

VERY IMPORTANT NOTE:

- Inside Box 02 you will find the instruction manual in PDF format on cd rom.
- Visit the Oxy Heli web site www.oxyheli.com to download the latest version of the manual.
- In the same box you will also 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 3 Helicopter.

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SPECIFICATIONS



- -Standard main rotor diameter
- -Standard main blade length
- -Main Grip Clamping
- -Standard tail rotor diameter
- -Standard tail blade length
- -Tail Blade Clamping
- -Weight
- -Maximum motor size
- -Maximum battery size

- : 570mm (with 255mm blades).630mm (with 285mm blades)
- : 255mm, (Stretch) 285mm.
- : M2 / 5.6 mm root.
- : 130-136mm.
- : 47 50mm.
- : M2 / 3.5 mm root.
- : 450g (ready to fly excluding batteries)
- : diameter 28mm.
- : length 76mm, height 35mm, width 37mm, weight 180gr



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.

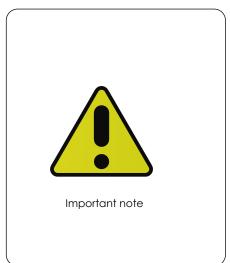
SAFETY GUIDELINES.

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.

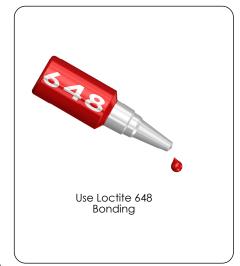
Please read this instruction manual fully before beginning assembly of this model helicopter. Be sure to use quality tools during the assembly process, and remember not to overtighten small fasteners. Note the following symbols which are used in this manual. Use thread lock sparingly where indicated. 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.





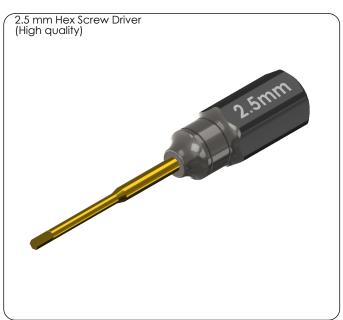


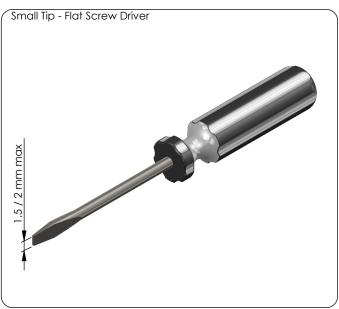


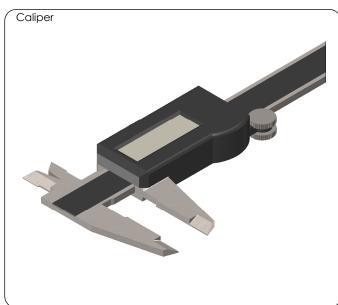


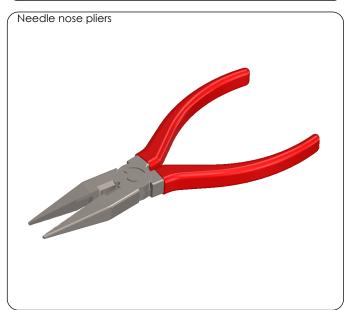


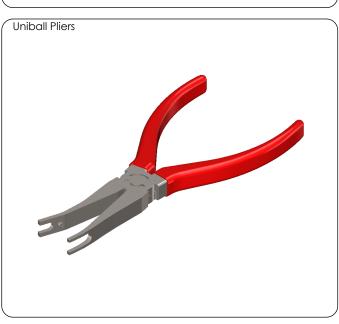


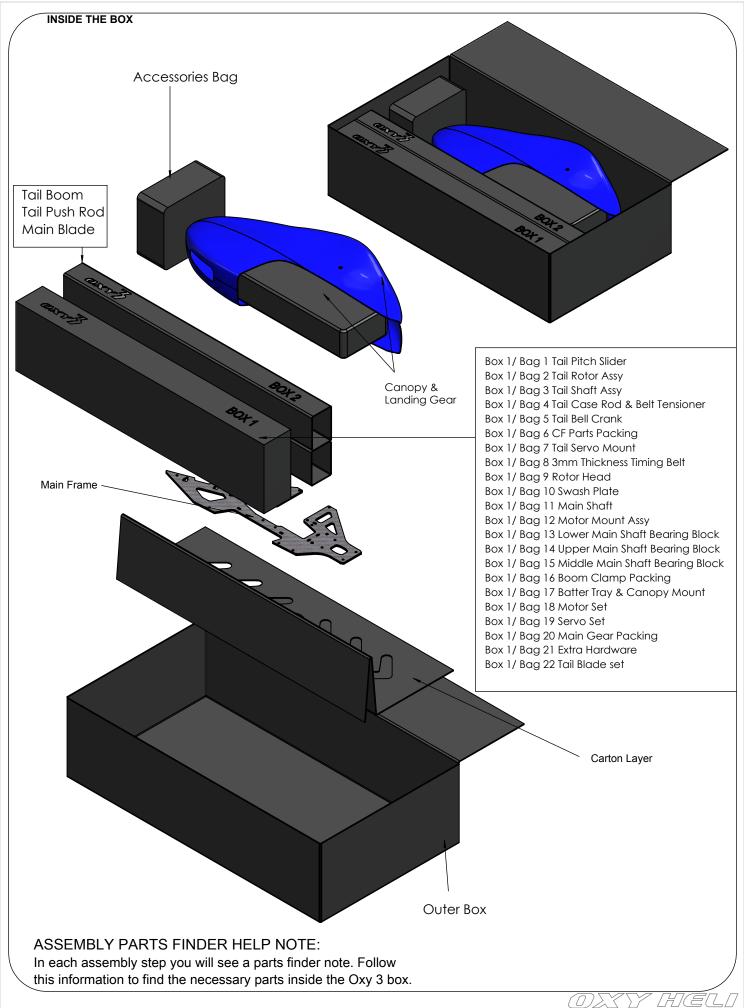


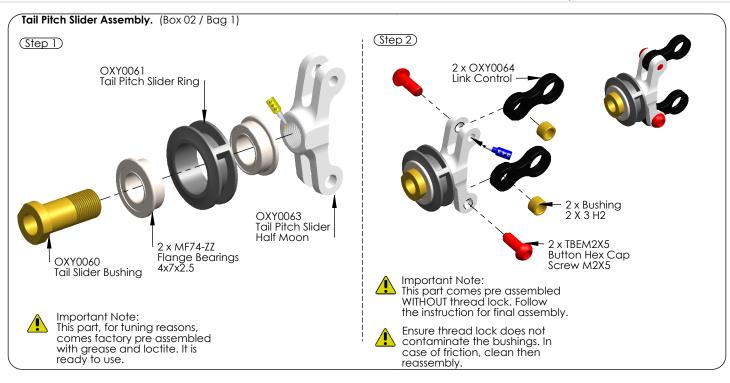


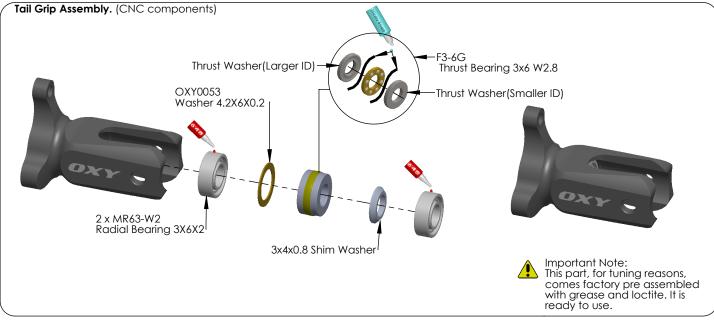


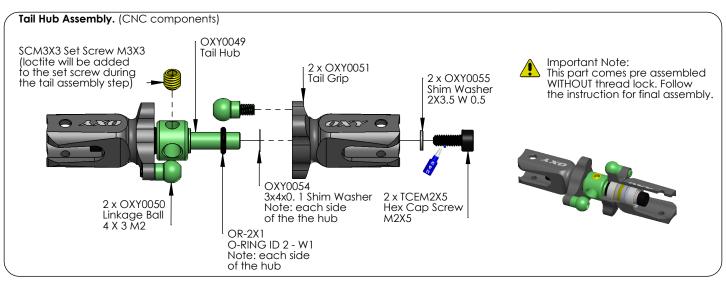




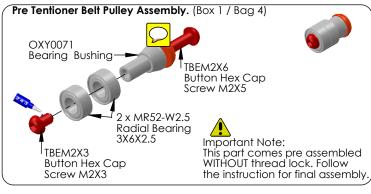


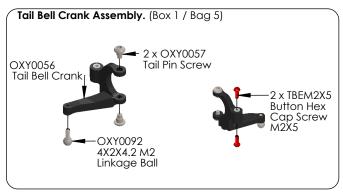


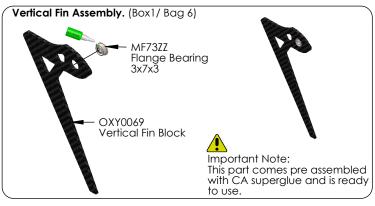


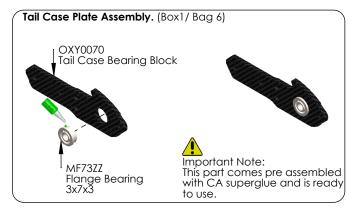


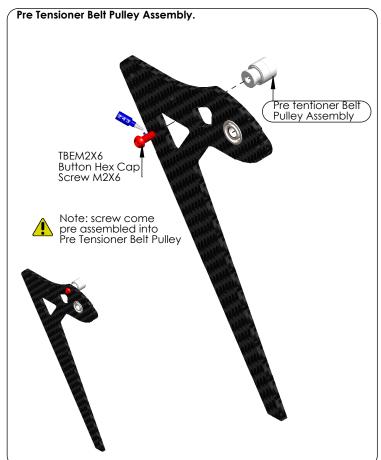


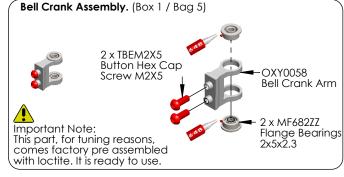


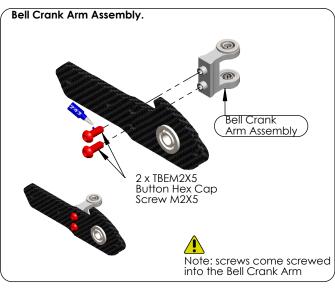




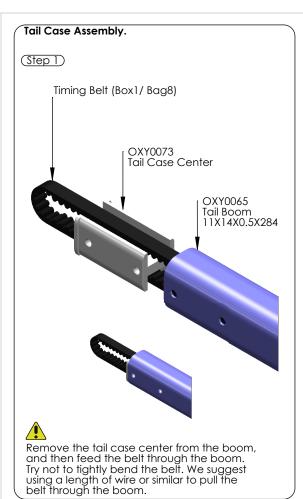


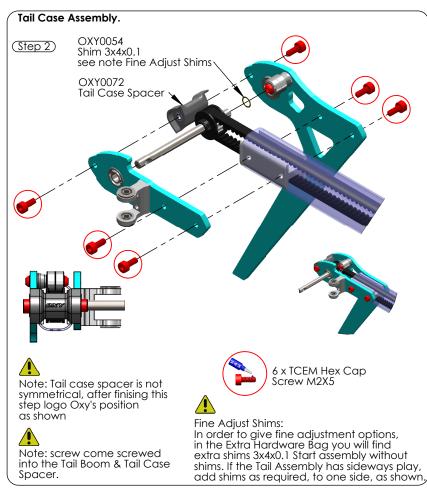


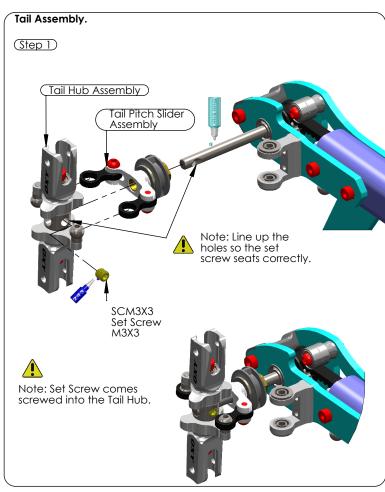


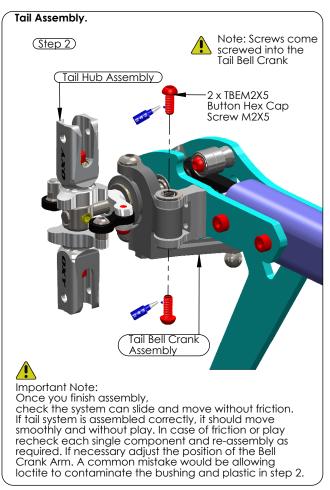


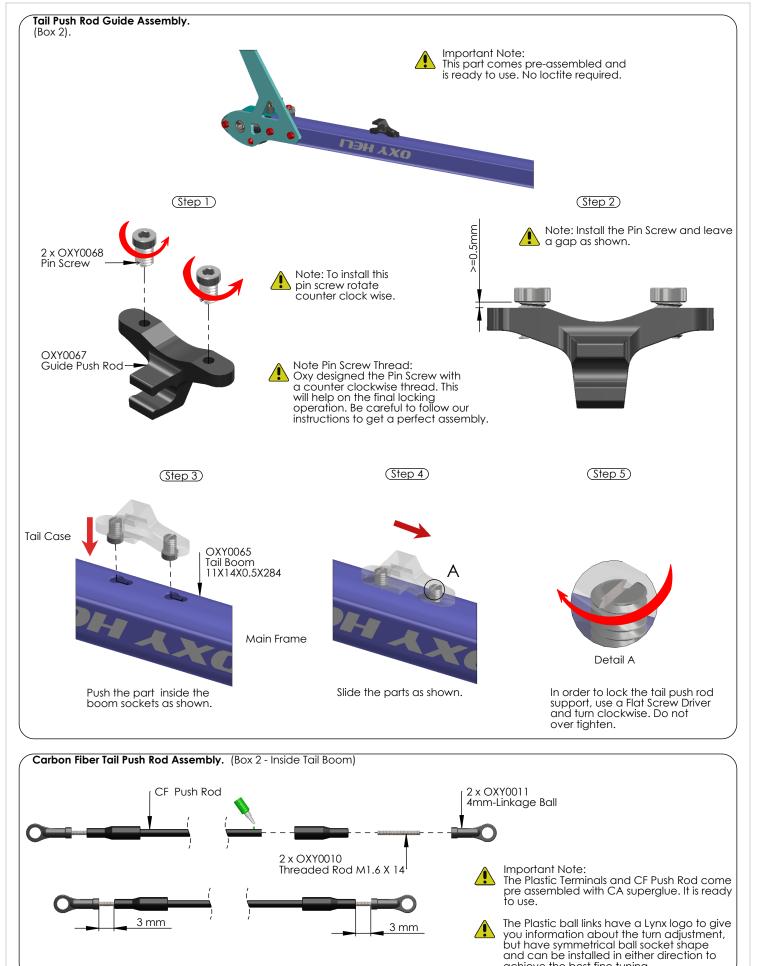




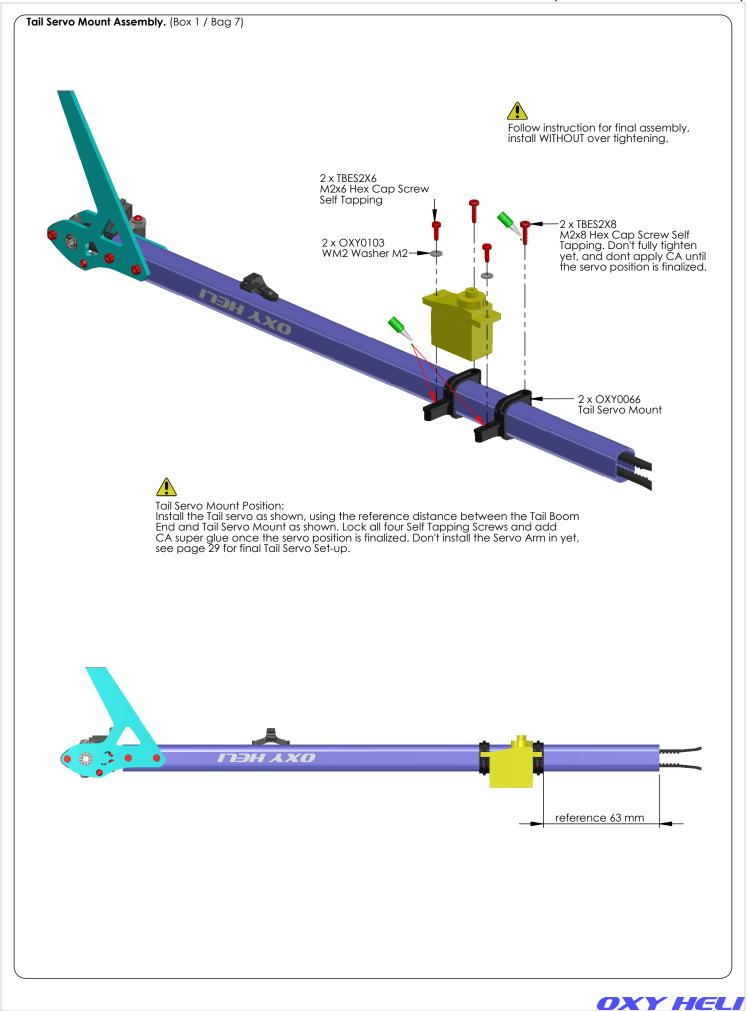


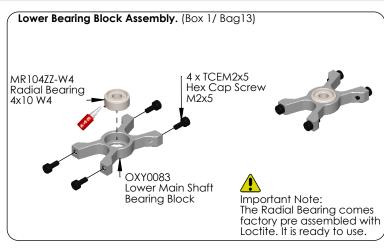


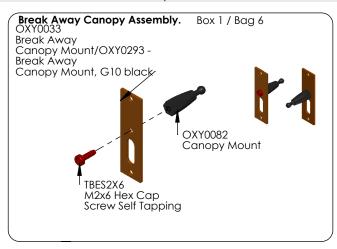


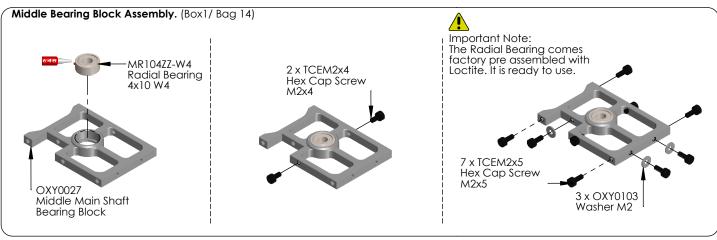


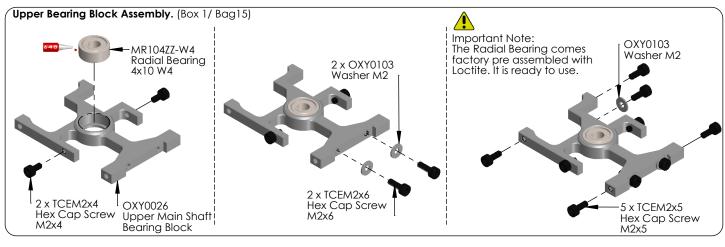
achieve the best fine tuning.

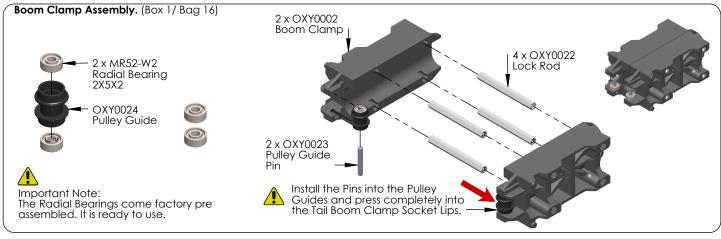


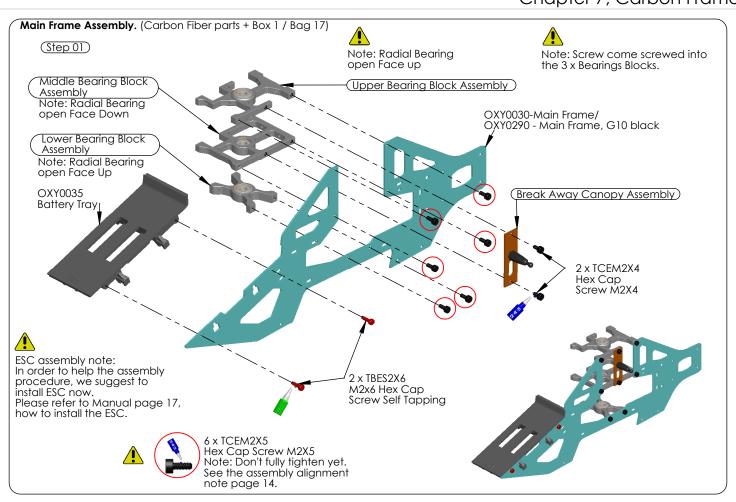


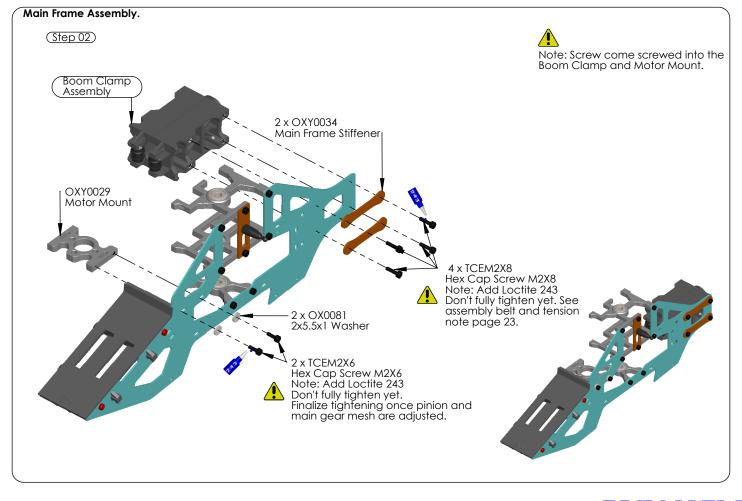


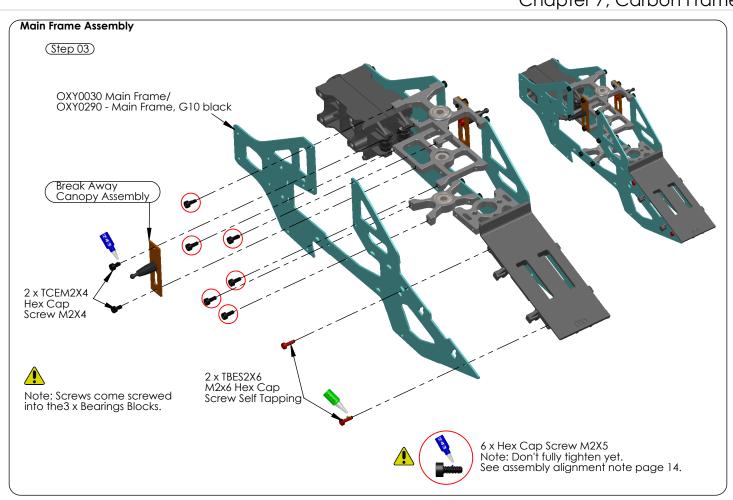


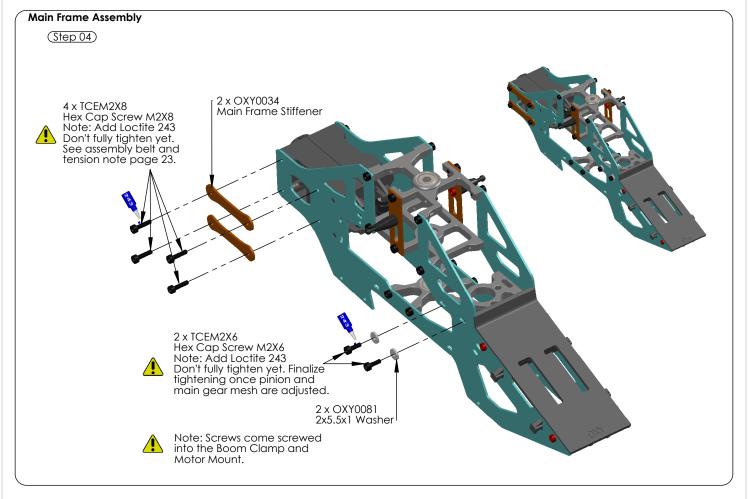


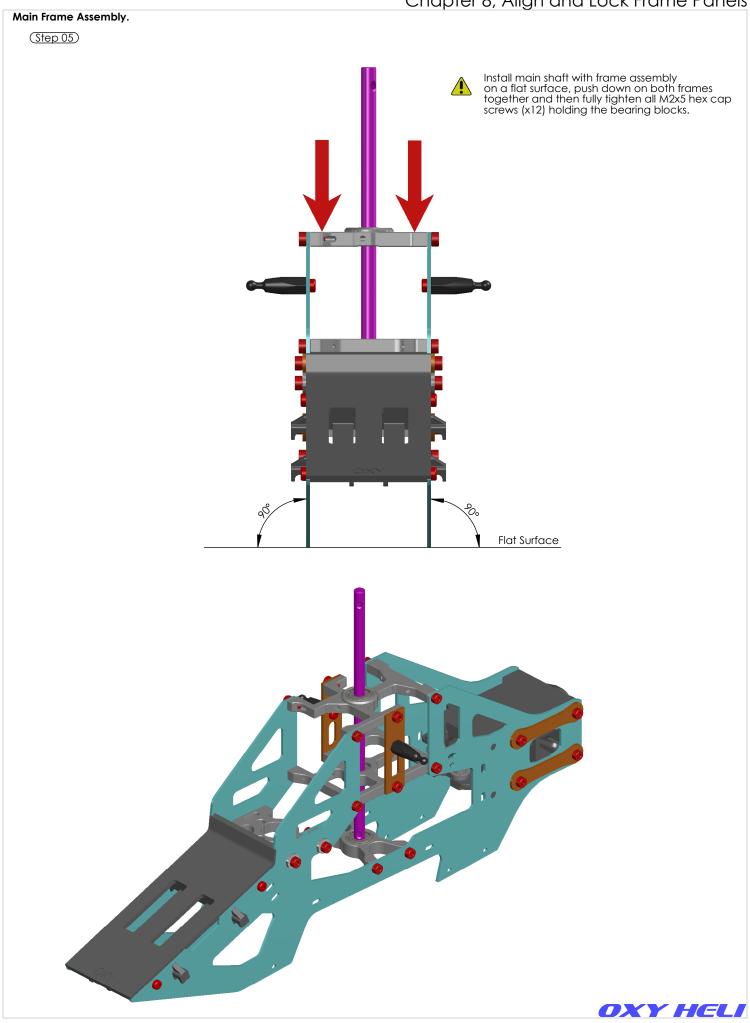


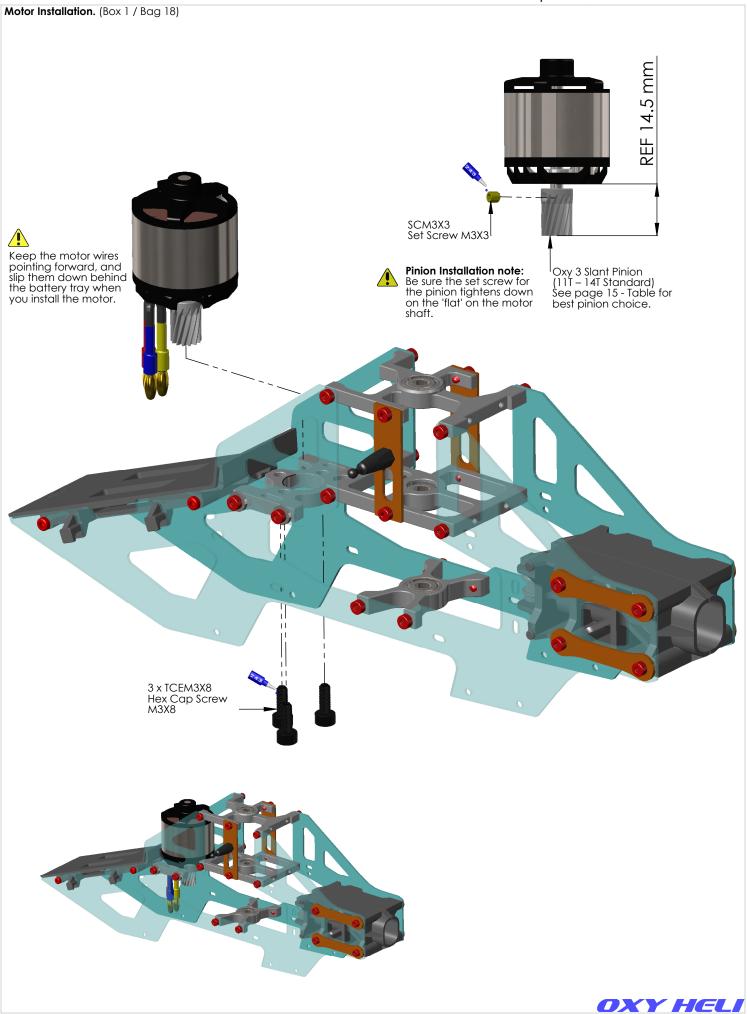












OXY 3 POWER SYSTEM AND HEAD SPEED SET-UP

In order to choose the best setup for your Oxy 3, and optimize performance, it is important to know some basic information:

- 1- Motor Kv the standard motor is the EOX 2214 4100 KV
- 2- Battery Pack (3s or 4s)
- 3- Your target head speed

If you use a head speed calculator, use 140T for the main gear and one of the available pinions 10T - 11T - 12T - 13T - 14T - 15T. The kit comes with two pinions (11T and 14T) which enables a wide head speed range with both 3 and 4s batteries for novice and expert pilots.

Oxy 3 gear ratio chart

Oxy P/n	Description	Ratio	Note
OXY0104	Pinion 10T-M0.5 - 3.17 Motor Shaft	14	
OXY0094	Pinion 11T-M0.5 - 3.17 Motor Shaft	12.727	Included
OXY0095	Pinion 12T-M0.5 - 3.17 Motor Shaft	11.667	
OXY0096	Pinion 13T-M0.5 - 3.17 Motor Shaft	10.769	
OXY0042	Pinion 14T-M0.5 - 3.17 Motor Shaft	10.000	Included
OXY0086	Pinion 15T-M0.5 - 3.17 Motor Shaft	9.333	

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

Fly Style	Head Speed	Main Blade	Tail Blade	Max Pitch
Hover	2500 / 3000	245 Plastic	50	+ 10 / -3
	2300 / 3000	255 CF		
Fly 2D	3000 / 3500	245 Plastic	50	+ 10 / -5
	3000 / 3300	255 CF		
Soft 3D	3000 / 3500	250 CF	50	+/- 12
	3000 / 3300	255 CF		
Hard 3D	3500 / 4000	250 CF	47	+/- 14
	3300 / 4000	255 CF		
Extreme 3D	4000 / 4500	250 CF	47	+/- 14
	4000 / 4300	255 CF		1/- 14

As a quick guide, if you are a beginner use the 11T pinion, and 3 cells.

If you are more experienced, use the 14T pinion on 3 cells.

For 4 cell setups, we assume you know what you are doing!

<u>Head Speed Note:</u> Although Oxy 3 can handle very high Head Speed, we suggest not to exceed 4500 RPM to maintain a good compromise btw performances and efficiency.

Configuration examples

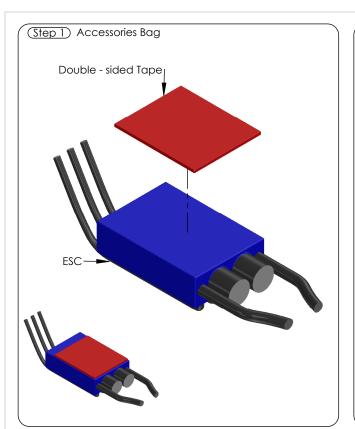
Since the Oxy 3 is a high performance 3D RC helicopter, we suggest using high quality power components including motor, battery and ESC. Remember the Oxy 3 is a 300 class heli – use light components to maximize flight time and performance.

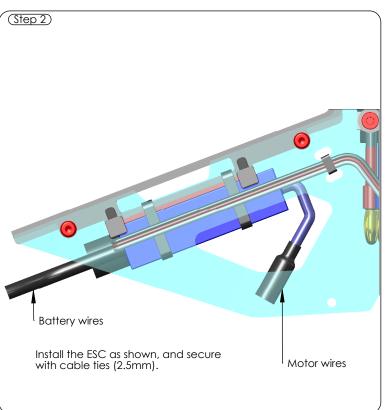
Here are some suggestions:

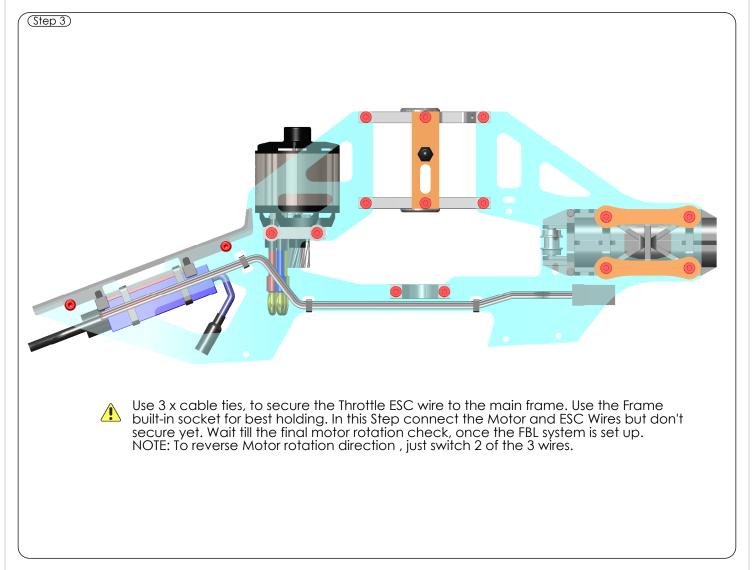
- Motor: Suggested KV 3000KV to 4500KV, 21-08 to 22-14 caliber series (stator diameter stator length).
- Battery: 3 or 4S with capacity from 1300 to 1500mAh / 35C discharge rate. Maximum size: length 76mm, height 35mm, width 37mm, weight 180g.
- ESC: 35 to 40A with BEC 6V or higher. Or use an external 5A BEC. The Oxy 3 Kit 002 comes with a 40A ESC, preset with 6V BEC and settings for the EOX 2214-4100KV motor.
- Cyclic servos: Standard MICRO size servo with metal gear speed: =>0.06 sec/60 at 6V.
- Rudder servo: Standard MICRO size servo speed =>0.06 sec/60 at 6V a specific rudder servo is suggested for best tail authority.
- FBL system: The Oxy 3 was designed around the Ikon / Brain and Mini V-Bar Systems. But many other good quality FBL systems can be used, depending on your personal choice.
- Main blade: The Oxy 3 can fly with plastic or CF main blades from 245 to 255mm. Our testing was with Lynx 245mm plastic main blades, and Zeal 250mm and 255mm CF main blades. The Oxy 3 main grips use M2 clamp screw and have a 5.6mm root.
- Tail blades: The Oxy 3 uses our own OEM tail blades, either 47 or 50mm (included with the kit). They use a M2 clamp screw and 3.5 root.

We offer 47 and 50mm tail blades to suit different head speeds. Use 50mm tail blades when your head speed is lower than 3500rpm and 47mm with higher head speeds.

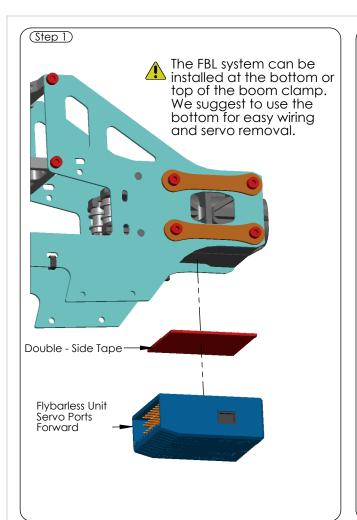
Chapter 11, ESC Installation

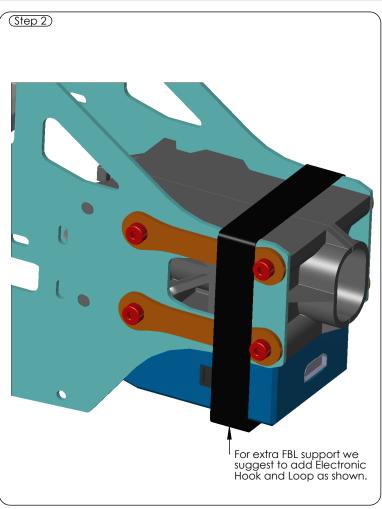


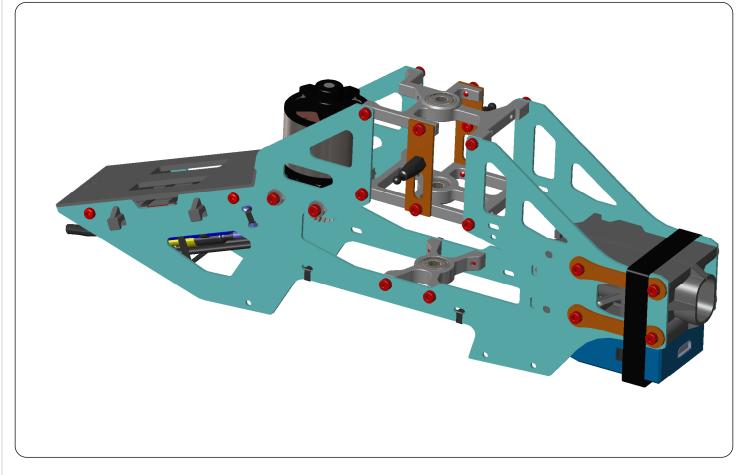


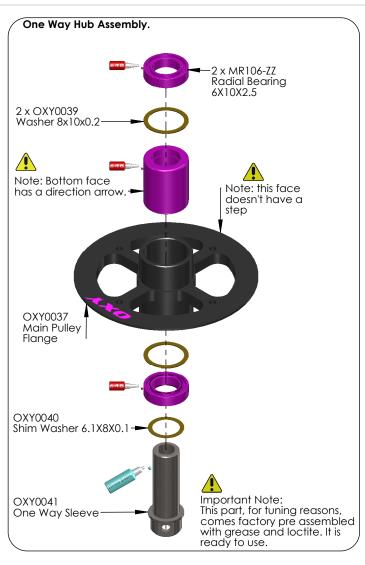


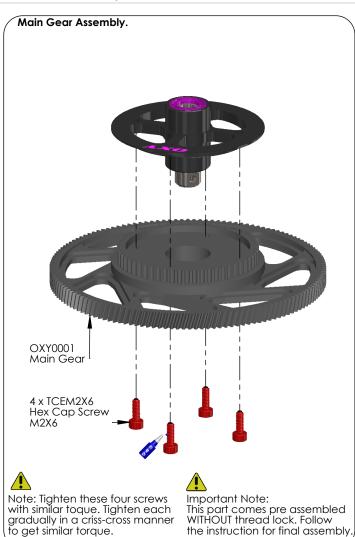
Chapter 12, Flybarless Installation

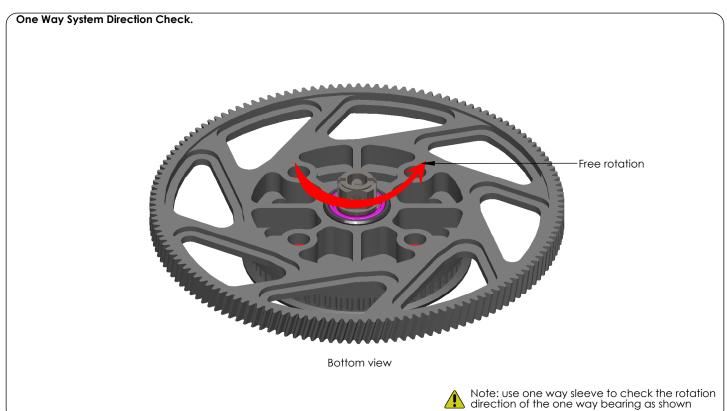


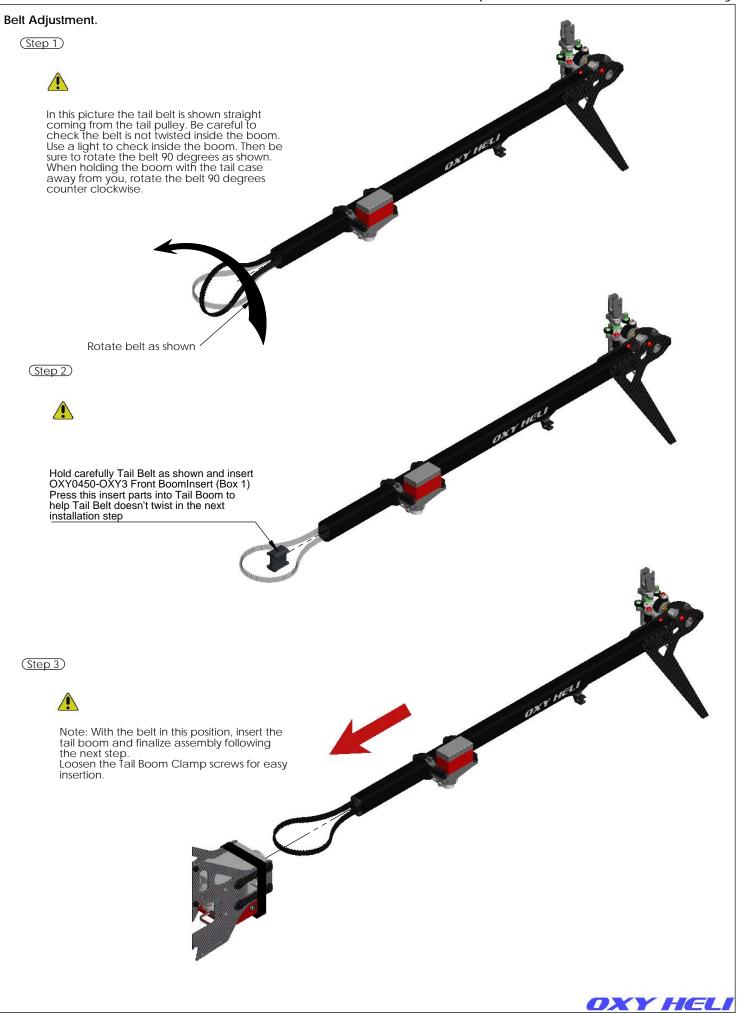


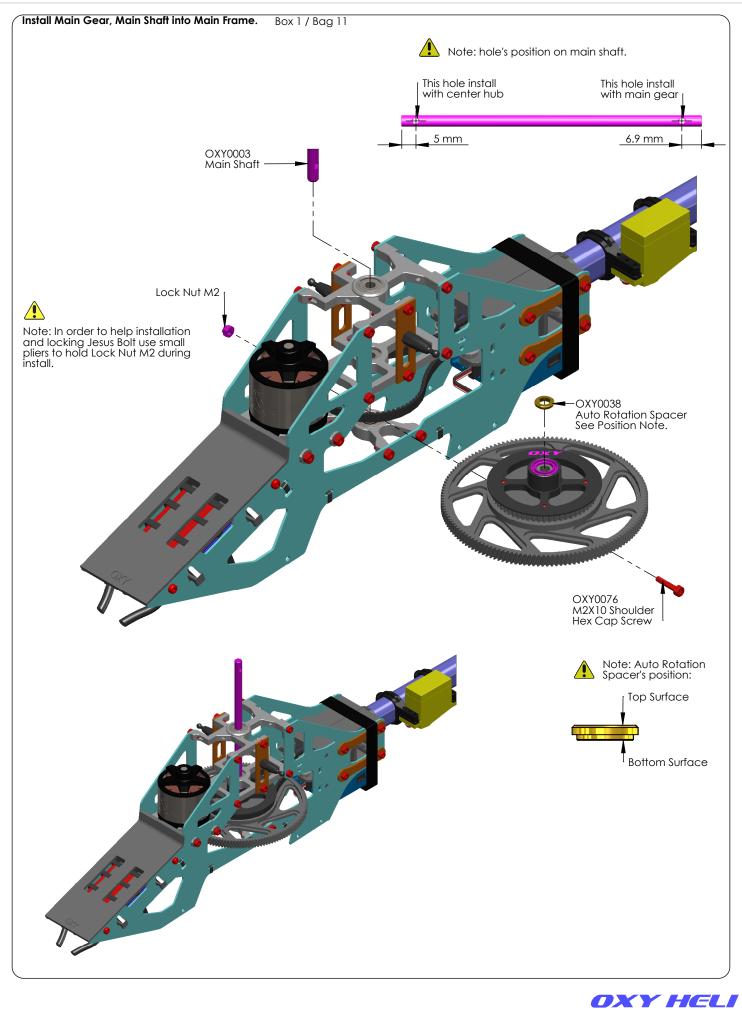


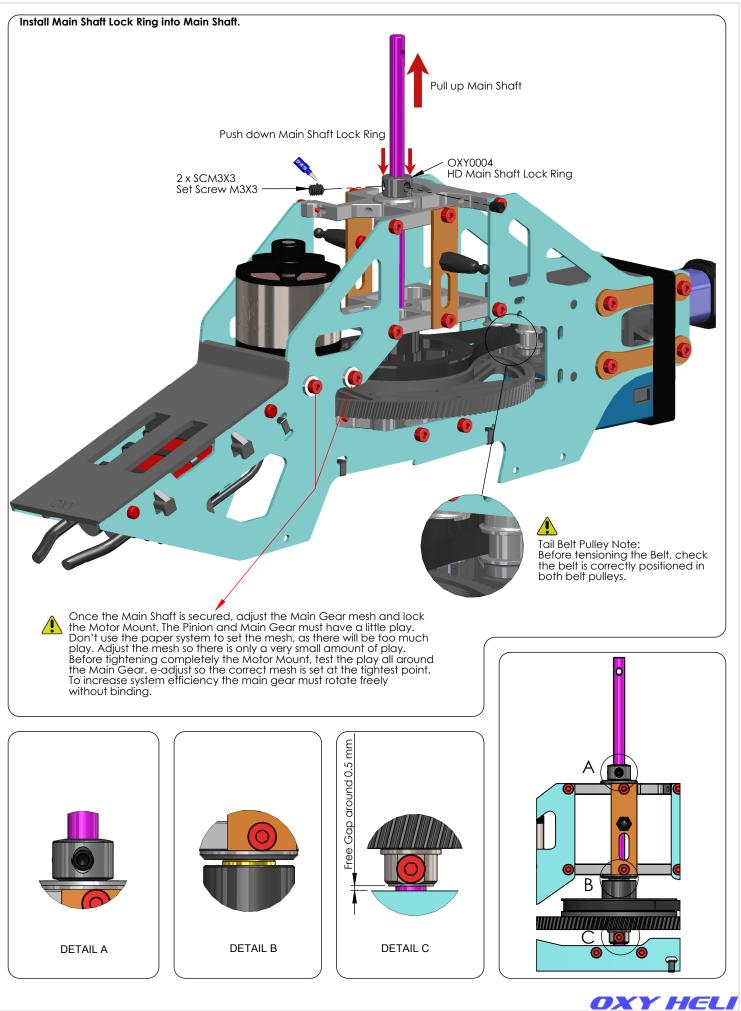




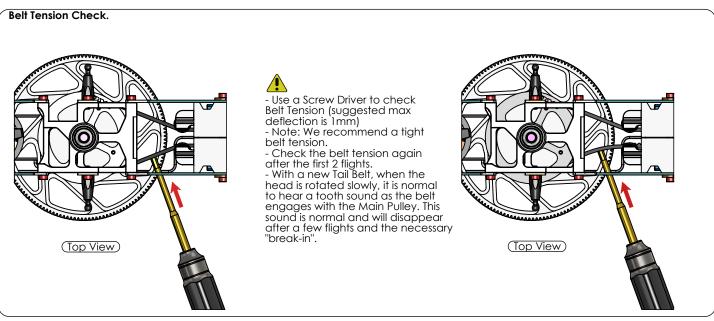


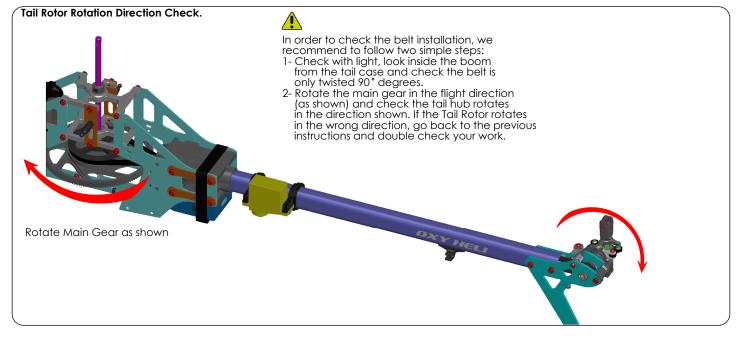


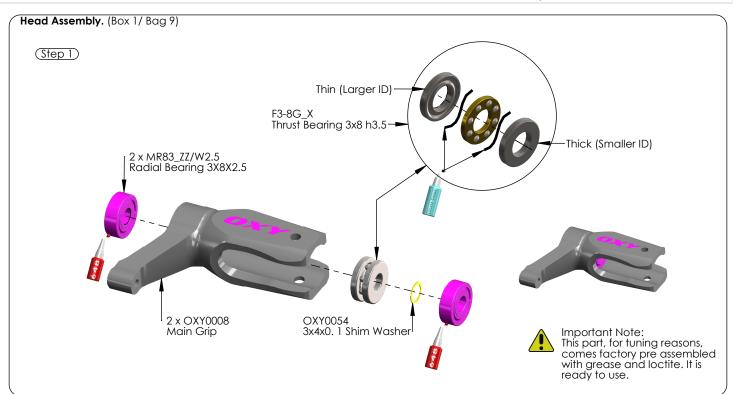


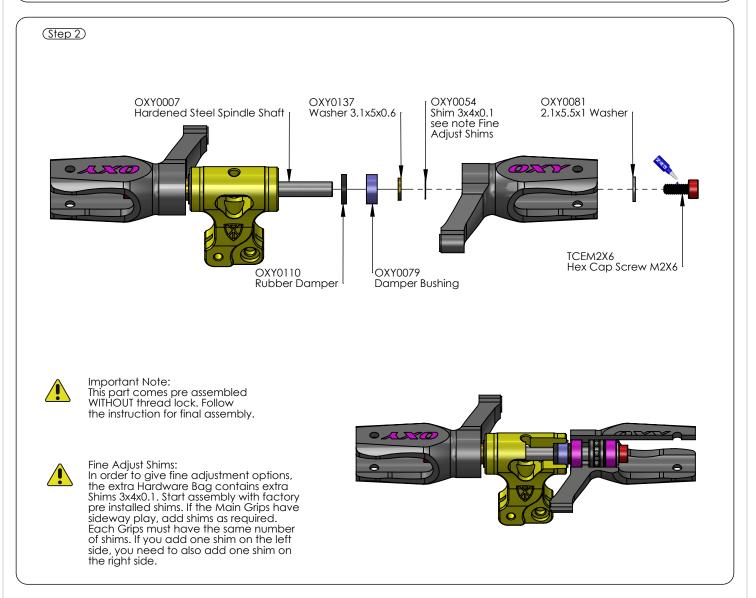


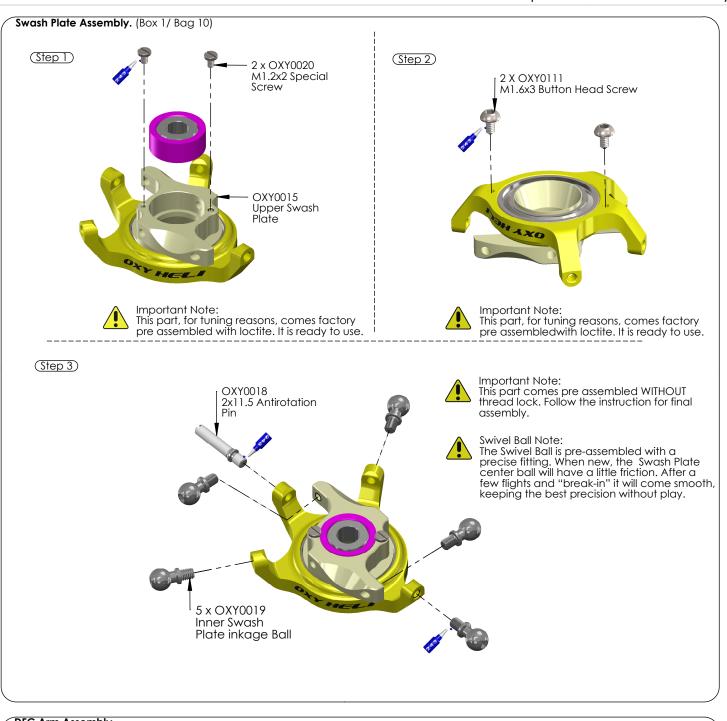


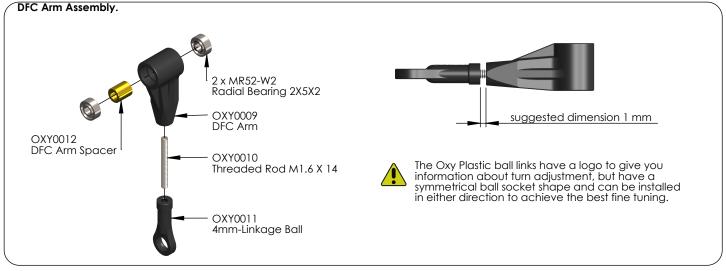


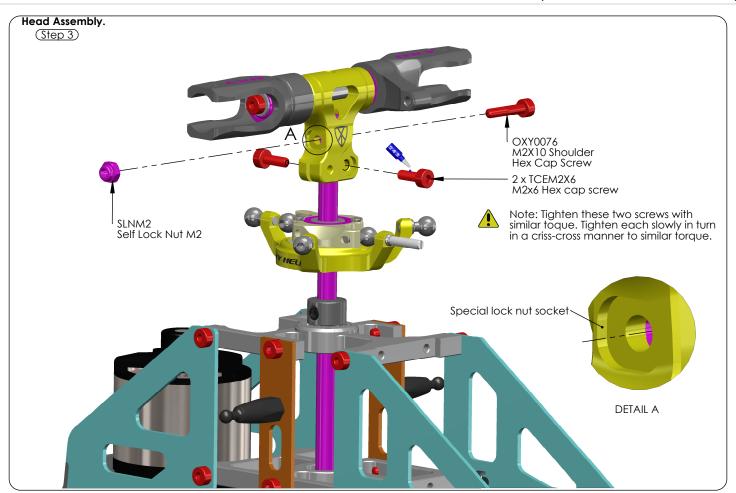


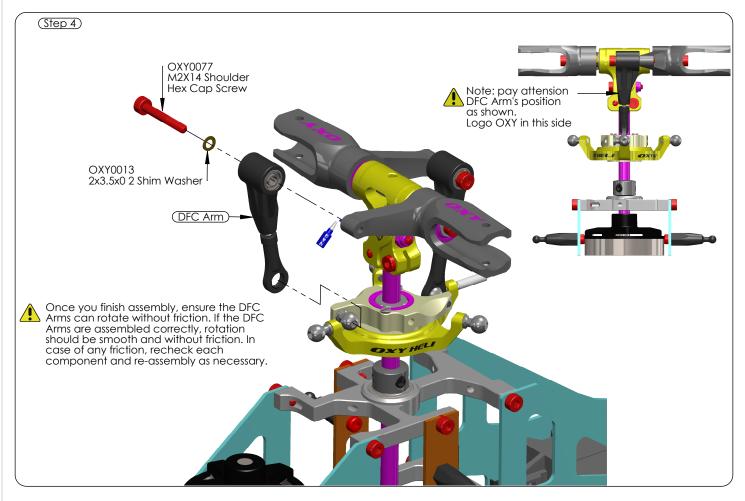








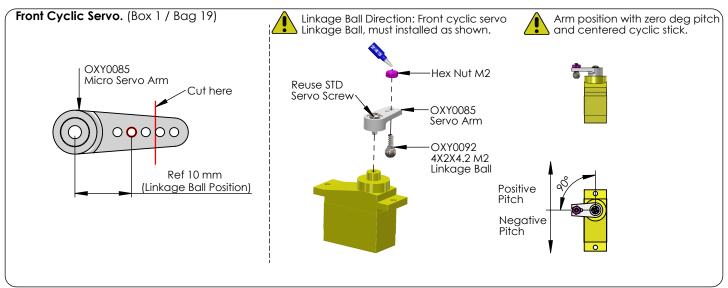


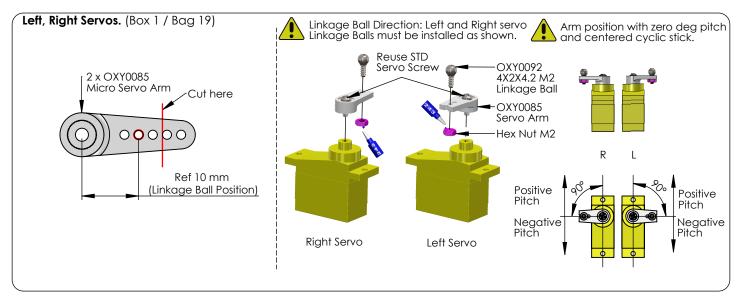


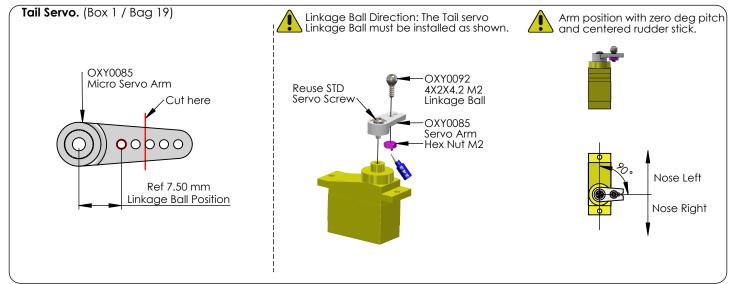
Chapter 16, Servo and FBL System Start Up

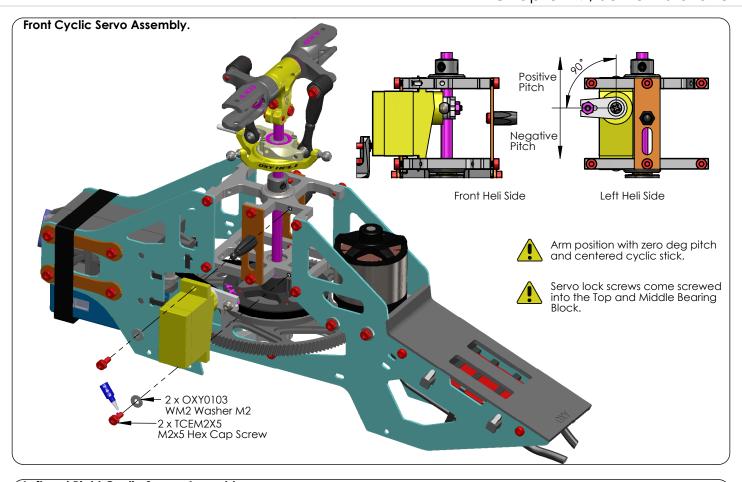
- You should now do some initial setup of your FBL unit and servos.
- We recommend you select a new model in your transmitter, and reset your FBL unit and start with a clean setup in it as well.
- After binding your transmitter to the receiver system used with the FBL unit, work your way through the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

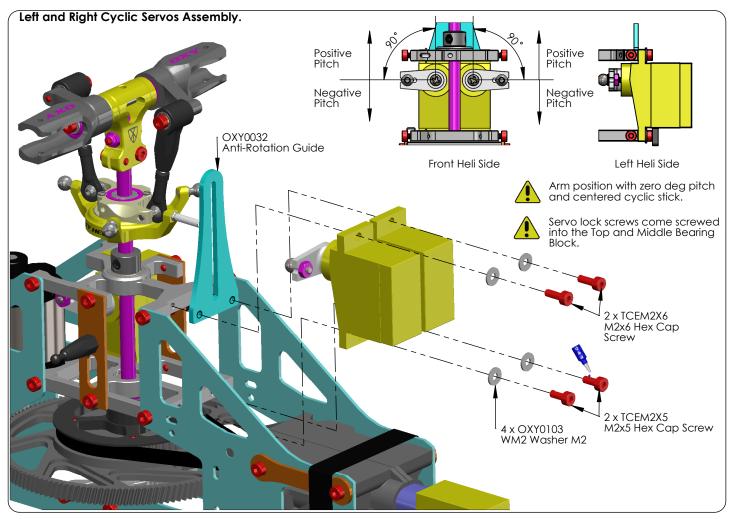
 This procedure varies between units. Carefully label the position of the servos, then proceed with the installation of the servos as shown.

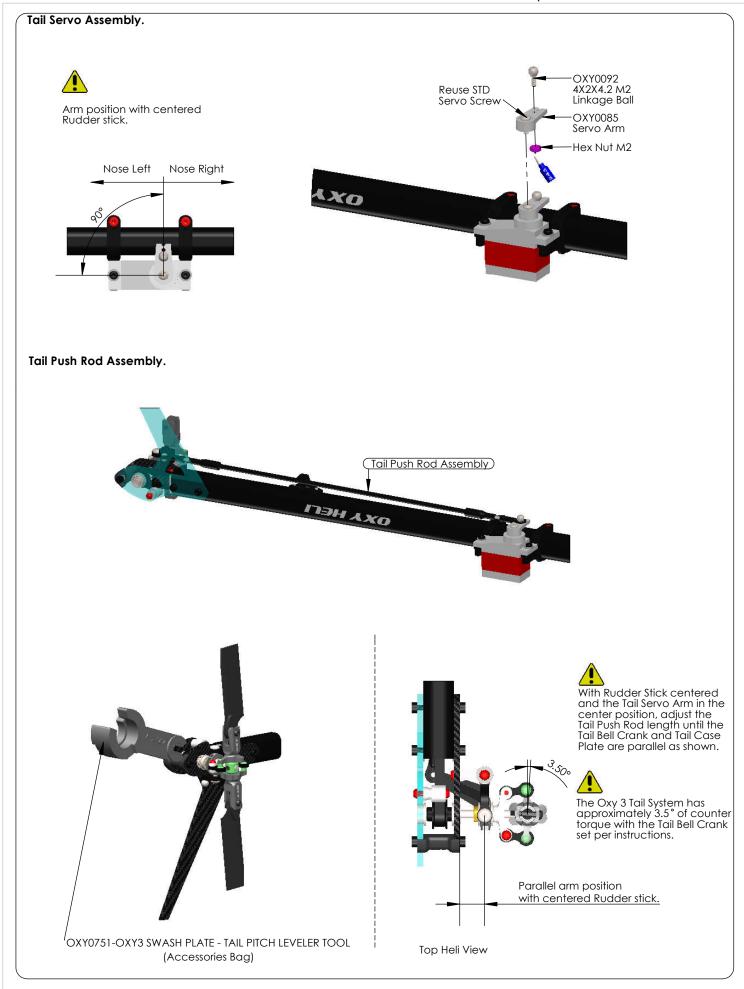


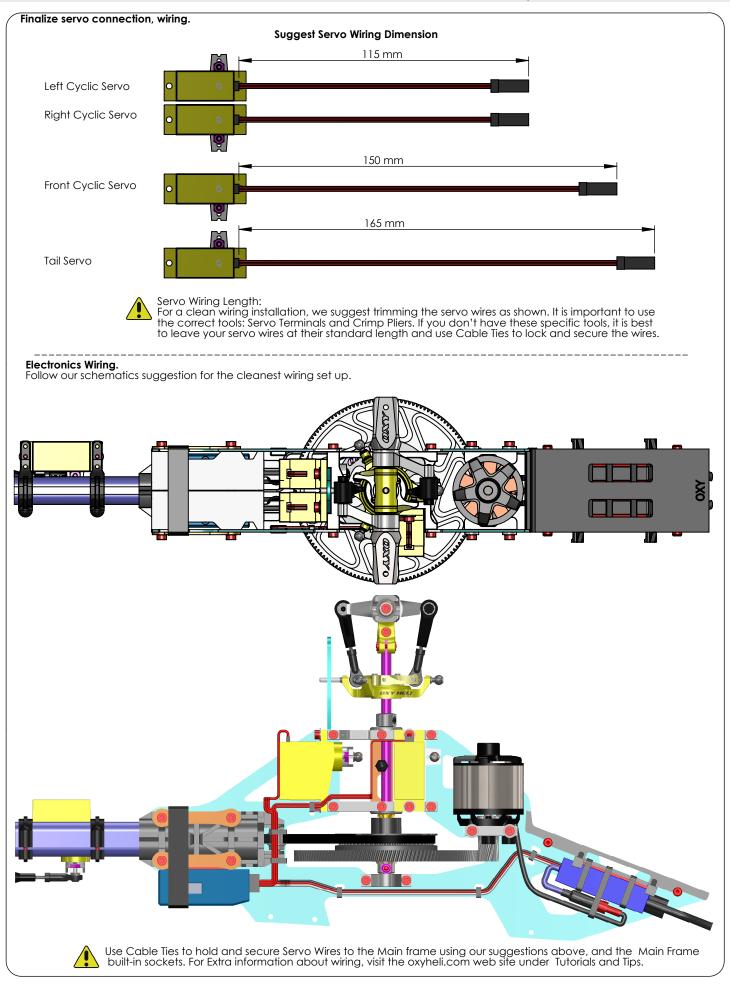




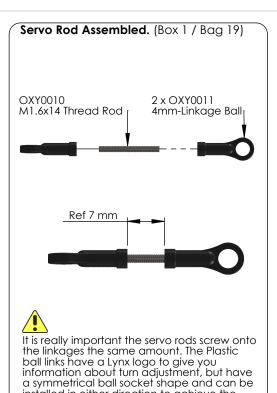






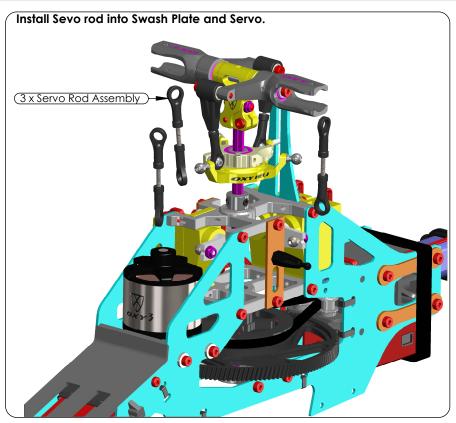


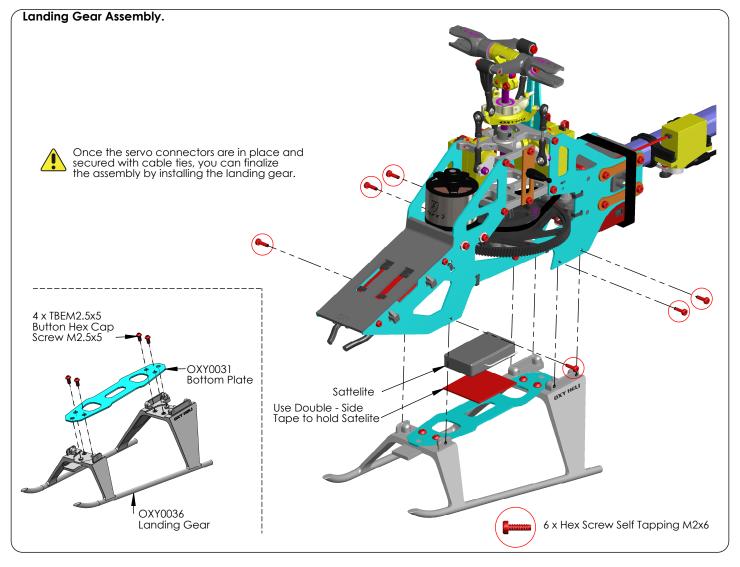
Chapter 18, Servo Rod and Landing Gear Installation



installed in either direction to achieve the

best fine tuning.





Before Flight.

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 3 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:

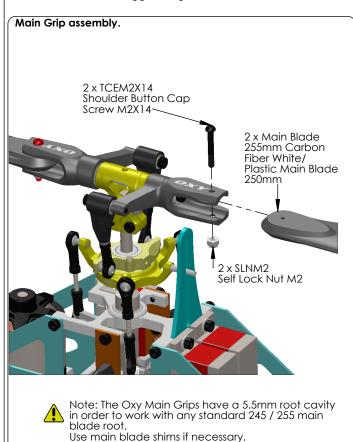
Use suggested settings for 450 Helicopters and adjust after test flights.

See our table on page 15 for RPM and Pitch Settings. Cyclic Max pitch should be +/- 10.5 deg.

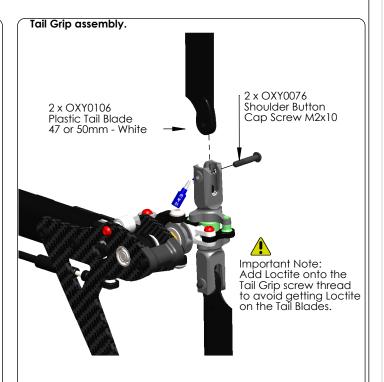
Tail Set Up:

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

IKON / Brain = 20% Mini V-Bar = 250 Heli suggested gain.

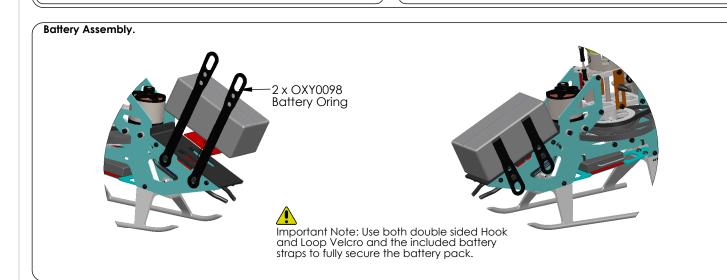


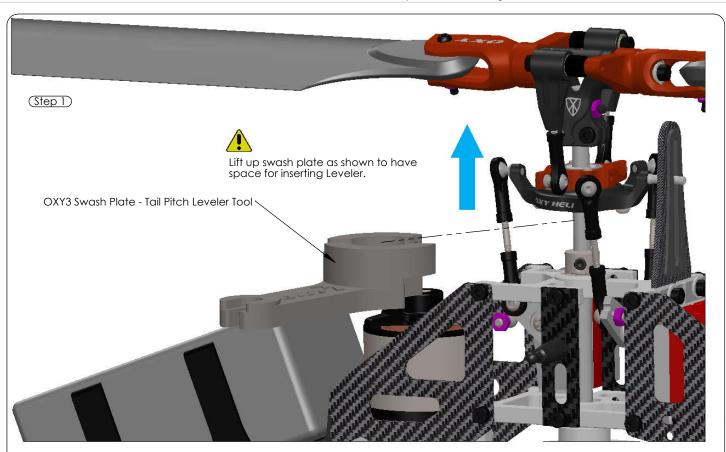
Shims are usually supplied with the main blades.

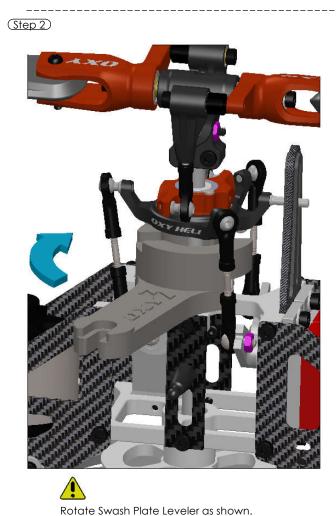


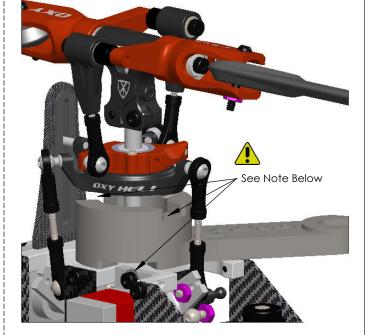
Oxy tail blade dimension note: In order to assure the best performance Oxy made a custom tail blade with a 3.5mm root. If you use different tail blades with a 2.5mm root you must use shims (not included).

Information about 47 and 50mm tail blades: In the kit we include two sets of tail blades - the 47mm are designed for high head speed, the 50mm are designed for low head speed. We recommends using 47mm when head speed is higher than 4000rpm.

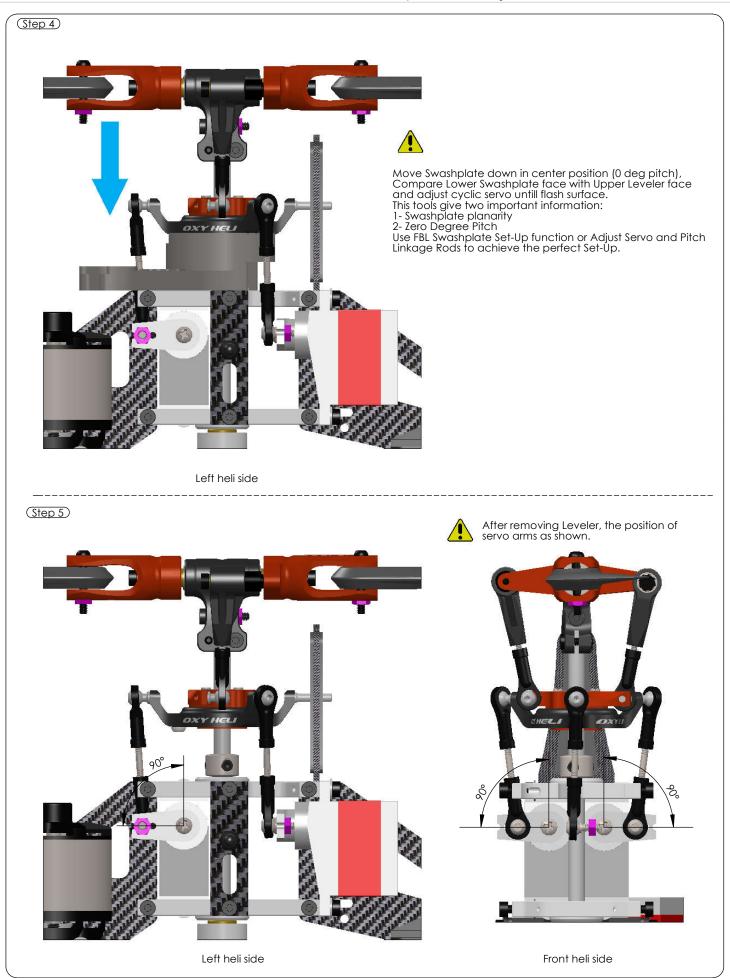




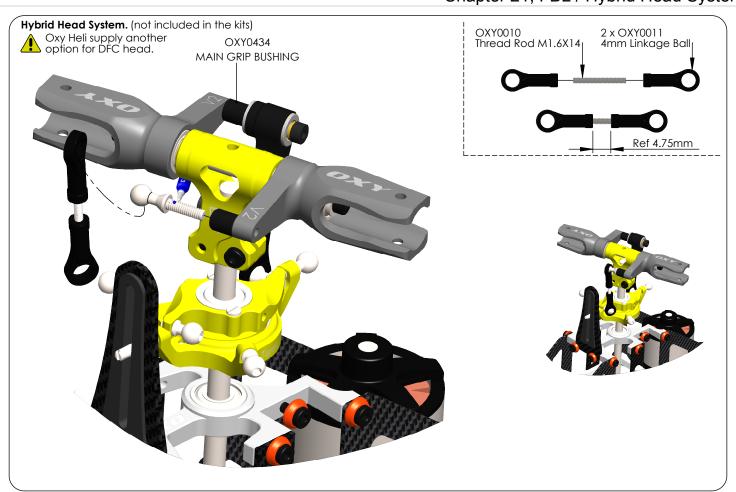


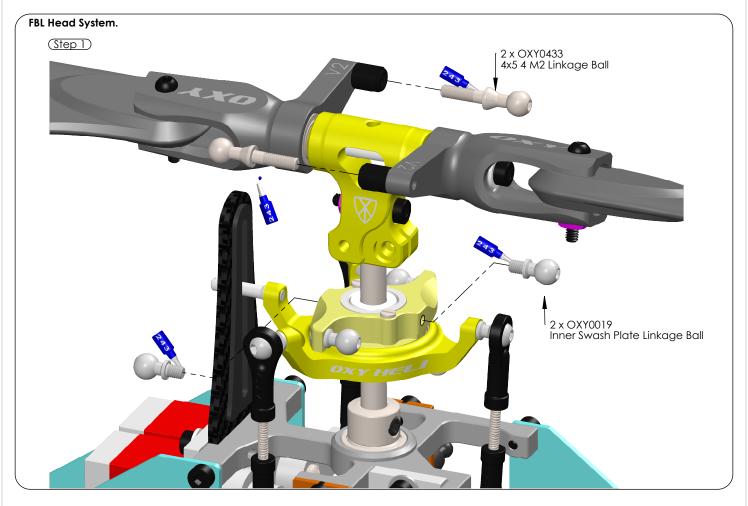


Note: Before move Swashplate in center position (0 deg pitch) center Swashplate lower Screw and Elevator Servo Screw with Leveler socket.

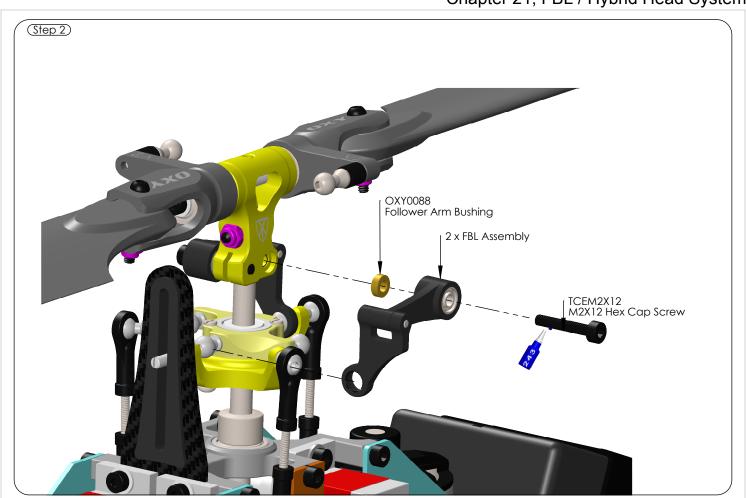


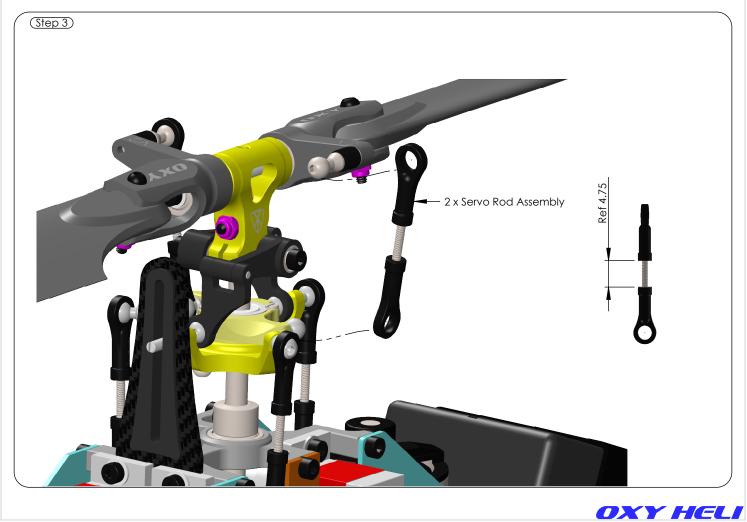
Chapter 21, FBL / Hybrid Head System

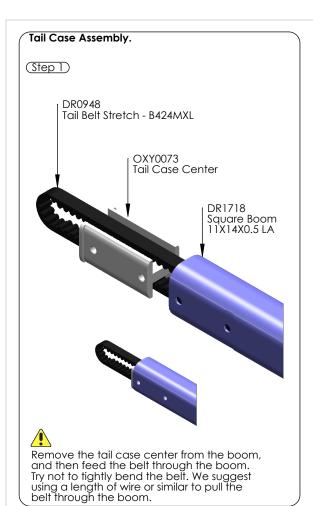


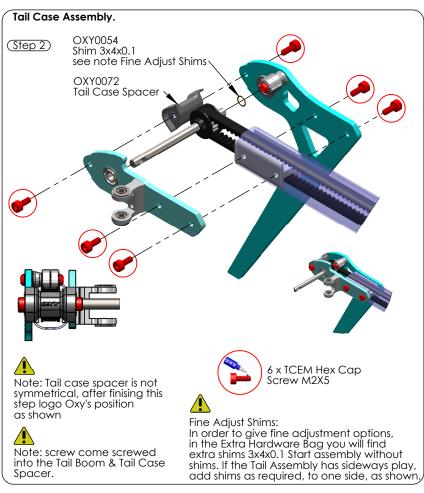


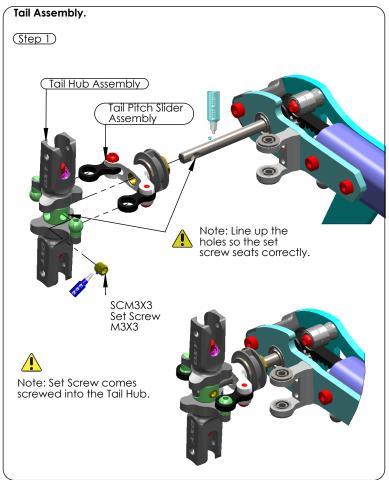
Chapter 21, FBL / Hybrid Head System

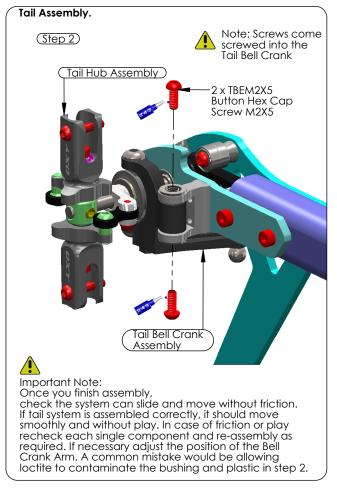


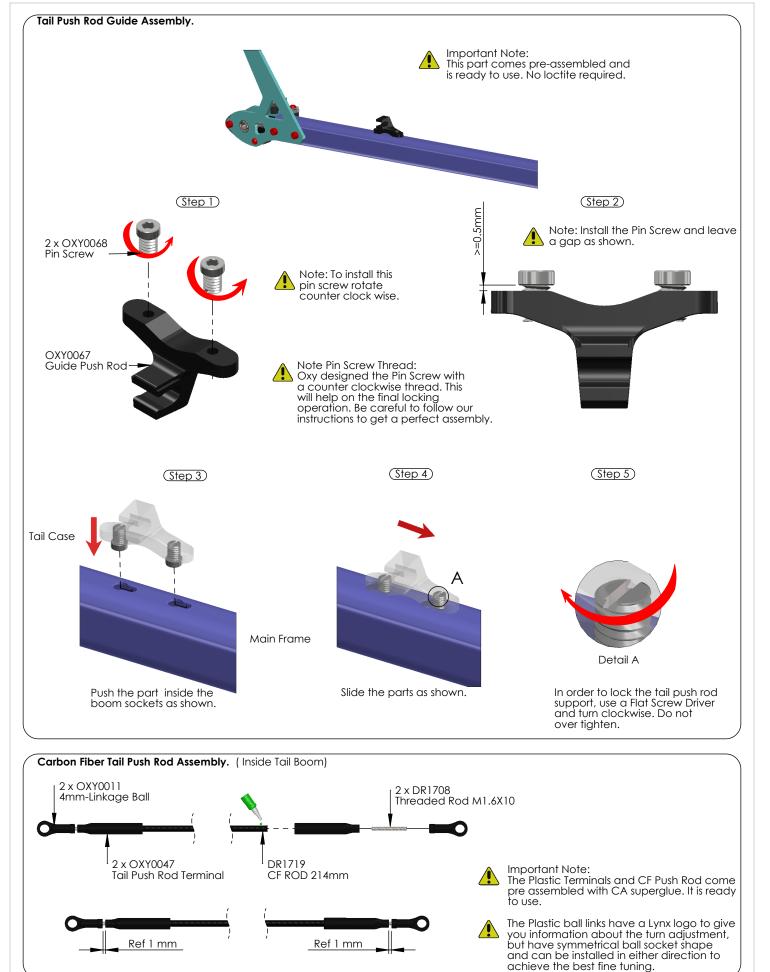


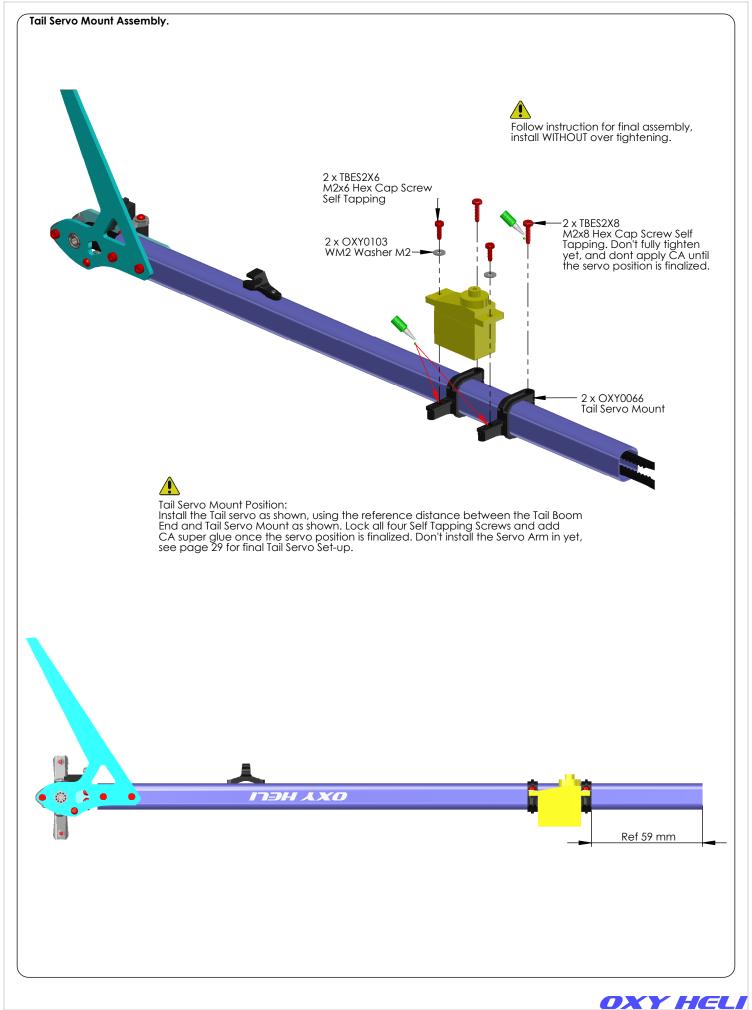


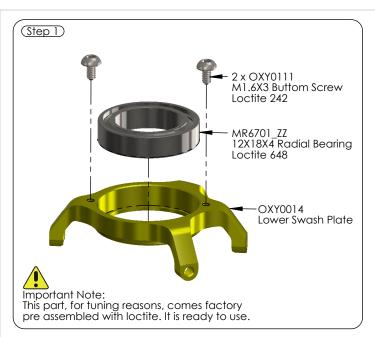


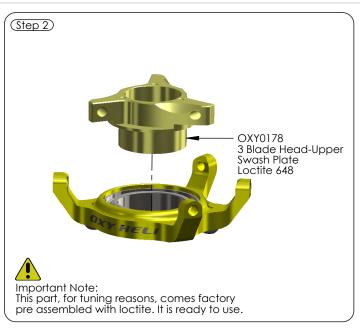




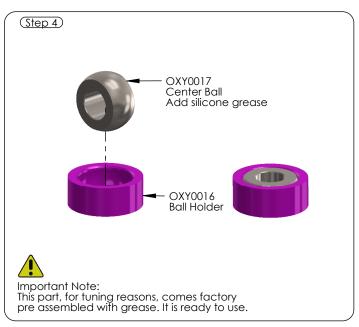


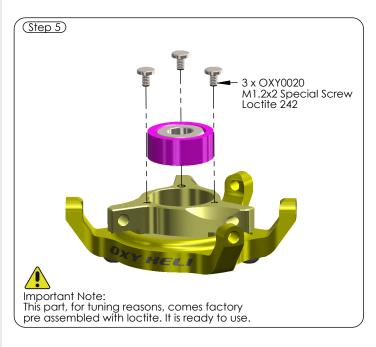


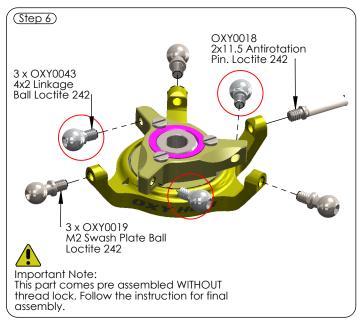




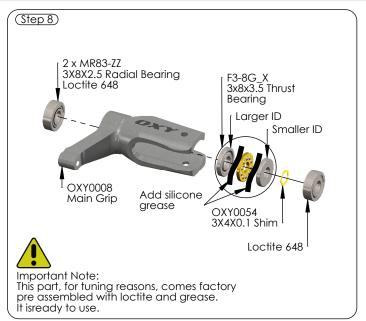


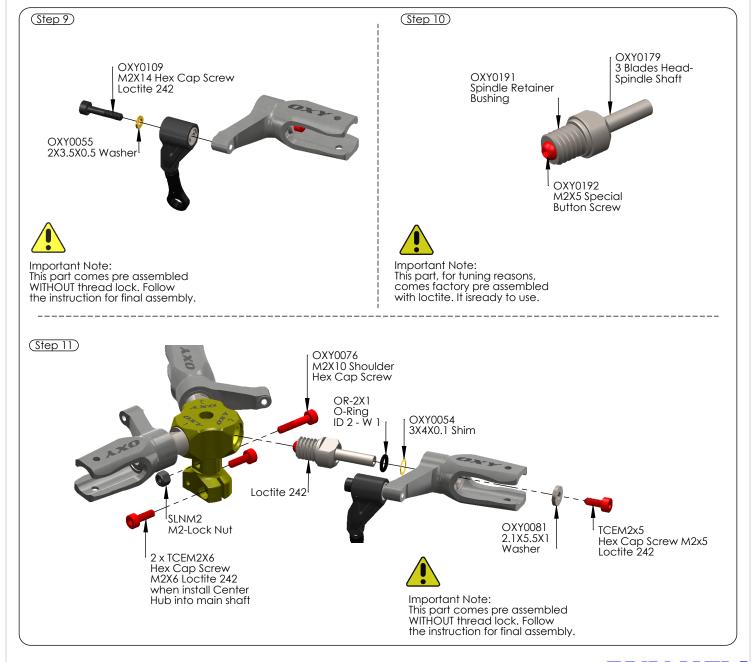


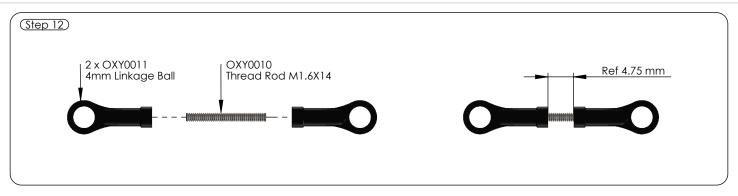


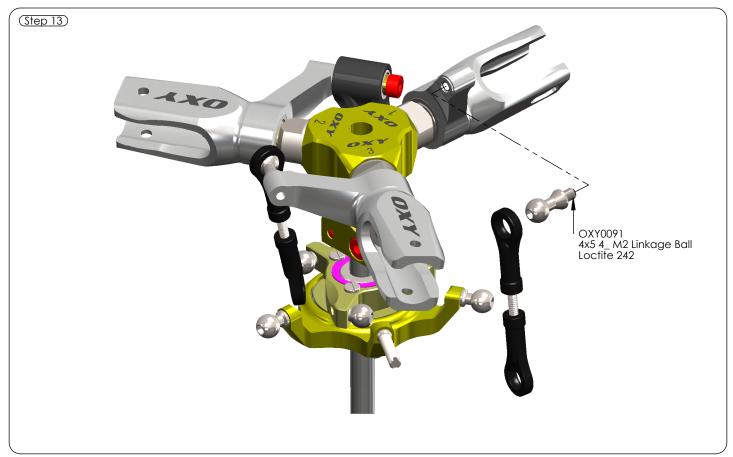


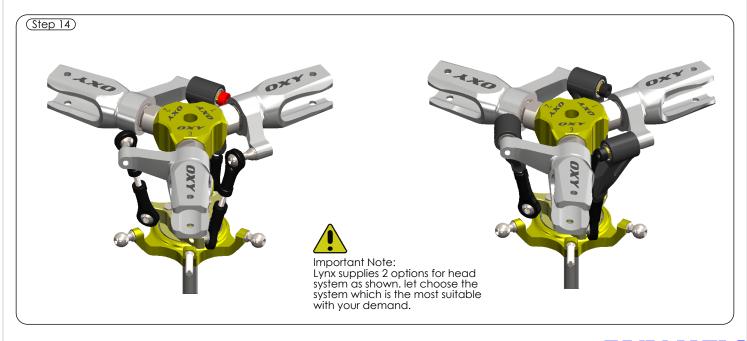


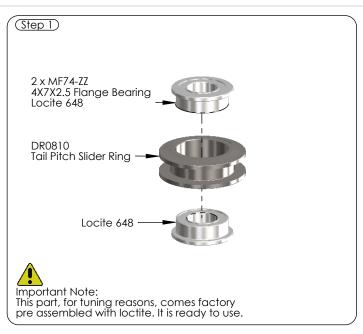


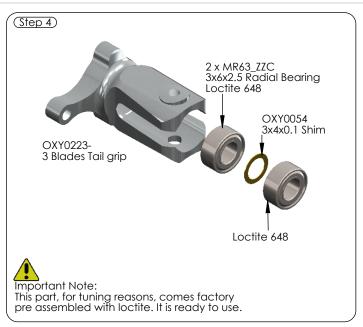


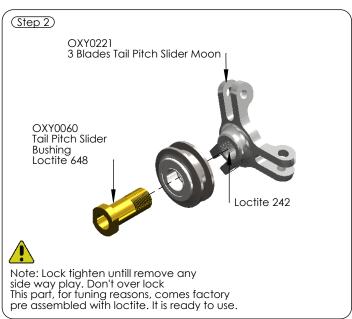


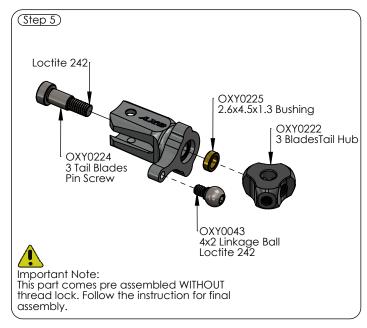


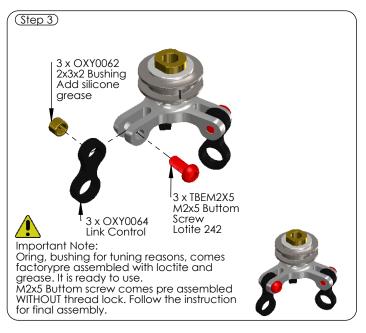


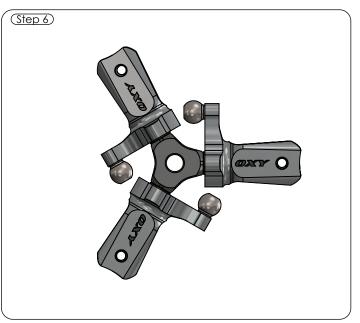








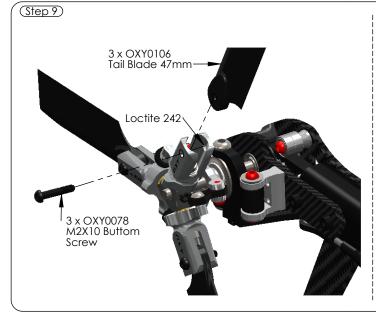




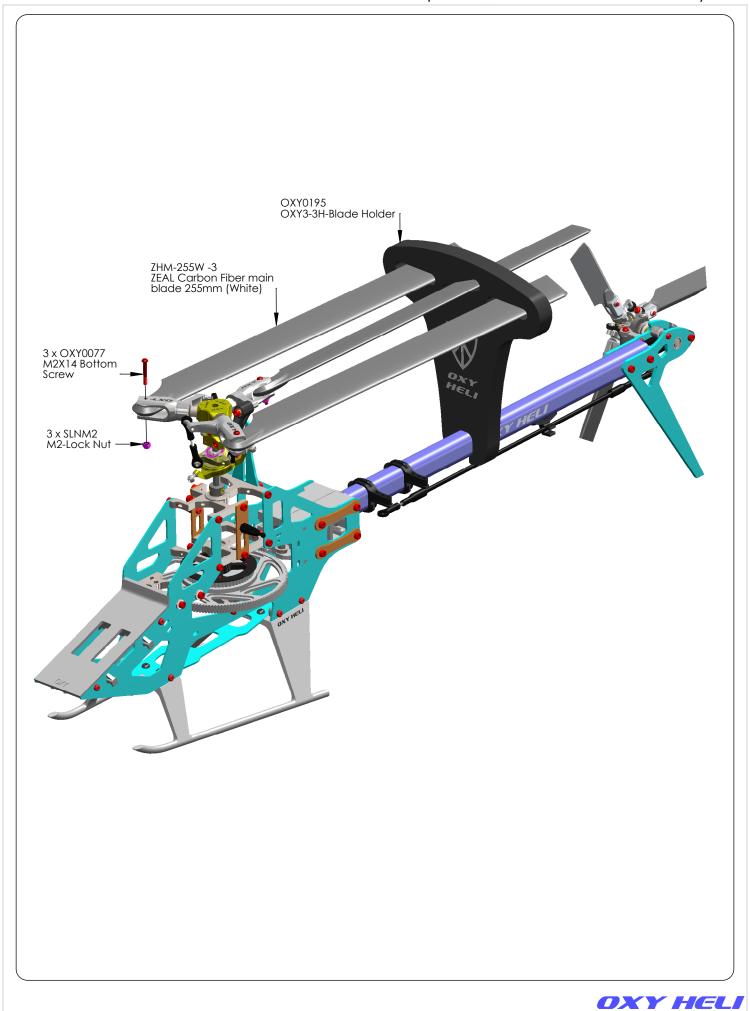




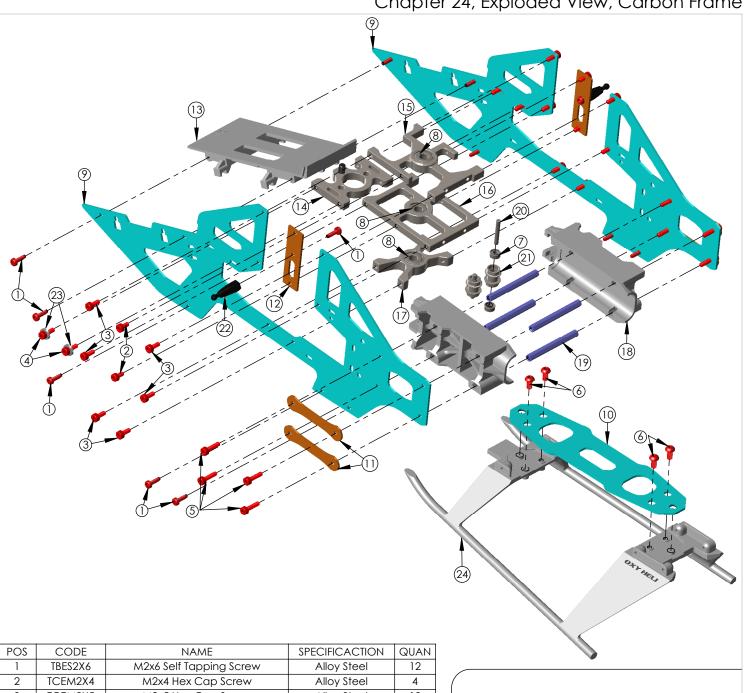




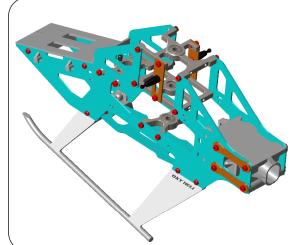




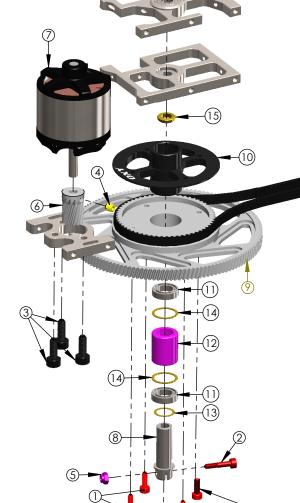
Chapter 24, Exploded View, Carbon Frame



POS	CODE	NAME	SPECIFICACTION	QUAN
1	TBES2X6	M2x6 Self Tapping Screw	Alloy Steel	12
2 TCEM2X4		M2x4 Hex Cap Screw	Alloy Steel	4
3	TCEM2X5	M2x5 Hex Cap Screw	Alloy Steel	12
4	TCEM2x6	M2x6 Hex Cap Screw	Alloy Steel	4
5	TCEM2X8	M2x8 Hex Cap Screw	Alloy Steel	8
6	TBEM2.5x5	M2.5x5Button Hex Cap Screw	Alloy Steel	4
7	MR52-W2	Radial Bearing 2x5x2	STD	4
8	MR104ZZ-W4	Radial Bearing 4x10x4	STD	3
9	OXY0030	Main Frame	CF 1mm	2
10	OXY0031	Bottom Plate	CF 1mm	1
11	OXY0034	Main Frame Stifferner	CF 1mm	4
12	OXY0033	Break Way Canopy Mount	CF 1mm	2
13 OXY0035		Battery Tray	POM	1
14	OXY0029	Motor Mount	6061-T6	1
15	OXY0026	Upper Main Shaft Bearing Block	6061-T6	1
16	OXY0027	Middle Main Shaft Bearing Block	6061-T6	1
17	OXY0028	Lower Main Shaft Bearing Block	6061-T6	1
18	OXY0002	Boom Clamp	POM	2
19	OXY0022	Lock Rod	6061-T6	4
20 OXY0023 21 OXY0024 22 OXY0025		2x13.5 Pin	SST	2
		Pulley Guide	POM	2
		Canopy Mount	POM	2
23	OXY0081	2X5.5X1 Washer	SST	4
24	OXY0036	Landing Gear	POM	1



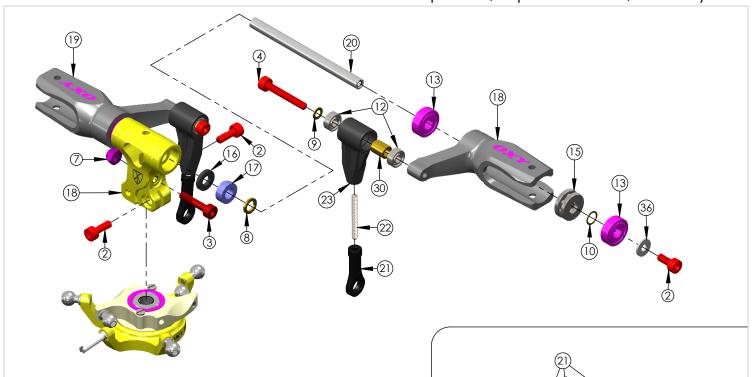
Chapter 24 Exploded View, Tranmission Assembly



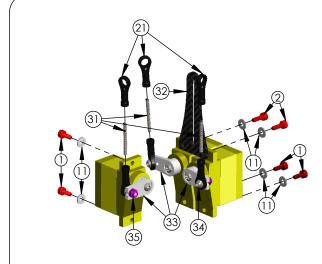


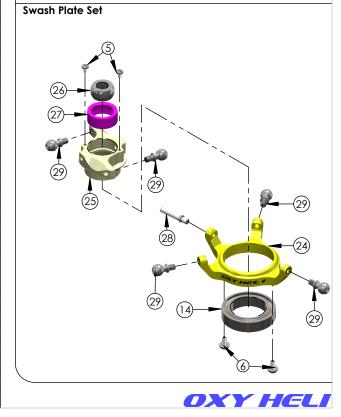
POS	COD	Name	Specification	Quantity
1	TCEM2X6	M2x6 Hex Cap Screw	Alloy Steel	4
2	OXY0076	M2x10 Hex Cap Screw	Alloy Steel	1
3	TCEM3X8	M3x8 Hex Cap Screw	Alloy Steel	3
4	SCM3X3	M3X3 Set Screw	Alloy Steel	3
5	SLNM2	Self Lock Nut M2	Alloy Steel	1
6	OXY0104	Pinion 10t- M0.5 - 3.17 Motor Shaft	Steel	1
	OXY0094	Pinion 11t- M0.5 - 3.17 Motor Shaft	Steel	1
	OXY0095	Pinion 12t- M0.5 - 3.17 Motor Shaft	Steel	1
	OXY0096	Pinion 13t- M0.5 - 3.17 Motor Shaft	Steel	1
	OXY0042	Pinion 14t- M0.5 - 3.17 Motor Shaft	Steel	1
	OXY0086	Pinion 15t- M0.5 - 3.17 Motor Shaft	Steel	1
7		LX8005 - EOX Motor 2214-3S-4100KV		1
8	OXY0041	One Way Sleeve	C40	1
9	OXY0001	Main Gear	PA66	1
10	OXY0037	Main Pulley Flange	6061-T6	1
11	MR104ZZ-W4	Radial Bearing 6X10X2.5	STD	2
12	HF0612	One Way Bearing 6X10X12	STD	1
13	OXY0040	Shim Washer 6.1X8X0.1	Brass	1
14	OXY0039	Washer 8x10x0.2	Brass	2
15	OXY0038	Auto Rotation Spacer	Brass	1
16		Timing Belt - B390MXL - 3MM Thickness		1
17	OXY0004	Main Shaft Lock Ring	SUS 304	1
18	8 OXY0003 Main Shaft		Hard Steel	1

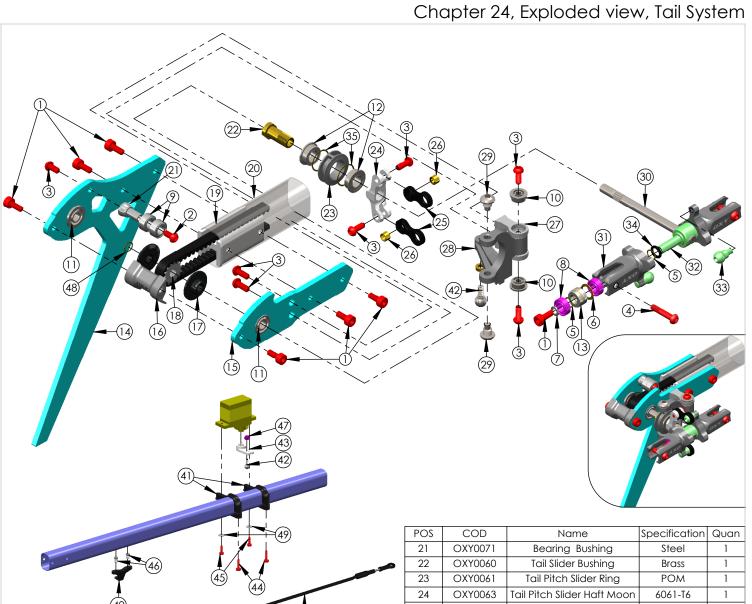
Chapter 24, Exploded View, Head System



POS	COD Name Speci		Specification	Quantity
1	TCEM2X5	2X5 M2x5 Hex Cap Screw All		4
2	TCEM2X6	M2x6 Hex Cap Screw	Alloy Steel	6
3	OXY0076	M2X10 Hex Cap Screw	Alloy Steel	1
4	TCEM2X14	M2x14 Hex Cap Screw	Alloy Steel	2
5	OXY0020	M1.2x2 Special Screw	SST	2
6	OXY0111	M1.6X3 Button Head Screw	Alloy Steel	2
7	SLNM2	Self Lock Nut M2 Alloy Steel		1
8	OXY0137	3.1x5x0.6 Washer	Brass	2
9	OXY0055	2x3.5x0.2 Washer	Brass	2
10	Oxy0054	3x4x0.1 Washer	Brass	2
11	WM2	WM2 Washer M2	SST	6
12	MR52-W2	Radial Bearing 2X5X2	STD	4
13	MR83_ZZ/W2.5	Radial Bearing 3X8X2.5	STD	4
14	MR6701_ZZ	Radial Bearing 12x18 H4	STD	1
15	F3-8G_X	thrust bearing 3x8 h3.5	STD	2
16	OXY0110	Rubber Dampener Rubbe		2
17	OXY0079	Dampener Bushing POM		2
18	OXY0005	Center Hub	6061-T6	1
19	19 OXY0008 Main Grip		6061-T6	2
20	OXY0007 Spindle Shaft		SS420	1
21	OXY0011	4mm-linkage ball	POM	8
22	2 OXY0010 Thread Rod M1.6 X		SST	2
23	OXY0009	DFC Arm	POM	2
24	OXY0014	Lower Swash Plate	6061-T6	1
25	OXY0015	Upper Swash Plate	6061-T6	1
26	OXY0017	Center Ball	SST	1
27	OXY0016	Ball Holder	POM	1
28	OXY0018	Antirotation Pin	Steel	1
29	OXY0019	Swash Plate Ball	Steel	5
30	0 OXY0012 2x3.7x4.4 Bushing		Brass	2
31	OXY0010	OXY0010 Servo Rod M1.6x14 Ste		3
32	OXY0032	Anti-Rotation Guide	CF 1.5 mm	1
33	OXY0085	Servo Arm	POM	3
34	OXY0092	4X2X4.2 M2 Linkage Ball	SST	3
35		Hex Nut M2	Alloy Steel	3
36	OXY0081	2.1X5.5X1 Washer	Brass	2







POS	COD	Name	Specification	Quan
1	TCEM2x5	M2x5 Hex Cap Screw	Alloy Steel	8
2	TBEM2X4	M2x4 Button Screw	Alloy Steel	1
3	TBEM2X5	M2x5 Button Screw	Alloy Steel	7
4	OXY0078	M2X10 Buttom Screw	Alloy Steel	2
5	OXY0054	3x4x0. 1 Shim Washer	Brass	4
6	OXY0053	4.2X6X0.2 Washer	Brass	2
7	OXY0055	2X3.5 W 0.5 Shim Washer	SST	2
8	MR63-W2	Radial Bearing 3X6X2	STD	4
9 MR63_ZZC		Radial Bearing 3X6X2.5	STD	2
10	MF682ZZ	Flange_Bearings_2x5x2.3	STD	2
11 MF73_ZZ/W3 12 MF74-ZZ		Flange_Bearings_3x7x3	STD	2
		Flange_Bearings_4x7x2.5	STD	2
13	F3-6G-W3.5	Thrust Bearing 3x6 W3.5	STD	2
14	OXY0069	Vertical Fin Block	CF 2mm	1
15 OXY0070		Tail Case Bearing Block	CF 2mm	1
16	16 OXY0072 Tail Case Cover		POM	1
17	OXY0046 Flange Tail Pulley		POM	2
18 OXY0045		15T Tail Pulley	6061-T6	1
19	19 OXY0073 Tail Case Center		6061-T6	1
20	OXY0065	Square Boom 11X14X0.5X284	6061-T6	1

	POS	COD	Name	Specification	Quan
	21	OXY0071	Bearing Bushing	Steel	1
	22 OXY0060 Tail:		Tail Slider Bushing	Brass	1
	23	23 OXY0061 Tail Pitch Slider Ring		РОМ	1
	24	OXY0063	Tail Pitch Slider Haft Moon	6061-T6	1
	25	OXY0064	Link Control	РОМ	2
	26	OXY0062	Bushing 2 X 3 H2	Brass	2
	27	OXY0058	Bell Crank Arm	6061-T6	1
	28	OXY0056	Tail Bell Crank	POM	1
	29	OXY0057	Tail Pin Screw	Steel	2
	30	OXY0044	Tail Shaft	SST	1
	31	OXY0051	Tail Grip	6061-T6	2
	32	OXY0049	Tail Hub	SST 304	1
	33	OXY0050	Linkage Ball 4 X 3 M2	SST	2
34		OR-2X1	O-RING ID 2 - W 1	Rubber	2
	35	OXY0139	Shim 7x8x0.1	Brass	2
	36	OXY0048	CF Rod 170 mm	CF	1
	37	37 OXY0047 Tail Push Rod Terminal		РОМ	1
	38	OXY0010	Thread Rod M1.6X14	SST	1
	39	OXY0011	4 mm Linkage Ball	РОМ	2
	40	OXY0067	Guide Push Rod	РОМ	1
	41	OXY0066	Tail Servo Mount	РОМ	2
	42	OXY0092	4X2X4.2 M2 Linkage Ball	SST	1
	43	OXY0085	Servo Arm	РОМ	1
	44	TBES2X8	M2x8 Self Tapping Screw	Alloy Steel	2
	45	45 TBES2X6 M2x6 Self Tapping Screen		Alloy Steel	2
	46	46 OXY0068 Pin Screw		SST	2
	47	47 Hex Nut M2		Alloy Steel	1
	48	OXY0054	Shim 3x4x0.1	Brass	1
	49	WM2	WM2 Washer M2	SST	2
		•			



SP-OXY3-001 - OXY3 - Carbon Steel Main Shaft, 2PC



- 2 x Main Shaft 1 x Main Shaft Lock Ring 4 x M2X10 Shoulder Hex Cap Screw 2 x Set Screw M3X3
- 4 x M2-Lock Nut

SP-OXY3-004 - OXY3 - Dampeners, 2 Set



- 4 x Damper Bushing
- 4 x Rubber Dampener 4 x 3x4x0. 1 Shim Washer
- 2 x 3.1X5X0.6 Washer

SP-OXY3-007 - OXY3 - DFC Linkage, 2 Set



4 x Thread Rod M1.6 X 14 8 x 4mm Linkage Ball

SP-OXY3-002 - OXY3 - Center Hub



- 1 x Center Hub
- 1 x M2X10 Shoulder Hex Cap Screw
- 1 x M2-Lock Nut
- 2 x M2x6 Hex cup screw

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



- 2 x Hardened Steel Spindle Shaft
- 2 x 2.1X5.5X1 Washer
- 2 x M2x6 Hex Cup Screw

SP-OXY3-005 - OXY3 - Main Grip, Set



- 2 x Main Grip 4 x MR83_ZZ-3x8x2.5 Radial Bearing 2 x 3x8x3.5 Thrust Bearing 2 x 3x4x0. 1 Shim Washer

- 2 x M2X14 Shoulder Buttom Cap Screw
- 2 x M2-Lock Nut

SP-OXY3-008 - OXY3 - Swashplate



- 1 x Lower Swash Plate
- 1 x Upper Swash Plate
- 1 x Radial Bearing 12x18 H4
- 1 x Ball Holder
- 1 x Center Ball
- 1 x 2x11.5 Antirotation Pin
- 7 x Inner Swash Plate Linkage Ball
- 2 x M1.6X3 Buttom Screw 2 x M1.2x2 Special Screw

SP-OXY3-006 - OXY3 - DFC Arm, Set



- 2 x DFC Arm 4 x 2X5X2 Radial Bearing 2 x Thread Rod M1.6 X 14 2 x 4MM Linkage Ball 2 x DFC Arm Spacer 2 x 2x3.5x0.5 Shim Washer 2 x M2X14 Shoulder Hex Cap Screw

SP-OXY3-009 - OXY3 - Swashplate - Service Bag



- 1 x Ball Holder
- 1 x Center Ball 1 x 2X11.5 Antirotation Pin
- 7 x Inner Swash Plate Linkage Ball
- 2 x M1.6X3 Buttom Screw 2 x M1.2x2 Special Screw



Shaft Bearing Block

1 x Upper Main Shaft Bearing Block

1 x Radial Bearing 4x10 W4 3 x Washer M2

5 x M2x5 Hex Cup Screw

2 x M2x6 Hex Cup Screw 2 x M2X4 Hex Cup Screw

Shaft Bearing Block



1 x Middle Main Shaft Bearing Block 1 x Radial Bearing 4x10 W4

3 x WM2 Washer M2

7 x Hex Cup Screw M2x5

2 x M2X4 Hex Cup Screw

Shaft Bearing Block



1 x Lower Main Shaft Bearing Block 1 x Radial Bearing 4x10 W4

4 x Hex Cup Screw M2x5

SP-OXY3-010 - OXY3 - Upper Main | SP-OXY3-011 - OXY3 - Middle Main | SP-OXY3-012 - OXY3 - Lower Main | SP-OXY3-013 - OXY3 - Motor Mount



1 x Motor Mount 4 x 2X5.5X1 Washer

4 x M2x6 Hex Cup Screw

3 x M3X8 Hex Cup Screw

SP-OXY3-014 - OXY3 - Plastic Canopy Mount, 2 Set



4 x Plastic Canopy Mount 2 x M2x6 Hex Cup Screw Self **Tapping**

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



4 x Battery Oring

SP-OXY3-016 - OXY3 - Battery Tray Set



1 x Battery Tray 2 x Battery Oring

4 x M2x6 Hex Cup Screw Self

Tapping

SP-OXY3-017 - OXY3 - One Way **Hub Assembly**



1 x Main Gear Hub

1 x 6X10X12-One Way Bearing 2 x 6X10X2.5 Radial Bearing 2 x 8x10x0.2 Shim

4 x M2X6 Hex Cap Screw

SP-OXY3-018 - OXY3 - One Way Sleeve Set



2 x 6X8X0.1 Shim 1 x One Way Sleeve

1 x Auto Rotation Spacer

x M2-Lock Nut

1 x M2X10 Hex Cap Screw

SP-OXY3-019 - OXY3 - Main Gear,



2 x Main Gear 4 x M2X6 Hex Cap Screw SP-OXY3-020 - OXY3 - Boom Mount, Set



2 x Boom Clamp

4 x Lock Rod

8 x M2X8 Hex Cap Screw

4 x Stiffener

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



4 x Lock Rod 8 x M2X8 Hex Cap Screw

SP-OXY3-022 - OXY3 - Belt Pulley Guide, Set



2 x 2X13.5 Pin 2 x Pulley Guide 4 x 2X5X2 Radial Bearing SP-OXY3-049 - OXY3 - Main Frame, 2 PC



2 x OXY0030 - Main Frame

SP-OXY3-050 - OXY3 - Anti **Rotation Guide**



1 x Antirotation Guide

SP-OXY3-051 - OXY3 - Break Away Canopy Plate



2 x Break Away Canopy Mount

SP-OXY3-046 - OXY3 - Timing Belt - B390MXL



1 x Timing Belt - B390MXL - 3MM Thickness 1 x OXY3 FRONT BOOM INSERT SP-OXY3-052 - OXY3 - Swashplate **Leveler Tool**



1 x OXY3 SWASH PLATE -PITCH LEVELER TOOL

SP-OXY3-056 - OXY3 - Landing Gear, 2 Pc



2 x Landing Gear 1 x Bottom Plate

6 x M2x6 Self Tapping Screw 4 x Bottom Screw M2.5x5

SP-OXY3-037 - OXY3 - Servo Linkage, 2 Set



6 x Thread Rod M1.6 X 18 12 x 4MM Linkage Ball



SP-OXY3-023 - OXY3 - Tail Rotor **Assembly**



- 1 x Tail Hub
- 2 x O-Ring ID2 W1 2 x 3X4X0.1 Shim

- 2 x Tail Grip 4 x 3X6X2 Radial Bearing
- 2 x 4.2X6X0.2 Shim
- 2 x 3X6X3.5 Thrust Bearing
- 2 x 3X4X0.1 Shim
- 2 x 4X3XM2 Ball
- 2 x 2X3.5X0.5 Washer
- 2 x M2X5 Hex Cap Screw
- 2 x M2X10 Buttom Screw
- 1 x M3X3 Set Screw

SP-OXY3-030 - OXY3 - Tail Case **Bearing Block Assembly**



- 1 x Tail Case Bearing Block
- 1 x 3X7X3 Flange Bearing
- 2 x M2X5 Hex Čap Screw

- SP-OXY3-027 OXY3 Tail Pitch



- 2 x 4X7X2.5 Flange Bearing 2 x 7X8X0.1 Shim
- 1 x Tail Pitch Slider Half Moon 1 x Tail Pitch Slider Bushing
- 2 x 2X3X2 Bushing 2 x Link Control

Slider

- 2 x M2X5 Buttom Screw

SP-OXY3-031 - OXY3 - Vertical Fin



- 1 x Vertical Fin
- 1 x Verlicai riii 1 x 3X7X3 Flange Bearing 2 x M2X5 Hex Cap Screw 1 x OXY0135 Sticker Yellow 1 x OXY0136 Sticker Orange

A

SP-OXY3-035 - OXY3 - Tail Push Rod SP-OXY3-045 - OXY3 - Tail Servo

2 x Tail Servo Mount 2 x M2X6 Self Tapping Screw 2 x M2X8 Self Tapping Screw



2 x Washer M2

1 x Tail Case Cover

2 x M2X5 Hex Cap Screw

- 1 x CF Rod 170MM
- 2 x Tail Push Rod Termial 2 x Thread Rod M1.6X14
- 2 x 4MM Linkage Ball 2 x Pin Screw
- 1 x Guide Push Rod

SP-OXY3-024 - OXY3 - Tail Rotor Hub - Spare Part



- 1 x Tail Hub
- 2 x O-Ring ID2 W1 2 x 3X4X0.1 Shim
- 2 x 2X3.5X0.5 Washer 2 x M2X5 Hex Cap Screw
- 2 x M2X10 Buttom Screw
- 1 x M3x3 Set Screw

SP-OXY3-028 - OXY3 - Tail Pitch



Slider - Service Bag



2 x TBEM2X5 - M2X5 Buttom Screw



- 2 x 2X3X2 Bushing

SP-OXY3-032 - OXY3 - Tail Case



- 2 x Link Control



1 x Tail Shaft

Service Bag

2 x 4X3XM2 Ball

2 x 4.2X6X0.2 Shim

2 x 3X4X0.1 Shim

1 x M3x3 Set Screw

4 x 3X6X2 Radial Bearing

2 x 3X6X3.5 Thrust Bearing

2 x M2X10 Buttom Screw

- 1 x 14T Tail Pulley 2 x Flange Tail Pulley
- 4 x 3X4X0.1 Shim

SP-OXY3-033 - OXY3 - Tail Bell

SP-OXY3-025 - OXY3 - Tail Rotor -



- 1 x Tail Bell Crank
- 2 x Tail Pin Screw

2 PC

- 2 x M2X5 Buttom Screw
- 1 x 4X2X4.2 M2 Linkage Ball
- SP-OXY3-047 OXY3 Tail Boom,



2 x Square Boom 11X14X0.5

SP-OXY3-026 - OXY3 - Bell Crank Support



- 1 x Bell Crank Support
- 2 x 2X5X2.3 Flange Bearing 2 x M2X5 Bottom Screw

SP-OXY3-029- OXY3 - Tail Shaft 14T SP-OXY3-080 - OXY3 - Tail Shaft 15T



- 1 x Tail Shaft
- 1 x 15T Tail Pulley
- 2 x Flange Tail Pulley 4 x 3X4X0.1 Shim

SP-OXY3-034 - OXY3 - Tensioner Tail Bell



- 1 x Bearing Bushing 2 x Radial Bearing 3X6X2.5 1 x M2X4 Buttom Screw
- 1 x M2X5 Buttom Screw

SP-OXY3-048 - OXY3 - Tail Case Hub



- 1 x Tail Case Center
- 4 x M2X5 Hex Cap Screw

Set

				er 25, Spare Parts
SP-OXY3-036 - OXY3 - Servo Arm Set, 4 PC	SP-OXY3-039 - OXY3 - Pinion 10T - Shaft 3.17	SP-OXY3-040 - OXY3 - Pinion 11T - Shaft 3.17	SP-OXY3-041 - OXY3 - Pinion 12T - Shaft 3.17	SP-OXY3-042 - OXY3 - Pinion 13T - Shaft 3.17
App.				
4 x OXY0085 - Servo Arm 4 x OXY0092 - 4X2X4.2 M2 Linkage Ball 4 x OXY0108 - M2 Hex Nut	1 x Pinion 10t- M0.5 - 3.17 Motor Shaft 1 x M3X3 Set Screw	1 x Pinion 11t- M0.5 - 3.17 Motor Shaft 1 x M3X3 Set Screw	1 x Pinion 12t- M0.5 - 3.17 Motor Shaft 1 x M3X3 Set Screw	1 x Pinion 13t- M0.5 - 3.17 Motor Shaft 1 x M3X3 Set Screw
SP-OXY3-043 - OXY3 - Pinion 14T - Shaft 3.17	SP-OXY3-044 - OXY3 - Pinion 15T - Shaft 3.17	SP-OXY3-053 - 10mm Electronic Hook & Loop, 2 PC	SP-OXY3-054 - OXY3 - Battery Hook & Loop, 2 Set	SP-OXY3-055 - OXY3 - Double Side Adhesive Tape, 2PC
1 x Pinion 14t- M0.5 - 3.17 Motor Shaft 1 x M3X3 Set Screw	1 x Pinion 15t- M0.5 - 3.17 Motor Shaft 1 x M3X3 Set Screw	2 x 10mm Electronic Hook& Loop	2 x 10mm Electronic Hook & Loop	2 x Double Side Adhesive Tape 25mmX50mm
SP-OXY3-057 - OXY3 - Cable Ties Set	SP-OXY3-058-8 - OXY3 - Tail Blade 47mm - White		SP-OXY3-061 - OXY3 - Motor EOX 2214-4100KV V2	SP-OXY3-062 - OXY 3 ESC 40A Hobbywing
15 x Cable Tie 3X100mm 5 x Cable Tie 3x60mm	2 x OXY0106 - Tail Blade 47mm	2 x OXY0101 - Tail Blade 50mm	1 x EOX 2214- OXY Edition 3 x M3x8 Bottom Screw	1 x ESC Hobbywing
SP-OXY3-063 - Canopy SCHEMA #1	SP-OXY3-065 - Canopy Grommet, 4 PC	ZHM-255W - ZEAL Carbon Fiber main blade 255mm (White)	SP-OXY3-066 - Main Grip Service Bag	SP-OXY3-067 Main Shaft Bearing Block - Service Bag
			9999	900
1 x Canopy Original	4 x Canopy Grommet	2 x Zeal Blades 255mm	4 x MR83_ZZ-3x8x2.5 Radial Bearing 2 x 3x8x3.5 Thrust Bearing 2 x 3x4x0. 1 Shim Washer 2 x M2X14 Shoulder Buttom Cap Screw 2 x M2-Lock Nut	3 x Radial Bearing 4x10 W4
SP-OXY3-078 Non DFC System	SP-OXY3-079 Non DFC Spare Parts			
2 x Follower Arm 2 x Uniball Radius Arm 2 x Pin 1.5X9.6 2 x M2X12 Hex Cap Screw 4 x 2X5X2.5 Radial Bearing 2 x Follower Arm Bushing 2 x 2x3.5x0.5 Shim Washer 2 x M2 Swash Plate Ball 2 x 4x5 4_ M2 Linkage Ball 2 x Thread Rod M1.6 X 14	2 x Follower Arm 2 x Uniball Radius Arm 2 x Pin 1.5X9.6 2 x M2X12 Hex Cap Screw 4 x 2X5X2.5 Radial Bearing 2 x Follower Arm Bushing 2 x 2x3.5x0.5 Shim Washer			
4 x 4mm-Linkage Ball	2 x 4x5 4_ M2 Linkage Ball			OXY HELI

Chapter 25, Spare Parts Stretch Tail Boom

SP-OXY3-106 Stretch-Tail Push Rod Spare



1 x DR1718 - Square Boom 11X14X0.5 LA

1 x DR1719 - CF Rod 214mm 2 x OXY0047 - Tail Push Rod Terminal 2 x DR1708 - Threaded Rod M1.6X10 2 x OXY0011 - 4mm Linkage Ball 1 x OXY0067 - Guide Push Rod

2 x OXY0068 - Pin Screw

SP-OXY3-108 Stretch-Tail Belt Spare



1 x DR0948 Tail Belt Stretch- B424MXL 1 x OXY3 FRONT BOOM INSERT

SP-OXY3-109 Stretch Combo - 285mm ZEAL CF Main Blade



1 x DR1718 - Square Boom 11X14X0.5 1 x OXY0067 - Guide Push Rod 2 x OXY0068 - Pin Screw 1 x DR0948 - Tail Belt Stretch - B424MXL 1 x ZHM-285 - Zeal Blade 285mm 1 x DR1719 - CF Rod 214mm 2 x OXY0011 - 4mm Linkage Ball 2 x DR1708 - Threaded Rod M1.6X10 2 x OXY0047 - Tail Push Rod Terminal

SP-OXY3-110 Stretch Combo - 3_285mm ZEAL CF Main Blade



- 1 x DR1718 Square Boom 11X14X0.5 1 x OXY0067 Guide Push Rod
- 2 x OXY0068 Pin Screw
- 1 x DR0948 Tail Belt Stretch B424MXL 1 x ZHM-NRG285C-3X ZEAL 3-Blade Carbon Fiber Main Blades 285mm (Neon Orange)
 1 x DR1719 - CF Rod 214mm
 2 x OXY0011 - 4mm Linkage Ball

- 2 x DR1708 Threaded Rod M1.6X10 2 x OXY0047 Tail Push Rod Terminal



SP-OXY3-088 OXY3 - QUBE Ultra Main Grip, 3PCS



- 3 x Main Grip

- 6 x MR83_ZZ-3x8x2.5 radial bearing 3 x 3x8x3.5 Thrust Bearing 3 x 3x4x0. 1 Shim Washer 3 x M2X14 Shoulder Buttom Cap Screw
- 3 x M2-Lock Nut

SP-OXY3-089 OXY3 -QUBE 3 Blade Center Hub



- 1 x 3 Blade Center Hub
- 1 x M2X10 Shoulder Hex Cap Screw 1 x M2-Lock Nut
- 2 x M2x6 Hex cup screw

SP-OXY3-090 OXY3 - QUBE 3 BLADE DFC ARM



- 3 x OXY3-3H DFC Arm 6 x 2X5X2 Radial Bearing
- 5 x Thread Rod M1.6 X 14 7 x 4MM Linkage Ball 2 x 4x5 4_M2 Linkage Ball

- 3 x DFC Arm Spacer 3 x 2x3.5x0.5 Shim Washer
- 3 x M2X14 Shoulder Hex Cap Screw

SP-OXY3-091 OXY3 -QUBE 3 BLADE Ultra Swashplate



- 1 x Lower Swash Plate 1 x 3 Blade Head-Upper Swash Plate 1 x Radial bearing 12x18 H4
- 1 x Ball Holder
- 1 X Center Ball
- 1 x 2x11.5 Antirotation Pin 6 X Inner Swash Plate Linkage Ball
- 2 x M1.6X3 Buttom Screw
- 2 x M1.2x2 Special Screw

SP-OXY3-092 OXY3 -QUBE 3 **Blade Spindle Shaft 3PCS**



- 3 x 3 Blade Head-Spindle Shaft 3 x Spindle Retainer Bushing 3 x M2X5 Special Buttom Screw 3 x Hex Cup Screw M2X5 3 x 2.1X5.5X1 Washer 3 x O-RING ID 2 W 1 3 x 3x4X0,1 Shim

SP-OXY3-093 OXY3-QUBE 3 Blade Holder



1 x OXY3-3H-Blade Holder 1

SP-OXY3-094 Double Open-End Wrench 5.5 x 7mm



1 x Double Open-End Wrench 5.5 x 7mm

ZHM-255W -3 ZEAL Carbon Fiber main blade 255mm (White)



3 x ZEAL Carbon Fiber main blade 255mm (White)



SP-OXY3-100 Qube 3 Blade Tail Pin Screw Set SP-OXY3-101 Qube 3 Blade Tail Pitch Slider Spare SP-OXY3-099 Qube 3 Blade SP-OXY3-098 Qube Ultra Tail Grip Spare - Set Tail Hub Spare 3 x 2.6X4.5X1.3 Bushing 3 x 3 Tail Blades Pin Screw 1 x Tail Pitch Slider Bushing 1 x Tail Pitch Slider Ring 1 x 3 Blades Tail Pitch Slider 3 x 3 Blades Tail Grip 1 x 3 BladesTail Hub 6 x 3x6x2.5 Radial Bearing 3 x 3X4X0.1 Shim 1 x M3X3 Set Screw 3 x 4X2 Linkage Ball 3 x M2X10 Buttom Screw Moon 3 x 2X3X2 Bushing 3 x Link Control 2 x 4X7X2.5 Flange Bearing 3 x M2X5 Buttom Screw SP-OXY3-102-3 3 X Tail SP-OXY3-102-13 X Tail SP-OXY3-102-4 3 X Tail SP-OXY3-102-2 3 X Tail Blade 47mm - Black Blade 47mm Orange Blade 47mm Yellow Blade 47mm Green 3 x Tail Blade 47mm - Black 3 x Tail Blade 47mm-Yellow 3 x Tail Blade 47mm-Green 3 x Tail Blade 47mm-Orange SP-OXY3-141-OXY3 - SPORT CANOPY #1 SP-OXY3-142-OXY3 -SP-OXY3-140-Main Frame, G10 black - 2PCS Plastic Main Blade 250mm 2 x OXY3-Main Frame, G10 black 1Set Plastic Main Blade, Orange 1 x Sport canopy **OXY HELI**