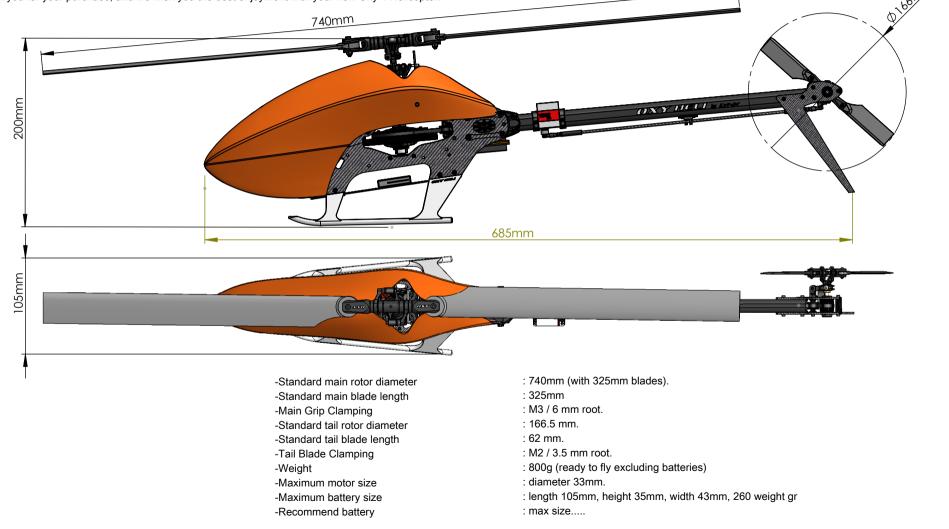




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VERY IMPORTANT NOTE:

- 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.



IMPORTANT NOTE:

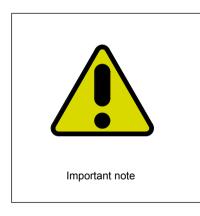
This model helicopter has been designed and produced to be a high performance 3D machine. With its simple design and low parts count, pilots of all skill levels will appreciate its easy repairability. This is not a toy. Please take care assembling the model, and take care and responsibility when you 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.

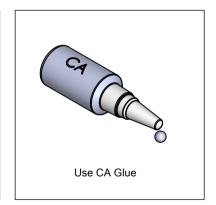
SAFETY GUIDELINES:

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.

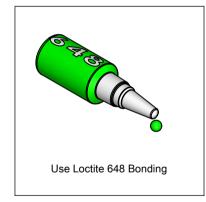
NOTES FOR ASSEMBLY:

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.



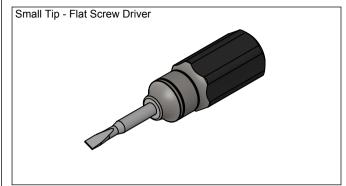


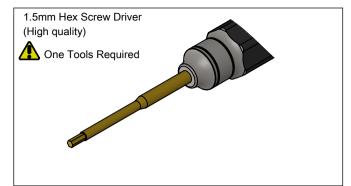


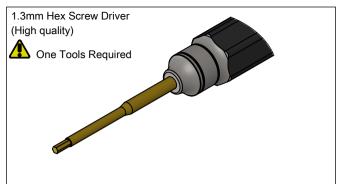


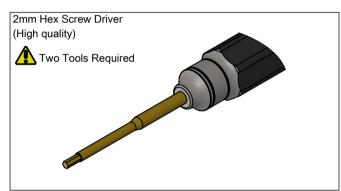


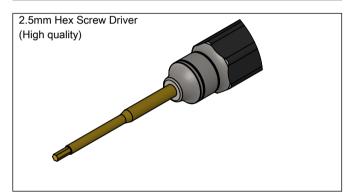
TOOLS REQUIRED

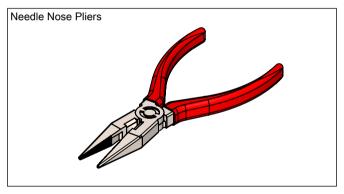


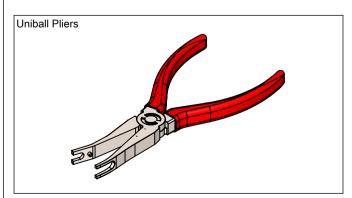


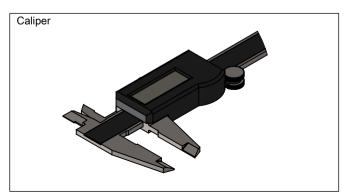




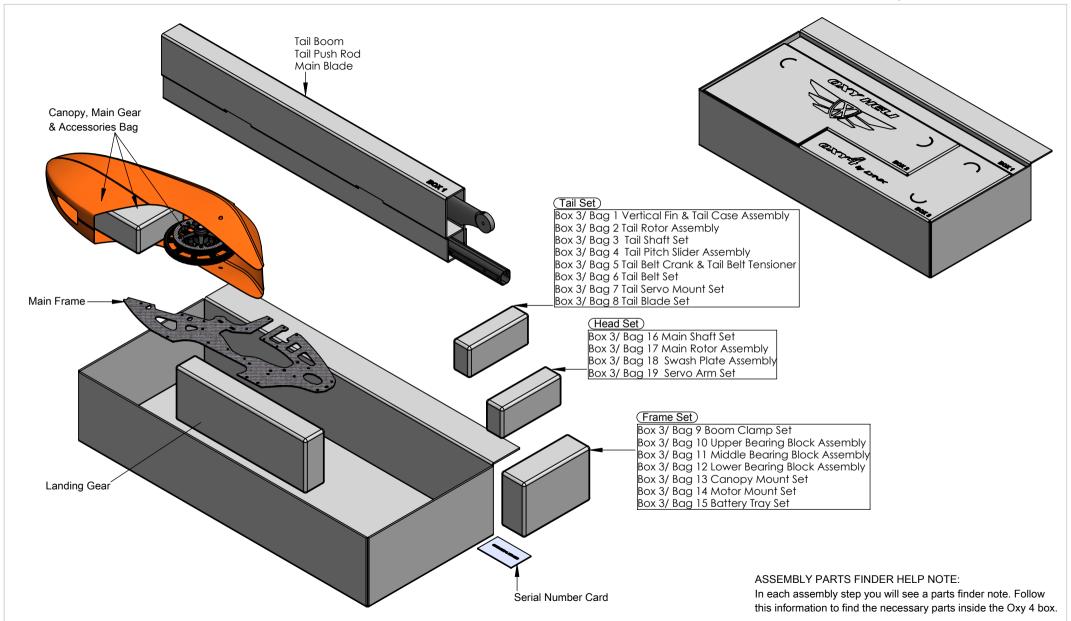








Note:
We recommend high quality steel tools during assembly.
Hex Screw driver in particular must have precise Tip
Hexagonal dimension.



OXY 4 POWER SYSTEM AND HEAD SPEED SET-UP

In order to choose the best setup for your Oxy 4, and optimize performance, it is important to know some basic information:

- 1- Motor Kv Min Max See your motor specification
- 2- Battery Pack (3/4S or 6S)
- 3- Your target head speed

If you use a head speed calculator, use 150T for the main gear and one of the available pinions 14T – 15T – 16T – 17T -18T.

	Fly style	Head speed		Main Blade	Pitch	Tail blade	Tail Shaft Pulley
OXY 4 325mm	Hover	2800	3300	325	+ 10 / -3	68	24
	Fly 2D	2800	3300	325	+ 10 / -5	68	24
	Soft 3D	3000	3500	325	+/- 12	62	24
	Hard 3D	3500	4000	325	+/- 14	62	24
	Extreme 3D	4000	4500	325	+/- 14	62	24

	Fly style	Head speed		Main Blade	Pitch	Tail blade	Tail shaft pulley
OXY 4 350mm 360mm	Hover	2300	2700	350-360	+ 10 / -3	68	23
	Fly 2D	2500	3000	350-360	+ 10 / -5	68	23
	Soft 3D	3000	3300	350-360	+/- 12	68	24
	Hard 3D	3300	3500	350-360	+/- 13	68	24
	Extreme 3D	3700	4000	350-360	+/- 13	68	24

Head Speed Note: Although Oxy 4 can handle very high Head Speed, we suggest not to exceed 4500 RPM to maintain a good compromise between performances and efficiency. Configuration examples Since the Oxy4 is a high performance 3D RC

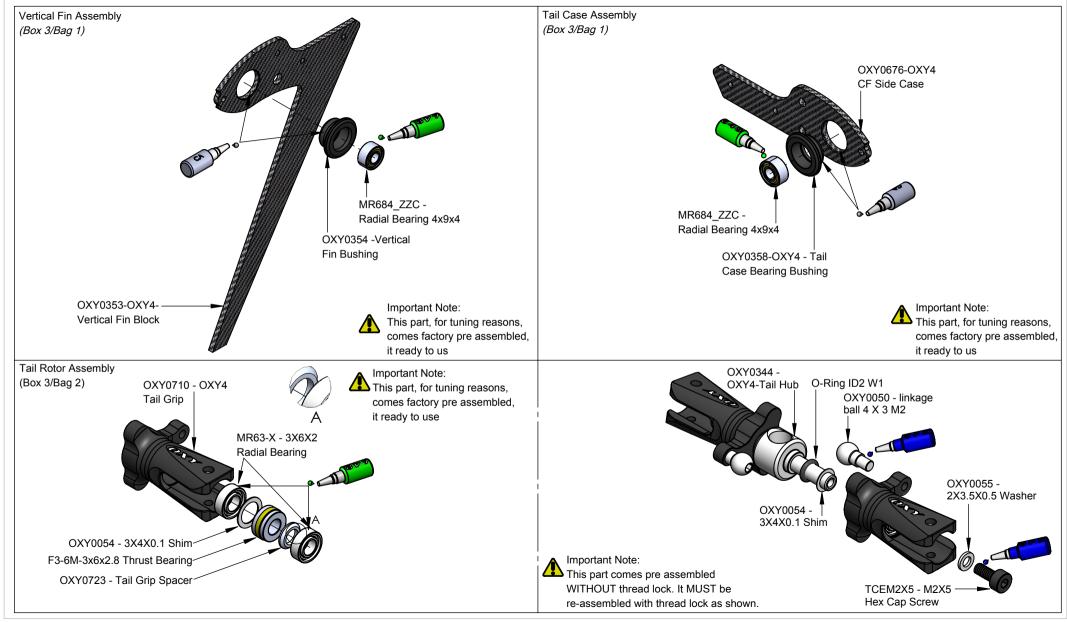
helicopter, we suggest using high quality power components including motor, battery and ESC. Remember the Oxy 4 is a 450 class heli – use light components to maximize flight time and performance. Here are some suggestions:

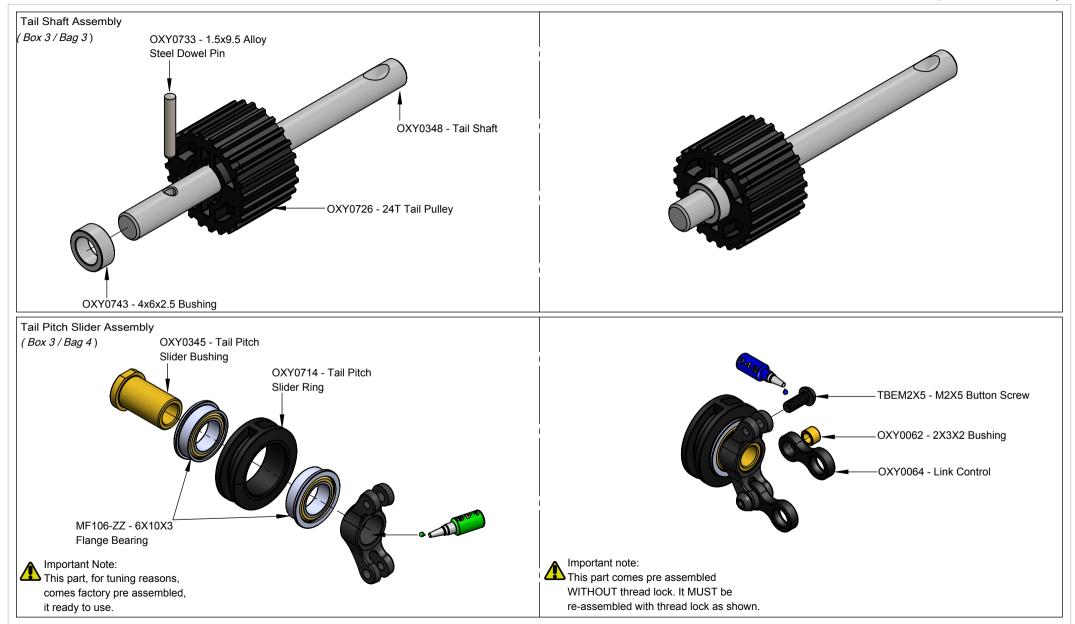
- Motor: Suggested 3SKV: 3500 to 4000 or 6SKV: 1500 to 1900, 2216 to 2620 caliber series (stator diameter stator length).
- Battery: 3S or 6S with capacity 3s to max 2250 (estimate) 6s to max 1800

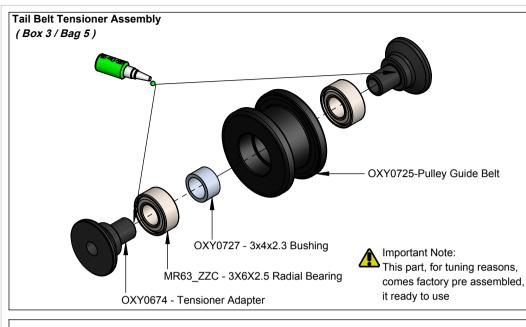
(1800 max best suited for stretched Oxy 4) 45C discharge rate. Maximum size: length 110mm, height 34mm, width 43.5mm, weight 250g.

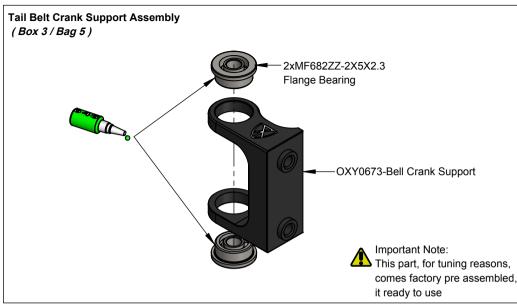
- ESC: 50 to 60A with BEC V or higher.
- Cyclic servos: Standard MICRO size servo speed: =>0.06 sec/60 at 6V.
- Rudder servo: Standard MICRO or MINI size servo speed =>0.06 sec/60 at 6V a specific rudder servo is suggested for best tail authority.
- FBL system: The Oxy 4 was designed around the U-lkon / 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 33mm.
- Main blade: The Oxy 4 can fly with main blades from 320 to 360mm. Our testing was with Zeal 325mm and Zeal 360 Carbon main blade. The Oxy 4 main grips use M3 clamp screw and have a 6 mm root.
- Tail blades: The Oxy 4 uses our own OEM tail blades, either 62 or 68mm (included with the kit). They use a M2 clamp screw and 3.5 root.

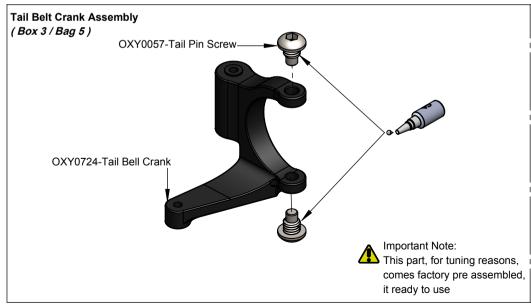
We offer 62 and 68mm tail blades to suit different head speeds. See table above for suggested tail balde size based on rpm.



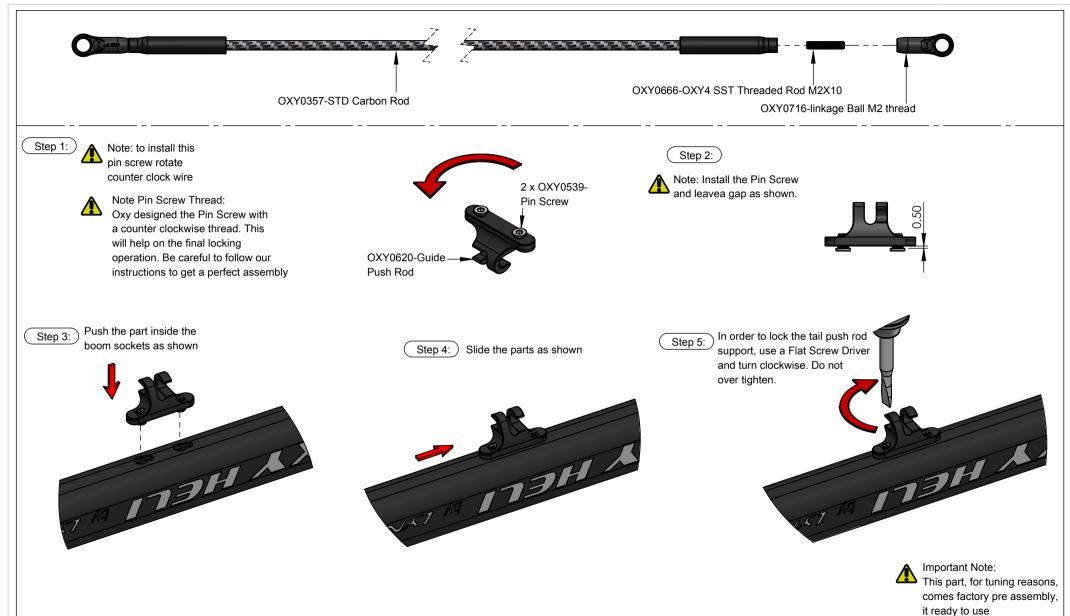


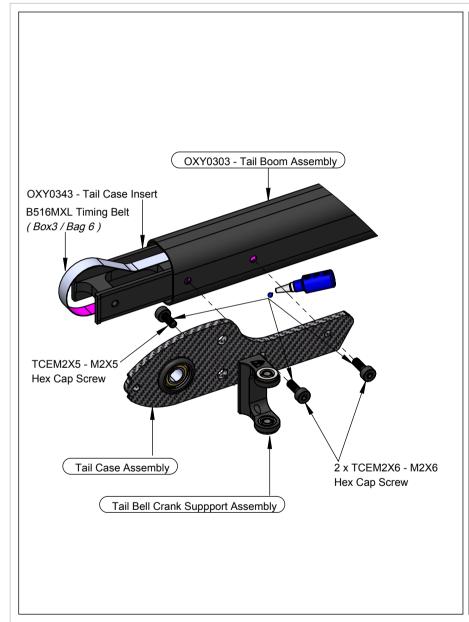


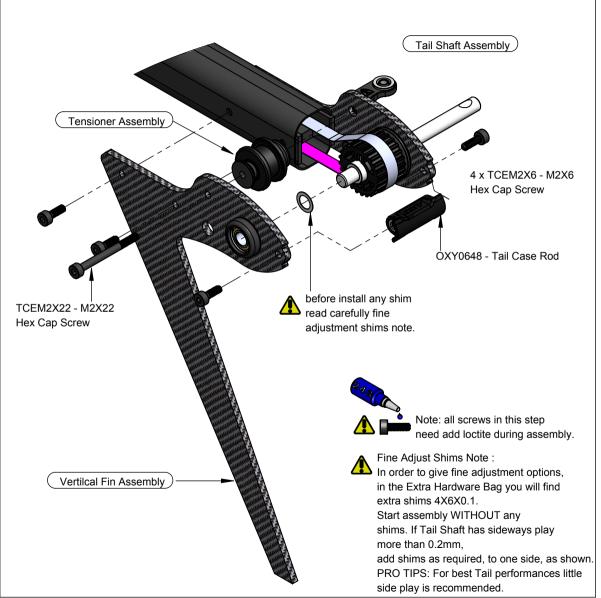


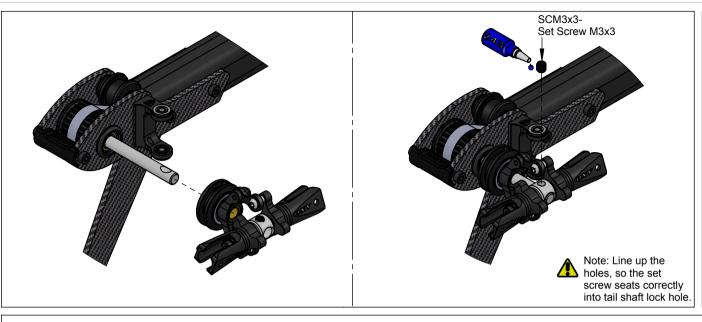


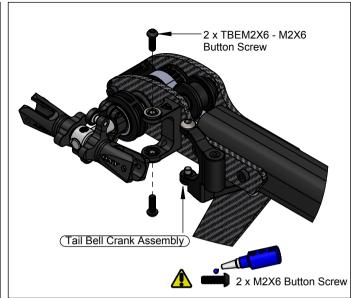




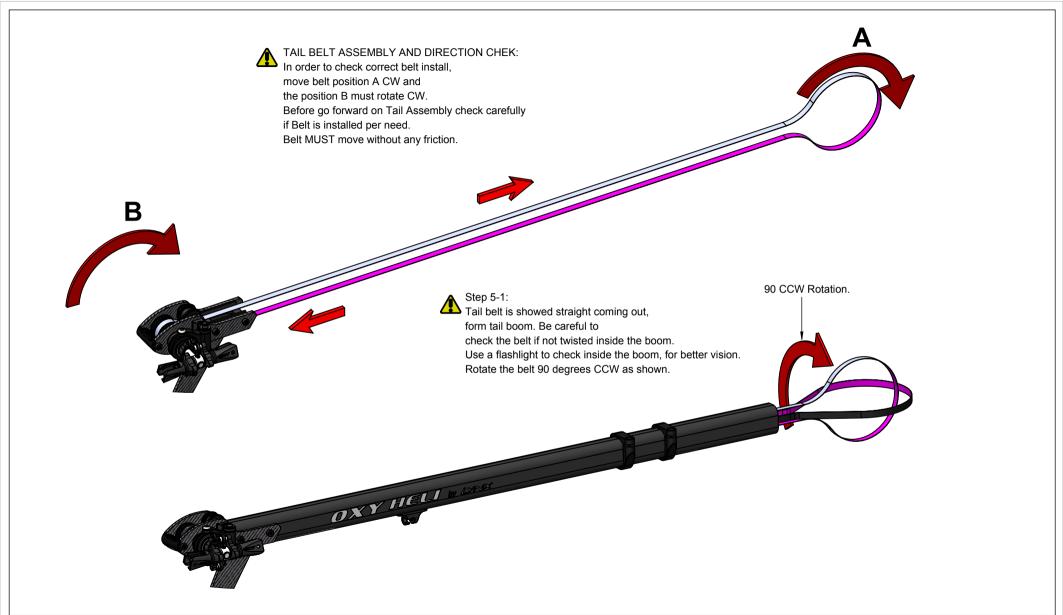


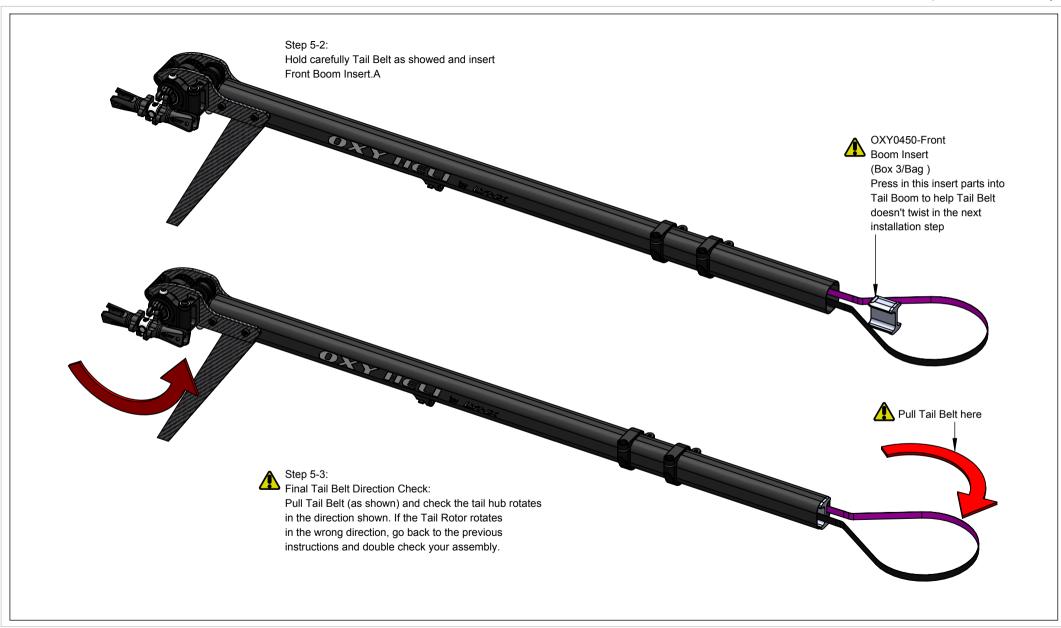


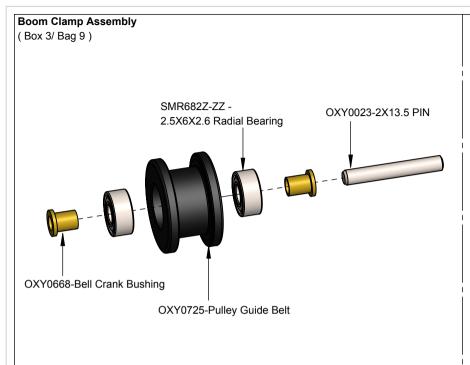


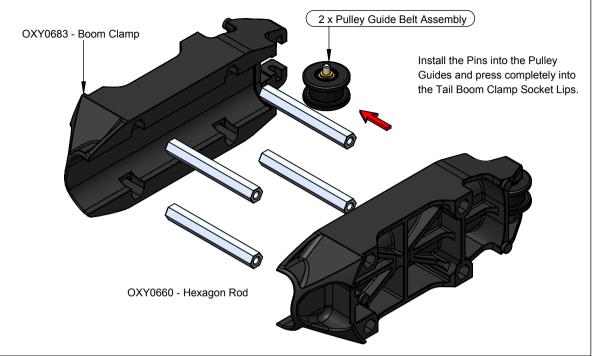


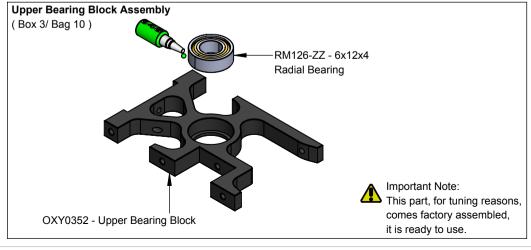


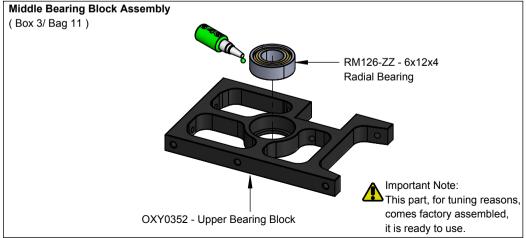


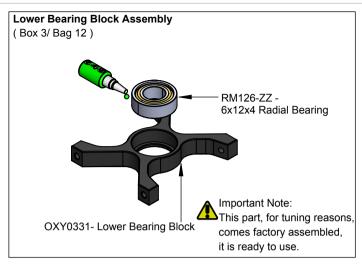


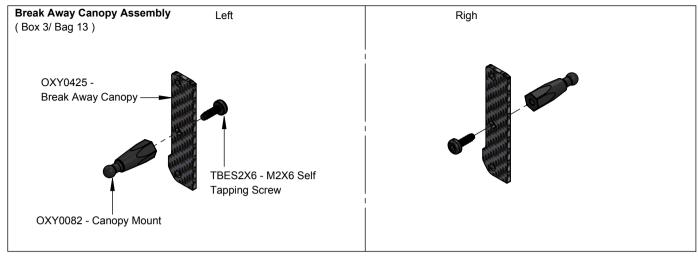


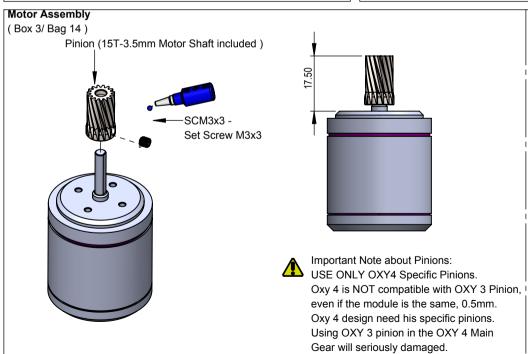


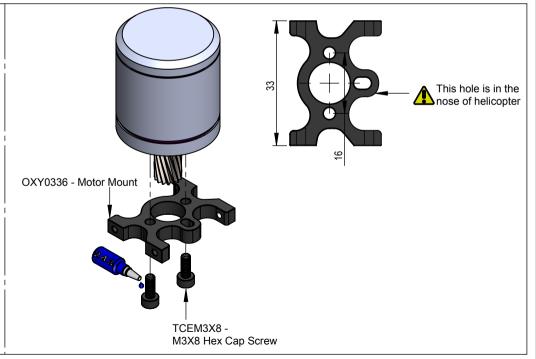


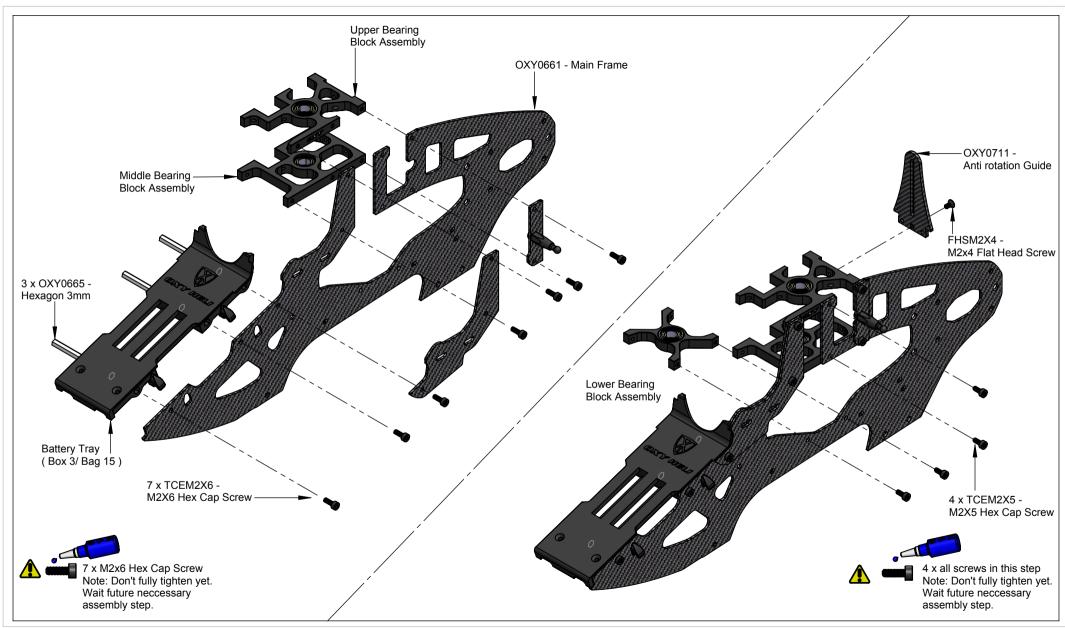


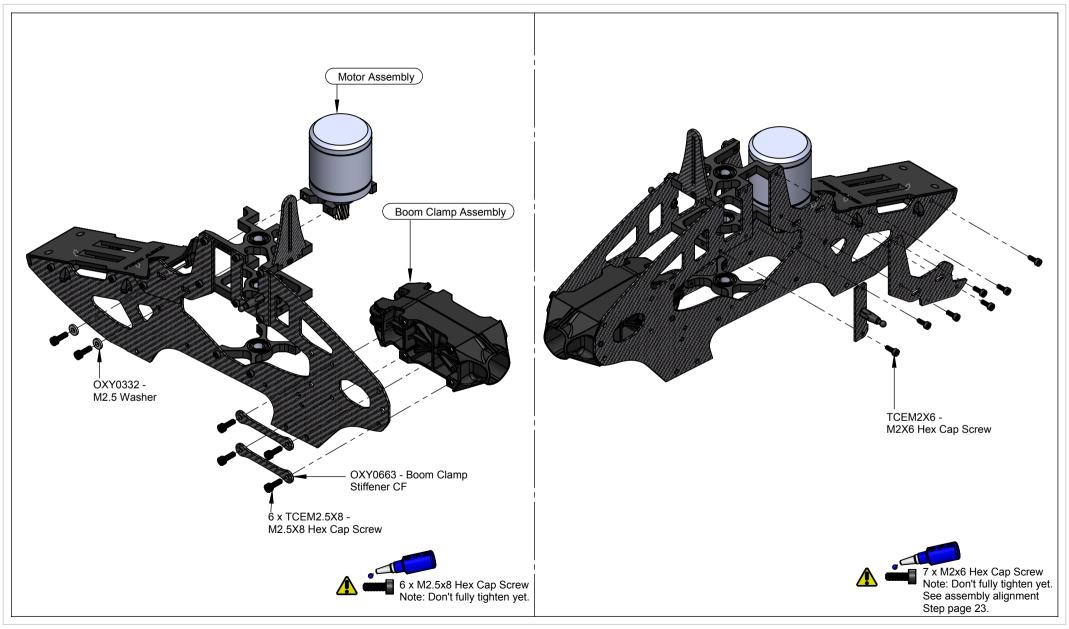


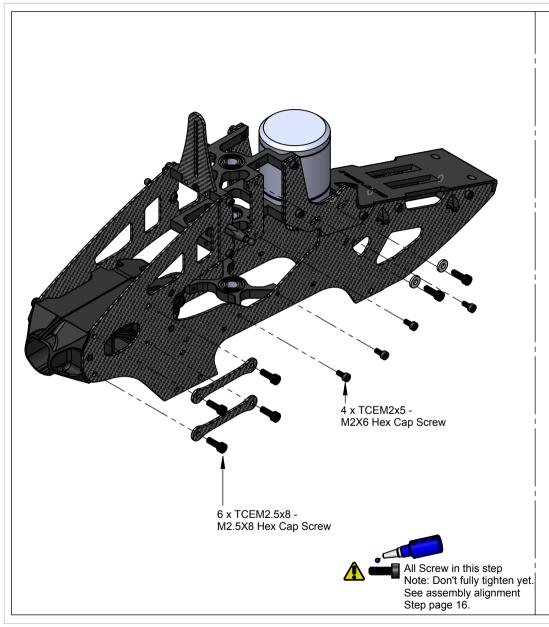






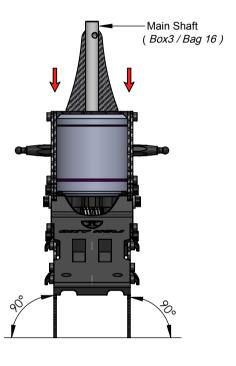


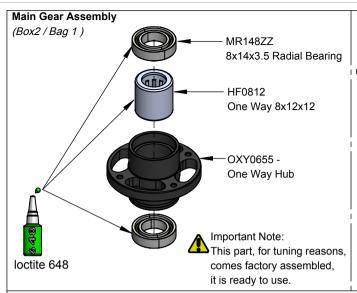


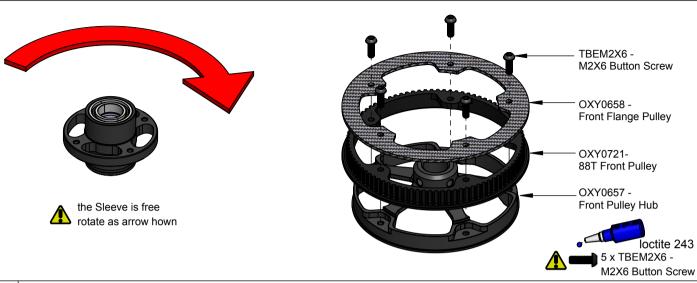


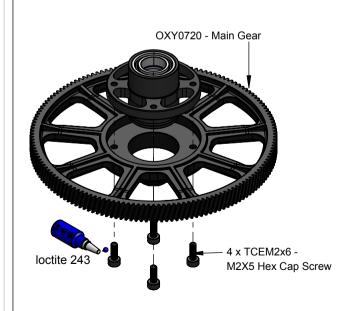


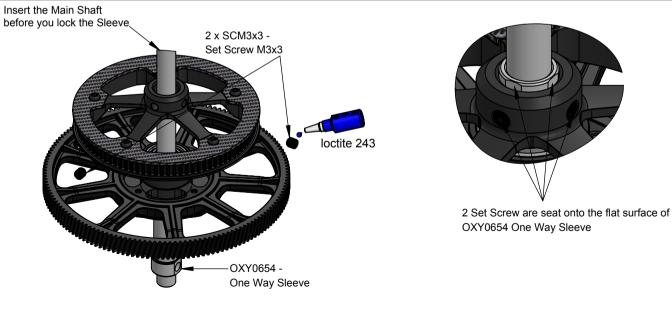
Install main shaft with frame assembly on a flat surface, push down on both frames together and then fully tighten all M2 Hex Cap Screws (x22) holding the bearing blocks.

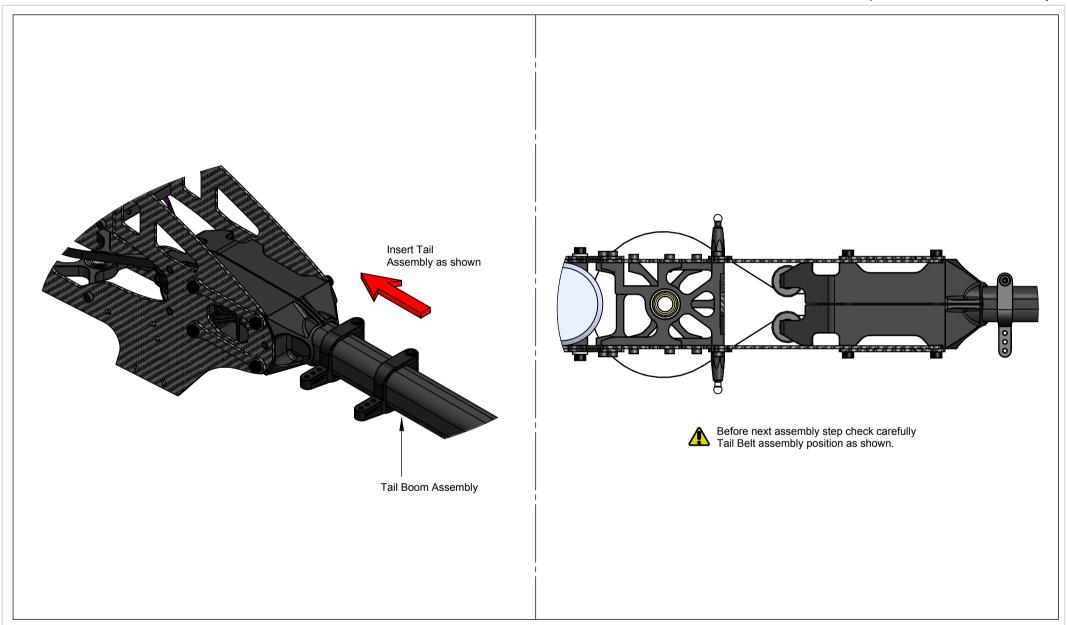


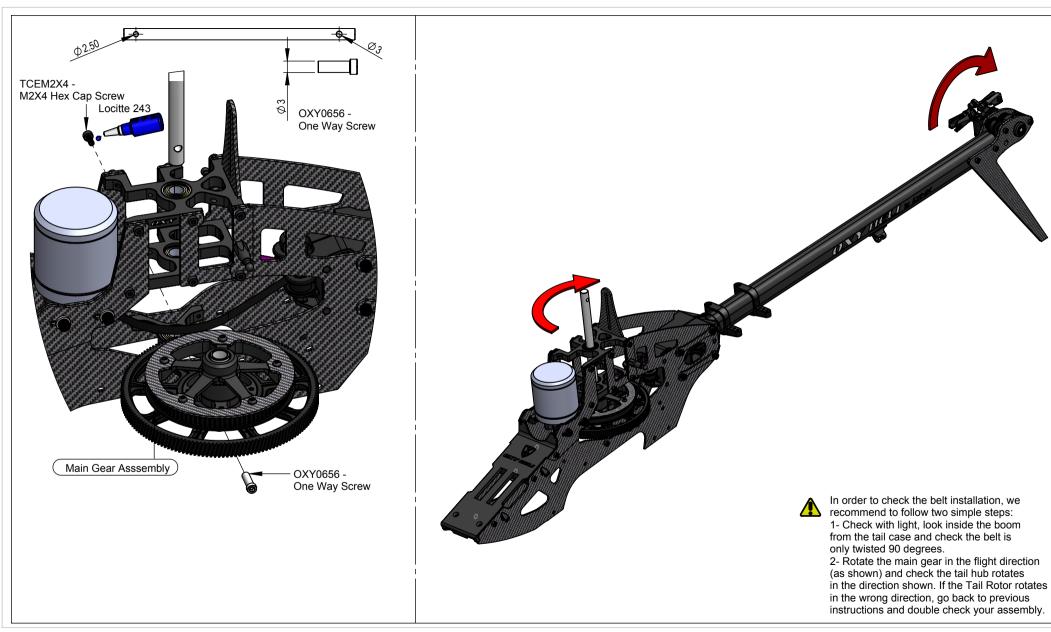


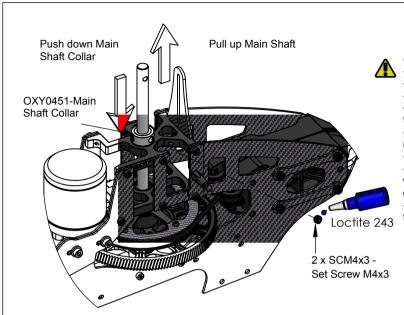




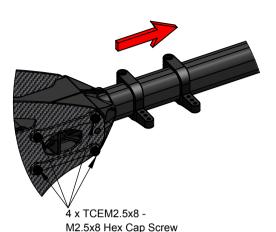


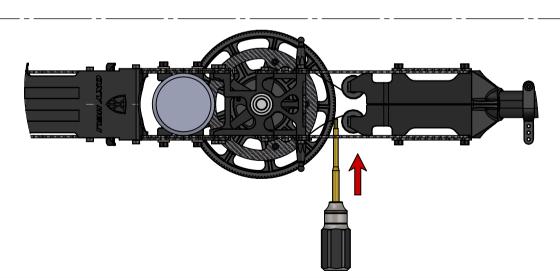






- Be sure the boom is assembled and installed correctly.
- Loosen the tail boom by loosening the eight M2.5x8 Hex Cap Screws.
- Adjust the Belt tension by pulling on the Tail Boom.
- Tighten the eight M2.5x8 Hex Cap Screws.
- The belt must have good tension. We suggest re-checking after a few flights.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

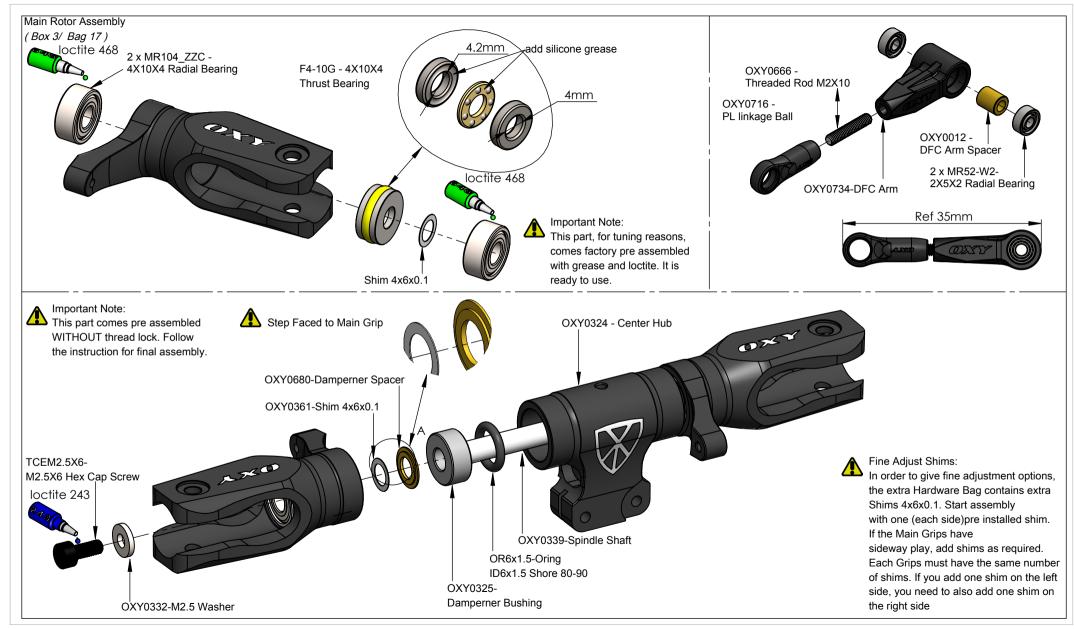


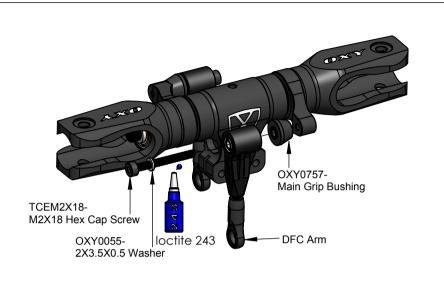




Use a Screw Driver to check Belt Tension (suggested max deflection is 1mm)

- 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".







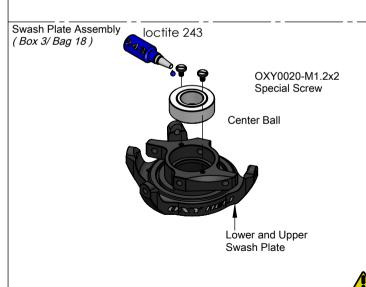


Important Note:

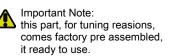
This part comes pre assembled WITHOUT thread lock. Follow the instruction for final assembly

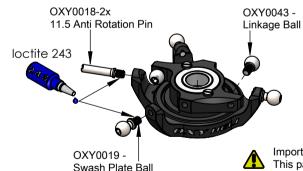


Once you finish assembly, ensure the DFC Arms can rotate without friction. If the DFC Arms are assembled correctly, rotation should be smooth and without friction. In case of any friction, recheck each component and re-assembly as necessary.



page 25





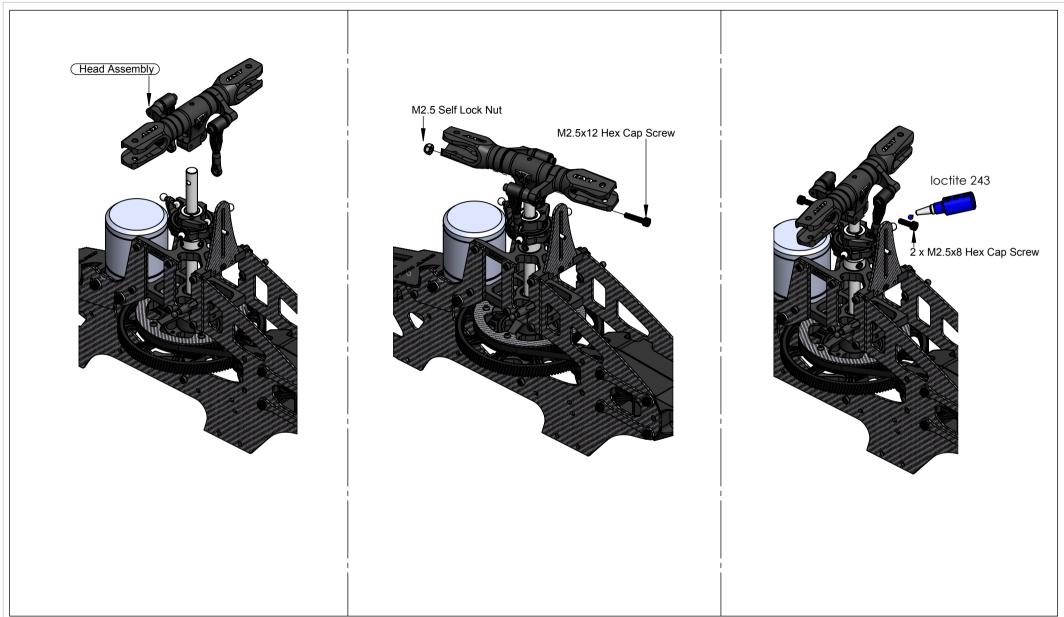
Important Note:

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

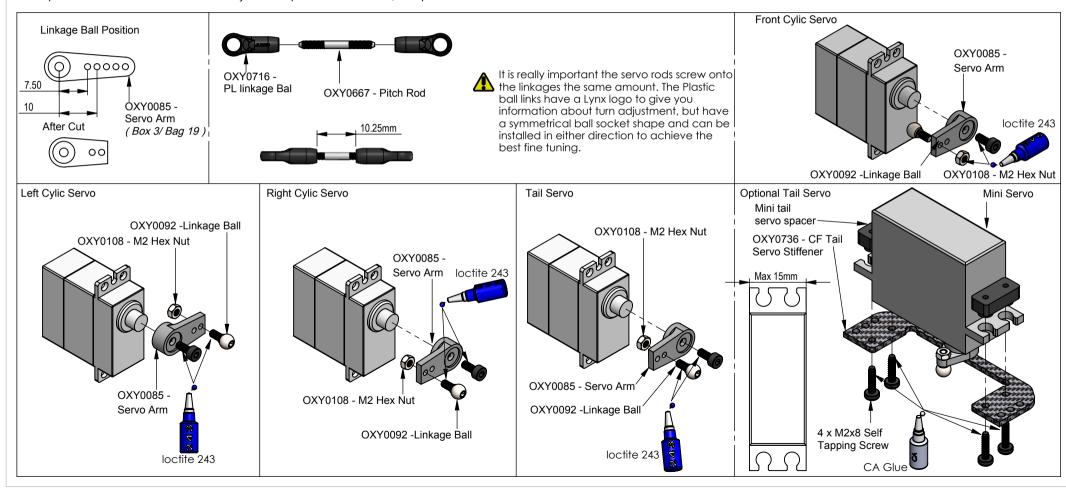


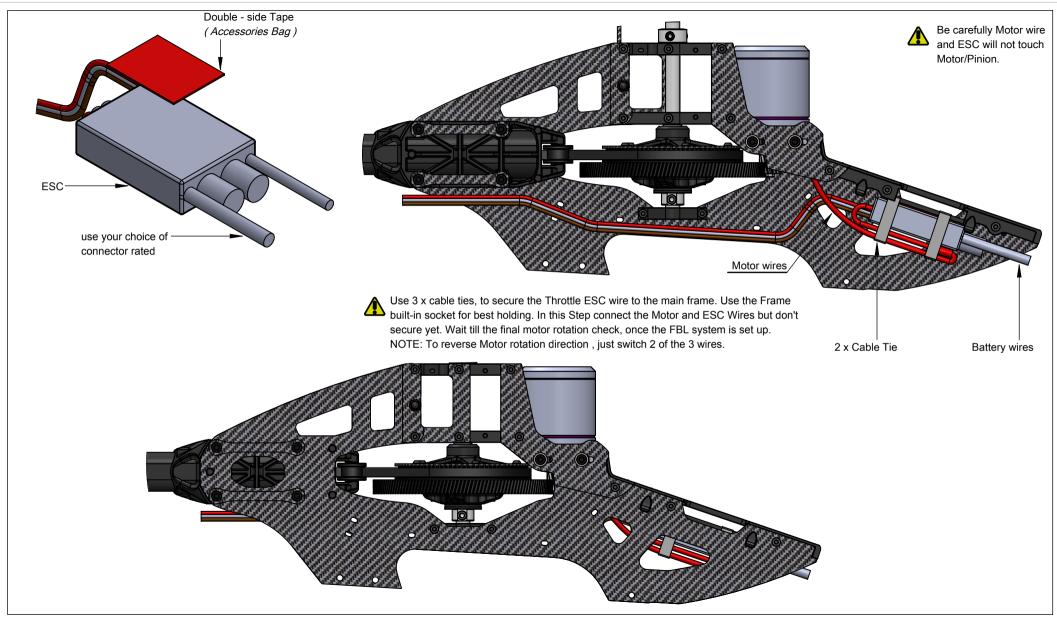
Swivel Ball Note:

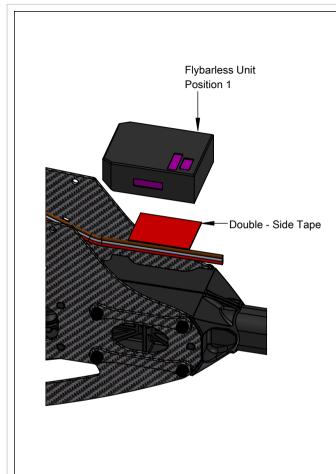
The Swivel Ball is pre-assembled with a precise fitting. When new, the Swash Plate center ball will have a little friction. After a few flights and "break-in" it will come smooth, keeping the best precision without play.



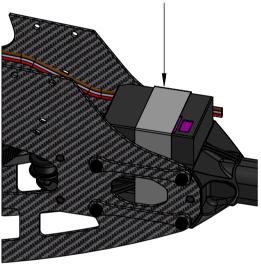
- You should now do some initial setup of your FBL unit and servos.
- We recommend you select a new model in your transmitter, and reset your FBL unit and start with a clean setup in it as well.
- After binding your transmitter to the receiver system used with the FBL unit, work your way through the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



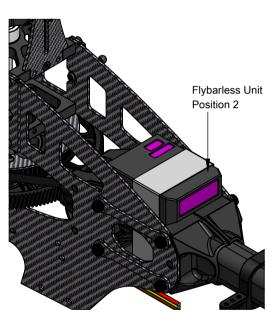


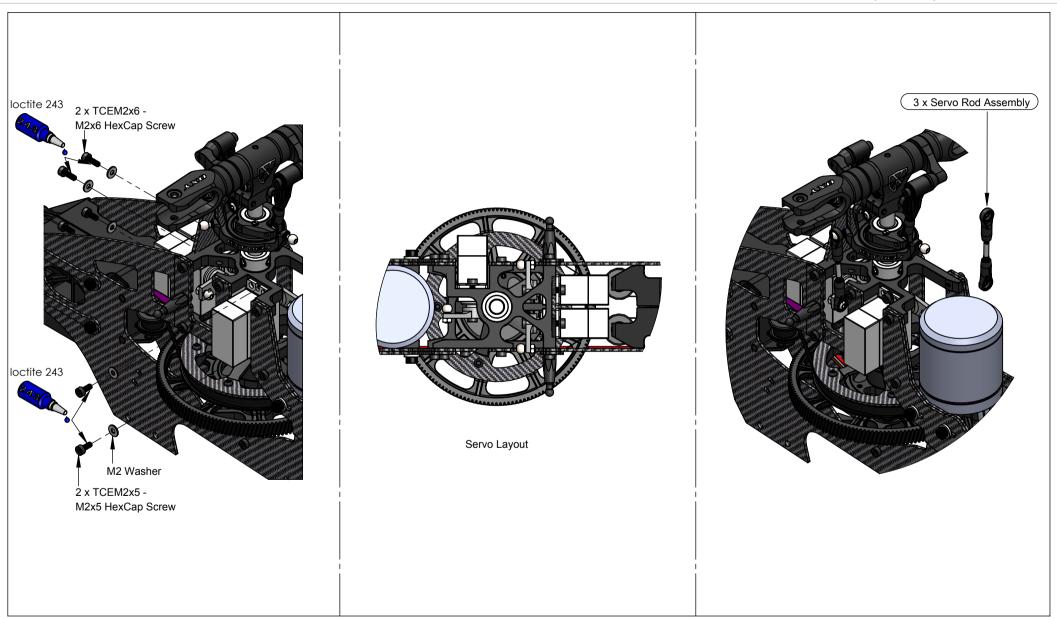


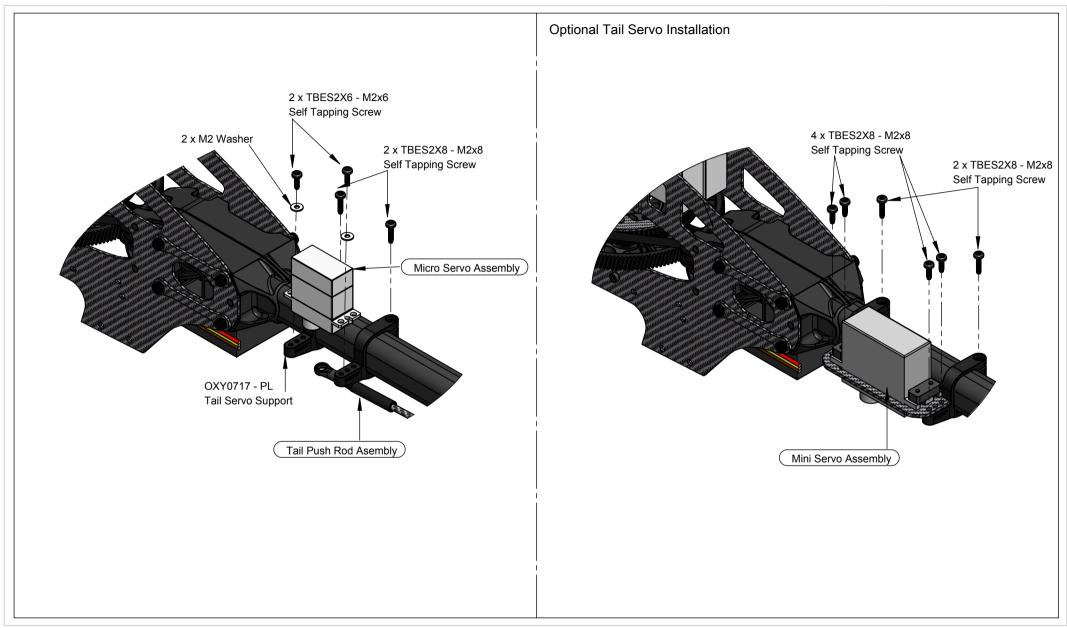
For extra FBL support we suggest to add Electronic Hook and Loop as shown.

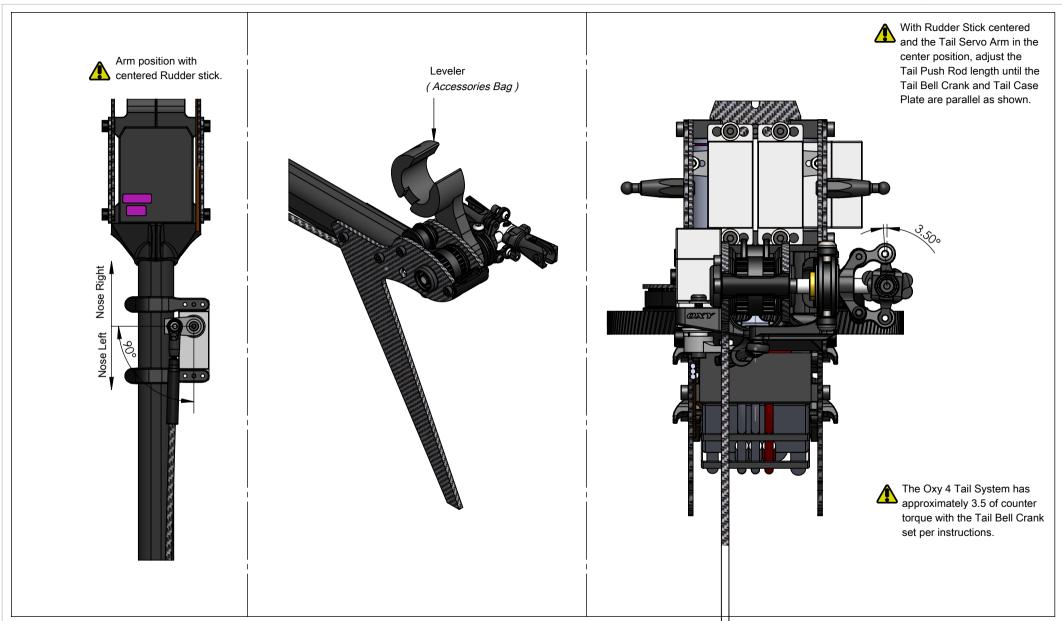


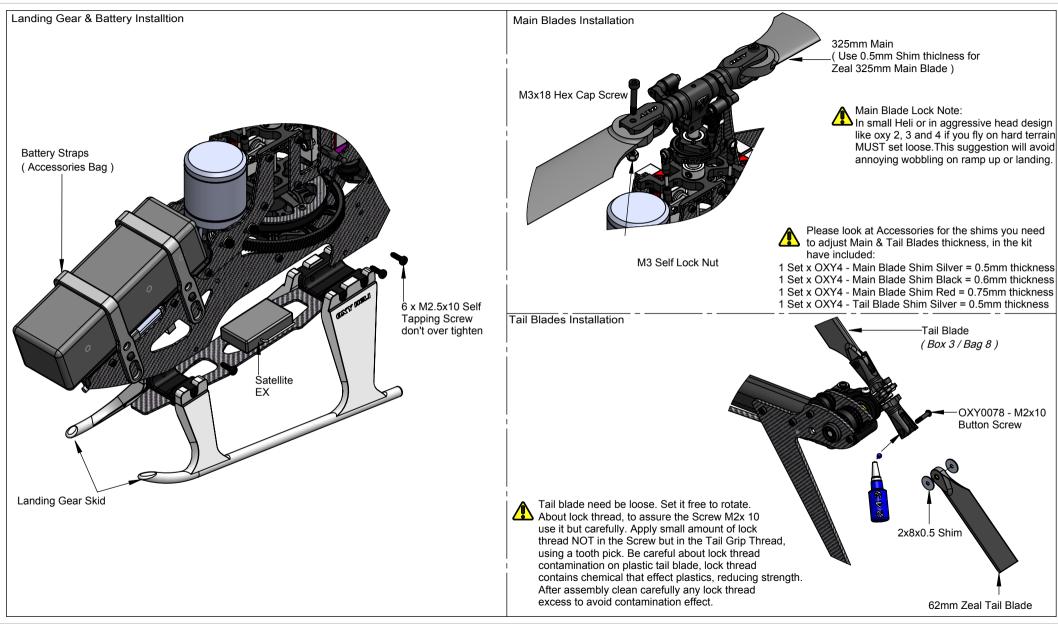
The FBL system can be installed at the bottom or top of the boom clamp. We suggest to use the bottom for easy wiring and servo removal.











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.

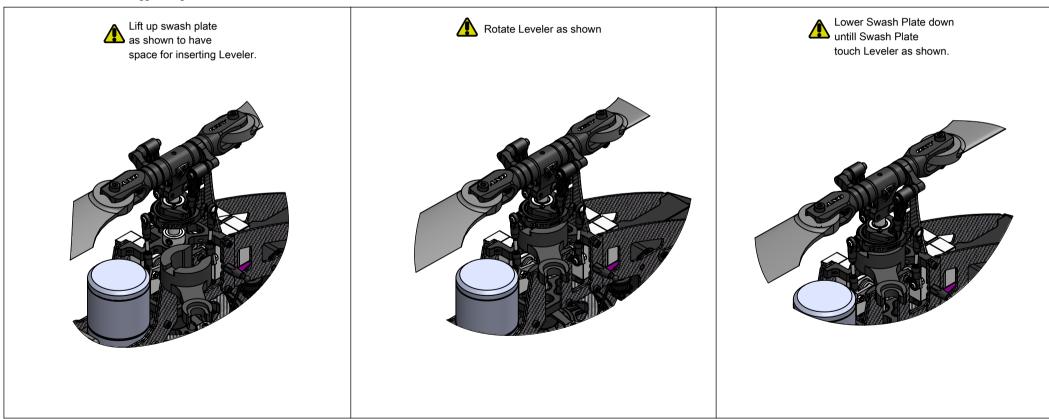
See our table on page 6 for RPM and Pitch Settings. Cyclic Max pitch should be +/- 10.5 deg.

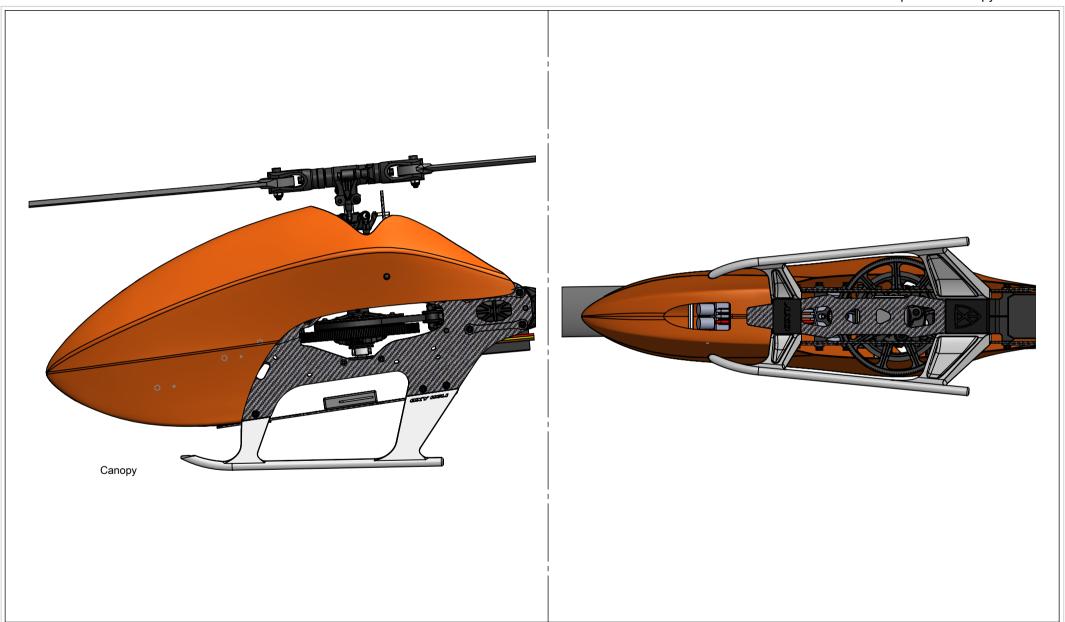
Tail Set Up:

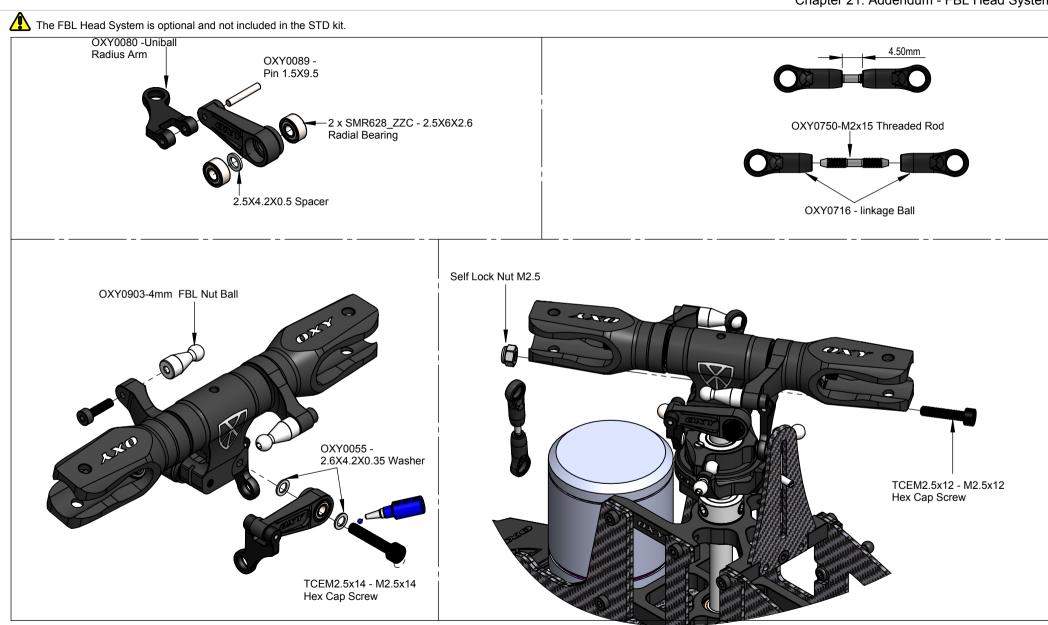
Use the suggested settings for 450 Helicopters BUT start with a LOWER Tail Gain (Increase after test per need)

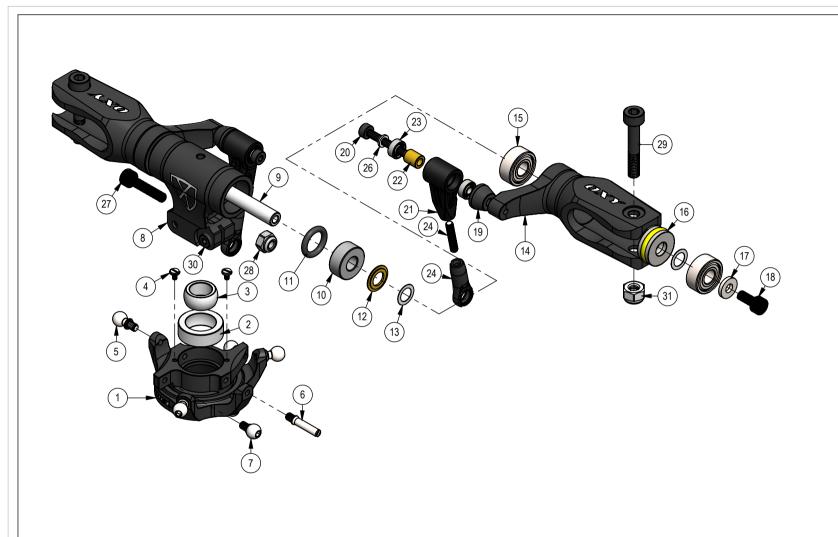
IKON / Brain = 20%

Mini V-Bar = 250 Heli suggested gain.



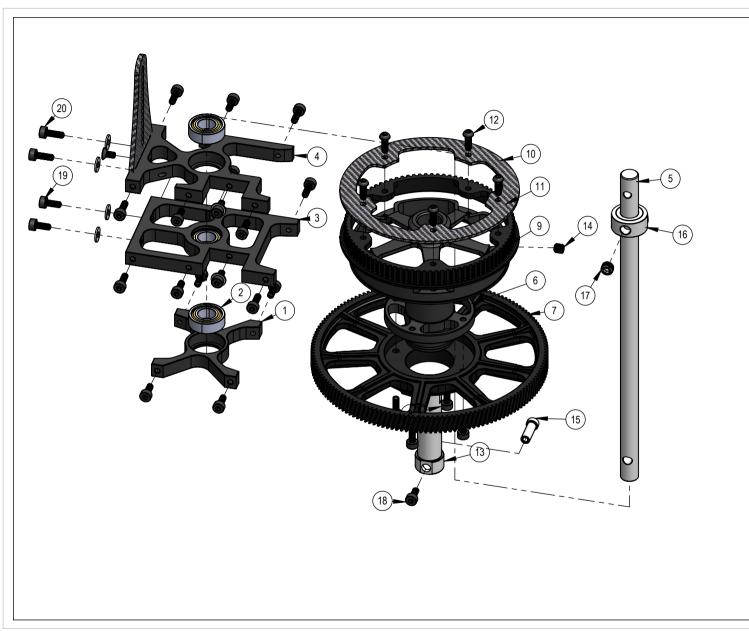






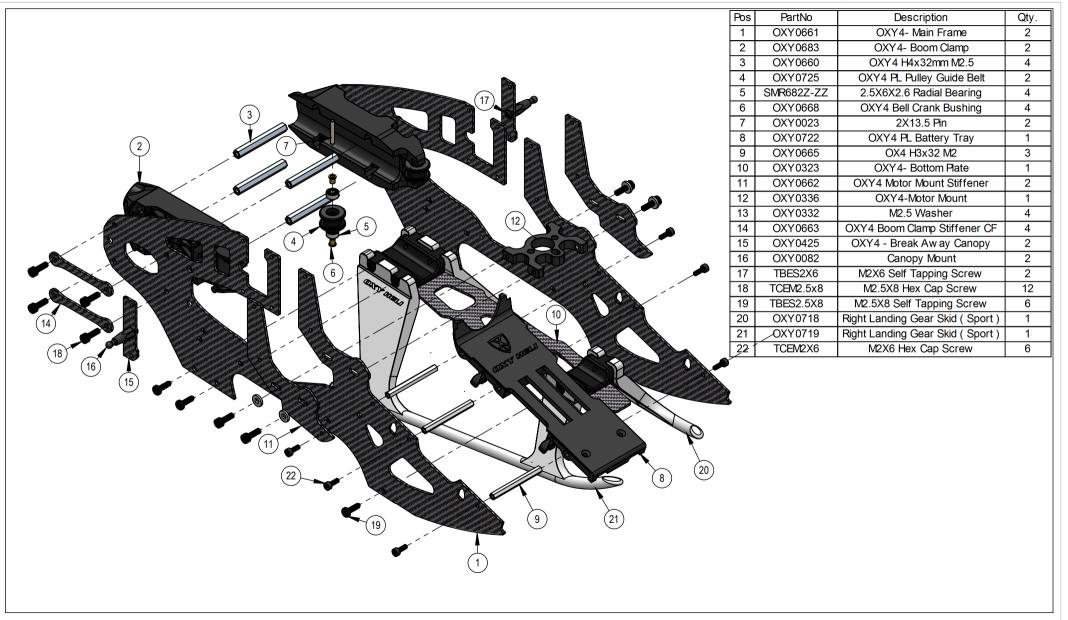
Pos	PartNo	Description		
1	OXY 0696	OXY4 Lower Swash Plate	1	
2	OXY0694	OXY4 Ball Holder	1	
3	OXY 0695	OXY4 Center Ball	1	
4	OXY 0020	M1.2x2 Special Screw	2	
5	OXY0019	M2 Wash Plate Ball	3	
6	OXY0018	2x11.5 Anti Rotation Pin	1	
7	OXY0043	4X2 Linkage Ball	2	
8	OXY0324	Center Hub	1	
9	OXY 0339	OXY4-Spindle Shaft	1	
10	OXY 0325	OXY4-Damperner Bushing	2	
11	OR6x1.5	Oring ID6x1.5 Shore 80-90	2	
12	OXY 0680	OXY4-Damperner Spacer	2	
13	OXY 0361	Shim 4x6x0.1	4	
14	OXY 0333	OXY4-Main Grip	2	
15	MR104_ZZC	4X10X4 RADIAL BEARING		
16	F4-10G	4X10X4 Thrust Bearing		
17	OXY0332	M2.5 Washer		
18	TCEM2.5X6	M2.5X6 Hex Cap Screw		
19	OXY 0757	OXY4 - Main Grip Bushing - Black	2	
20	TCEM2X18	M2X18 Hex Cap Screw		
21	OXY0734	OXY4-DFC Arm	2	
22	OXY0012	DFC Arm Spacer	2	
23	MR52-W2	2X5X2 Radial Bearing	4	
24	OXY0716	4mm PL linkage Ball M2 thread		
25	OXY 0666	OXY4 SST Threaded Rod M2X10		
26	OXY 0055	2X3.5X0.5 Washer	2	
27	TCEM2.5X12	M2.5x12 Hex Cap Screw	1	
28	SLNM2.5	M2.5 Self Lock Nut	1	
29	TCEM3X18	M3X18 Hex Cap Screw Shouldered	2	
30	TCEM2X6	M2X6 Hex Cap Screw	2	
31	SLNM3	M3 Self Lock Nut	2	

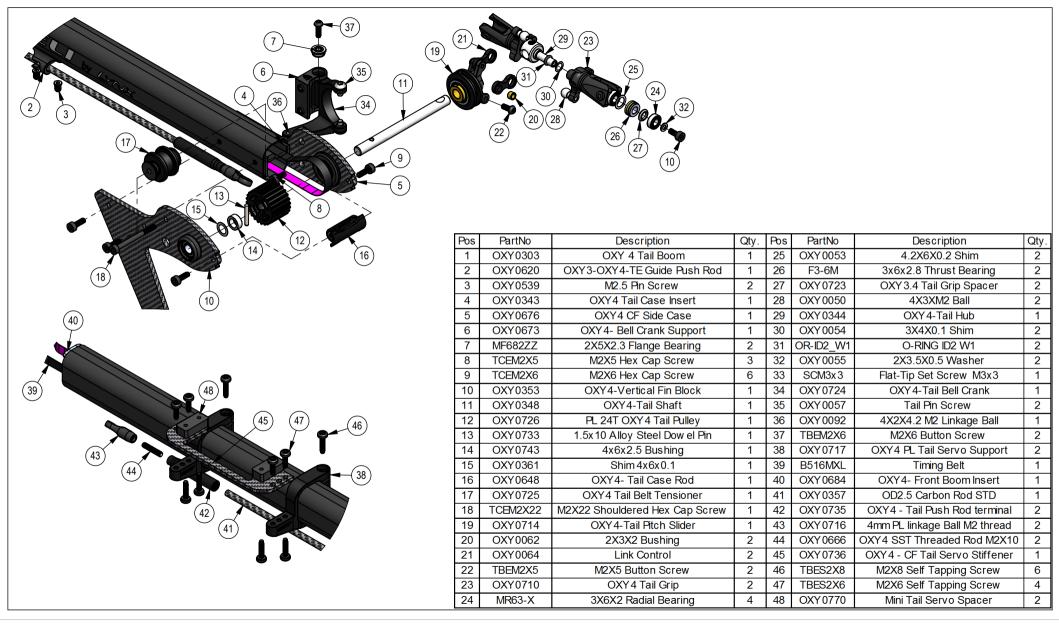
Chapter 22: Exploded View, Main Frame



Pos	PartNo	Description	Qty.
1	OXY0331	Low er Bearing Block	1
2	RM126-ZZ	6x12x4 Radial Bearing	3
3	OXY0335	Middle Bearing Block	1
4	OXY0352	Upper Bearing Block	1
5	OXY0203	OXY4-Main Shaft	1
6	OXY 0655	OXY4-One Way Hub	1
7	OXY0720	OXY4 Injection Main Gear	1
8	TCEM2X6	M2X6 Hex Cap Screw	4
9	OXY0657	OXY4- Front Pulley Hub	1
10	OXY0658	OXY4- Front Flange Pulley	1
11	OXY0721	OXY4 88T Front Pulley	1
12	TBEM2X6	M2X6 Button Screw	5
13	OXY0654	OXY4 One Way Sleeve	1
14	SCM3x3	Flat-Tip Set Screw M3x3	2
15	OXY0656	OXY4 One Way Screw	1
16	OXY0334	OXY4 Main Shaft Lock Ring	1
17	SCM4X3	M4x3 Flat-Tip Set Screw	2
18	TCEM2X4	M2X4 Hex Cap Screw	1
19	TCEM2X5	M2X5 Hex Cap Screw	8
20	TCEM2X6	M2X6 Hex Cap Screw	10

Chapter 22: Exploded View, Main Frame







OSP - 1002 OXY4 - Center Hub



1 x Center Hub 1 x M2.5x12 Hex Cap Screw 2 x M2X6 Hex Cap Screw 1 x M2.5 Self Lock Nu

OSP - 1010 OXY4 - Carbon Steel Spindle Shaft



1 x OXY4-Spindle Shaft 2 x M2.5 Washer 2 x M2.5X6 Hex Cap Screw

OSP - 1005 OXY4 - Swashplate, Set





2 x Main Grip Assembly 2 x M3X18 Shouldered Hex Cap Screw 2 x M3 Self Lock Nut

OSP - 1011 OXY4 - Dampeners, 2 Set



4 x OXY4-Damperner Bushing

4 x Oring ID6x1.5

4 x OXY4-Damperner Spacer

4 x Shim 4x6x0.1

OSP - 1006 OXY4 - Swashplate - Service Bag



1 x OXY4 Ball Holder

1 x OXY4 Center Ball

2 x M1.2x2 Special Screw

1 x 2x11.5 Anti Rotation Pin

3 x M2 Wash Plate Ball

4x Linkage Ball

OSP - 1004

OXY4 - Main Grip Service Bag



2 x 4X10X4 Thrust Bearing 4 x 4X10X4 RadialL Bearing

2 x Shim 4x6x0.1

OSP - 1058 OXY4 - DFC set



2 x DFC Assembly

OSP-1009 OXY4 - Carbon Steel Main Shaft



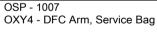
1 x OXY4-Main Shaft

1 x OXY4 Main Shaft Lock Ring

1 x M4x3 Flat-Tip Set Screw

1 x M2.5 Self Lock Nut

1 x M2.5x12 Hex Cap Screw





4 x OXY4-DFC Arm

OSP - 1057

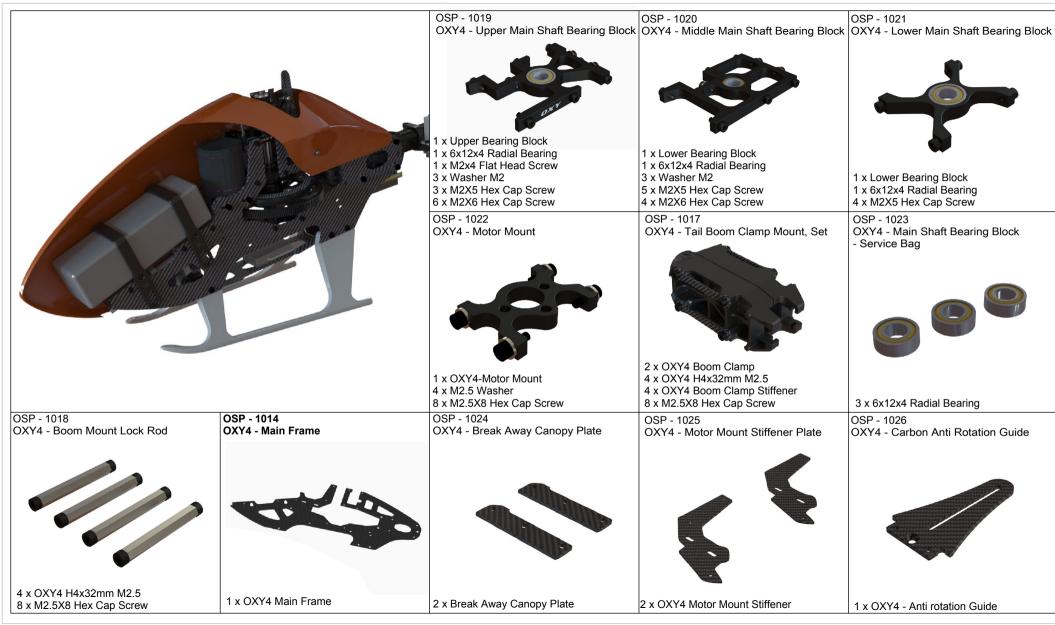
OXY4 - DFC Arm -Spacer Set, 4Pcs



4 x M2X18 Hex Cap Screw 4 x 2X3.5X0.5 Washer

4 x OXY4 - Main Grip Bushing - Black

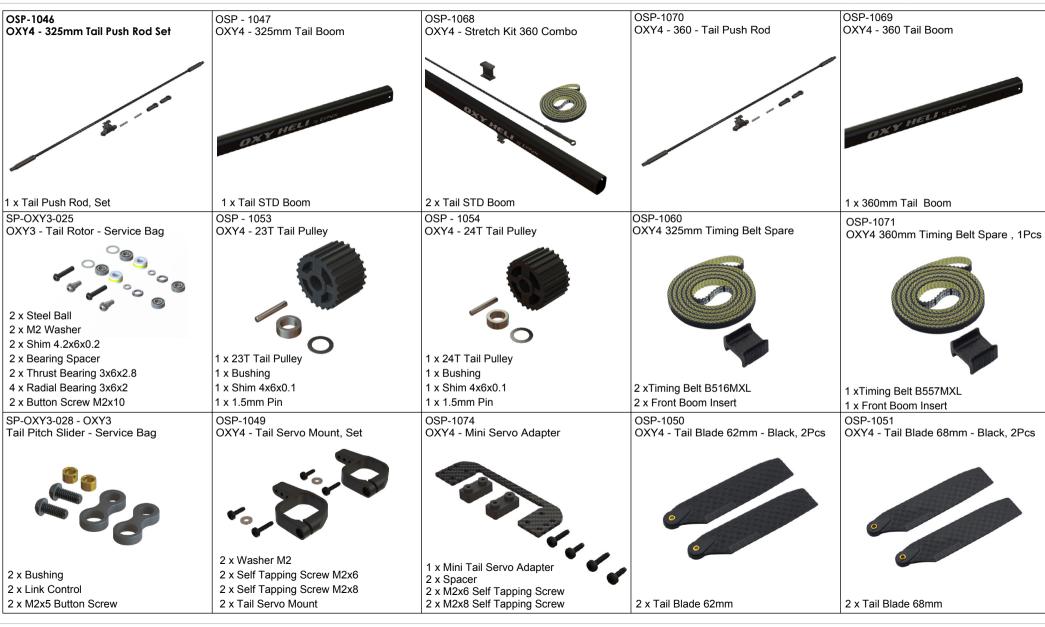
12	OCD 4040	00 0000	
ed Rod M2x10	OSP - 1048 Threaded Rod M2x20	SP-OXY3-036 OXY3 - Servo Arm Set, 4 PC	OSP-1059 OXY4-FBL-Head-System
x10 Threaded Rod	10 x Threaded Rod M2X20	4 x Servo Arm 4 x linkage Ball 4 x Hex Nut	1 Set FBL
75 -Linkage-Ball,-Set	OSP - 1013 OXY4 - Blade Holder	ZHM-NRG325C	M2x6CS-10 - Hex Cap Screw M2x6, 10 PCS
	The state of the s		
Still Linkage Ball Bushing	1 x OXY4 Blade Holder	Main Blades 325mm (Neon Orange)	10 x Hex Cap Screw M2x6
2CS-10 - o Screw M2.5x12, 10 PCS	M2.5-SLN-10 Self Lock Nut M2.5	M3-SLN-10 Self Lock Nut M3	SP-0072 OXY4 - Main Blade Shim Set
c Cap Screw M2.5x12	10 x 10 Self Lock Nut M2.5		4 x 3x15x0.5 Shim 4 x 3x15x0.6 Shim 4 x 3x15x0.7 Shim
	x10 Threaded Rod 75 -Linkage-Ball,-Set Still Linkage Ball Bushing 2CS-10 - 20 Screw M2.5x12, 10 PCS	x10 Threaded Rod 75 -Linkage-Ball,-Set Still Linkage Ball Bushing CCS-10 - O Screw M2.5x12, 10 PCS M2.5-SLN-10 Self Lock Nut M2.5	x10 Threaded Rod 10 x Threaded Rod M2x20 75 -Linkage-Ball,-Set OSP - 1013 OXY4 - Blade Holder 1 x OXY4 Blade Holder 1 x OXY4 Blade Holder Main Blades 325mm (Neon Orange) M2.5-SLN-10 Self Lock Nut M2.5 M3-SLN-10 Self Lock Nut M3



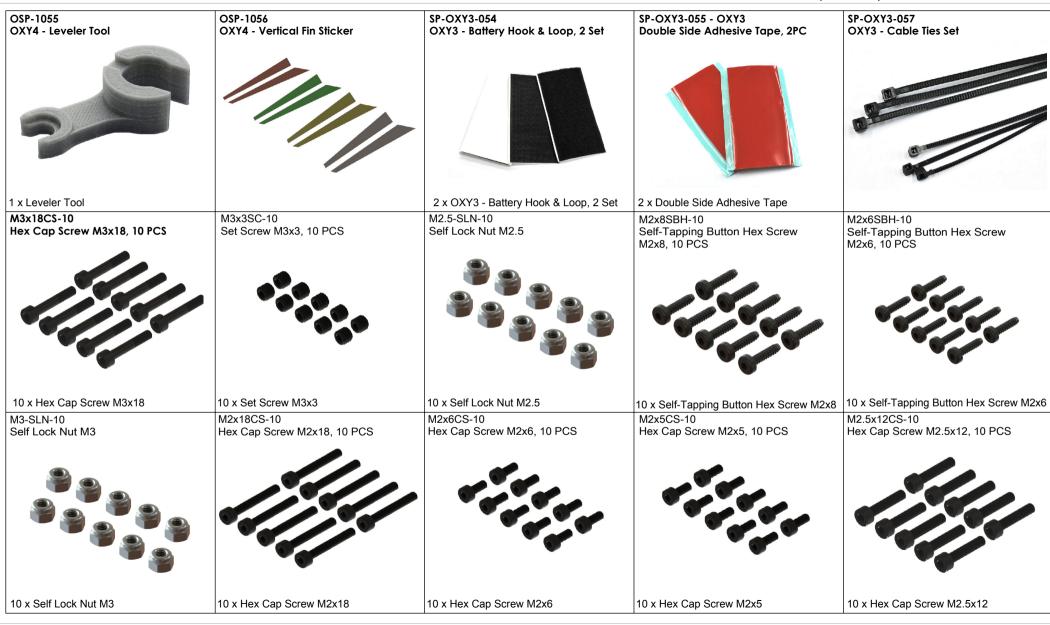
OSP-1015-OXY4-CF-Bottom-Plate OSP - 1027 OSP - 1028 OSP - 1029 OSP-1016-OXY4-Plastic Landing Gear Skid, Set OXY4 - Belt Pulley Guide, Set OXY4 - Main Gear, 2PC OXY4 - One Way Hub Assembly 1 x CF-Bottom-Plate 6 x M2.5x10 Self Tapping Screw 1 Set landing Gear Skid 2 x Pulley Guide Belt Assembly 1 x Main Gear Hub Set 2 x Injection Main Gear OSP - 1034 SP-OXY3-015 OSP - 1032 OSP - 1030 OSP - 1031 OXY4- Battery Tray - OXY3 - Battery Oring , 4PC OXY4 - Front Pulley Assembly OXY4 - Front Pulley Spare OXY4-One Way Sleeve 1 x OXY4 88T Front Pulley 1 x OXY4 One Way Sleeve 1 x OXY4 PL Battery Tray 1 x OXY4 - Front Pulley Hub 1 x OXY4- Front Flange Pulley 1 x OXY4 One Way Screw 3 x OX4 H3x32 M2 2 x Set Screw M3x3 5 x M2X6 Button Screw 1 x M2X4 Hex Cap Screw M2X6 Hex Cap Screw 4 x Battery Strap M2.5x8CS-10 -OSP - 1052 OSP-1077 OSP-1073 M3x8CS-10 -OXY4 - Boom Clamp Stiffener, 4Pcs Hex Cap Screw M2.5x8, 10 PCS OXY3-OXY4 - Canopy Mount OXY4 - Sleeve Locking Screw Hex Cap Screw M3x8, 10 PCS 4 x Canopy Mount 2 x Sleeve Locking Screw 4 x Self Tapping Screw 2 x M2x4 Hex Cap Screw 4 x OXY4 Boom Clamp Stiffener CF 10 x Hex Cap Screw M2.5x8. 10 PCS 10 x Hex Cap Screw M3x8, 10 PCS

M2x6CS-10 - Hex Cap Screw M2x6, 10 PCS	M2x5CS-10 - Hex Cap Screw M2x5, 10 PCS	M2x4CS-10 - Hex Cap Screw M2x4, 10 PCS	M3x3SC-10 - Set Screw M3x3, 10 PCS	M2x6BH-10 - Button Hex Cap Screw M2x6, 10 PCS
10 x Hex Cap Screw M2x6, 10 PCS M2.5x8SBH-10	10 x Hex Cap Screw M2x5, 10 PCS	Hex Cap Screw M2x4, 10 PCS	Set Screw M3x3, 10 PCS	Button Screw M2x6, 10 PCS
Self-TappingScrew M2.5x8, 10 PCS				
0 x Self Tapping M2.5x8				





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M3x3SC-10 Set Screw M3x3, 10 PCS	M2x8SBH-10 Self-Tapping Button Hex Screw M2x8, 10 PCS	M2x6SBH-10 Self-Tapping Button Hex Screw M2x6, 10 PCS	M2x5CS-10 Hex Cap Screw M2x5, 10 PCS	M2x6BH-10 Button Hex Cap Screw M2x6, 10 PCS
10 x Set Screw M3x3	10 x Self-Tapping Button Hex Screw M2x8	10 x Self-Tapping Button Hex Screw M2x6	10 x Hex Cap Screw M2x5	10 x Button Screw M2x6
M2x5BH-10 Button Hex Cap Screw M2x5, 10 PCS				
10 x Button Screw M2x5				



M2x6BH-10 M2x5BH-10 LX0362 I X1568 M2x22SCS-10 Button Hex Cap Screw M2x6, 10 PCS Button Hex Cap Screw M2x5, 10 PCS 3-4 mm Spindle Shaft Wrench 4mm Plastic Linkage Ball Reamer Too Shoulder Hex Cap Screw M2x22, 10 PCS 10 x Shoulder Hex Cap Screw M2x22. 10 x Button Screw M2x6 10 x Button Screw M2x5 1 x 3 - 4 mm Spindle Shaft Wrench 1 x 4mm Plastic Linkage Ball Reamer Tool 10 PCS SP-0067 M4x3SC-10 - Set Screw M4x3, 10 PCS OSP-1061 SP-0065 SP-0066 OXY4 - Helicoidal Pinion 17T **OXY4 STD Canopy** OXY4 - Helicoidal Pinion 14T OXY4 - Helicoidal Pinion 15T. - 3.5mm Motor Shaft - 3.17mm Motor Shaft - 3.5mm Motor Shaft 1x 14T -3.17mm Motor Shaft Pinion 1x 15T -3.5mm Motor Shaft Pinion 1x 17T -3.5mm Motor Shaft Pinion 10 x Set Screw M4x3, 10 PCS 1 x Canopy 1 x Set Screw M3x3 1 x Set Screw M3x3 1 x Set Screw M3x3 OSP-1086 OSP-1087 OSP-1088 OSP-1089 OSP-1090 OXY4 - Helicoidal Pinion 12T OXY4 - Helicoidal Pinion 13T OXY4 - Helicoidal Pinion 18T OXY4 - Helicoidal Pinion 15T OXY4 - Helicoidal Pinion 16T - 3.5mm Motor Shaft - 3.17mm Motor Shaft - 3.17mm Motor Shaft - 3.5mm Motor Shaft - 3.5mm Motor Shaft 1x 12T -3.17mm Motor Shaft Pinion 1x 13T -3.5 mm Motor Shaft Pinion 1x 15T -3.17 mm Motor Shaft Pinion 1x 16T -3.5 mm Motor Shaft Pinion 1x 18T -3.5 mm Motor Shaft Pinion 1 x Set Screw M3x3 1 x Set Screw M3x3

			Onapici	23. Spare raits - Accessories raits
OSP-1091 OXY4 - Helicoidal Pinion 13T - 3.17mm Motor Shaft	OSP-1092 OXY4 - Helicoidal Pinion 14T - 3.5mm Motor Shaft			
1x 13T -3.17 mm Motor Shaft Pinion 1 x Set Screw M3x3	1x 14T -3.5 mm Motor Shaft Pinion 1 x Set Screw M3x3			
TA GET GOLEW MOXO	TA OCT GOTOW MOAG			
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