

# GOBLIN

HELICOPTER

MANUAL

GOBLIN COMET



SAB HELI DIVISION



Please read this user manual carefully, it contains instructions for the correct assembly of the model.  
Please refer to the web site [www.goblin-helicopter.com](http://www.goblin-helicopter.com) for updates and other important information.

VERY IMPORTANT

In the Manual bag you will find a product card with your serial number. Please take a moment to register your kit online via our web site at:

<http://www.goblin-helicopter.com>



It is extremely important that you take a moment to register your helicopter with us. This is the only way to ensure that you are properly informed about changes to your kit, such as upgrades, retrofits and other important developments. SAB Heli Division cannot be held responsible for issues arising with your model and will not provide support unless you register your serial number.

The Serial number is also engraved in the Aluminum Top Plate.

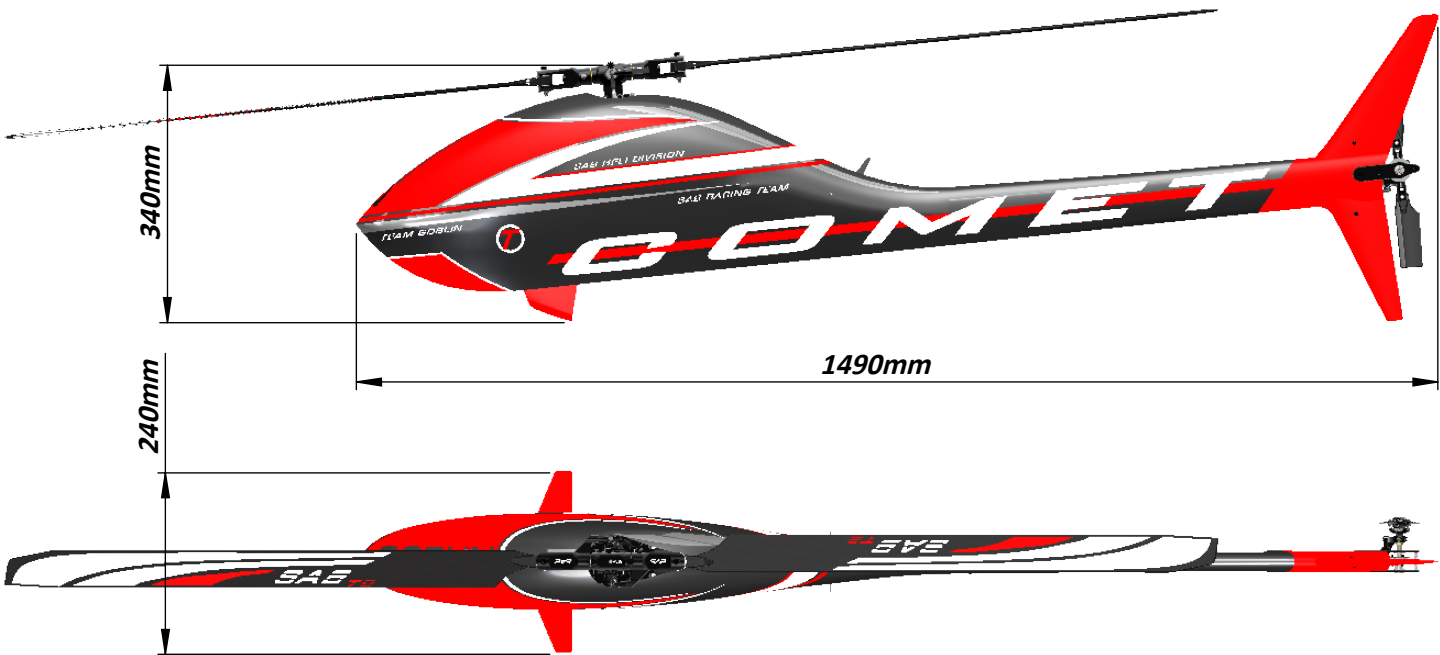
*Thank you for your purchase, we hope you enjoy your new Goblin helicopter!*

SAB Heli Division

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SPECIFICATIONS



- Main rotor diameter: 1626mm (with 720mm Blades)
- Tail rotor diameter: 282mm (with 105mm Tail Blades)
- Motor size: Maximum 64mm diameter, maximum height 80mm.
- Main Battery compartment: 2x 165x55x55mm.

**IMPORTANT NOTES**

- \*This radio controlled helicopter is not a toy.
- \*This radio controlled helicopter can be very dangerous.
- \*This radio controlled helicopter is a technically complex device which has to be built and handled very carefully.
- \*This radio controlled helicopter must be built following these instructions. This manual provides the necessary information to correctly assemble the model. It is necessary to carefully follow all the instructions.
- \*Inexperienced pilots must be monitored by expert pilots.
- \*All operators must wear safety glasses and take appropriate safety precautions.
- \*A radio controlled helicopter must only be used in open spaces without obstacles, and far enough from people to minimize the possibility of accidents or of injury to property or persons.
- \*A radio controlled helicopter can behave in an unexpected manner, causing loss of control of the model, making it very dangerous.
- \*Lack of care with assembly or maintenance can result in an unreliable and dangerous model.

**\*Neither SAB Heli Division nor its agents have any control over the assembly, maintenance and use of this product. Therefore, no responsibility can be traced back to the manufacturer. You hereby agree to release SAB Heli Division from any responsibility or liability arising from the use of this product.**

**SAFETY GUIDELINES**

- \*Fly only in areas dedicated to the use of model helicopters.
- \*Follow all control procedures for the radio frequency system.
- \*It is necessary that you know your radio system well. Check all functions of the transmitter before every flight.
- \*The blades of the model rotate at a very high speed; be aware of the danger they pose and the damage they may cause.
- \*Never fly in the vicinity of other people.

**LIMITED WARRANTY.**

SAB Heli Division reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.

**(a)** This warranty is limited to the original Purchaser ("Purchaser") and is not transferable. REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. This warranty covers only those Products purchased from an authorized SAB Heli Division dealer. Third party transactions are not covered by this warranty. Proof of purchase is required for warranty claims.

**(b)** Limitations- SAB HELI DIVISION MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCT. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

**(c)** Purchaser Remedy- SAB Heli Division's sole obligation hereunder shall be that SAB Heli Division will, at its option, replace any Product determined by SAB Heli Division to be defective. In the event of a defect, this is the Purchaser's exclusive remedy. Replacement decisions are at the sole discretion of SAB Heli Division. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance or attempted repair by anyone.

**DAMAGE LIMITS.**

SAB HELI DIVISION SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCT, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. Further, in no event shall the liability of SAB Heli Division exceed the individual price of the Product on which liability is asserted. As SAB Heli Division has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly the user accepts all resulting liability. If you as the Purchaser or user are not prepared to accept the liability associated with the use of this Product, you are advised to return this Product immediately in new and unused condition to the place of purchase.

**NOTES FOR ASSEMBLY**

Please refer to this manual for assembly instructions for this model.

Follow the order of assembly indicated. The instructions are divided into chapters, which are structured in a way that each step is based on the work done in the previous step. Changing the order of assembly may result in additional or unnecessary steps.

Use thread lockers and retaining compounds as indicated. In general, each bolt or screw that engages with a metal part requires thread lock.

It is necessary to pay attention to the symbols listed below:

**Important****Bag xx**

Indicates that for this assembly phase you need materials that are in Bag xx.



Use retaining compound  
(eg HA115-S)



Use retaining compound  
(eg HA116-S)



Use CA Glue



Use Proper Lubricant

### ADDITIONAL COMPONENTS REQUIRED

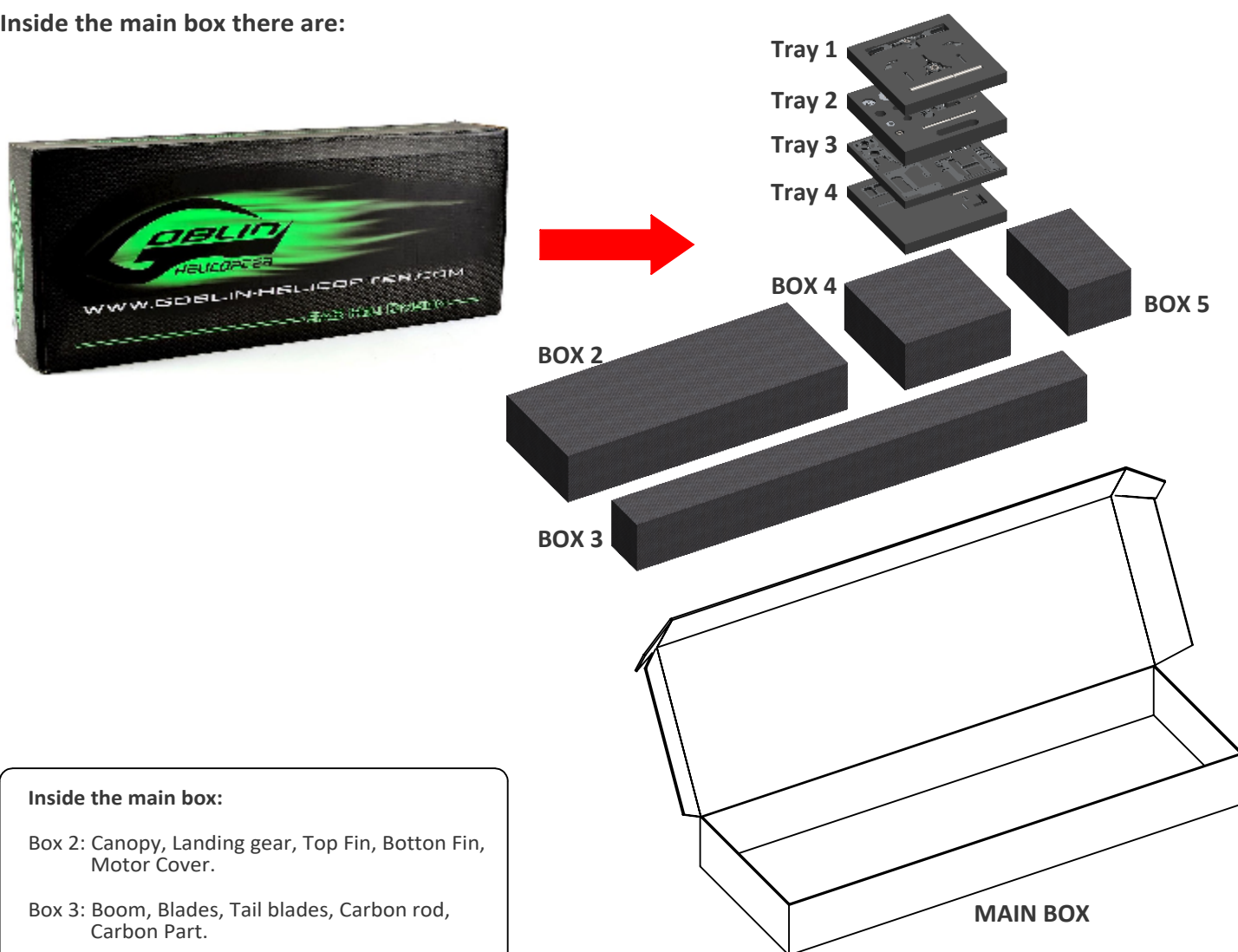
- \*Electric Motor: 12S – 480/600Kv, 14S – 450/560Kv  
Maximum diameter 64mm,  
Maximum height 80mm,  
Pinion shaft diameter 8mm
- \*Speed controller: minimum 160A but in according with setup
- \*Batteries: 12S – 5000/5500mAh, 12S – 4300/5000mAh
- \*1 flybarless 3 axis control unit
- \*Separate radio power system: 2S Lipo 2500 mAh
- \*3 cyclic servos
- \*1 tail rotor servo
- \*6 channel radio control system on 2.4 GHz

(See configuration examples on page 8)

### TOOLS, LUBRICANTS, ADHESIVES

- \*Generic pliers
- \*Hexagonal driver, size 1.5, 2, 2.5, 3, 4, 5mm
- \*4mm T-Wrench
- \*5.5mm Socket wrench (for M3 nuts)
- \*8mm Hex fork wrench (for M5 nuts)
- \*Medium threadlocker (eg. Thread Locker Medium Strength HA116-S)
- \*Strong retaining compound (eg. Retaining Compound High Strength Bonding HA115-S)
- \*Spray lubricant (eg. Try-Flow Oil)
- \*Synthetic grease (eg. Tri-Flow Synthetic Grease)
- \*Grease ( eg. Vaseline grease )
- \*Cyanoacrylate adhesive
- \*Pitch Gauge (for set-up)
- \*Soldering equipment (for motor wiring)

Inside the main box there are:



#### Inside the main box:

Box 2: Canopy, Landing gear, Top Fin, Botton Fin, Motor Cover.

Box 3: Boom, Blades, Tail blades, Carbon rod, Carbon Part.

Box 4: Mechanical parts in 4 trays:

Tray 1: Head System.

Tray 2: Transmission

Tray 3: Aluminum Main Frame

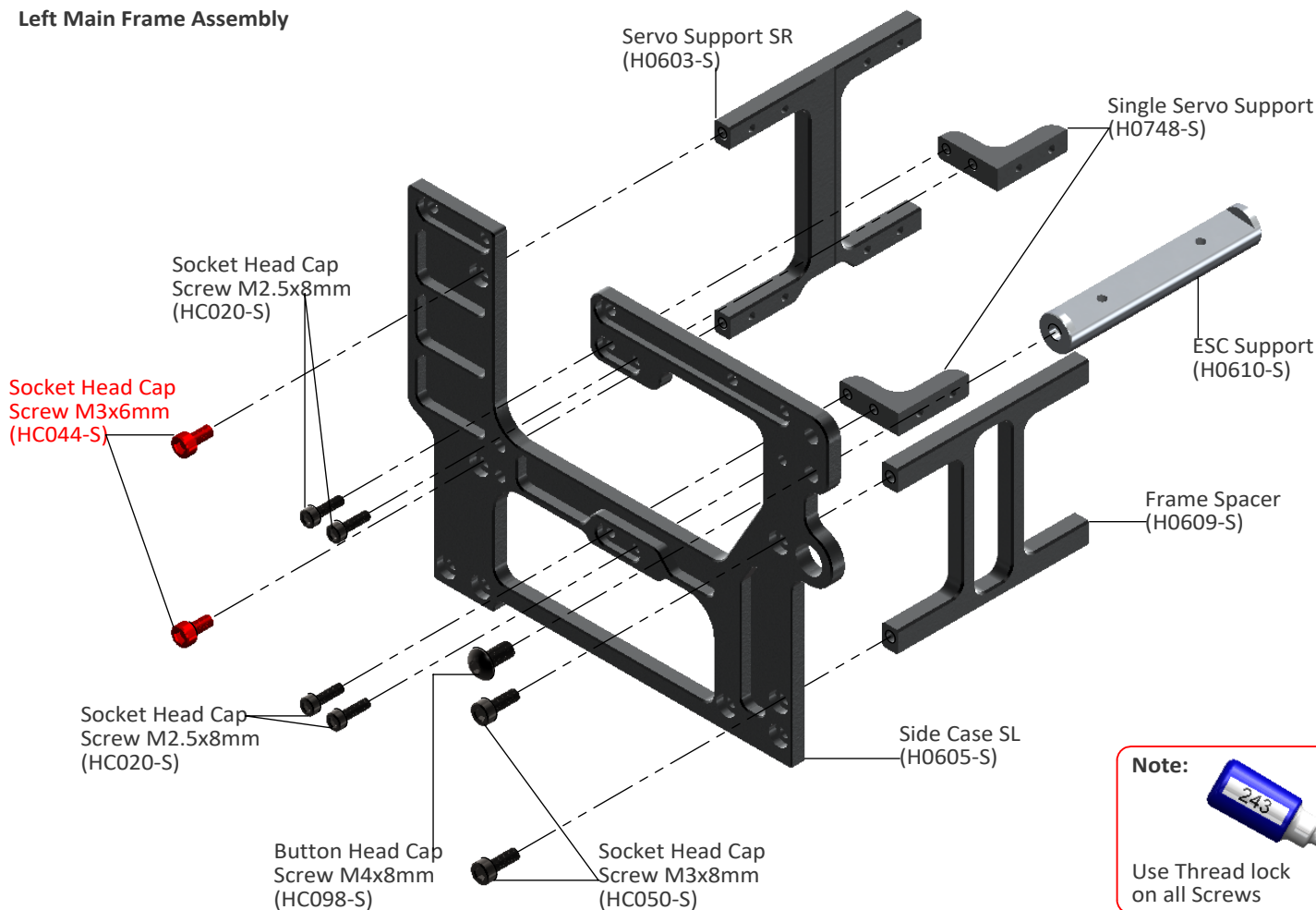
Tray 4: Tail System and Battery System

Box 5: Bags

The assembly process is described in the following chapters. Each chapter provides you with the box, bag and/or foam tray numbers you will need for that chapter. The information is printed in a green box in the upper right hand corner of the page at the beginning of every chapter.



## Left Main Frame Assembly

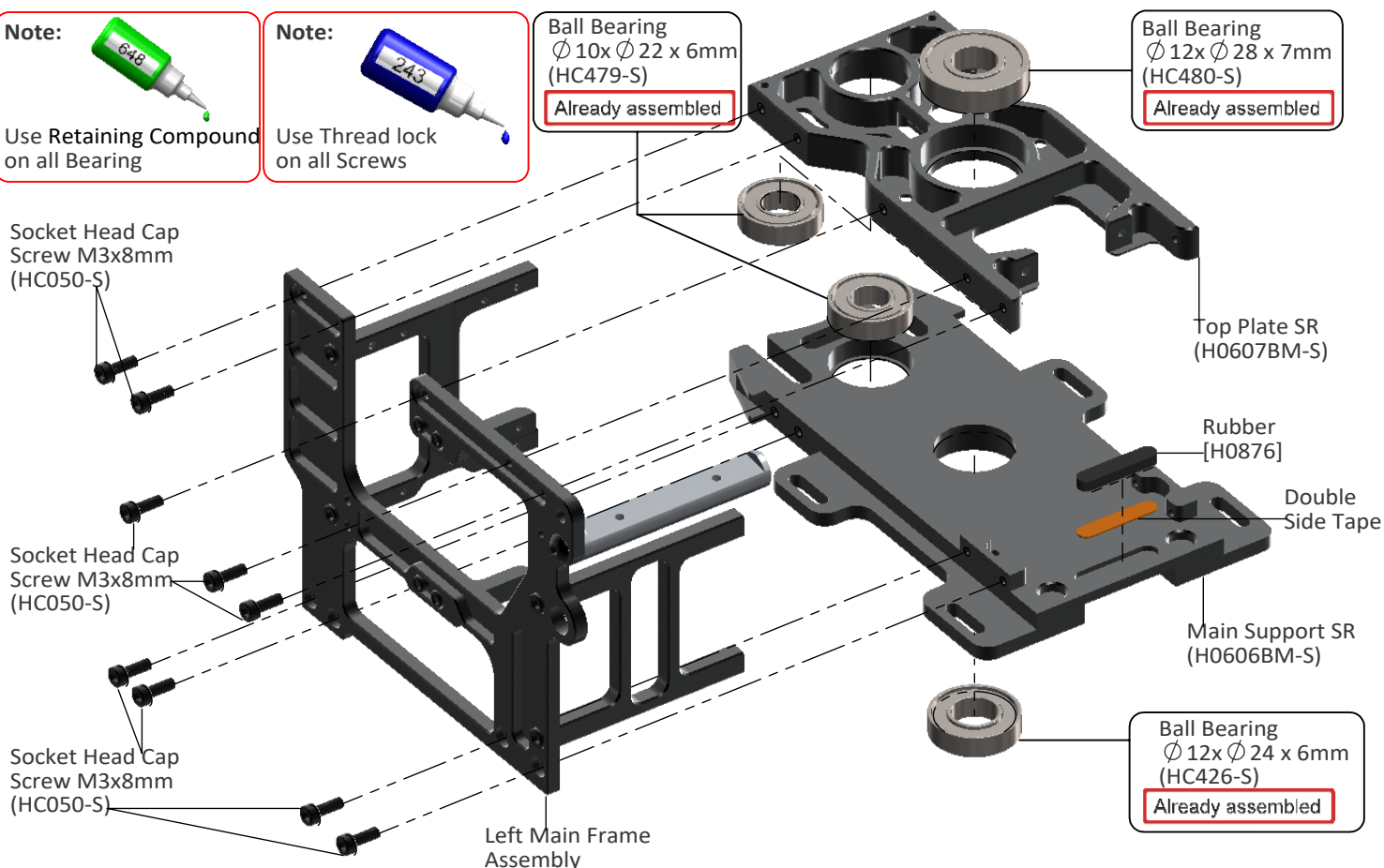


**Note:**  Use Retaining Compound on all Bearing

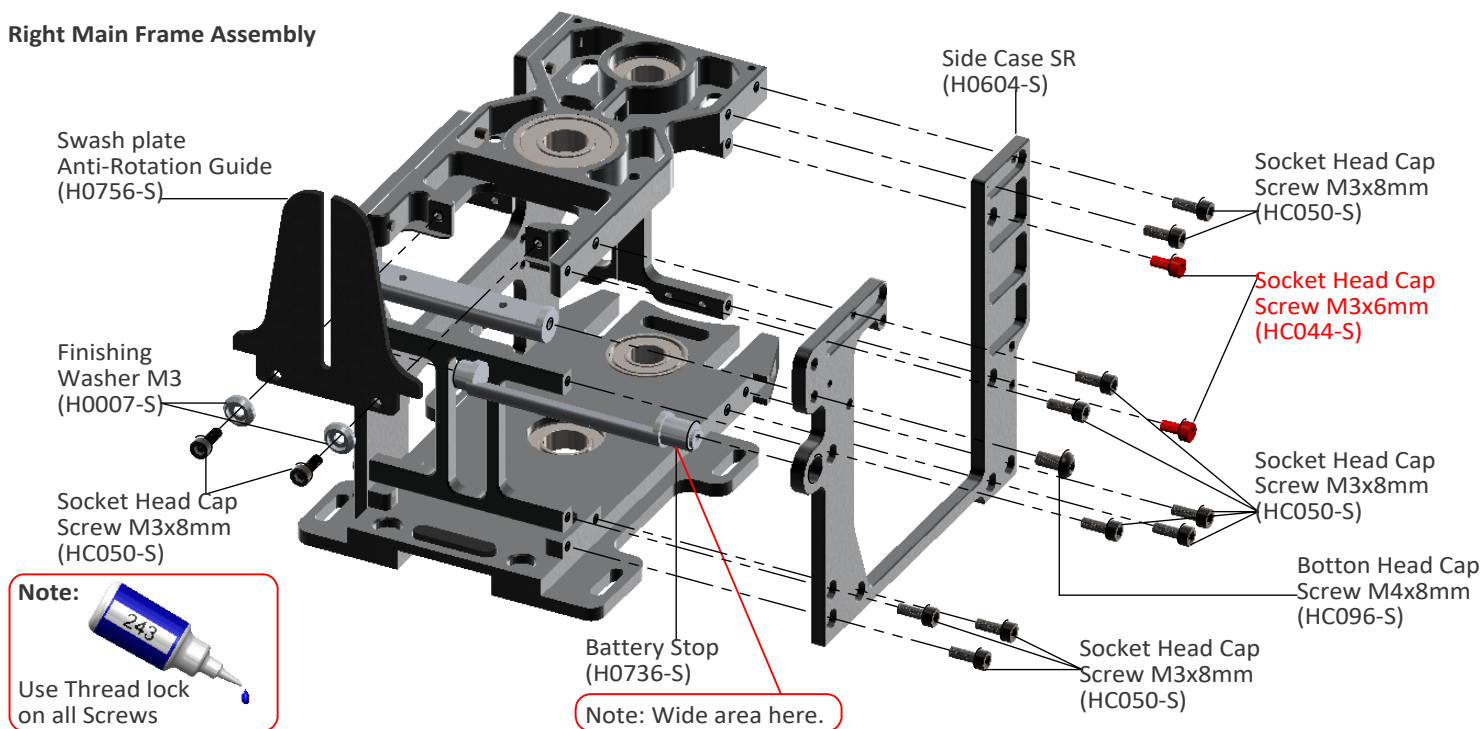
**Note:**  Use Thread lock on all Screws

Ball Bearing  $\varnothing 10 \times \varnothing 22 \times 6 \text{ mm}$  (HC479-S)  
**Already assembled**

Ball Bearing  $\varnothing 12 \times \varnothing 28 \times 7 \text{ mm}$  (HC480-S)  
**Already assembled**



## Right Main Frame Assembly



### Note:

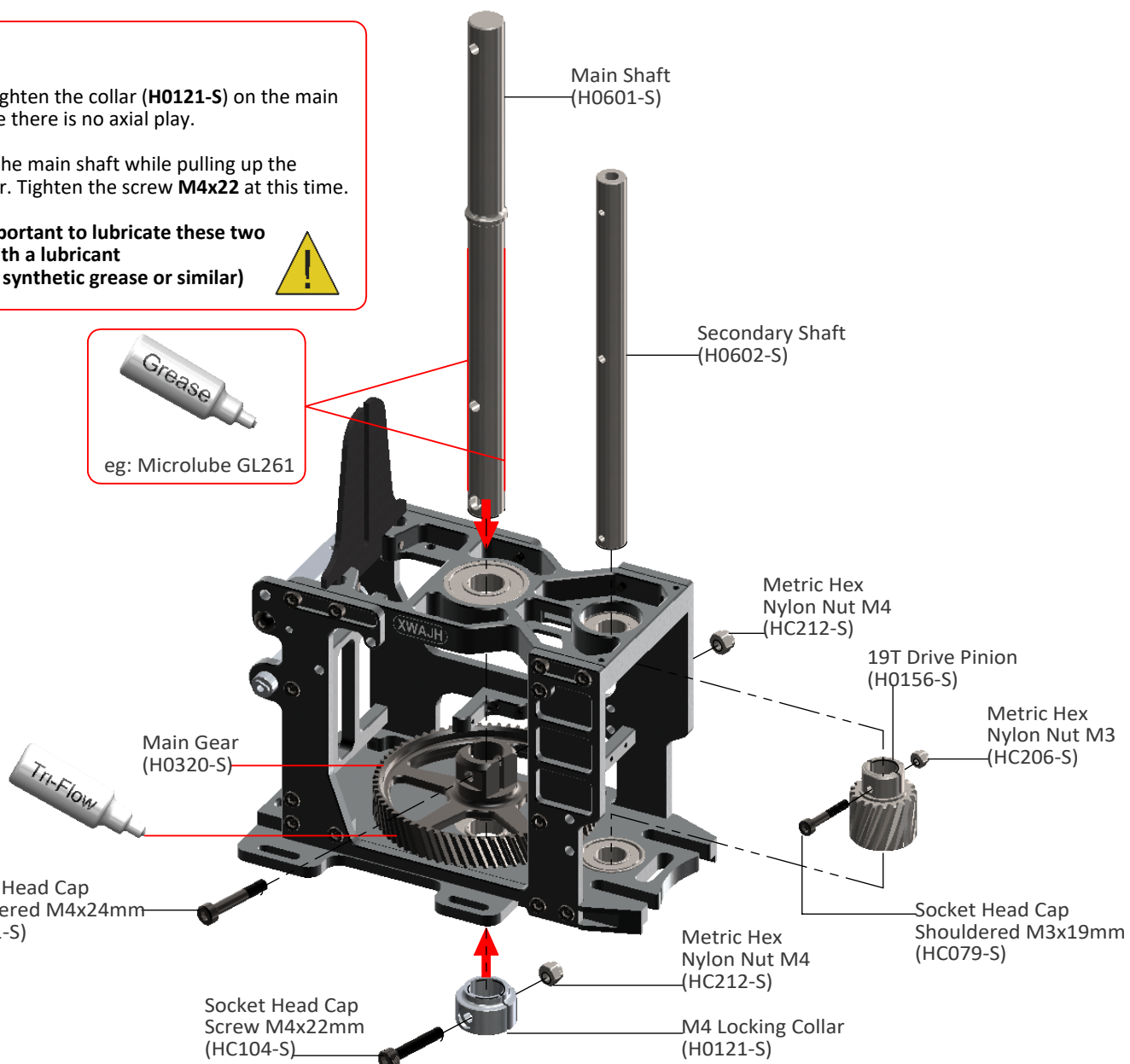
When you tighten the collar (**H0121-S**) on the main shaft, ensure there is no axial play.

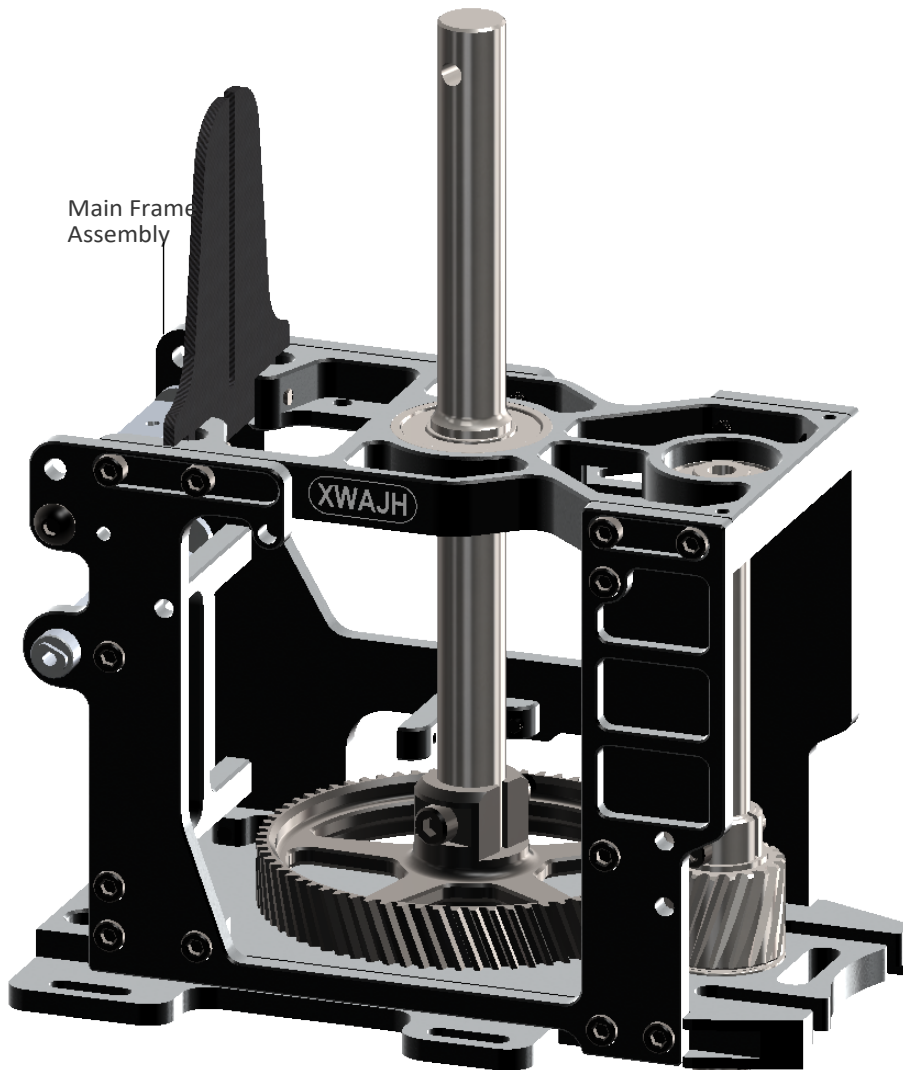
Push down the main shaft while pulling up the locking collar. Tighten the screw **M4x22** at this time.

**It is very important to lubricate these two elements with a lubricant (TRI-FLOW® synthetic grease or similar)**



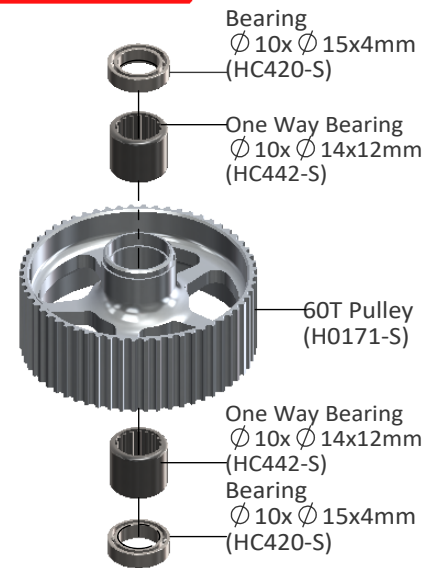
eg: Microlube GL261





### 60T Pulley Assembly (H0171-S)

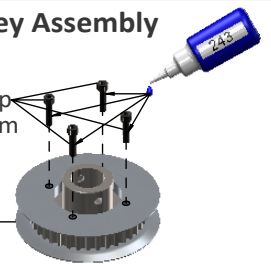
Already Assembled



### Front Tail Pulley Assembly (H0172-S)

Socket Head Cap Screw M2x10mm (HC010-S)

37T Pulley (H0172-S)



Bushing One Way (H0891-S)



One Way Beaing Oil  
eg: HUDY One Way Oil

60T Pulley Assembly (H0171-S)

Bushing One Way (H0891-S)

Washer  $\varnothing 10 \times \varnothing 16 \times 0.2 \text{mm}$  (HC232-S)

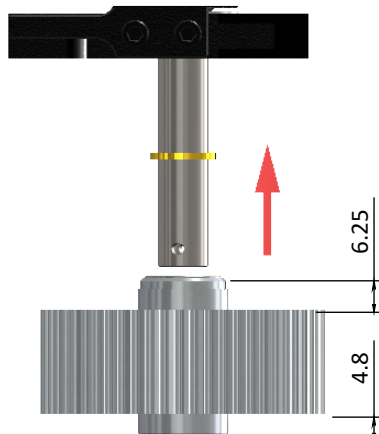
Use it for reduce the play if need

Front Tail Pulley Assembly (H0172-S)

Metric Hex Nylon Nut M2.5 (HC200-S)

Socket Head Cap Screw Shouldered M2.5x19mm (HC033-S)

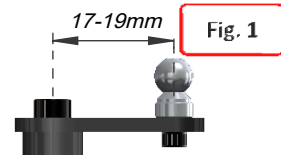
**Note:** Correct insertion of the one-way pulley



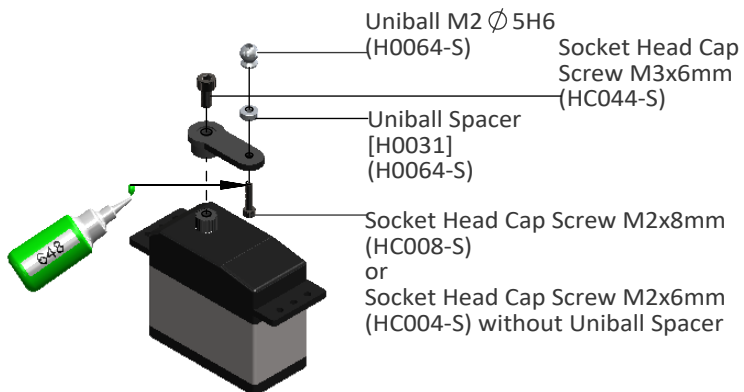


## INSTALLATION OF SWASHPLATE SERVOS

The linkage ball must be positioned between **17-19 mm** out on the servo arm (Figure 1). We recommend metal servo horn the 120° placement of the servos inside Goblin means the arms are difficult to access. For this reason it is advisable to ensure alignment of the servo arms (and sub trim set) before installation of the servos in the model. Proceed with installation following the instructions below.

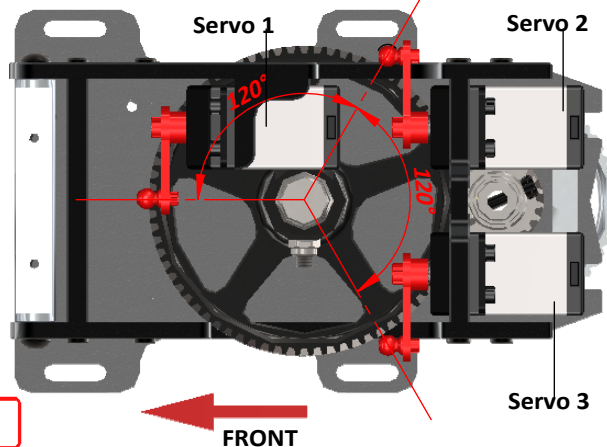


### SERVO ASSEMBLY 1, 2, 3



### ASSEMBLY OF THE BALL ON THE HORN.

The rods going from the servos to the swash plate must be as vertical as possible. Not all servos are equal, so to better align them you can choose to use the supplied spacer H0031. Figure 2 illustrates this.

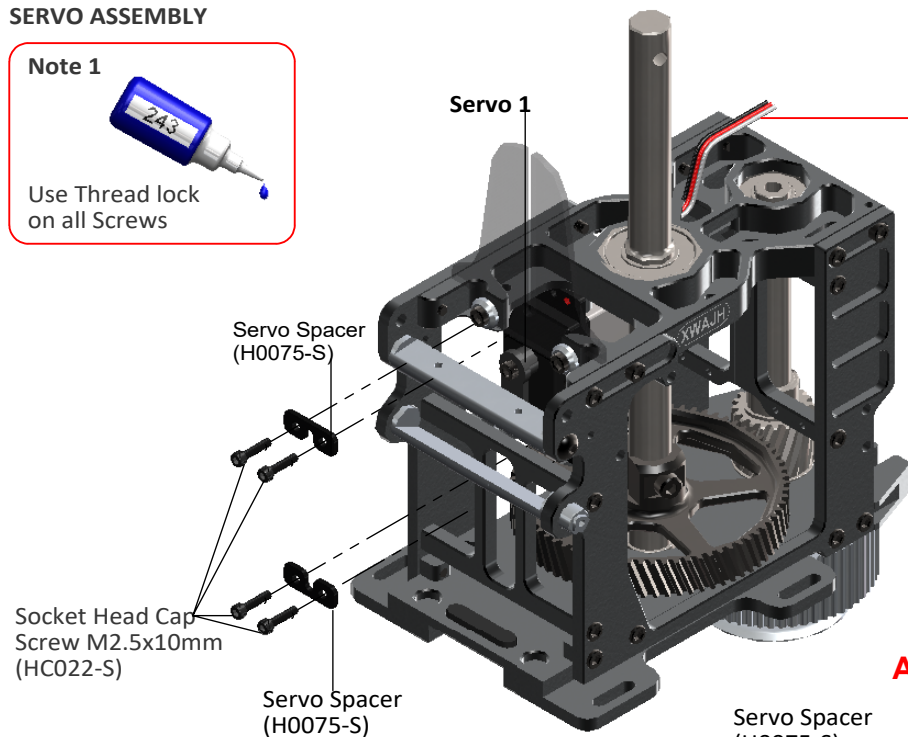


### SERVO ASSEMBLY

#### Note 1

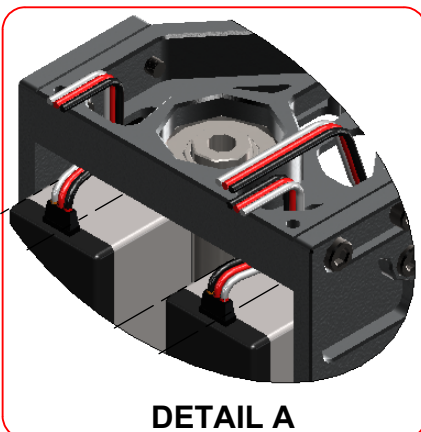


#### Servo 1



#### Note 2:

Please follow the following figures for servo wire positioning.



Socket Head Cap Screw M2.5x10mm (HC022-S)

Servo Spacer (H0075-S)

Socket Head Cap Screw M2.5x10mm (HC022-S)

Servo Spacer (H0075-S)

#### Servo 3

Servo Spacer (H0075-S)

#### Servo 2



### CHOICE OF THE MOTOR PULLEY

It is important to choose the right reduction ratio to maximize efficiency based on your required flight performance.

It is recommended to use wiring and connectors appropriate for the currents generated in a helicopter of this class.

If you are using a head speed calculator which requires a main gear and pinion tooth count, use **214** teeth for the main gear (this takes into account the two stage reduction) and the tooth count of your pulley as the pinion count.

**Below is a list of available reduction ratios:**

H0175-18-S - 18T Pinion = ratio 11.9:1

H0175-22-S - 22T Pinion = ratio 9.8:1

H0175-19-S - 19T Pinion = ratio 11.3:1

H0175-23-S - 23T Pinion = ratio 9.3:1

H0175-20-S - 20T Pinion = ratio 10.7:1


H0175-24-S - 24T Pinion = ratio 8.9:1

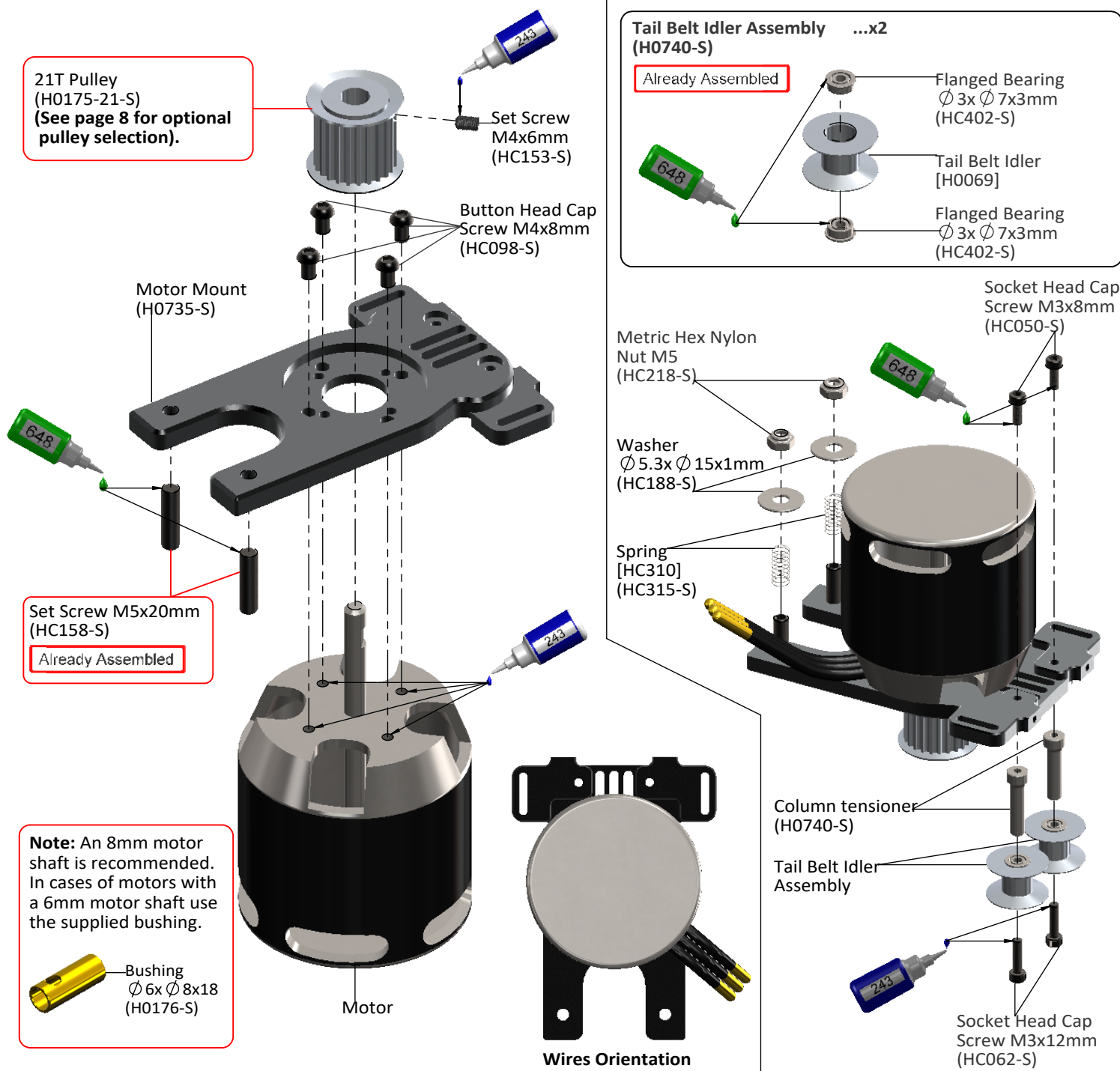
H0175-21-S - 21T Pinion = ratio 10.2:1

H0175-25-S - 25T Pinion = ratio 8.6:1

**Some example configurations:**

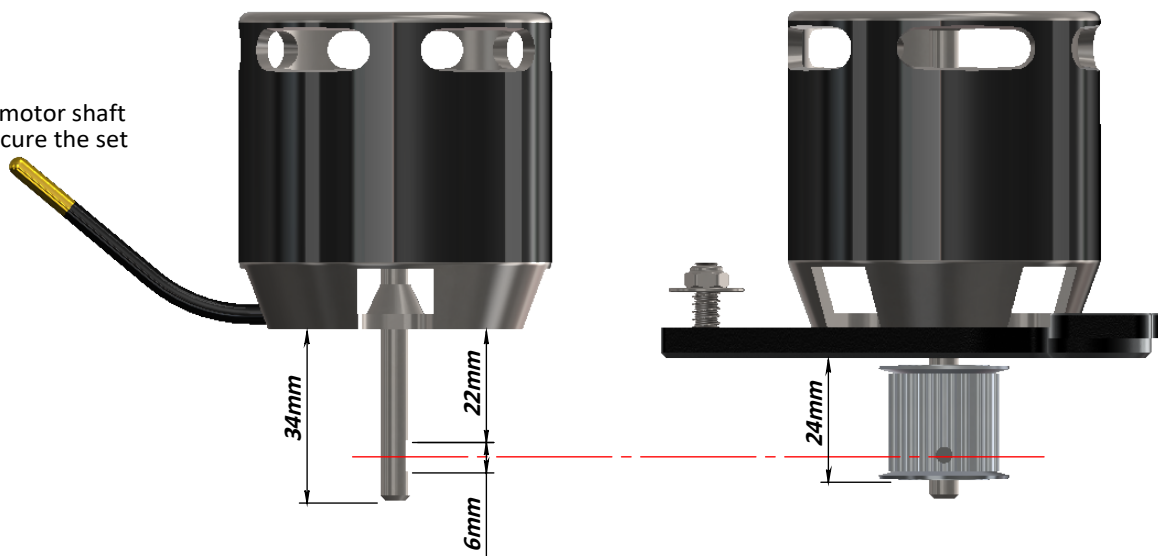
GOBLIN COMET CONFIGURATIONS				
				Rev:01
Battery	Motor	Motor Pulley	RPM Max	Pitch
Sport and Acrobatic Flight				
12S  5000/5800 mAh	Kontronik Pyro 850-500 Scorpion HK-4535-500KV	23	2200	±13
		24	2280	±13
		25	2350	±13
	Xnova 4535-520KV	22	2150	±13
		23	2250	±13
		24	2300	±13
14S  4300/5000 mAh	Kontronik Pyro 850-500 Scorpion HK-4535-500KV	20	2150	±13
		21	2250	±13
		22	2350	±13
	Xnova 4535-520KV	19	2150	±13
		20	2250	±13
		21	2350	±13
Speed Flight				
14S  4300/5000 mAh	Kontronik Pyro 850-500 Scorpion HK-4535-500KV	22	2400 *	-10 / +16
		23	2500 *	-10 / +16
		24	2600 *	-10 / +16
	Xnova 4535-520KV	21	2400 *	-10 / +16
		22	2500 *	-10 / +16
		23	2600 *	-10 / +16
	Kontronik Pyro 1000-480	23	2400 *	-10 / +16
		24	2500 *	-10 / +16
		25	2600 *	-10 / +16
	Xnova 50xx-535KV Scorpion HK-5040-530KV	22	2550 *	-10 / +16
		23	2650 *	-10 / +16
		24	2750 *	-10 / +16

\*  The high RPM flight condition should only be used while away from the pilot ( at least 30 meters).  
Speed passes should always be made longitudinally to the pilot and spectators and always at a safe distance.



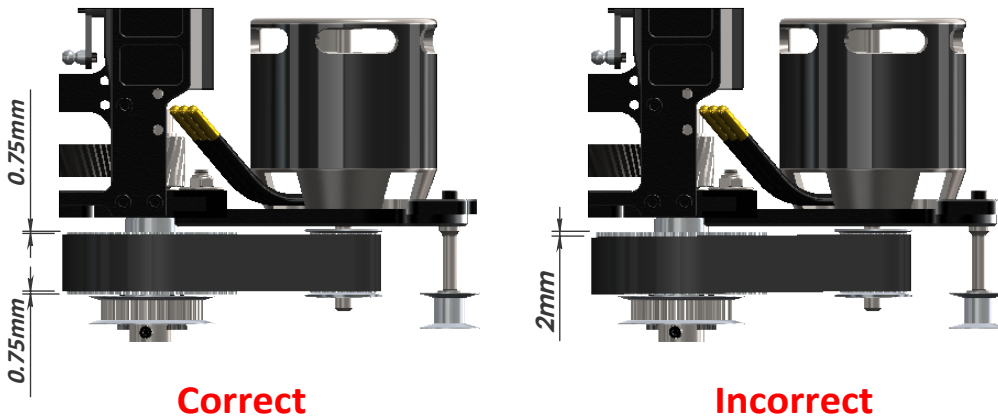
## Note for motor shaft

Additionally, ensure that the motor shaft has an appropriate 'flat' to secure the set screw of the motor.



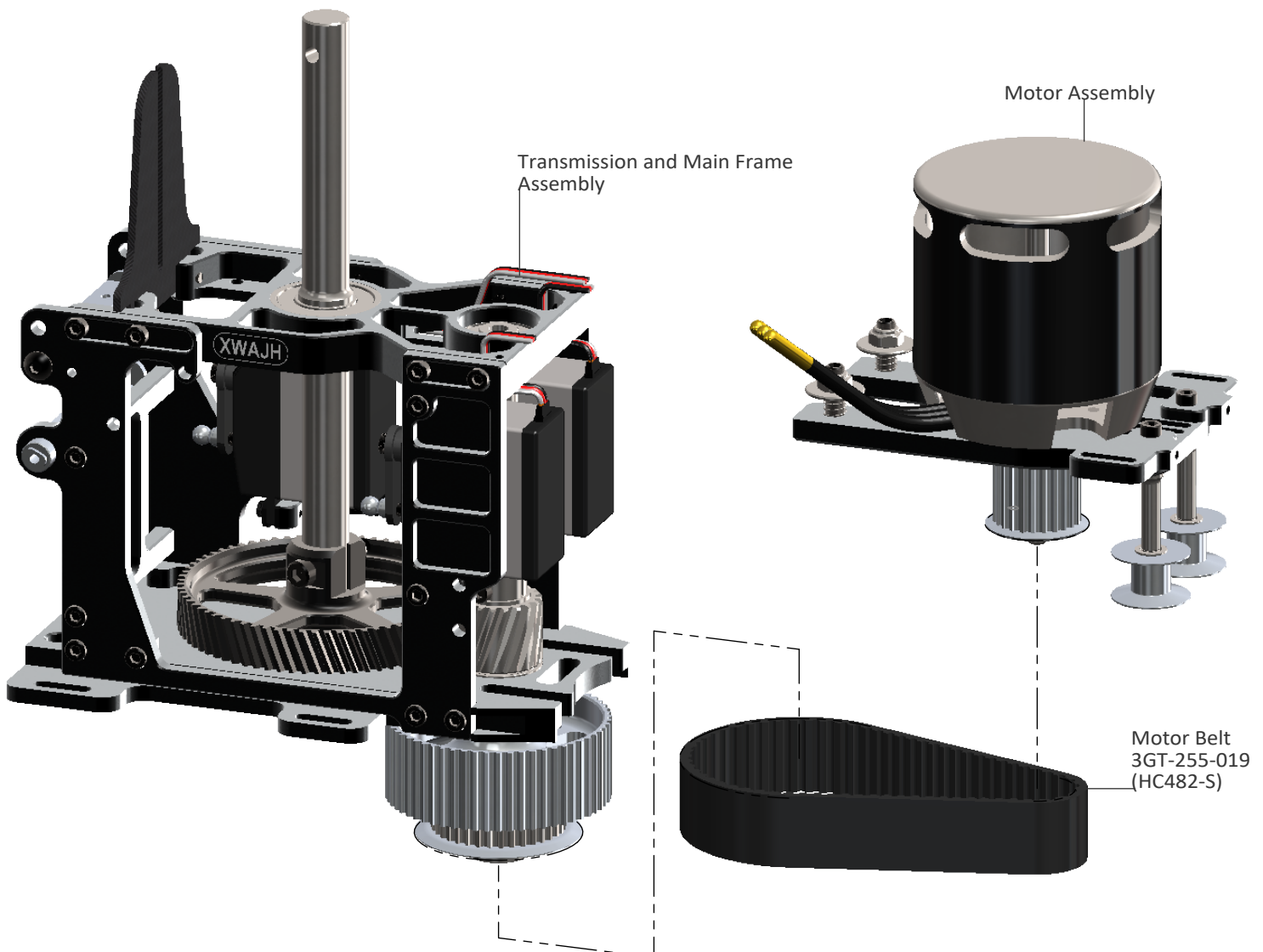
## MOTOR BELT TENSION

- \* Assemble the motor and pinion to its mounting plate.
- \* Fit the motor assembly into position.
- \* With the minimum centre distance it is easy to install the belt. First put the belt on the motor pinion.
- \* Then put the belt around the big pulley.
- \* Rotate the motor several times by hand.
- \* **The belt must be tight. The motor plate will start to bend abit .... ( until 0.5mm is normal ).**
- \* Lock all screws.



### Note

Check for vertical alignment of the motor pulley. To do this, turn the motor several times and check to you see if the belt is aligned with the big pulley (one way bearing pulley). If the belt is riding too high, simply loosen the motor pulley and drop it a small amount, if it is riding too low, loosen the motor pulley and raise it a small amount.

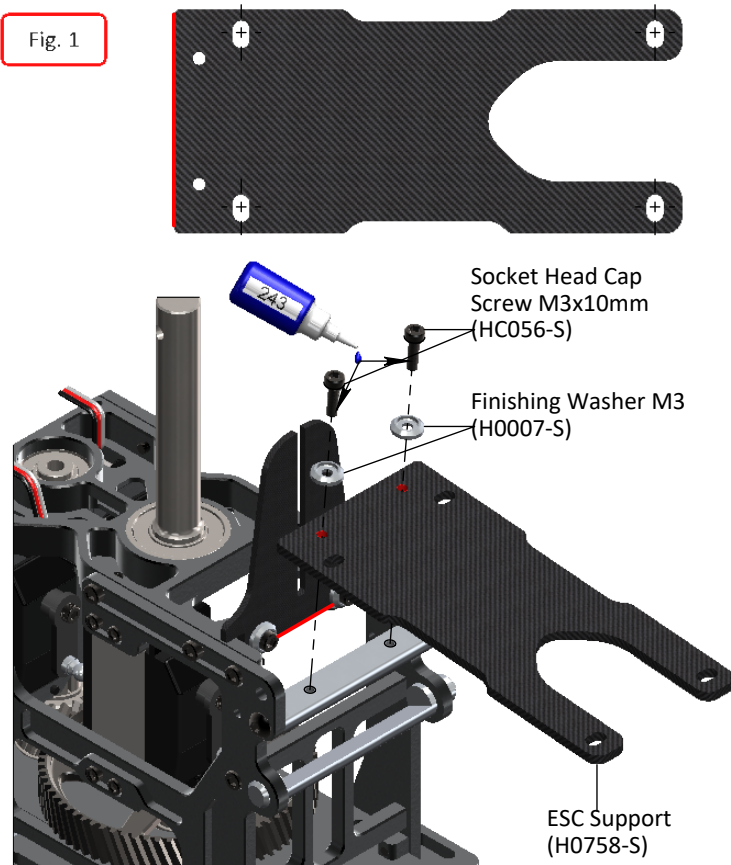


**ESC INSTALLATION**

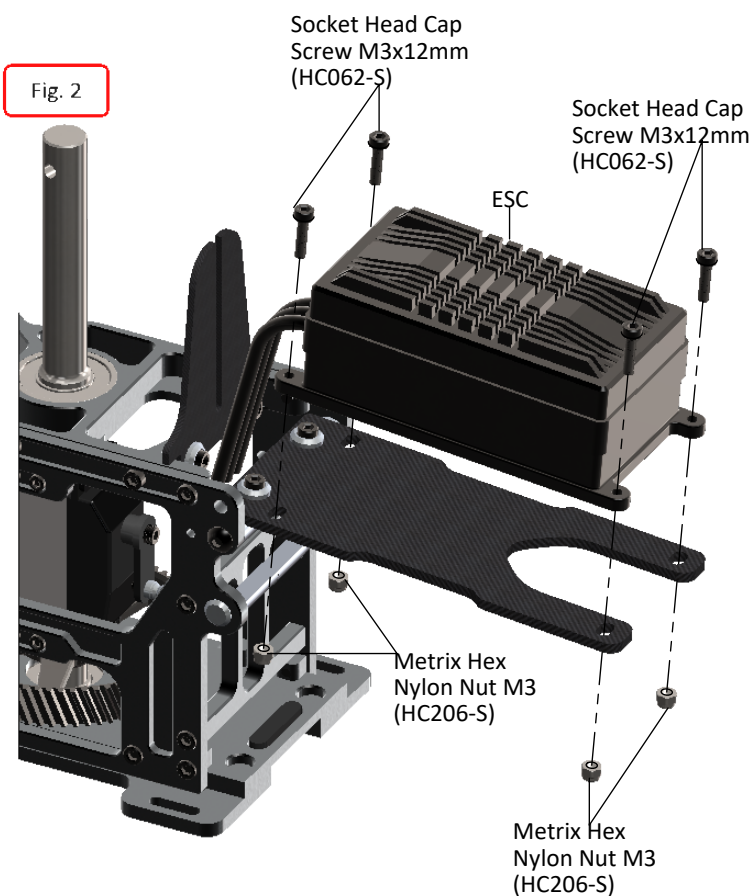
The speed controller (ESC) is installed in the front of the helicopter.

**Figure 1:** Shows the installation of the ESC support.

**Note:** We recommend de-burring the edges to minimize the risks of electrical wire cuts, etc. Very important in red line zone.

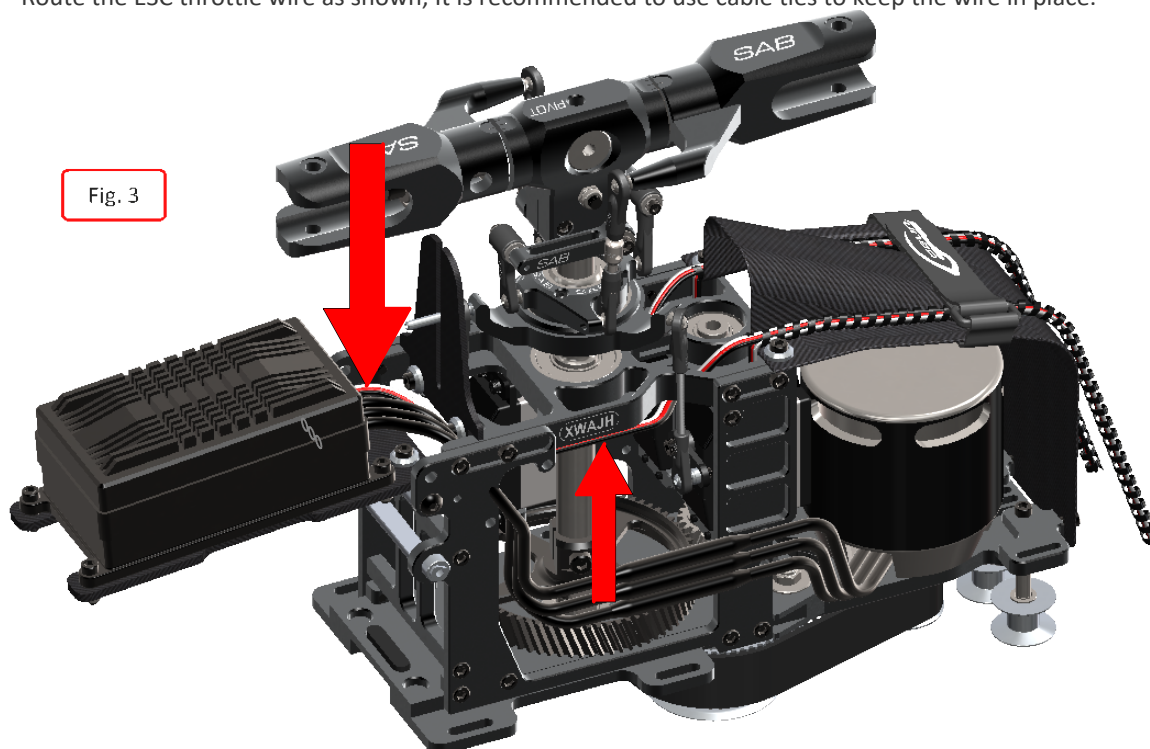


**Figure 2:** Shows the installation of the ESC.



**Figure 3:** You can see the wiring for connecting the ESC to the central unit.

Route the ESC throttle wire as shown, It is recommended to use cable ties to keep the wire in place.





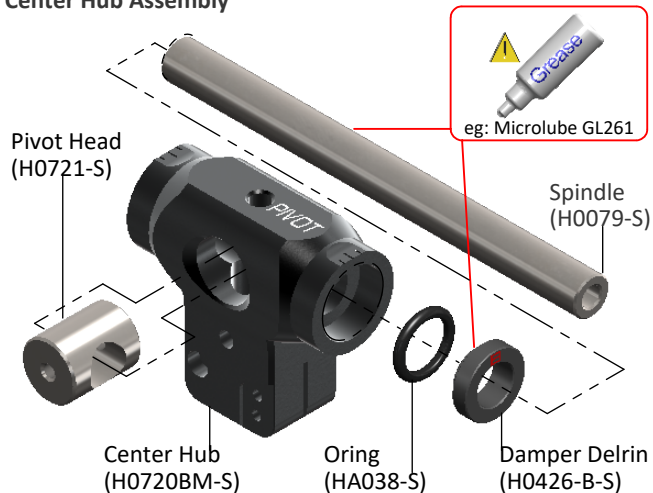
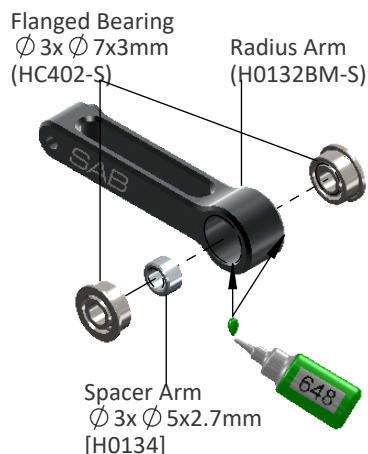
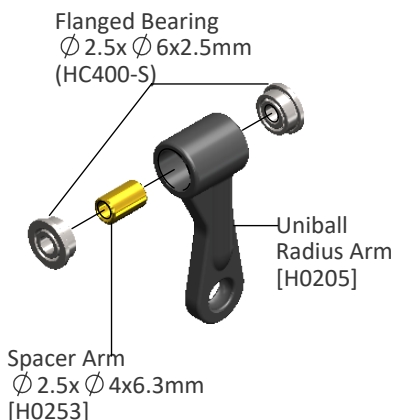
### Uniball Arm Assembly

... x2

### Radius Arm Assembly

... x2

### Center Hub Assembly

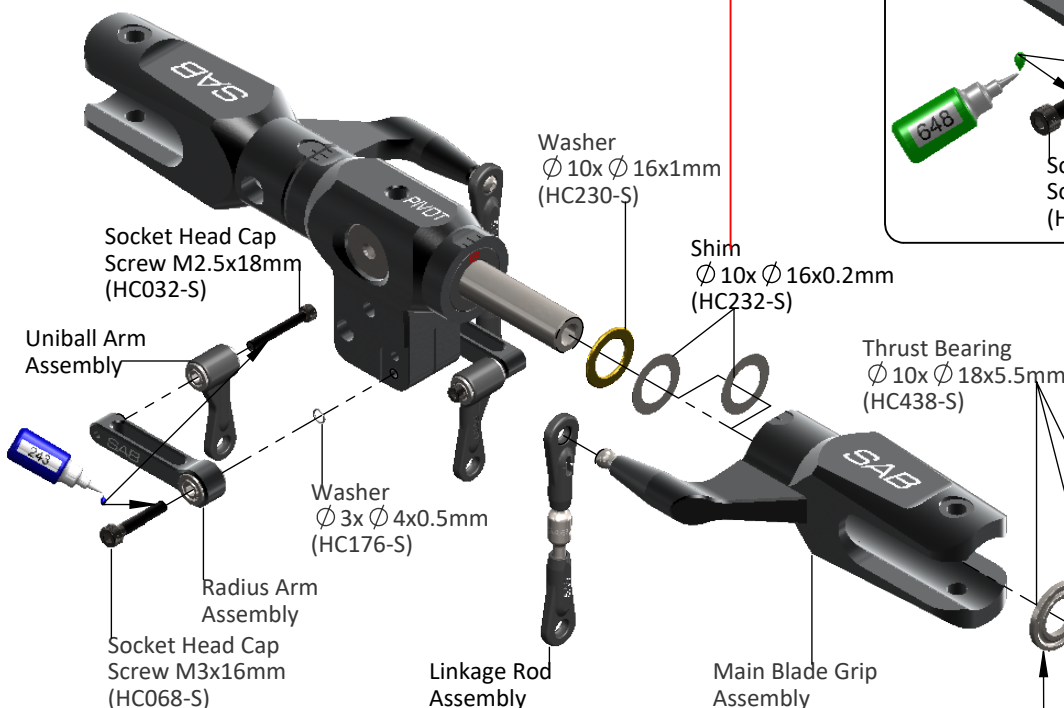
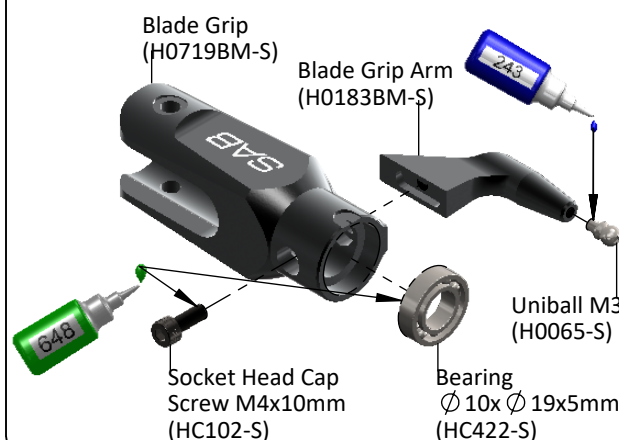


#### Note:

The HPS head should be assembled with one, 1mm shim (HC230) and one, 0.2mm shim (HC232) on each side. The blade grips must move freely, but they should not move just under their own weight. If the blade grips are too tight, you can remove the 0.2mm shim (HC232) from each side. After approximately 10/20 flights, please check preload, you can add one or two 0.2mm shim (HC232) if preload has changed.

### Main Blade Grip Assembly

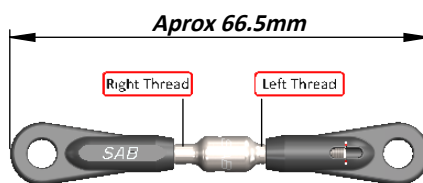
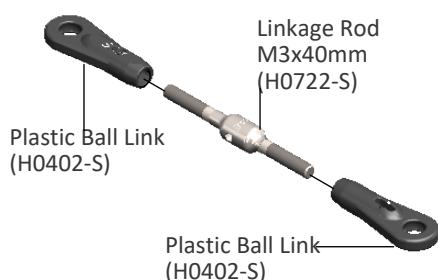
...x2



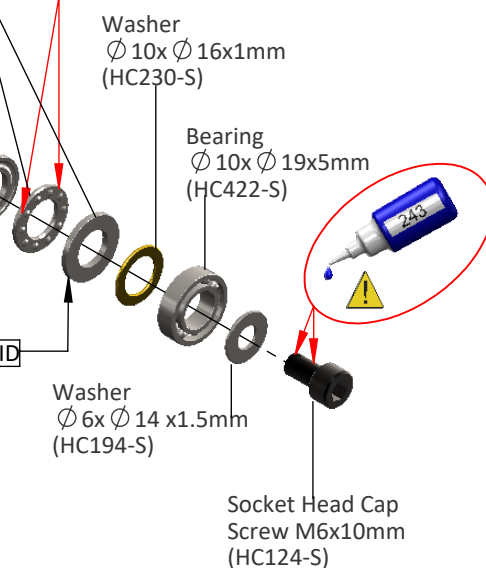
Note: Larger ID

Note: Smaller ID

### Linkage Rod A Assembly ...x2

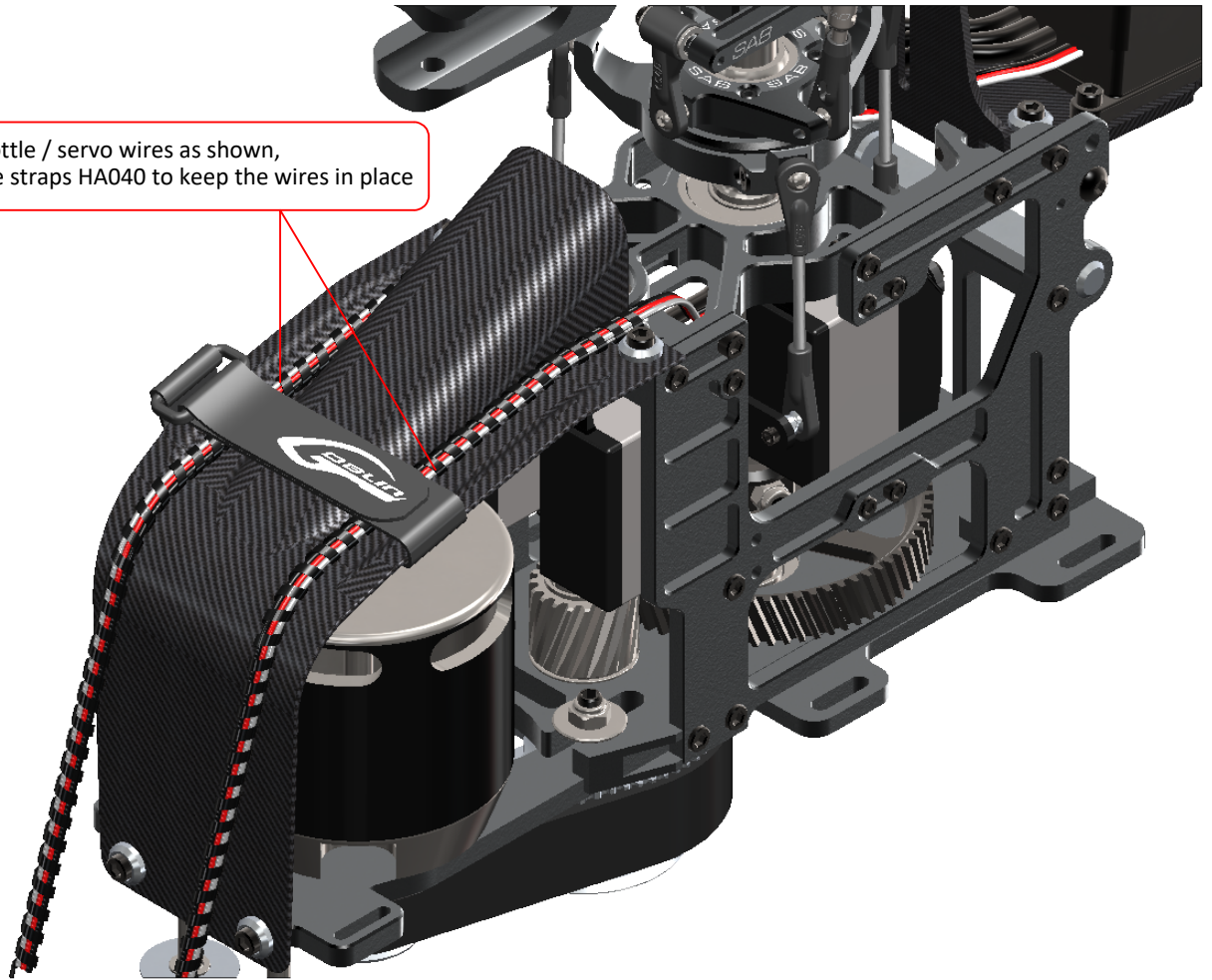


(Initial length for the rods from the swashplate to the Blade Grip.)





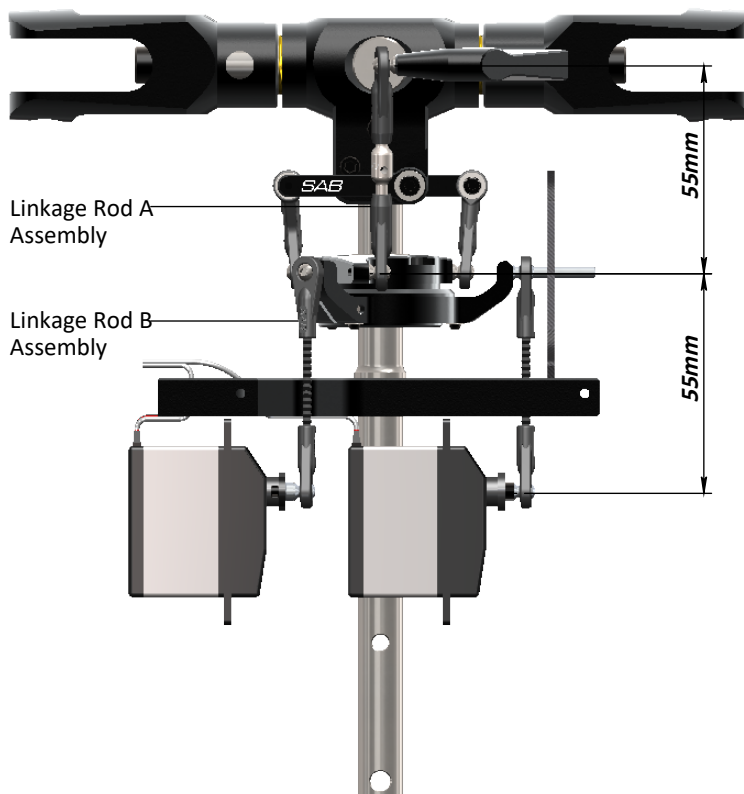
**Note:** Route the ESC throttle / servo wires as shown, It is recommended to use straps HA040 to keep the wires in place



### Head Preliminary Setup

Adjust the linkage as shown. The linkage Rod A has thread right/left.

**Note:** For Speed flight you can consider assymetrical pitch setup ( ex:  $-10^{\circ}$  /  $+16^{\circ}$  ).



#### Linkage Rod A Assembly ... x2

Aprox 65.5mm



Plastic ball link  
(H0402-S)

Linkage Rod  
(H0722-S)

Plastic ball link  
(H0402-S)

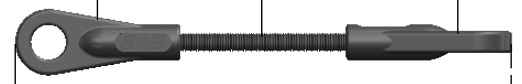
Initial length for the rods from the swashplate to the blade grips.

#### Linkage Rod B Assembly ... x3

Set Screw M2.5x40mm  
(HC242-S)

Plastic ball link  
(H0066-S)

Plastic ball link  
(H0066-S)

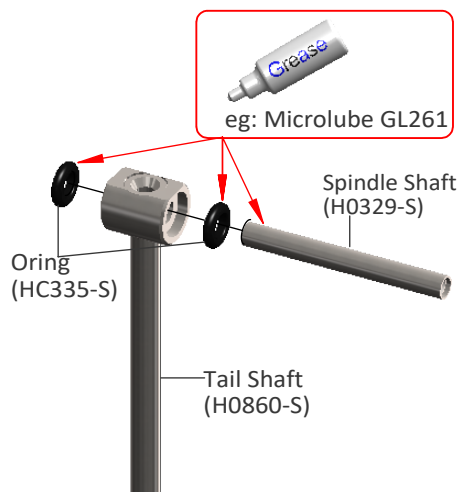


Aprox. 65 mm

Initial length for the rods from the servos to the swash plate

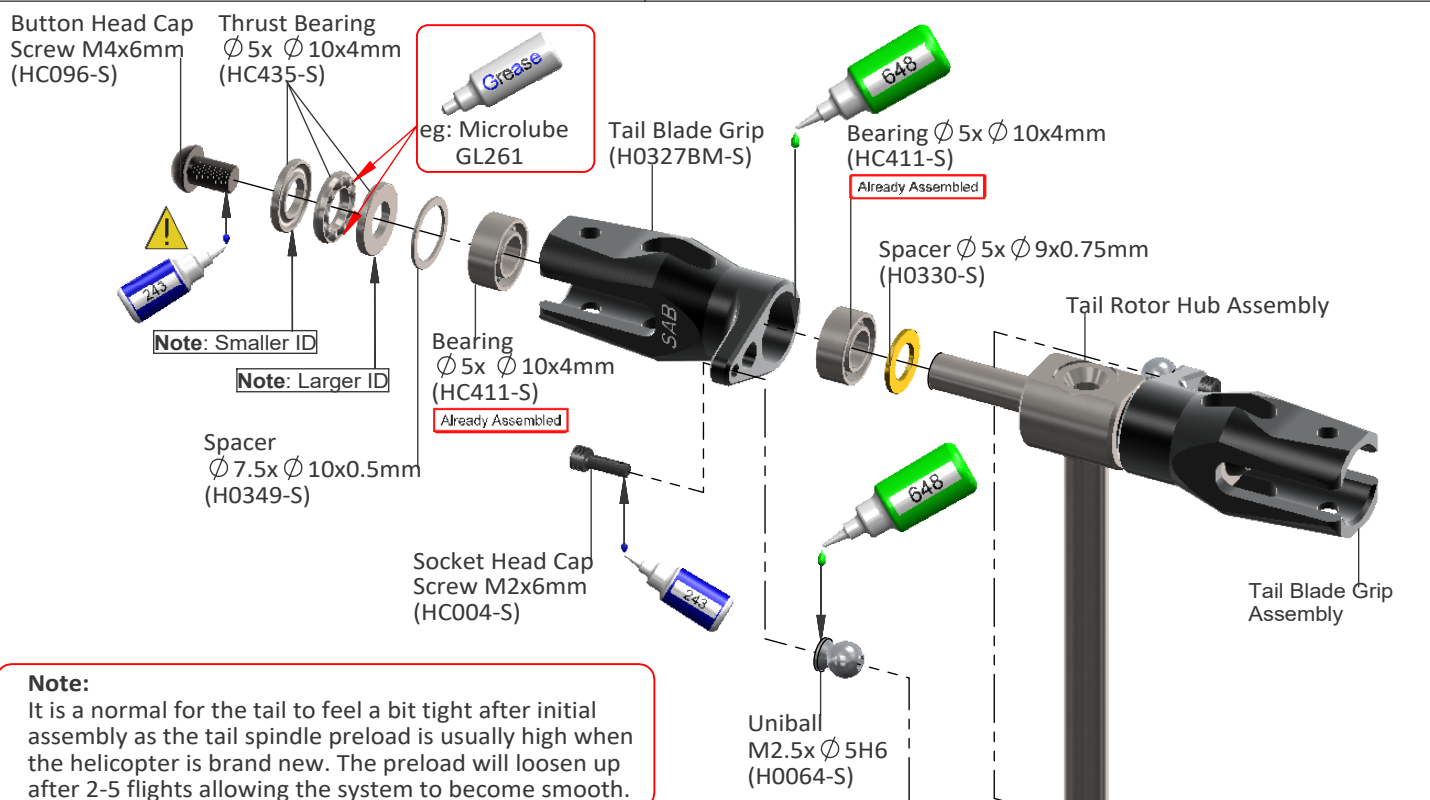
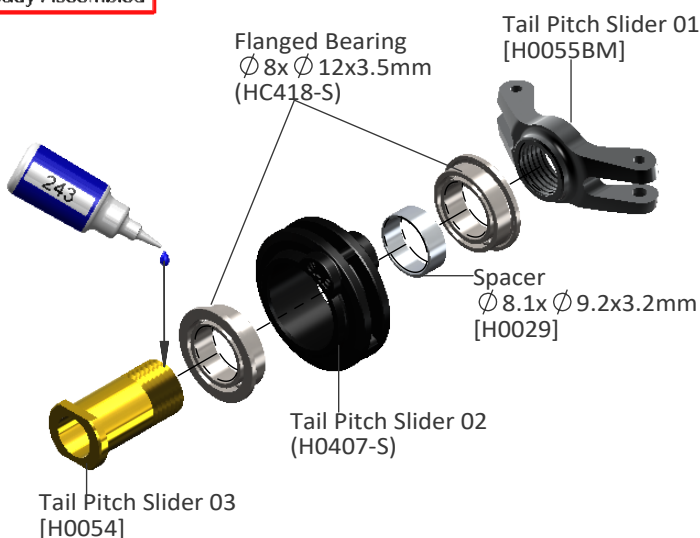


### Tail Rotor Hub Assembly

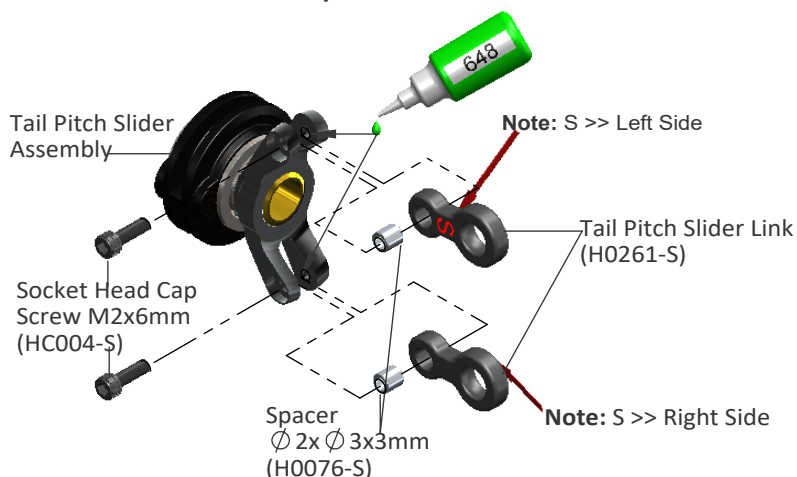


### Tail Pitch Slider Assembly

Already Assembled

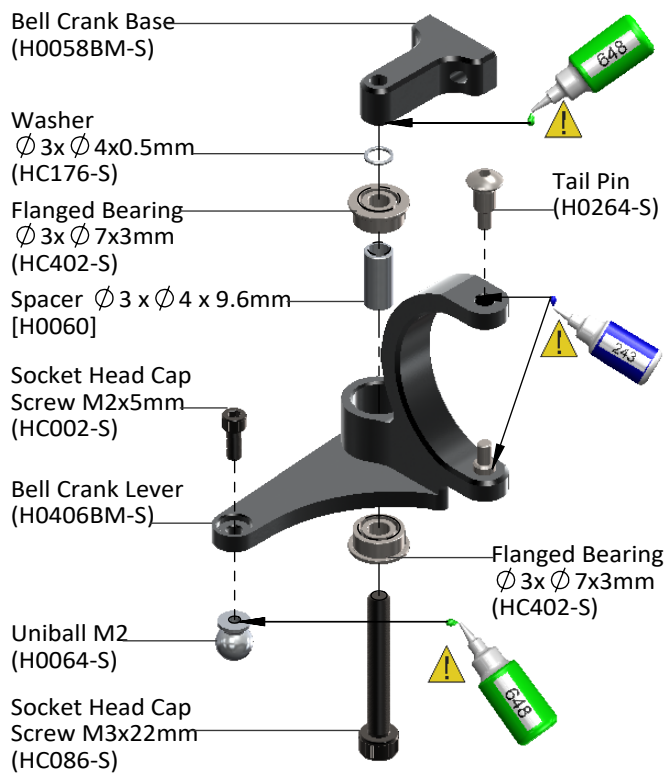


### Tail Pitch Slider Link Assembly

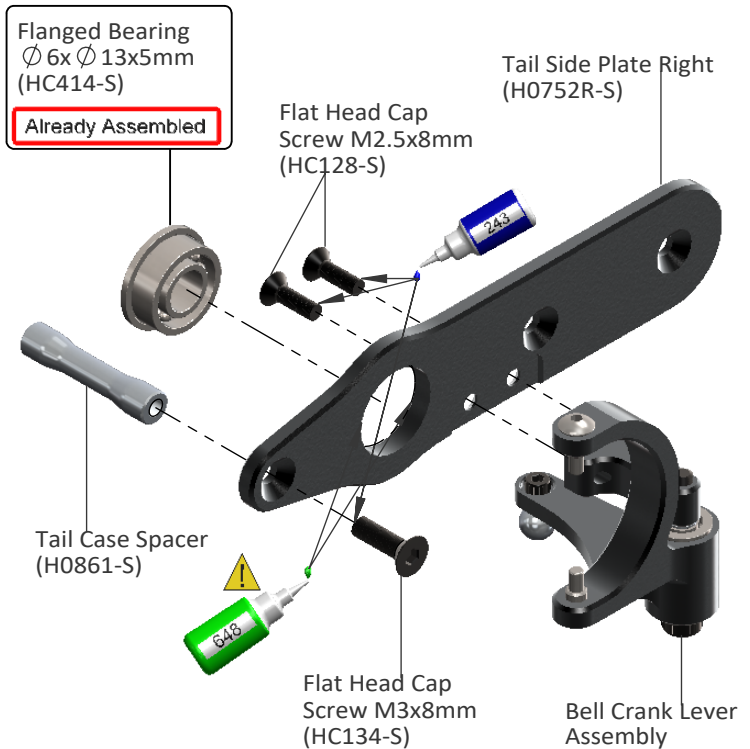




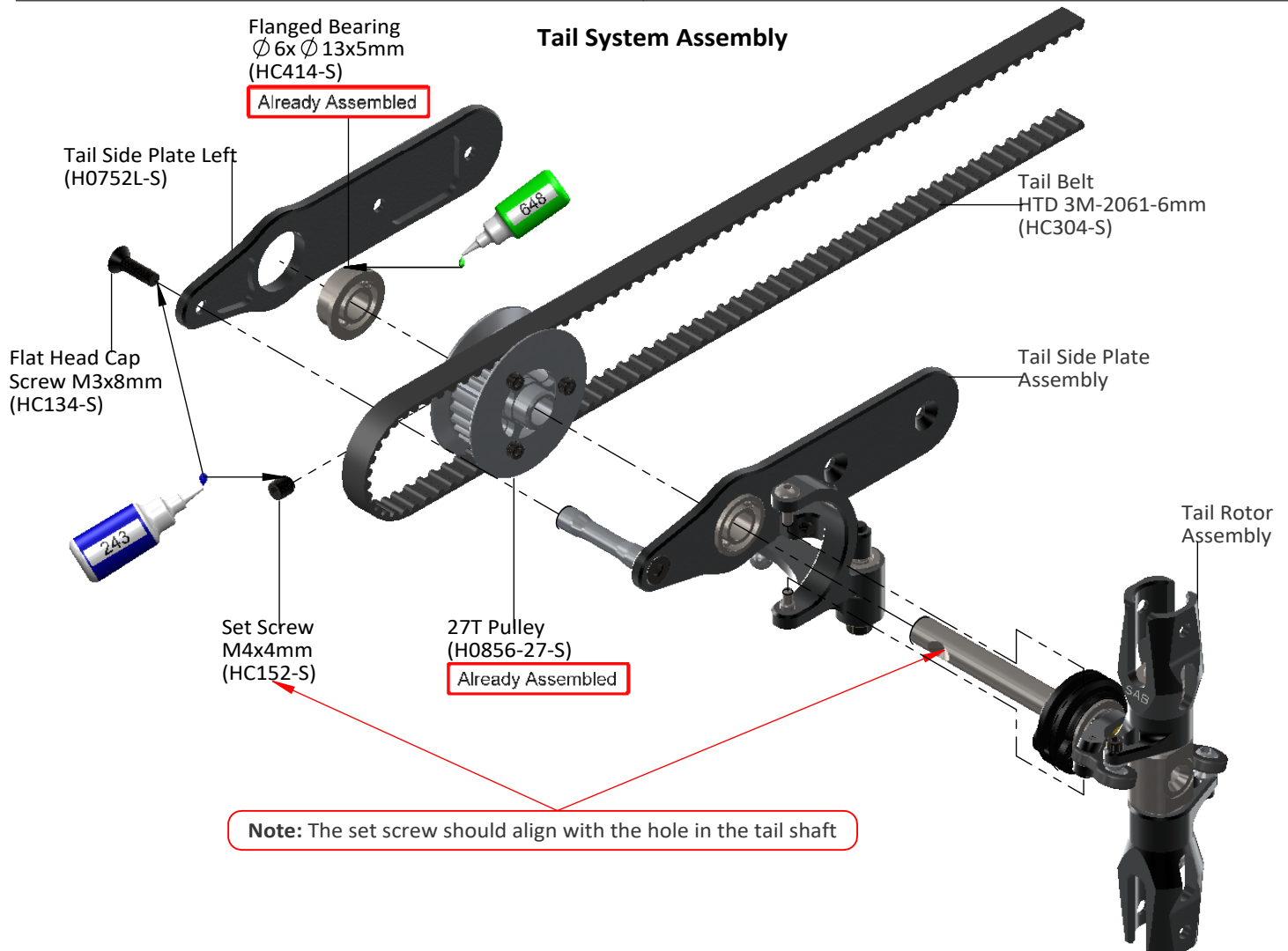
## Bell Crank Lever Assembly



## Tail Side Plate Assembly



## Tail System Assembly



## Tail Servo Assembly

The distance between the axis and the ball must be between 15-16mm

15-16mm

Tail Servo Support (H0751-S)

Servo Spacer (H0075-S)

Socket Head Cap Screw M2.5x10mm (HC022-S)

## Tail Servo Assembly

Uniball M2 Ø 5H6 (H0064-S)

Tail Servo

Socket Head Cap Screw M2x6mm (HC004-S)

## Carbon Rod Assembly

Plastic Ball Link (H0066-S)

Threaded Rod M2.5x40mm (HC242-S)

Carbon Rod Ø 4x Ø 2.5x1045mm (HC481-S)

Threaded Rod M2.5x40mm (HC242-S)

4mm

13mm

Double Sided Tape (HA022-S)

Nylon Nut M3 (HC206-S)

[HA022-S]

Locking Element Tail Assembly (H0249-S)

## TAIL BOOM ASSEMBLY

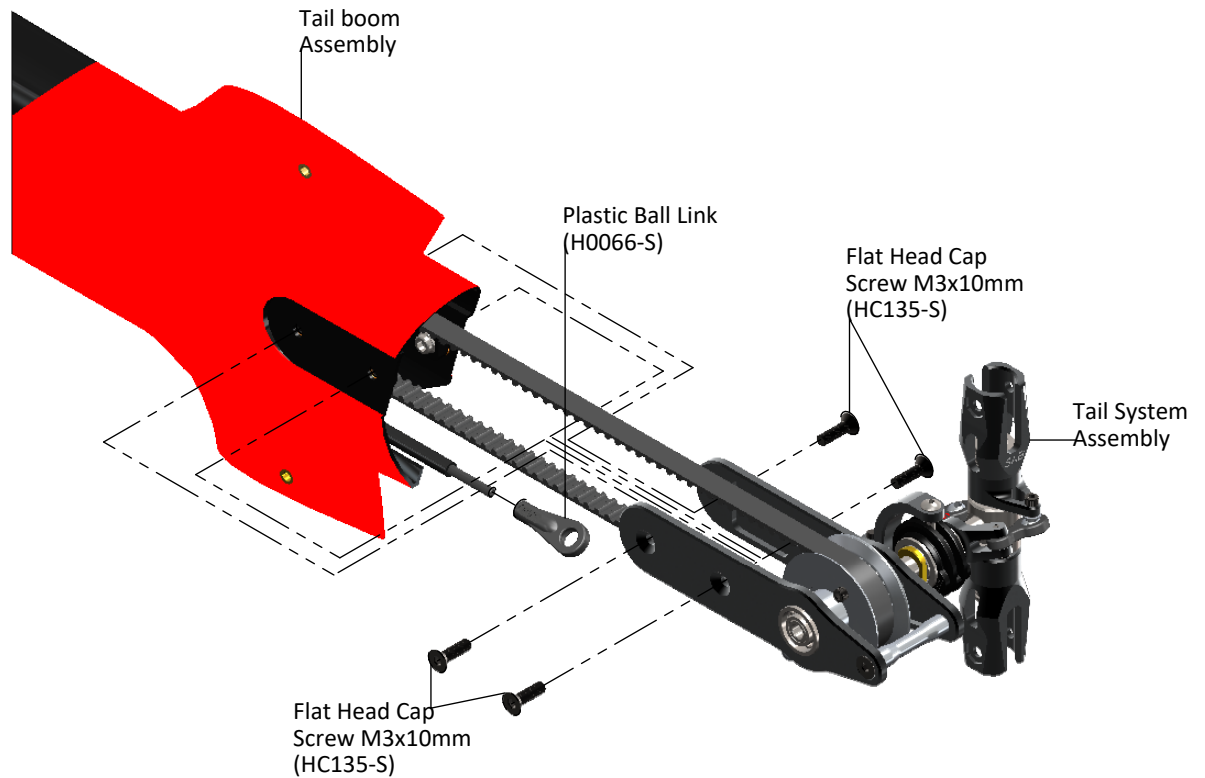
Black / Red Boom COMET (H0878-S)  
Yellow / Red Boom COMET (H0880-S)

Tail Servo Assembly

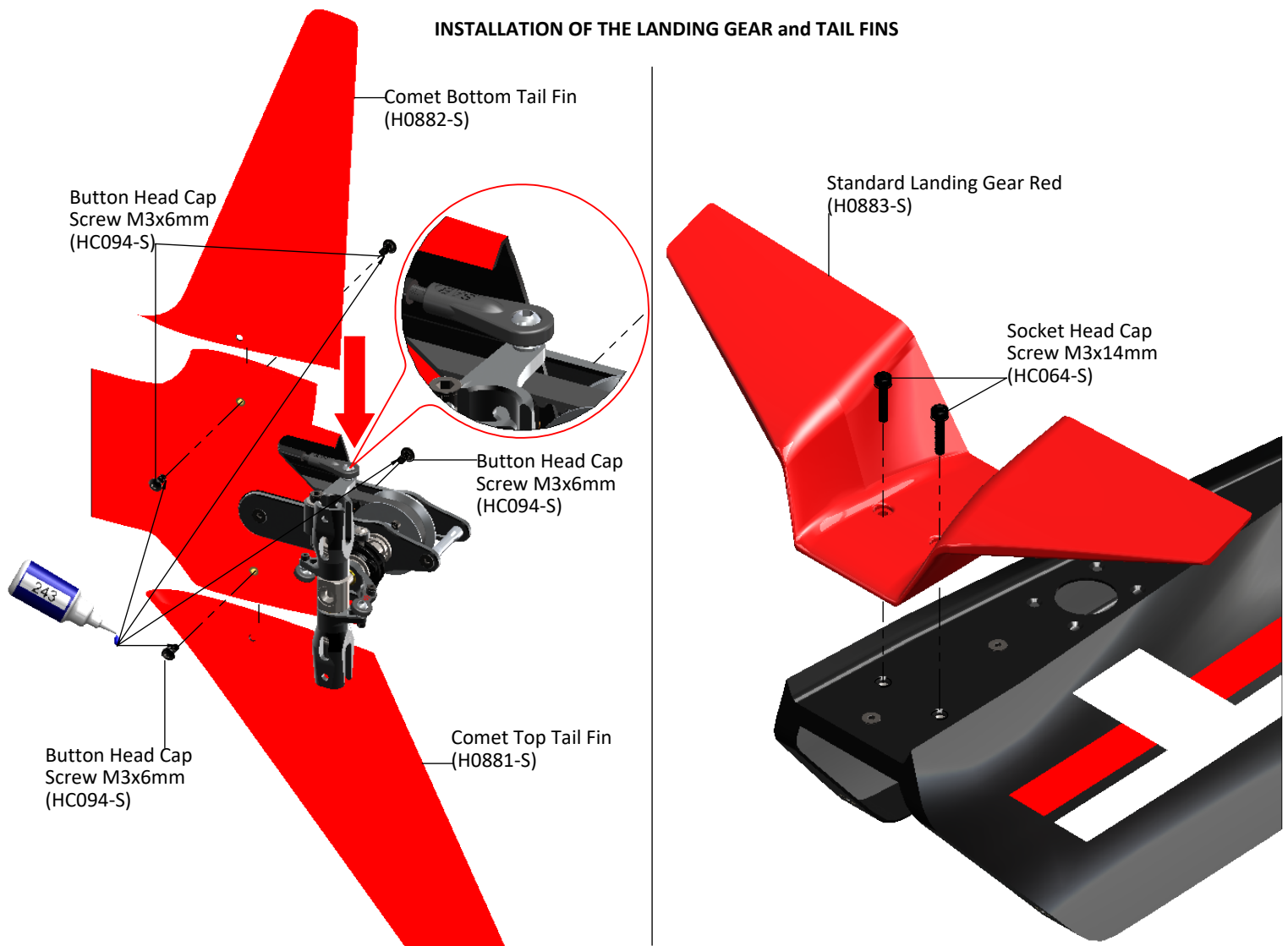
Carbon Rod Assembly

Note:  
Guide the carbon rod assembly through the tube.  
Add Lubricant to improve smoothness

Flat Head Cap Screw M3x8mm (HC134-S)



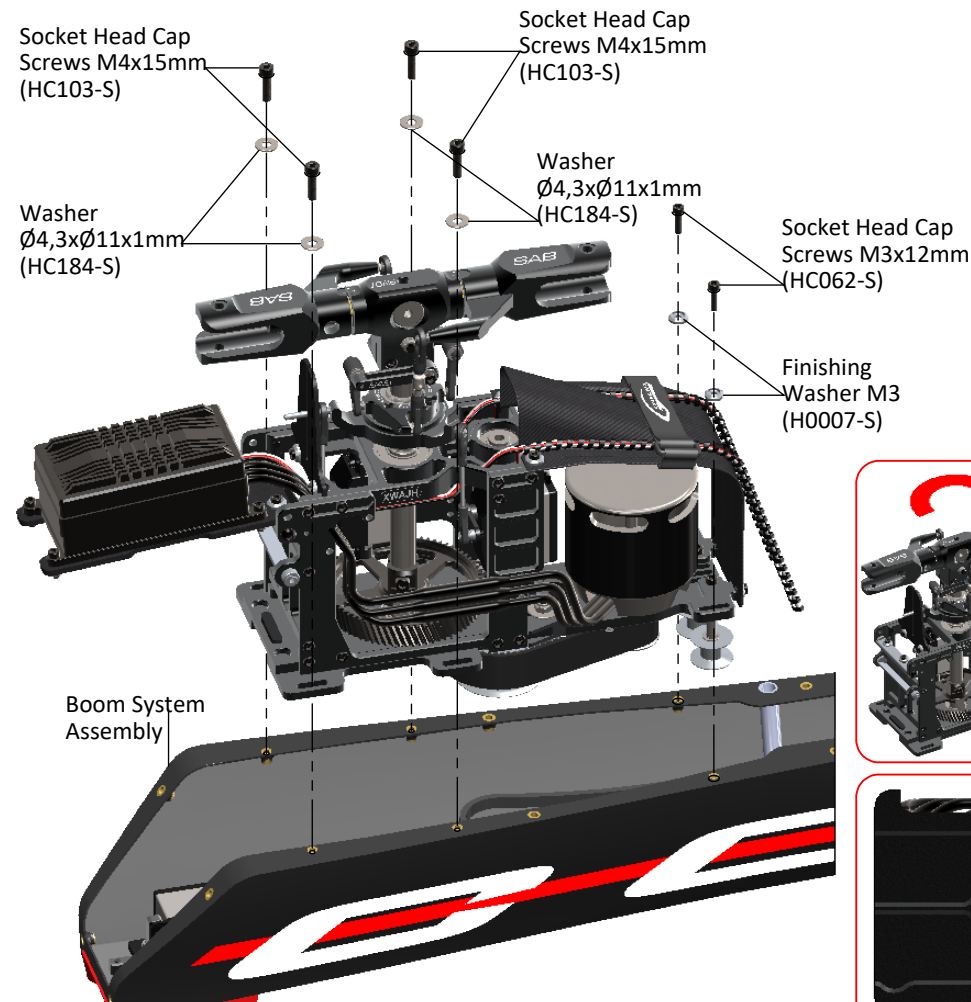
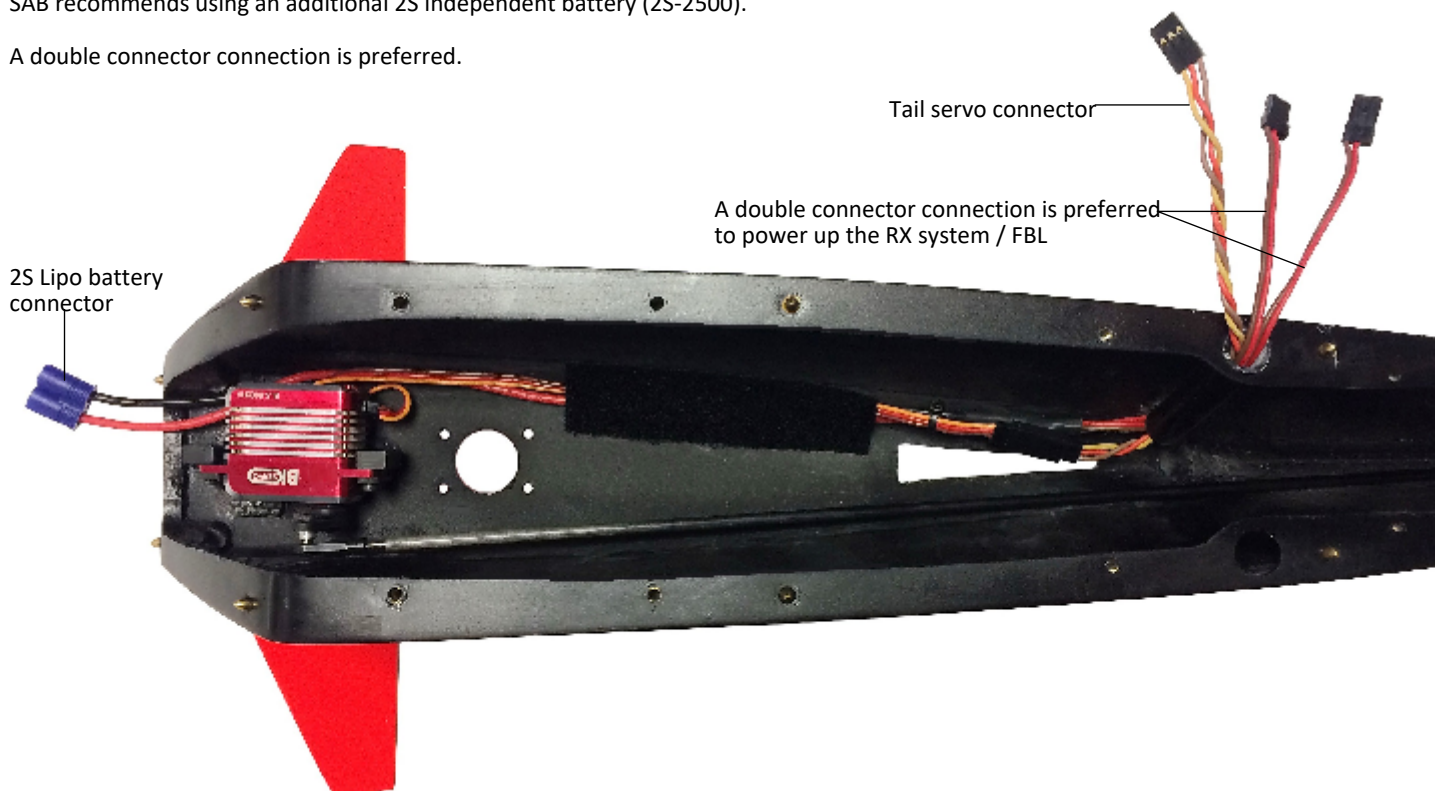
#### INSTALLATION OF THE LANDING GEAR and TAIL FINS



**TAIL SERVO / RX BATTERY WIRES**

Before assembling the transmission module, it is necessary to set up the connection of the servo and 2S power supply. SAB recommends using an additional 2S independent battery (2S-2500).

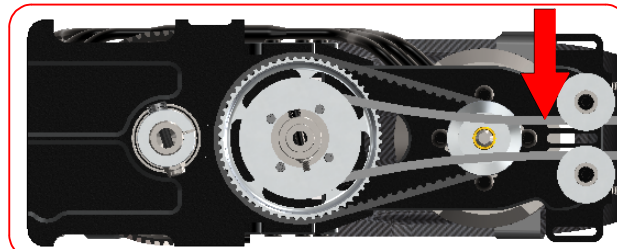
A double connector connection is preferred.



Note:



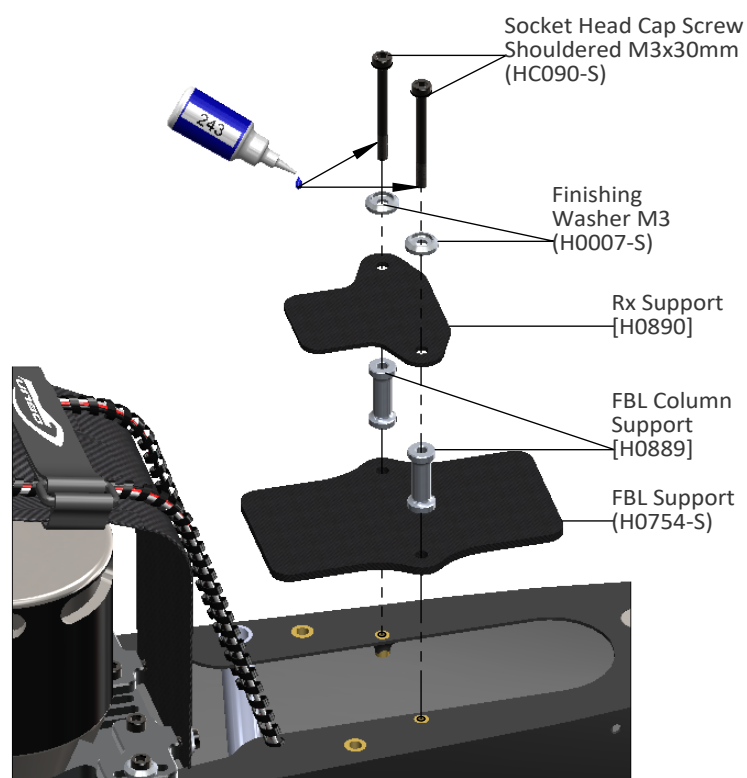
Use Thread lock on all Screws





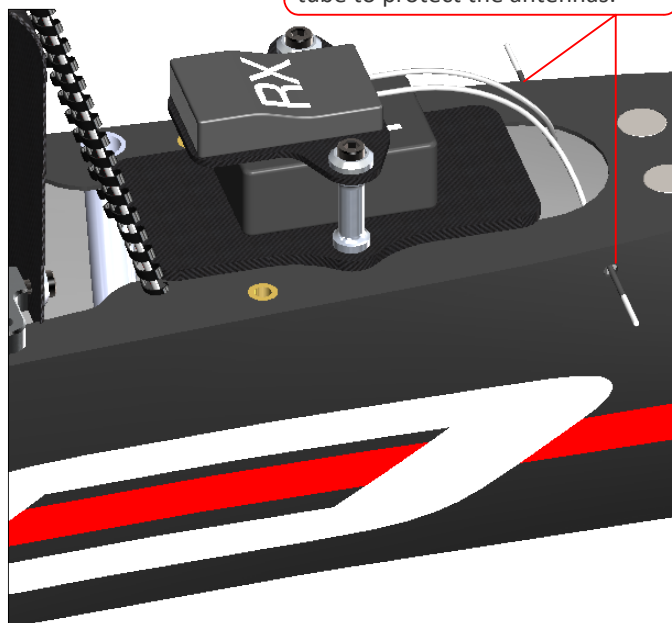
## FLYBARLESS SYSTEM

The FBL unit have to be installed on the FBL support H0754. Please check the following picture.

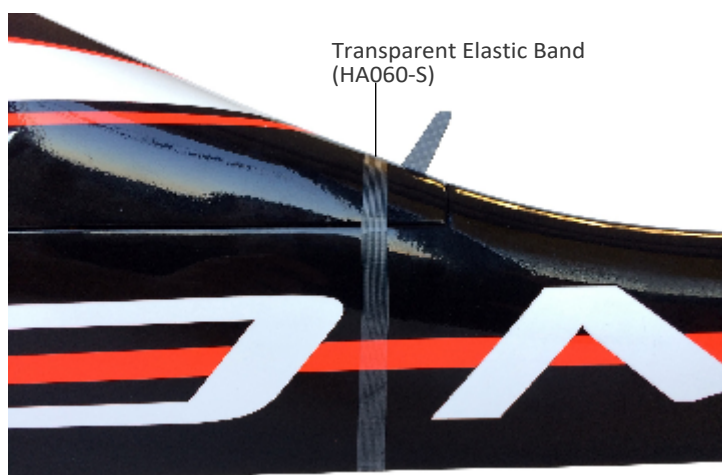


**Note:** We recommend to make 2 hole in the fuselage to position the antenna wires.

Please glue a small piece of plastic tube to protect the antennas.



## CANOPY / FUSELAGE



Transparent Elastic Band (HA060-S)

The COMET canopy uses a magnetic locking system. Use the lever to remove it.

Fit the canopy starting from the bottom pins. (See the pics)

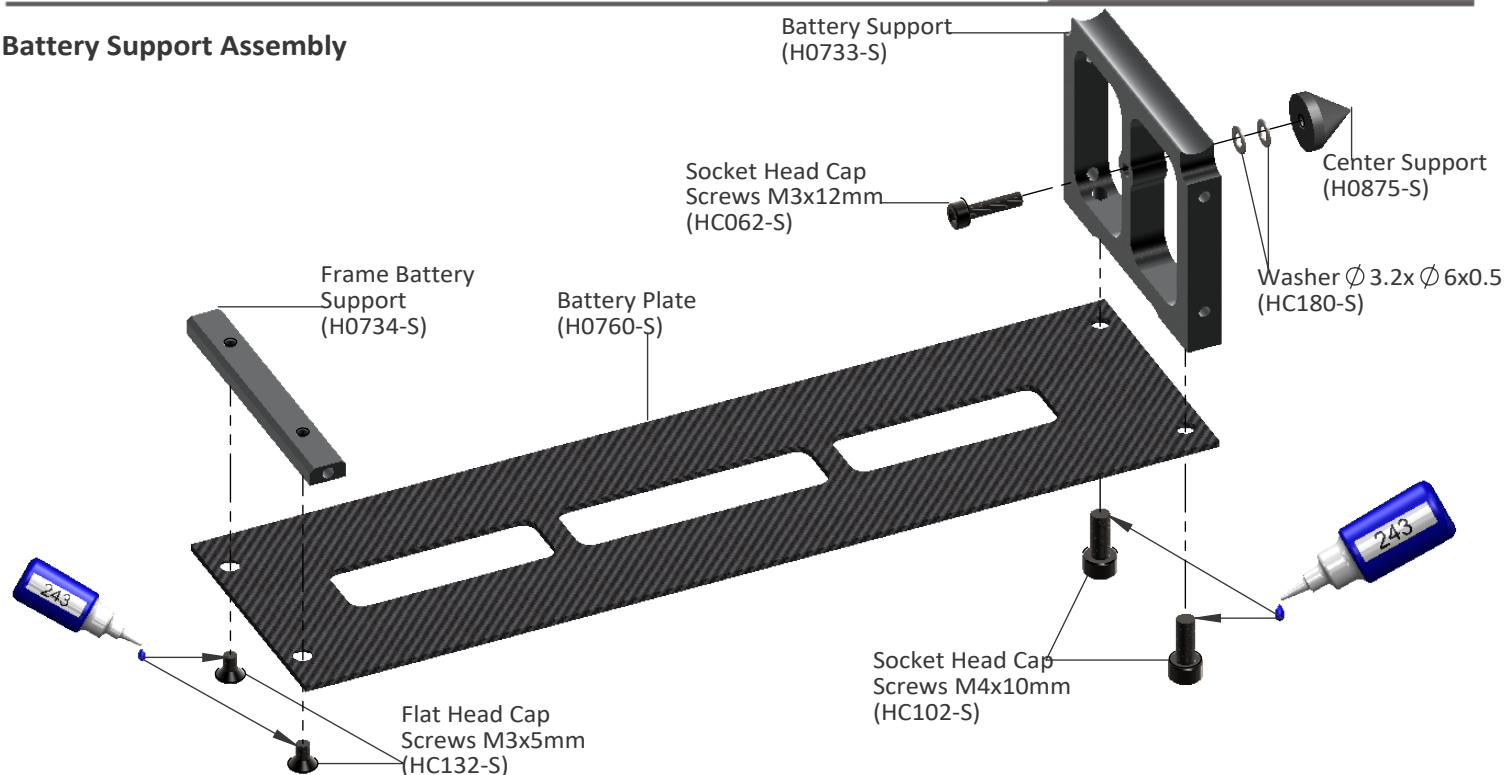
During the " Speed flight " ( Very important during the setup flight ) we recommend the use of elastic to hold the canopy in position.



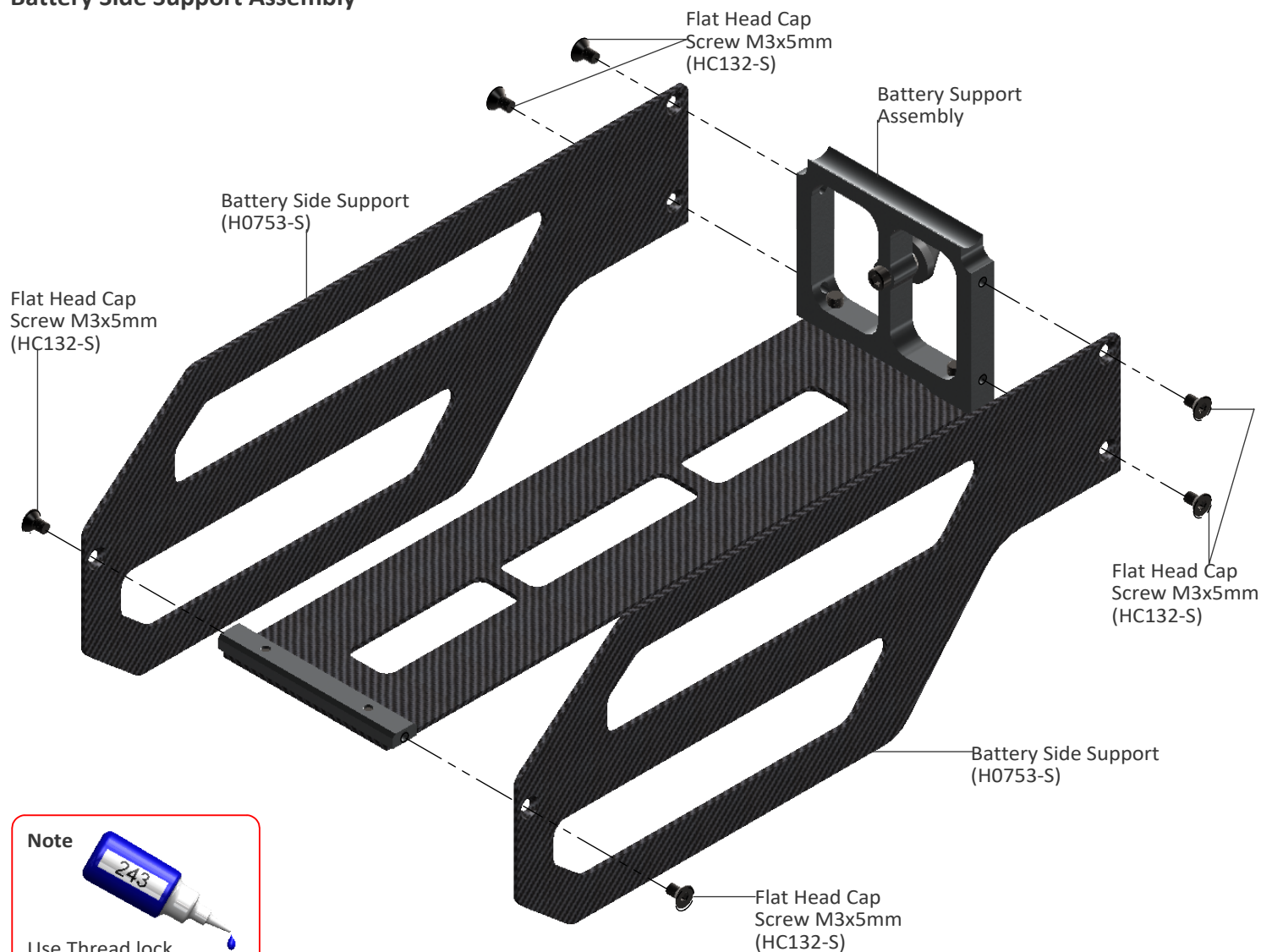
Performing a hard upward pitch may cause the fuselage to deform making it high risk that the canopy will move from it's original position.

The boom zone uses a "carbon sandwich" solution. Excessive localized pressure can damage the structure internally. Please be careful, for example, do not crush with your hands.

## Battery Support Assembly

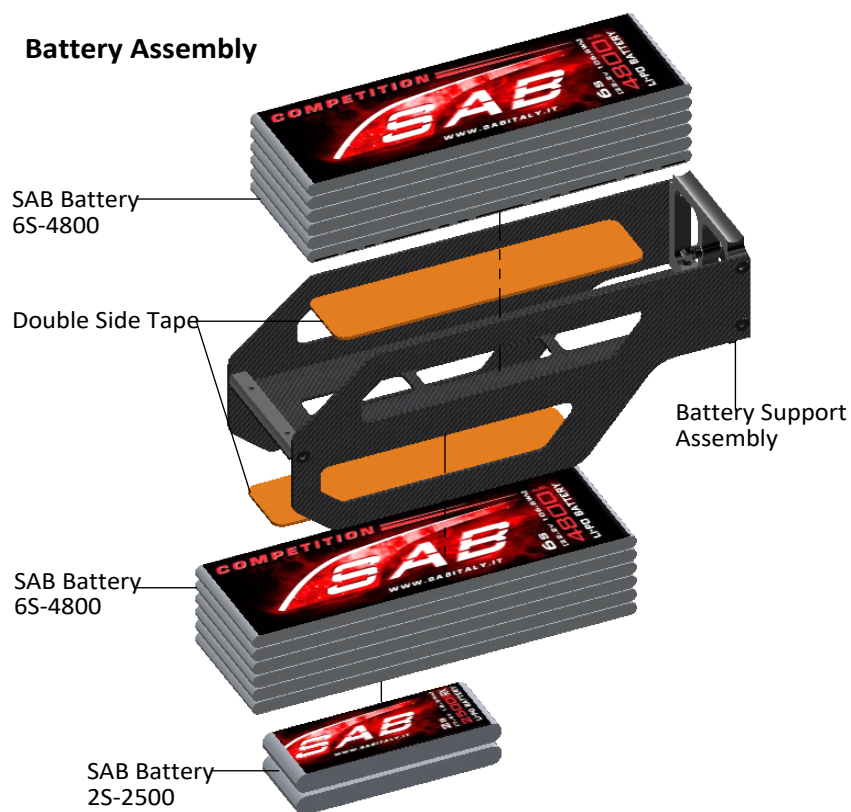


## Battery Side Support Assembly

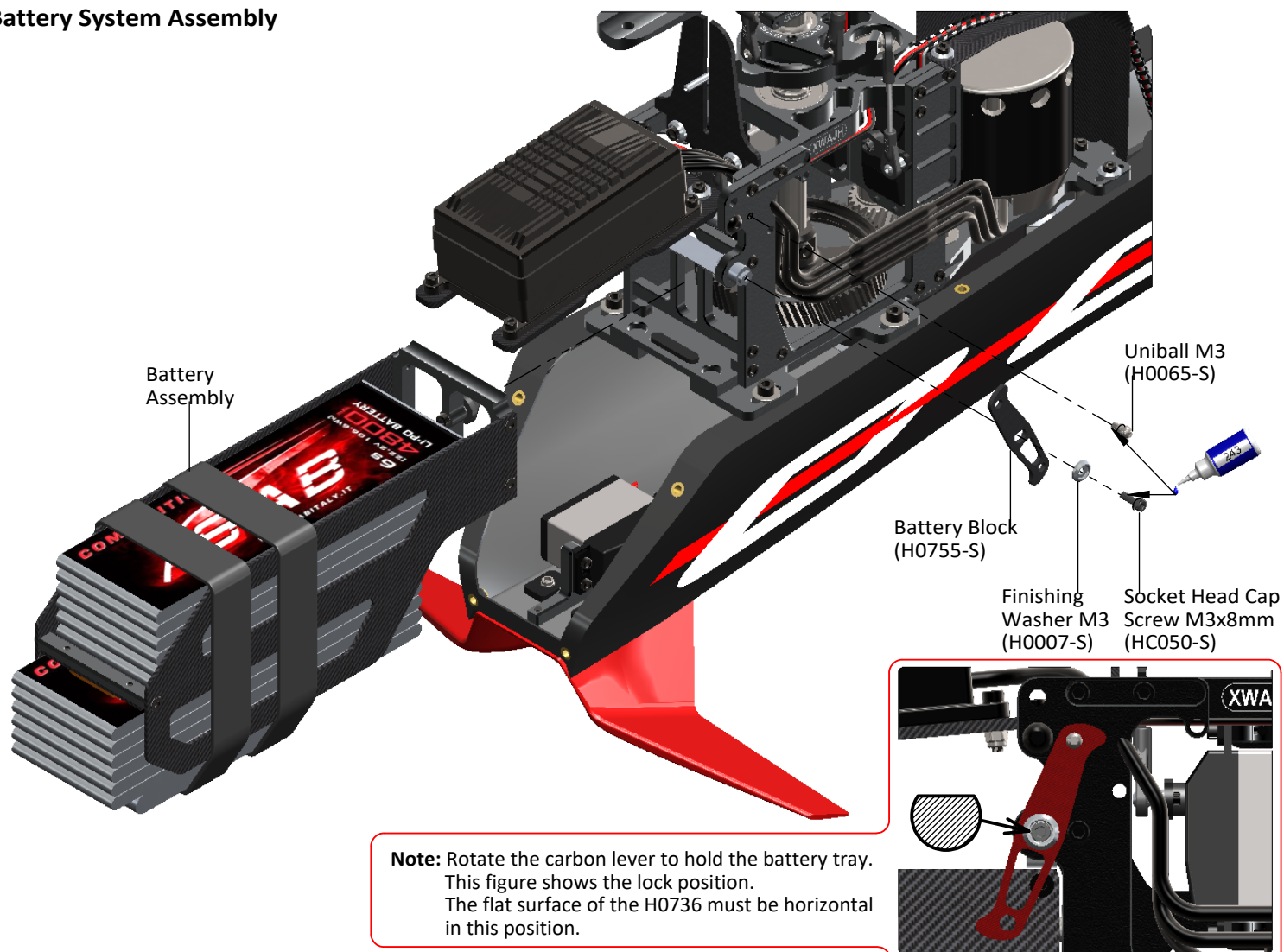




## Battery Assembly



## Battery System Assembly



**OPERATIONS BEFORE FLIGHT**

- \*Check the CENTER of GRAVITY. For high-speed flight, the model should never be nose-up.
- \*Set up the remote control and the flybarless system with utmost care.
- \*It is advisable to test the correct settings of the remote and flybarless system without main blades or tail blades fitted.
- \*Check that all wiring is isolated from the carbon/aluminum parts. It is good practice to protect them at the points where they are at most risk.
- \*It is recommended to use wiring and connectors appropriate for the currents generated from your setup.

 **\*Be sure of the gear ratio, verifying carefully the motor pulley in use. The forces acting on the mechanics increase enormously with increasing of rpm.**

- \*Fit the main blades and tail blades. (Fig.1 and Fig.2)

Fig. 1

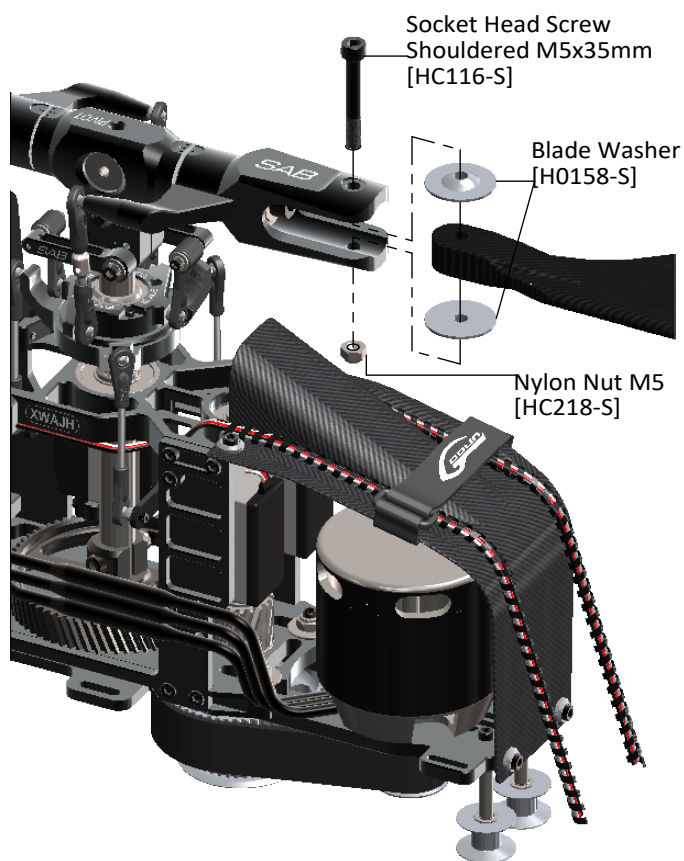
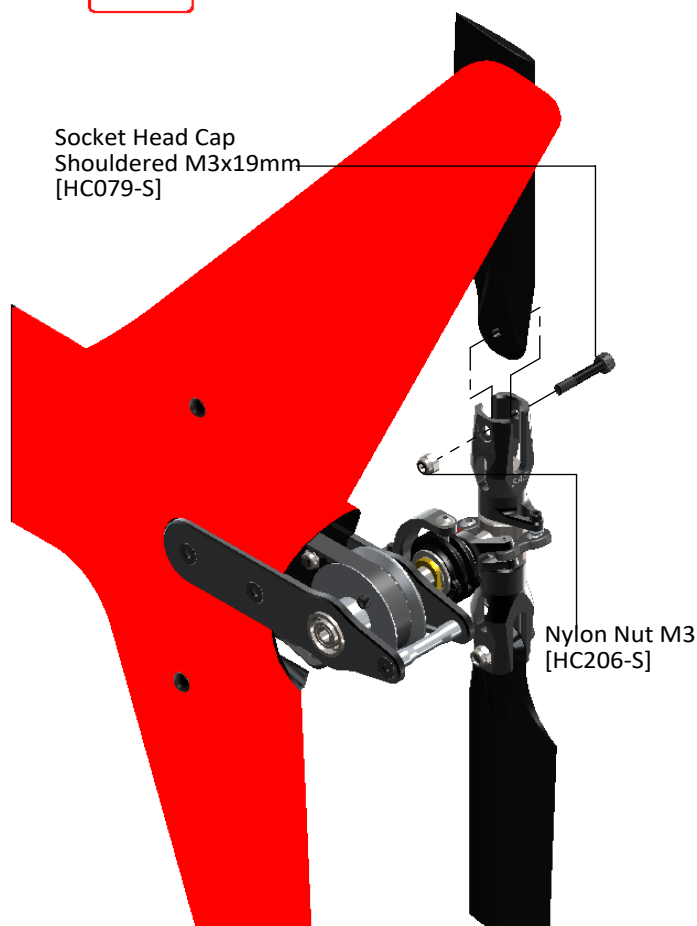


Fig. 2



- \*Please make sure the main blades are tight on the blade grips,
- \*Check the collective and cyclic pitch. We recommend 16° of collective pitch for speed flying. Exceeding 16°-17° will simply cause loss of efficiency, which will in turn “rob” power without increasing forward speed.
- \*We recommend cyclic servos with at least 20 kg of torque.
- \*It is important to check the correct tracking of the main blades.

 **\*Perform the first flight at a low head speed, 1800 RPM. After this first flight, do a general check of the helicopter. Verify that all screws are correctly tightened.**





### "SPEED" Flying

A high-speed helicopter requires a good balance between power, aerodynamic efficiency, blade efficiency and stabilization system (flybarless unit). The SAB Speed blades are designed specifically for this purpose; they combine the easy of flight while maintaining stability at high speeds.

- \* It is recommended to have at least 2 flight conditions (idle up modes), one for take off and landing and another for flight condition at much higher RPM for speed flight.
  - The high RPM flight condition should only be used while away from the pilot (at least 30 meters).
  - Speed passes should always be made longitudinally to the pilot and spectators (left to right or right to left) and always at a safe distance.
- \* The main and tail blades included with the Goblin COMET are not suitable for 3D flight, they are optimized for sport and speed flying ONLY. If you would like to perform 3D maneuvers with your Goblin COMET, we recommend using other blades designed for this application.
- \* We recommend a rotor speed of approximately 2400 to 2600 RPM max. Using higher rotor speeds can potentially exceed 0.7 to 0.8 mach speed for the blade tips, which will decrease efficiency.
- \* **During the " Speed flight " ( Very important during the setup flight ) we recommend the use of elastic to hold the canopy in position. Performing a hard upward pitch may cause the fuselage to deform making it high risk that the canopy will move from it's original position. ( see page 20 )**

### MAINTENANCE

\*On the COMET, areas to look for wear include:

- Motor belt
- Tail belt
- Damper
- Main gear and pinion

The lifespan of these components varies according to the type of flying. On the average, it is recommended to replace the above mentioned parts every **100** flights.

\*The rotor head tends to lose rigidity after a while. Check this condition every **20** flights. Preloading with precision shim washers, it is possible to vary the rigidity of the head.

\*Check all uniballs often.

\*The most stressed bearings are definitely those of the tail shaft. Check them frequently.

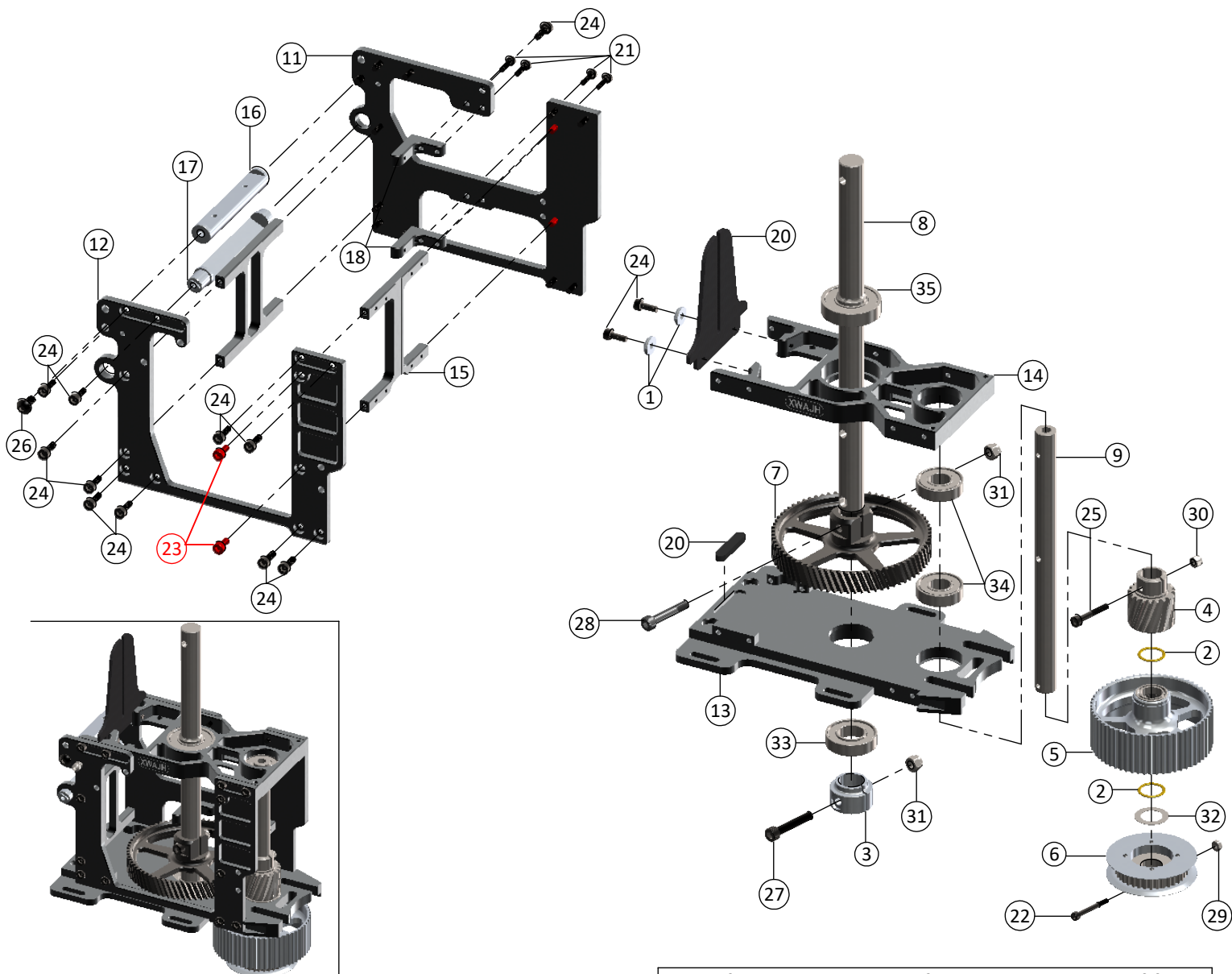
\*Periodically lubricate the tail slider and its linkages, as well as the swashplate and its linkages.

\*Lubricate the main gear.

\*To ensure safety you should do a general inspection of the helicopter after each flight. You should check:

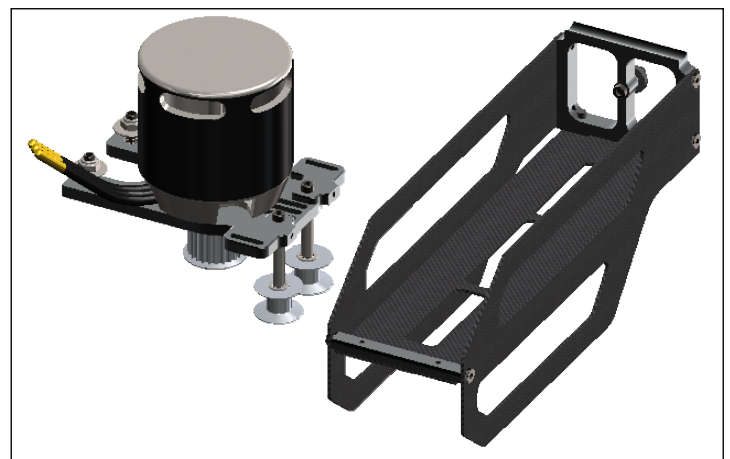
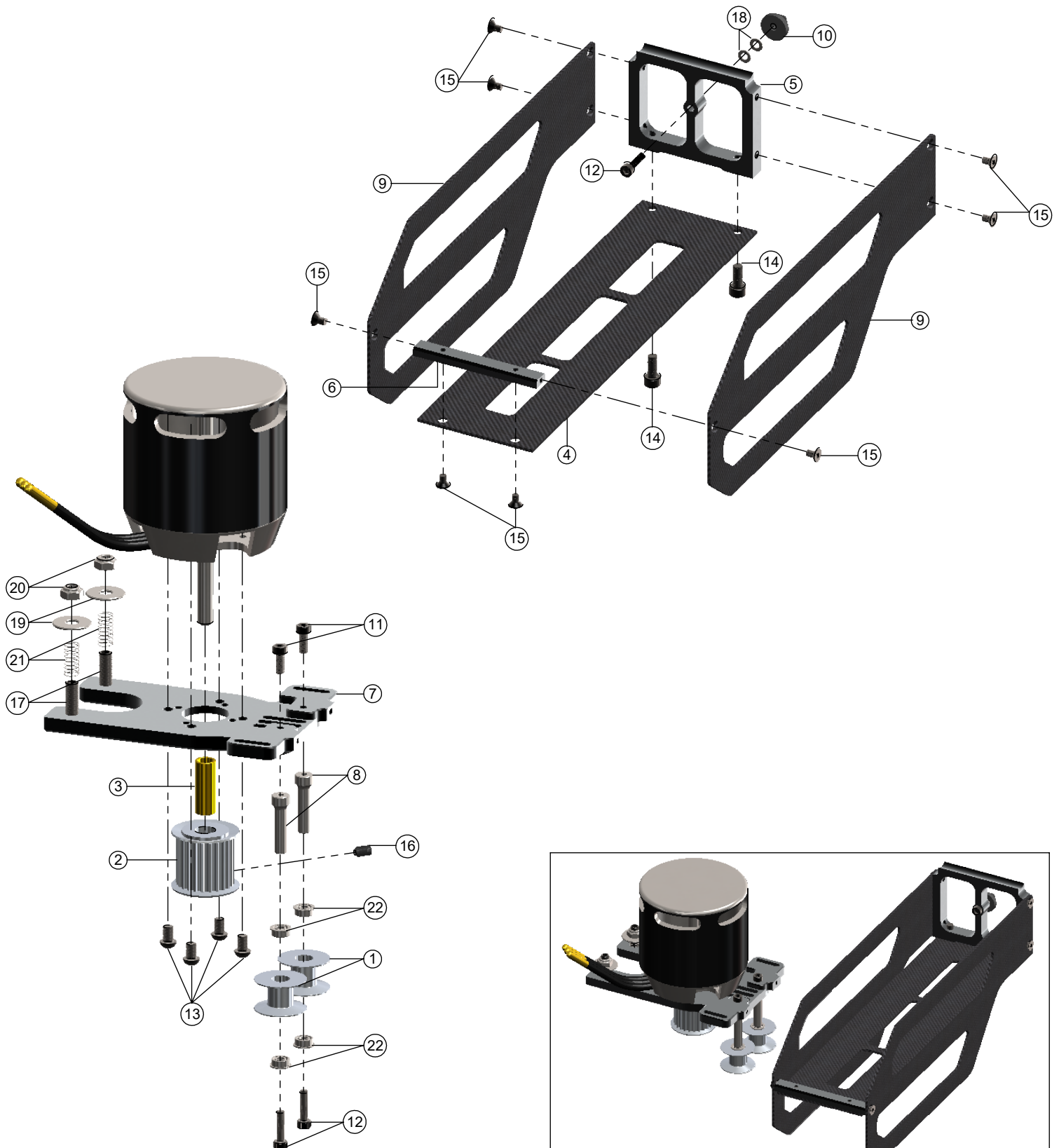
- Proper tail and motor belt tension.
- The proper isolation of wires from the carbon and aluminum parts.
- That all screws remain tight.

If you fly Speed with the Comet, over 2500 RPM, you should check your model very accurately. The machine has a lot of stress and you should take care of all details very carefully.



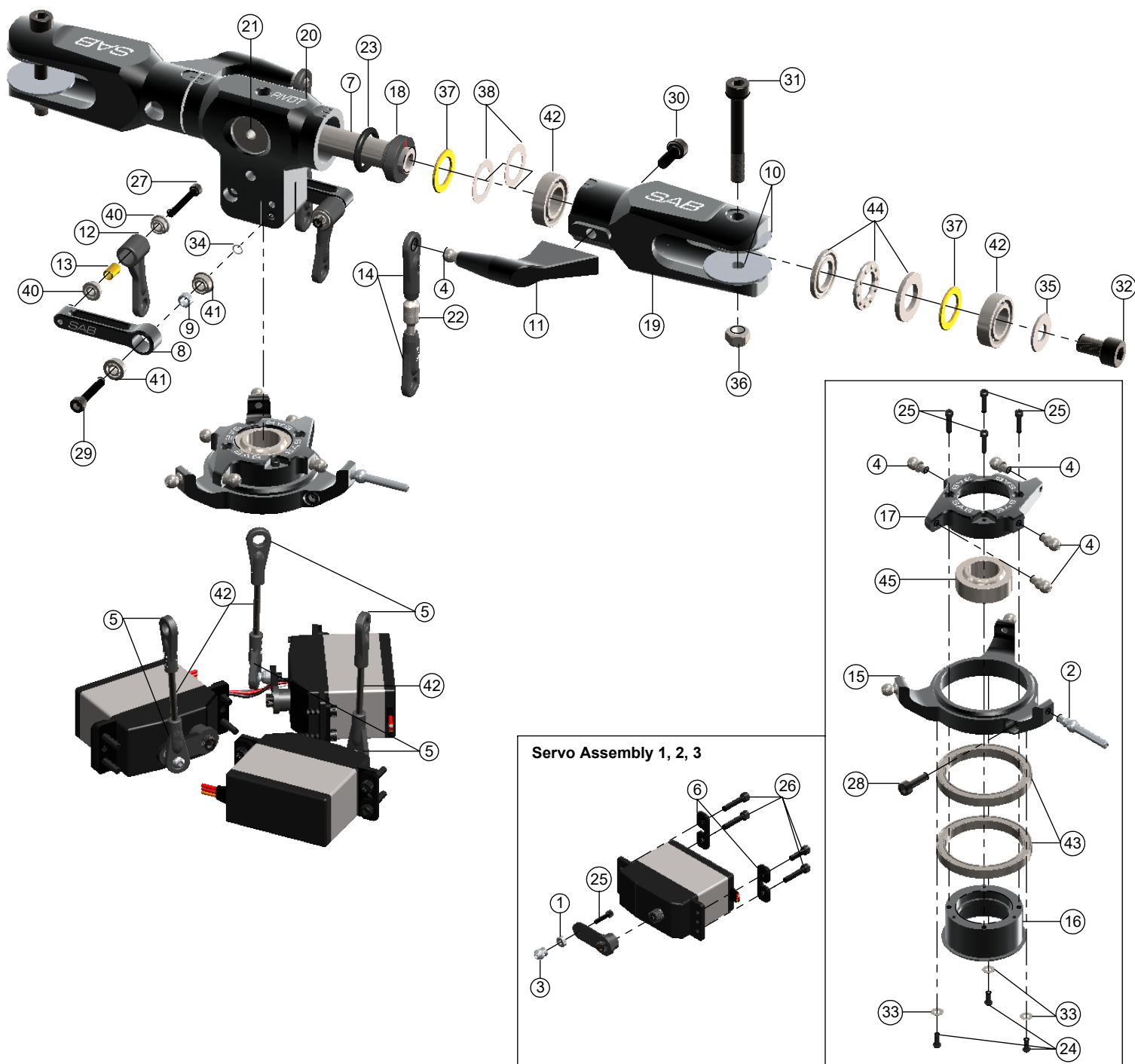
Aluminum Frame and Transmission Assembly				
POS	COD	Name	Specification	Quantity
1	H0007	Finishing Washer M3	Aluminum	2
2	H0891	Bushing One Way	Brass	2
3	H0121	M4 Locking Collar	Aluminum	1
4	H0156	19T Drive Pinion	Steel	1
5	H0171	One Way Pulley	Aluminum	1
6	H0172	Front Tail Pulley	Aluminum	1
7	H0320	Main Gear	Steel	1
8	H0601	Main Shaft	Steel	1
9	H0602	Secondary Shaft	Steel	1
10	H0603	Servo Support SR	Aluminum	1
11	H0604	Side Case SR	Aluminum	1
12	H0605	Side Case SL	Aluminum	1
13	H0606	Main Support SR	Aluminum	1
14	H0607	Top Plate SR	Aluminum	1
15	H0609	Frame Spacer	Aluminum	1
16	H0610	ESC Support	Aluminum	1
17	H0736	Battery Stop	Aluminum	1

Aluminum Frame and Transmission Assembly				
POS	COD	Name	Specification	Quantity
18	H0748	Single Servo Support	Aluminum	2
19	H0756	Anti-Rotation Guide	Carbon Fiber	1
20	H0876	Rubber Preload	Rubber	1
21	HC020	Socket Head Cap Screw	M2.5x8mm	4
22	HC033	Head Cap Shouldered	M2.5x19mm	1
23	HC044	Socket Head Cap Screw	M3x8mm	4
24	HC050	Socket Head Cap Screw	M3x8mm	23
25	HC079	Head Cap Shouldered	M3x19mm	1
26	HC098	Button Head Cap Screw	M4x8mm	2
27	HC104	Socket Head Cap Screw	M4x22mm	1
28	HC111	Head Cap Shouldered	M4x24mm	1
29	HC200	Metrix Hex Nylon Nut	M2.5	1
30	HC206	Metrix Hex Nylon Nut	M3	1
31	HC212	Metrix Hex Nylon Nut	M4	2
32	HC232	Shim $\phi 10 \times \phi 16 \times 0.2 \text{mm}$	Steel	1
33	HC426	Bearing $\phi 12 \times \phi 24 \times 6 \text{mm}$		1
34	HC479	Bearing $\phi 10 \times \phi 22 \times 6 \text{mm}$		2
35	HC480	Bearing $\phi 10 \times \phi 28 \times 7 \text{mm}$		1



MOTOR MOUNT SYSTEM and BATTERY SYSTEM				
POS	COD	Name	Specification	Quantity
1	H0069	Tail Belt Idle	Aluminum	2
2	H0175-21	Motor Pulley	Aluminum	1
3	H0176	Motor Bushing	Brass	1
4	H0760	Battery Plate	Carbon Fiber	1
5	H0733	Batter Support	Aluminum	1
6	H0734	Frame Battery Support	Aluminum	1
7	H0735	Motor Mount	Aluminum	1
8	H0740	Column Tensioner	Steel	2
9	H0753	Battery Side Support	Carbon Fiber	2
10	H0875	Center Support	Derlin	1
11	HC050	Socket Head Cap Screw	M3x8mm	2
12	HC062	Socket Head Cap Screw	M3x12mm	3

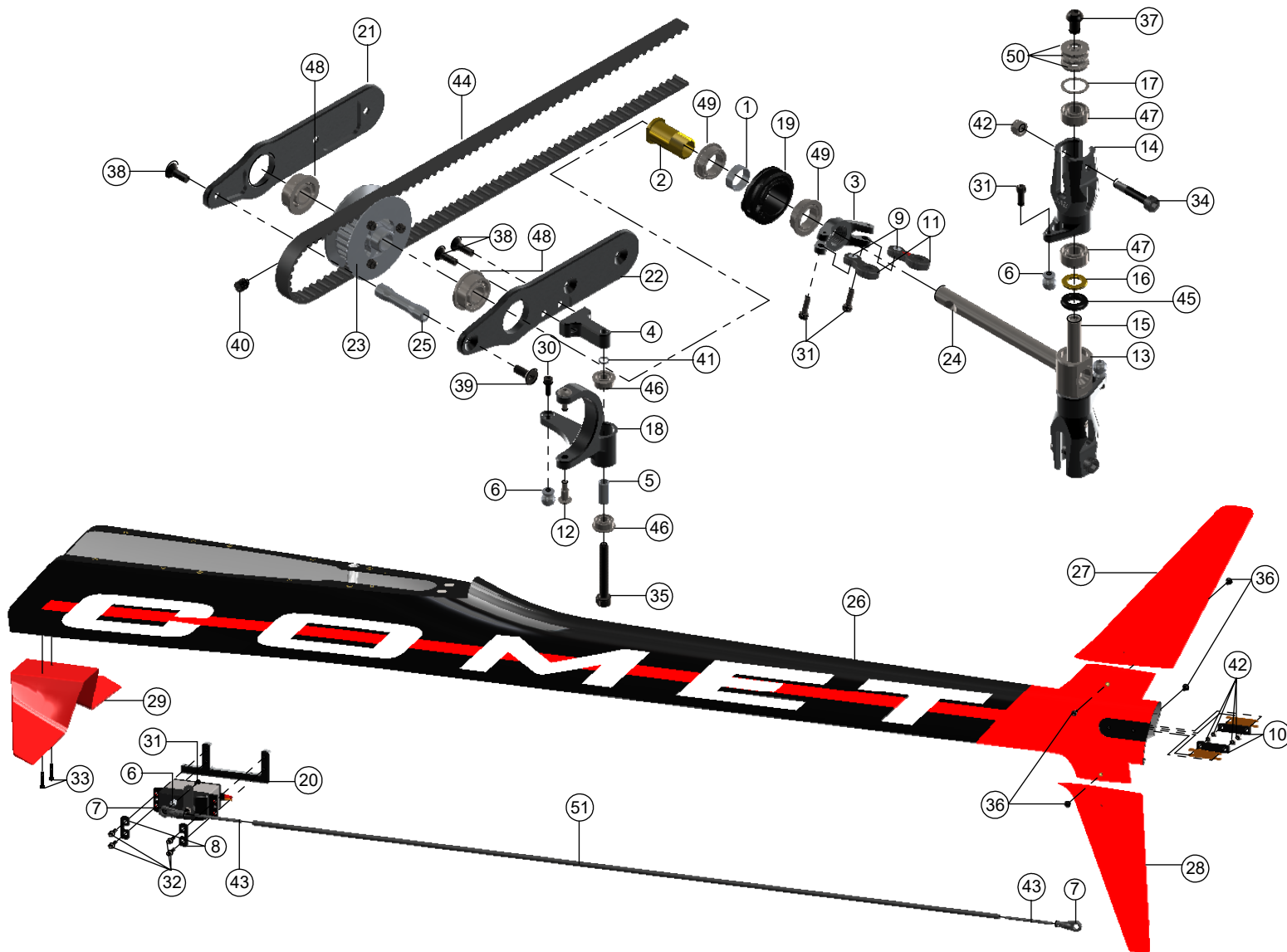
MOTOR MOUNT SYSTEM and BATTERY SYSTEM				
POS	COD	Name	Specification	Quantity
13	HC096	Button Head Cap Screw	M4x6mm	4
14	HC102	Socket Head Cap Screw	M4x10	2
15	HC132	Flat Head Cap Screw	M3x5mm	7
16	HC153	Set Screw	M4x6mm	1
17	HC158	Set Screw	M5x20mm	2
18	HC180	Washer	Ø5.3xØ15x1mm	2
19	HC188	Washer	Ø5.3xØ15x1mm	2
20	HC218	Metrix Hex Nylon Nut	M5	2
21	HC310	Spring	de 5.8 / df 0.3	2
22	HC402	Flanged Bearing	Ø3xØ7x3mm.	4



Head System				
Pos	Code	Name	Specification	Quantity
1	H0031	Uniball Spacers	Aluminum	3
2	H0063	Uniballs	M3x4 Ø 5 H18	1
3	H0064	Uniballs	M2.5 Ø 5 H6	3
4	H0065	Uniball M3	Steel	8
5	H0066	Plastic Ball Linkages	Plastic	6
6	H0075	Servo Spacers	Carbon Fiber	6
7	H0079	Spindle	Steel	1
8	H0132BM	Radius Arm	Aluminum Black Matte	2
9	H0134	Spacer Arm	Aluminum Black Matte	2
10	H0158	Blade Washers	Aluminum	4
11	H0183BM	Blade Grip Arm	Aluminum Black Matte	2
12	H0205	Uniball Radius Arm	Plastic	2
13	H0253	Spacer Arm	Aluminum Black Matte	2
14	H0402	Uniball M3	Plastic	4
15	H0420-01BM	Swashplate 01	Aluminum Black Matte	1
16	H0420-04BM	Swashplate 04	Aluminum Black Matte	1
17	H0422-02BM	Swashplate 02	Aluminum Black Matte	1
18	H0426-B	Damper Delrin	Pom black	2
19	H0719BM	Main Blade Grip	Aluminum Black Matte	2
20	H0720BM	Center Hub	Aluminum Black Matte	1
21	H0721	Pivot Head	Steel	1
22	H0722	Main Linkages	Steel	2






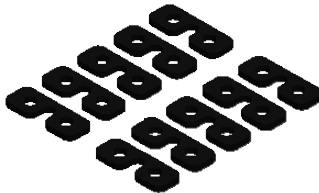
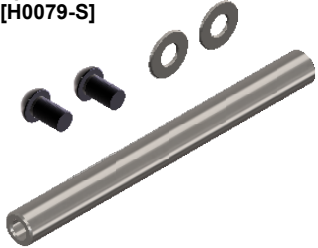

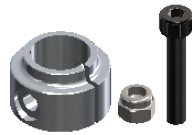
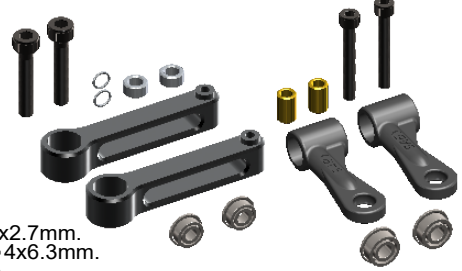

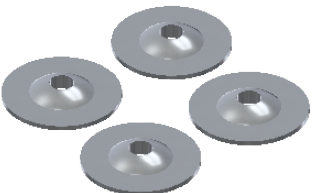
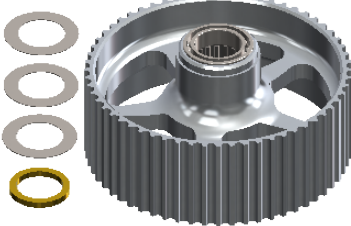
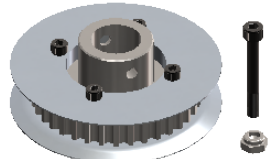
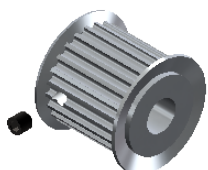
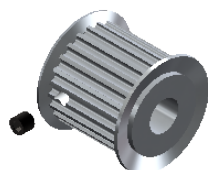
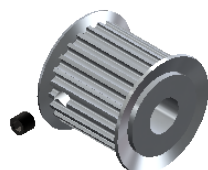
Head System				
Pos	Code	Name	Specification	Quantity
23	HA024	Oring		2
24	HC005	Button Cap Screws	M2x5mm	3
25	HC008	Head Cap Screws	M2 x 8mm	7
26	HC020	Head Cap Screws	M2.5x10mm	12
27	HC032	Head Cap Screws	M2.5x18mm	2
28	HC056	Head Cap Screws	M3x10mm	1
29	HC068	Head Cap Screws	M3x16mm	2
30	HC102	Head Cap Screws	M4x10mm	2
31	HC116	Head Cap Shoulder	M5x35mm	2
32	HC124	Head Cap Screws	M6x10mm	2
33	HC170	Washers	Ø 2 x Ø 5 x 0.5mm	3
34	HC176	Washers	Ø 3x Ø 4x0.5	2
35	HC194	Washers	Ø 6x Ø 14x1	2
36	HC218	Nylon Nut	M5	2
37	HC230	Washers	Ø 10x Ø 16x1mm	4
38	HC232	Washers	Ø 10x Ø 16x0.2mm	2
39	HC242	Threaded Rods	M2.5x40mm	3
40	HC400	Flanged Bearing	Ø 2.5x Ø 6x2.5mm	4
41	HC402	Flanged Bearing	Ø 3x Ø 7x3mm	4
42	HC422	Bearing	Ø 10x Ø 19x5mm	4
43	HC430	Bearing Rads	Ø 30 x Ø 37 x 4mm	2
44	HC438	Thrust Bearing	Ø 10x Ø 18x5.5mm	2
45	HC447	Spherical Bearing	Ø 12x Ø 22x7mm	1





TAIL SYSTEM				
POS	COD	Name	Specification	Quantity
1	H0029	Spacer	Ø 8.1 x Ø 9.2 x 3.2mm	1
2	H0054	Tail Pitch Slider 02	Aluminum	1
3	H0055BM	Tail Pitch Slider Link	Aluminum Black Matte	1
4	H0058BM	Bell Crank Base	Aluminum Black Matte	1
5	H0060	Spacer	Ø 3 x Ø 4 x 9.6mm	1
6	H0064	Uniballs	M2.5 Ø 5h6	4
7	H0066	Plastic Ball Links	Plastic	2
8	H0075	Servo Spacer	Carbon Fiber	2
9	H0076	Spacer	Ø 2x Ø 2x3mm	3
10	H0249	Tail Locking Element	Carbon Fiber	2
11	H0261	Tail Pitch Slider Link		2
12	H0264	Pin M3	Steel	2
13	H0326	Tail Hub	Steel	1
14	H0327BM	Tail Blade Grip	Aluminum Black Matte	2
15	H0329	Tail Spindle	Steel	1
16	H0330	Spacer	Ø 5x Ø 9x0.75mm	2
17	H0349	Spacer	Ø 7.5x Ø 10x0.5mm	2
18	H0406BM	Tail Bell Crank	Aluminum Black Matte	1
19	H0407	Tail Pitch Slider 02	Plastic	1
20	H0751	Tail Servo Support	Aluminum Black Matte	1
21	H0752L	Tail Side Plate Left	Aluminum Black Matte	1
22	H0752R	Tail Side Plate Right	Aluminum Black Matte	1
23	H0859	Tail Pulley	27T	1
24	H0860	Tail Shaft	Steel	1
25	H0861	Tail Case Spacer	Aluminum	1
26	H0878	Black / Red Boom Comet	Carbon Fiber	1
	H0880	Yellow / Red Boom Comet		

TAIL SYSTEM				
POS	COD	Name	Specification	Quantity
27	H0881	Comet Top Tail Fin	Carbon Fiber	1
28	H0882	Comet Botton Tail Fin	Carbon Fiber	1
29	H0883	Standard Landing Gear	Carbon Fiber	1
30	HC002	Socket Head Cap Screws	M2 x 5mm	1
31	HC004	Socket Head Cap Screws	M2 x 6mm	5
32	HC022	Socket Head Cap Screws	M2.5 x 8mm	4
33	HC064	Socket Head Cap Screws	M3 x 14mm	2
34	HC079	Socket Head Cap Screws Shoulder	M3 x 18mm	2
35	HC086	Socket Head Cap Screws	M3 x 22mm	1
36	HC094	Button Head Cap Screws	M3 x 6mm	4
37	HC096	Button Head Cap Screws	M4 x 6mm	2
38	HC128	Flat Head Cap Screws	M2.5x8mm	2
39	HC134	Flat Head Cap Screws	M3x8mm	2
40	HC152	Set Screws	M4 x 4mm	1
41	HC176	Washer	Ø3x Ø4x0.5mm	1
42	HC206	Metrix Hex Nylon Nut	M3	6
43	HC242	Set Screws	M2.5 x 40mm	2
44	HC304	Belt Gates 2061-3GT-06		1
45	HC335	Tail Oring		2
46	HC402	Flanged Bearings	Ø3 x Ø7 x 3mm	2
47	HC411	Bearings	Ø5x Ø10x4mm	4
48	HC414	Flanged Bearings	Ø6 x Ø13 x 5mm	2
49	HC418	Flanged Bearings	Ø8 x Ø12 x 3.5mm	2
50	HC435	Thrust Bearings	Ø5x Ø10x4mm	2
51	HC481	Carbon Rod Ø2.5 x Ø4 x 1015mm		1

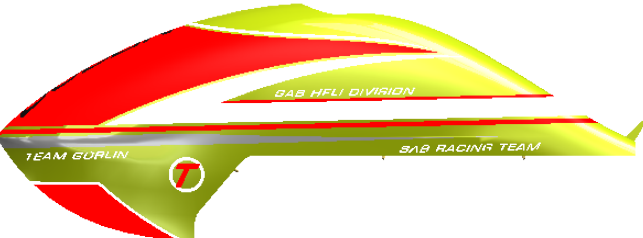
<b>Finishing Washer M3</b> [H0007-S]    - 10 x Finishing Washer M3.	<b>Bell Crank Base</b> [H0058-S]    - 1 x Bell Crank Base.	<b>Uniball M3</b> [H0063-S]    - 2 x Uniball M3.	<b>Uniball M2.5</b> [H0064-S]    - 5 x Uniballs M2 5H6. - 5 x Uniball Spacers. - 5 x Socket Cap Screws M2x8mm. - 5 x Socket Cap Screws M2x6mm.
<b>Uniball M3x4 5H3</b> [H0065-S]    - 5 x Uniballs M3x4 5H3.5.	<b>Plastic Ball Link</b> [H0066-S]    - 10 x Plastic Ball Link.	<b>Servo Spacer</b> [H0075-S]    - 10 x Servo Spacers.	<b>Spindle</b> [H0079-S]    - 1 x Spindle Shaft. - 2 x Button Cap Screw M6x10mm. - 2 x Washer 6x14x1.5mm
<b>Bush One Way</b> [H0110-S]    - 4 x Bush One Ways.	<b>M4 Locking Collar</b> [H0121-S]    - 1 x M4 Locking Collar. - 1 x Socket Head Cap Screw M4x22mm. - 1 x Metric Hex Nylon Nut M4 H5.	<b>Radius Arm</b> [H0132BM-S]    - 2 x Radius Arms. - 2 x Spacer Arm 3x5x2.7mm. - 2 x Spacer Arm 2.5x4x6.3mm. - 2 x Uniball Radius Arms. - 2 x Head Cap Screws M3x16mm. - 2 x Head Cap Screws M2.5x18mm. - 2 x Washers 3x4x0.5mm. - 2 x Flanged Bearings 2.5x6x2.5mm. - 2 x Flanged Bearings 3x7x3mm.	
<b>19T Drive Pinion</b> [H0156-S]    - 1 x 19T Drive Pinion. - 1 x Socket Head Cap Screw Shouldered M3x19mm. - 1 x Metric Hex Nylon Nut M3.	<b>Aluminum Blade Spacer</b> [H0158-S]    - 4 x Aluminum Blade Spacer.	<b>Double Bearing One Way Pulley</b> [H0171-S]    - 1 x Aluminum Double Bearing One Way Pulley Assembly. - 3 x Shims 10x16x0.2mm. - 1 x One Way Brass Bushing.	<b>Aluminum Front Tail Pulley</b> [H0172-S]    - 1 x Front Tail Pulley Assembly. - 1 x Socket Head Cap Screw M2.5x19mm. - 1 x Metric Hex Nylon Nuts M2.5.
<b>18T Pulley</b> [H0175-18-S]    - 1 x 18T Pulley. - 1 x Set Screw M4x4mm.	<b>19T Pulley</b> [H0175-19-S]    - 1 x 19T Pulley. - 1 x Set Screw M4x4mm.	<b>20T Pulley</b> [H0175-20-S]    - 1 x 20T Pulley. - 1 x Set Screw M4x4mm.	<b>21T Pulley</b> [H0175-21-S]    - 1 x 21T Pulley. - 1 x Set Screw M4x4mm.



































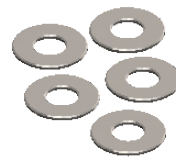

<b>22T Pulley [H0175-22-S]</b>  <ul style="list-style-type: none"> <li>- 1 x 22T Pulley.</li> <li>- 1 x Set Screw M4x4mm.</li> </ul>	<b>23T Pulley [H0175-23-S]</b>  <ul style="list-style-type: none"> <li>- 1 x 23T Pulley.</li> <li>- 1 x Set Screw M4x4mm.</li> </ul>	<b>24T Pulley [H0175-24-S]</b>  <ul style="list-style-type: none"> <li>- 1 x 24T Pulley.</li> <li>- 1 x Set Screw M4x4mm.</li> </ul>	<b>25T Pulley [H0175-25-S]</b>  <ul style="list-style-type: none"> <li>- 1 x 25T Pulley.</li> <li>- 1 x Set Screw M4x4mm.</li> </ul>
<b>Blade Grip Arm [H0183BM-S]</b>  <ul style="list-style-type: none"> <li>- 2 x Blade Grip Arm.</li> <li>- 2 x Socket Head Cap Screw M4x10mm.</li> <li>- 2 x Uniball M3x4 Ø5 H3.5.</li> </ul>	<b>Uniball Radius Arm [H0205-S]</b>  <ul style="list-style-type: none"> <li>- 2 x Uniball Radius Arm.</li> </ul>	<b>Tail Locking Element [H0249-S]</b>  <ul style="list-style-type: none"> <li>- 2 x Locking Element Tail .</li> <li>- 2 x Double Side Tape.</li> <li>- 4 x Socket Head Cap Screw M3x10mm.</li> <li>- 4 x Metric Hex Nylon Nut M3.</li> </ul>	<b>Plastic Tail Linkage [H0261-S]</b>  <ul style="list-style-type: none"> <li>- 2 x Plastic Tail Linkage.</li> <li>- 2 x Grip Link Bushing.</li> <li>- 2 x Head Cap Screws M2x6mm.</li> </ul>
<b>Steel Main Gear [H0320-S]</b>  <ul style="list-style-type: none"> <li>- 1 x 68T Main Gear .</li> <li>- 1 x Socket Head Cap Screw M4x24mm.</li> <li>- 1 x Metric Hex Nylon Nut M4 H5.</li> <li>- 1 x 19T Drive Pinion.</li> <li>- 1 x Socket Head Cap Screw Shouldered M3x22mm.</li> <li>- 1 x Metric Hex Nylon Nut M3H4.</li> </ul>		<b>Aluminum Tail Blade Grip [H0327BM-S]</b>  <ul style="list-style-type: none"> <li>- 2 x Aluminum Tail Blade Grip.</li> <li>- 4 x Bearing Ø5xØ10x4mm.</li> <li>- 2 x Thrust bearing Ø5xØ10x4mm.</li> <li>- 2 x Button Head Cap M4x8mm.</li> <li>- 2 x Socket Head Cap M2x6mm.</li> <li>- 2 x Washer Ø5xØ8.9x0.75mm.</li> <li>- 2 x Washer Ø7.5xØ10x0.5mm.</li> </ul>	
<b>Tail Spindle [H0329-S]</b>  <ul style="list-style-type: none"> <li>- 1 x Tail Spindle.</li> <li>- 2 x Button Head Cap Screws M4x6mm.</li> </ul>	<b>Spacer Set for Tail Rotor [H0330-S]</b>  <ul style="list-style-type: none"> <li>- 2 x Washer Ø5xØ8.9x0.75mm.</li> <li>- 2 x Washer Ø7.5xØ10x0.5mm.</li> <li>- 2 x Tail Oring Dampener.</li> </ul>	<b>Plastic Ball Link [H0402-S]</b>  <ul style="list-style-type: none"> <li>- 5 x Plastic Ball Link.</li> </ul>	<b>Bell Crank Lever [H0406BM-S]</b>  <ul style="list-style-type: none"> <li>- 1 x Bell Crank Lever.</li> <li>- 2 x Tail Pin.</li> <li>- 1 x Uniball M2.</li> <li>- 1 x Uniball Spacer.</li> <li>- 2 x Flanged Bearing Ø3 x Ø 7x3mm.</li> <li>- 1 x Head Cap Screws M3x22mm.</li> <li>- 1 x Head Cap Screws M2x8mm.</li> <li>- 1 x Head Cap Screws M2x5mm.</li> <li>- 1 x Washer Ø3 x Ø4 x 0.5mm.</li> <li>- 1 x Spacer Ø3 x Ø4 x 9.6mm.</li> </ul>
<b>Tail Pitch Slider Set Black Matte [H0407BM-S]</b>  <ul style="list-style-type: none"> <li>- 1 x Tail Pitch Slider Assembled.</li> </ul>	<b>SwashPlate Set Black Matte [H0407BM-S]</b>  <ul style="list-style-type: none"> <li>- 1 x Swashplate Upper Cup.</li> <li>- 1 x Swashplate Bottom Cup.</li> <li>- 1 x Swashplate Base Cup.</li> <li>- 1 x Spherical Bearing Ø12xØ22x7.</li> <li>- 4 x Socket Head Screw M2x8mm.</li> <li>- 1 x Socket Head Screw M3x10mm.</li> <li>- 2 x Bearings Ø30xØ37x4mm.</li> <li>- 6 x Uniballs M3x4Ø5 H3.</li> <li>- 1 x Uniball M3x4Ø5 H18.</li> <li>- 3 x Socket Head Screws M2x5mm.</li> <li>- 3 x Washer Ø2.2xØ5x0.3mm</li> </ul>		<b>Damper Delrin [H0426-S]</b>  <ul style="list-style-type: none"> <li>- 3 x CNC Delrin Dampener Type A.</li> <li>- 3 x CNC Delrin Dampener Type B.</li> <li>- 3 x CNC Delrin Dampener Type C.</li> <li>- 3 x Steel Shims Ø10 x Ø16 x 1.</li> <li>- 3 x Steel Shims Ø10 x Ø16 x 0.2.</li> <li>- 3 x O-ring 3050.</li> </ul>



<p><b>Main Shaft</b> [H0601-S]</p>  <ul style="list-style-type: none"><li>- 1 x Main Shaft.</li><li>- 1 x Socket Head Cap Screw Shouldered M4x24mm.</li><li>- 1 x Socket Head Cap Screws M4x22mm.</li><li>- 2 x Metric Hex Nylon Nuts M4.</li></ul>	<p><b>Secondary Shaft</b> [H0602-S]</p>  <ul style="list-style-type: none"><li>- 1 x Secondary Shaft M3.</li><li>- 1 x Socket Head Cap Screw Shoulder M2.5x19mm.</li><li>- 1 x Metric Hex Nylon Nut M2,5.</li><li>- 1 x Socket Head Cap Shoulder M3x22mm.</li><li>- 1 x Metric Hex locknut Nut M3.</li></ul>	<p><b>Servo Support SR</b> [H0603BM-S]</p>  <ul style="list-style-type: none"><li>- 1 x Servo Support SR.</li><li>- 1 x Frame Spacer.</li></ul>	<p><b>Side Case SR</b> [H0604BM-S]</p>  <ul style="list-style-type: none"><li>- 1 x Side Case SR.</li></ul>
<p><b>Side Case SL</b> [H0605BM-S]</p>  <ul style="list-style-type: none"><li>- 1 x Side Case SL.</li></ul>	<p><b>Main Support SR</b> [H0606BM-S]</p>  <ul style="list-style-type: none"><li>- 1 x Main Support SR.</li></ul>	<p><b>Top Plate SR</b> [H0607BM-S]</p>  <ul style="list-style-type: none"><li>- 1 x Top Plate SR.</li></ul>	<p><b>ESC Support</b> [H0610-S]</p>  <ul style="list-style-type: none"><li>- 1 x ESC Support.</li><li>- 1 x ESC Plate.</li><li>- 2 x Socket Head Cap Screw M3x10mm.</li><li>- 2 x Finishing Washer M3.</li></ul>
<p><b>Blade Grips</b> [H0719BM-S]</p>  <ul style="list-style-type: none"><li>- 2 x Blade Grip.</li><li>- 2 x Thrust Bearing <math>\phi 10x\phi 18x5.5</math>mm.</li><li>- 4 x Bearing <math>\phi 10x\phi 19x5</math>mm.</li><li>- 2 x Washer <math>\phi 10x\phi 16x1</math>mm.</li><li>- 2 x Socket Head Cap Screws M4x10mm.</li></ul>	<p><b>Center Hub</b> [H0720BM-S]</p>  <ul style="list-style-type: none"><li>- 1 x Center Hub.</li><li>- 1 x Pivot Head.</li><li>- 2 x Socket Head Cap Screw M3x12mm.</li><li>- 1 x Socket Head Cap Screw Shouldered M4x24mm.</li><li>- 1 x Metric Hex Nylon Nut M4.</li></ul>	<p><b>Linkage Rod M3x40mm</b> [H0722-S]</p>  <ul style="list-style-type: none"><li>- 2 x Linkage Rod M3x40mm.</li><li>- 4 x Uniballs M3.</li></ul>	
<p><b>Battery Support</b> [H0733-S]</p>  <ul style="list-style-type: none"><li>- 1 x Battery Support.</li><li>- 1 x Center Support.</li><li>- 1 x Frame Battery Support.</li><li>- 1 x Battery Plate.</li><li>- 2 x Battery Side.</li><li>- 2 x Double tape side.</li><li>- 2 x Battery Velcro Strap.</li><li>- 1 x Socket Head Cap Screws M3x12mm.</li><li>- 2 x Socket Head Cap Screws M4x10mm.</li><li>- 8 x Flat Head Cap Screws M3x5mm.</li><li>- 2 x Washer <math>\phi 3.2x\phi 6x0.5</math>mm.</li></ul>	<p><b>Motor Mount</b> [H0735-S]</p>  <ul style="list-style-type: none"><li>- 1 x Motor Mount.</li><li>- 2 x Springs de 5.8/ df0.5 / LL9.</li><li>- 2 x Washer <math>\phi 5.3x\phi 15x1</math>mm.</li><li>- 2 x Metric Hex Nylon Nut M5.</li><li>- 2 x Set Screw M5x20mm.</li></ul>	<p><b>Battery Stop</b> [H0736-S]</p>  <ul style="list-style-type: none"><li>- 1 x Battery Stop.</li><li>- 1 x Battery Block.</li><li>- 1 x Finishing Washer M3.</li><li>- 1 x Head Cap Screw M3x8mm.</li></ul>	
<p><b>Column Tensioner</b> [H0740-S]</p>  <ul style="list-style-type: none"><li>- 2 x Column tensioner</li><li>- 2 x Tail Belt Idler.</li><li>- 4 x Flanged Bearing <math>\phi 3x\phi 7x3</math>mm.</li><li>- 2 x Head Cap Screw M3x12mm.</li><li>- 2 x Head Cap Screw M3x8mm.</li></ul>	<p><b>Tail Servo Support</b> [H0748-S]</p>  <ul style="list-style-type: none"><li>- 2 x Singel Servo Support.</li><li>- 1 x Tail Servo Support.</li></ul>	<p><b>Tail Side Plate</b> [H0752-S]</p>  <ul style="list-style-type: none"><li>- 1 x Tail Side Plate Left.</li><li>- 1 x Tail Side Plate Right.</li><li>- 1 x Tail Case Spacer.</li><li>- 2 x Flanged Bearing <math>\phi 6x\phi 13x5</math>mm.</li><li>- 4 x Flat Cap Screw M3x12mm.</li><li>- 2 x Flat Cap Screw M3x8mm.</li></ul>	<p><b>FBL and RX Support</b> [H0754-S]</p>  <ul style="list-style-type: none"><li>- 1 x FBL Support.</li><li>- 1 x RX Support.</li><li>- 2 x Column.</li><li>- 2 x Finishing Washer M3.</li><li>- 2 x Head Cap Screw Shouldered M3x30mm.</li></ul>



<p><b>Swashplate Anti-Rotation Guide</b> [H0756-S]</p>  <ul style="list-style-type: none"> <li>- 1 x Swashplate Anti-Rotation Guide</li> <li>- 2 x Finishing Washer M3.</li> <li>- 2 x Socket Head Cap Screw M3x8mm.</li> </ul>	<p><b>26T Tail Pulley</b> [H0859-26-S]</p>  <ul style="list-style-type: none"> <li>- 1 x 26T Tail Pulley.</li> <li>- 1 x Set Screw M4x6mm.</li> </ul>	<p><b>27T Tail Pulley</b> [H0859-27-S]</p>  <ul style="list-style-type: none"> <li>- 1 x 27T Tail Pulley.</li> <li>- 1 x Set Screw M4x6mm.</li> </ul>	<p><b>Tail Shaft</b> [H0860-S]</p>  <ul style="list-style-type: none"> <li>- 1 x Tail Shaft.</li> <li>- 1 x Tail Hub.</li> </ul>
<p><b>Black / Red Canopy COMET</b> [H0877-S]</p>  <ul style="list-style-type: none"> <li>- 1 x Black / Red Canopy Comet.</li> </ul>			
<p><b>Black / Red Boom COMET</b> [H0878-S]</p>  <ul style="list-style-type: none"> <li>- 1 x Black / Red Boom Comet.</li> <li>- 2 x Tail Locking Element.</li> <li>- 4 x Metric Hex Nylon Nut M3</li> <li>- 2 x Double Side Tape.</li> <li>- 4 x Flat Head Cap Screw M3x10mm.</li> </ul>			
<p><b>Yellow / Red Canopy COMET</b> [H0879-S]</p>  <ul style="list-style-type: none"> <li>- 1 x Yellow / Red Canopy Comet.</li> </ul>	<p><b>Yellow / Red Boom COMET</b> [H0880-S]</p>  <ul style="list-style-type: none"> <li>- 1 x Yellow / Red Boom Comet.</li> <li>- 2 x Tail Locking Element.</li> <li>- 4 x Metric Hex Nylon Nut M3</li> <li>- 2 x Double Side Tape.</li> <li>- 4 x Flat Head Cap Screw M3x10mm.</li> </ul>		
<p><b>Comet Top Tail Fin</b> [H0881-S]</p>  <ul style="list-style-type: none"> <li>- 1 x Red Comet Top Tail Fin.</li> <li>- 2 x Button Head Cap Screw M3x6mm.</li> </ul>	<p><b>Comet Bottom Tail Fin</b> [H0882-S]</p>  <ul style="list-style-type: none"> <li>- 1 x Red Comet Bottom Tail Fin.</li> <li>- 2 x Button Head Cap Screw M3x6mm.</li> </ul>	<p><b>Standard Landing Gear Red</b> [H0883-S]</p>  <ul style="list-style-type: none"> <li>- 1 x Standard Landing Gear Red.</li> <li>- 2 x Socket Head Cap Screw M3x14mm</li> </ul>	<p><b>Comet Motor Cover</b> [H0887-S]</p>  <ul style="list-style-type: none"> <li>- 1 x Comet Motor Cover.</li> <li>- 4 x Washer M3.</li> <li>- 4 x Head Cap Screw M3x6mm.</li> </ul>

<b>[HC002-S]</b>  <p>- 8 x Socket Head Cap Screws M2x5mm.</p>	<b>[HC004-S]</b>  <p>- 8 x Socket Head Cap Screws M2x6mm.</p>	<b>[HC008-S]</b>  <p>- 8 x Socket Head Cap Screws M2x8mm.</p>	<b>[HC018-S]</b>  <p>- 8 x Socket Head Cap Screws M2.5x6mm.</p>	<b>[HC020-S]</b>  <p>- 8 x Socket Head Cap Screws M2.5x8mm.</p>	<b>[HC022-S]</b>  <p>- 8 x Socket Head Cap Screws M2.5x8mm.</p>
<b>[HC032-S]</b>  <p>- 8 x Socket Head Cap Screw M2.5x18mm.</p>	<b>[HC033-S]</b>  <p>- 4 x Socket Head Cap shoulder M2.5x19mm. - 4 x Metrix Hex Nylon Nut M2.5.</p>	<b>[HC044-S]</b>  <p>- 8 x Socket Head Cap Screws M3x6mm.</p>	<b>[HC050-S]</b>  <p>- 8 x Socket Head Cap Screws M3x8mm.</p>	<b>[HC056-S]</b>  <p>- 8 x Socket Head Cap Screws M3x10mm.</p>	<b>[HC062-S]</b>  <p>- 8 x Socket Head Cap Screws M3x12mm.</p>
<b>[HC068-S]</b>  <p>- 8 x Socket Head Cap Screws M3x16mm.</p>	<b>[HC074-S]</b>  <p>- 2 x Socket Head Cap Shoulder M3x16mm. - 2 x Metrix Hex Nylon Nut M3.</p>	<b>[HC079-S]</b>  <p>- 2 x Socket Head Cap Shoulder M3x18mm. - 2 x Metrix Hex Nylon Nut M3.</p>	<b>[HC086-S]</b>  <p>- 8 x Socket Head Cap Screws M3x22mm.</p>	<b>[HC094-S]</b>  <p>- 8 x Bottom Head Cap Screws M3x6mm.</p>	<b>[HC096-S]</b>  <p>- 8 x Bottom Head Cap Screws M4x6mm.</p>
<b>[HC098-S]</b>  <p>- 8 x Button Head Cap Screws M4x8mm.</p>	<b>[HC102-S]</b>  <p>- 8 x Socket Head Cap Screws M4x10mm.</p>	<b>[HC103-S]</b>  <p>- 8 x Socket Head Cap Screws M4x15mm.</p>	<b>[HC104-S]</b>  <p>- 8 x Socket Head Cap Screws M4x22mm.</p>	<b>[HC111-S]</b>  <p>- 8 x Socket Head Cap Shoulder M5x30mm.</p>	<b>[HC114-S]</b>  <p>- 2 x Socket Head Cap Shoulder M5x30mm. - 2 x Metrix Hex Nut M5.</p>
<b>[HC124-S]</b>  <p>- 8 x Socket Head Cap Screws M6x10mm.</p>	<b>[HC128-S]</b>  <p>- 8 x Flat Head Cap Screws M2.5x8mm.</p>	<b>[HC132-S]</b>  <p>- 8 x Flat Head Cap Screws M3x5mm.</p>	<b>[HC134-S]</b>  <p>- 8 x Flat Head Cap Screws M3x8mm.</p>	<b>[HC153-S]</b>  <p>- 8 x Cup Point Set Screws M4x6mm.</p>	<b>[HC158-S]</b>  <p>- 8 x Cup Point Set Screws M5x20mm.</p>
<b>[HC170-S]</b>  <p>- 10 x Washer Ø2.2xØ5x0.3mm.</p>	<b>[HC176-S]</b>  <p>- 5 x Washer Ø3xØ4x0.5mm.</p>	<b>[HC184-S]</b>  <p>- 5 x Washer Ø4.3xØ11x1mm.</p>	<b>[HC188-S]</b>  <p>- 5 x Washer Ø5.3xØ15x1mm.</p>	<b>[HC194-S]</b>  <p>- 5 x Washer Ø6.3xØ15x1mm.</p>	<b>[HC200-S]</b>  <p>- 10 x Metric Hex Nylon Nuts M2.5 H3.</p>

<b>[HC206-S]</b>  - 10 x Metric Hex Nylon Nuts M3H4.	<b>[HC212-S]</b>  - 10 x Metric Hex Nylon Nuts M4H5.	<b>[HC218-S]</b>  - 10 x Metric Hex Nylon Nuts M5H4.5.	<b>[HC230-S]</b>  - 5 x Shims Ø10xØ16x1mm.	<b>[HC232-S]</b>  - 5 x Shims Ø10xØ16x0.2mm.	<b>[HC242-S]</b>  - 3 x Thread Rods M2.5 x 40mm.
<b>[HC304-S]</b>  - 1 x Belt Gates 2061-3GT-06mm.	<b>[HC315-S]</b>  - 2 x Spring 5,8/df 0,3. - 1 x Spring 8 /df 0,5. - 2 x Spring 3 /df 5.	<b>[HC335-S]</b>  - 4 x Tail Oring Damper.	<b>[HC400-S]</b>  - 4 x Flanged Bearings Ø2.5x Ø6x2.6mm.	<b>[HC402-S]</b>  - 4 x Flanged Bearings Ø3x Ø7x3mm.	<b>[HC411-S]</b>  - 4 x Bearings Ø5x Ø10x4mm.
<b>[HC414-S]</b>  - 2 x Flanged Bearings Ø6x Ø13x4mm.	<b>[HC418-S]</b>  - 2 x Flanged Bearings Ø8x Ø12x3.5mm.	<b>[HC420-S]</b>  - 2 x Bearings Ø10x Ø15x4mm.	<b>[HC422-S]</b>  - 4 x Bearings Ø10x Ø19x5mm.	<b>[HC426-S]</b>  - 2 x Bearings Ø12x Ø24x6mm.	<b>[HC430-S]</b>  - 2 x Rad Bearings Ø30x Ø37x4mm.
<b>[HC435-S]</b>  - 2 x Thrust Bearings Ø5x Ø10x4mm.	<b>[HC438-S]</b>  - 2 x Thrust Bearings Ø10x Ø18x5.5mm.	<b>[HC479-S]</b>  - 2 x Bearings Ø10x Ø22x6mm.	<b>[HC480-S]</b>  - 2 x Bearings Ø12x Ø28x7mm.	<b>[HC481-S]</b>  - 1 x Carbon Rod Ø4xØ2,5x1045mm. - 2 x Plastic Ball Linkage. - 2 x Thread Rod M2.5x40mm.	
<b>[HC482-S]</b>  - 1 x Motor Belt 255-3GT-19mm.	<b>[HA023-S]</b>  - 2 x Big Straps.	<b>[HA038-S]</b>  - 4 x ORing.	<b>[HA040-S]</b>  - 1 x Straps.	<b>[HA043-S]</b>  - 1 x Foam Blade Holder.	<b>[HA060-S]</b>  - 1 x Trasparent Elastic Band.
<b>[TB720-S]</b>  - 2 x Main Blade 720.				<b>[TB105-S]</b>  - 2 x Tail Blade 105.	





- Carefully check your model before each flight to ensure it is airworthy.
- Consider flying only in areas dedicated to the use of model helicopters.
- Check and inspect the flying area to ensure it is clear of people or obstacles.
- Rotor blades can rotate at very high speeds! Be aware of the danger they pose.
- Always keep the model at a safe distance from other pilots and spectators.
- Avoid maneuvers with trajectories towards a crowd.
- Always maintain a safe distance from the model.

## **GOBLIN COMET**

*Release 1.0 - June 2017*

### **WORLD DISTRIBUTION**

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