hex Cap Screws.
- Adjust the Belt tension by pulling on the Tail Boom.
- Tighten the eight M2.5x8 Hex Cap Screws.
- The belt must have good tension. We suggest re-checking after a few flights.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

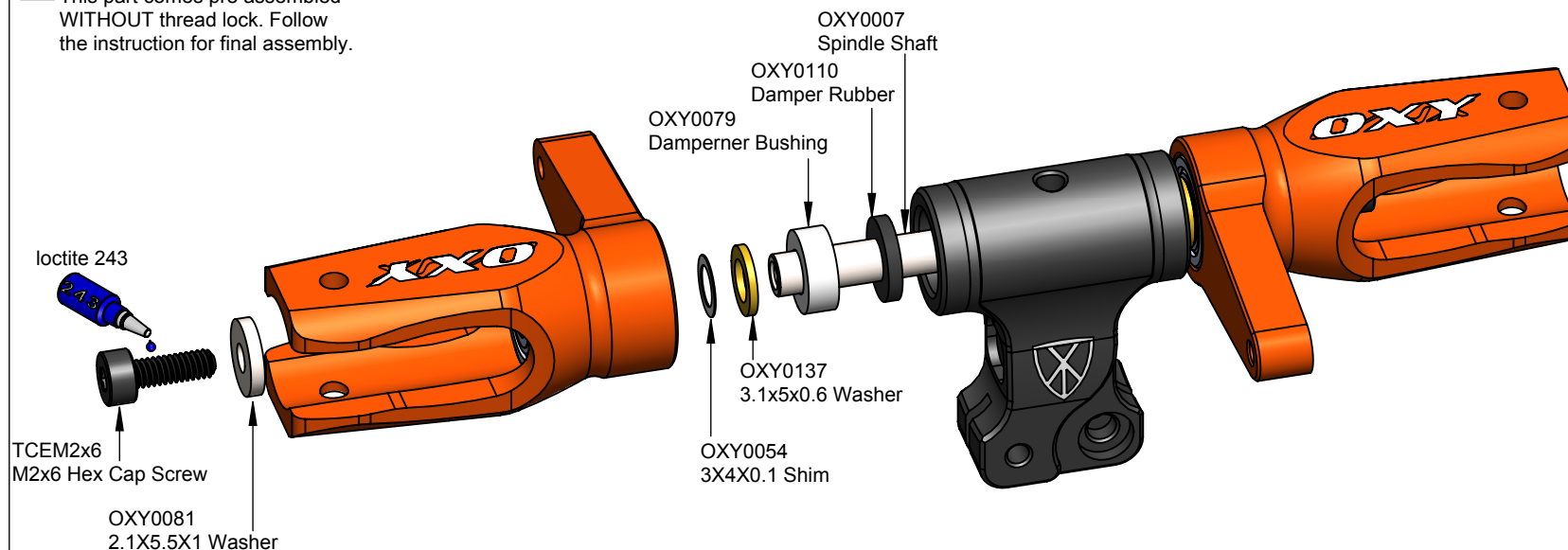


Use a Screw Driver to check Belt Tension (suggested max deflection is 1mm)

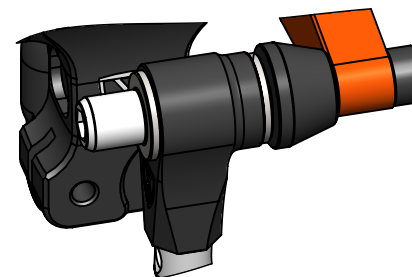
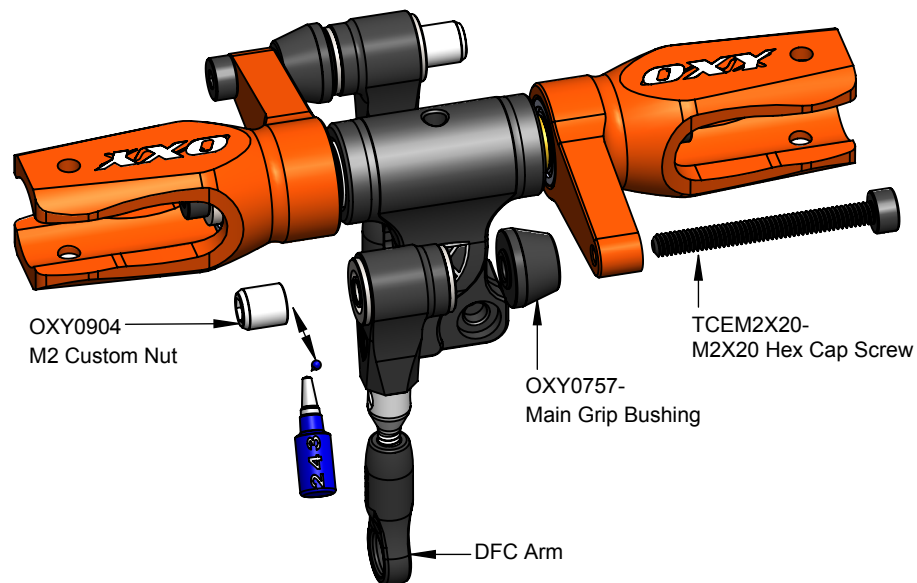
- Note: We recommend a tight Belt tension.
- If spool up get difficult, may Tail Belt is over tight, recheck and eventually loose Belt tension little bit
- Check the Belt tension again after the first 2 flights.
- With a new Tail Belt, when the head is rotated slowly, it is normal to hear a tooth sound 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.



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

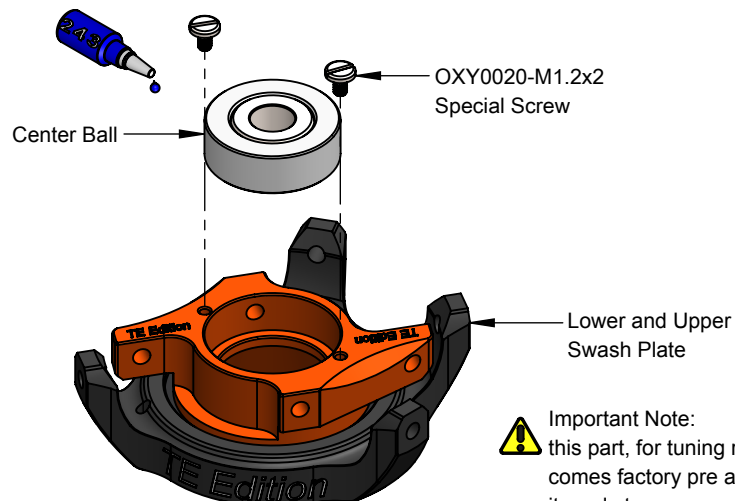


Important Note:
This part comes pre assembled
WITHOUT thread lock. Follow
the instruction for final assembly

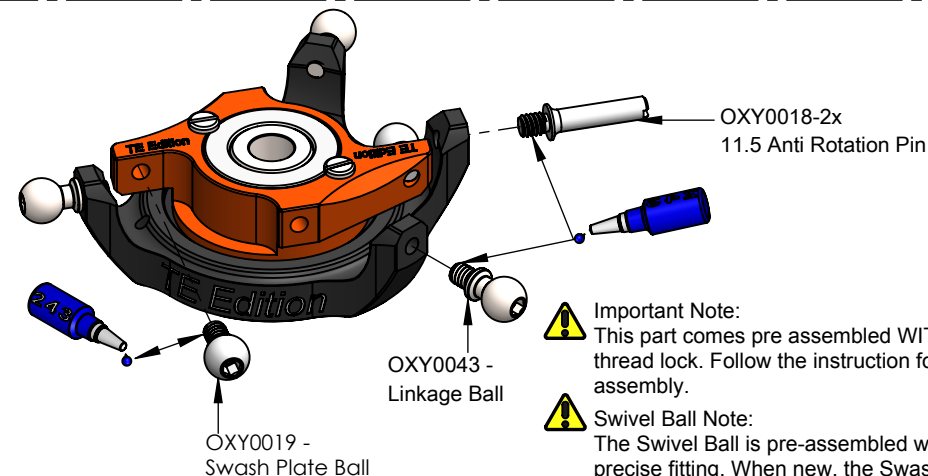


Once you finish assembly, ensure the DFC
Arms can rotate without friction. If the DFC
Arms are assembled correctly, rotation
should be smooth and without friction. In
case of any friction, recheck each
component and re-assembly as necessary.

Swash Plate Assembly (Box1/Bag18)



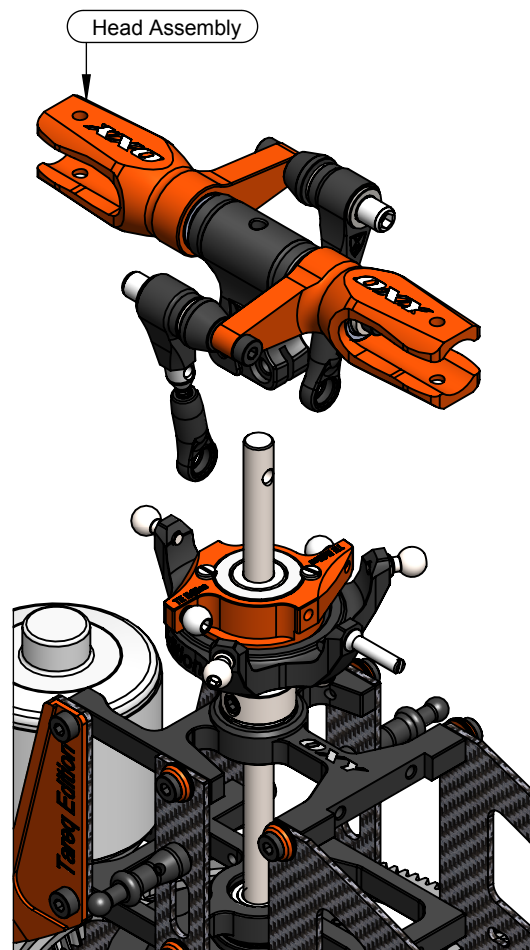
Important Note:
this part, for tuning reasons,
comes factory pre assembled,
it ready to use.



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



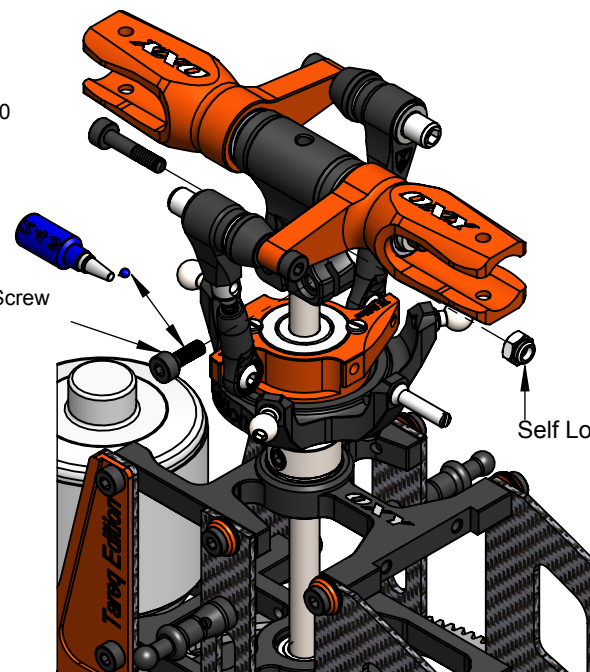
Swivel Ball Note:
The Swivel Ball is pre-assembled with a
precise fitting. When new, the Swash Plate
center ball will have a little friction. After a
few flights and "break-in" it will come smooth,
keeping the best precision without play.



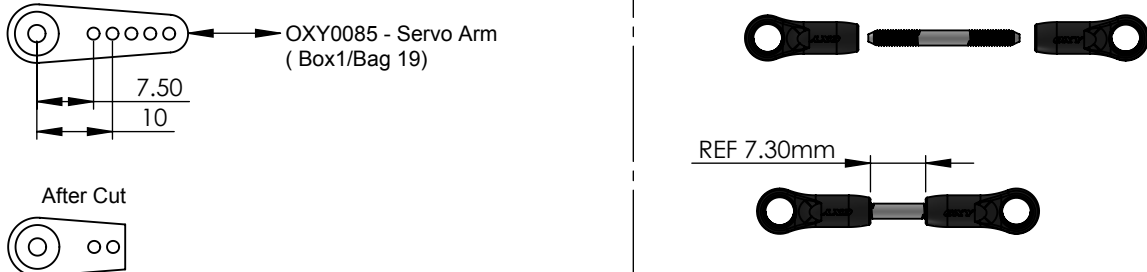

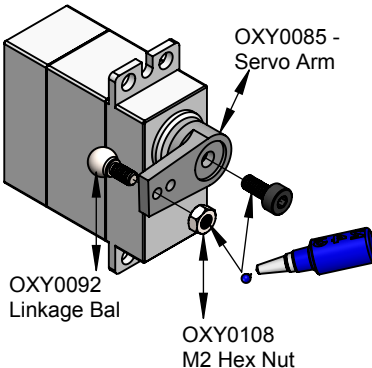
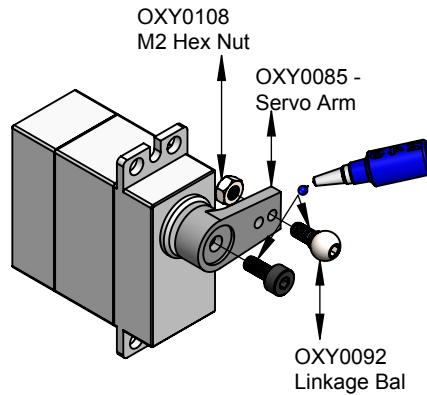
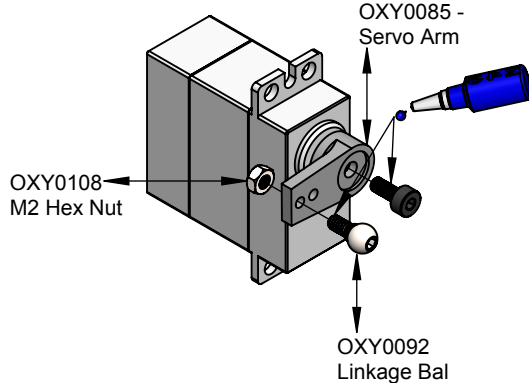
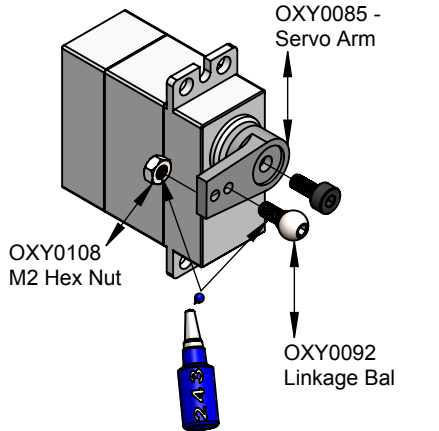
OXY0076-M2X10
Shoulder Hex
Cap Screw

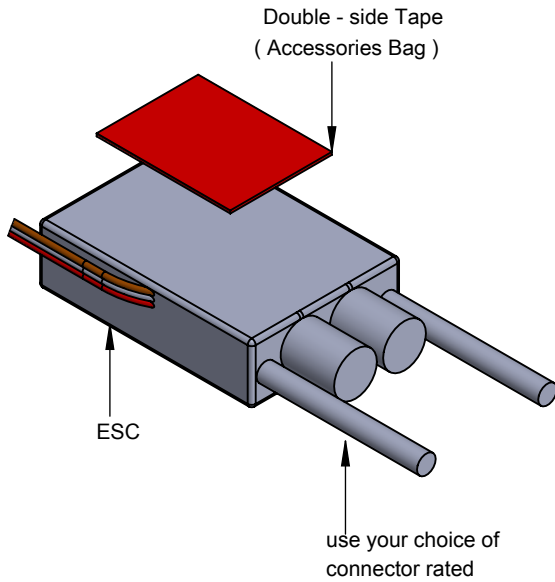
TCEM2x6
M2x6 Hex Cap Screw


Self Lock Nut M2

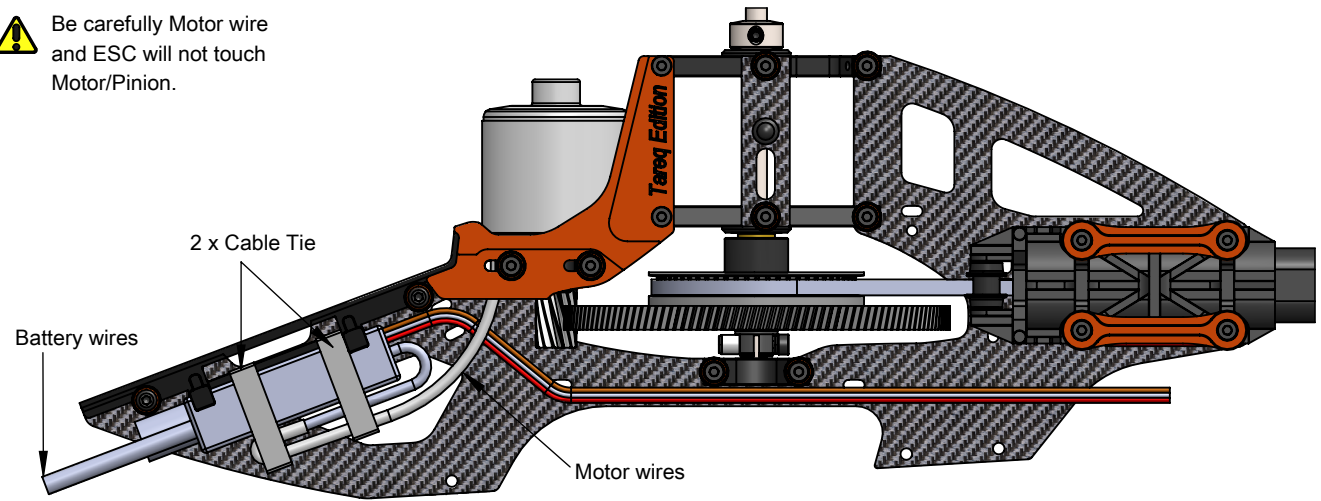



- You should now do some initial setup of your FBL unit and servos.
- We recommend you select a new model in your transmitter, and reset your FBL unit and start with a clean setup in it as well.
- After binding your transmitter to the receiver system used with the FBL unit, work your way through the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

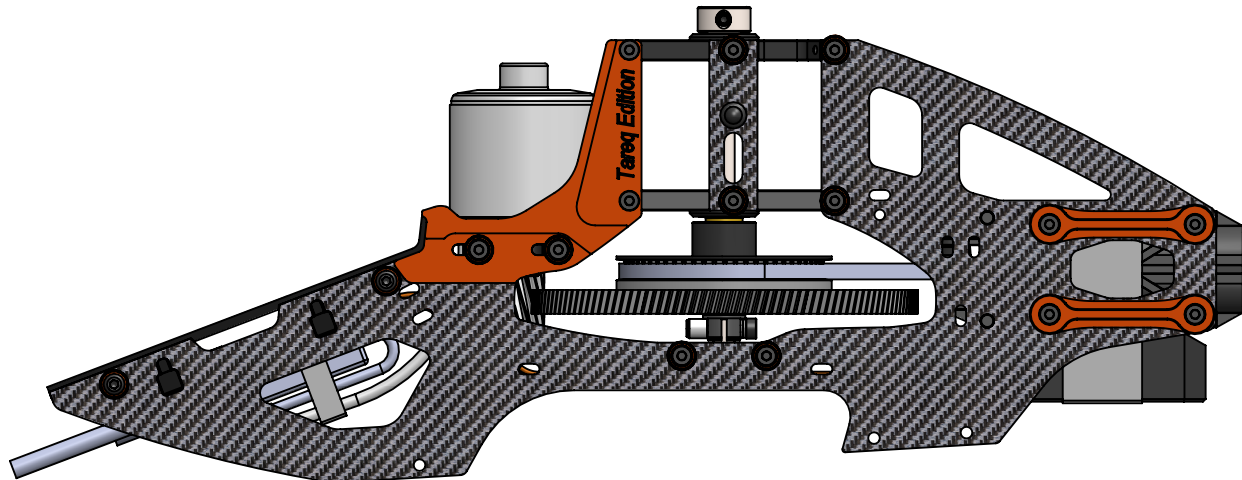
<p>Linkage Ball Position</p>  <p>OXY0085 - Servo Arm (Box1/Bag 19)</p> <p>7.50 10</p> <p>After Cut</p> <p>REF 7.30mm</p>	 <p>It is really important the servo rods screw onto the linkages the same amount. The Plastic ball links have a Lynx logo to give you information about turn adjustment, but have a symmetrical ball socket shape and can be installed in either direction to achieve the best fine tuning.</p>		
<p>Front Cyclic Servo</p>  <p>OXY0085 - Servo Arm</p> <p>OXY0092 Linkage Bal</p> <p>OXY0108 M2 Hex Nut</p>	 <p>OXY0108 M2 Hex Nut</p> <p>OXY0085 - Servo Arm</p> <p>OXY0092 Linkage Bal</p>	 <p>OXY0108 M2 Hex Nut</p> <p>OXY0085 - Servo Arm</p> <p>OXY0092 Linkage Bal</p>	 <p>OXY0108 M2 Hex Nut</p> <p>OXY0085 - Servo Arm</p> <p>OXY0092 Linkage Bal</p>

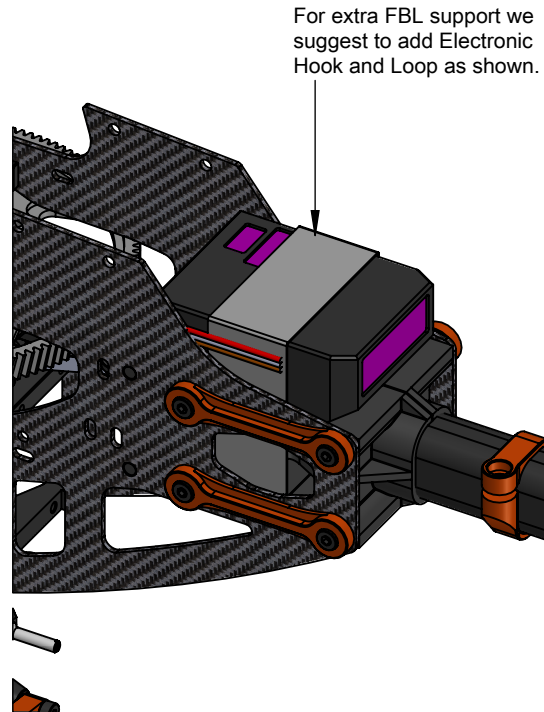
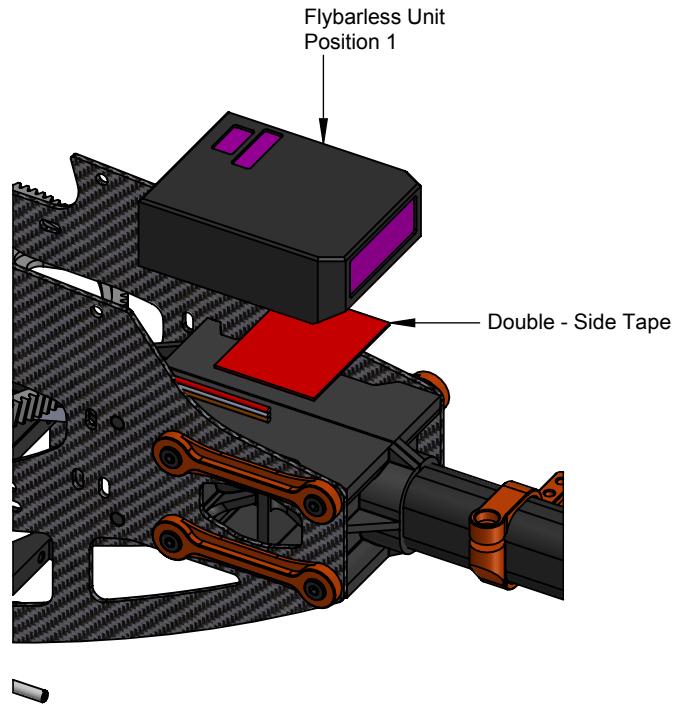



 Be carefully Motor wire
and ESC will not touch
Motor/Pinion.

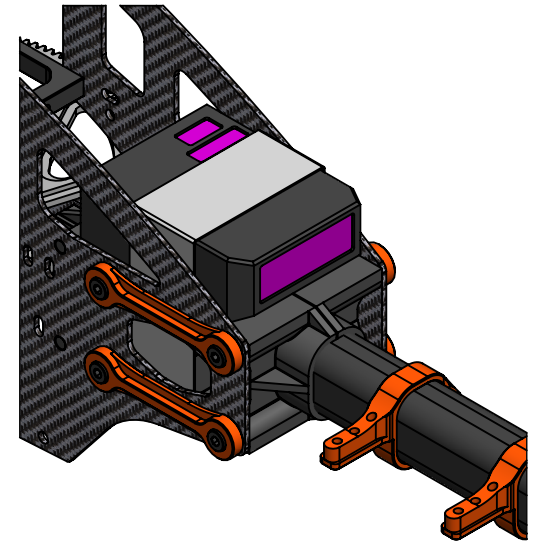


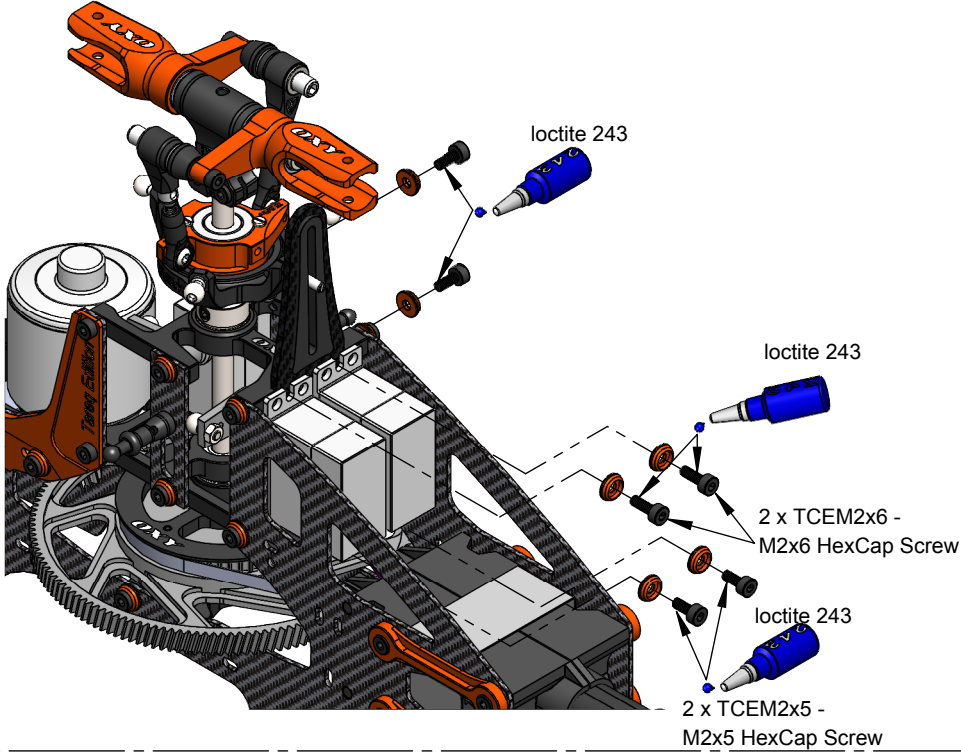
 Use 3 x cable ties, to secure the Throttle ESC wire to the main frame. Use the Frame
built-in socket for best holding. In this Step connect the Motor and ESC Wires but don't
secure yet. Wait till the final motor rotation check, once the FBL system is set up.
NOTE: To reverse Motor rotation direction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



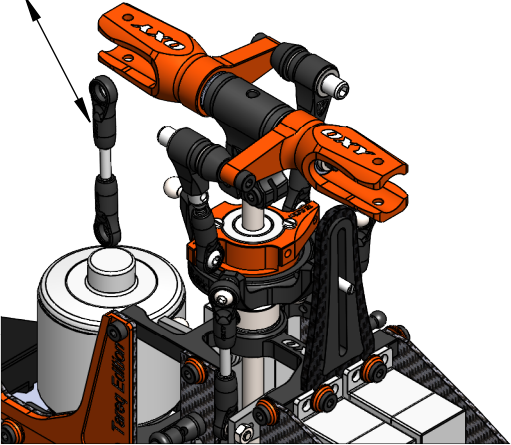


 The FBL system can be installed at the bottom or top of the boom clamp. We suggest to use the bottom for easy wiring and servo removal.

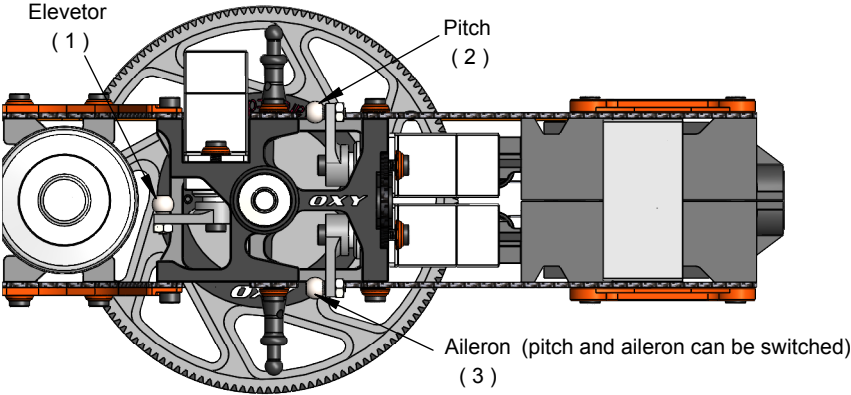




3 x Servo Rod Assembly

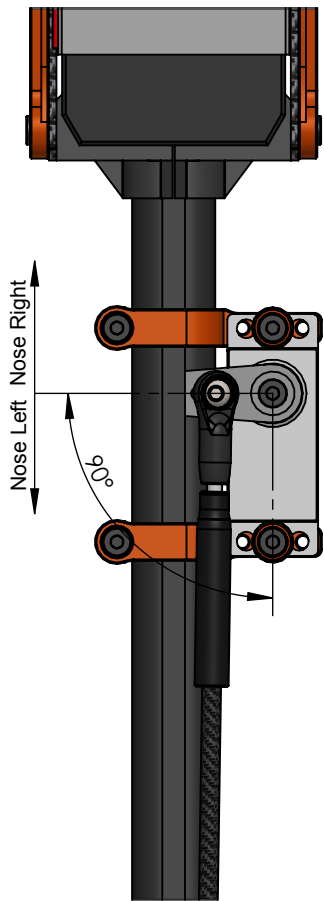


Servo Layout

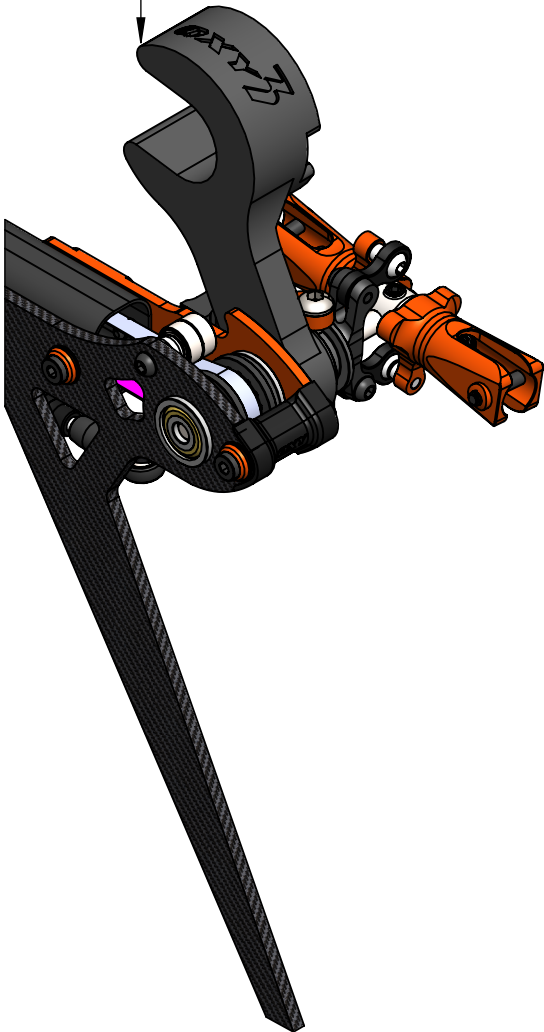




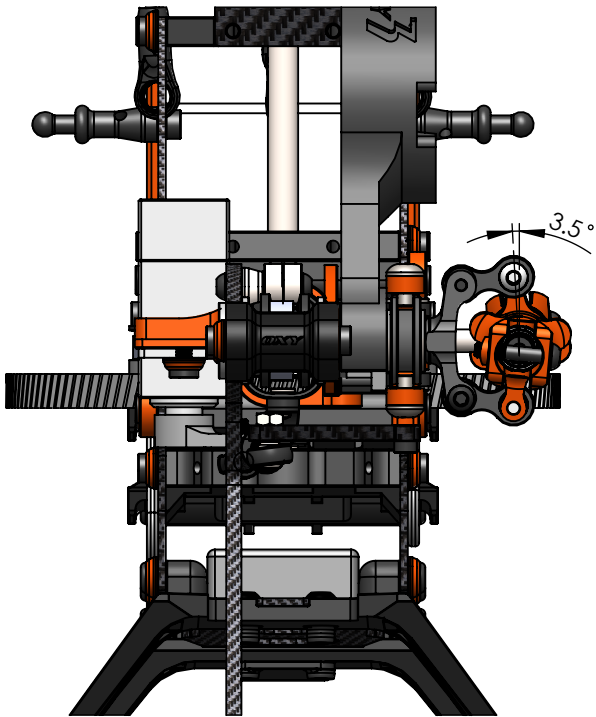
Arm position with centered Rudder stick.



Leveler
(Accessories Bag)

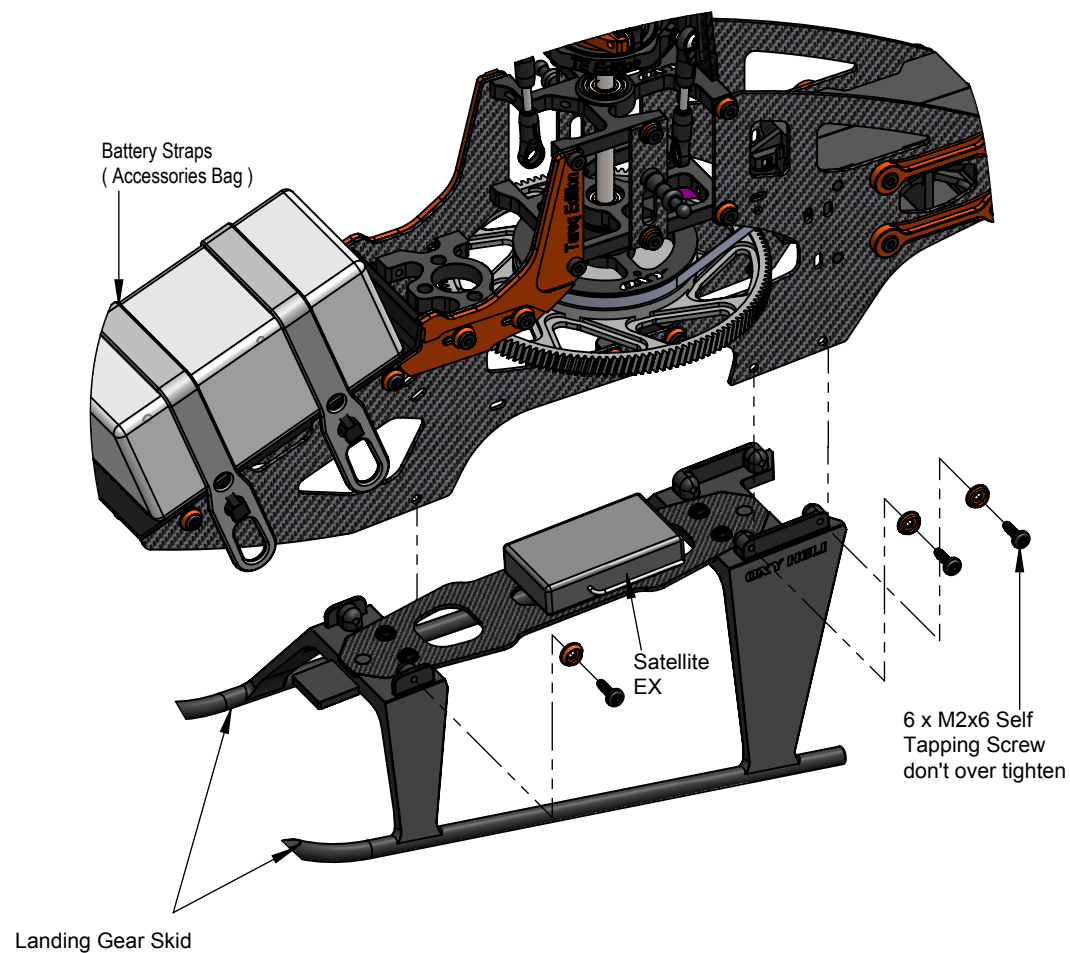


With Rudder Stick centered and the Tail Servo Arm in the center position, adjust the Tail Push Rod length until the Tail Bell Crank and Tail Case Plate are parallel as shown.

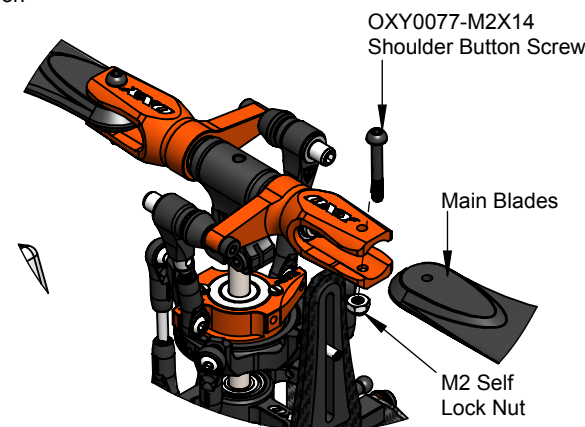


The Oxy 3 Tail System has approximately 3.5 of counter torque with the Tail Bell Crank set per instructions.

Landing Gear & Battery Installation

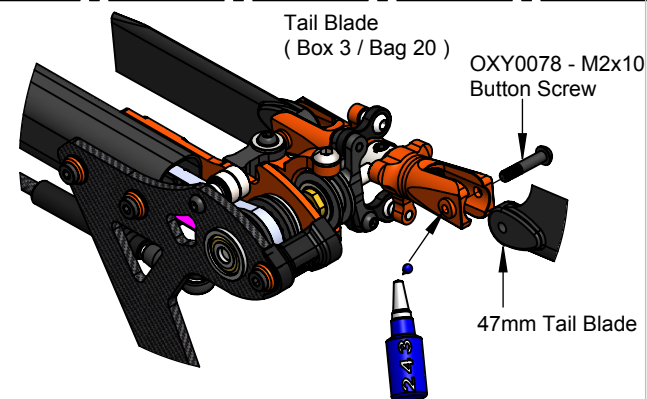


Main Blades Installation



⚠ 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.

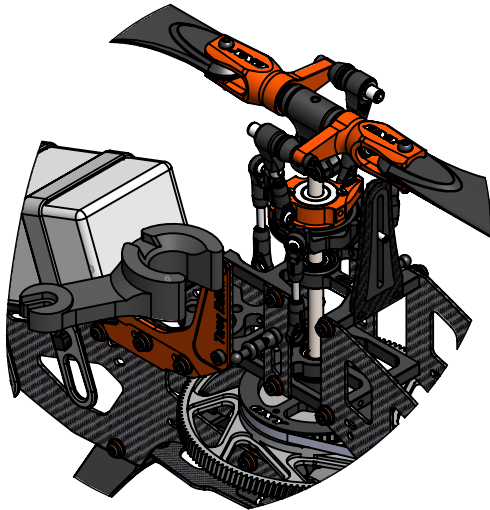
Tail Set Up:

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

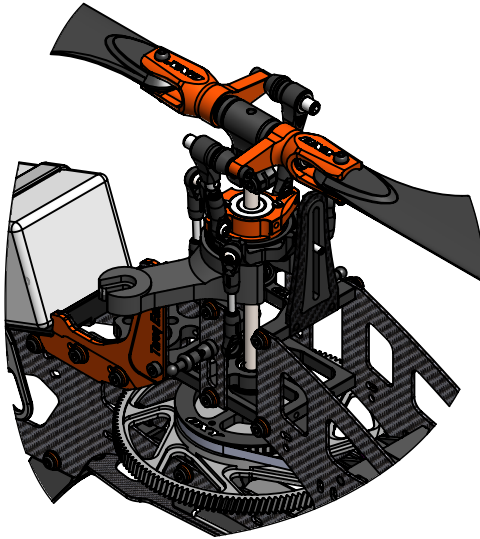
IKON / Brain = 20%


Mini V-Bar = 250 Heli suggested gain.

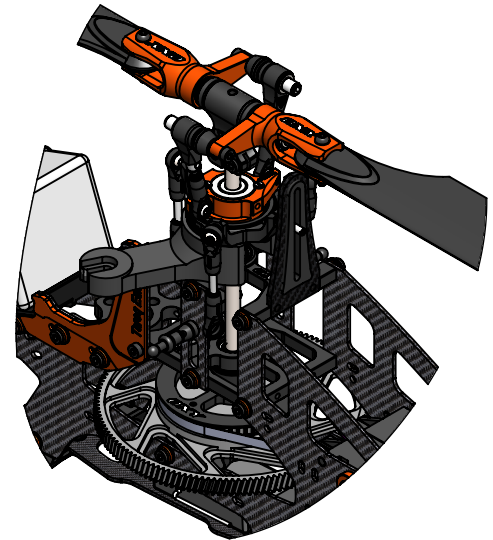
 Lift up swash plate as shown to have space for inserting Leveler.

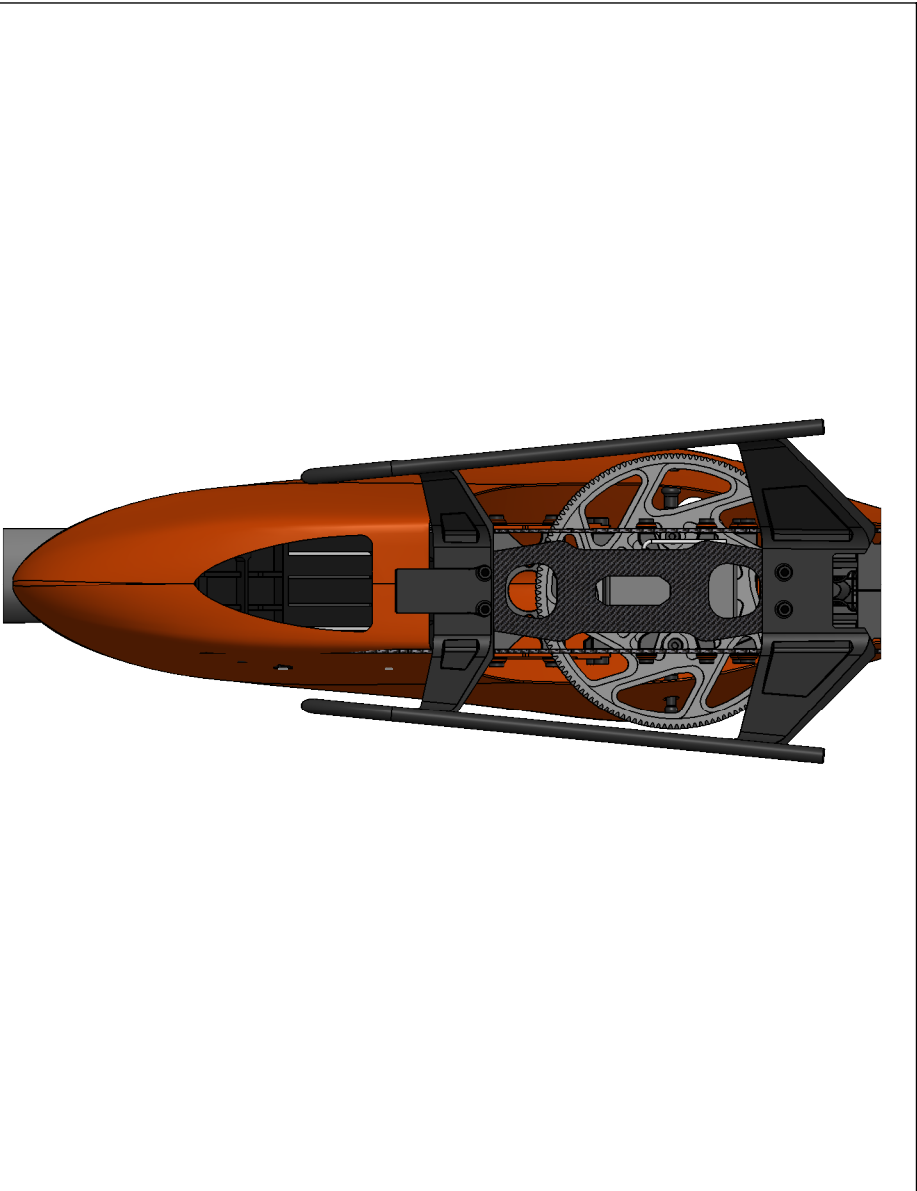


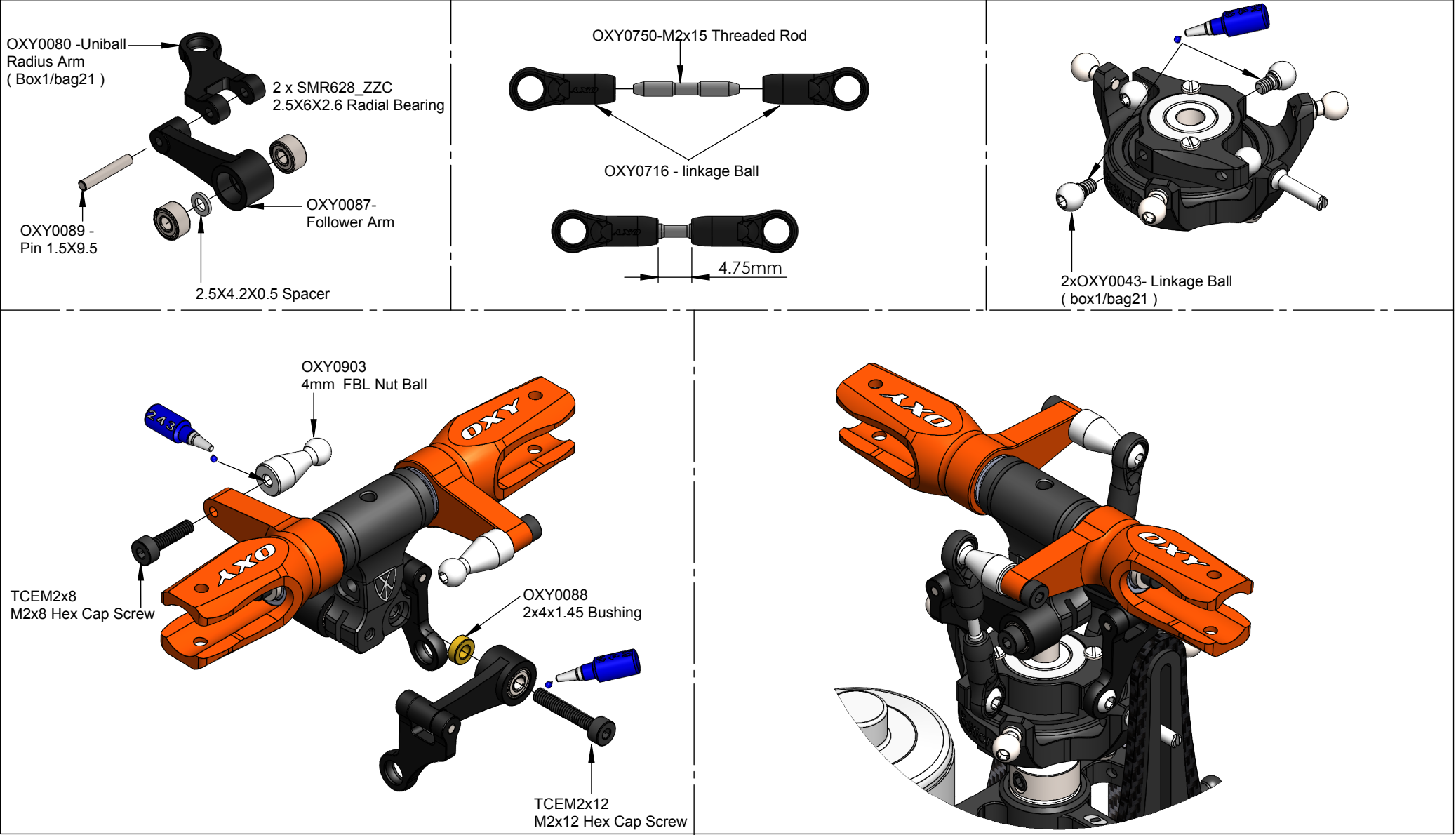
 Rotate Leveler as shown

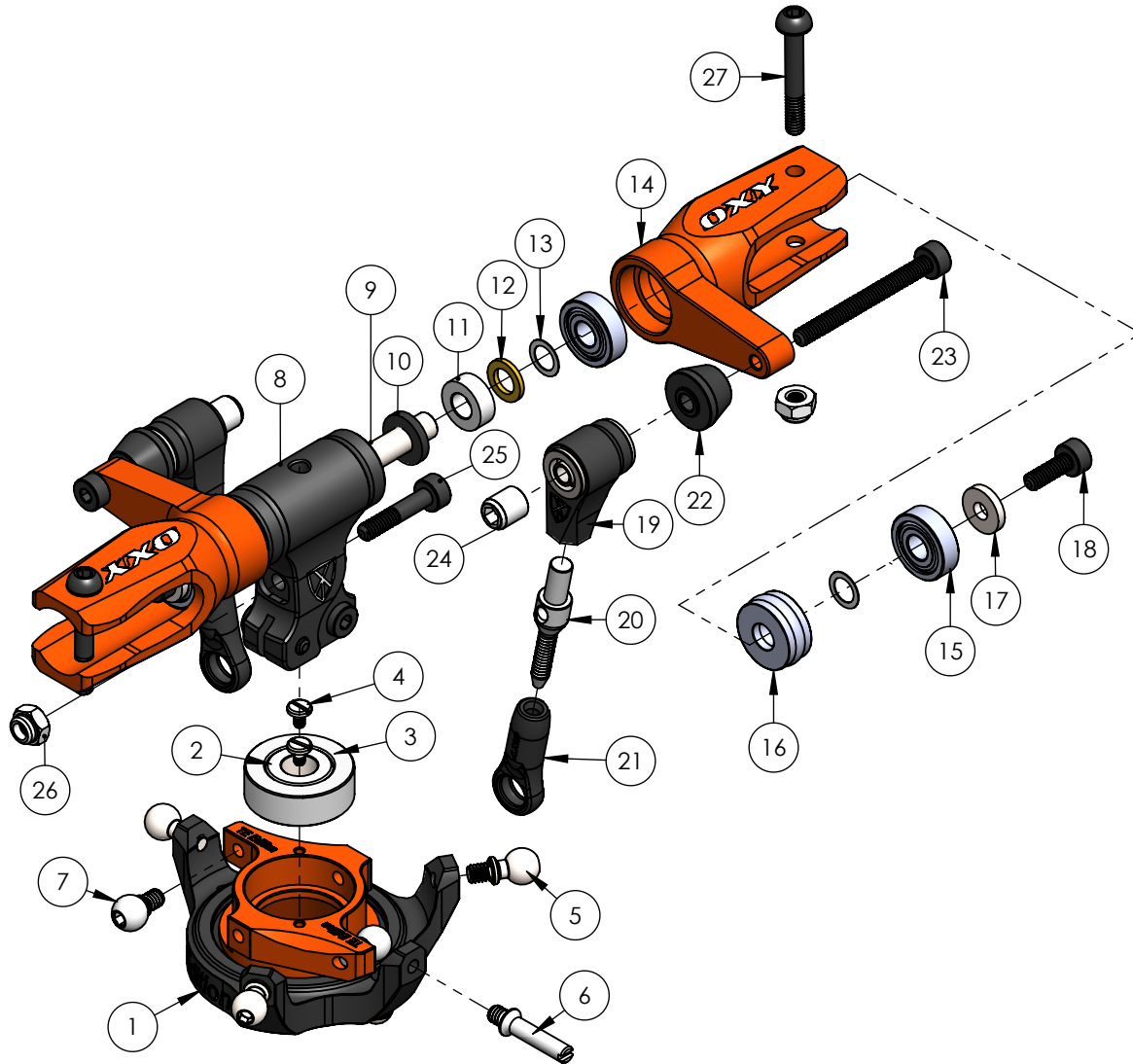


 Lower Swash Plate down until Swash Plate touch Leveler as shown.

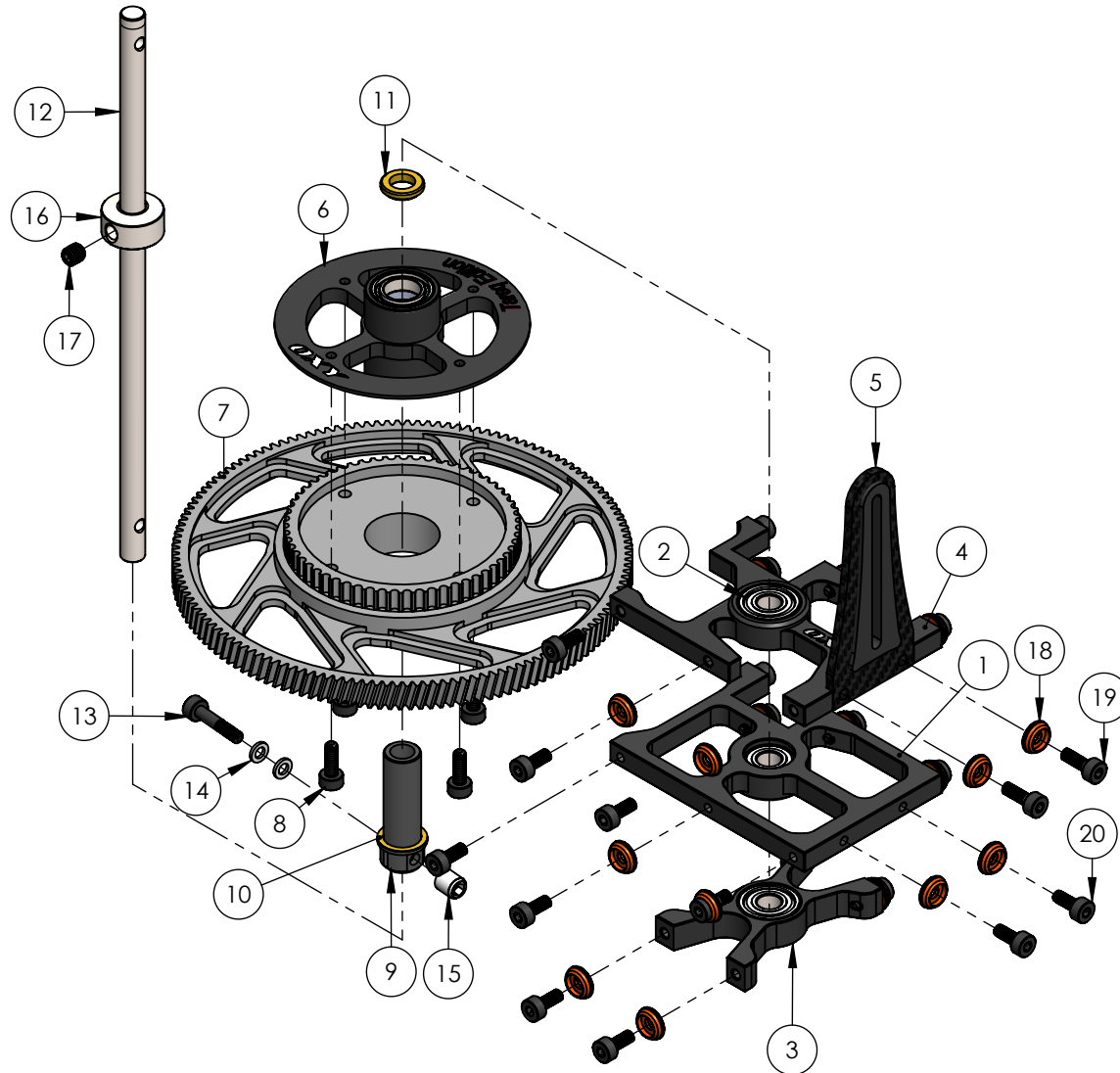




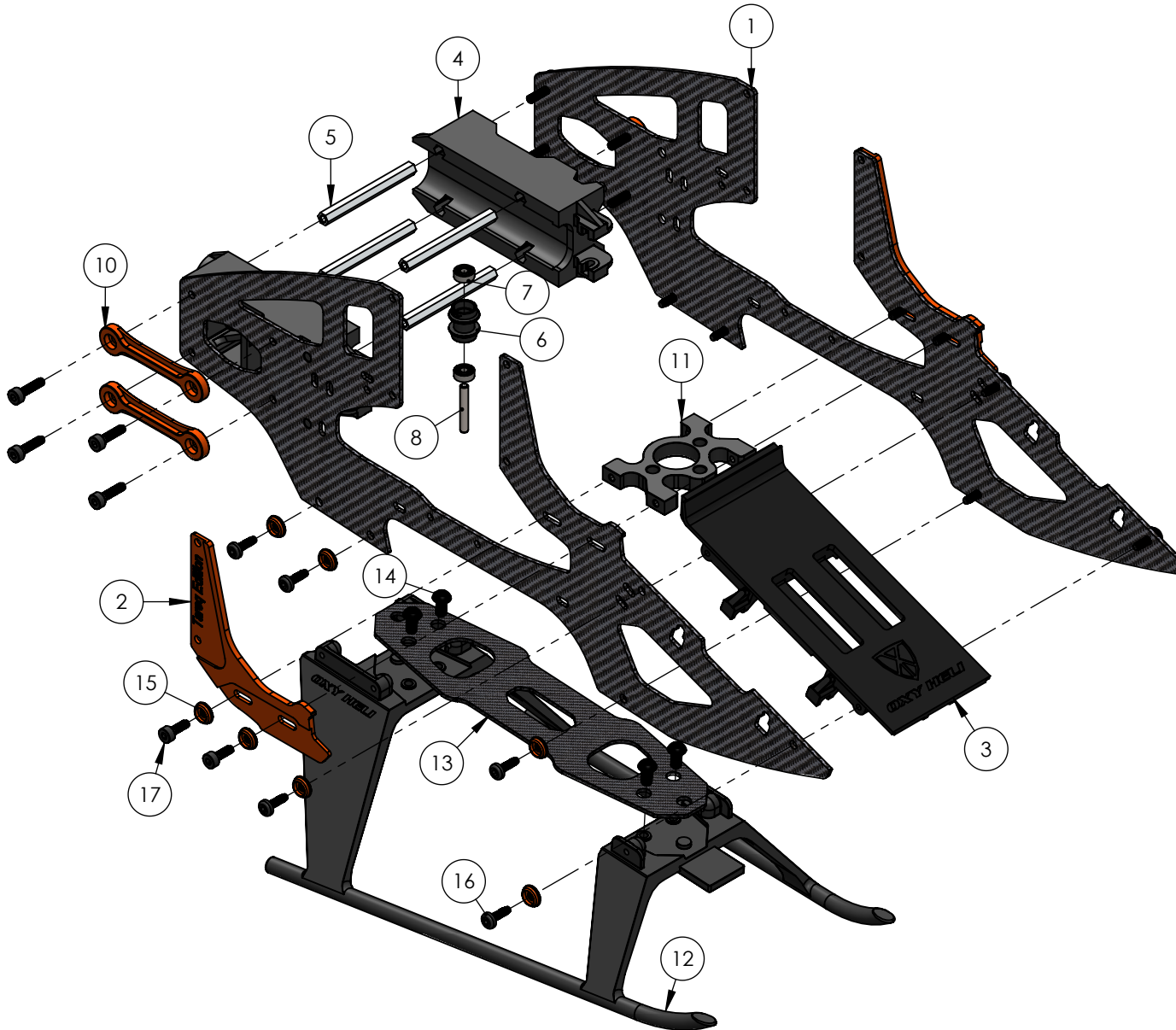















Pos.	PartNo	Description	Qty
1	OXY0696	OXY4 Lower Wash Plate	1
2	OXY0916	OXY3 Ball holder 2018	1
3	OXY0017	Center Ball	1
4	OXY0020	M1.2x3 Screw	2
5	OXY0019	Linkage Ball	3
6	OXY0018	2x11.5 Anti Rotation Pin	1
7	OXY0043	Link Ball	2
8	OXY0005-3	Center Hub	1
9	OXY0007	Spindle Shaft	1
10	OXY0110	Damper Rubber	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



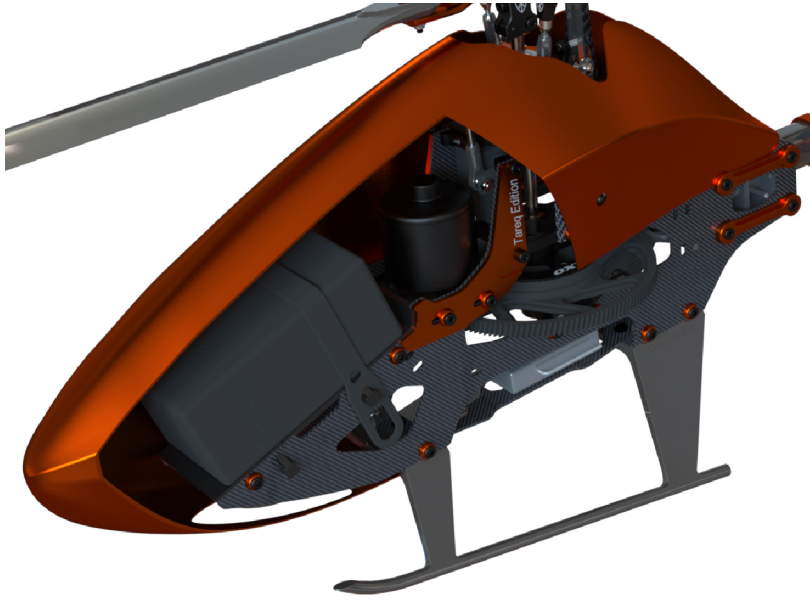
POS	PartNo	Description	Qty
1	OXY0027	Middle Bearing Block	1
2	MR104_ZZC	4X10X4 Radial Bearing	3
3	OXY0083-3	Low er Main Shaft Bearing Block	1
4	OXY0026	Upper Main Shaft Bearing Block	1
5	OXY0276	Anti Rotation Guide	1
6	OXY0037-3LA	Main Gear Hub	1
7	OXY0386	CNC Main Gear 140T	1
8	TCEM2X6	M2X6 Hex Cap 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



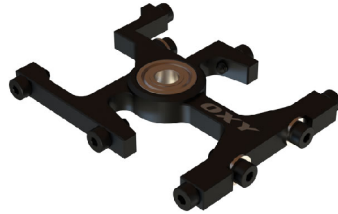
POS	PartNo	Description	Qty
1	OXY0921	OXY 3 Main Frame ED2018	2
2	OXY0922	OXY 3 Motor Stiffener ED2018	1
3	OXY0035	Battery Tray	1
4	OXY0002	Boom Clamp	2
5	OXY0022	Lock Rod	4
6	OXY0388-1	Aluminum Pulley Guide Belt	2
7	MR52-W2	2X5X2 Radial Bearing	4
8	OXY0023	2X13.5 Pin	2
9	OXY0942	Right AI OXY 3 Motor 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

		<p>SP-OXY3-111 OXY3 TE - Center Hub, Black</p> 	<p>OSP-1123 OXY3-Main-Grip-Orange-Set-2pcs</p> 	<p>SP-OXY3-066 OXY3 - Main Grip Service Bag</p> 
		<p>SP-OXY3-003 OXY3 - Carbon Steel Spindle Shaft, 2PC</p> 	<p>SP-OXY3-004 OXY3 - Dampeners, 2 Set</p> 	<p>OSP-1127 - OXY3-OXY4 Pro-Edition-DFC Arm,Black-Set</p> 
<p>OSP-1163-OXY3-OXY4 DFC-Arm-Spacer,-2-Set</p> 	<p>OSP-1085 OXY4 Pro Edition DFC Rod Spare Set, 4pc</p> 	<p>OSP-1119-OXY3 ED2018-TE-Swash-Plate</p> 	<p>OSP-1129-OXY3- ED2018-Swashplate-Service-Bag</p> 	

<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



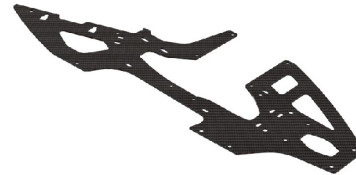
SP-OXY3-021 - OXY3
Boom Mount Lock Rod, Set



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



SP-OXY3-051
OXY3 - Break Away Canopy Plate



SP-OXY3-104-OXY3
Carbon-Copolymer Anti Rotation Guide



SP-OXY3-238-OXY3
Aluminum Canopy Mount - Black



SP-OXY3-152
OXY3 - TE Bottom plate, CF



SP-OXY3-150 - OXY3
TE - Aluminum Landing Gear V2



SP-OXY3-120-OXY3
TE - CNC Main Gear, 1 Set



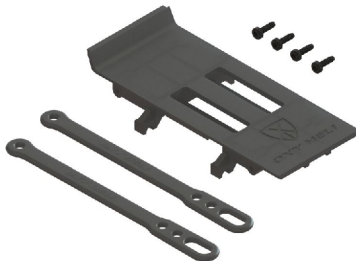
SP-OXY3-017-OXY3
One Way Hub Assembly



OSP-1136-OXY3
One-Way-Hub-Service-bag



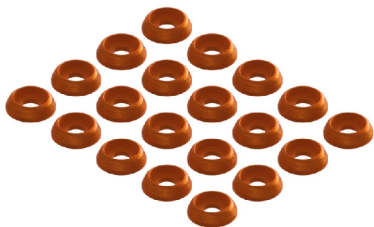
SP-OXY3-016
OXY3 - Battery Tray Set



SP-OXY3-015
OXY3 - Battery Oring , 4PC



SP-OXY3-133
C Washer M2, Orange 20pcs



M2x5CS-10
Hex Cap Screw M2x5, 10 PCS



M2x8CS-10
Hex Cap Screw M2x8, 10 PCS



M3x8CS-10
Hex Cap Screw M3x8, 10 PCS



M2x6SBH-10
Self-Tapping Button Hex Screw M2x6, 10 PCS



	<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> 

OSP-1144-OXY3
ED2018-Tail-push-rod-285-Main-Blade-kit



OSP-1180-OXY3- Painted Tail Boom # 1



SP-OXY3-025
OXY3 - Tail Rotor - Service Bag



SP-OXY3-080 - OXY3 - Tail Shaft 15T



SP-OXY3-108-OXY3
285 Stretch - Tail Belt Spare



SP-OXY3-028-OXY3
Tail Pitch Slider - Service Bag



SP-OXY3-130-OXY3
TE - Tail Servo Mount, Orange








SP-OXY3-058-3
OXY3 - Tail Blade 47mm - Black



SP-OXY3-059-3
OXY3 - Tail Blade 50mm - Black



<p>OSP-1181-OXY3 - ED2018 TE Canopy</p> 	<p>OSP-1151-OXY3 Vertical Fin Set</p> 	<p>SP-OXY3-054 OXY3 - Battery Hook & 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> 

<p>SP-OXY3-040 OXY3 - Pinion 11T - Shaft 3.17</p> 	<p>OSP-1086 OXY4 Pinion 12T - 3.17mm Motor Shaft</p> 	<p>OSP-1091 OXY4 Pinion 13T - 3.17mm Motor Shaft</p> 	<p>OSP-1065 OXY4 Pinion 14T - 3.17mm Motor Shaft</p> 	<p>OSP-1088 OXY4 Pinion 15T - 3.17mm Motor Shaft</p> 
<p>OSP-1088 OXY4 Pinion 15T - 3.17mm Motor Shaft</p> 	<p>OSP-1087 OXY4 Pinion 13T - 3.5mm Motor Shaft</p> 	<p>OSP-1092 OXY4 Pinion 14T - 3.5mm Motor Shaft</p> 	<p>OSP-1066 OXY4 Pinion 15T - 3.5mm Motor Shaft</p> 	<p>OSP-1089 OXY4 Pinion 16T - 3.5mm Motor Shaft</p> 
<p>SP-OXY3-245 OXY3 - Pinion 16T - Shaft 3.17</p> 				