

### **VERY IMPORTANT NOTE:**

- Inside Box 02 you will find CD Rom Instructions Manual PDF format.
- Visit Oxy Heli web site www.oxyheli.com to verify the latest revision.
- In the same box you will also find the serial number card, Please take a moment to visit Oxy Heli web site and follow the instruction how to register your personal information and serial number.
- Is extremely important you take few minutes to register your helicopter and serial number with us. This is the only way to be in connection with us and receive news, promotion and technical tips.
- We will also extract 5 serial numbers each year that will win a discount coupon of 200 USD each to spend in Oxy Heli +or Lynx Heli web.
- Thanks you for your new purchase, we wish the best enjoyment with your new Oxy 3 Heli.

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### **SPECIFICATIONS**



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

- : 570mm (with 255mm blades).
- 255mm.
- : 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.

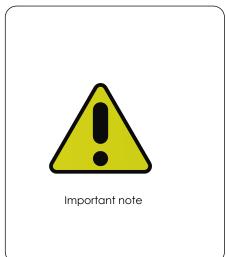
#### **SAFETY GUIDELINES.**

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.**

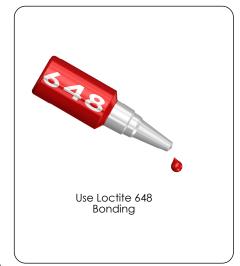
Please read this instruction manual fully before beginning assembly of this model helicopter. Be sure to use quality tools during the assembly process, and remember not to overtighten small fasteners. Note the following symbols which are used in this manual. Use thread lock sparingly where indicated.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

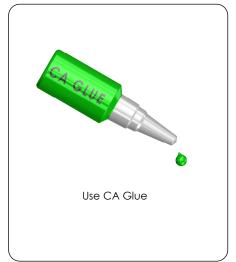
# ALL PRE ASSEMBLED PARTS HAVE NOT LOCK THREAD ON THE SCREW. IS MANDATORY READ AND FOLLOW CAREFULLY NOTES IN EACH ASSEMBLY DIAGRAMS STEP. WRONG ASSEMBLY OR LOCK THREAD MISSING WILL CAUSE FLY ISSUE OR INJURES.





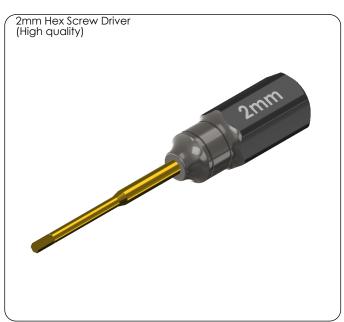


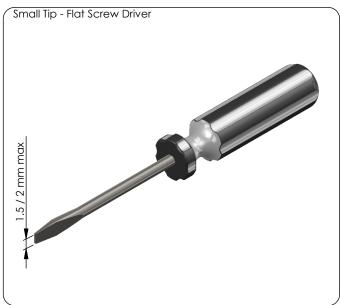


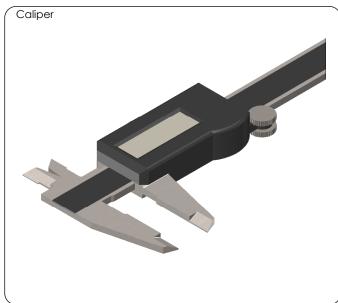


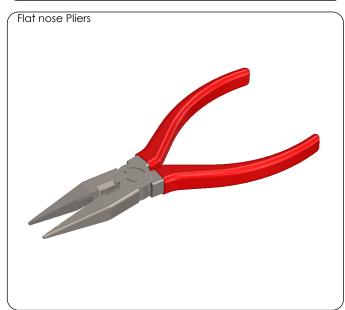


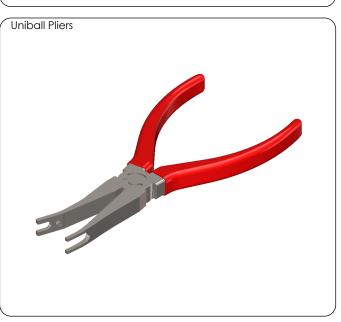


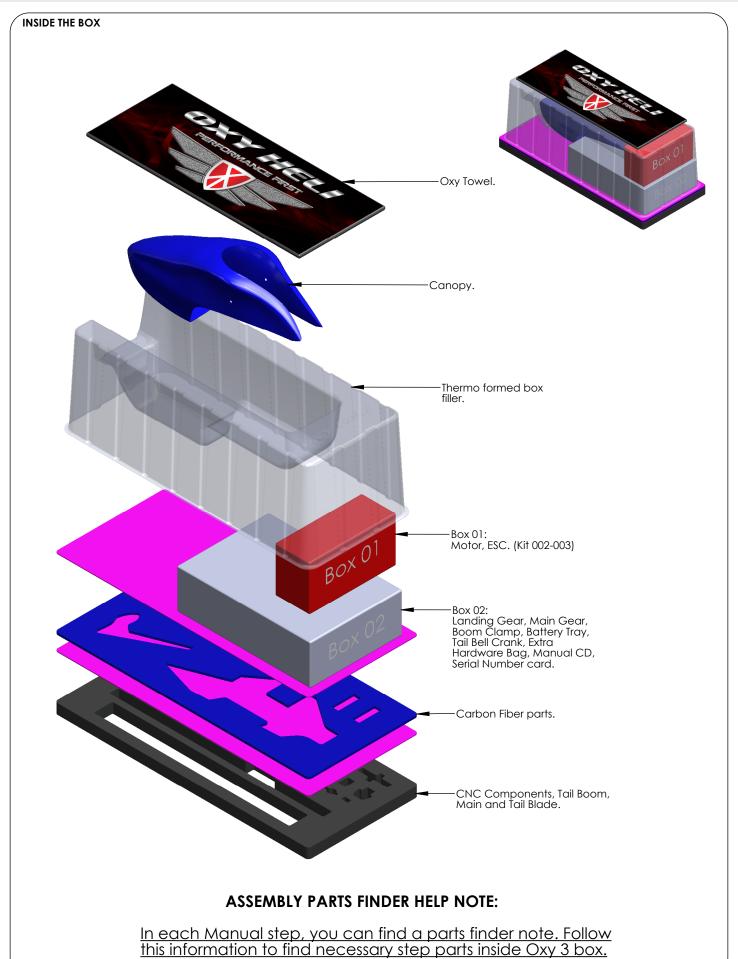


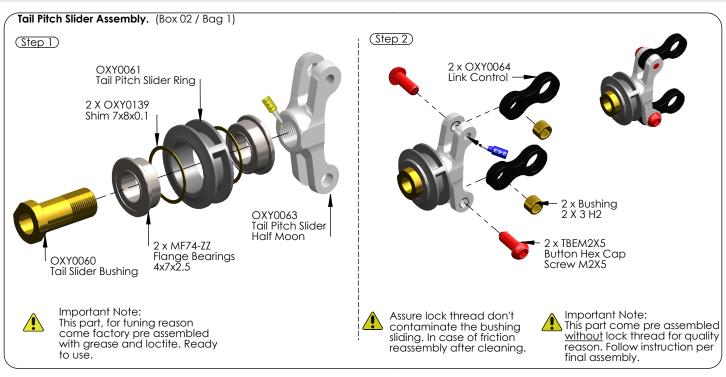


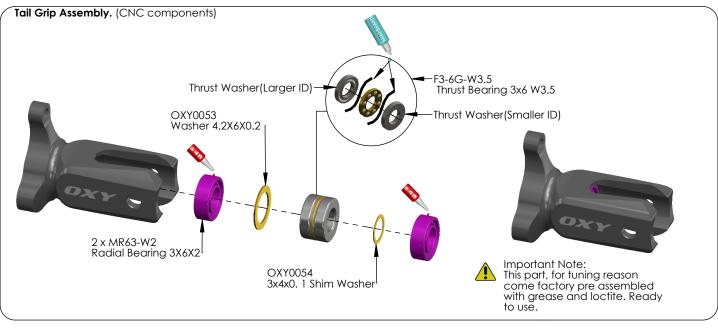


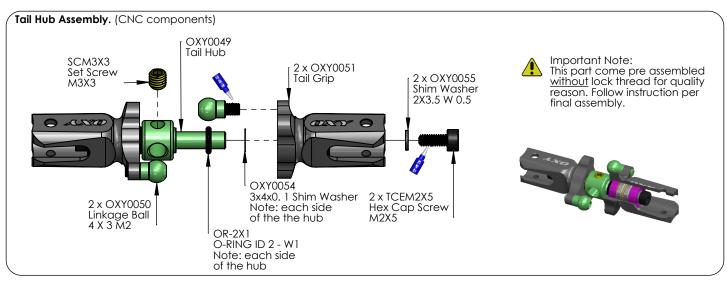




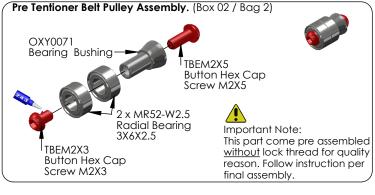


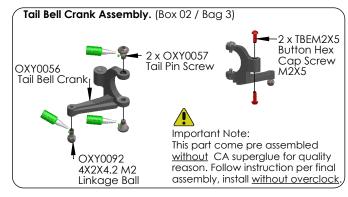


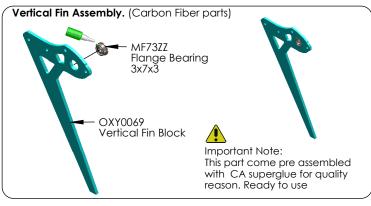


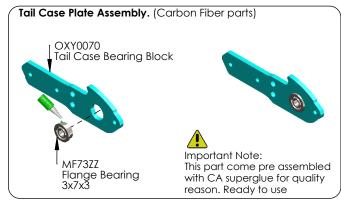


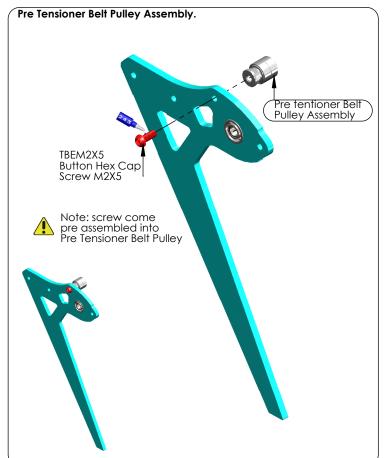


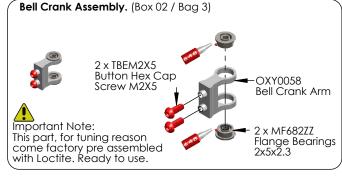


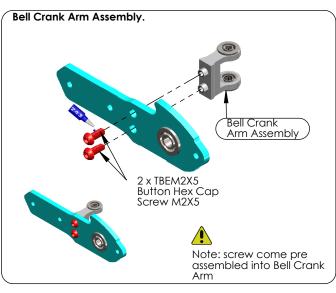


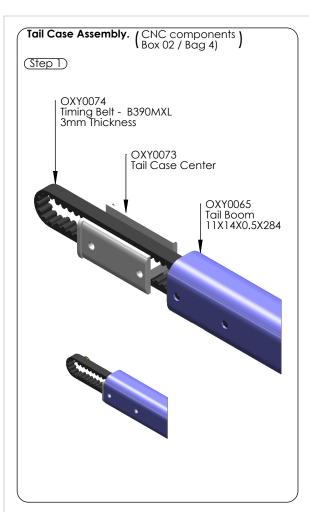


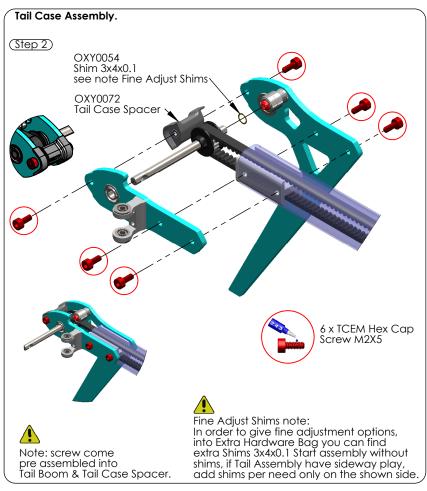


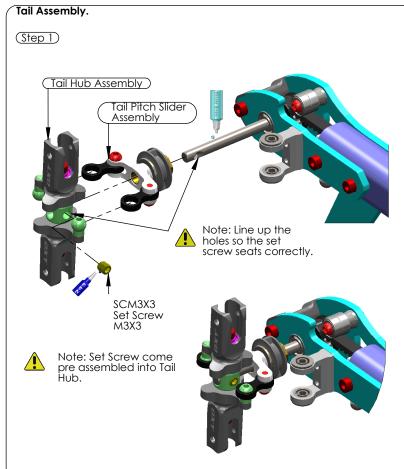


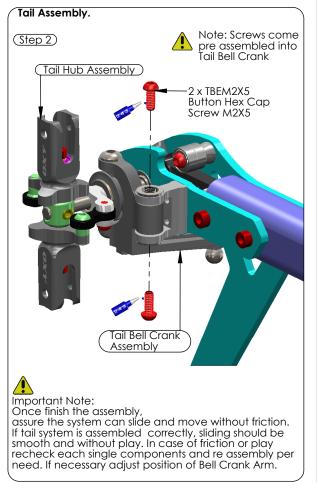


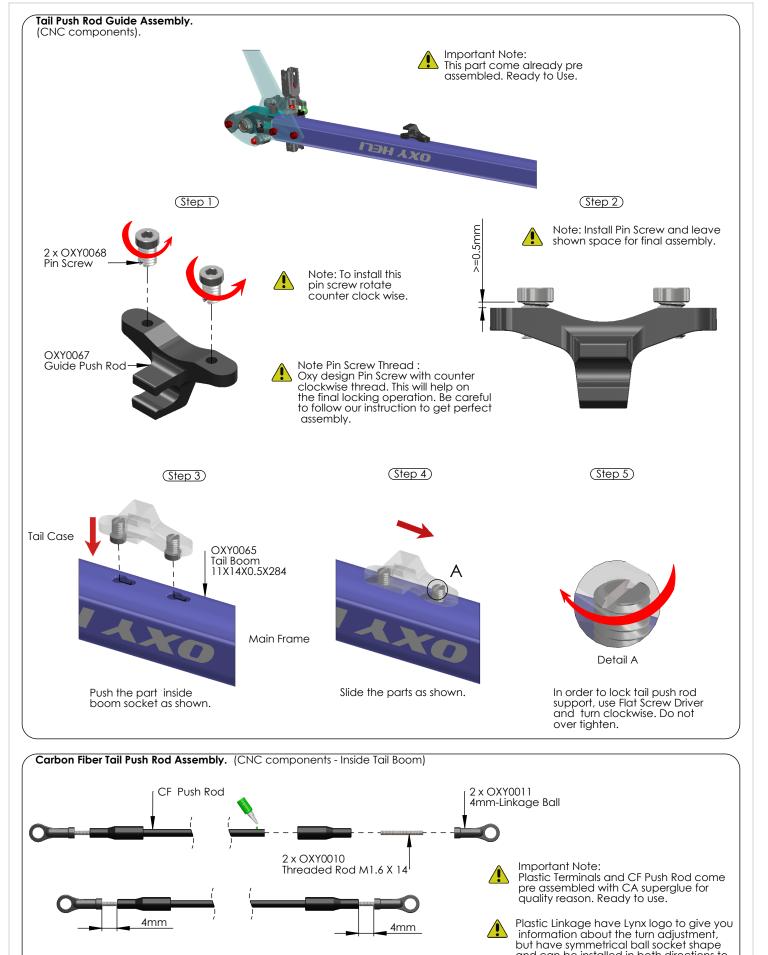




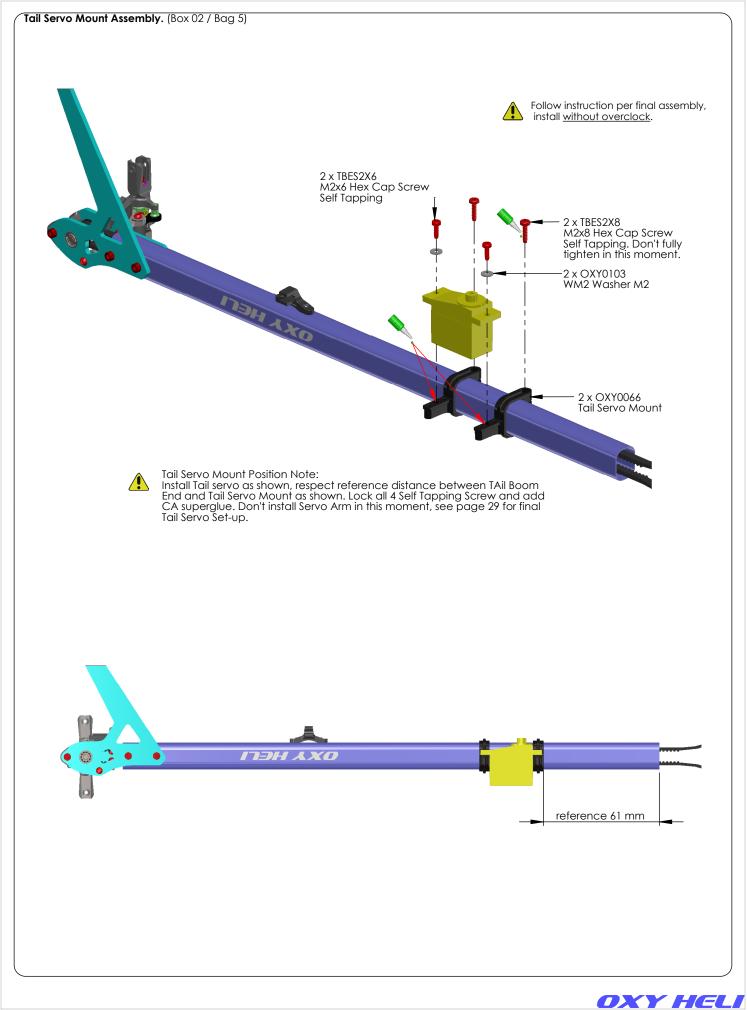


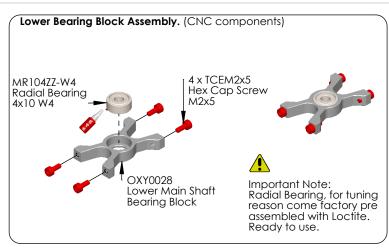


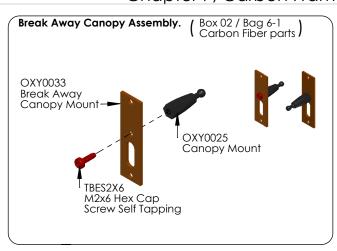


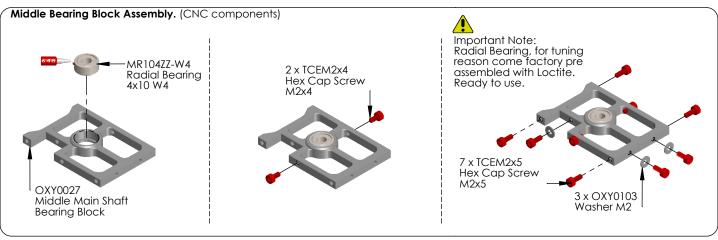


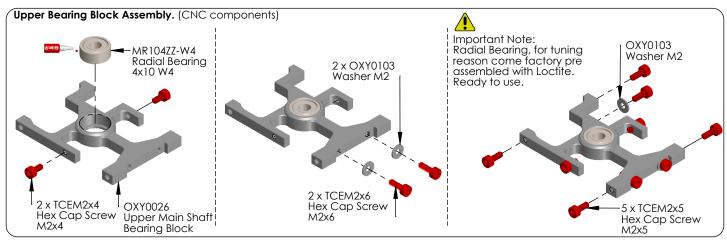
and can be installed in both directions to achieve the best fine tuning operation.

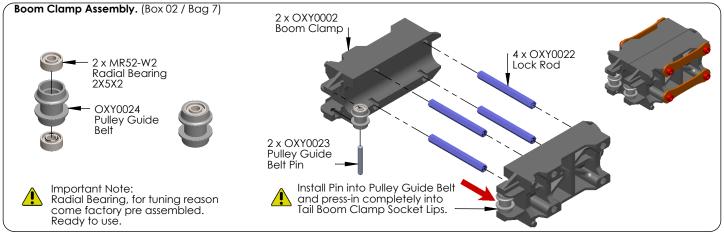


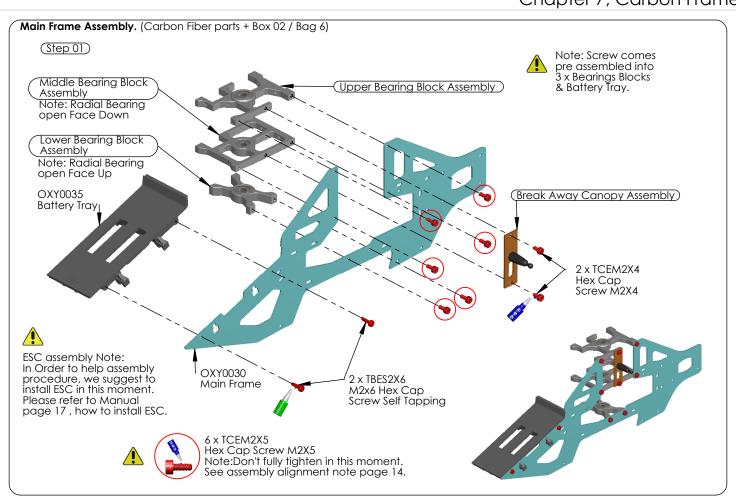


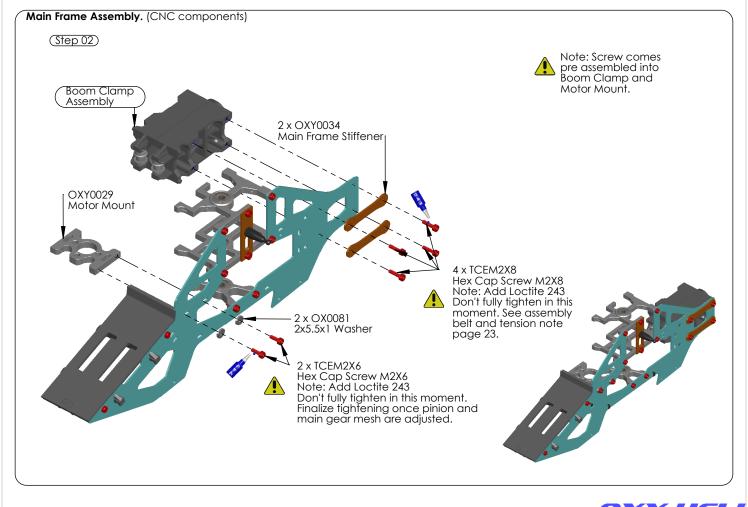


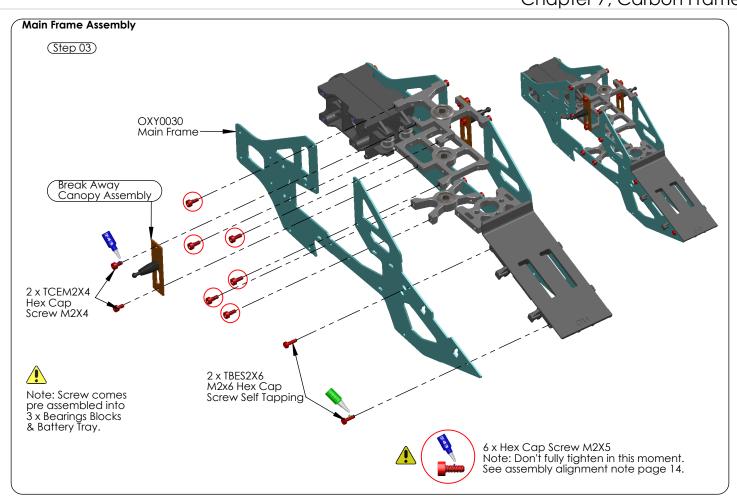


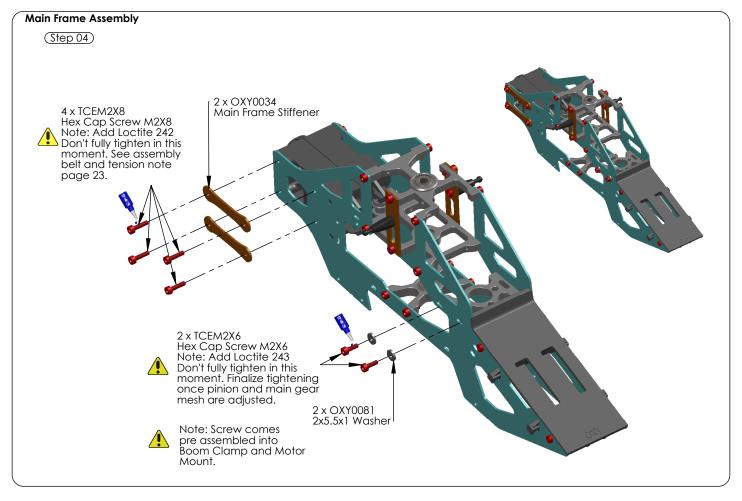


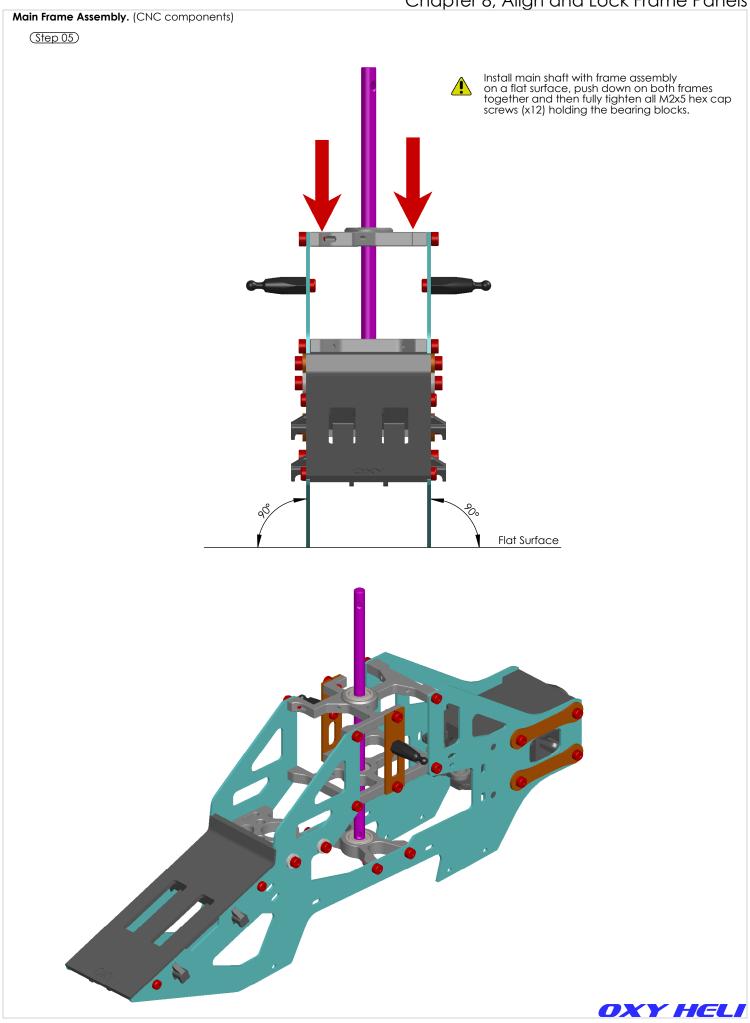


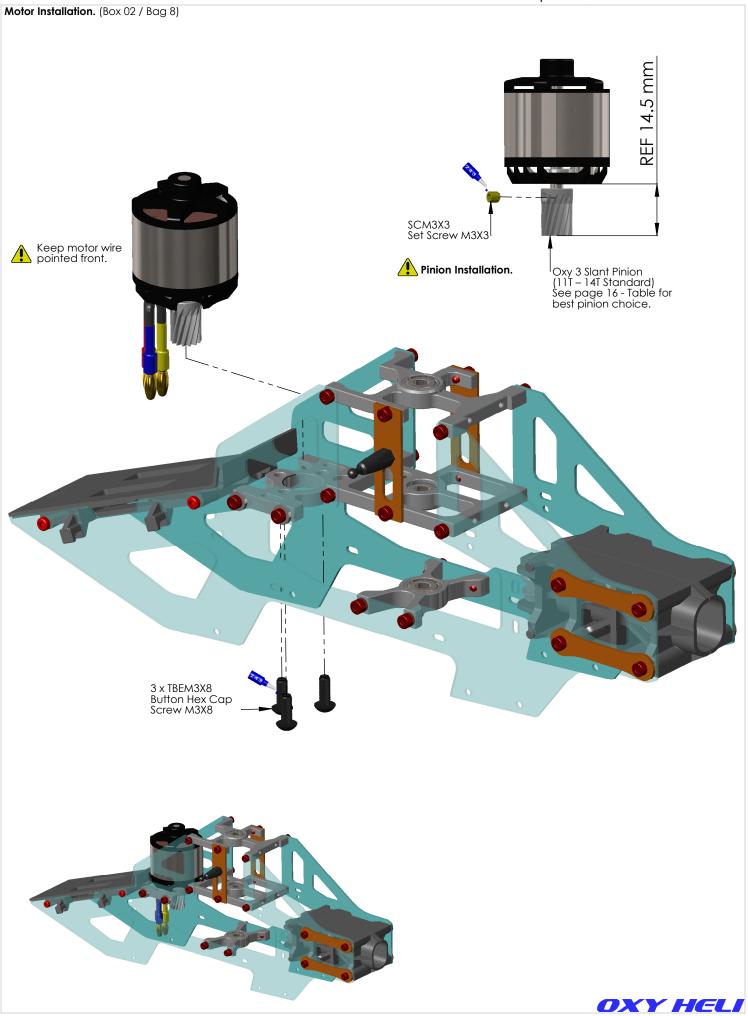












#### **OXY 3 POWER SYSTEM AND HEAD SPEED SET-UP**

In order to choose the best setup for your Oxy 3, and optimize performance, is important 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 |
| HOVE       | 2300 / 3000 | 255 CF      | 30         | 1 10 7 -3 |
| Elv. 2D    | 2000 / 2500 | 245 Plastic | 50         | + 10 / -5 |
| Fly 2D     | 3000 / 3500 | 255 CF      |            | + 10 / -3 |
| Soft 3D    | 3000 / 3500 | 250 CF      | 50         | +/- 12    |
| 2011 20    | 3000 / 3300 | 255 CF      |            | +/- 12    |
| Hard 3D    | 3500 / 4000 | 250 CF      | 47         | +/- 14    |
| กลเล จบ    | 3500 / 4000 | 255 CF      |            | +/- 14    |
| Extreme 3D | 4000 / 4500 | 250 CF      | 47         | +/- 14    |
| exireme 3D | 4000 / 4500 | 255 CF      |            | +/- 14    |

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

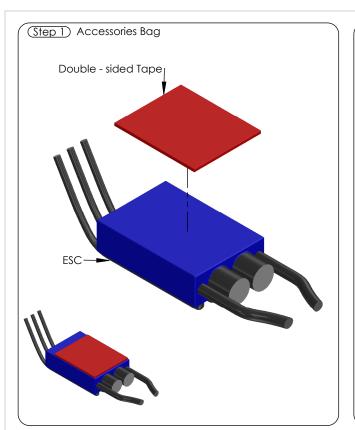
#### **Configuration examples**

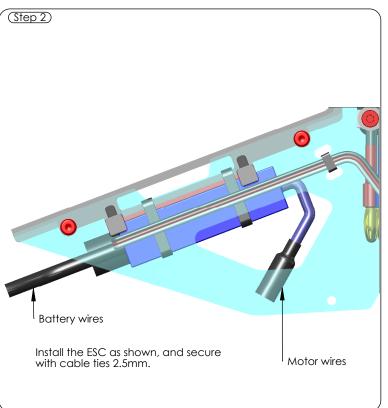
Since the Oxy 3 is a high performance 3D RC helicopter, we suggest using high quality power components including motor, battery and ESC. Remember the Oxy 3 is a 300 class heli – use light components to maximize flight time and performance.

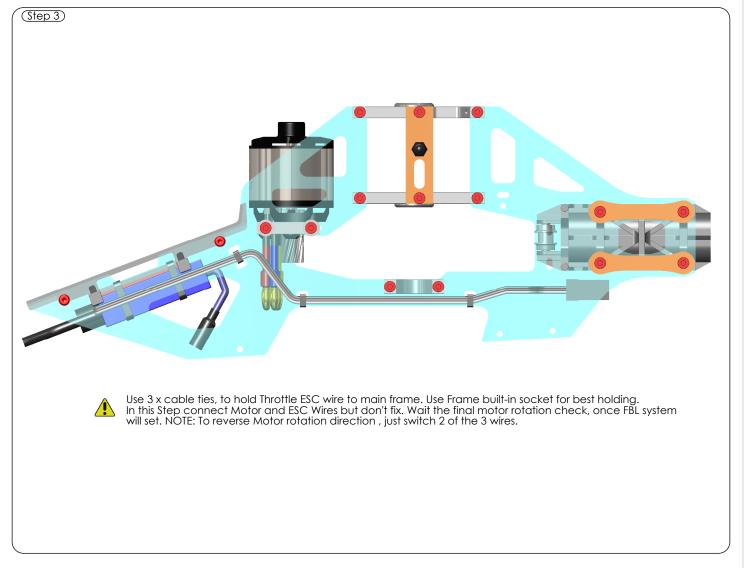
Here are some suggestions:

- Motor: Suggested KV 3000KV to 4500KV, 21-08 to 22-14 caliber series (stator diameter stator length).
- Battery: 3 or 4\$ with capacity from 1300 to 1500mAh / 35C discharge rate. Maximum size: length 76mm, height 35mm, width 37mm, weight 180a.
- 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.

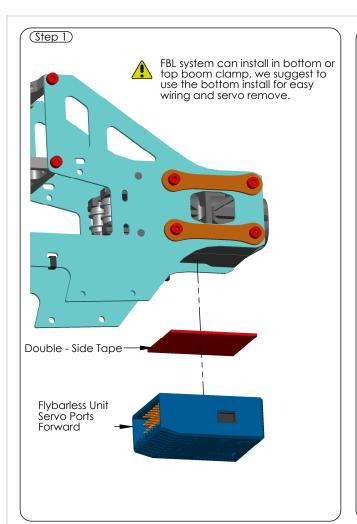
## Chapter 11, ESC Installation

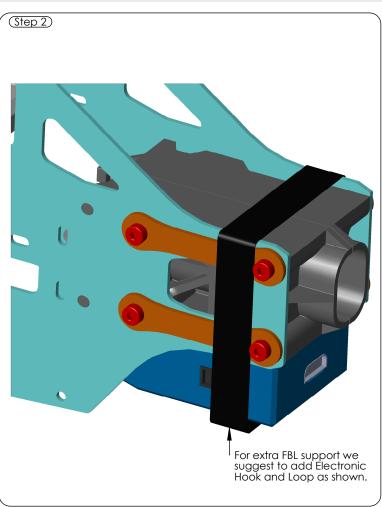


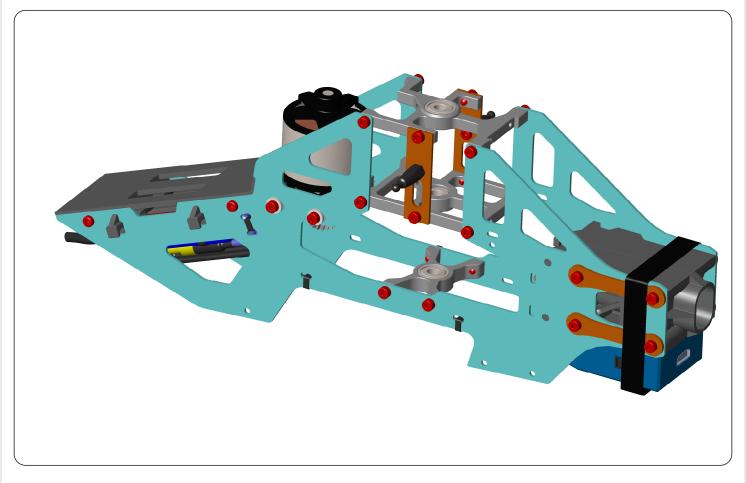


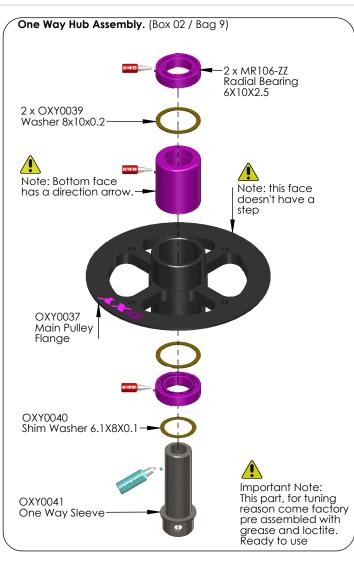


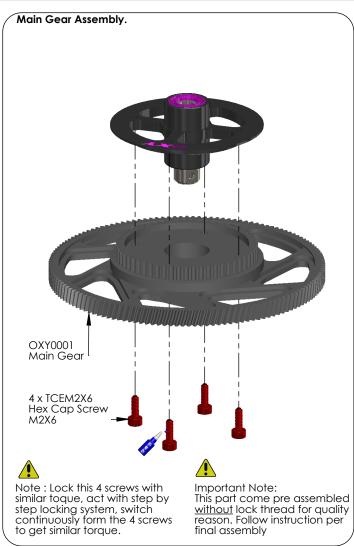
## Chapter 12, Flybarless Installation

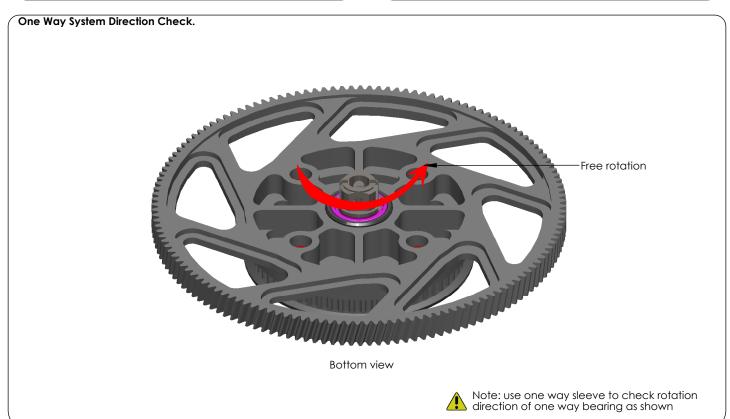


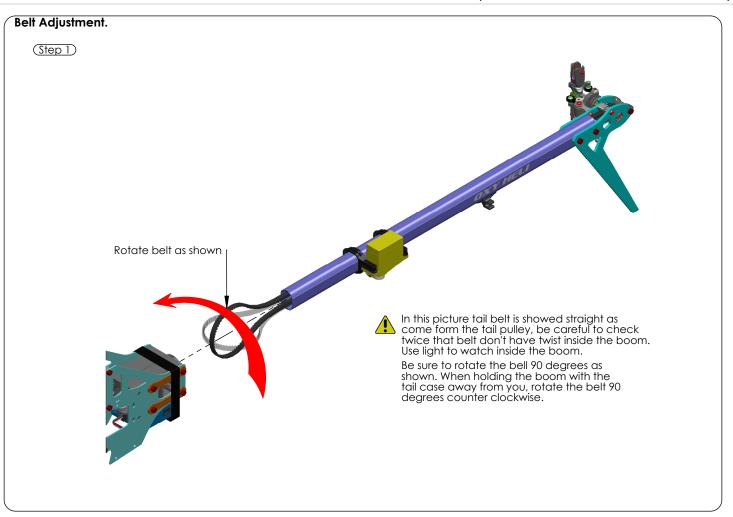


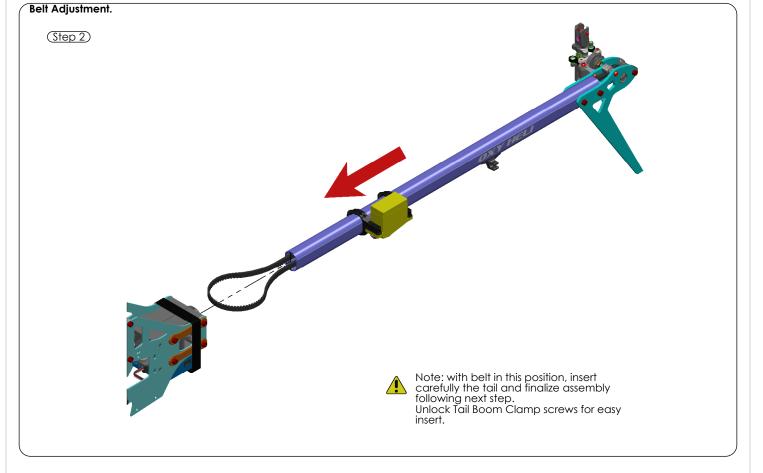


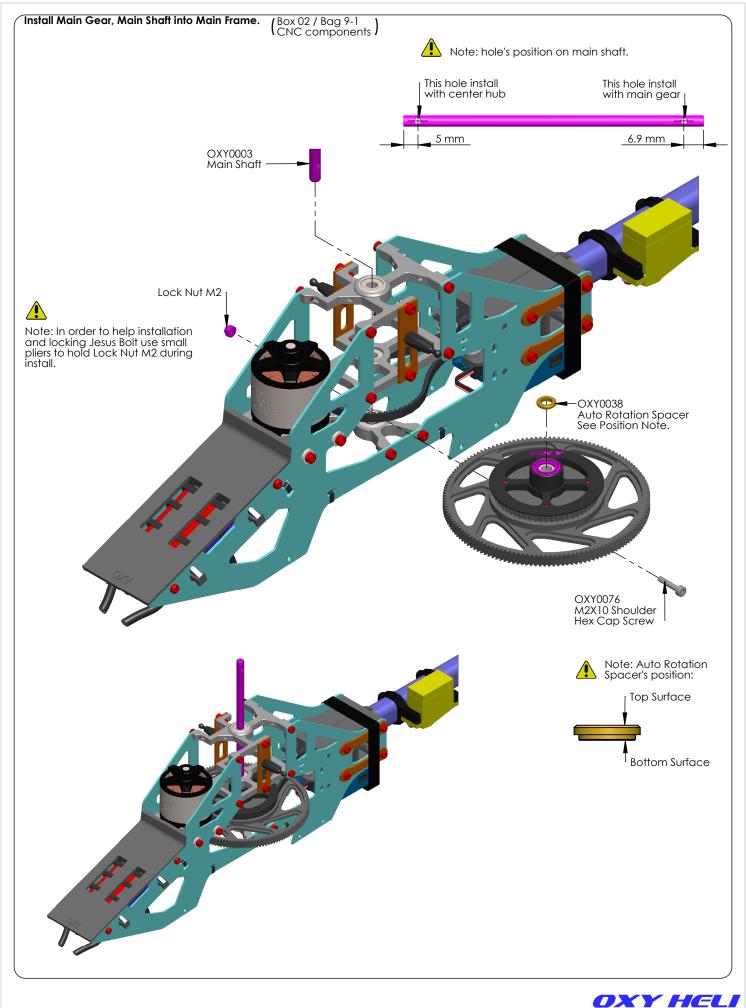


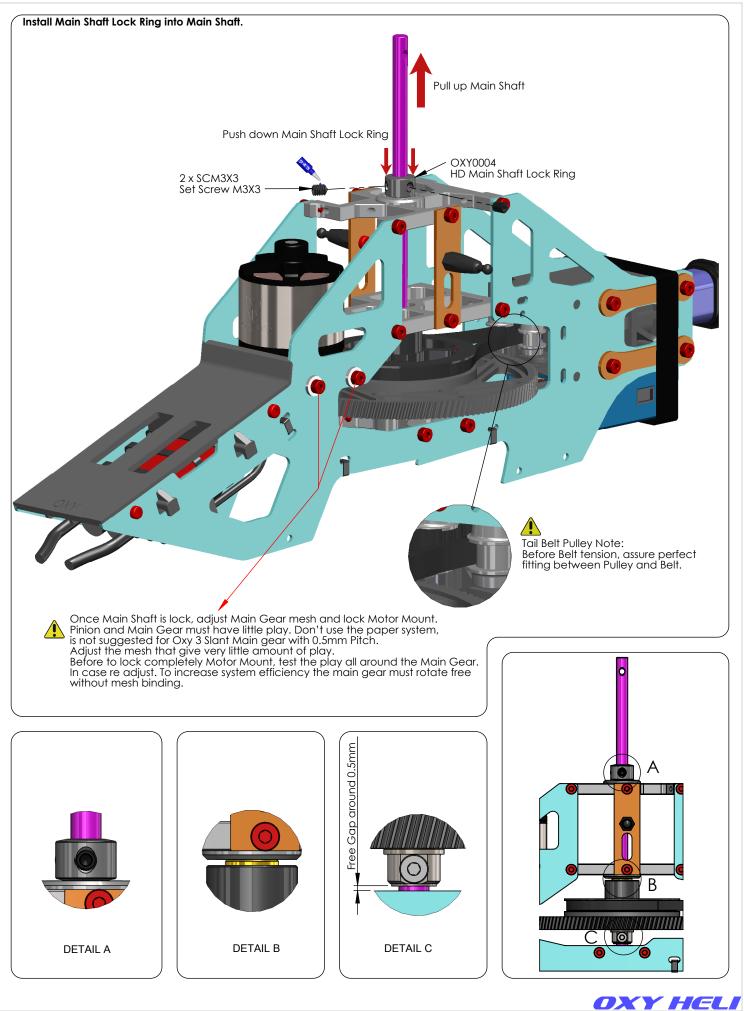


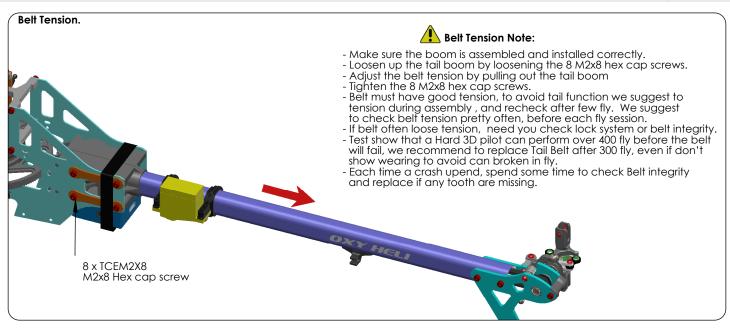


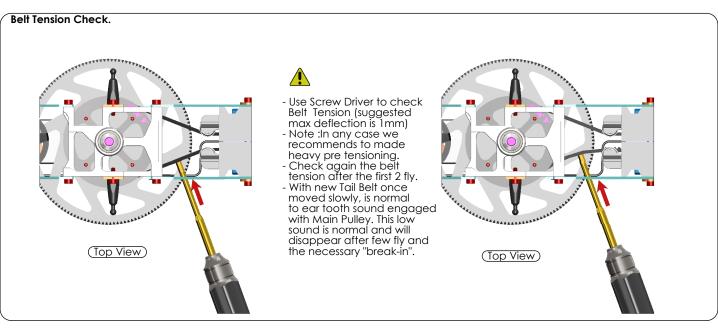


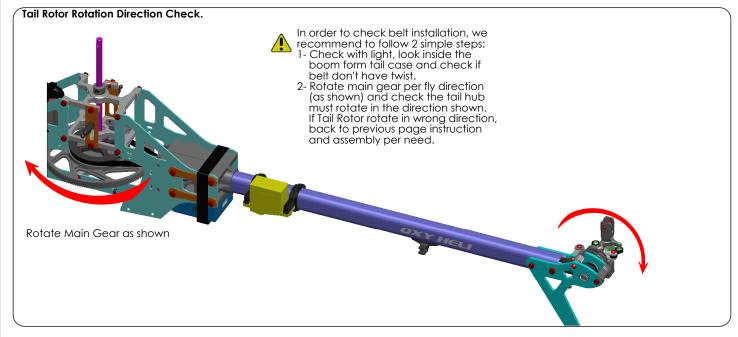


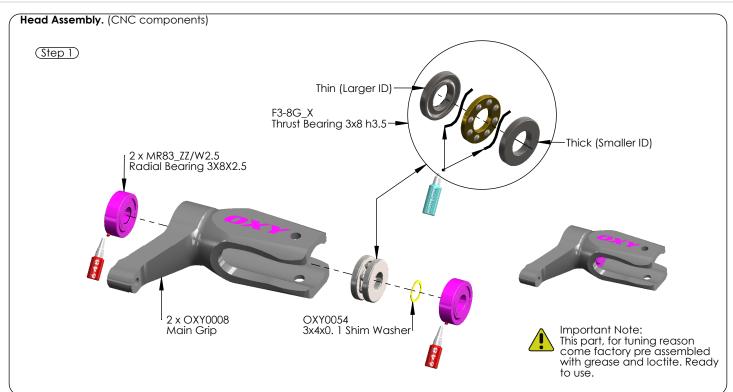


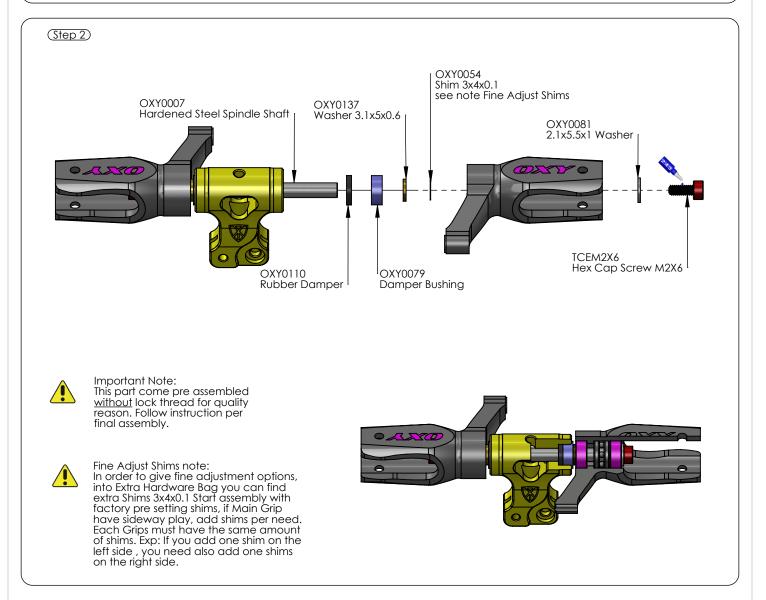


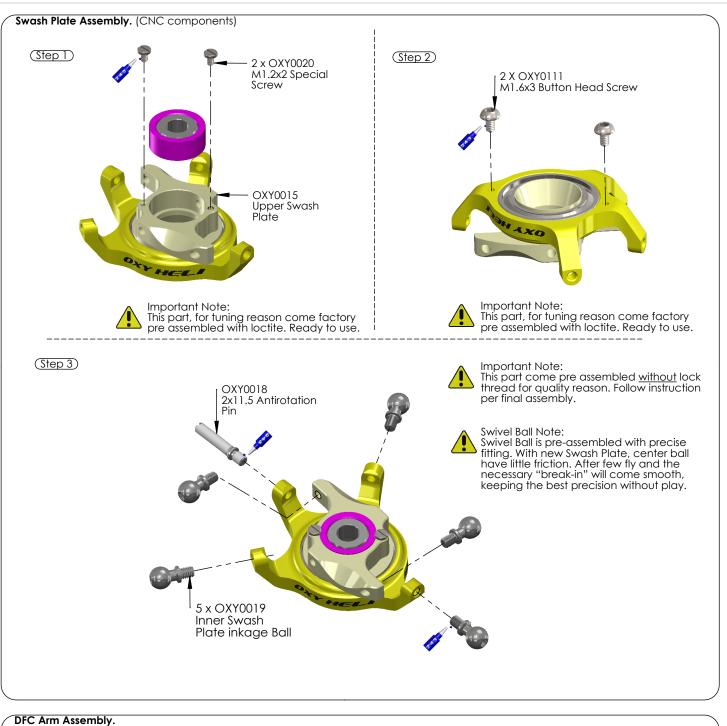


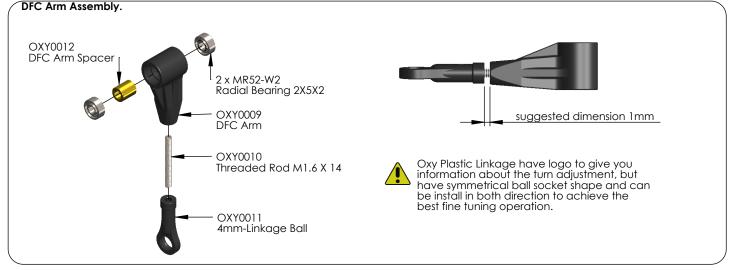


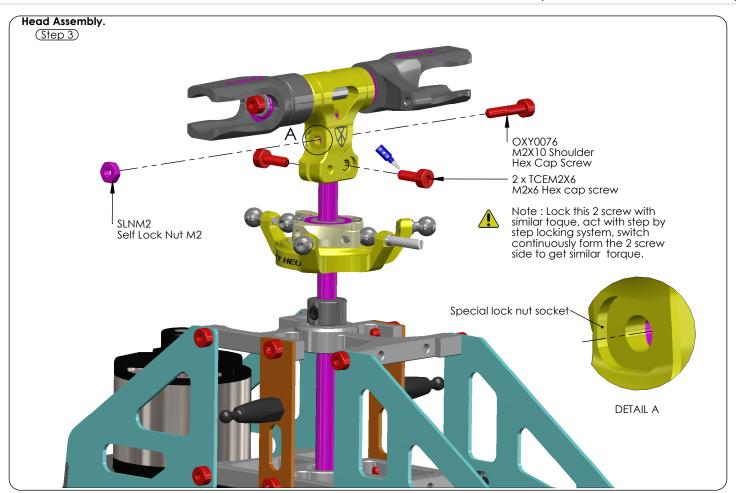


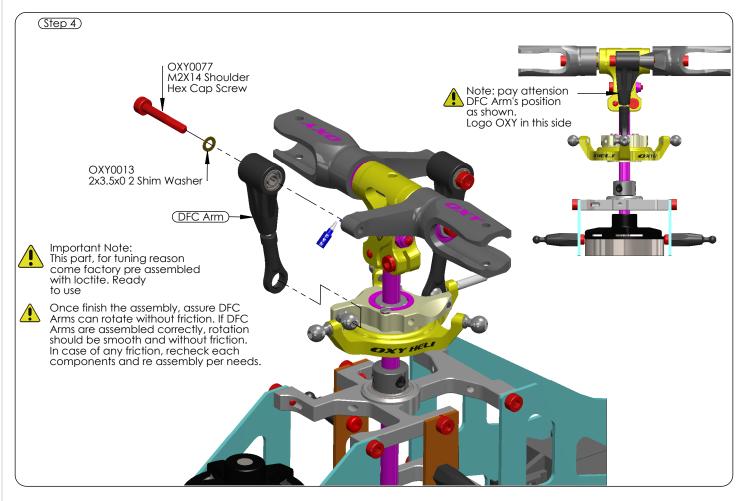








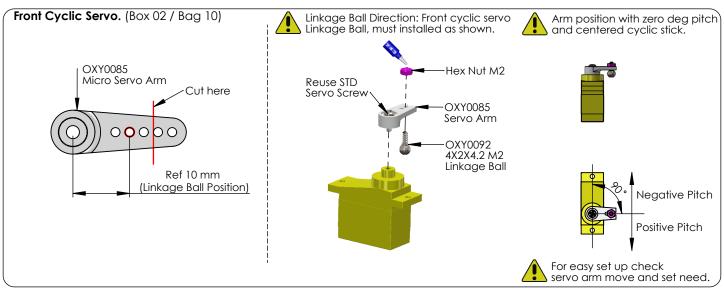


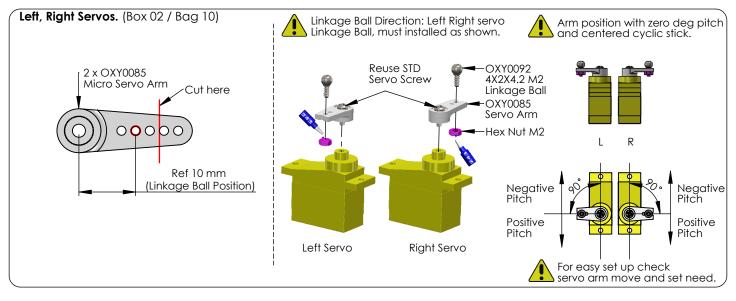


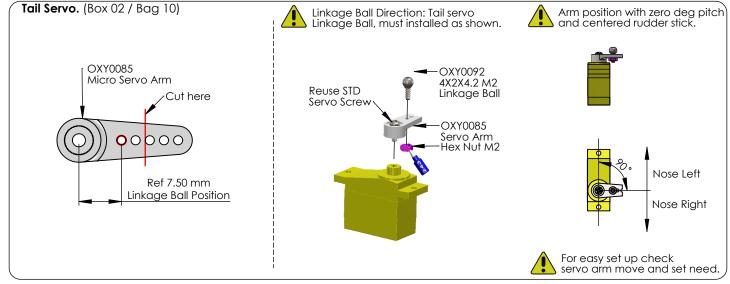
### Chapter 16, Servo and FBL System Start Up

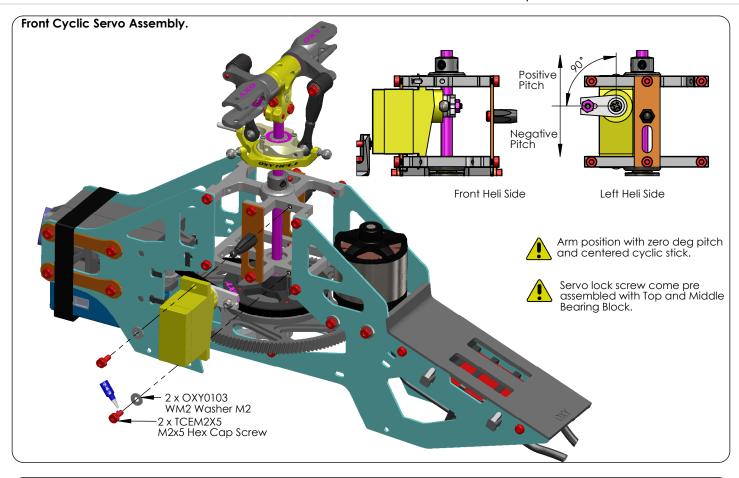
- You should now do some initial setup of your FBL unit and servos.
- We recommend you select a new model in your transmitter, and reset your FBL unit and start with a clean setup in it as well.
- After binding your transmitter to the receiver system used with the FBL unit, work your way through the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

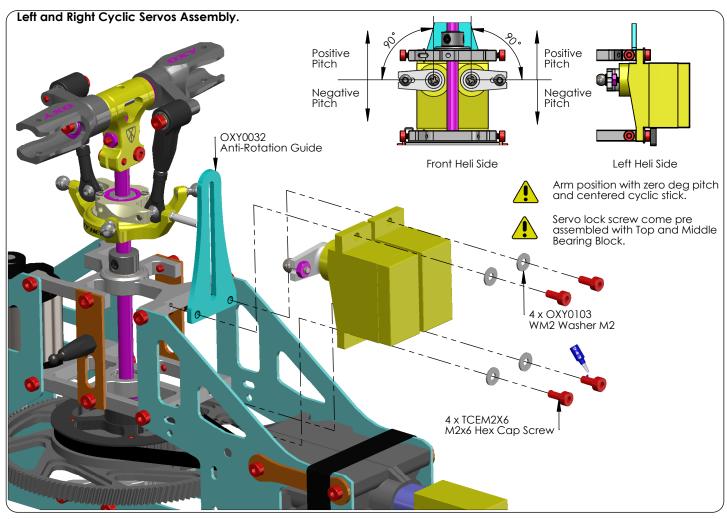
   This procedure varies between units. Carefully label the position of the servos, then proceed with the installation of the servos as shown.

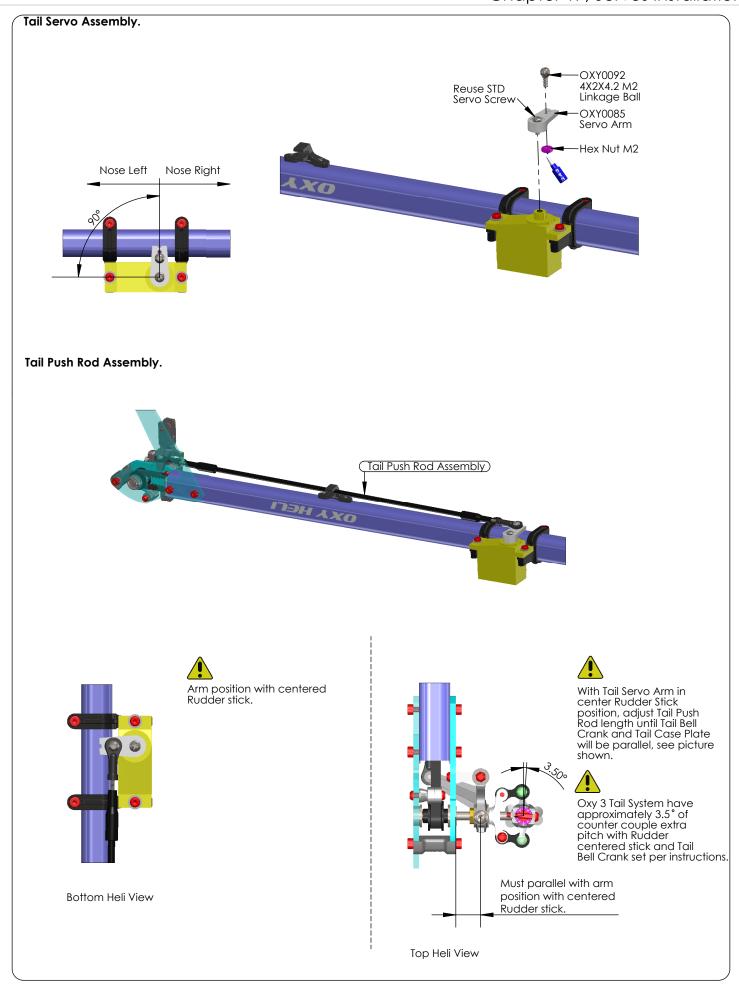


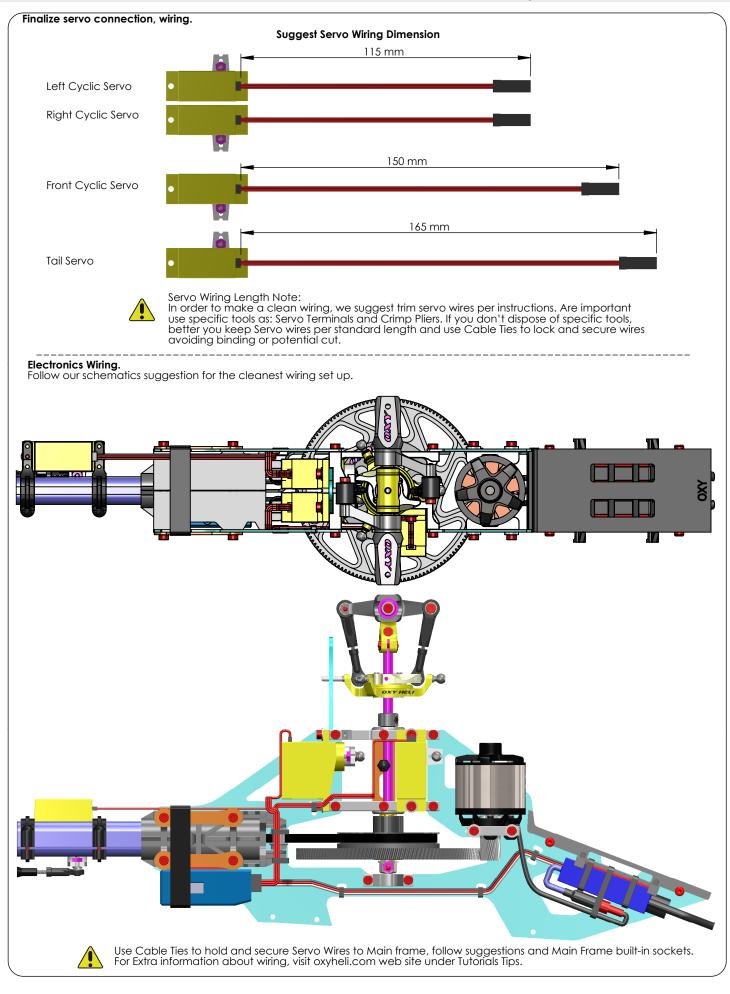




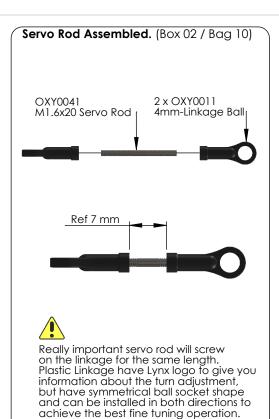


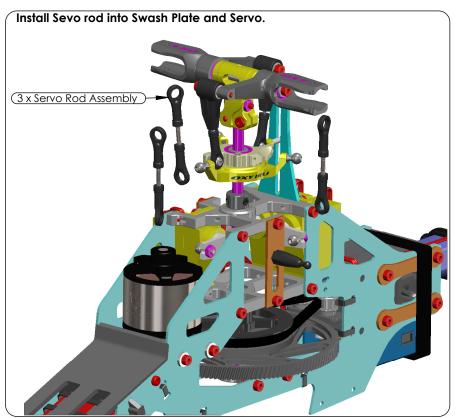




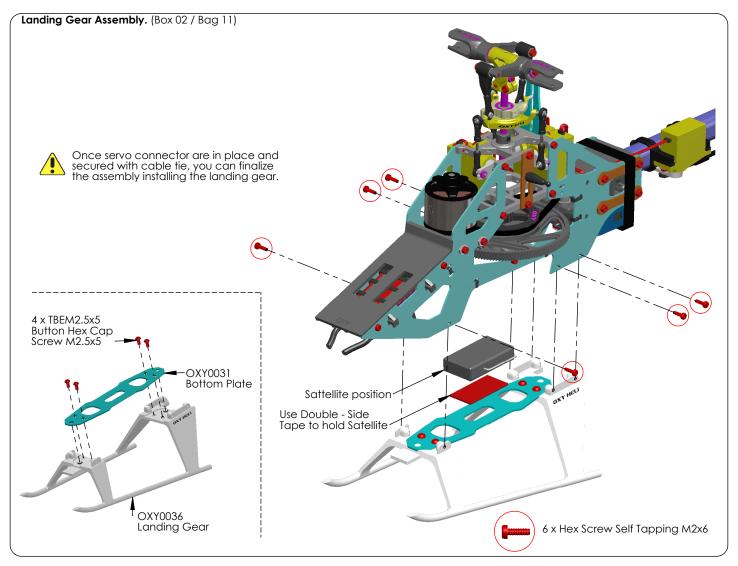


## Chapter 18, Servo Rod and Landing Gear Installation





OXY HELI



#### Before Flight.

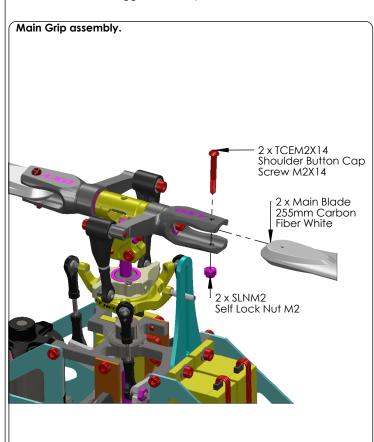
Now complete the setup of your FBL system. Into Accessories Bag you can find Oxy 3 Swash Plate Leveler Tools. This Tool is designed to fit under the Swash Plate without disassembly any parts. This simple tool will give planarity and Zero Pitch Position. About Gyro Gain, Oxy 3 was designed around fews famous FBL System (IKON / Brain / m V-Bar) we suggest to start with follow standard set up and adjust later for your feeling and set up:

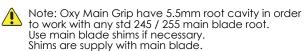
Use suggested setting for 450 Heli and adjusts later per your fly feeling.
See table page 15 for RPM and Pitch Setting. Cyclic Max pitch +/- 10.5 deg.

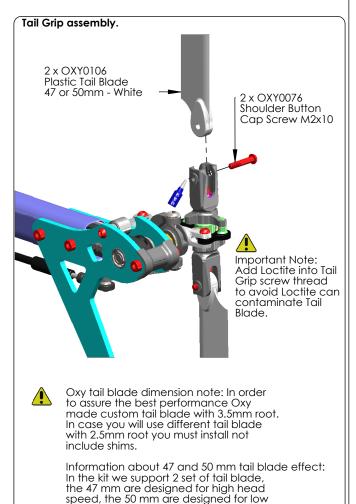
Tail Set Up:

Use suggested setting for 450 Heli BUT start with lower Tail Gain IKON / Brain = 20%

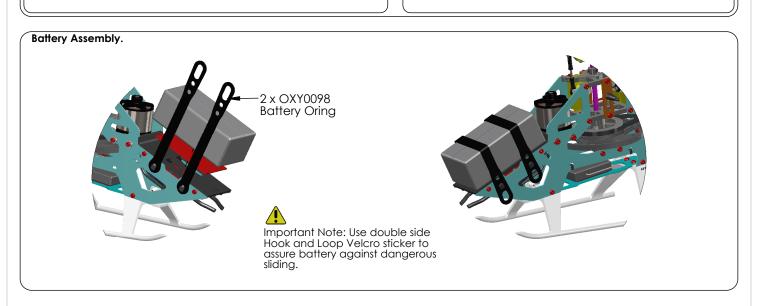
M V-Bar = 250 Heli Suggested Set Up.



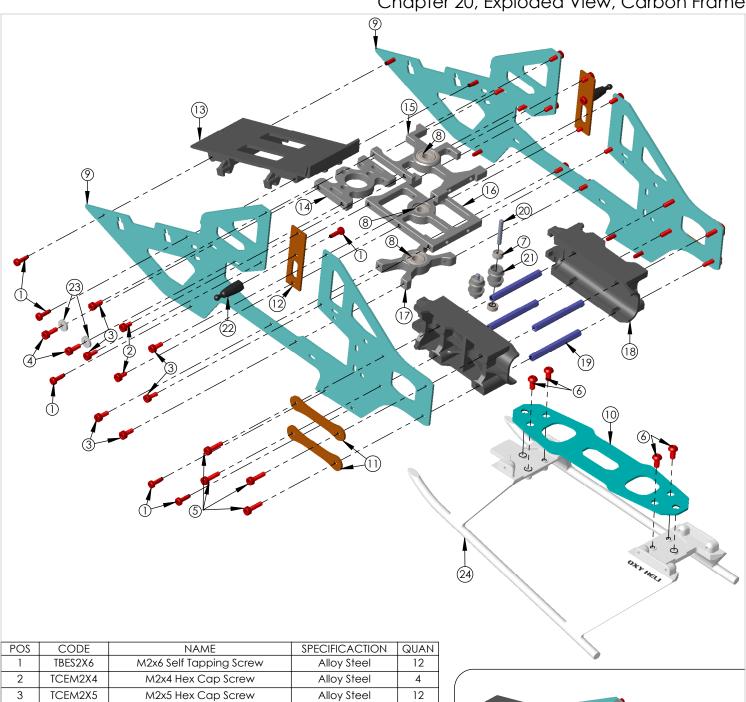




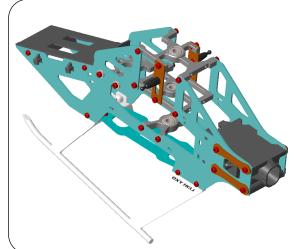
head speed. We recommends use 47 mm when head speed is higher than 4000 rpm.

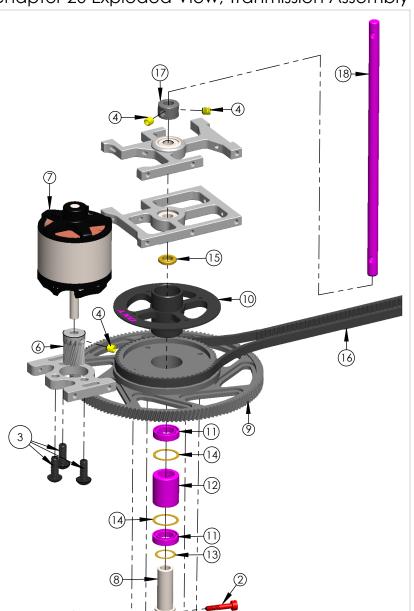


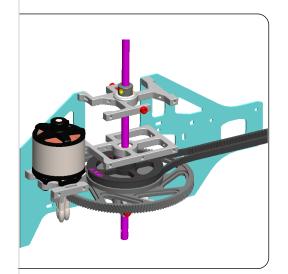
# Chapter 20, Exploded View, Carbon Frame



| 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    | 2x13.5 Pin                      | SST            | 2    |
| 21  | OXY0024    | Pulley Guide Belt               | POM            | 2    |
| 22  | OXY0025    | Canopy Mount                    | POM            | 2    |
| 23  | OXY0081    | 2X5.5X1 Washer                  | SST            | 4    |
| 24  | OXY0036    | Landina Gear                    | POM            | 1    |

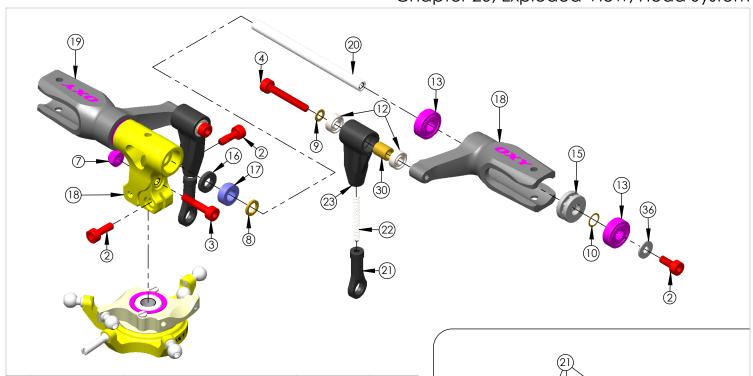




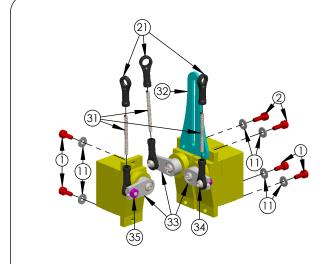


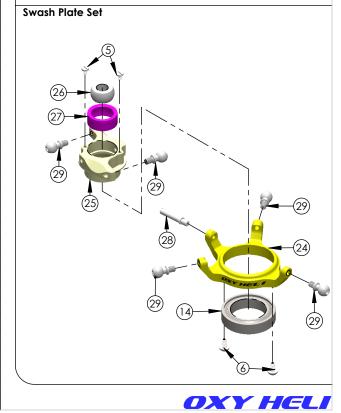
|     |            |  |               | (        |
|-----|------------|--|---------------|----------|
| POS | COD        | Name                                     | Specification | Quantity |
| 1   | TCEM2X6    | M2x6 Hex Cap Screw                       | Alloy Steel   | 4        |
| 2   | OXY0076    | M2x10 Hex Cap Screw                      | Alloy Steel   | 1        |
| 3   | TBEM3X8    | M3x8 Bottom Screw M3x8                   | 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<br>Thickness |               | 1        |
| 17  | OXY0004    | Main Shaft Lock Ring                     | SUS 304       | 1        |
| 18  | OXY0003    | Main Shaft                               | Hard Steel    | 1        |

# Chapter 20, Exploded View, Head System

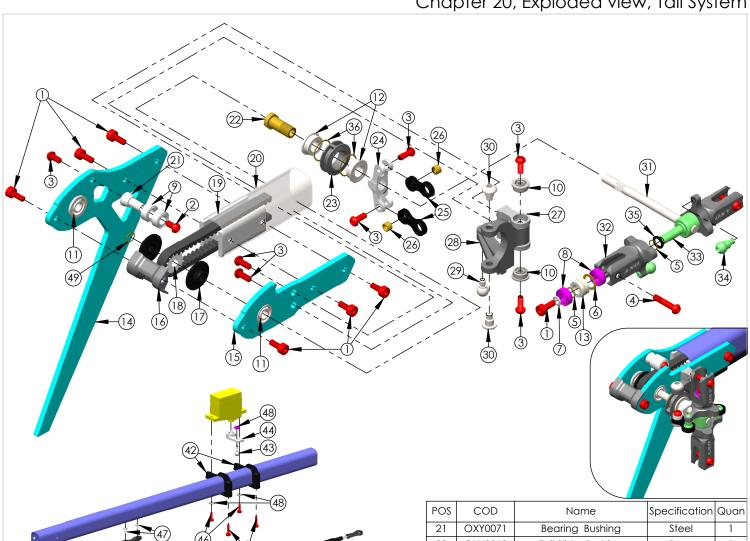


| POS | COD          | Name                     | Specification | Quantity |
|-----|--------------|--------------------------|---------------|----------|
| 1   | TCEM2X5      | M2x5 Hex Cap Screw       | Alloy Steel   | 4        |
| 2   | TCEM2X6      | M2x6 Hex Cap Screw       | Alloy Steel   | 6        |
| 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          | Rubber        | 2        |
| 17  | OXY0079      | Dampener Bushing         | POM           | 2        |
| 18  | OXY0005      | Center Hub               | 6061-T6       | 1        |
| 19  | OXY0008      | Main Grip                | 6061-T6       | 2        |
| 20  | OXY0007      | Spindle Shaft            | SS420         | 1        |
| 21  | OXY0011      | 4mm-linkage ball         | РОМ           | 8        |
| 22  | OXY0010      | Thread Rod M1.6 X 14     | SST           | 2        |
| 23  | OXY0009      | DFC Arm                  | РОМ           | 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  | OXY0012      | 2x3.7x4.4 Bushing        | Brass         | 2        |
| 31  | OXY0075      | Servo Rod M1.6x18        | Steel         | 3        |
| 32  | OXY0032      | Anti-Rotation Guide      | CF 1.5 mm     | 1        |
| 33  | OXY0085      | Servo Arm                | РОМ           | 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        |





Chapter 20, Exploded view, Tail System



|     | O          |                           |               |      |
|-----|------------|---------------------------|---------------|------|
| 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 | Flange_Bearings_3x7x3     | STD           | 2    |
| 12  | MF74-ZZ    | 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  | OXY0072    | Tail Case Cover           | POM           | 1    |
| 17  | OXY0046    | Flange Tail Pulley        | POM           | 2    |
| 18  | OXY0045    | 14T Tail Pulley           | 6061-T6       | 1    |
| 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 Slider Bushing         | Brass         | 1    |
| 23  | OXY0061 | Tail Pitch Slider Ring      | POM           | 1    |
| 24  | OXY0063 | Tail Pitch Slider Haft Moon | 6061-T6       | 1    |
| 25  | OXY0064 | Link Control                | POM           | 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  | OXY0043 | 4x2 Linkage Ball            | Steel         | 1    |
| 30  | OXY0057 | Tail Pin Screw              | Steel         | 2    |
| 31  | OXY0044 | Tail Shaft                  | SST           | 1    |
| 32  | OXY0051 | Tail Grip                   | 6061-T6       | 2    |
| 33  | OXY0049 | Tail Hub                    | SST 304       | 1    |
| 34  | OXY0050 | Linkage Ball 4 X 3 M2       | SST           | 2    |
| 35  | OR-2X1  | O-RING ID 2 - W 1           | Rubber        | 2    |
| 36  | OXY0139 | Shim 7x8x0.1                | Brass         | 2    |
| 37  | OXY0048 | CF Rod 170 mm               | CF            | 1    |
| 38  | OXY0047 | Tail Push Rod Terminal      | РОМ           | 1    |
| 39  | OXY0010 | Thread Rod M1.6X14          | SST           | 1    |
| 40  | OXY0011 | 4 mm Linkage Ball           | РОМ           | 2    |
| 41  | OXY0067 | Guide Push Rod              | POM           | 1    |
| 42  | OXY0066 | Tail Servo Mount            | POM           | 2    |
| 43  | OXY0092 | 4X2X4.2 M2 Linkage Ball     | SST           | 1    |
| 44  | OXY0085 | Servo Arm                   | POM           | 1    |
| 45  | TBES2X8 | M2x8 Self Tapping Screw     | Alloy Steel   | 2    |
| 46  | TBES2X6 | M2x6 Self Tapping Screw     | Alloy Steel   | 2    |
| 47  | OXY0068 | Pin Screw                   | SST           | 2    |
| 48  |         | Hex Nut M2                  | Alloy Steel   | 1    |
| 49  | OXY0054 | Shim 3x4x0.1                | Brass         | 1    |
|     |         |                             |               |      |

