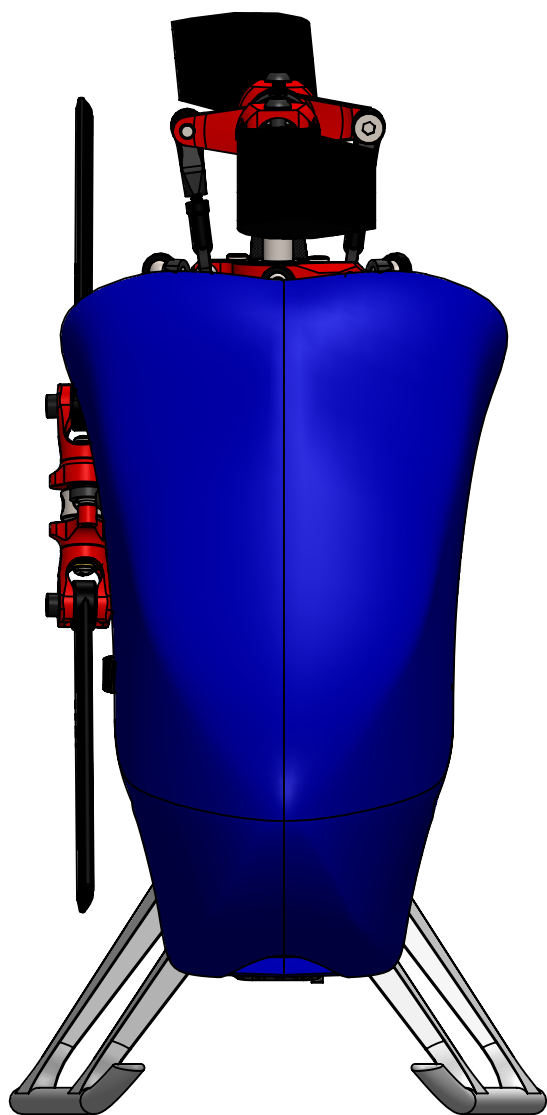


OXY2

215 Pro

Instruction Manual



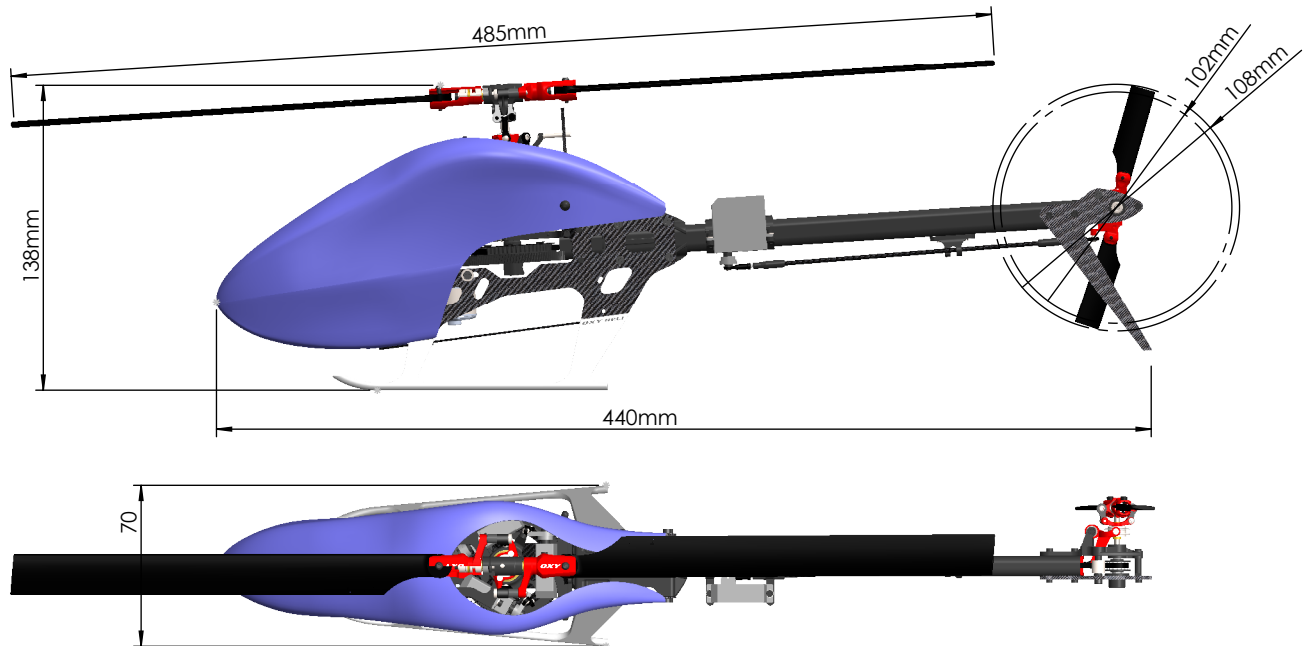
OXY HELI

VERY IMPORTANT NOTE:

- Visit the Oxy Heli web site www.oxyheli.com to download the latest version of the manual.
- Inside Box 2 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 2 Helicopter.

INDEX

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

SPECIFICATIONS

-Standard main rotor diameter	: 485mm (with 215mm blades).
-Standard main blade length	: 215mm
-Main Grip Clamping	: M2 / 3.2 mm root.
-Standard tail rotor diameter	: 102-108mm.
-Standard tail blade length	: 41mm.
-Tail Blade Clamping	: M1.6 / 3 mm root.
-Weight	: 276g (ready to fly excluding batteries)
-Maximum motor size	: diameter 26mm.
-Maximum battery size	: length 72mm, height 25mm, width 35mm, weight 114gr
-Recommend battery	: 850 45C -1000 mAh 3s 40C max size.....

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.

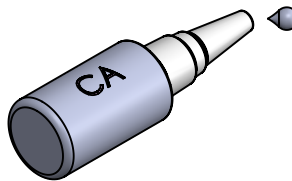
NOTES FOR ASSEMBLY:

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.

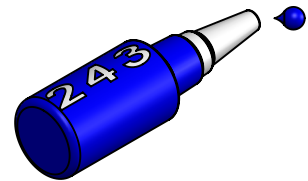
NONE OF THE PRE ASSEMBLED PARTS HAVE THREAD LOCK ON THE SCREWS. IS IMPORTANT TO READ AND FOLLOW THE ASSEMBLY NOTES IN EACH STEP. INCORRECT ASSEMBLY OR NOT USING THREAD LOCK WILL CAUSE A CRASH OR INJURY.



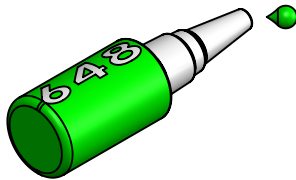
Important note



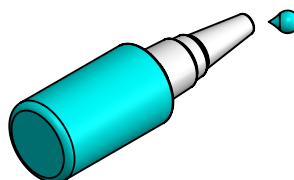
Use CA Glue



Use Loctite 243 Medium Strength



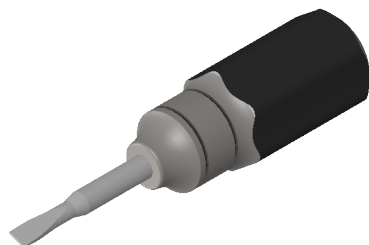
Use Loctite 648 Bonding



Use Silicone Grease

TOOLS REQUIRED

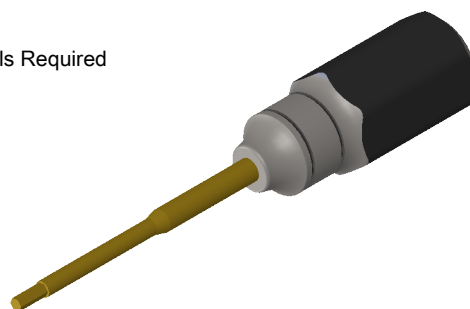
Small Tip - Flat Screw Driver



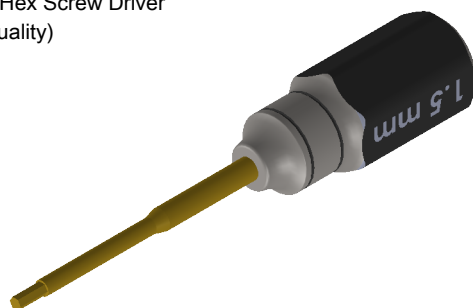
1.5mm Hex Screw Driver
(High quality)



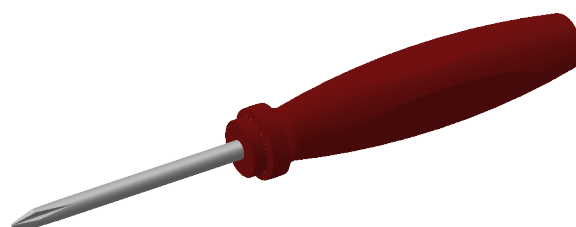
Two Tools Required



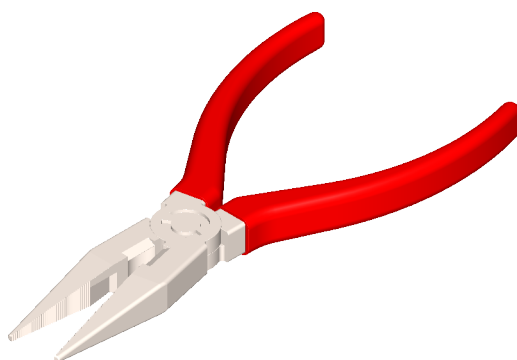
1.3mm Hex Screw Driver
(High quality)



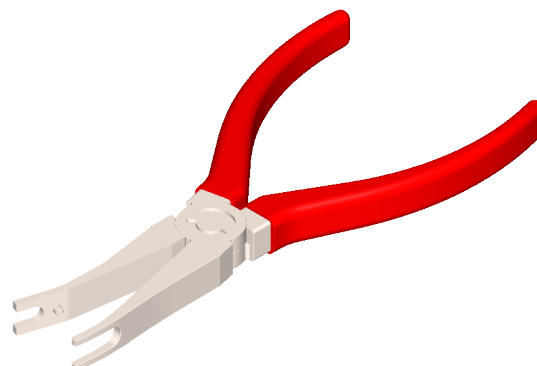
Philips head screw driver



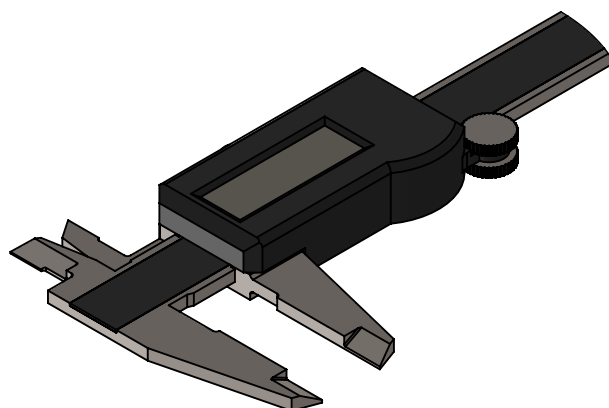
Needle nose pliers



Uniball Pliers

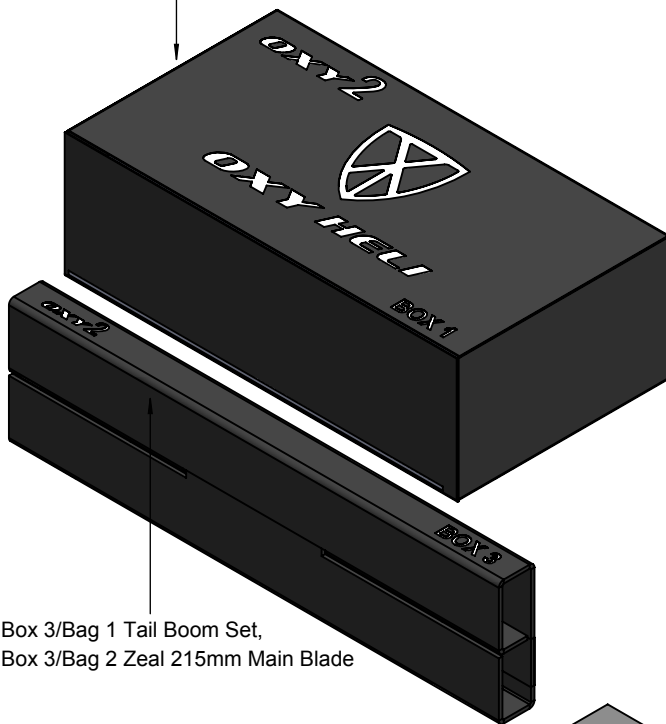
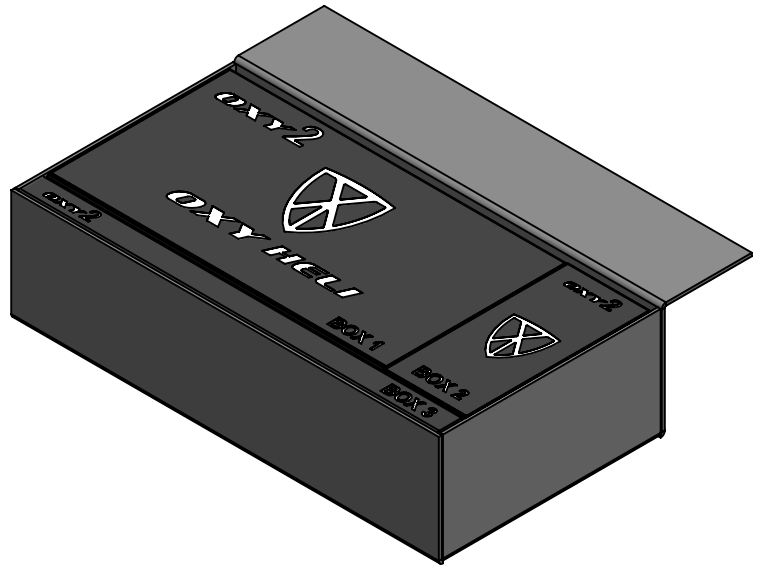


Caliper

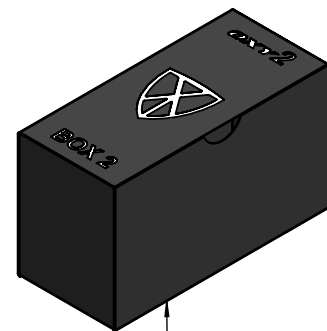


INSIDE THE MAIN BOX

Canopy,
BOX 1-1,
Box 1/Bag 11 Main Frame Set,
Box 1/Bag 10 Landing Gear Set,
Tail Set Assembly Parts.

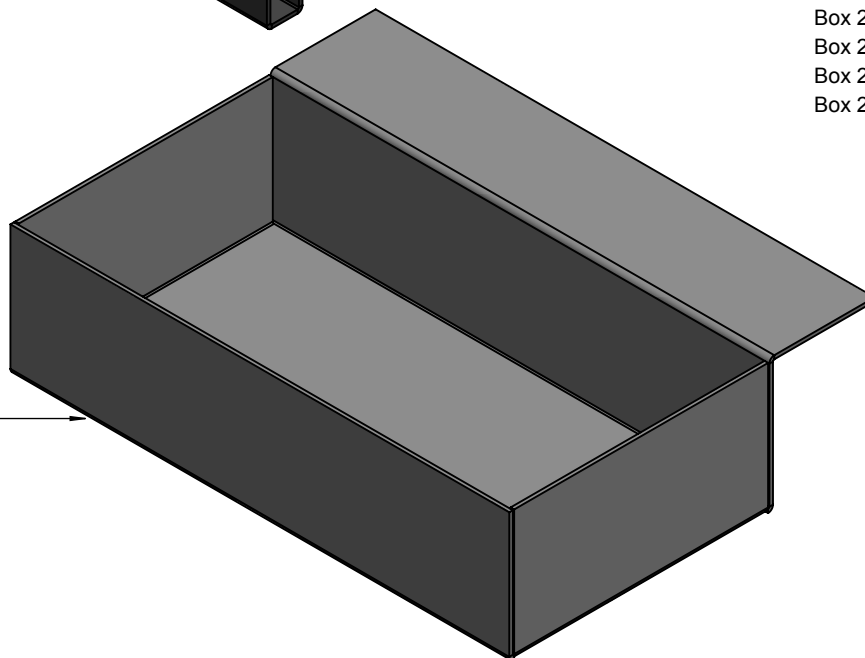


Box 3/Bag 1 Tail Boom Set,
Box 3/Bag 2 Zeal 215mm Main Blade



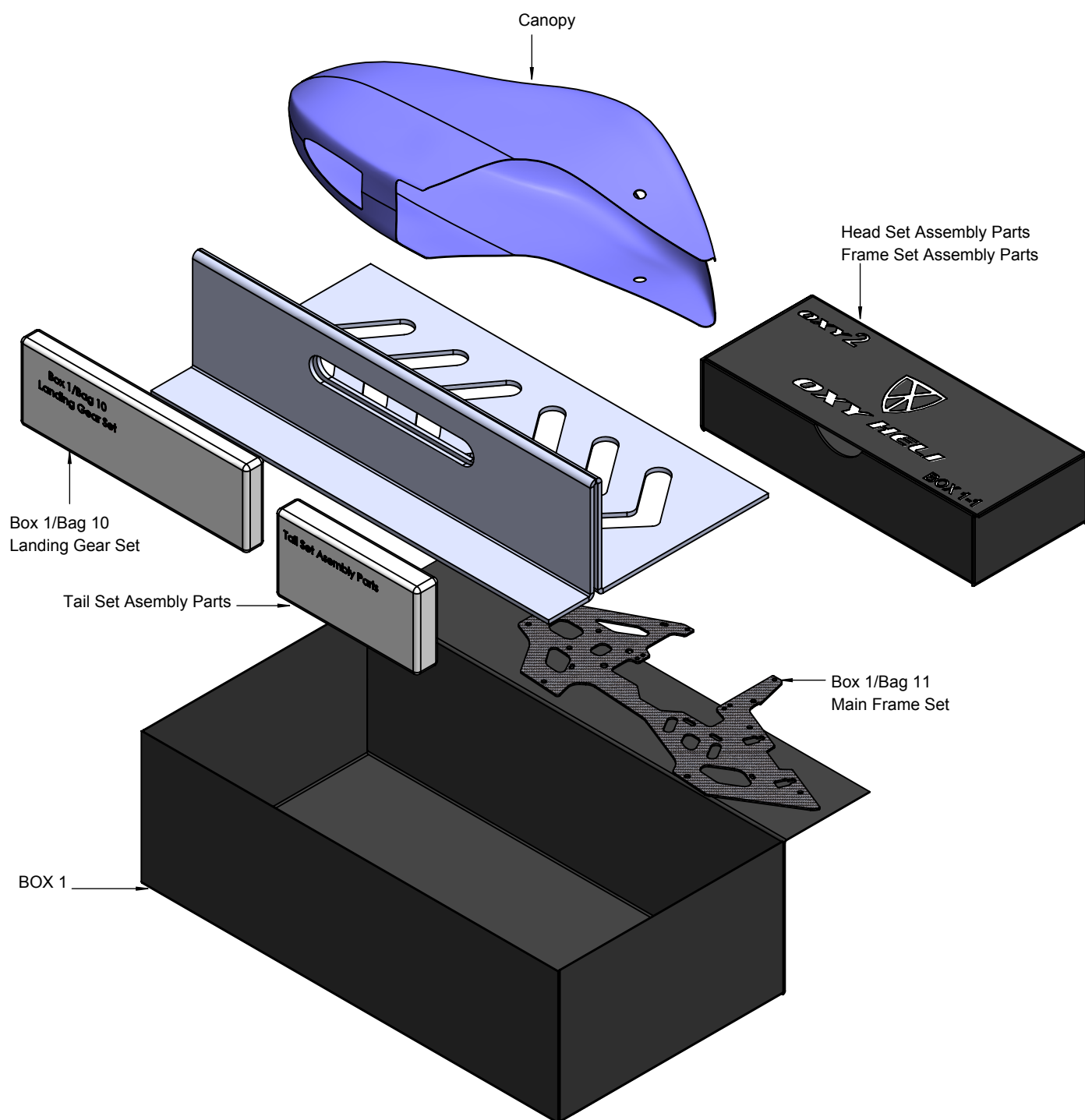
Serial Number Card,
Box 2/Bag 1 Boom Clamp Set,
Box 2/Bag 2 Battery Tray Set,
Box 2/Bag 3 Main Gear Set,
Box 2/Bag 4 Accessories,
Box 2/ Bag 5 Extra Hardware,

MAIN BOX



OXY HELI

INSIDE THE BOX 1



OXY 2 POWER SYSTEM AND HEAD SPEED SET-UP

In order to choose the best setup for your Oxy 2, and optimize performance, it is important to know some basic information:

1- Motor Kv – Min 3600 - Max 6000 - See your motor specification

2- Battery Pack – (3s or 4s)

3- Your target head speed

If you use a head speed calculator, use **113T** for the main gear and one of the available pinions 10T – 11T – 12T – 13T – 14T – 16T – 18T .

The kit comes with one pinions (11T-2mm Shaft) which enables a wide head speed range with 3s batteries and 5500Kv Motor perfect for novice and expert pilots.

Oxy 2 Gear Ratio Chart

Pinions (Teeth)	Main Gear ratio
10	11.000
11	10.000
12	9.167
13	8.462
14	7.857
16	6.875
18	6.111

Oxy 2 Fly Style / Head Speed / Main Blade / Tail Blade / Max Pitch suggestion chart:

	Fly Style	Head Speed		Main Blade	Pitch	Tail Blade	Tail Pulley
OXY2 190mm	Hover	3500	4000	190 CP	+10 / -3	41	16 T
	Fly 2D	4000	4500	190 CP	+10 / -5	41	16 T
	Soft 3D	4500	5000	190 CP	+/- 13	38	16 T
	Hard 3D	5000	5500	190 CP	+/- 14	38	16 T
	Extreme 3D	5500	6000	190 CP	+/- 14	38	16 T

	Fly Style	Head Speed		Main Blade	Pitch	Tail Blade	Tail Pulley
OXY2 215mm	Hover	3300	3750	210 CF	+10 / -3	41	15T
	Fly 2D	3750	4200	210 CF	+10 / -5	41	15T
	Soft 3D	4200	4650	210 CF	+/- 13	41	16 T
	Hard 3D	4650	5100	210 CF	+/- 14	41	16 T
	Extreme 3D	5100	5550	210 CF	+/- 14	41	16 T

Head Speed Note: Although Oxy 2 can handle very high Head Speed, we suggest not to exceed 5500 RPM to maintain a good compromise btw performances and efficiency.

Configuration examples

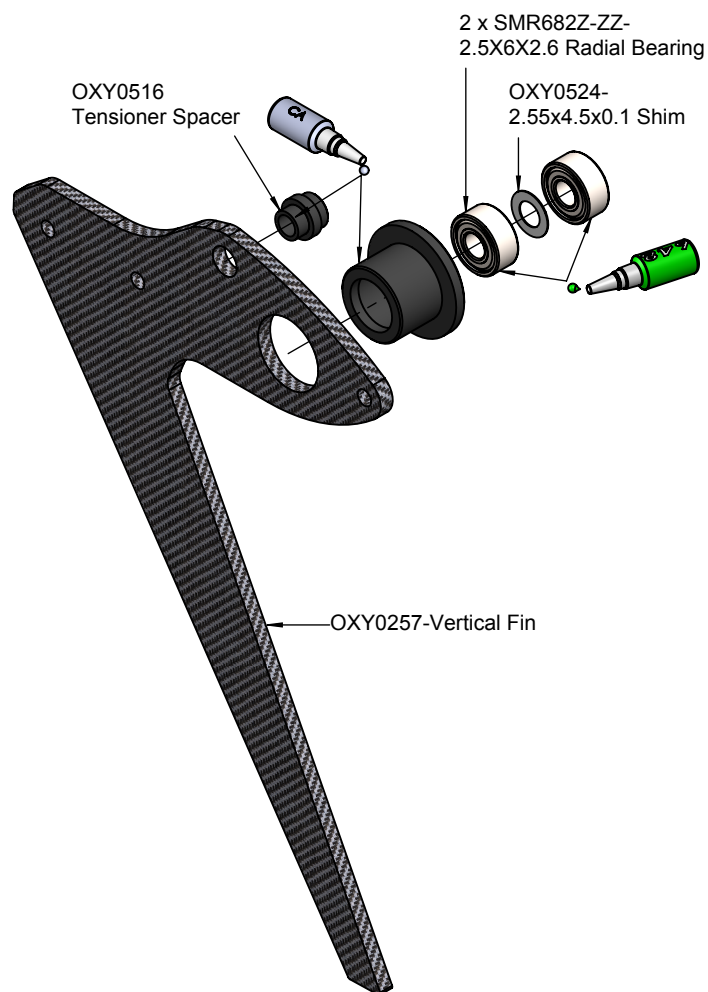
Since the Oxy2 is a high performance 3D RC helicopter, we suggest using high quality power components including motor, battery and ESC. Remember the Oxy 2 is a 200 class heli – use light components to maximize flight time and performance.

Here are some suggestions:

- Motor: Suggested KV 3600KV to 6000KV, 16-11 to 19-12 caliber series (stator diameter – stator length).
- Battery: 3 or 4S with capacity from 800 to 1000mAh / 45C discharge rate. Maximum size: length 72mm, height 25mm, width 35mm, weight 114g.
- ESC: 25 to 30A – with BEC 5V or higher.
- Cyclic servos: Standard Sub MICRO size servo 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 2 was designed around the U-Ikon / U-Brain and Neo V-Bar Systems. But many other smaller size FBL systems can be used, depending on your personal choice. Max inner Frame dimension 26mm.
- Main blade: The Oxy 2 can fly with plastic or CF main blades from 190 to 210mm. Our testing was with Lynx 190mm Carbon Plastic main blades, and Zeal 210mm main blades. The Oxy 2 main grips use M2 clamp screw and have a 3.2 mm root.
- Tail blades: The Oxy 2 uses our own OEM tail blades, either 38 or 41mm (included with the kit). They use a M1.6 clamp screw and 3 root.

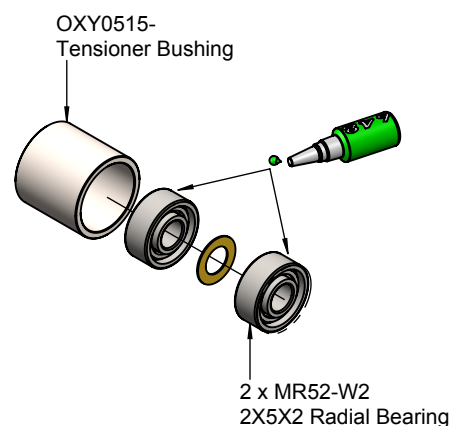
We offer 38 and 41mm tail blades to suit different head speeds. Use 41mm tail blades when your head speed is lower than 4500rpm and 38mm with higher head speeds.

Vertical Fin Assembly (Box 1/Bag 1)

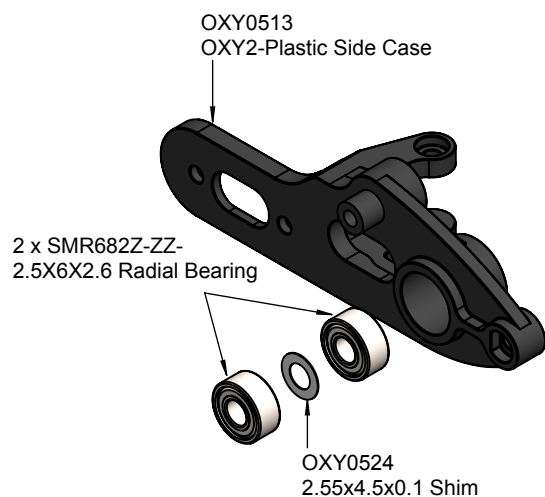


Important Note:
This part, for tuning reasons,
comes factory pre assembled,
it ready to use

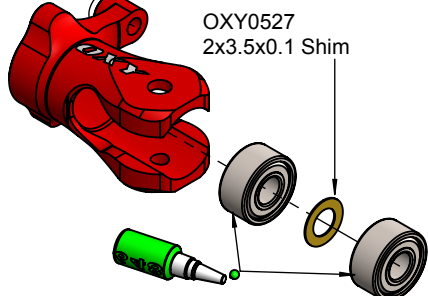
Tail Case Assembly (Box 1/Bag 2)



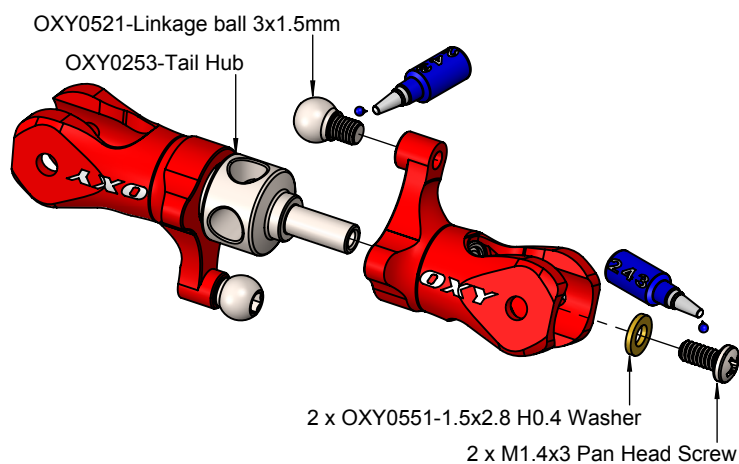
Important Note:
This part, for tuning reasons,
comes factory pre assembled,
it ready to use

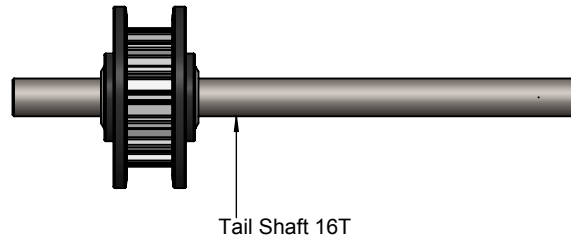


Tail Rotor Assembly (Box 1/Bag 3)

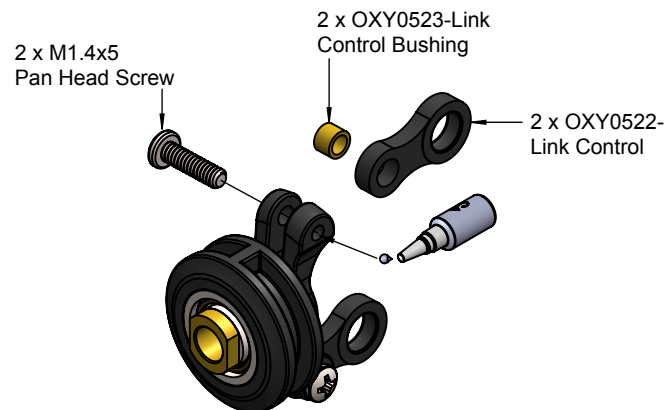


Important Note:
This part, for tuning reasons,
comes factory pre assembled,
it ready to use



Tail Shaft Assembly*(Box 1/Bag 4)***Important Note:**

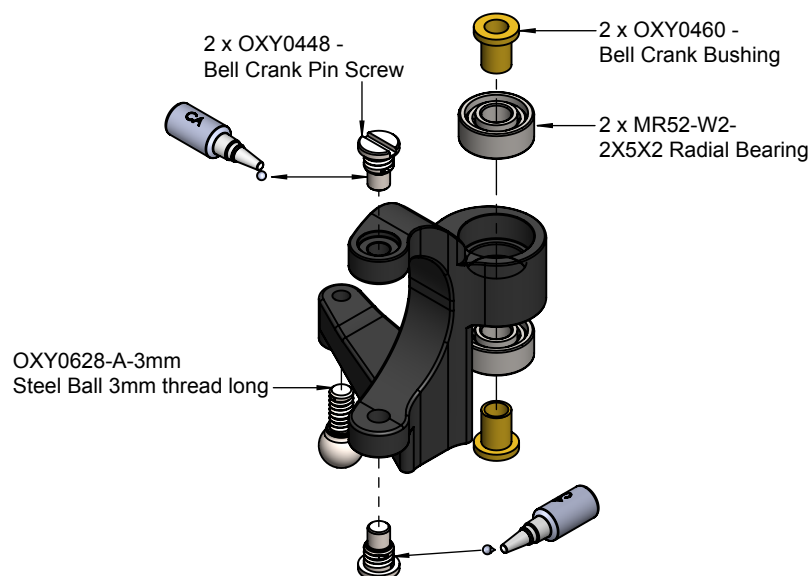
This part, for tuning reasons,
comes factory pre assembled,
it ready to use.

Tail Pitch Slider Assembly*(Box 1/Bag 5)***Important Note:**

This part comes pre assembled,
WITHOUT THREAD lock. Follow
the instruction for final assembly.

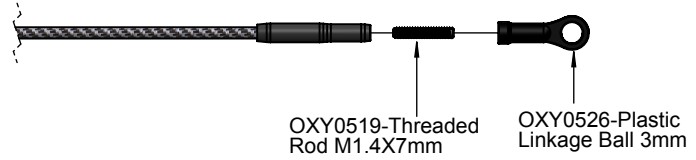
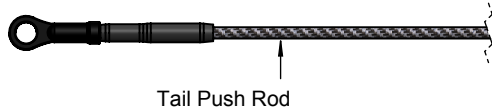


Do not over tighten
Pan Head Screw 2XM1.4x5

Tail Belt Crank Assembly*(Box 1/Bag 6)***Important Note:**

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

Carbon Fiber Tail Push Rod Assembly (Box 3/Bag 1)



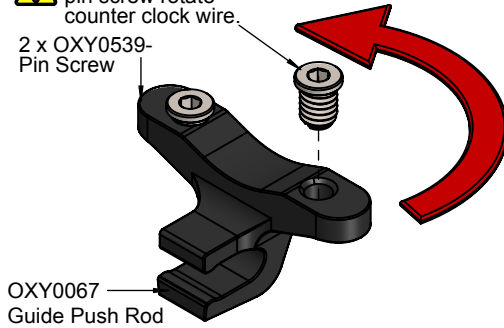
Important Note:
This part, for tuning reasons, comes factory pre assembly, it ready to use.

Tail Push Rod Guide Assembly (Box 3/Bag 1)

Step 1:

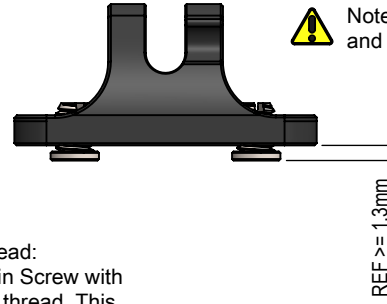
Important Note: to install this pin screw rotate counter clock wire.

2 x OXY0539-Pin Screw



Step 2:

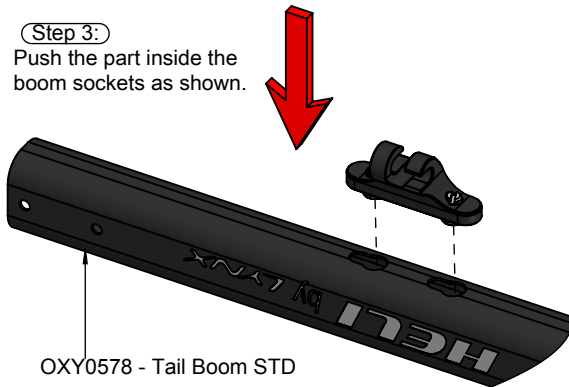
Important Note: Install the Pin Screw and leave a gap as shown.



Important Note: Note Pin Screw Thread: 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.

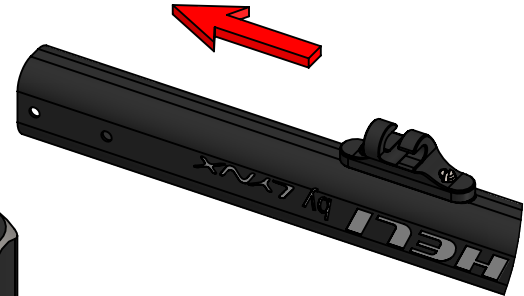
Step 3:

Push the part inside the boom sockets as shown.



Step 4:

Slide the parts as shown



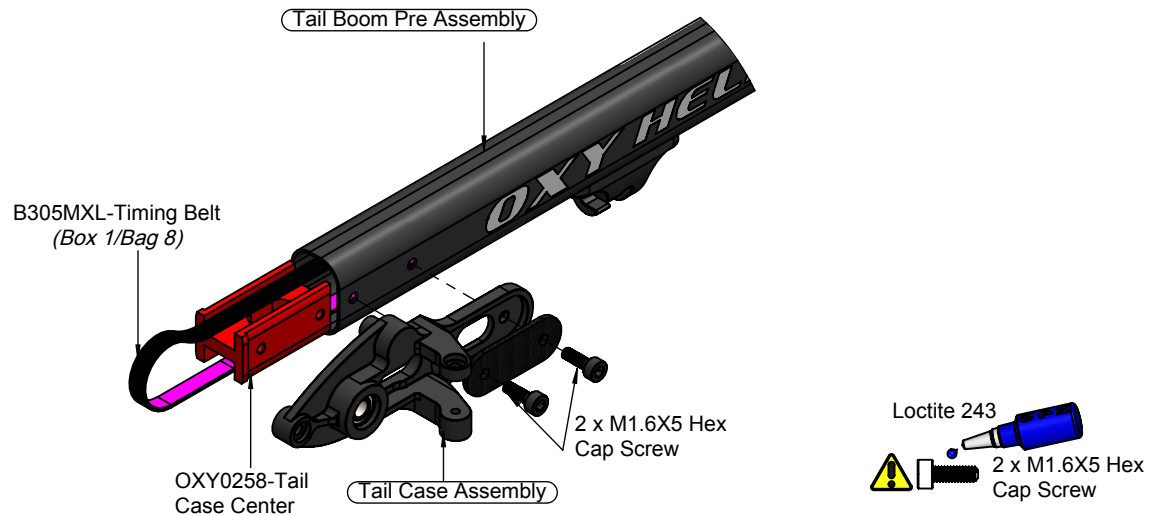
Step 5:

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

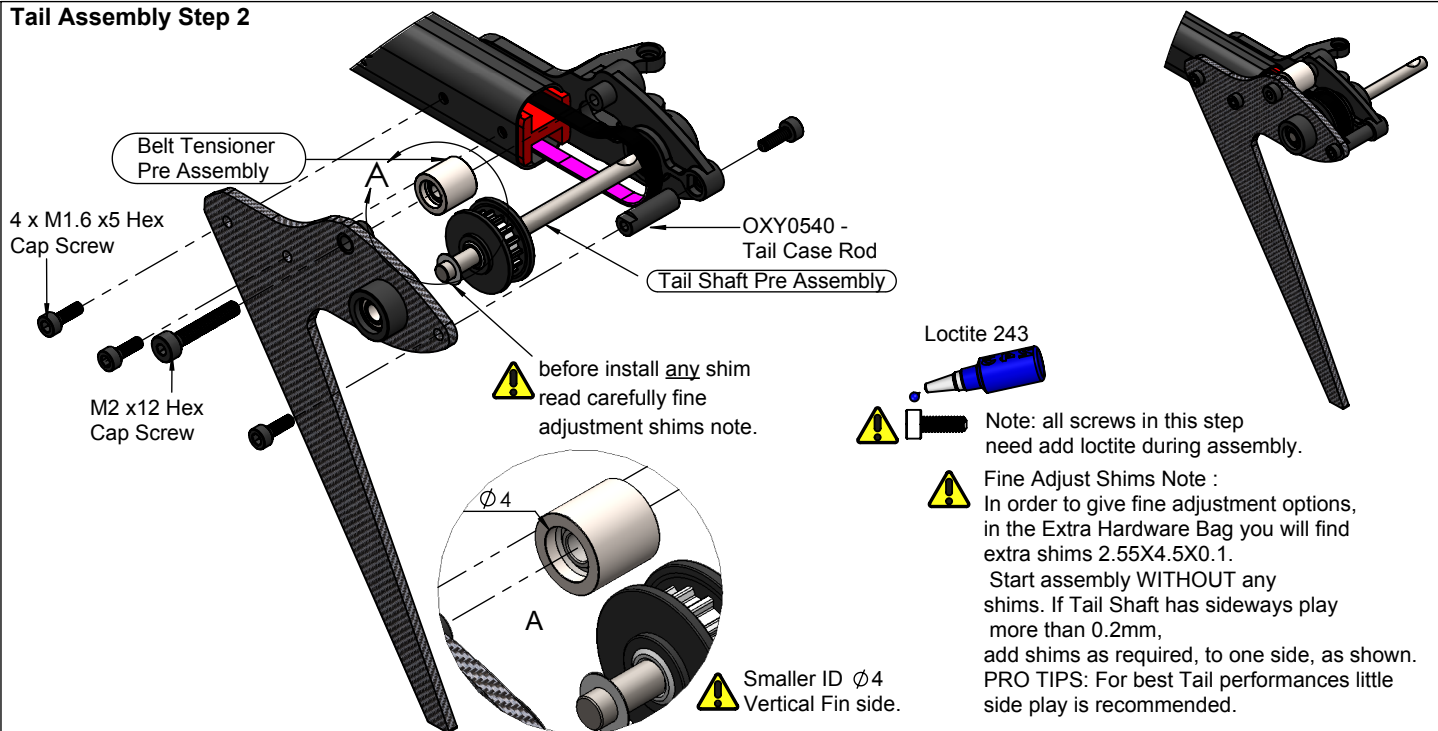


Important Note:
This part, for tuning reasons, comes factory pre assembly, it ready to use.

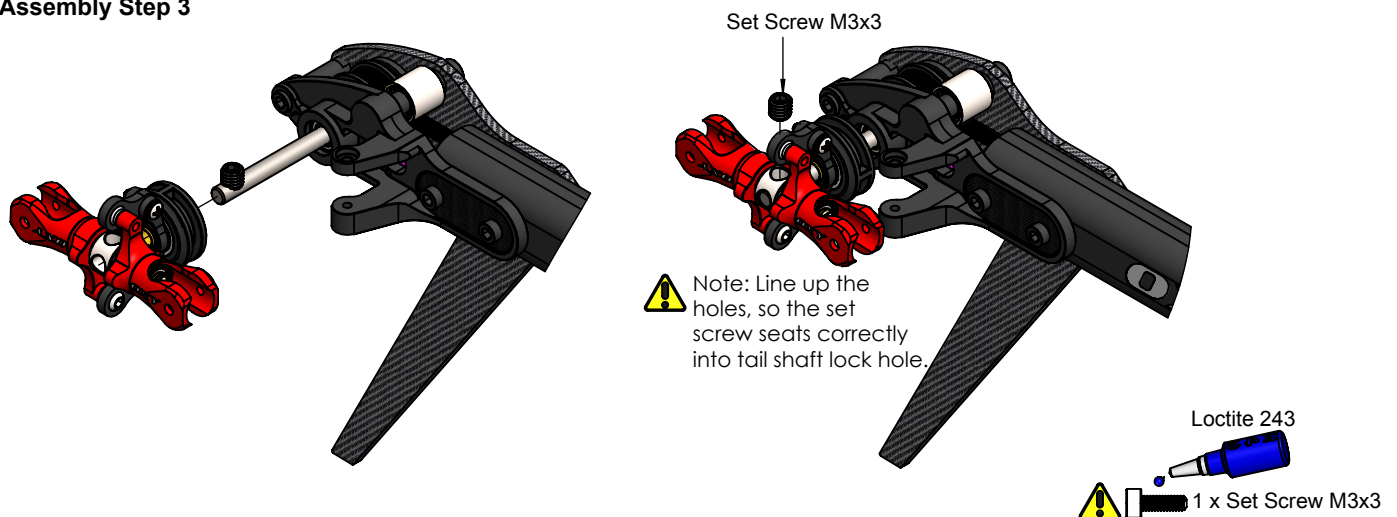
Tail Assembly Step 1



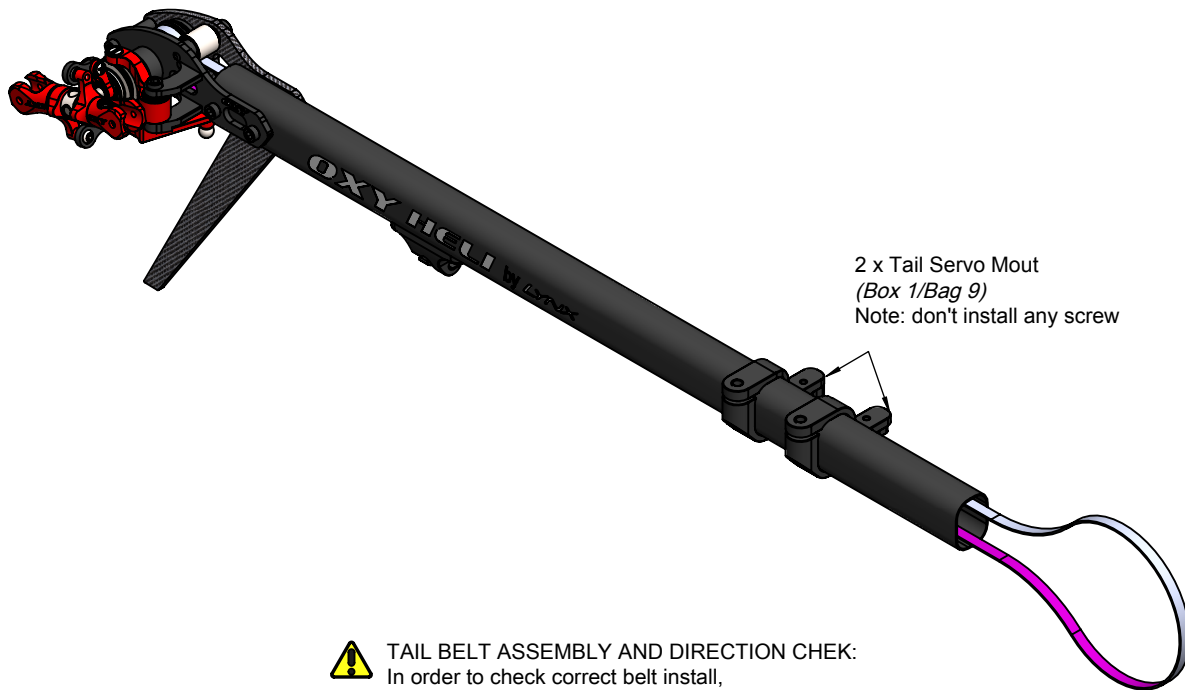
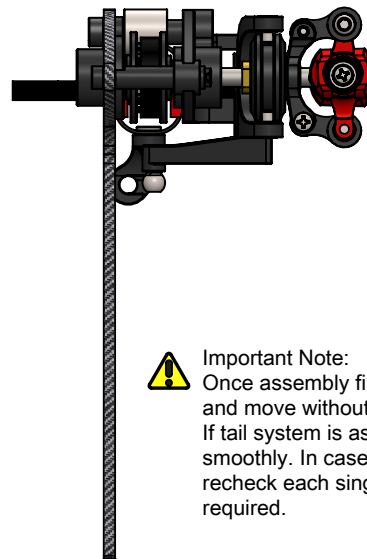
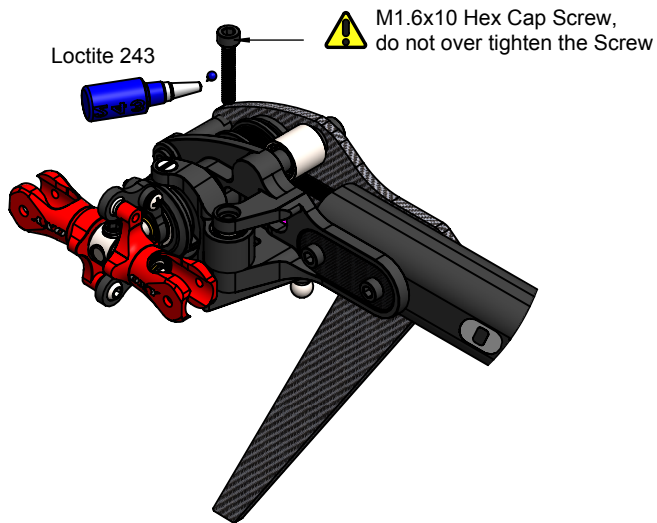
Tail Assembly Step 2



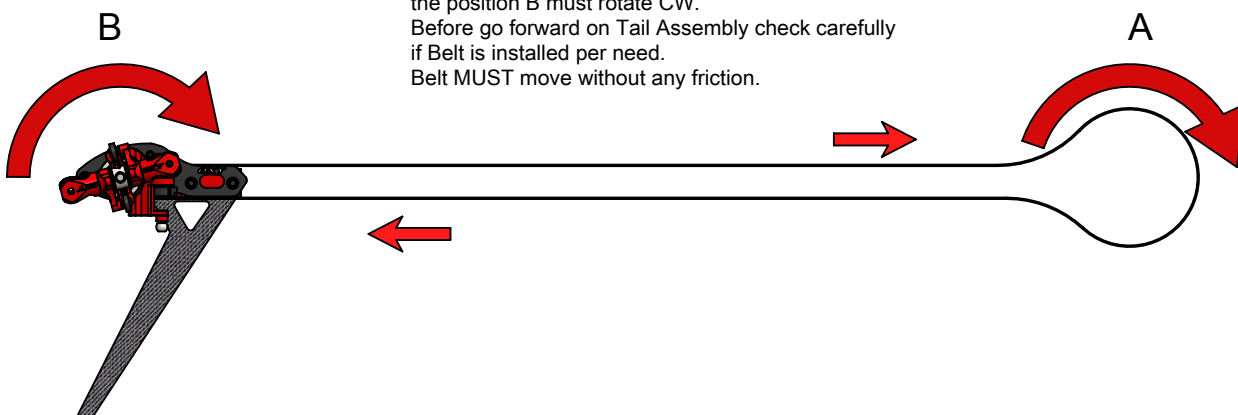
Tail Assembly Step 3



Tail Assembly Step 4



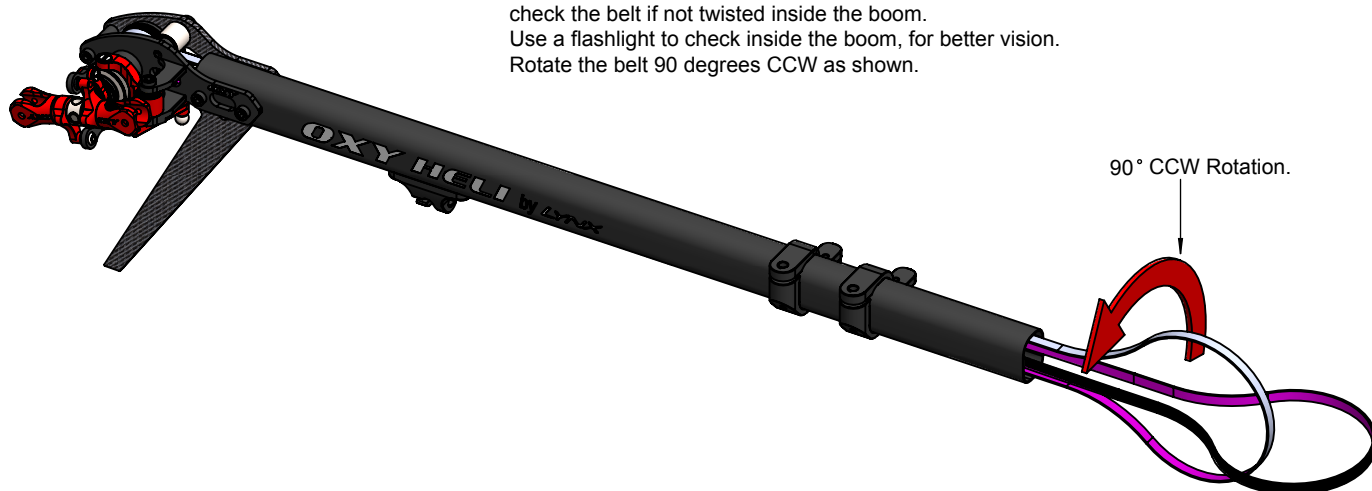
TAIL BELT ASSEMBLY AND DIRECTION CHEK:
In order to check correct belt install, move belt position A CW and the position B must rotate CW.
Before go forward on Tail Assembly check carefully if Belt is installed per need.
Belt MUST move without any friction.



Tail Assembly Step 5

Step 5-1:

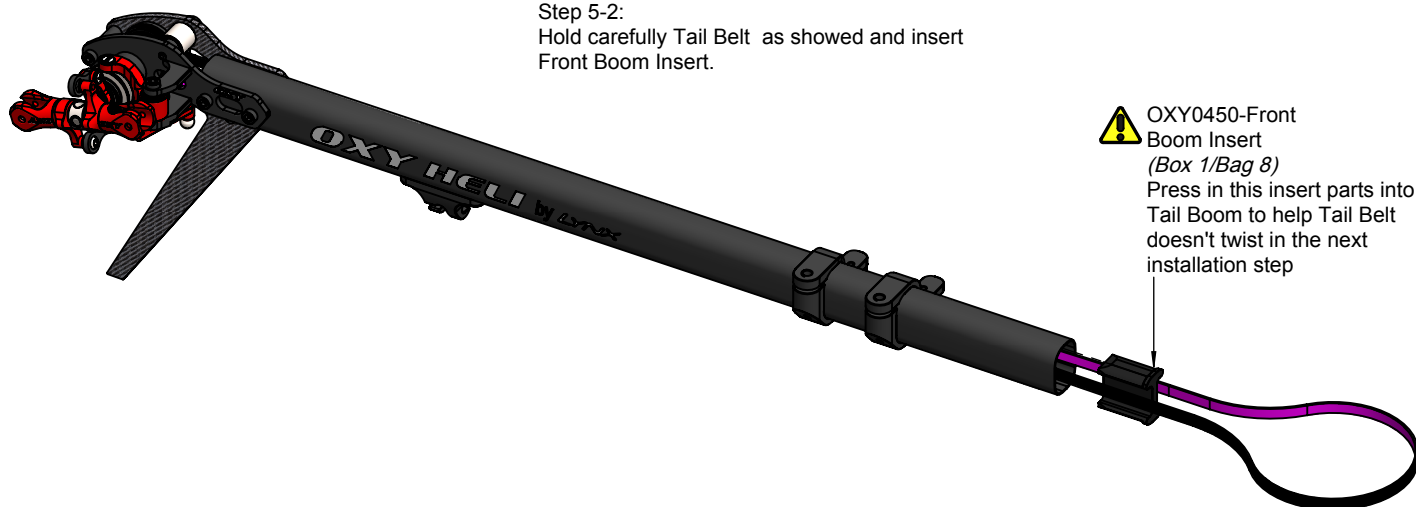
Tail belt is showed straight coming out, form tail boom. Be careful to check the belt if not twisted inside the boom. Use a flashlight to check inside the boom, for better vision. Rotate the belt 90 degrees CCW as shown.



90° CCW Rotation.

Step 5-2:

Hold carefully Tail Belt as showed and insert Front Boom Insert.



OXY0450-Front Boom Insert
(Box 1/Bag 8)
Press in this insert parts into Tail Boom to help Tail Belt doesn't twist in the next installation step

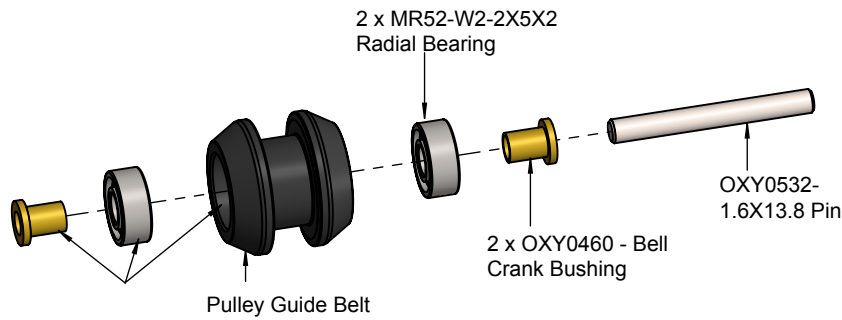


Pull Tail Belt here

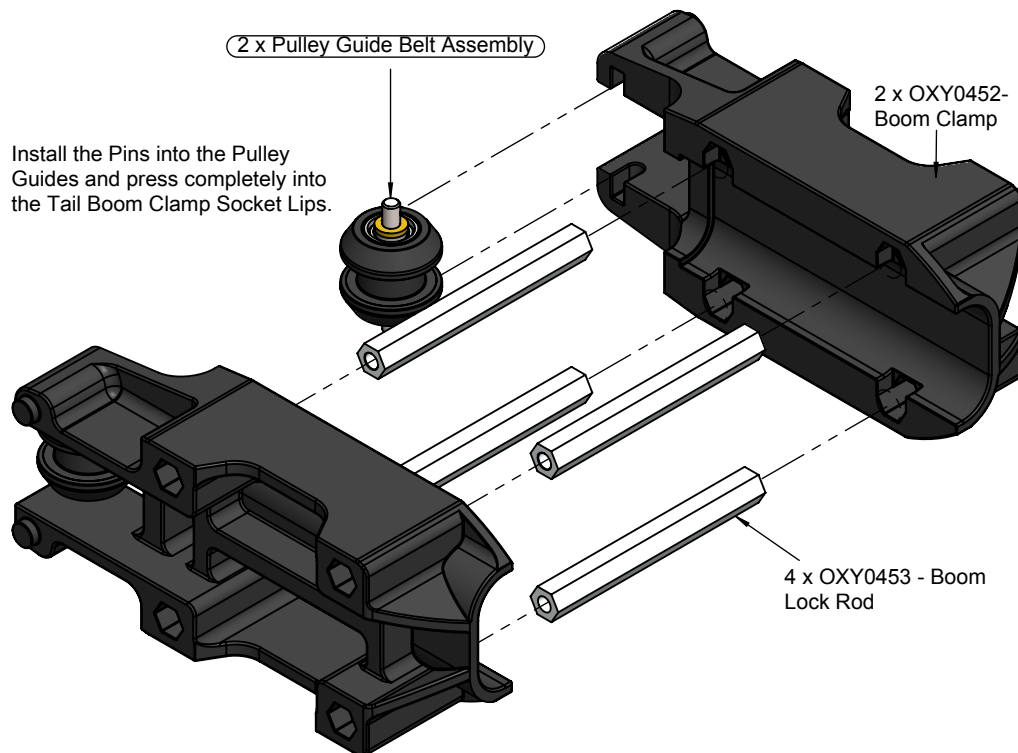
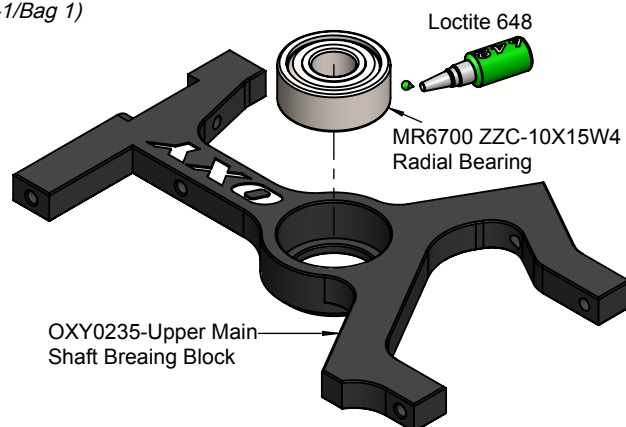
Step 5-3:

Final Tail Belt Direction Check:

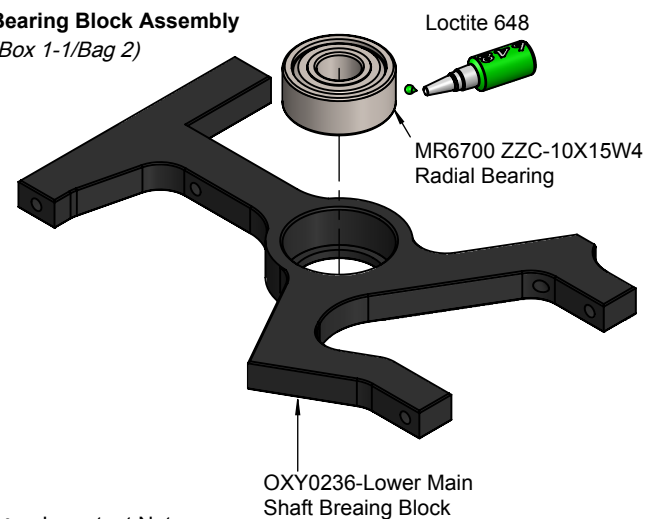
Pull Tail Belt (as shown) and check the tail hub rotates in the direction shown. If the Tail Rotor rotates in the wrong direction, go back to the previous instructions and double check your assembly.

Boom Clamp Assembly*(Box 2/Bag 1)***Pulley Guide Belt Assembly**

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

**Upper Main Shaft Bearing Block Assembly***(Box 1-1/Bag 1)*

⚠ Important Note:
The Radials Bearing come
factory pre assembled with
Loctite. It is ready to use.

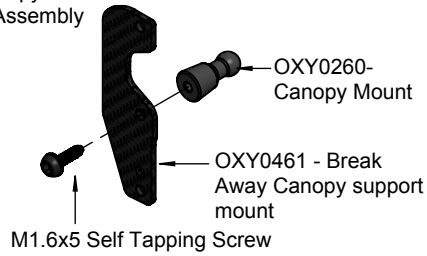
Lower Main Shaft Bearing Block Assembly*(Box 1-1/Bag 2)*

⚠ Important Note:
The Radials Bearing come
factory pre assembled with
Loctite. It is ready to use.

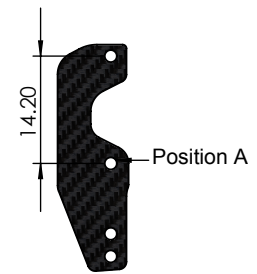
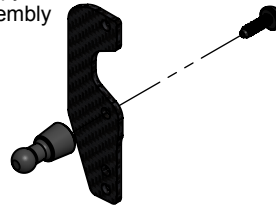
Canopy Mount Assembly

(Box 1-1/Bag 3)

Left Canopy Mount Assembly



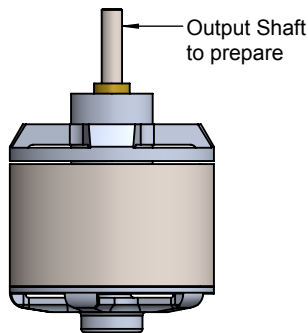
Right Canopy Mount Assembly



Important Note:
Install Canopy Pin into Position A as shown

Motor Pinion Installation

- ⚠ Note:** Output Motor Shaft preparation:
because OXY2 pinion have bonding assembly follow below step for best results.
- 1- Sand Paper output shaft.
 - 2- Use bonding compound (Loctite 648 or Lynx LX5648). Don't use STD lock thread.
 - 3- After Install wait at least 10h before fly.

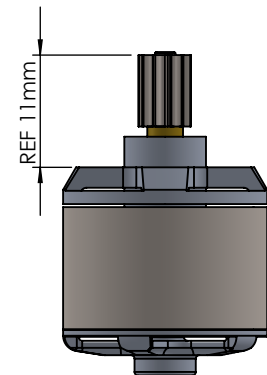


Kit Pinion
11T ID Ø2mm
(Box 1-1/Bag 4)

Loctite 648



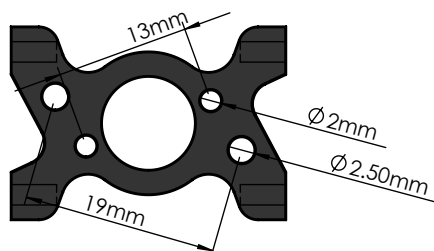
Use bonding compound
Loctite 648 or LX5648,
don't use standard lock thread



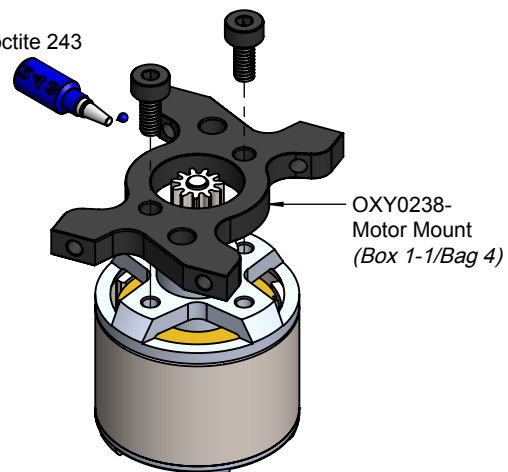
after install wait
until 10h before fly

Motor Installation

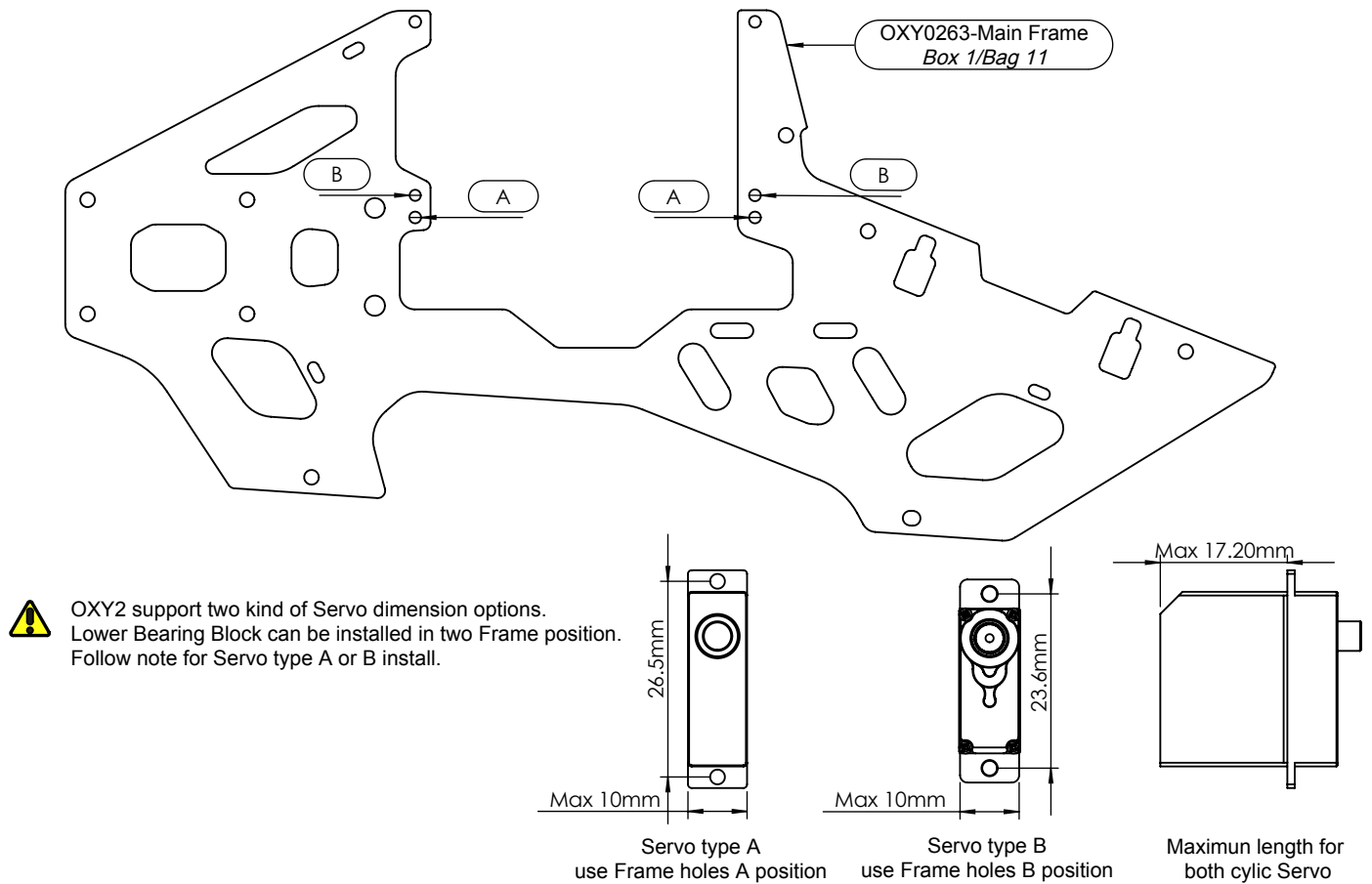
- ⚠** OXY2 support two size of motor fitting (13mm/M2 and 19mm/M2.5), choose the correct holes dependig on the used Motor.
- ⚠** Use Hex Cap Screw M2x5 for 13mm holes
Use Button Head Screw M2.5x5 for 19mm holes



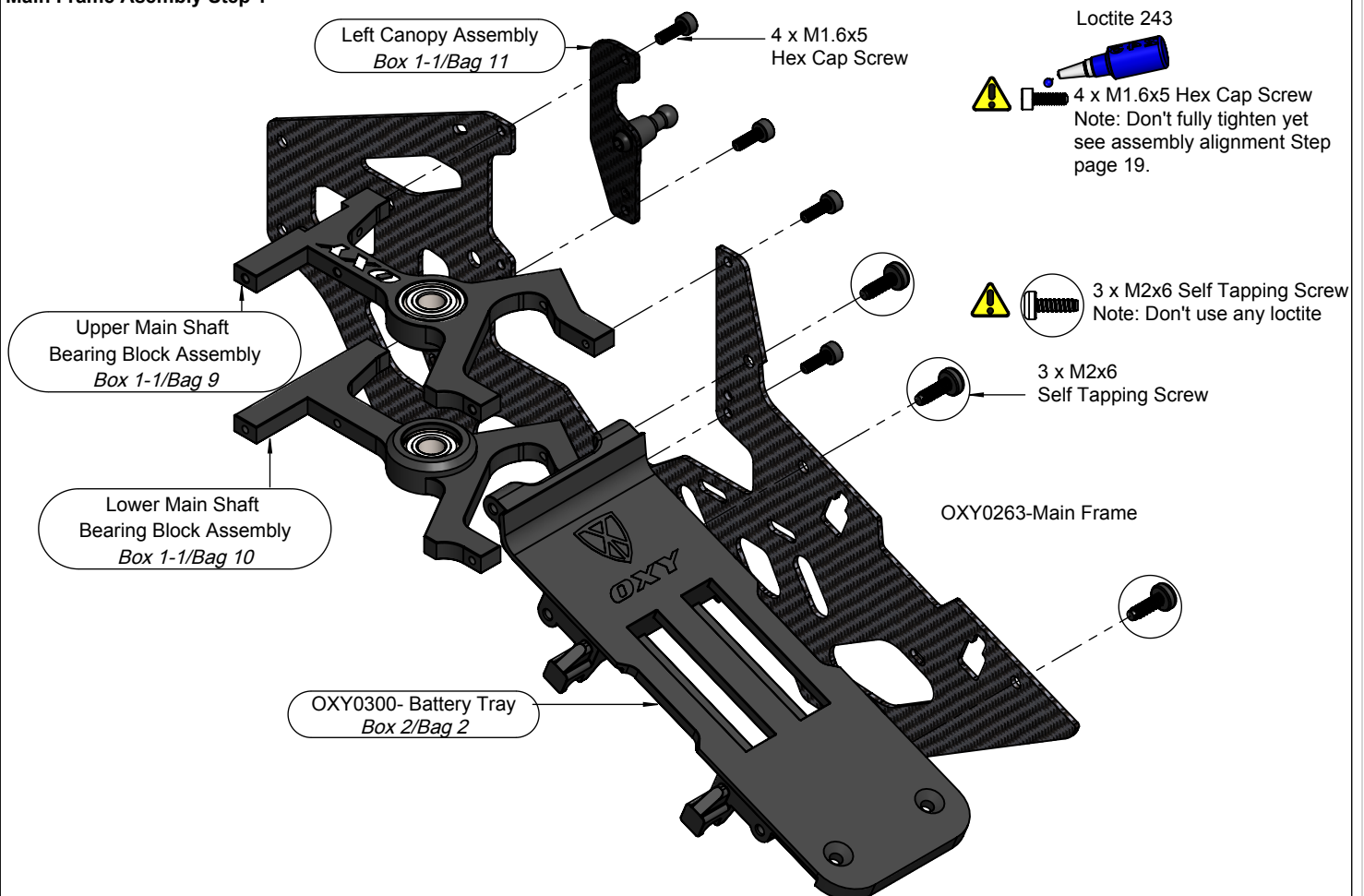
Loctite 243



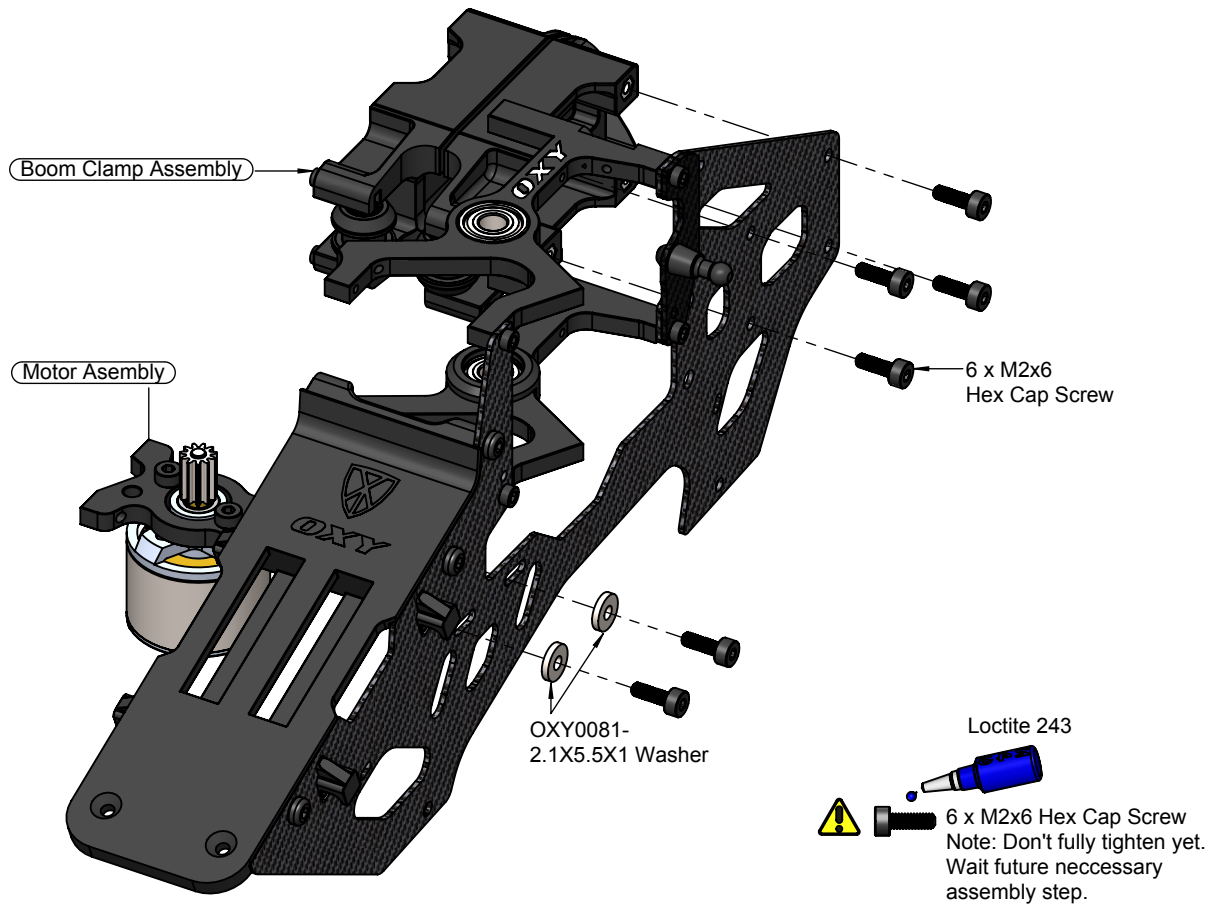
Main Frame Assembly Step 1



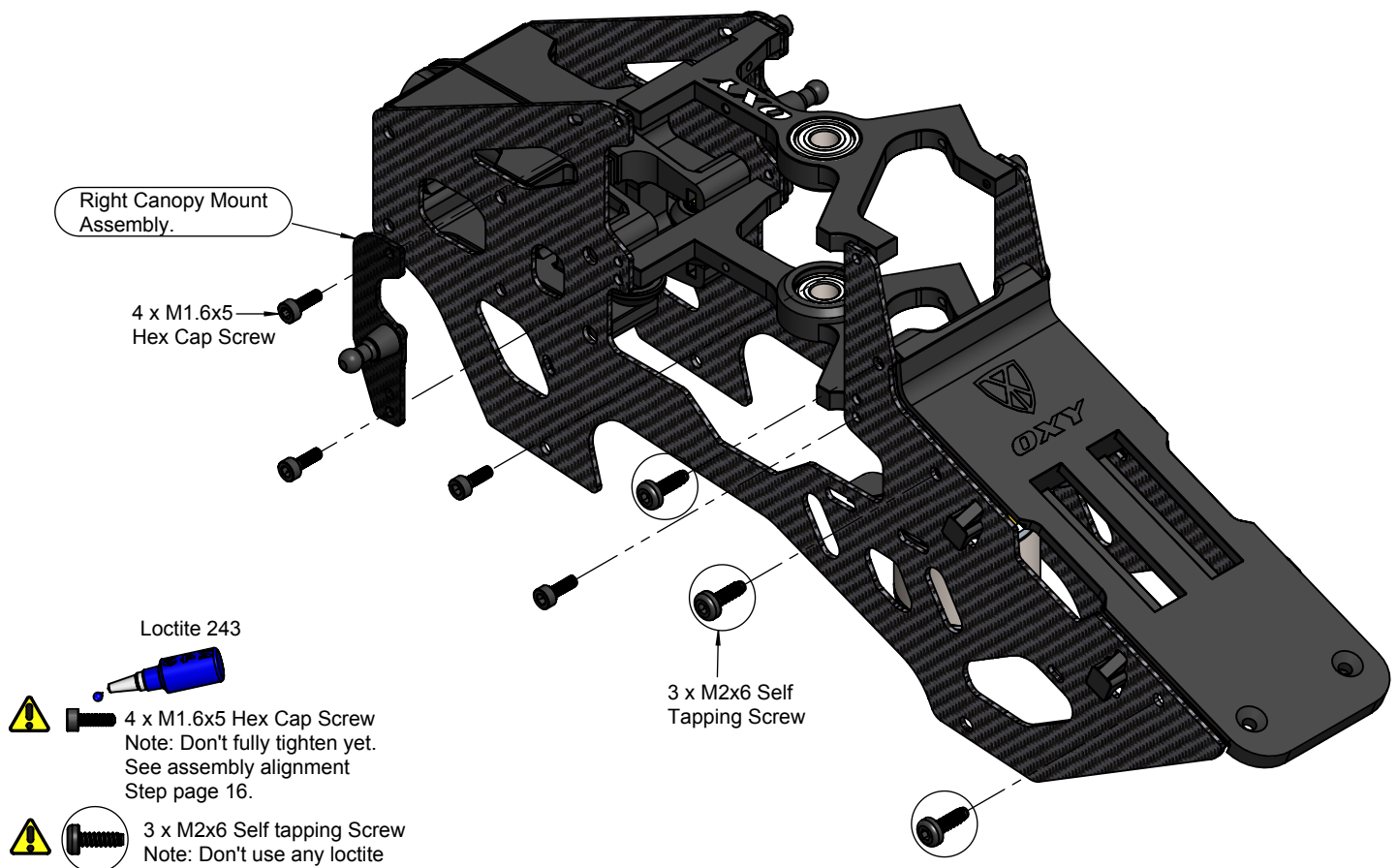
Main Frame Assembly Step 1



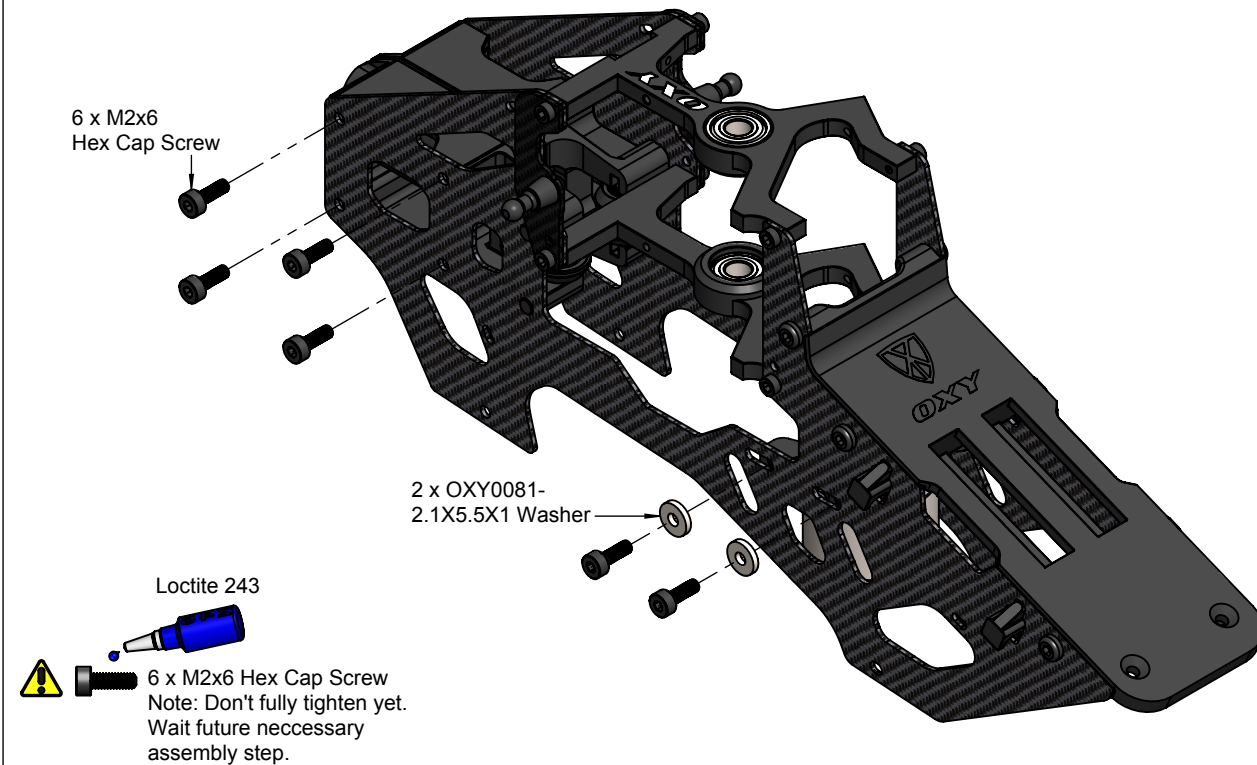
Main Frame Assembly Step 2



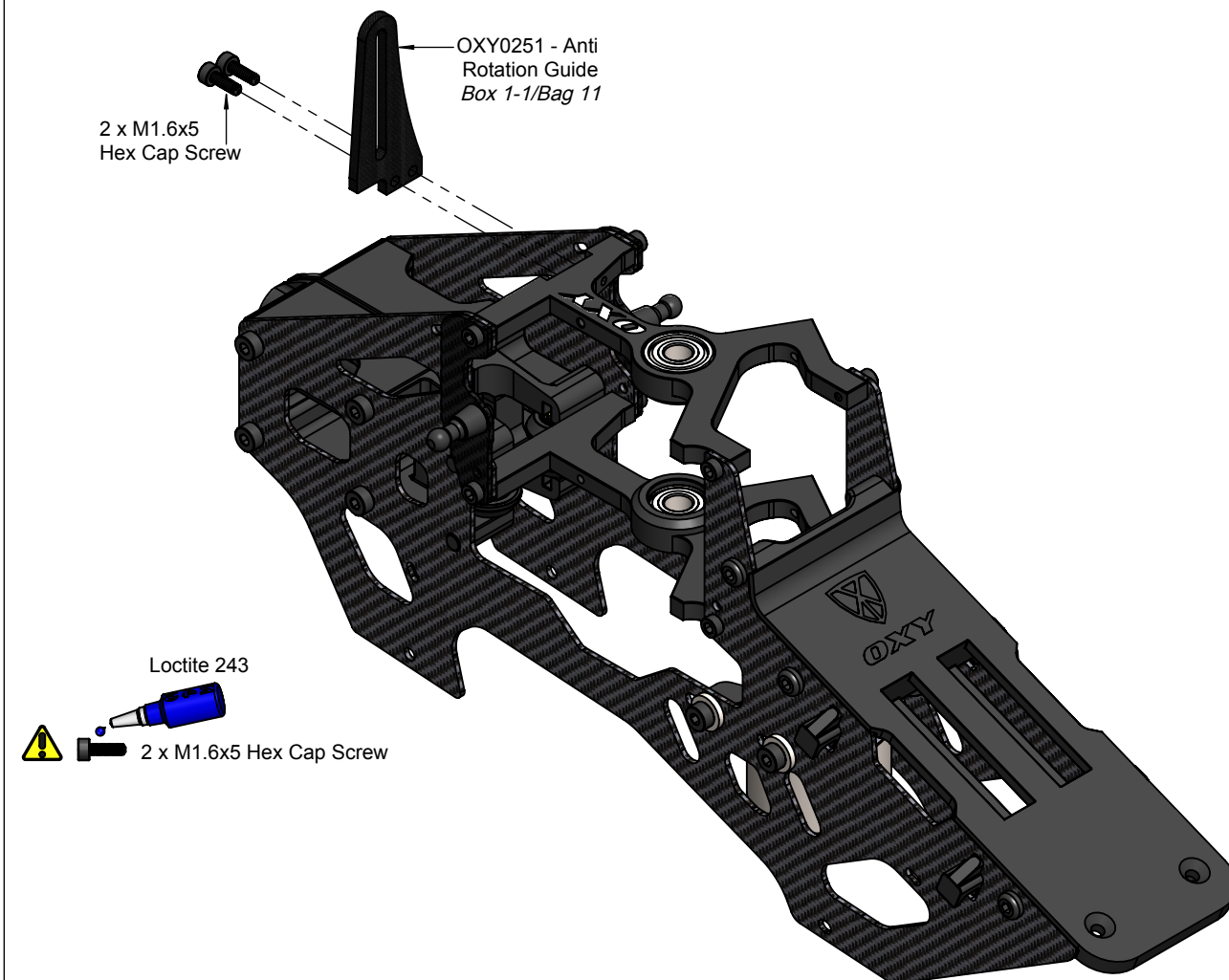
Main Frame Assembly Step 3

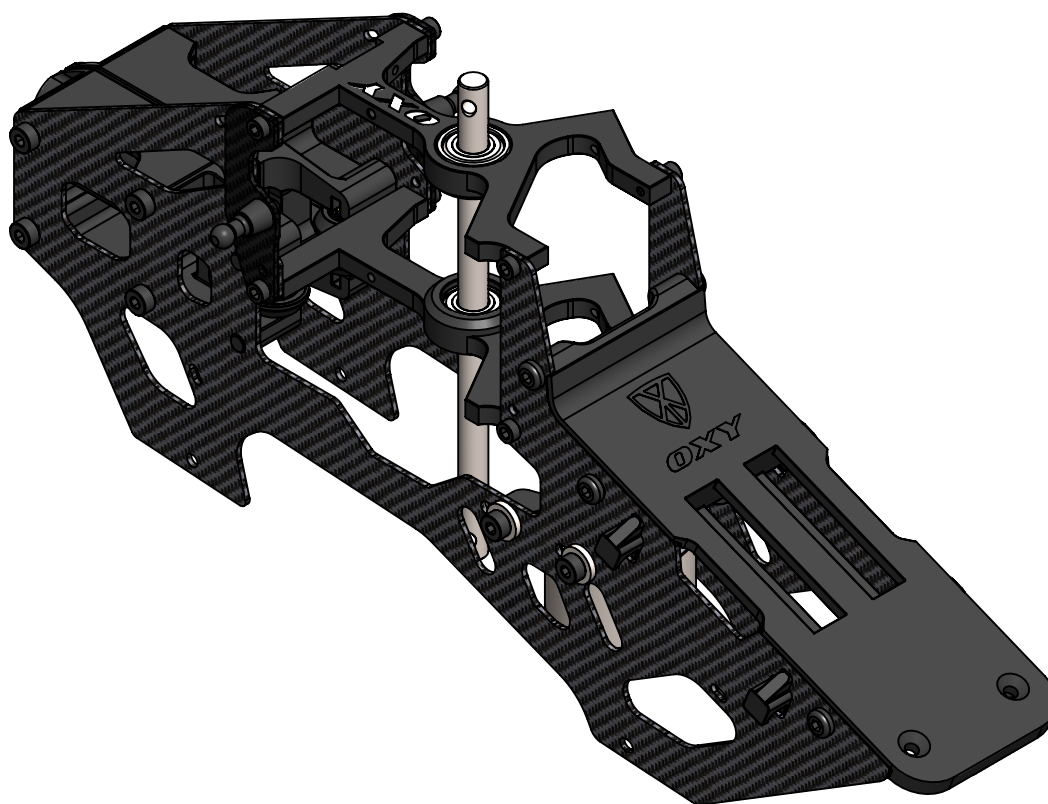
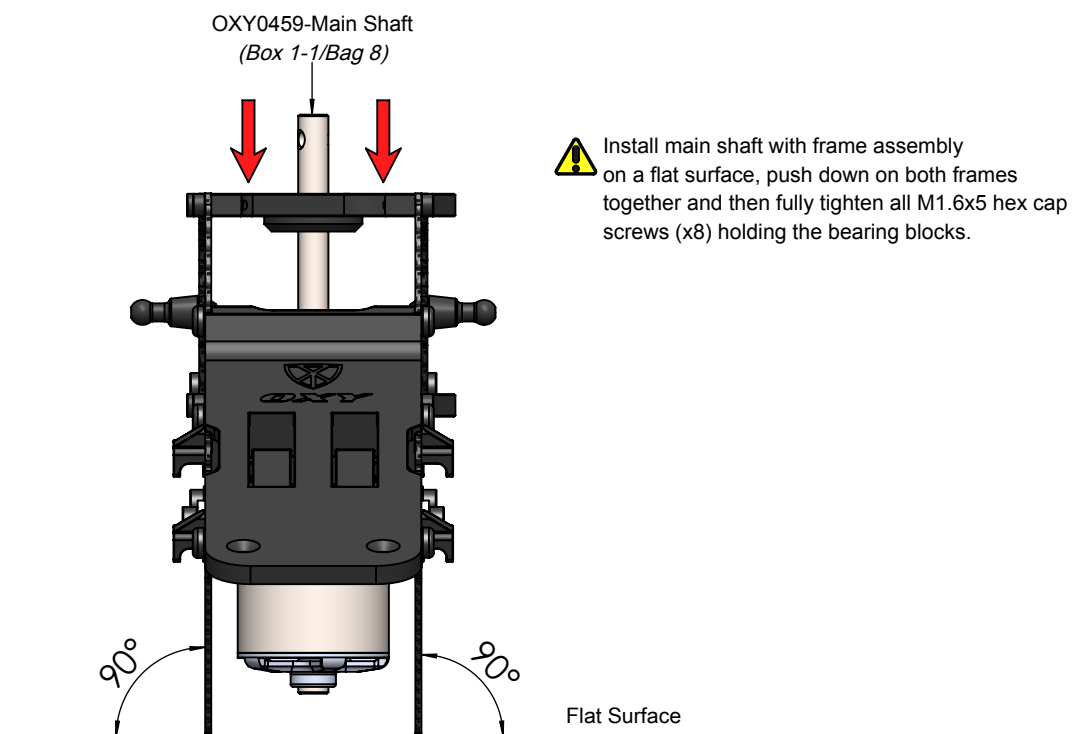


Main Frame Assembly Step 4

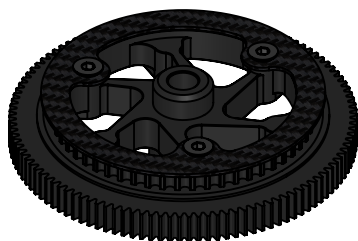
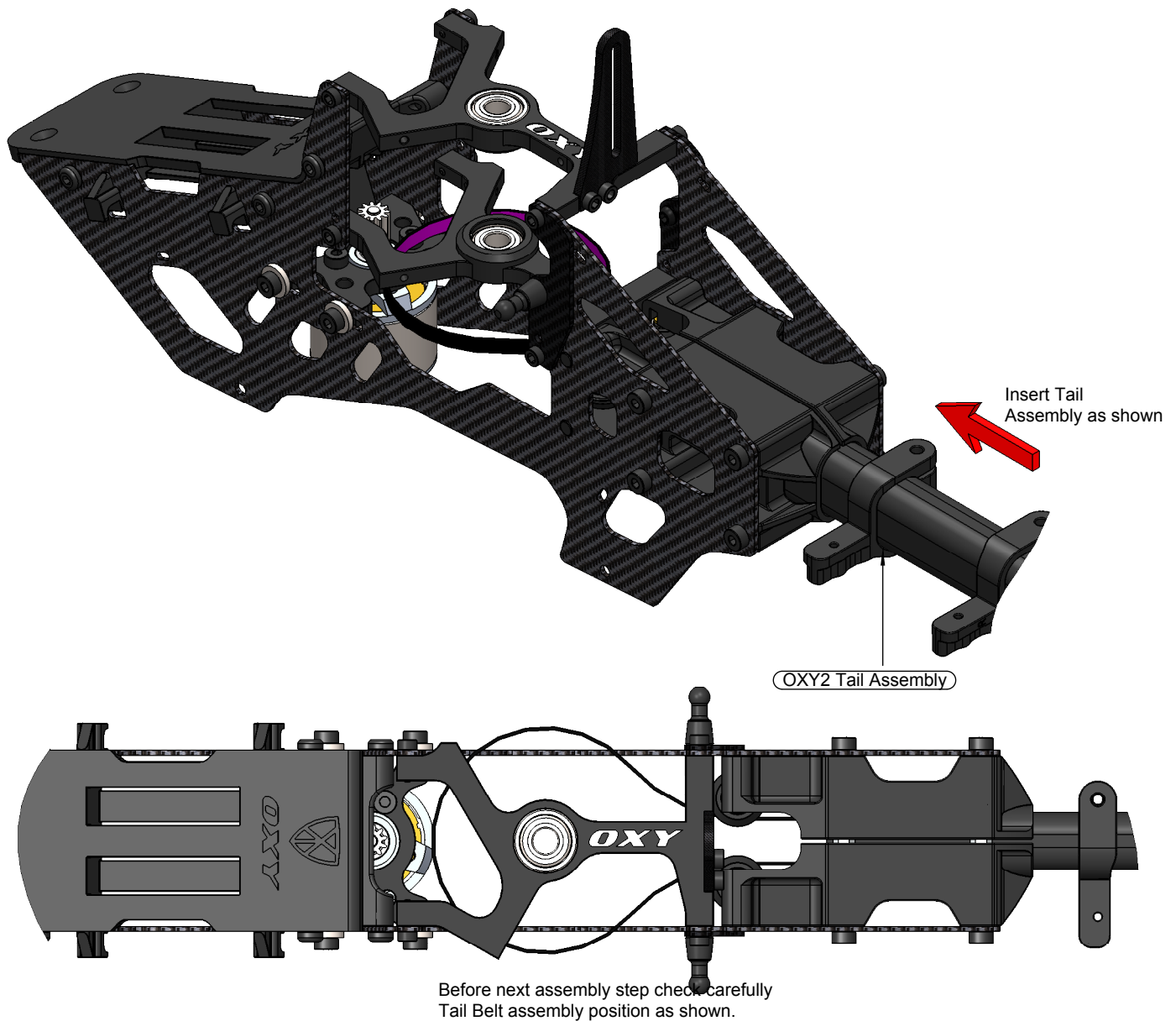


Main Frame Assembly Step 5





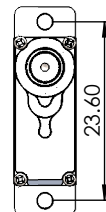
Tail System And Main Gear Installation



Main Gear 110T-55T pulley Assembly (Box 2/Bag 3)

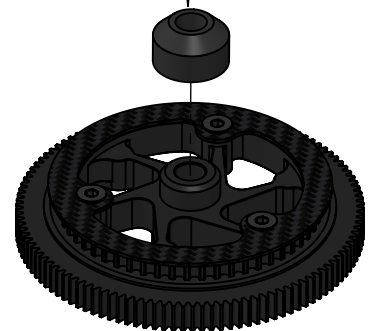
⚠ Important Note:
The Main Gear come factory pre assembled. It is ready to use.

⚠ OXY2 support two kind of servo dimension, use specific main gear bushing spacer for Servo type B.

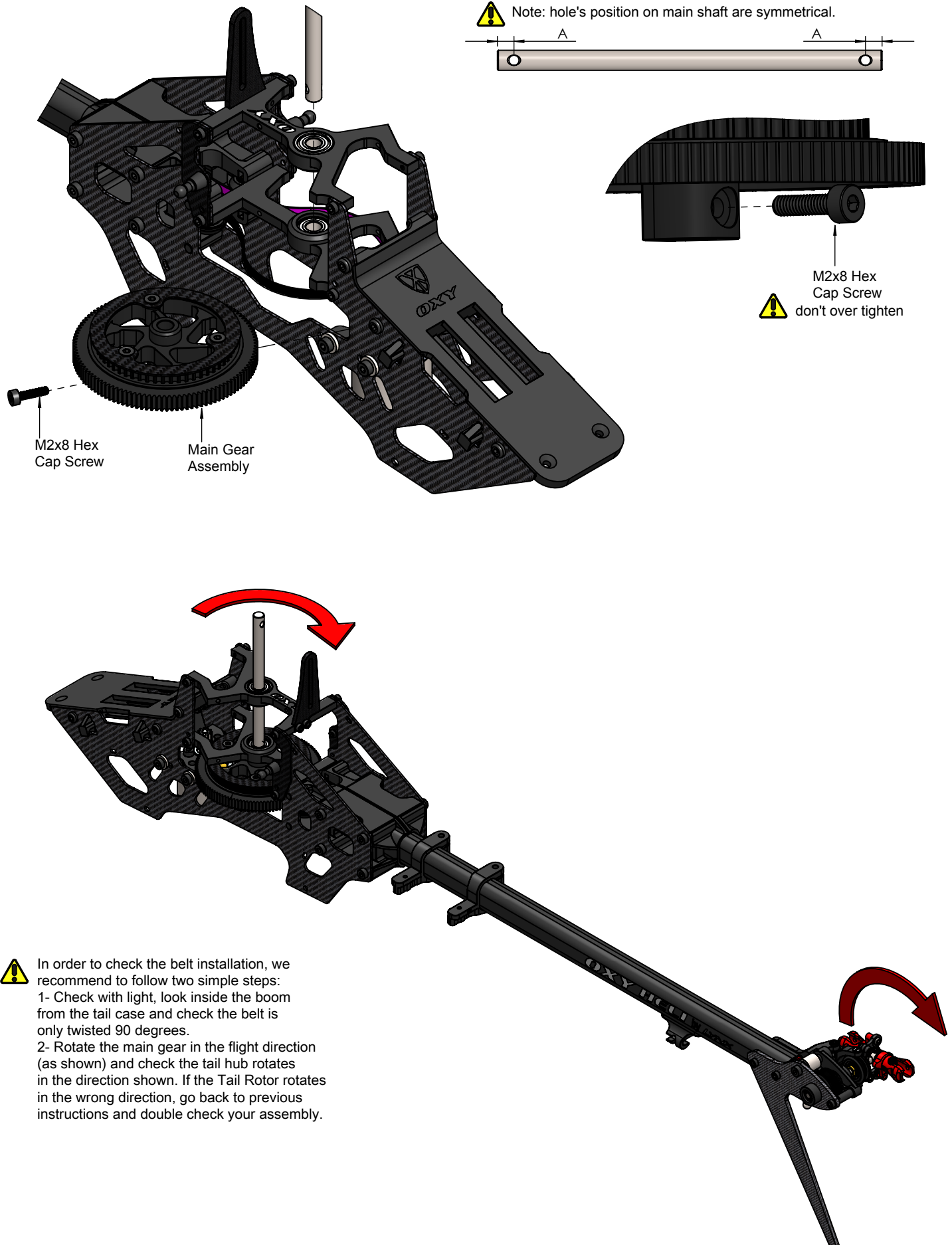


Servo Type B

OXY0247 - Main Gear Bushing

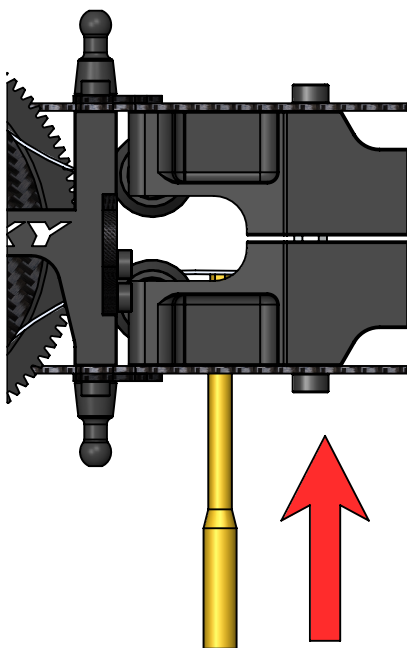
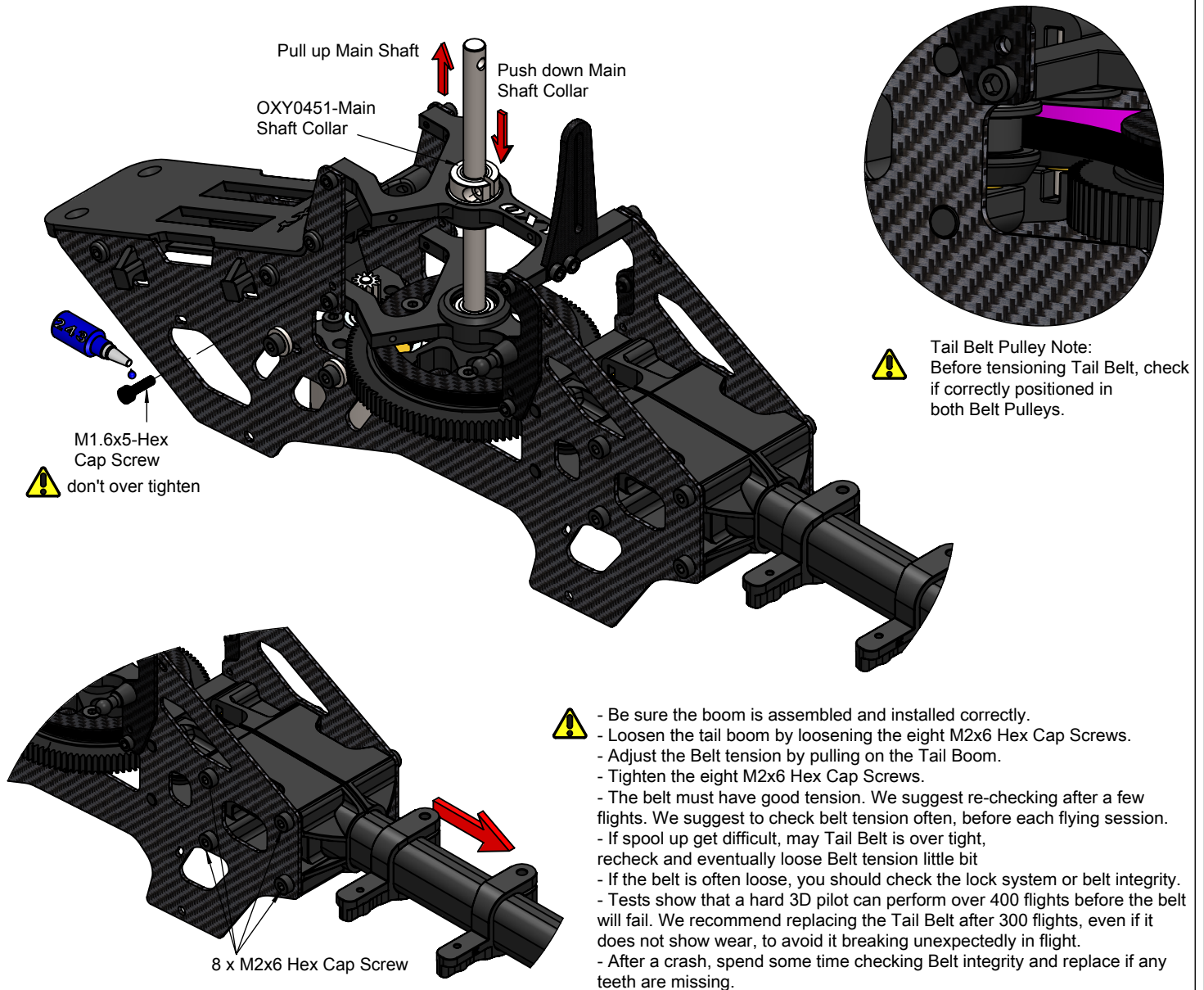


Main Gear And Main Shaft Installation:

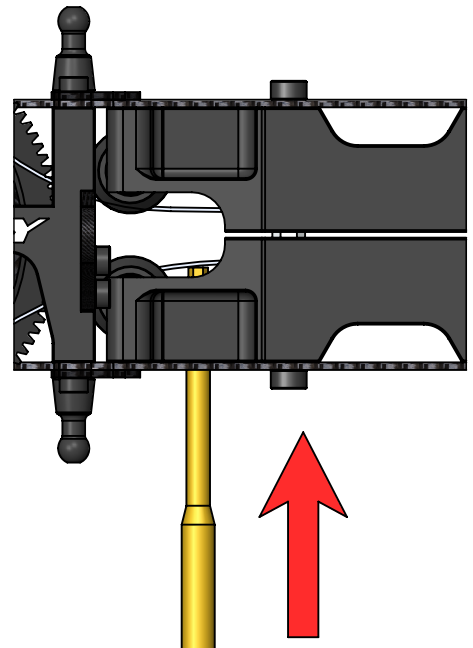


! In order to check the belt installation, we recommend to follow two simple steps:

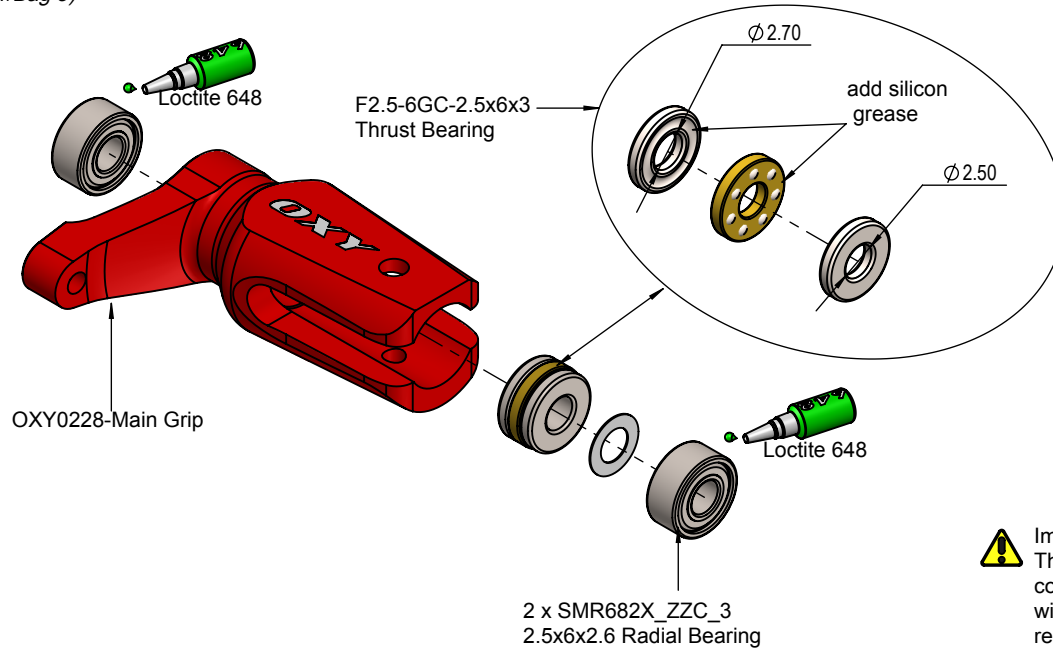
- 1- Check with light, look inside the boom from the tail case and check the belt is only twisted 90 degrees.
- 2- Rotate the main gear in the flight direction (as shown) and check the tail hub rotates in the direction shown. If the Tail Rotor rotates in the wrong direction, go back to previous instructions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

Main Shaft Collar and Tail Belt tensioning.

- 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".

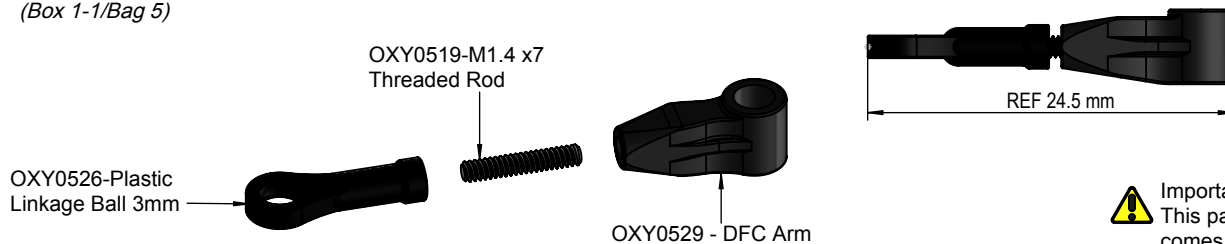


Main Grip Assembly (Box 1-1/Bag 5)



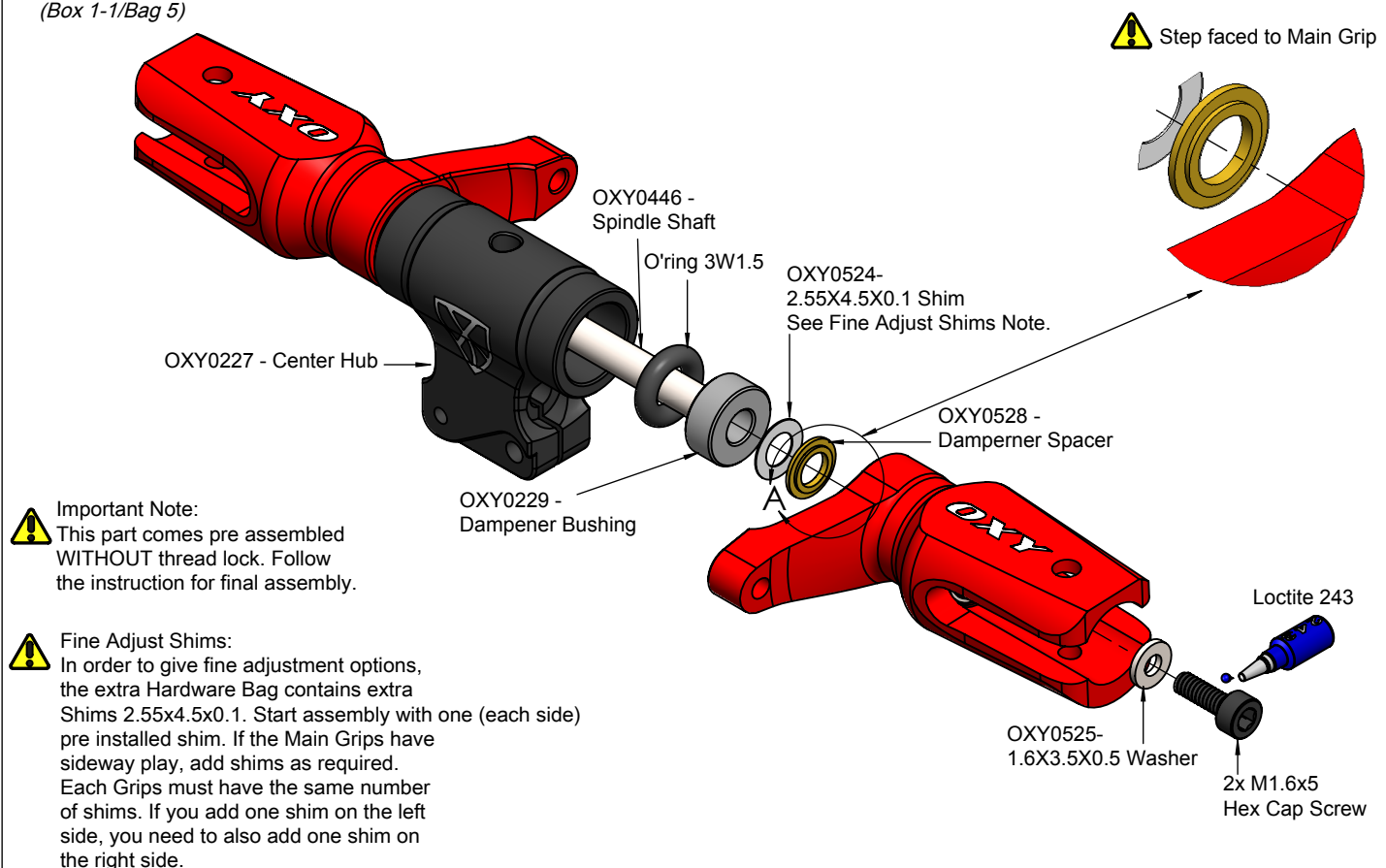
Important Note:
This part, for tuning reasons, comes factory pre assembled with grease and loctite. It is ready to use.

DFC Arm Assembly (Box 1-1/Bag 5)

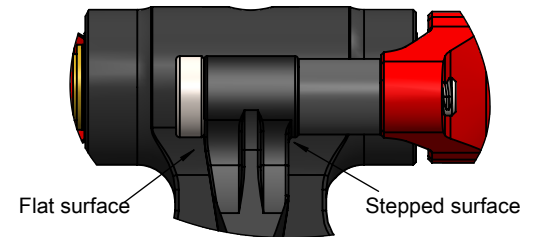
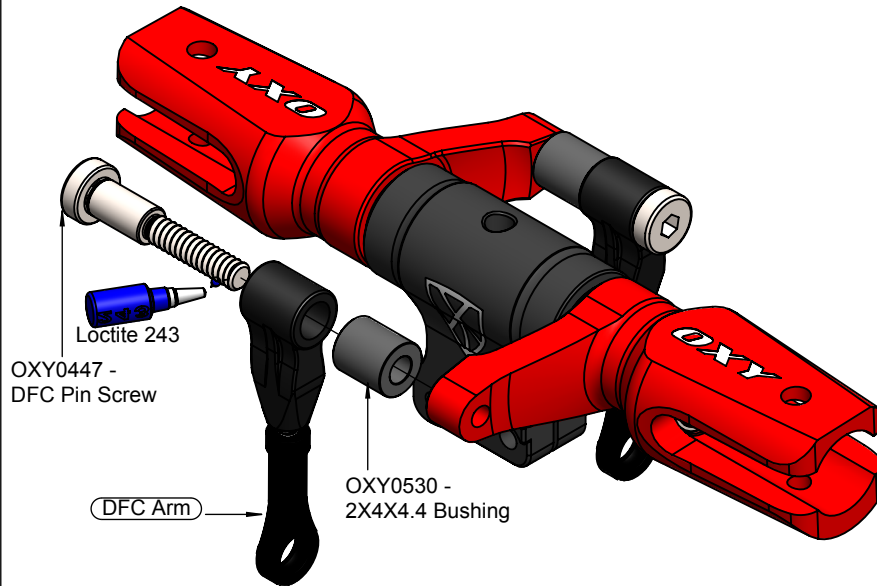


Important Note:
This part, for tuning reasons, comes factory pre assembled.

Main Rotor Assembly (Box 1-1/Bag 5)

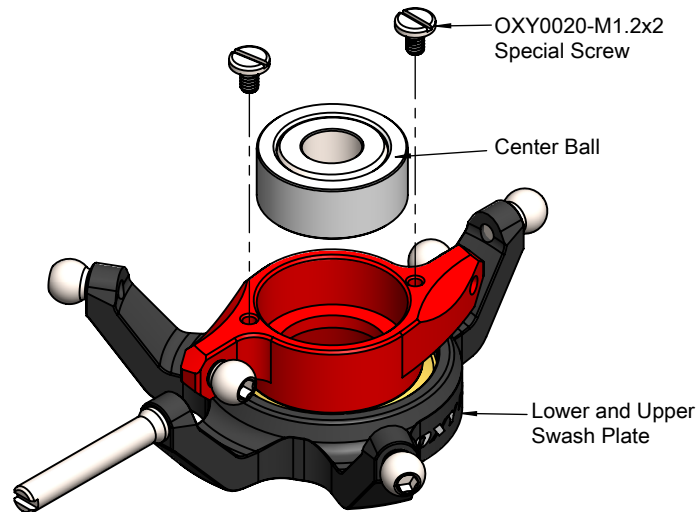


Main Rotor Assembly (Box 1-1/Bag 5)

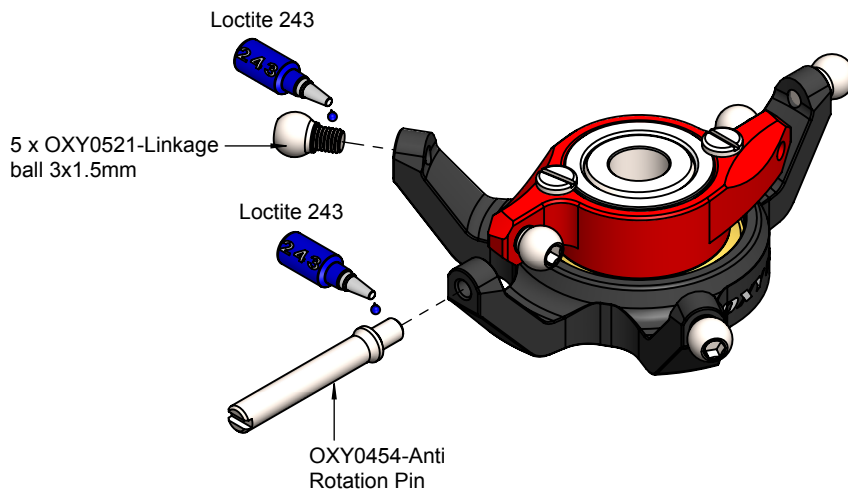


- DFC Arm are not symmetrical. Flat surface faced to Screw. Step faced to Main Grip.
- Important Note: This part comes pre assembled WITHOUT thread lock. Follow the instruction for final assembly.
- Once you finish assembly, ensure the DFC Arms can rotate without friction. If the DFC Arms are assembled correctly, rotation should be smooth and without friction. In case of any friction, recheck each component and re-assembly as necessary.

Swash Plate Assembly (Box 1-1/Bag 6)

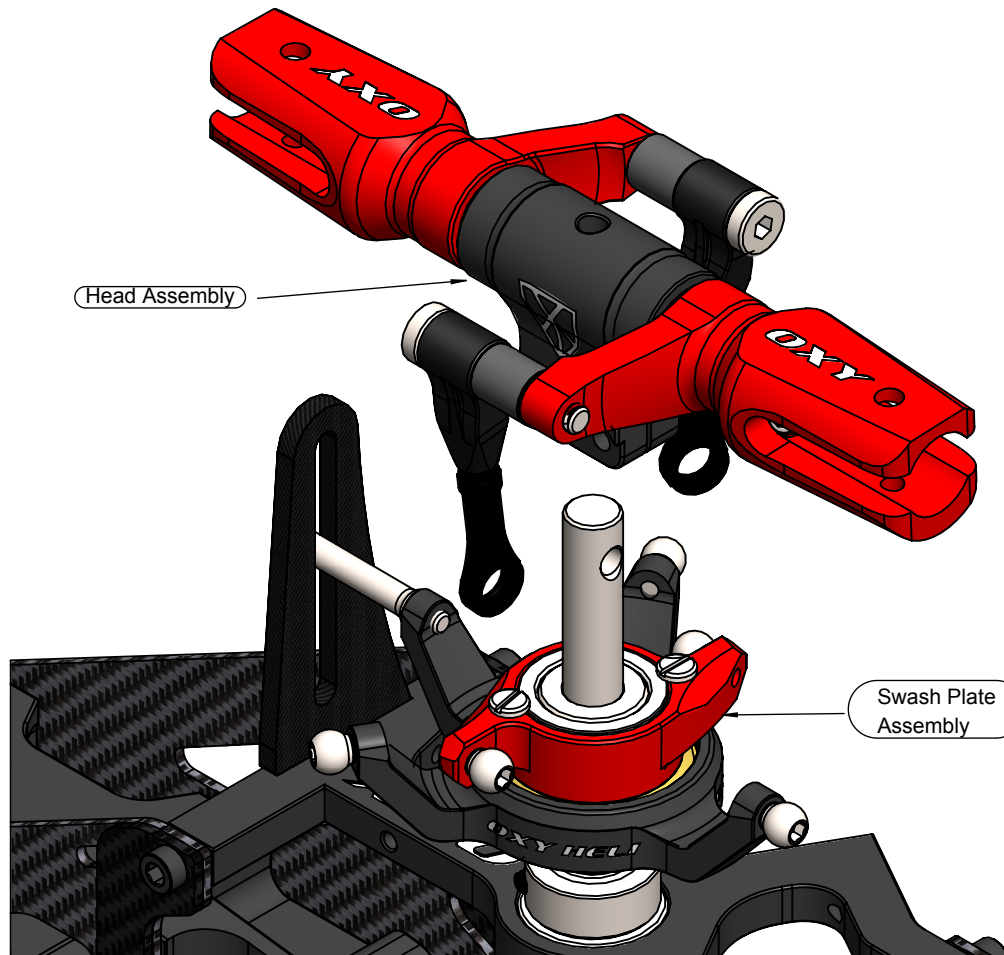


- Important Note: this part, for tuning reasons, comes factory pre assembled, it ready to use.

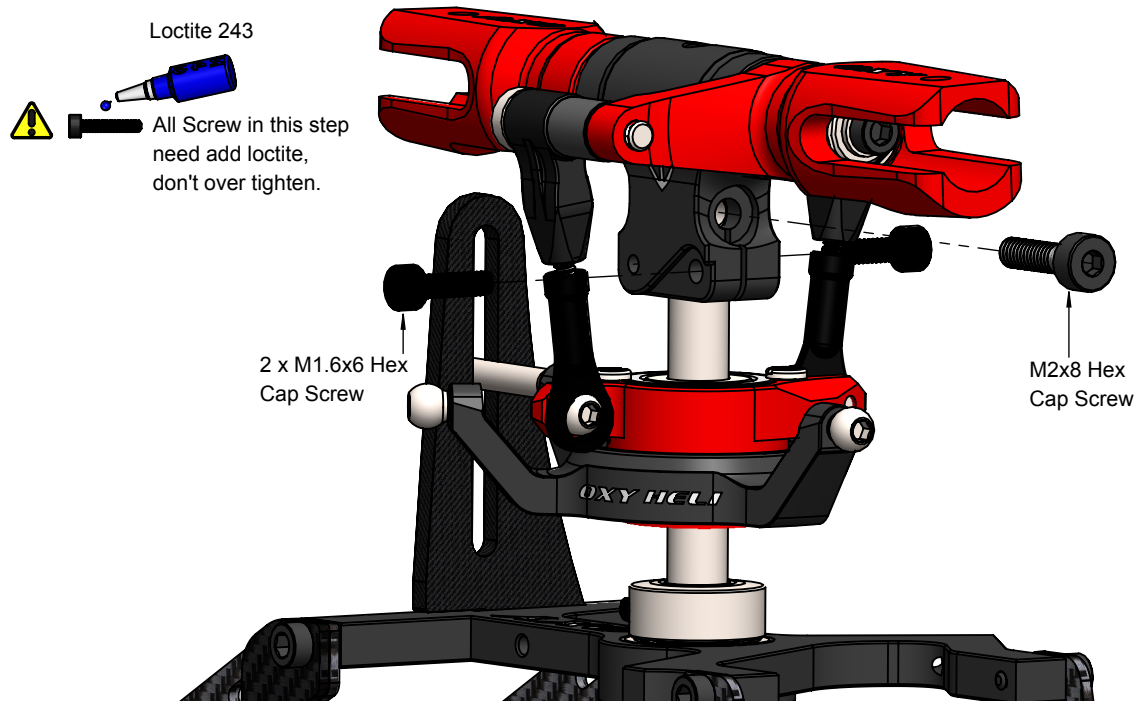


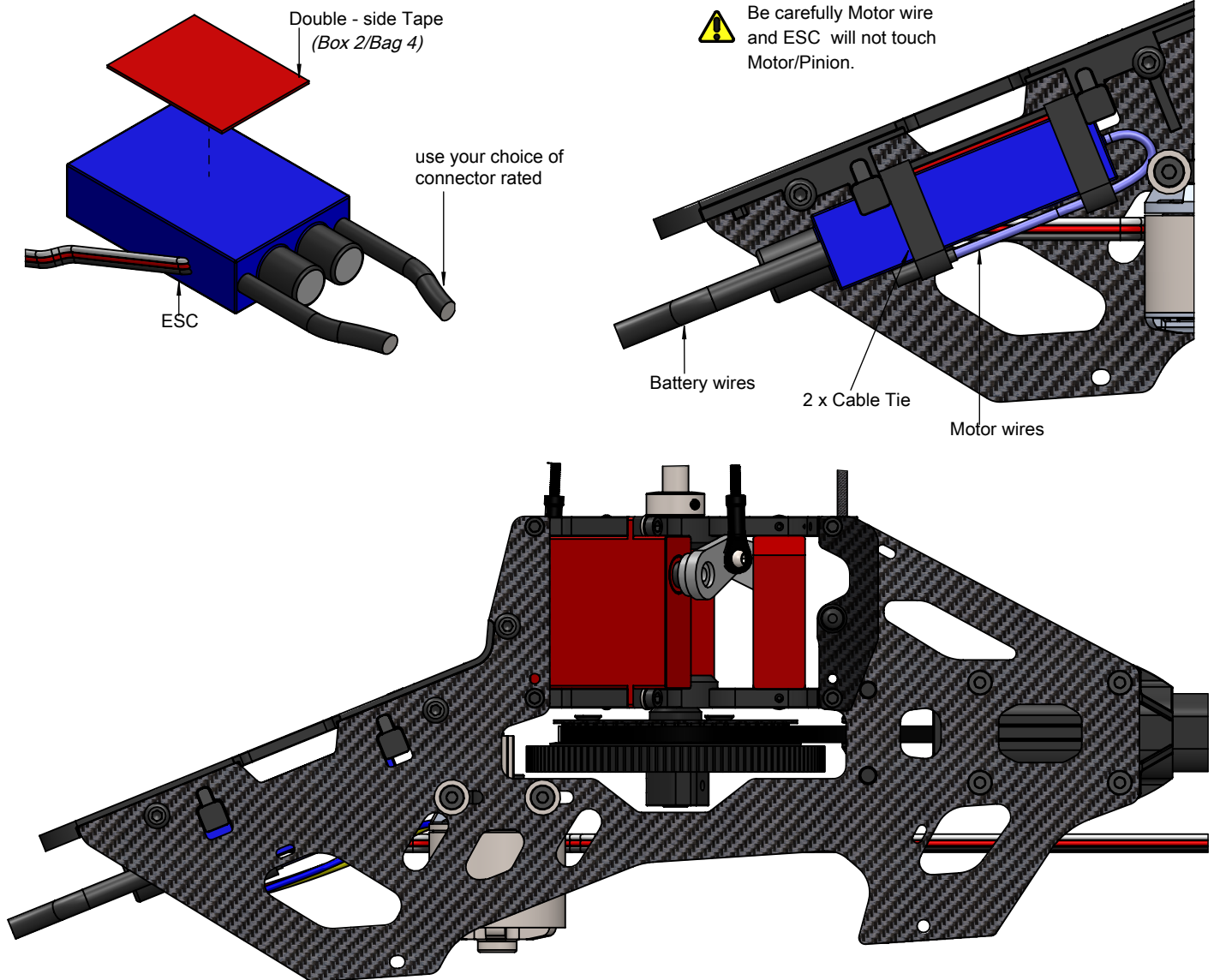
- Important Note: This part comes pre assembled WITHOUT thread lock. Follow the instruction for final assembly.
- Swivel Ball Note: The Swivel Ball is pre-assembled with a precise fitting. When new, the Swash Plate center ball will have a little friction. After a few flights and "break-in" it will come smooth, keeping the best precision without play.


Main Rotor Assembly step 1

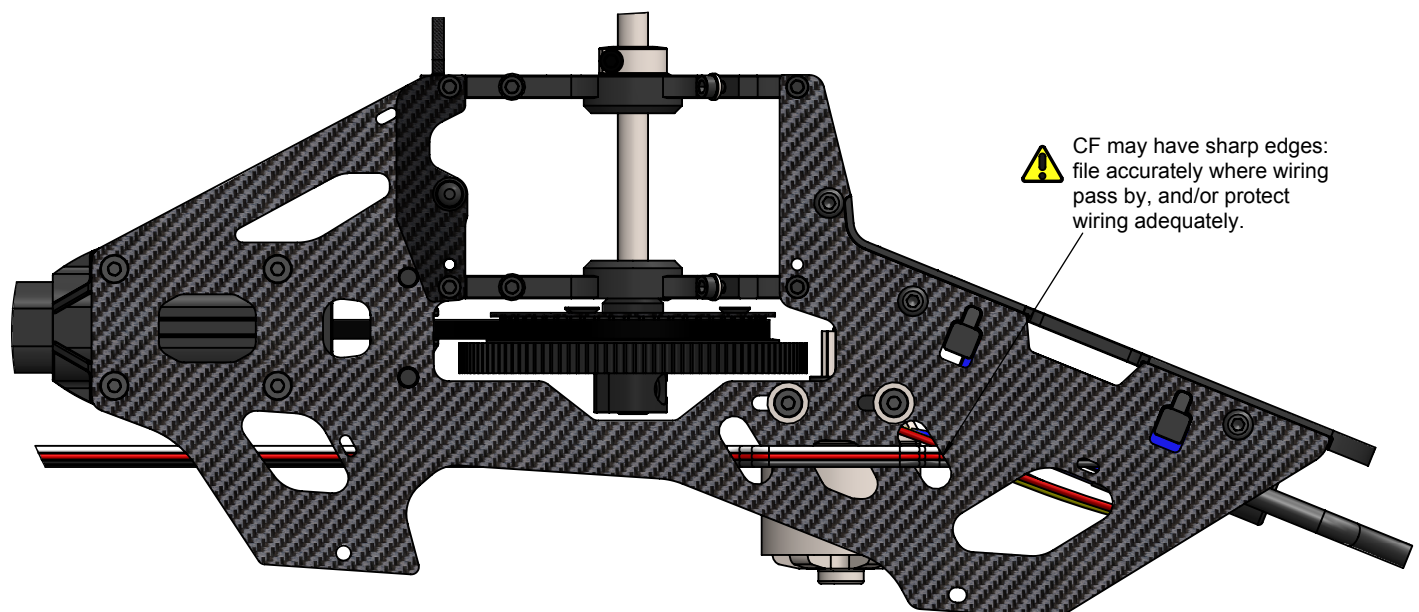


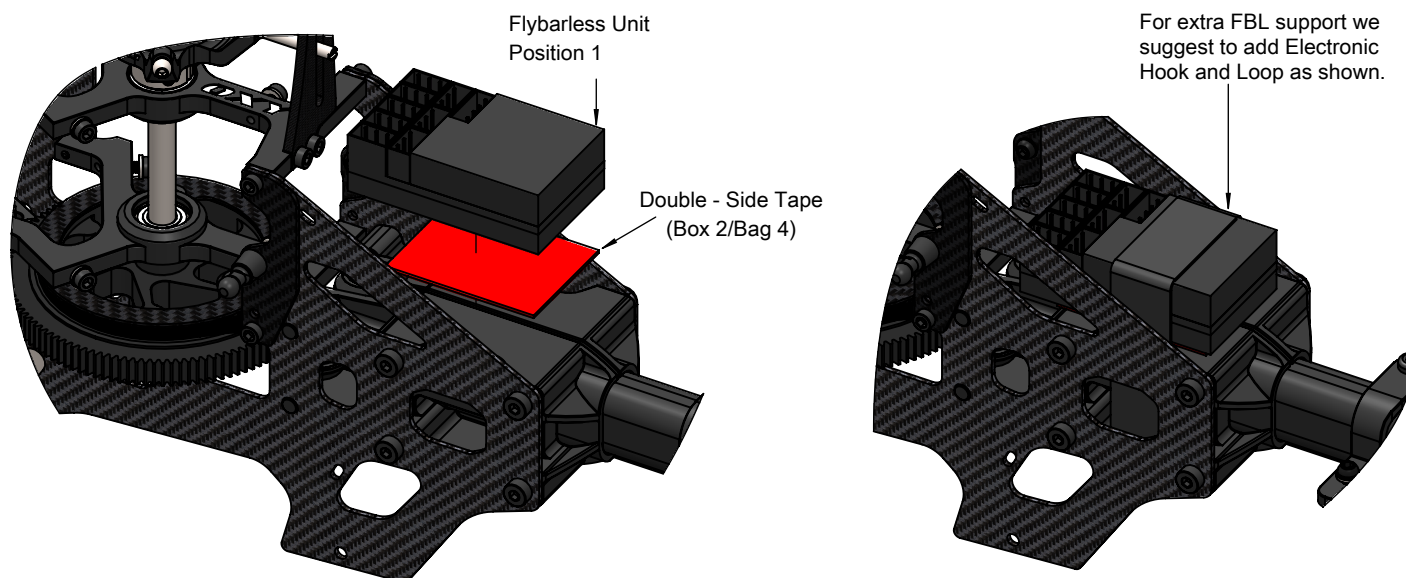
Main Rotor Assembly step 2



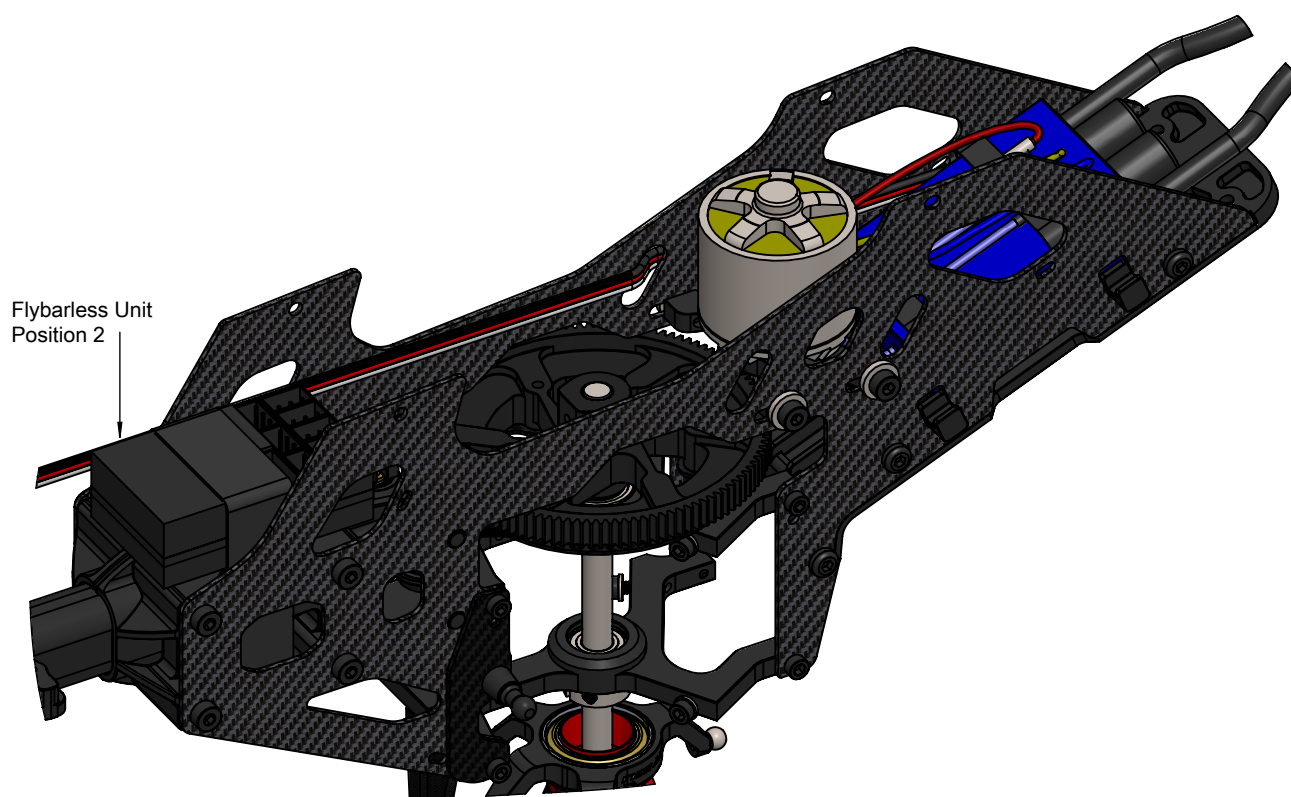


 Use 3 x cable ties, to secure the Throttle ESC wire to the main frame. Use the Frame built-in socket for best holding. In this Step connect the Motor and ESC Wires but don't secure yet. Wait till the final motor rotation check, once the FBL system is set up.
NOTE: To reverse Motor rotation direction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



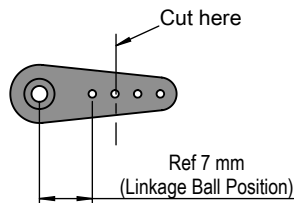


The FBL system can be installed at the bottom or top of the boom clamp. We suggest to use the bottom for easy wiring and servo removal.



- 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.

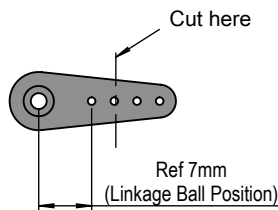
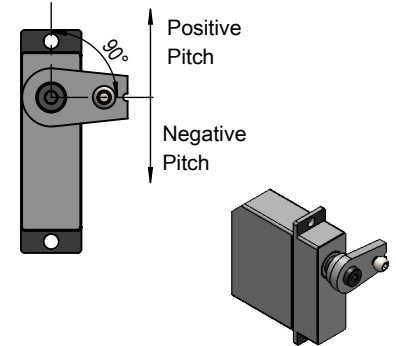
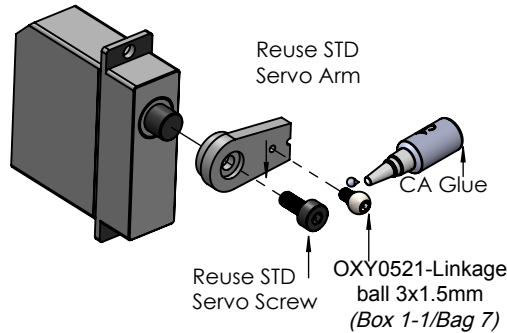
Cyclic Servo.



Linkage Ball Direction: cyclic servo
Linkage Ball, must installed as shown.



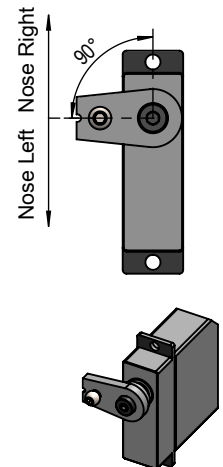
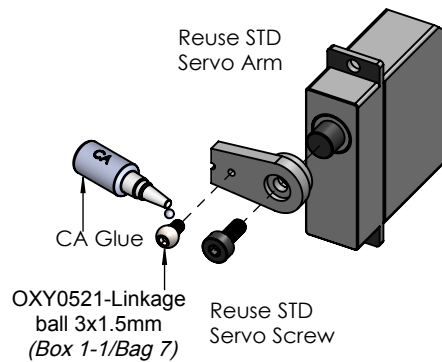
Arm position with zero deg pitch
and centered cyclic stick.



Linkage Ball Direction: The Tail servo
Linkage Ball must be installed as shown.



Arm position with zero deg pitch
and centered rudder stick.

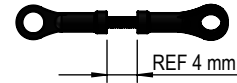


Servo Rod Assembled

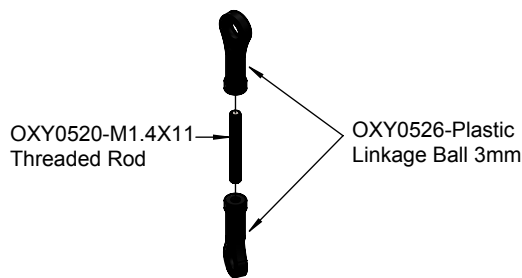
(Box 1-1/Bag 7)



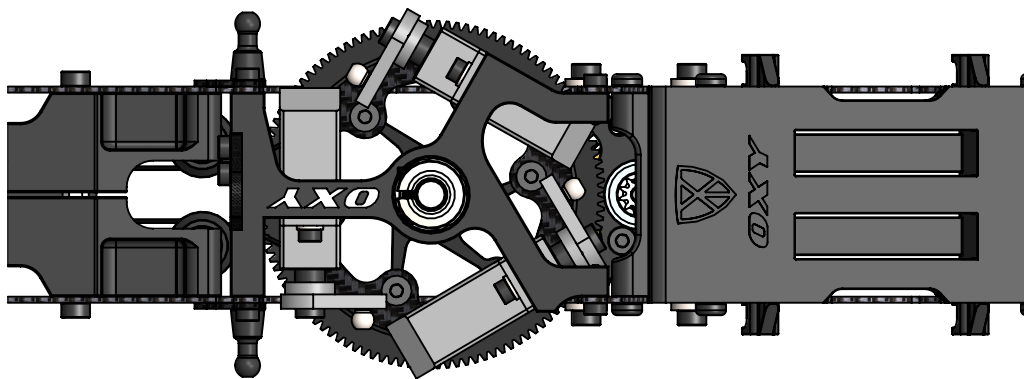
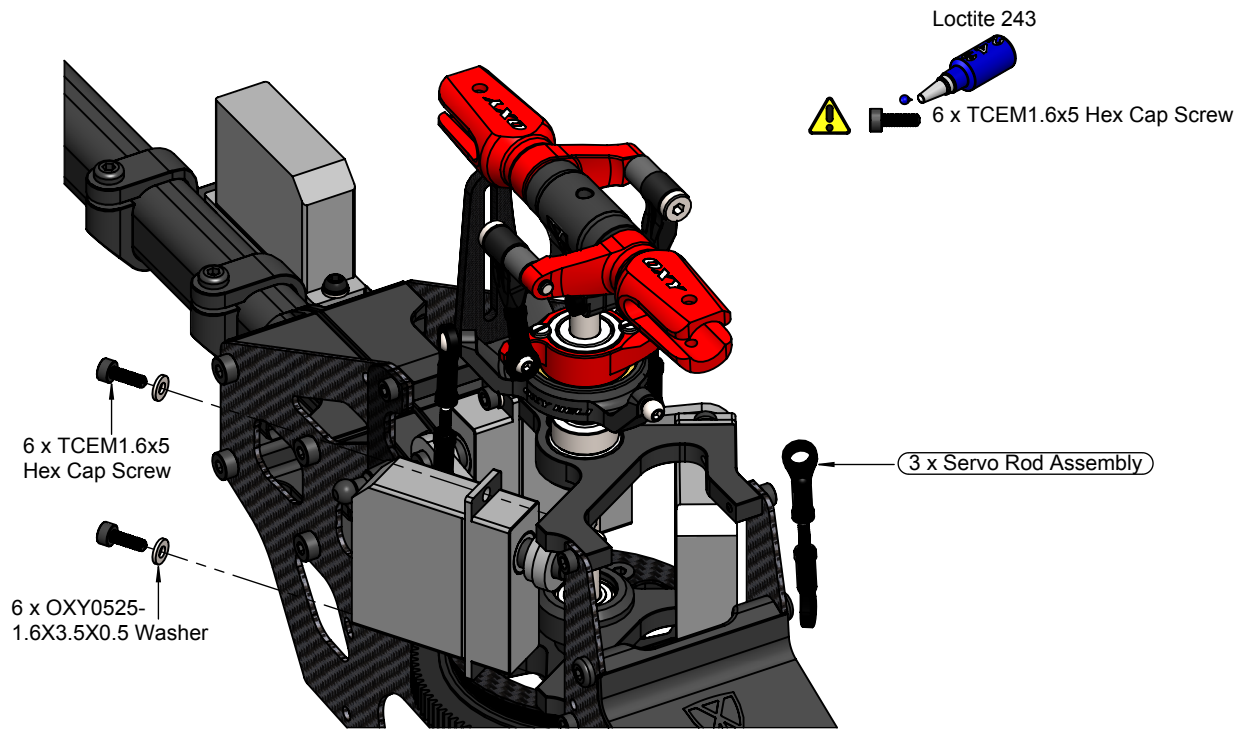
Servo Rod Reference
for Servo type A



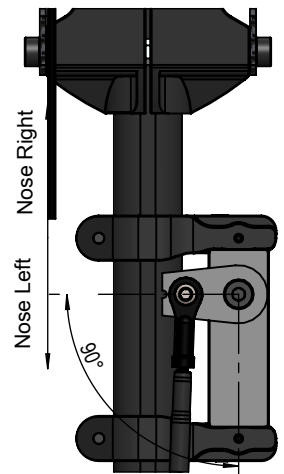
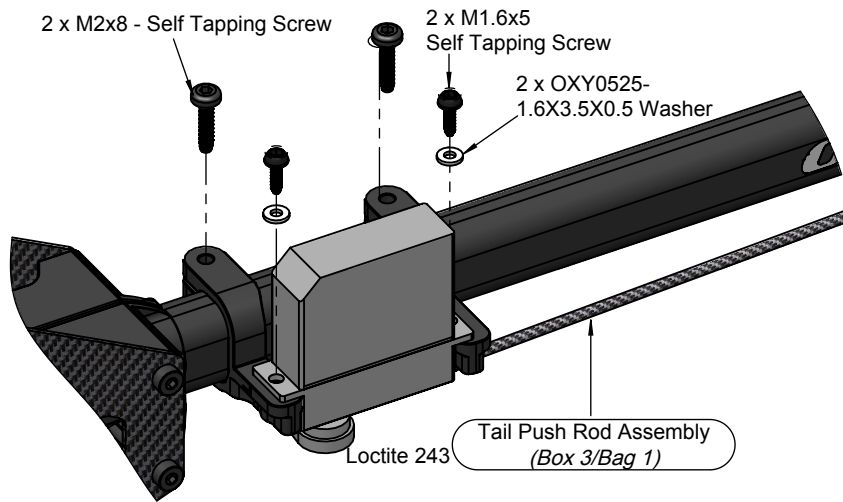
Servo Rod Reference
for Servo type B



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.



Servo Layout



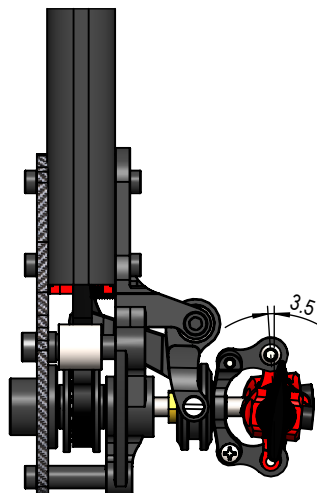
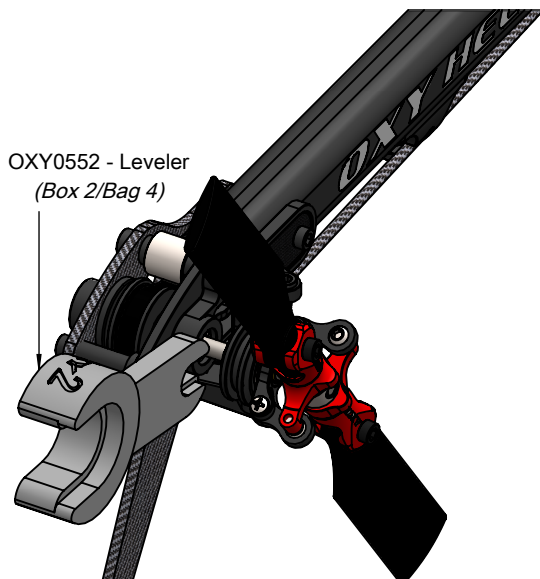
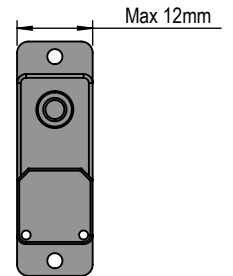
Bottom Heli View



Arm position with centered Rudder stick.



Maximum Tail Servo Size Note:



Top Heli View




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

Landing Gear & Battery Installation

Battery Straps
(Accessories Bag)

 Important Note: Use both double sided Hook and Loop Velcro and the included battery straps to fully secure the battery pack.

  4x M2x8 Self Tapping Screw don't over tighten

4x M2x8
Self Tapping Screw

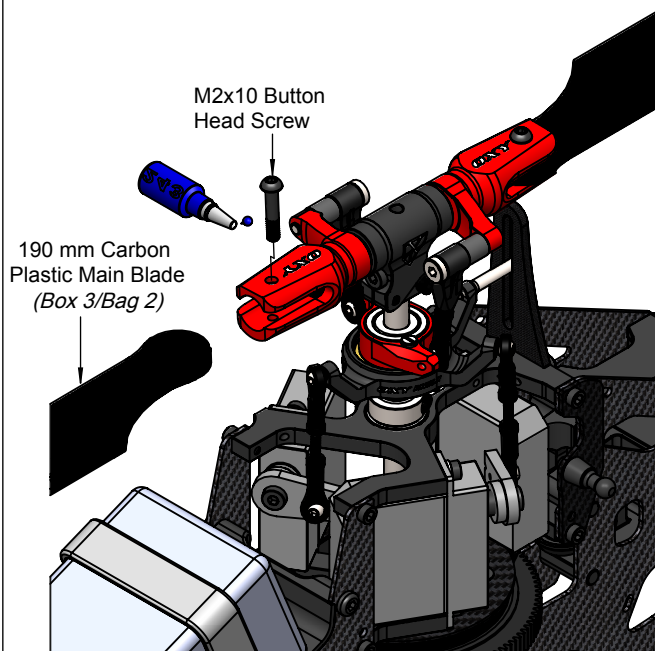
OXY0242-Right
Landing Gear
(Box 1/Bag 10)

OXY0237-Bottom
Landing Gear
(Box 1/Bag 10)

Satellite
EX

OXY0241-Left
Landing Gear
(Box 1/Bag 10)

Main Blades Installation

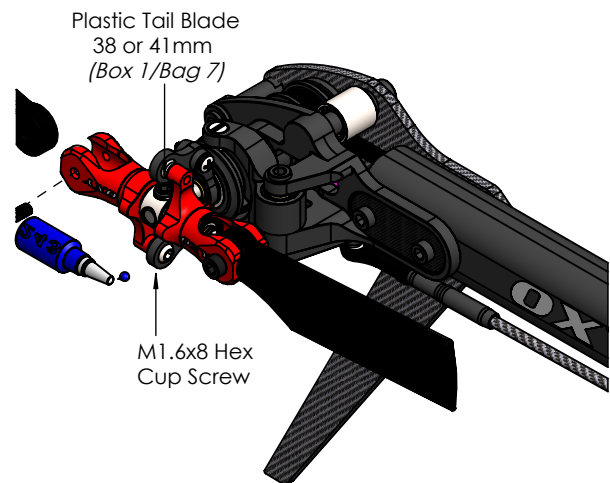


M2x10 Button
Head Screw

190 mm Carbon
Plastic Main Blade
(Box 3/Bag 2)


 Note: The Oxy Main Grips have a 3.2mm root cavity in order to work with any standard 190 / 210 main blade root.

Tail Blades Installation



Plastic Tail Blade
38 or 41mm
(Box 1/Bag 7)

M1.6x8 Hex
Cup Screw

 Oxy tail blade dimension note: In order to assure the best performance Oxy made a custom tail blade with a 3mm root. If you use different tail blades with a 2.5mm root you must use shims (not included).
Information about 38 and 41mm tail blades: In the kit we include two sets of tail blades - the 38mm are designed for high head speed, the 41mm are designed for low head speed. We recommends using 38mm when head speed is higher than 4000rpm.

OXY HELI

Before Fly:

Now complete the setup of your FBL system. In the Accessories Bag you will find an Oxy 3 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 2 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 15 for RPM and Pitch Settings. Cyclic Max pitch should be +/- 10.5 deg.

Tail Set Up:

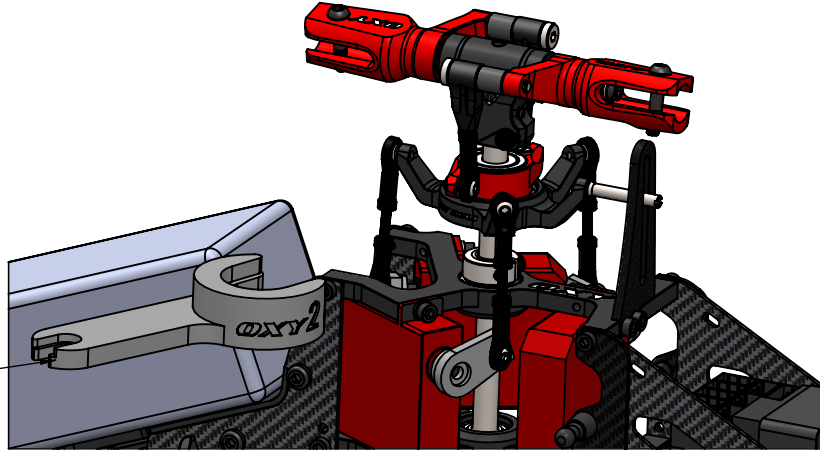
Use the suggested settings for 450 Helicopters BUT start with a lower Tail Gain

IKON / Brain = 20%

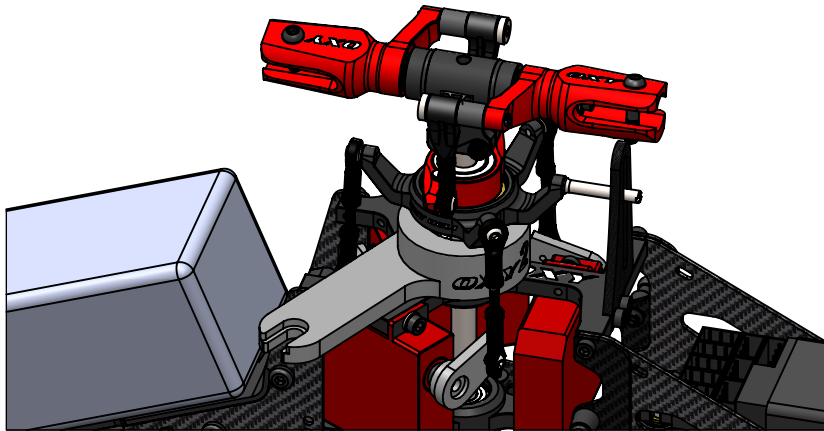
Mini V-Bar = 250 Heli suggested gain.


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

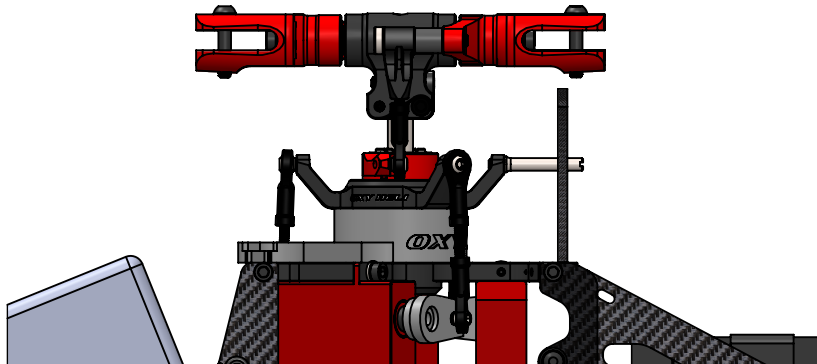
OXY0552 - Leveler
(Box 2/Bag 4)

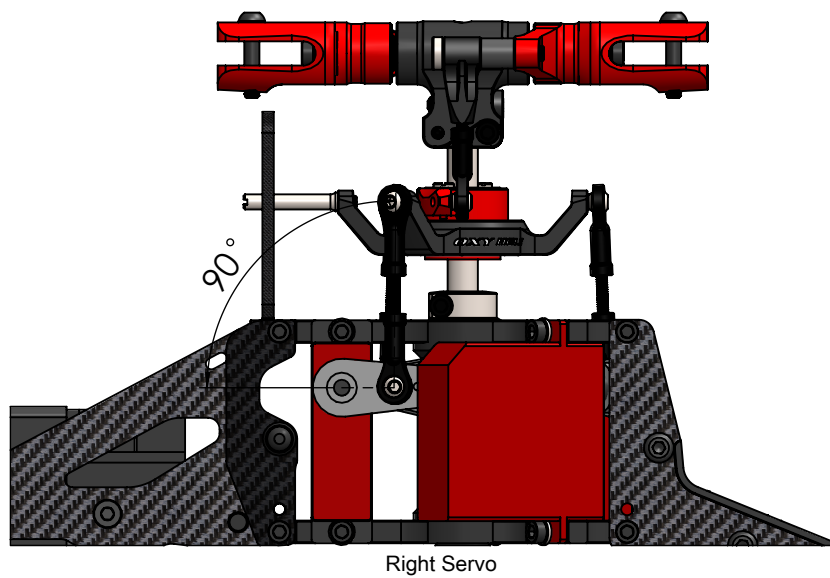
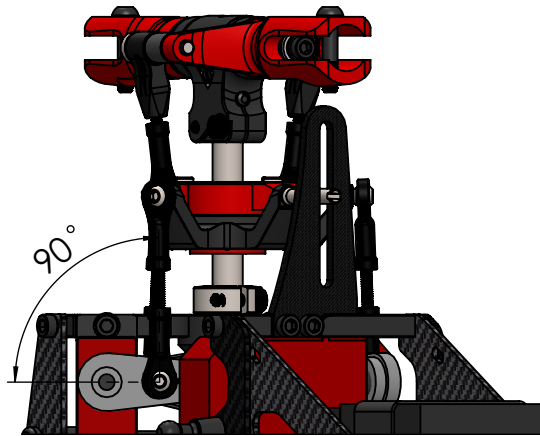
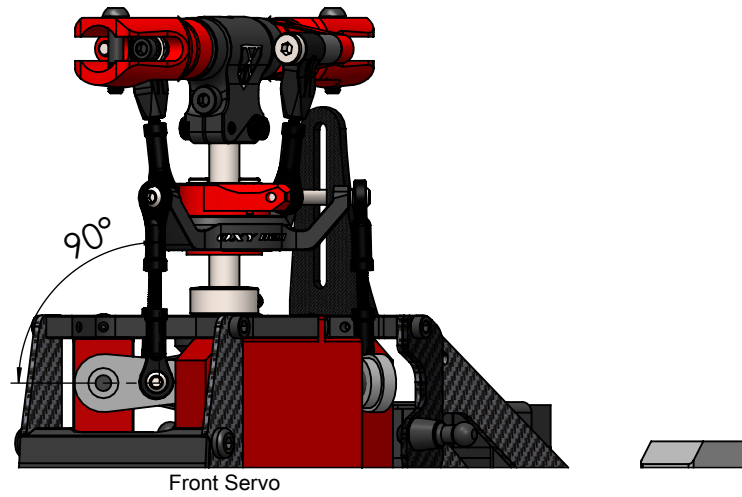


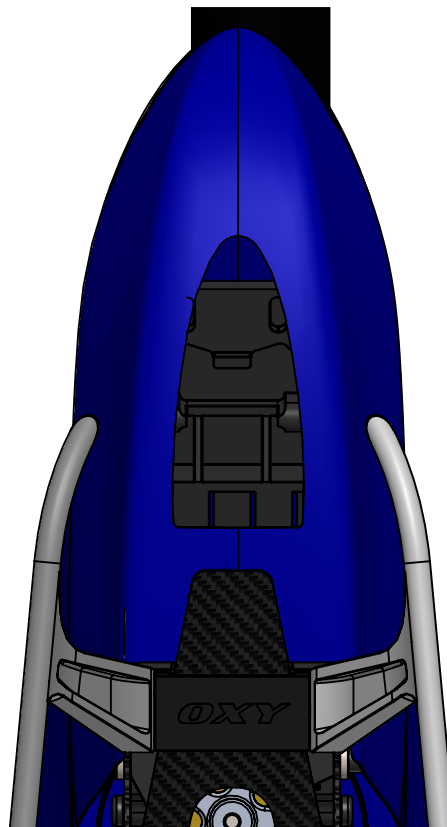
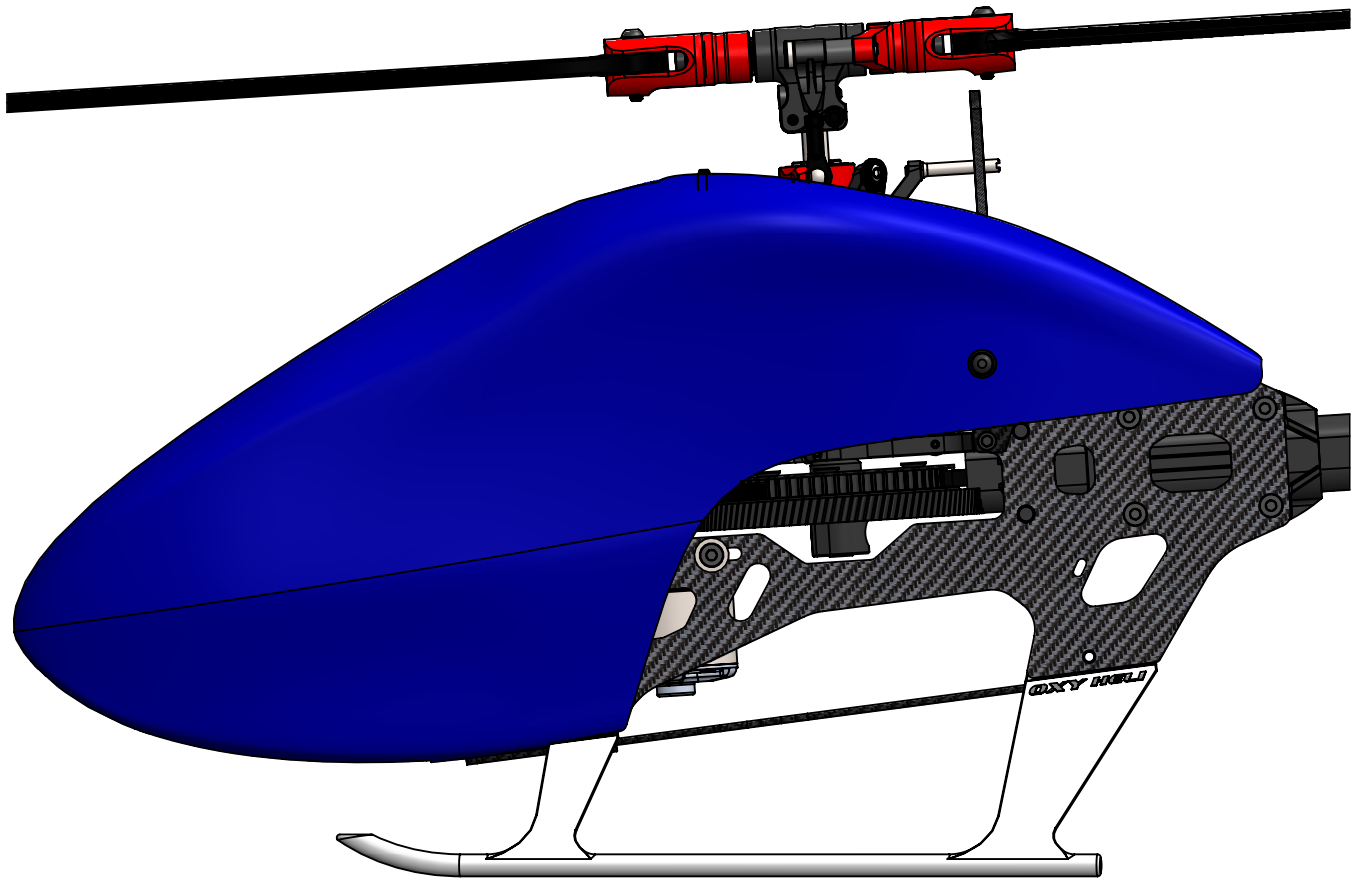
 Rotate Leveler as shown

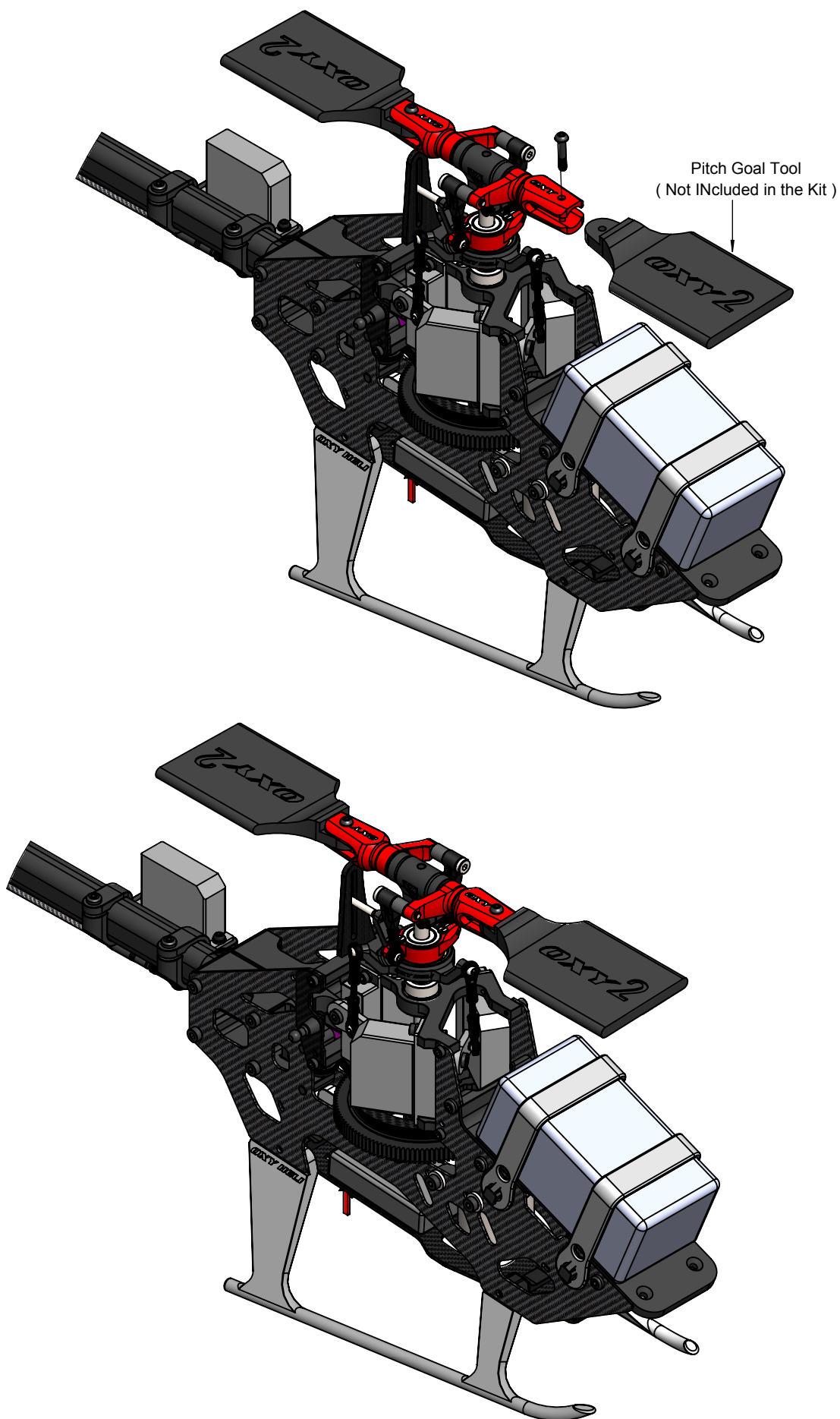


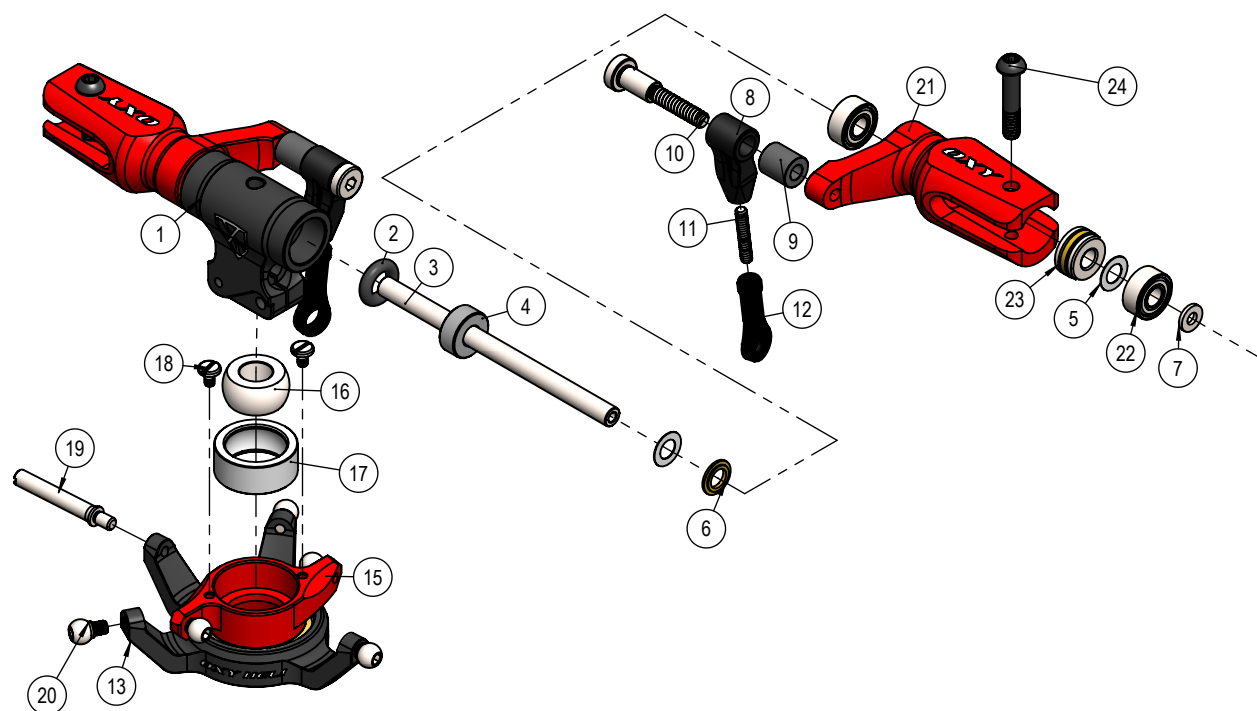
 Lift Swash Plate down until Swash Plate touch Leveler as shown.



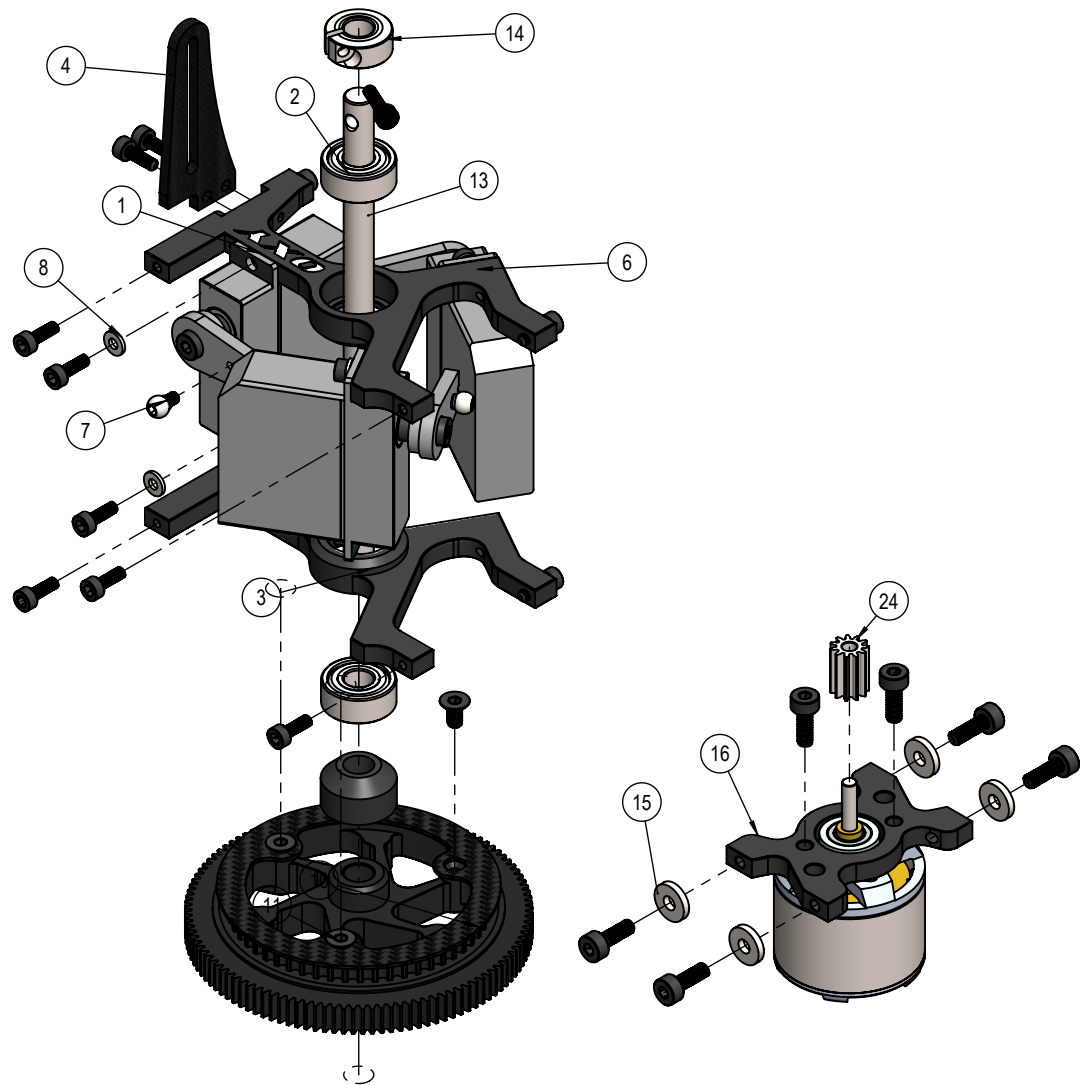




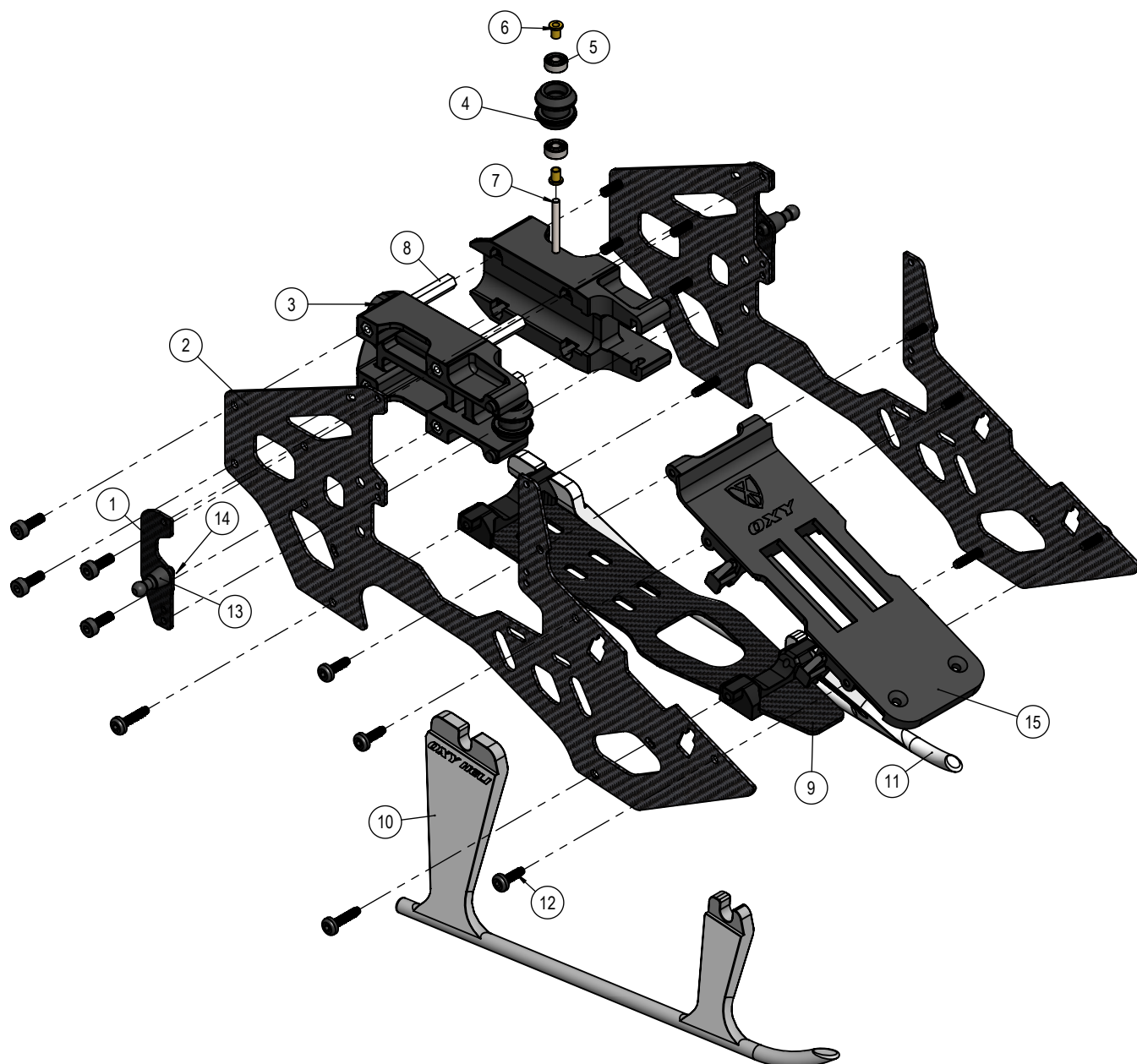




POS	Code	Name	QTY.
1	OXY0227	OXY2-CENTER HUB	1
2	OR3W1.5	Oring ID3x1.5	2
3	OXY0446	OXY2 Sindle Shaft	1
4	OXY0229	OXY2-Dampener Bushing	2
5	OXY0524	2.55x4.5x0.1 Shim	4
6	OXY0528	OXY2-Dampener Spacer	2
7	OXY0525	1.6x3.5x0.5 Washer	2
8	OXY0529	OXY2-DFC Arm	2
9	OXY0530	OXY2-2x4X4.4 Bushing	2
10	OXY0447	OXY2-DFC Pin Screw	2
11	OXY0519	Threaded Rod M1.4X7mm	2
12	OXY0526	Plastic Linkage Ball 3mm	2
13	OXY0234	OXY2-Lower Swash Plate	1
14	MR6700 ZZC	10X15W4 Radial Bearing	1
15	OXY0233	OXY2-Upper Swash Plate	1
16	OXY0017	Center Ball	1
17	OXY0016	Ball Holder	1
18	OXY0020	M1.2x2 SPECIAL SCREW	2
19	OXY0454	OXY2-Anti Rotation PIN	1
20	OXY0521	Linkage ball 3x1.5mm - DR1265	5
21	OXY0228	OXY2- Main Grip	2
22	SMR682Z-ZZ	2.5X6X2.6 Radial Bearing	4
23	F2.5-6GC	2.5x6x3 Thrust Bearing	2
24	OXY0078	M2X10 Bottom Screw	2

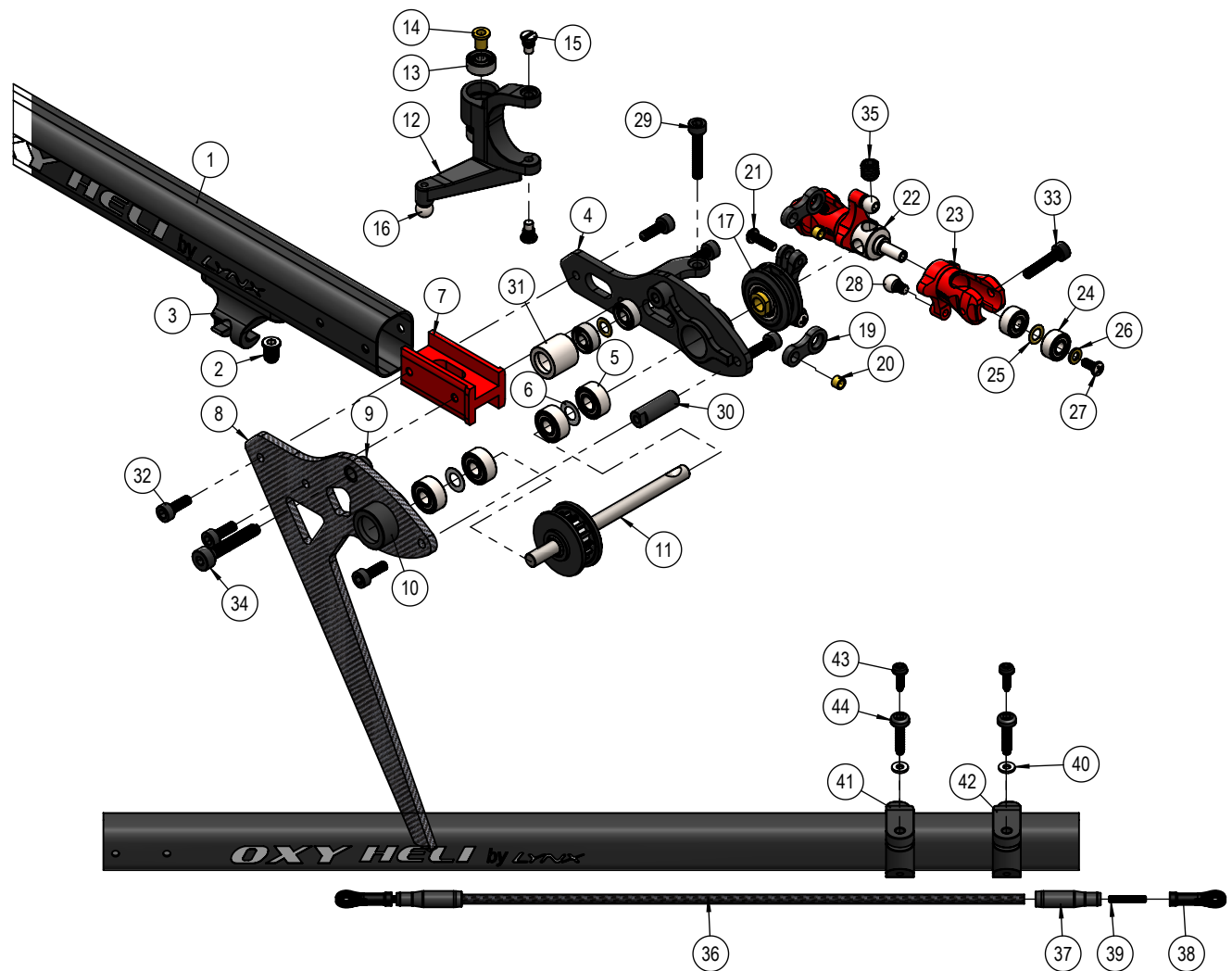


POS	Code	Name	QTY.
1	OXY0235	Upper Main Shaft Bearing Block	1
2	MR104_ZZC	4X10X4 RADIAL BEARING	2
3	OXY0236	Lower Main Shaft Bearing Block	1
4	OXY0251	OXY2-Anti Rotation Guide	1
7	OXY0521	Linkage ball 3x1.5mm - DR1265	3
8	OXY0525	1.6x3.5x0.5 Washer	6
9	OXY0263	OXY2-Main Frame	1
10	OXY0538	CF Main Gear Cover	1
11	FHSM2X4	M2x4 Flat Head Screw	3
12	OXY0247	OXY2-Main Gear Bushing	1
13	OXY0459	OXY2-Main Shaft	1
14	OXY0451	OXY2-Main Shaft Collar	1
15	OXY0081	2.1X5.5X1 Washer	4
24	OXY0744	OXY2-11T 0.4M 2mm Shaft Straight Pinion	1
25	TCEM2X5	M2X5 Hex Cap Screw	3
26	TCEM1.6X5	M1.6X5 Hex Cap Screw	16
27	TCEM1.6X6	M1.6x6 Hex Cap Screw	1
28	TCEM2X6	M2X6 Hex Cap Screw	6
29	OXY0690	113T-55T Pulley Strait Main Gear	1



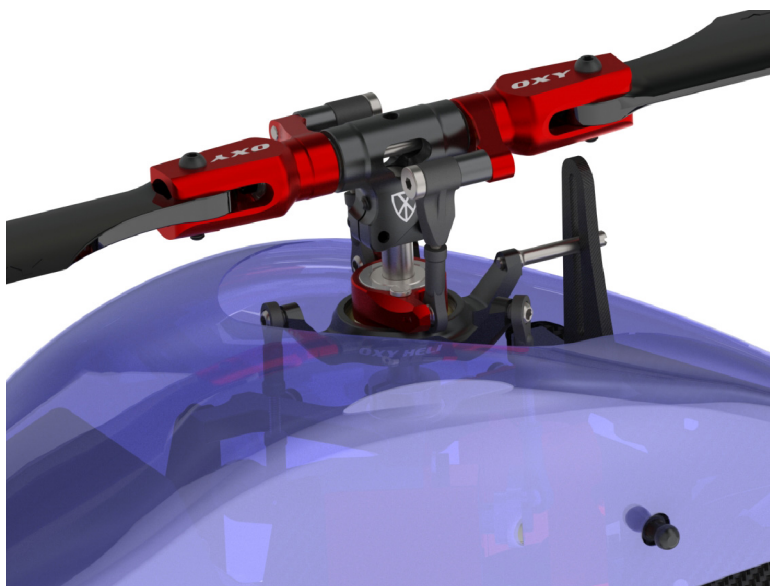
Pos.	Code	Name	QTY.
1	OXY0461	OXY2-Break Away Canopy	2
2	OXY0263	OXY2-Main Frame	2
3	OXY0452	OXY2-Boom Clamp	2
4	OXY0242	OXY2-Pulley Guide Belt	2
5	MR52-W2	2X5X2 RADIAL BEARING	4
6	OXY0460	OXY2 Bell Crank Bushing	4
7	OXY0532	1.6x13.8mm Pin	2
8	OXY0453	Boom Lock Rod	4
9	OXY0237	OXY2-Bottom Landing Gear	1
10	OXY0240	OXY2-Right Landing Gear	1
11	OXY241	OXY2-Left Landing Gear	1
12	TBES2X6	M2X6 Self Tapping Screw	6
13	OXY0260	Canopy Mount	2
14	TBESM1.6x5	M1.6x5 Self Tapping Screw	2
15	OXY0300	OXY2- Battery Tray	1
16	TBES2X8	M2X8 Self Tapping Screw	4
17	TCEM2X6	M2X6 Hex Cap Screw	8

OXY HELI



Pos	Part Number	Description	Qty	Pos	Part Number	Description	Qty
1	OXY0436	OXY2 Tail Boom Stretch	1	23	OXY0537	OXY2-AL Tail Grip	2
2	OXY0539	M2.5 Pin Screw	2	24	SMR682-ZZ	2X5X2.3 Radial Bearing	4
3	OXY0622	OXY2-TE Guide Push Rod	1	25	OXY0527	2x3.5x0.1 Shim	3
4	OXY0543	OXY2-Tail Case	1	26	OXY0551	1.5x2.8H0.4 Washer	2
5	SMR682Z-ZZ	2.5X6X2.6 Radial Bearing	4	27	PanM1.4x3	M1.4x3 Pan Head Screw	2
6	OXY0524	2.55x4.5x0.1 Shim	2	28	OXY0521	Linkage ball 3x1.5mm - DR1265	2
7	OXY0258	OXY2-Tail Case Center	1	29	TCEM1.6X10	M1.6X10 Hex Cap Screw	1
8	OXY0257	OXY2-Vertical Fin	1	30	OXY0540	OXY2-Tail Case Rod	1
9	OXY0516	2x3.5x2.2 Bushing	1	31	OXY0515	OXY2-Tensioner Bushing	1
10	OXY0279	OXY2-Vertical Fin Bushing	1	32	TCEM1.6X5	M1.6X5 Hex Cap Screw	6
11	OXY0256	OXY2-TAIL SHAFT	1	33	TCEM1.6x8	M1.6x8 Hex Cap Screw	2
12	OXY0604	OXY2-Tail Bell Crank	1	34	TCEM2X12	M2X12 Hex Cap Screw	1
13	MR52-W2	2X5X2 Radial Bearing	4	35	SCM3x3	Flat-Tip Set Screw M3x3	1
14	OXY0460	OXY2 Bell Crank Bushing	2	36	OXY0584	std tail push Carbon Rod	1
15	OXY0448	OXY2-Bell Crank Pin Screw	2	37	OXY0536	OXY2-Tail Push Rod Terminal	2
16	OXY0628	3mm Steel Ball 3mm thread long	1	38	OXY0526	Plastic Linkage Ball 3mm	2
17	OXY0607	OXY2-Tail Pitch Slider Ring	1	39	OXY0519	Threaded Rod M1.4X7mm	2
18	OXY0457	OXY2-Tail Pitch Slider Bushing	1	40	OXY0525	1.6x3.5x0.5 Washer	2
19	OXY0522	OXY2-Link Control	2	41	OXY0605	OXY2-Tail Servo Support	1
20	OXY0523	OXY2-Link Control Buhing	2	42	OXY0606	OXY2-Tail Servo Support	1
21	PanM1.4x5	M1.4x5 Pan Head Screw	2	43	TBESM1.6x5	M1.6x5 Self Tapping Screw	2
22	OXY0253	OXY2-Tail Hub	1	44	TBES2X8	M2X8 Self Tapping Screw	2

OXY HELI



**SP-OXY2-001-OXY2-
CNC Aluminum Center Hub**



1 x OXY2-Center Hub
2 x M1.6x6 Hex Cap Screw
1 x M2X8 Hec Cap Screw

**SP-OXY2-002 - OXY2 -
CNC Aluminum Main Grip, Set**



2 x OXY2- Main Grip
4 x 2.5X6X2.6 Radial Bearing
2 x 2.5x6x3 Thrust Bearing
2 x 2.55x4.5x0.1 Shim
2 x M2X10 Buttom Screw

**SP-OXY2-003 - OXY2 -
Damperner, Set**



2 x OXY2-Damperner Spacer
2 x 2.55x4.5x0.1 Shim
2 x OXY2-Dampener Bushing
2 x O'ring ID3x1.5

**SP-OXY2-004 - OXY2 -
Plastic DFC Arm, Set**



2 x OXY2-DFC Arm
2 x Threaded Rod M1.4X7mm
2 x Plastic Linkage Ball 3mm

**SP-OXY2-005 -
3 mm Linkage Ball, 10Pcs**



10 x Plastic Linkage Ball 3mm

**SP-OXY2-006 -
M1.4x11 Threaded Rod, 10Pcs**



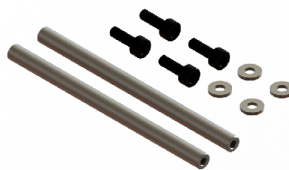
10 x M1.4X11 Threaded Rod

**SP-OXY2-007 -
OXY2 - Main Shaft, 2 PCS**



2 x OXY2-Main Shaft
1 x OXY2-Main Shaft Collar
1 x M1.6x6 Hex Cap Screw
4 x M2X8 Hex Cap Screw

**SP-OXY2-008 - OXY2 -
Spindle Shaft, 2 Set**



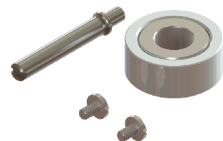
2 x OXY2 Sindle Shaft
4 x 1.6x3.5x0.5 Washer
4 x M1.6X5 Hex Cap Screw

**SP-OXY2-009 -
3mm Steel Ball, 10 PCS**



10 x Linkage ball 3x1.5mm

**SP-OXY2-010 - OXY2 -
Swash Plate, Service Bag**



1 x Ball Holder
1 x Center Ball
2 x M1.2x2 Special Screw

**SP-OXY2-011 - OXY2 -
Swash Plate, Set**



1 x OXY2-Lower Swash Plate
1 x OXY2-Upper Swash Plate
1 x 10X15W4 Radial Bearing
1 x Center Ball
1 x Ball Holder
2 x M1.2x2 Special Screw
1 x OXY2-Anti Rotation Pin
1 x Linkage ball 3x1.5mm

**SP-OXY2-013 - OXY2 -
Main Grip Service Bag**



4 x 2.5X6X2.6 Radial Bearing
2 x 2.5x6x3 Thrust Bearing
2 x 2.55x4.5x0.1 Shim
2 x M2X10 Button Screw

**SP-OXY2-058 - OXY2 -
DFC Pin Screw, Set**

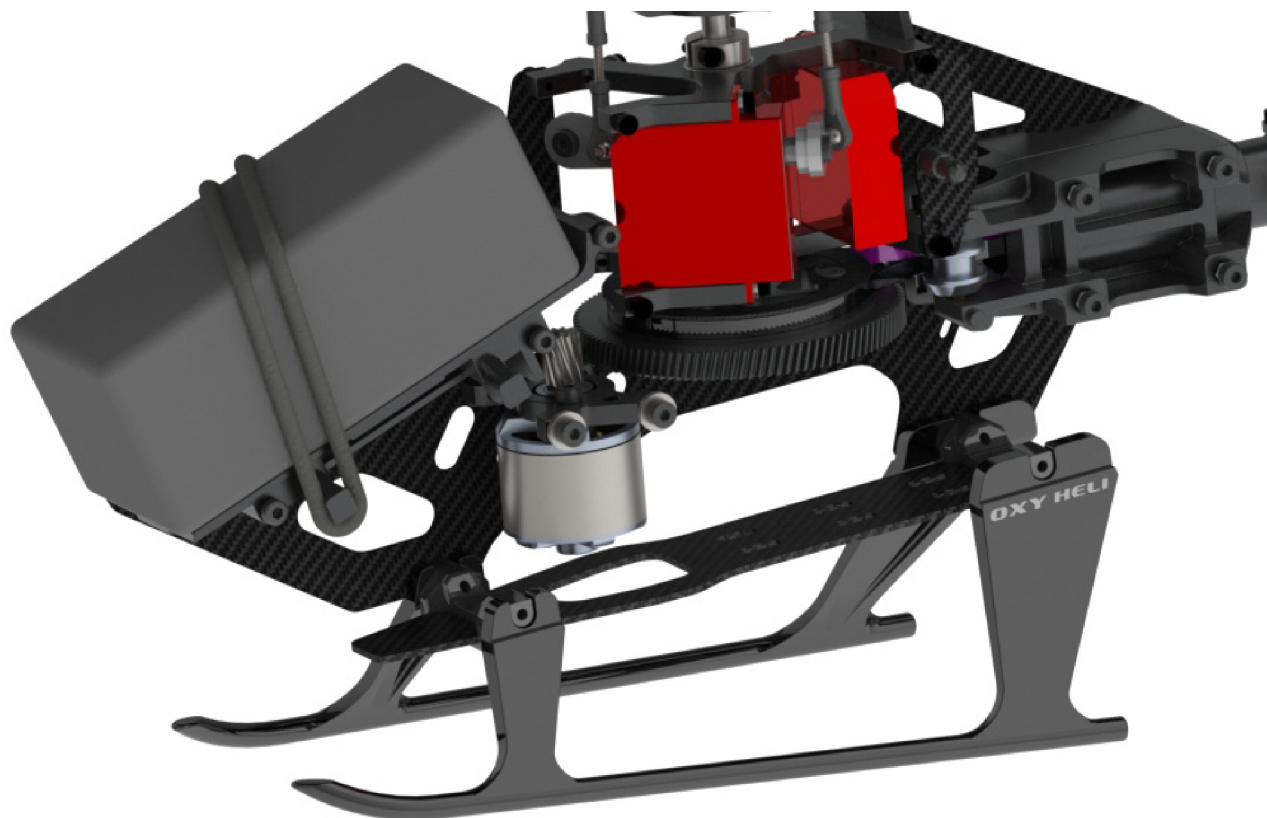


2 x OXY2-DFC Pin Screw
2 x OXY2-2x4X4.4 Bushing

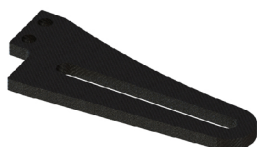
**SP-OXY2-099
Linkage Ball ø 3x6mm, 10Pc**



10 x ø 3x6mm



**SP-OXY2-014 - OXY2 -
Anti Rotation Guide**



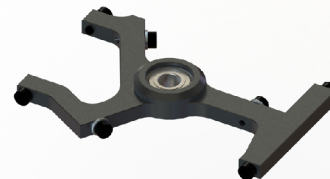
1 x OXY2-Anti Rotation Guide

**SP-OXY2-015 - OXY2 -
Upper Main Shaft Bearing Block**



1 x Upper Main Shaft Bearing Block
9 x M1.6X5 Hex Cap Screw
3 x 1.6x3.5x0.5 Washer
1 x 4X10X4 Radial Bearing

**SP-OXY2-016 - OXY2 -
Lower Main Shaft Bearing Block**



1 x Lower Main Shaft Bearing Block
7 x M1.6X5 Hex Cap Screw
3 x 1.6x3.5x0.5 Washer
1 x 4X10X4 Radial Bearing

**SP-OXY2-017 - OXY2 -
Motor Mount, Set**



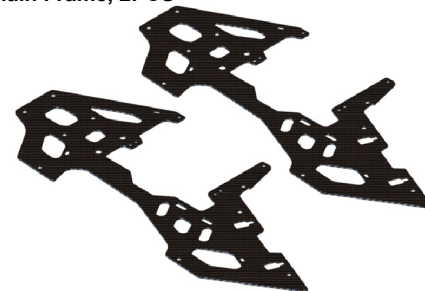
1 x OXY2 - Motor Mount
6 x M2X6 Hex Cap Screw
4 x 2.1X5.5X1 Washer
2 x M2.5x5 Button Screw

**SP-OXY2-116 - OXY2 - 113T
Straight Tooth Main Gear**



1 x Main Gear
1 x CF Main Gear Cover
3 x M2x4 Flat Head Screw
1 x M2X8 Hex Cap Screw

**SP-OXY2-019 -OXY2 -
Main Frame, 2PCS**



2 x OXY2-Main Frame

<p>SP-OXY2-020 - OXY2 - Break Away Canopy , 2PCS</p>  <p>2 x OXY2-Break Away Canopy</p>	<p>SP-OXY2-021 - OXY2 - Canopy Mount</p>  <p>2 x Canopy Mount 2 x M1.6X4 Hex Cap Screw</p>	<p>SP-OXY2-022 - OXY2 - Bottom Plate</p>  <p>1 x OXY2-Bottom Landing Gear 4 x M2X8 Self Tapping Screw</p>
<p>SP-OXY2-023 - OXY2 - Plastic Landing Gear Skid, Left / Right</p>  <p>1 x OXY2-Right Landing Gear, black 1 x OXY2-Left Landing Gear, black</p>	<p>SP-OXY2-069 OXY2 - Battery Tray , Set</p>  <p>1 x OXY2- Battery Tray 6 x M2X6 Self Tapping Screw</p>	<p>SP-OXY2-070 OXY2 - Tail Boom Clamp Mount, set</p>  <p>2 x OXY2-Boom Clamp 4 x Boom Lock Rod 8 x M2X6 Hex Cap Screw</p>
<p>SP-OXY2-026 - OXY2 - CNC Aluminum Belt Pulley Guide, Set</p>  <p>2 x OXY2-Pulley Guide Belt 4 x 2X5X2 Radial Bearing 4 x OXY2 Bell Crank Bushing 2 x 1.6x13.8mm Pin</p>	<p>SP-OXY2-027 - OXY2 - Boom Mount Lock Rod, Set</p>  <p>4 x Boom Lock Rod 8 x M2X6 Hex Cap Screw</p>	<p>SP-OXY2-057 - OXY2 - Main Gear Spacer</p>  <p>1 x OXY2-Main Gear Bushing</p>



**SP-OXY2-029 - OXY2 -
Tail Shaft 15T**



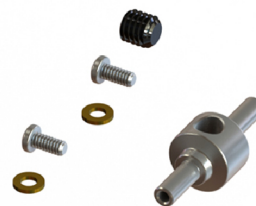
1 x OXY2-Tail Shaft
1 x 15T Tail Pulley
2 x OXY2-Tail Flange Pulley
4 x 2.55x4.5x0.1 Shim

**SP-OXY2-030 - OXY2 -
Tail Shaft 16T**



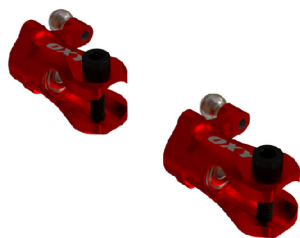
1 x OXY2-Tail Shaft
1 x 16T Tail Pulley
2 x OXY2-Tail Flange Pulley
4 x 2.55x4.5x0.1 Shim

**SP-OXY2-031 - OXY2 -
Tail Rotor Hub, Spare**



1 x OXY2-Tail Hub
2 x M1.4x3 Pan Head Screw
2 x 1.5x2.8H0.4 Washer
1 x Set Screw M3x3

**OSP-1168-OXY2-
Aluminum-Tail-Grip, Red-Set**



2 x OXY2-AL Tail Grip
4 x 2X5X2.3 Radial Bearing
2 x 2x3.5x0.1 Shim
2 x Linkage ball 3x1.5mm
2 x M1.6x8 Hex Cap Screw

**SP-OXY2-033 - OXY2 -
Tail Rotor - Service Bag**



4 x 2X5X2.3 Radial Bearing
2 x 2x3.5x0.1 Shim
2 x Linkage ball 3x1.5mm
2 x M1.6x8 Hex Cap Screw



1 x OXY2-Tail Bell Crank
2 x 2X5X2 Radial Bearing
2 x OXY2-Bell Crank Pin Screw
1 x Linkage ball 3x1.5mm
2 x OXY2 Bell Crank Bushing
1 x M1.6X10 Hex Cap Screw

**SP-OXY2-119 OXY2 190 Sport
Tail Case Side**



1 x AI Tail Case
2 x 2.5X6X2.6 Radial Bearing
1 x 2.55x4.5x0.1 Shim
1 x M1.6X10 Hex Cap Screw
4 x M1.6X5 Hex Cap Screw
1 x Tail Case Rod

**SP-OXY2-036 - OXY2 -
CNC SST Tail Belt Tensioner**



1 x OXY2-Tensioner Bushing
2 x 2X5X2 Radial Bearing
1 x 2x3.5x0.1 Shim
1 x M2X12 Hex Cap Screw

SP-OXY2-131 OXY2 190 Sport - Vertical Fin



1 x OXY2-Vertical Fin
1 x 2x3.5x2.2 Bushing
1 x OXY2-Vertical Fin Bushing
2 x 2.5X6X2.6 Radial Bearing
1 x 2.55x4.5x0.1 Shim
3 x M1.6X5 Hex Cap Screw

**SP-OXY2-120 OXY2 190 Sport
Tail Pitch Slider, 2Pc**



1 x OXY2-Tail Pitch Slider Bushing
1 x OXY2-SST Tail Pitch Slider Ring
2 x 3x7x2 Radial Bearing
1 x OXY2-Tail Pitch Slider Haft Moon
2 x M1.4x4 Pan Head Screw

**SP-OXY2-040 - OXY2 -
Tail Pitch Slider - Service Bag**



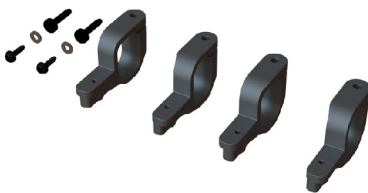
2 x OXY2-Link Control
2 x OXY2-Link Control Bushing
2 x M1.4x4 Pan Head Screw

**SP-OXY2-083
OXY2-FE - Stretch Tail Push Rod**



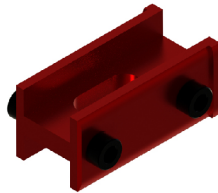
1 x std tail push Carbon Rod
2 x OXY2-Tail Push Rod Terminal
2 x Plastic Linkage Ball 3mm
2 x Threaded Rod M1.4X7mm
1 x Guide Push Rod
2 x M2.5 Pin Screw

**SP-OXY2-121 OXY2 190 Sport
Tail Servo Mount, 2 Set**



2 x CNC Tail Servo Mount
2 x 1.6x3.5x0.5 Washer
4 x M1.6X5 Hex Cap Screw

**SP-OXY2-043 - OXY2 -
Tail Case Hub, Set**



1 x OXY2-Tail Case Center
4 x M1.6X5 Hex Cap Screw

**SP-OXY2-082
OXY2 - Stretch Tail Boom, 2Pcs**



2 x OXY2 std tail Boom

**SP-OXY2-065 - OXY2 -
Tail Bell Crank - Service Bag**



2 x OXY2-Bell Crank Pin Screw
1 x Linkage ball 3x1.5mm
1 x M1.6X10 Hex Cap Screw

**SP-OXY2-084
OXY2 - Stretch Timing Belt**



1 x 305T Timing Belt
1 x Front Boom Insert

**SP-OXY2-012 - OXY2 -
Blade Holder**



1 x OXY2 Blader Holder

**SP-OXY2-028-OXY2 -
Battery Oring , 4PC**



4 x Oring 55W2.5

**SP-OXY2-045 - OXY2 -
190mm Carbon Plastic Main Blade**



2pcs 190mm Carbon Plastic Main Blade

**SP-OXY2-046 - OXY2 -
38mm Tail Blade, Black**



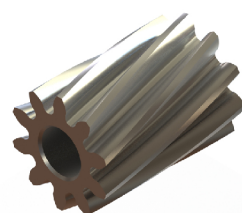
2pcs 38mm Tail Blade, Black

**SP-OXY2-047 - OXY2 -
41mm Tail Blade, Black**



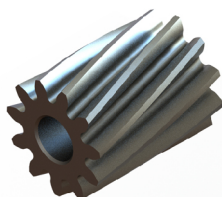
2pcs 41mm Tail Blade, Black

**SP-OXY2-048 - OXY2 -
Pinion 10T - 2mm Motor Shaft**



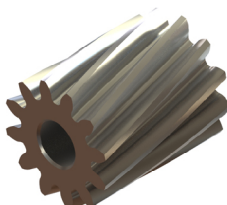
1 x Pinion 10T- M0.4 - 2mm Motor Shaft

**SP-OXY2-049 - OXY2 -
Pinion 11T - 2mm Motor Shaft**



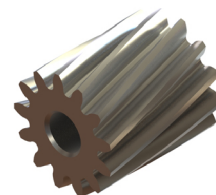
1 x Pinion 11T- M0.4 - 2mm Motor Shaft

**SP-OXY2-050 - OXY2 -
Pinion 12T - 2mm Motor Shaft**



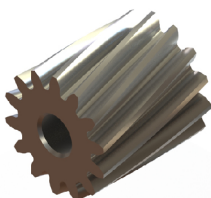
1 x Pinion 12T- M0.4 - 2mm Motor Shaft

**SP-OXY2-051 - OXY2 -
Pinion 13T - 2mm Motor Shaft**



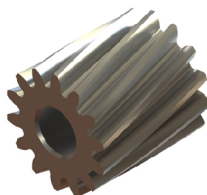
1 x Pinion 13T- M0.4 - 2mm Motor Shaft

**SP-OXY2-052 - OXY2 -
Pinion 14T - 2mm Motor Shaft**



1 x Pinion 14T- M0.4 - 2mm Motor Shaft

**SP-OXY2-053 - OXY2 -
Pinion 14T - 2.5mm Motor Shaft**

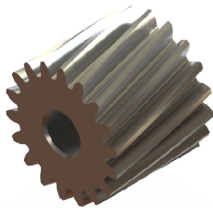




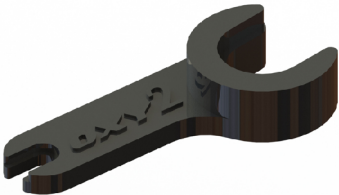


1 x Pinion 14T- M0.4 - 2.5mm Motor Shaft

**SP-OXY2-054 - OXY2 -
Pinion 16T - 2.5mm Motor Shaft**



1 x Pinion 16T- M0.4 - 2.5mm Motor Shaft

<p>SP-OXY2-055 - OXY2 - Pinion 18T - 2.5mm Motor Shaft</p>  <p>1 x Pinion 18T- M0.4 - 2.5mm Motor Shaft</p>	<p>SP-OXY2-059 - OXY2 - Vertical Fin Sticker Yellow</p>  <p>1 x Vertical Fin Sticker yellow</p>	<p>SP-OXY2-060 - OXY2 - Vertical Fin Sticker Orange</p>  <p>1 x Vertical Fin Sticker Orange</p>
<p>SP-OXY2-061 - OXY2 - Vertical Fin Sticker White</p>  <p>1 x Vertical Fin Sticker White</p>	<p>SP-OXY2-062 - OXY2 - Vertical Fin Sticker Green</p>  <p>1 x Vertical Fin Sticker Green</p>	<p>SP-OXY2-063 - OXY2 - Fiber Glass Canopy Schema # 1</p>  <p>1 x Orange Canopy</p>
<p>SP-OXY2-064 - OXY2 - 3D Leveler Tool</p>  <p>1 x Leveler Tool</p>		