



Goblin 770 COMPETITION Manual

Goblin 770 Competition Manual

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SAB HELI DIVISION S.R.L.

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The Goblin Competition is the result of all the feedback and experienced gained with the original Goblin. All the changes incorporated into the Goblin Competition create a model even more reliable and efficient than ever before. New colors, new composite materials and many upgrades are included in this kit making it the best Goblin ever.

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 for updates and other important information.

VERY IMPORTANT

Inside Box 5, you will find Bag 21. This bag contains your serial number tag. 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.

To mount the serial number tag on your helicopter, please refer to page 32.

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

SAB Heli Division

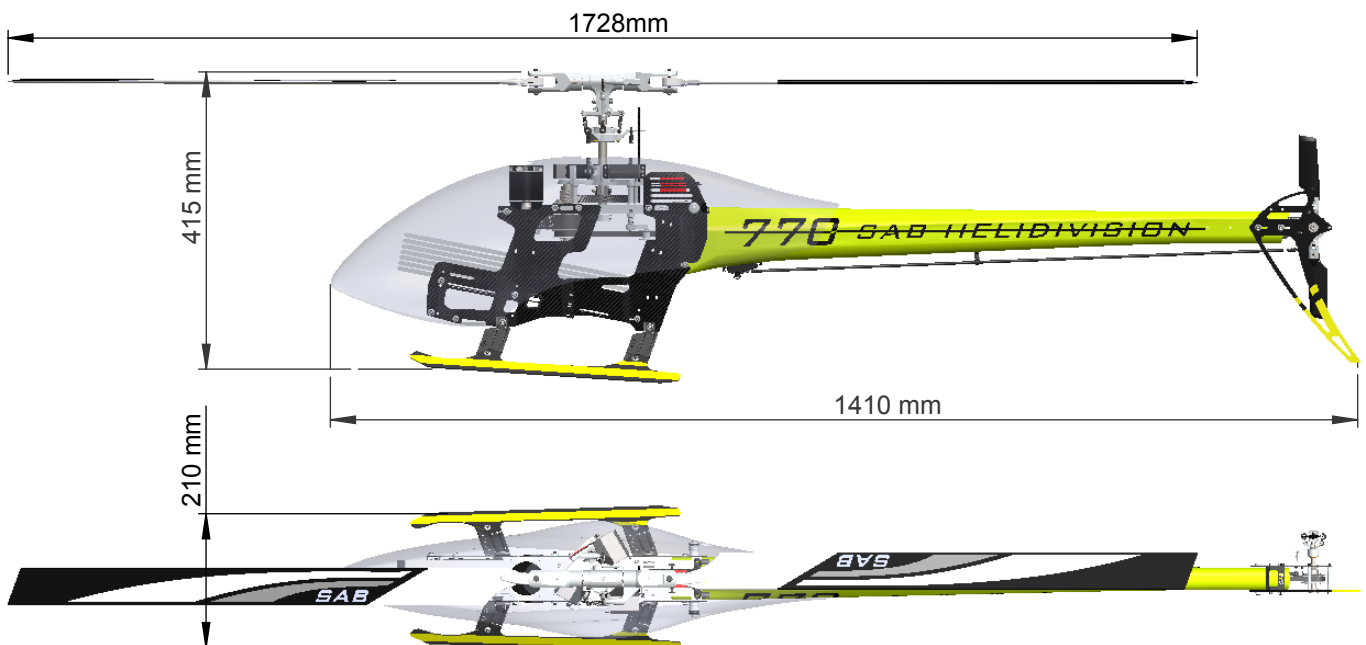
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SPECIFICATIONS



Main rotor diameter: 1728mm (with 770mm blades)
 Main blade length: 720 to 770mm
 Tail rotor diameter: 295mm
 Tail blade length: 110mm
 Main shaft diameter: 12mm
 Tail shaft diameter: 6mm
 Spindle diameter: 10mm

Weight including standard electronics: 4040g (excluding batteries).
 Motor size: Maximum 64mm diameter, maximum height 64mm
 Battery compartment: 60x58x350mm (adaptable to 75x58x350mm)



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.

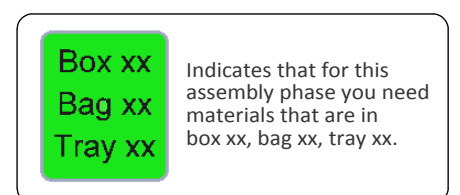
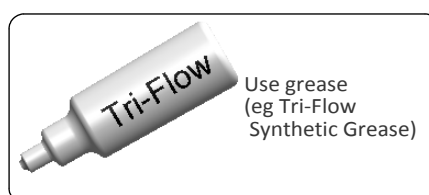
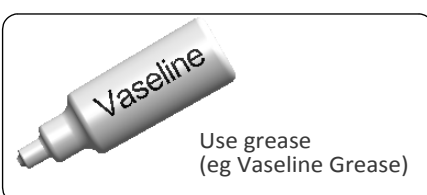
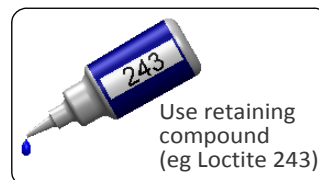
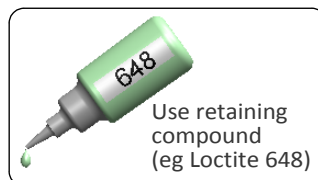
NOTES FOR ASSEMBLY

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:





ADDITIONAL COMPONENTS REQUIRED

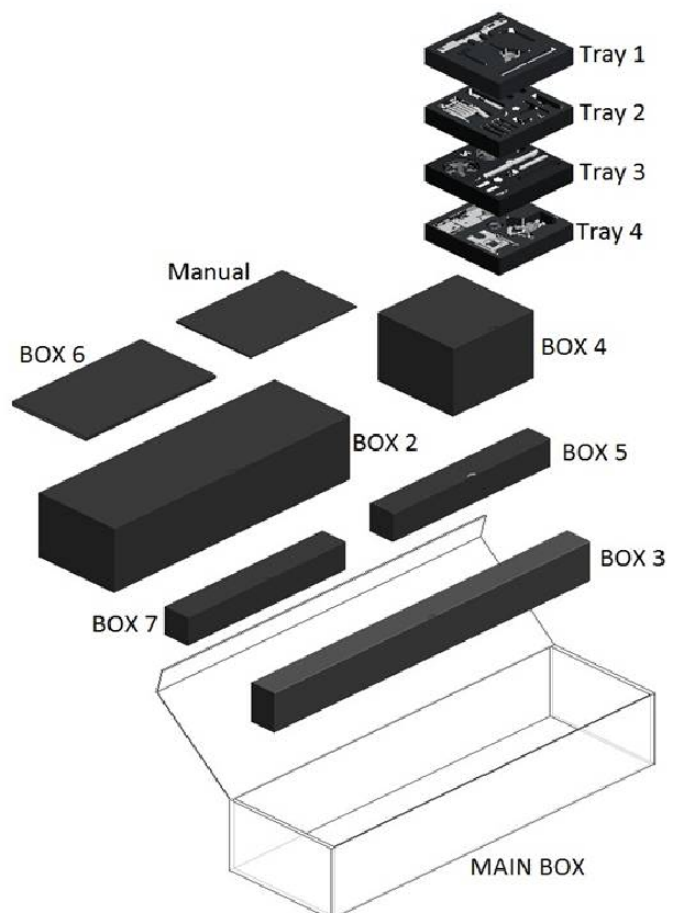
- *Electric Motor: 400 - 520Kv
Maximum diameter 64mm,
Maximum height 64mm,
Pinion shaft diameter 6/8mm
- *Speed controller: minimum 120A , suggest 160A
- *Batteries: 12S-5500 mAh, 14S-4500/5000 mAh
- *1 flybarless 3 axis control unit
- *Radio power system, if not integrated with the ESC
- *3 cyclic servos
- *1 tail rotor servo
- *6 channel radio control system on 2.4 GHz

(See configuration examples on page 21)

TOOLS, LUBRICANTS, ADHESIVES

- *Generic pliers
- *Hexagonal driver, size 1.5,2,2.5,3,4mm
- *4mm T-Wrench
- *5.5mm Socket wrench (for M3 nuts)
- *8mm Hex fork wrench (for M5 nuts)
- *Medium threadlocker (eg. Loctite 243)
- *Strong retaining compound (eg. Loctite 648)
- *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:



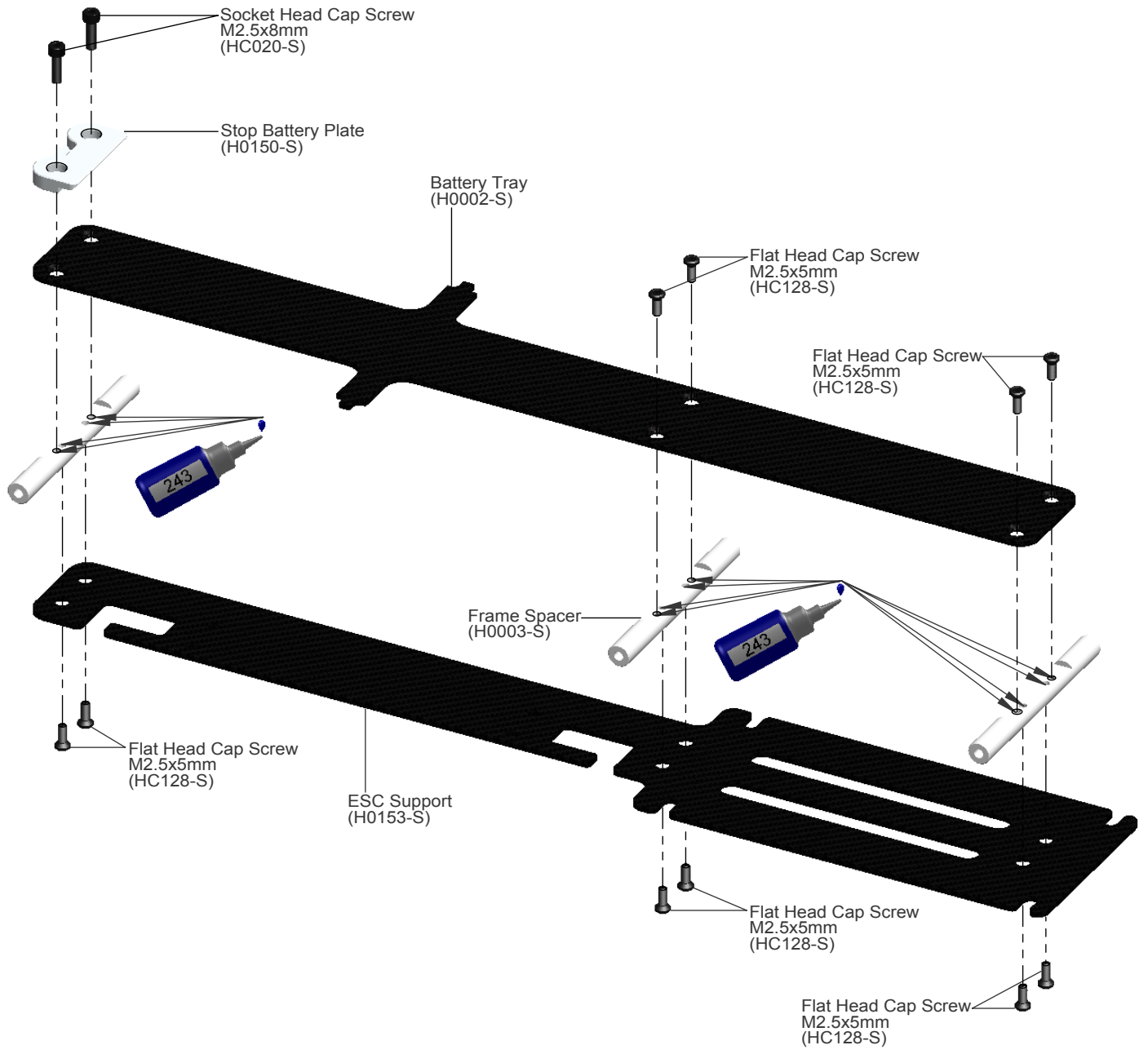
Inside the main box:

- Box 2: Canopy, Blade Holder.
- Box 3: Boom, Blades, Tail blades, Carbon rod.
- Box 4: Mechanical parts in 4 trays:
Tray 1: Main rotor
Tray 2: Carbon frame and tail rotor
Tray 3: Transmission
Tray 4: Main structure
- Box 5: Bags
- Box 6: Carbon parts
- Box 7: Landing gear support

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.



Box 7, Bag 1-1, Tray 2

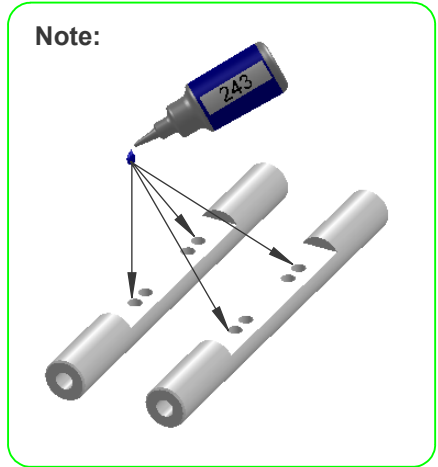
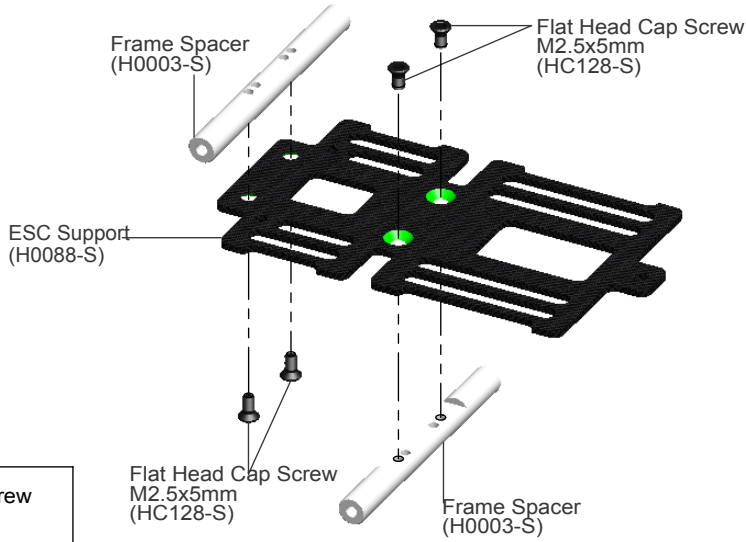


- Socket Head Cap Screw M2.5x8mm
x2
- Flat Head Cap Screw M2.5x5mm
x10

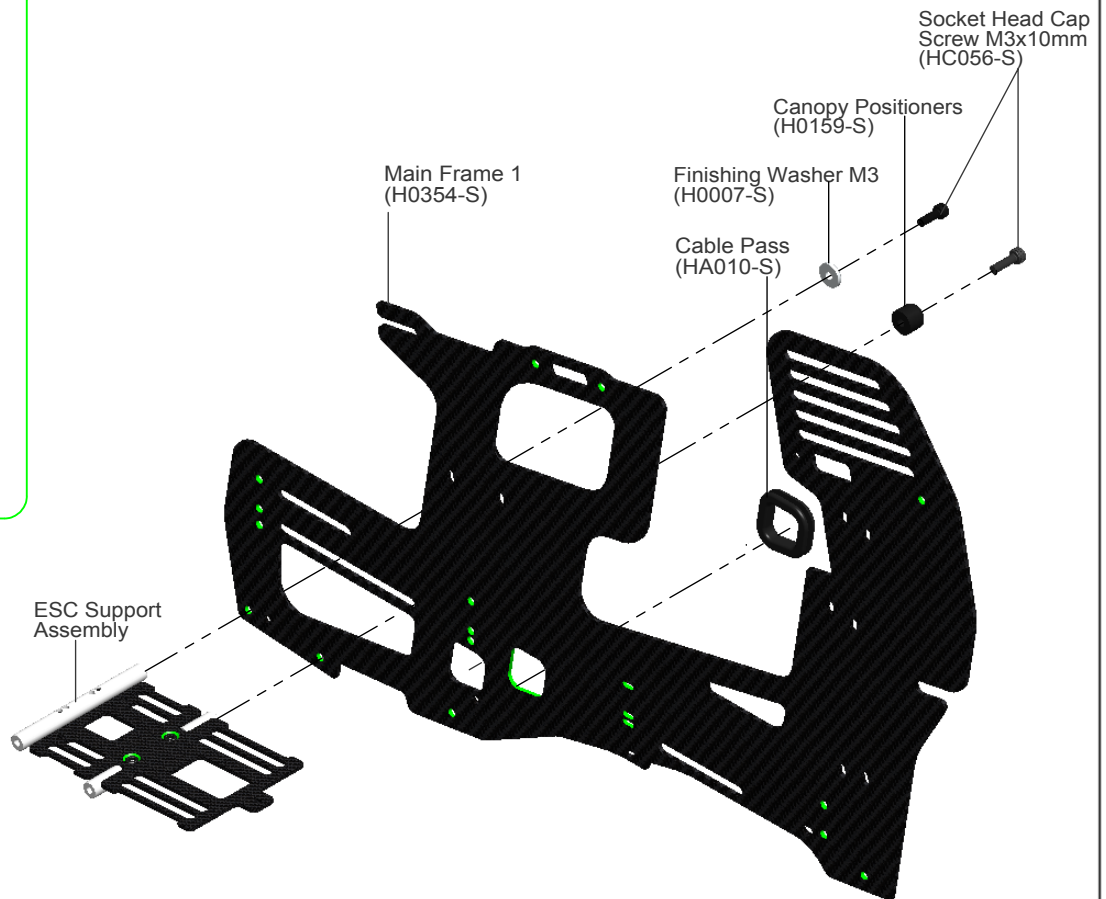
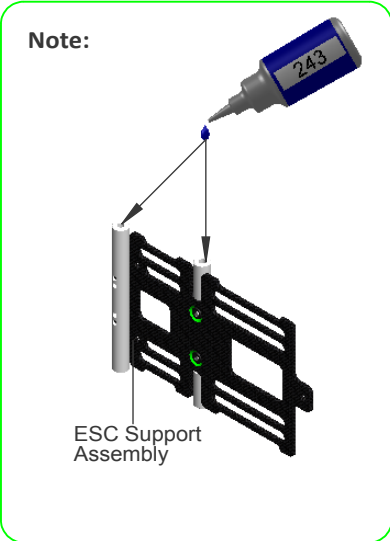


Box 6, Bag 1-2;1-3, Tray 2

ESC Support Assembly



- Flat Head Cap Screw
M2.5x5mm
-
-x4



- Socket Head Cap Screw
M3x10mm
-
-x2
-
- Finishing Washer M3
-
-x1

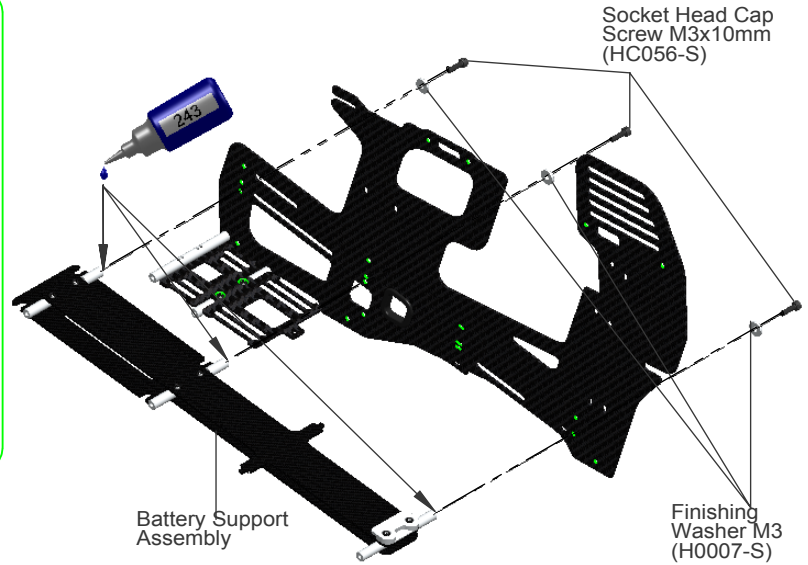
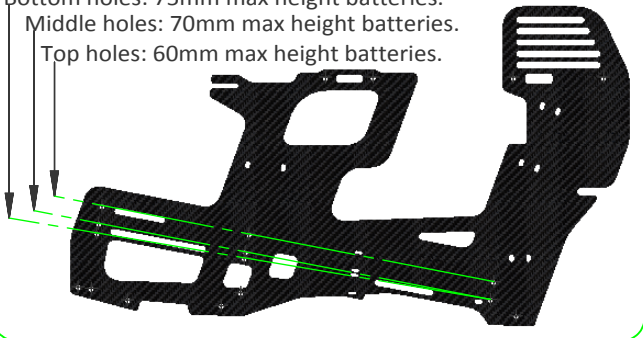


Box 6, Bag 1-2

Note:

Choose the position for the batteries
Normally is used the average position

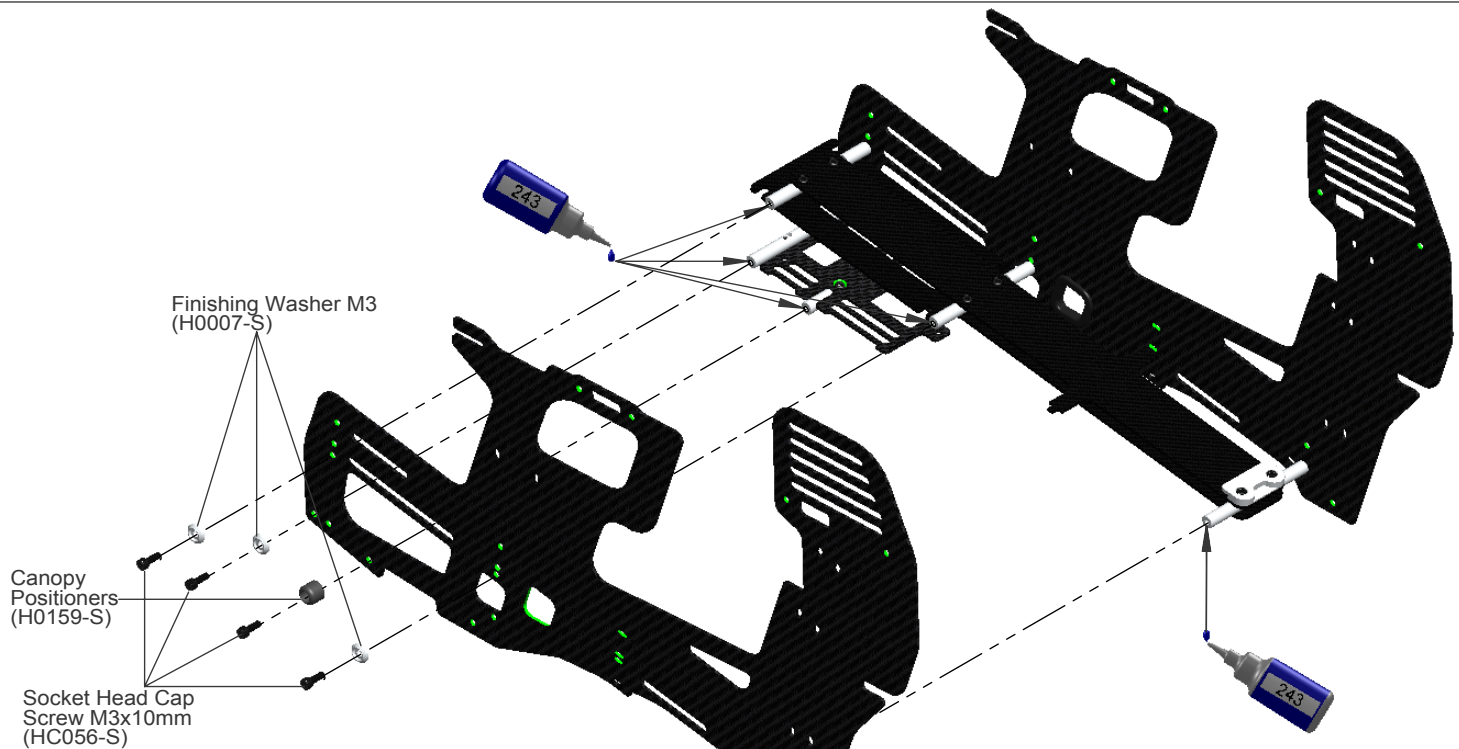
Bottom holes: 75mm max height batteries.
Middle holes: 70mm max height batteries.
Top holes: 60mm max height batteries.



Socket Head Cap Screw M3x10mm



Finishing Washer M3



Socket Head Cap Screw M3x10mm



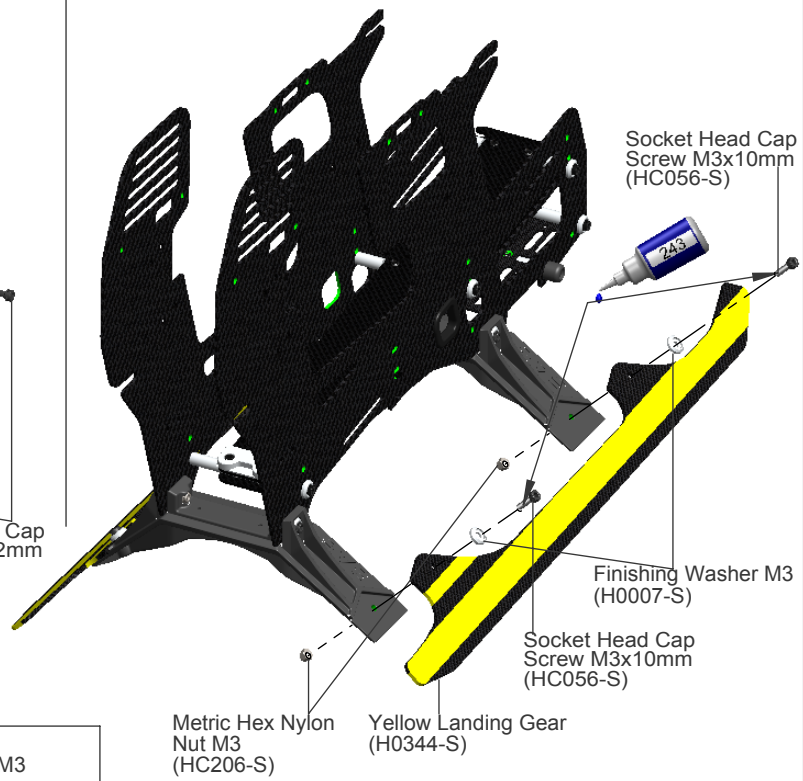
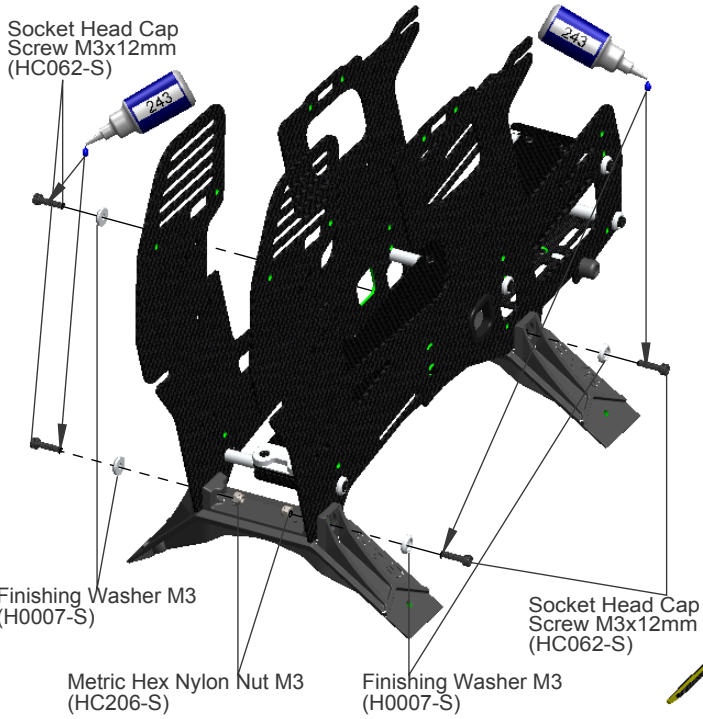
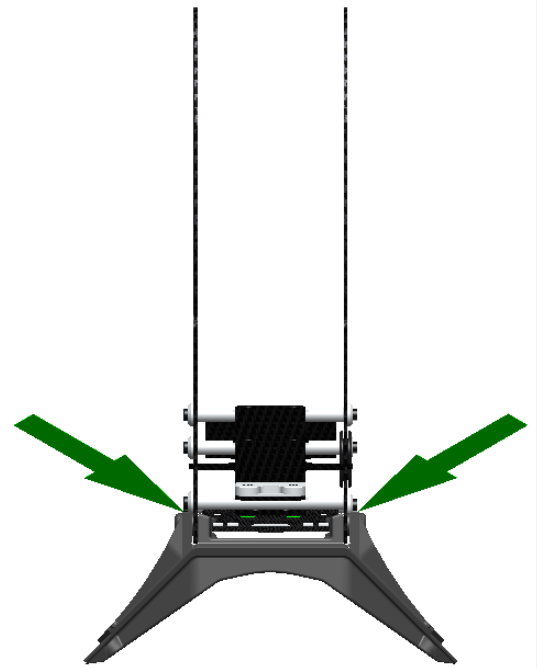
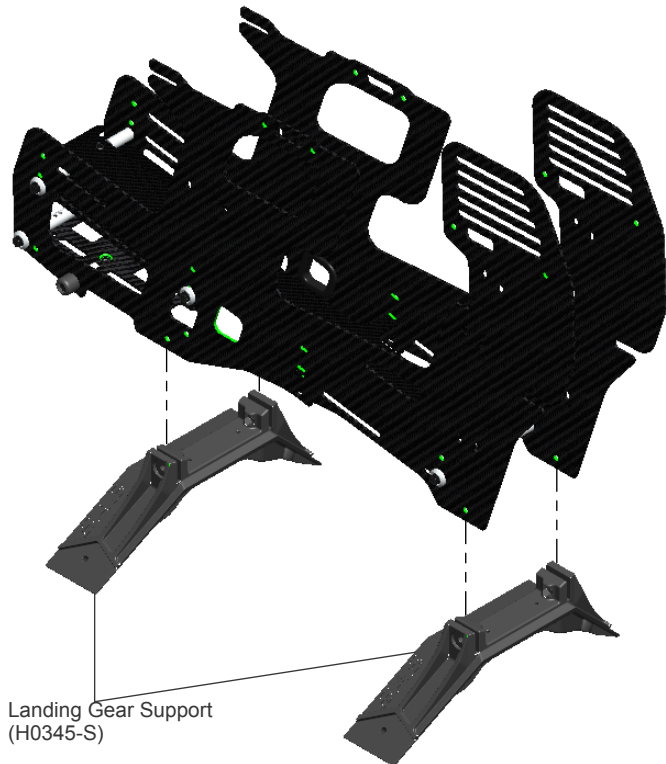
Finishing Washer M3










Finishing Washer M3 (H0007-S)
Socket Head Cap Screw M3x10mm (HC056-S)



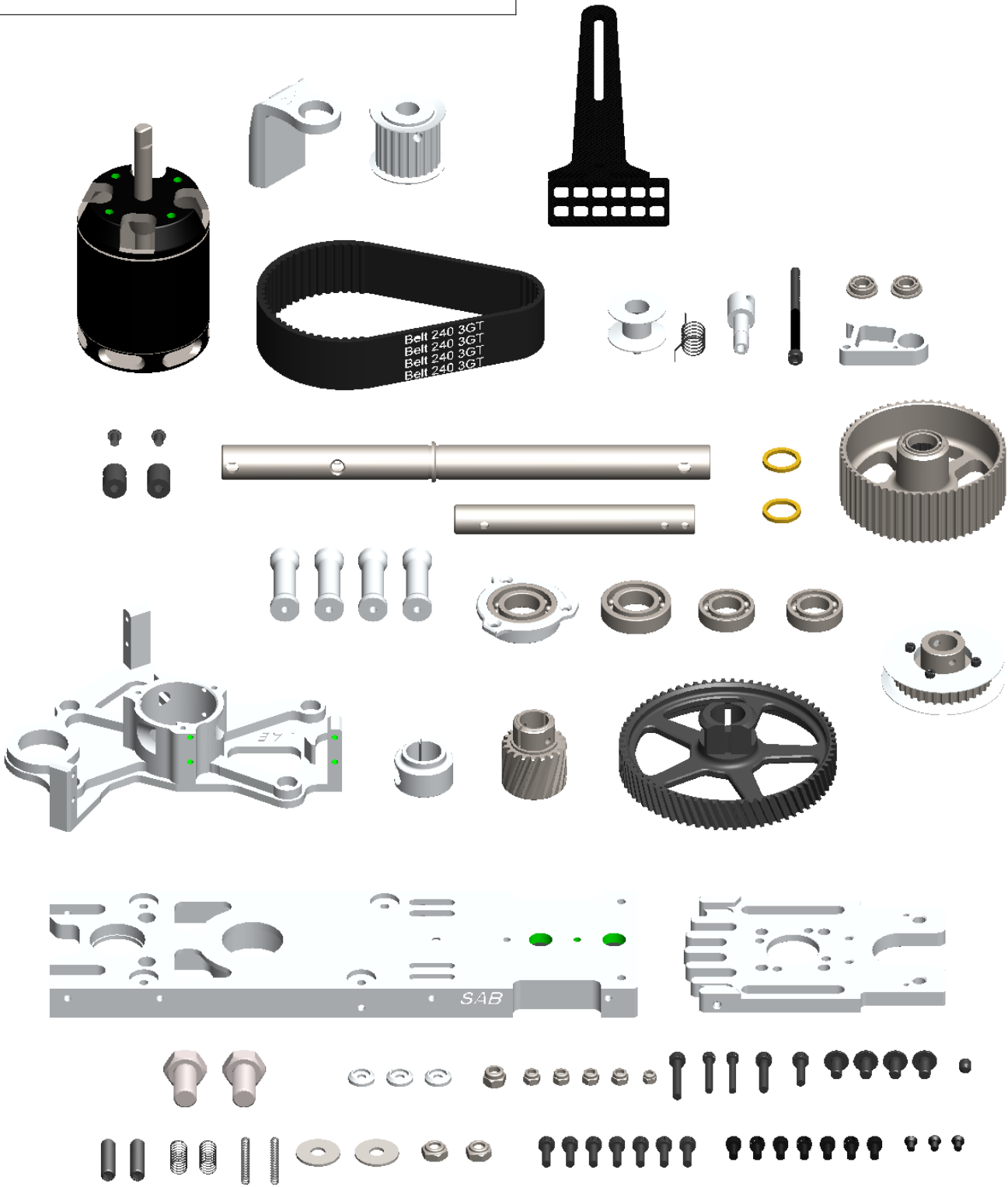
Box 7, Box 6, Bag 2



- | | |
|---|---|
| Socket Head Cap Screw M3x12mm | Metric Hex Nylon Nut M3 |
|  x4 |  x8 |
| Socket Head Cap Screw M3x10mm | Finishing Washer M3 |
|  x4 |  x8 |

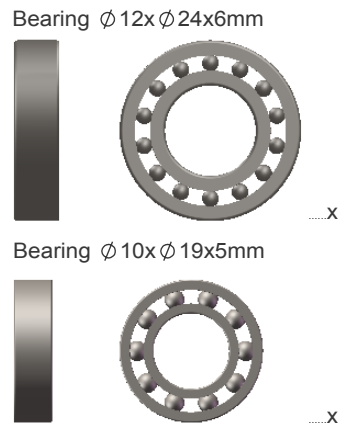
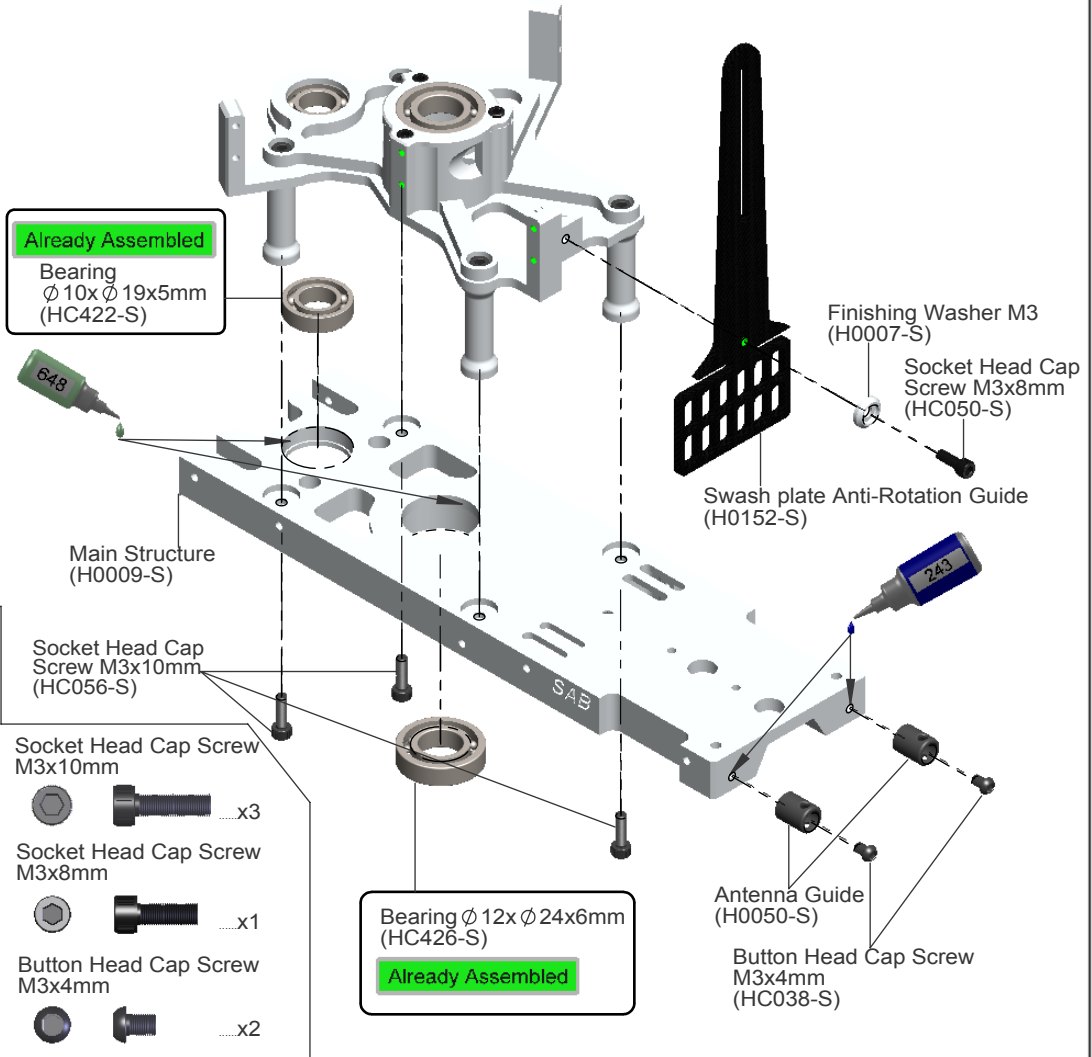
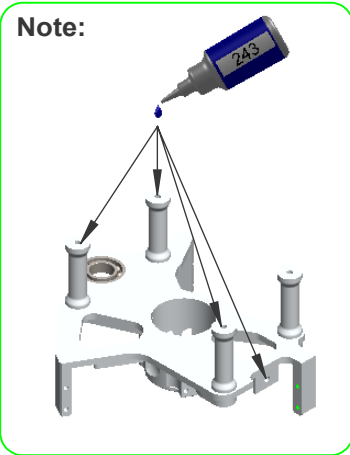
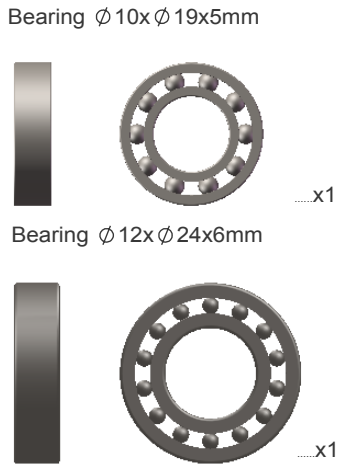
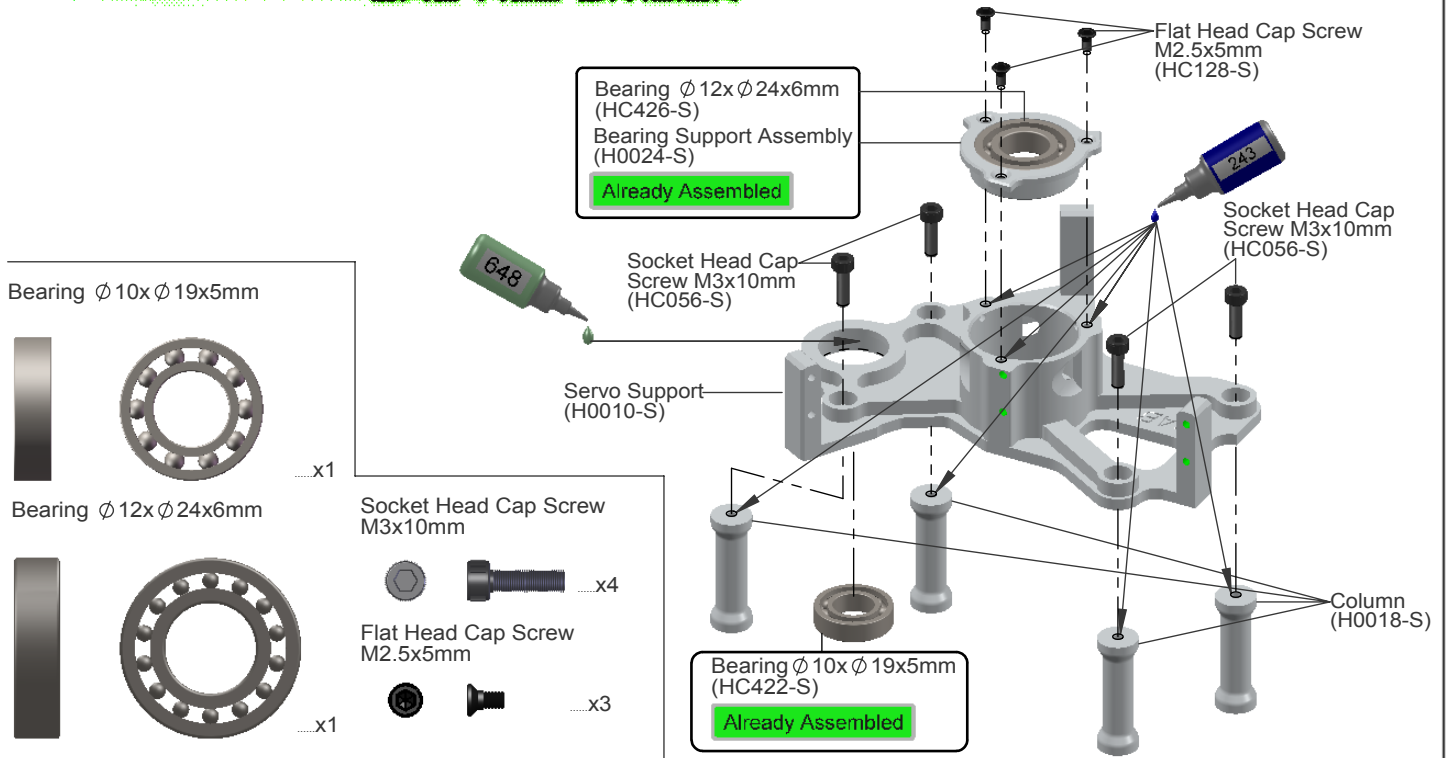


5 - Transmission Assembly





Box 6, Bag 3, Tray 3, Tray 4



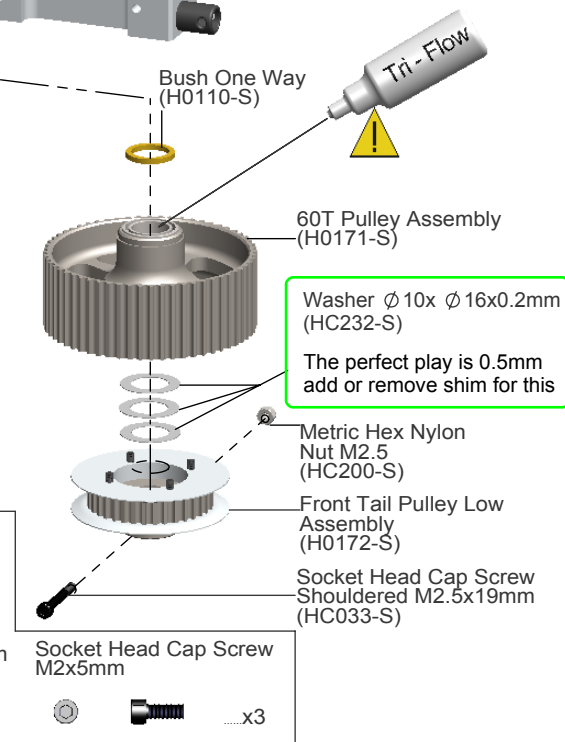
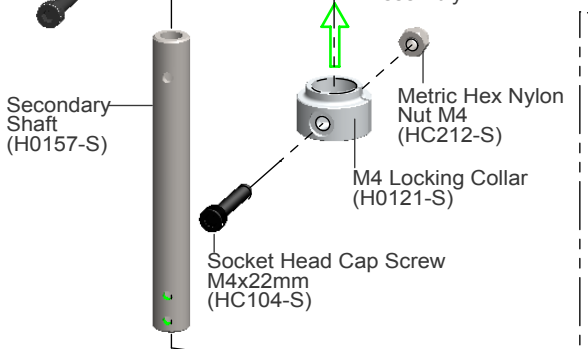
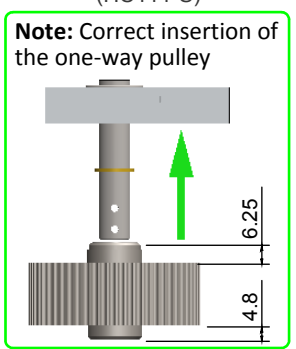
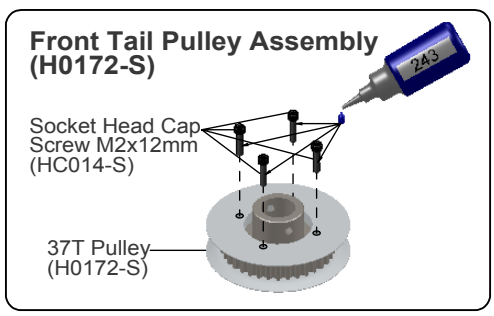
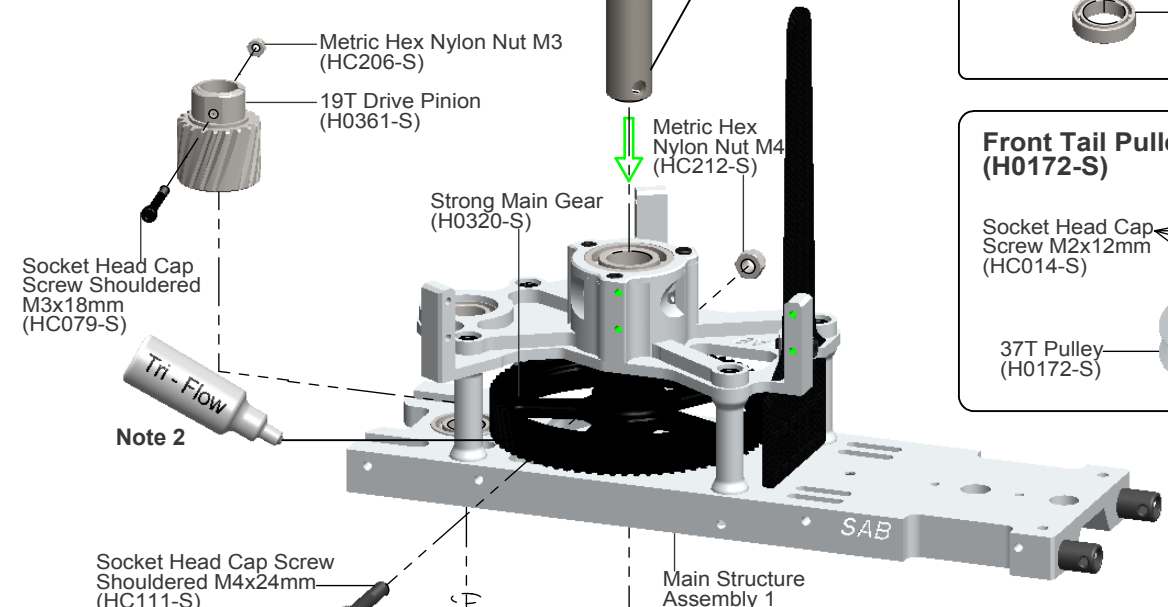
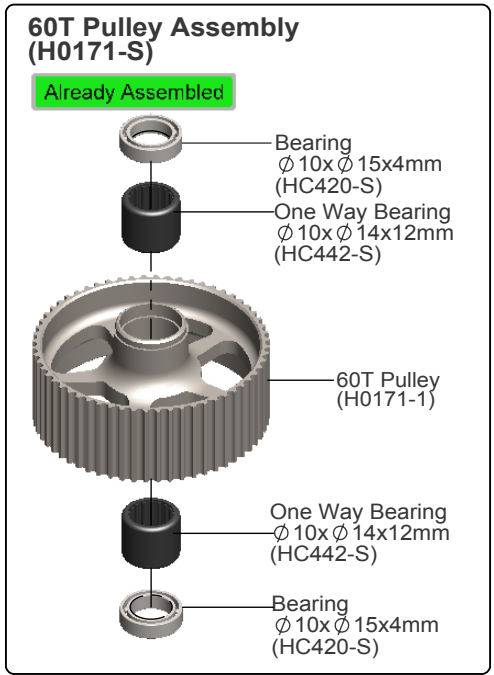
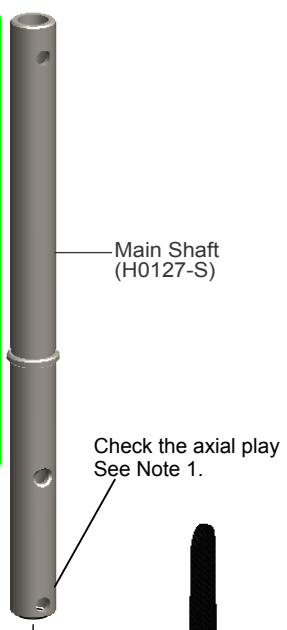


Bag 4, Tray 1, Tray 3

Note 1: 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.

Note 2:
The pinion and gear are designed to have zero backlash. This leads to initial "rough" rotation. After some run in flights (3-5 flights) it will begin to rotate freely, ensuring perfect contact and the ability to transmit maximum power.

It is very important to lubricate these two elements with a lubricant (Tri-Flow Synthetic grease).



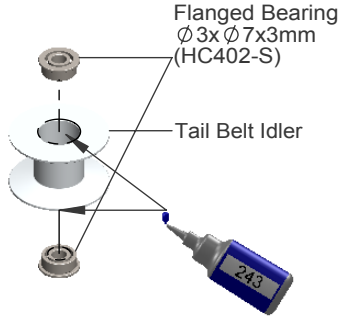
- | | | | |
|--|---------|--|---------|
| Metric Hex Nylon Nut M2.5 |x2 | Metric Hex Nylon Nut M4 |x2 |
| Socket Head Cap Screw Shouldered M2.5x18mm |x2 | Socket Head Cap Screw Shouldered M4x24mm |x1 |
| Socket Head Cap Screw M4x22mm |x1 | Socket Head Cap Screw Shouldered M4x24mm |x1 |
| | | Socket Head Cap Screw M2x5mm |x3 |



Bag 5, Tray 3

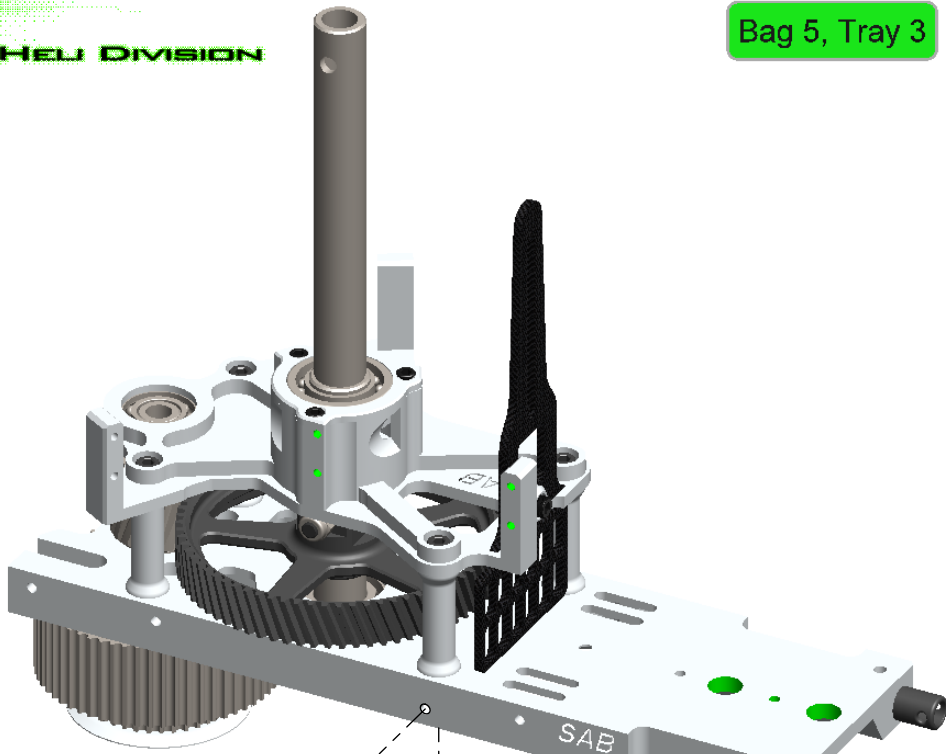
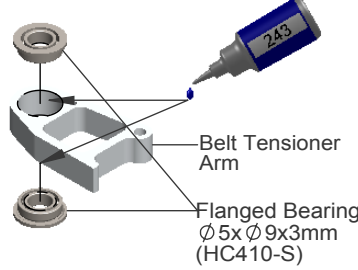
Tail Belt Idler Assembly (H0174-S)

Already Assembled



Belt Tensioner Arm Assembly (H0174-S)

Already Assembled



- Button Head Cap Screw M3x4mm (HC038-S)
- Belt Tensioner Support (H0174-S)
- Spring de 8 / df0.5 / LL8 (HC315-S)
- Belt Tensioner Arm Assembly (H0174-S)
- Washer Ø3.2xØ6x0.5mm (HC180-S)
- Washer Ø3xØ4x0.5mm (HC176-S)
- Tail Belt Idler Assembly (H0174-S)
- Socket Head Cap Screw M3x40mm (HC091-S)
- Socket Head Cap Screw M3x12mm (HC062-S)
- Main Structure Assembly 3

Button Head Cap Screw M3x4mm



Socket Head Cap Screw M3x12mm



Socket Head Cap Screw M3x40mm



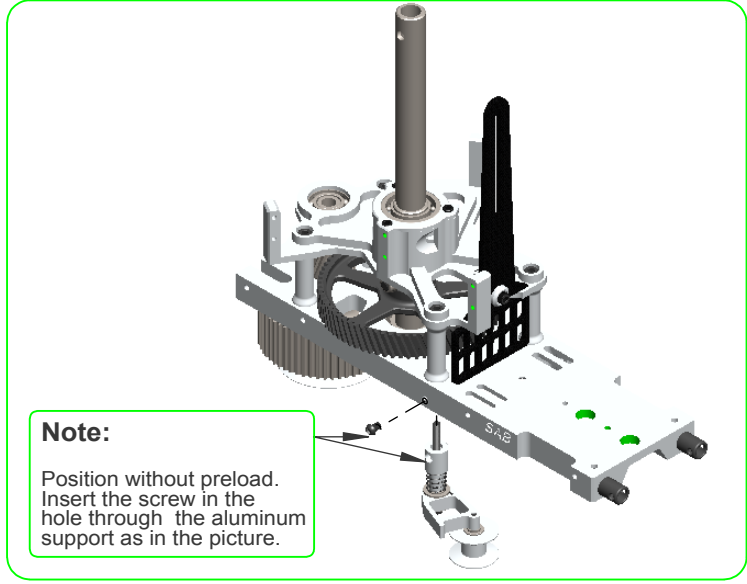
Flanged Bearing Ø5xØ9x3mm



Flanged Bearing Ø3xØ7x3mm



Washer Ø3xØ4x0.5mm

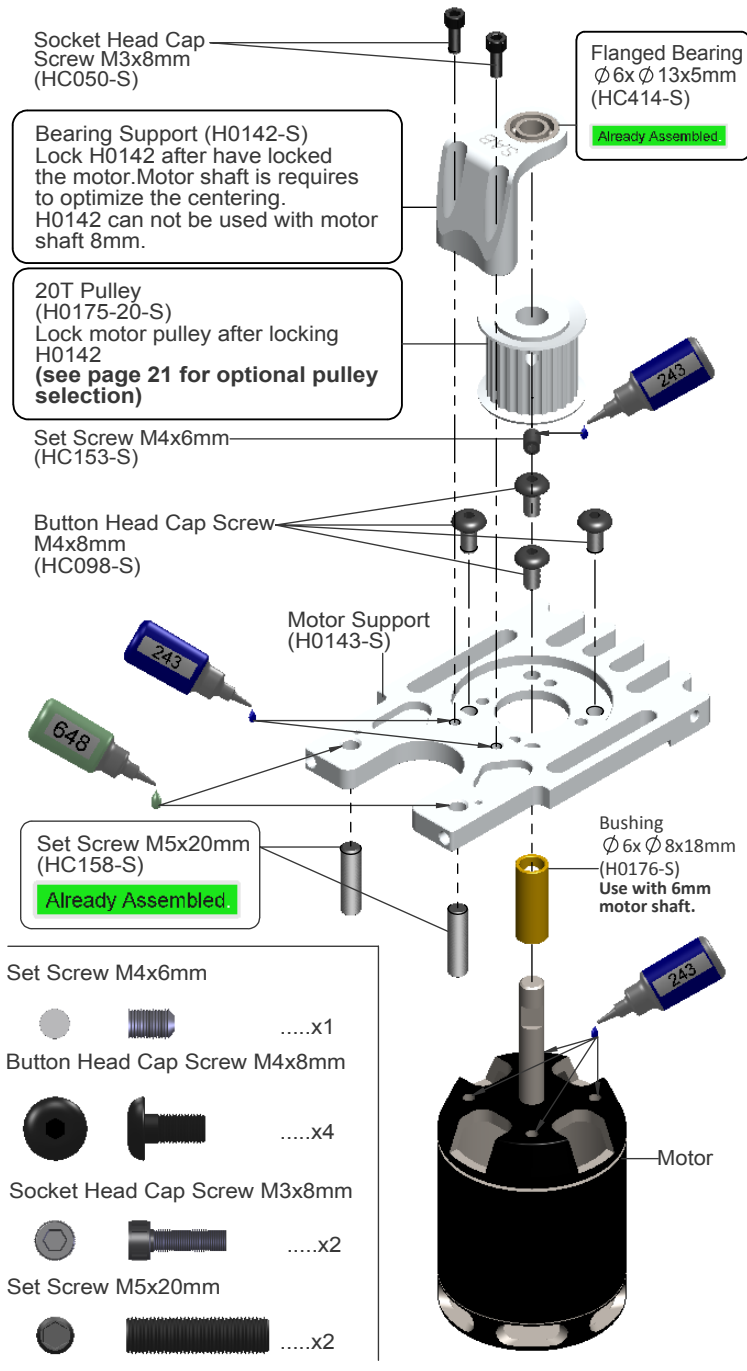


Note:
Position without preload. Insert the screw in the hole through the aluminum support as in the picture.

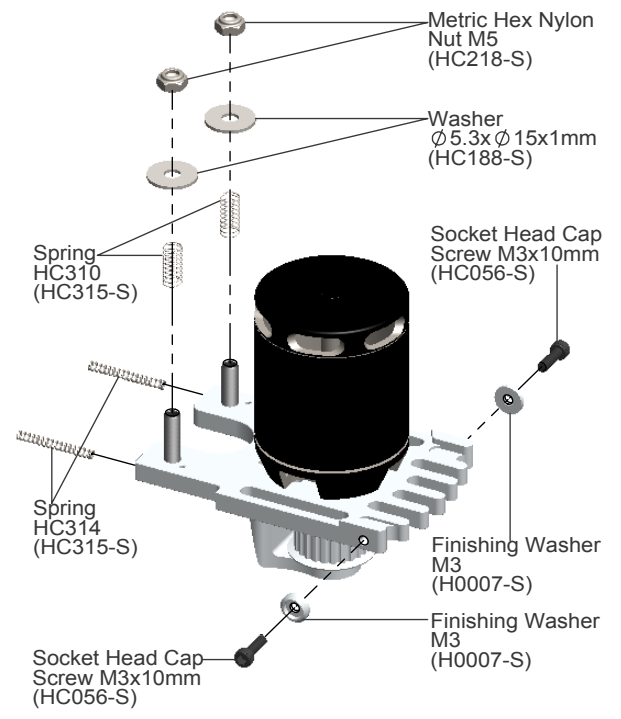


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Bag 6, Tray 3, Tray 4



- Set Screw M4x6mmx1
- Button Head Cap Screw M4x8mmx4
- Socket Head Cap Screw M3x8mmx2
- Set Screw M5x20mmx2

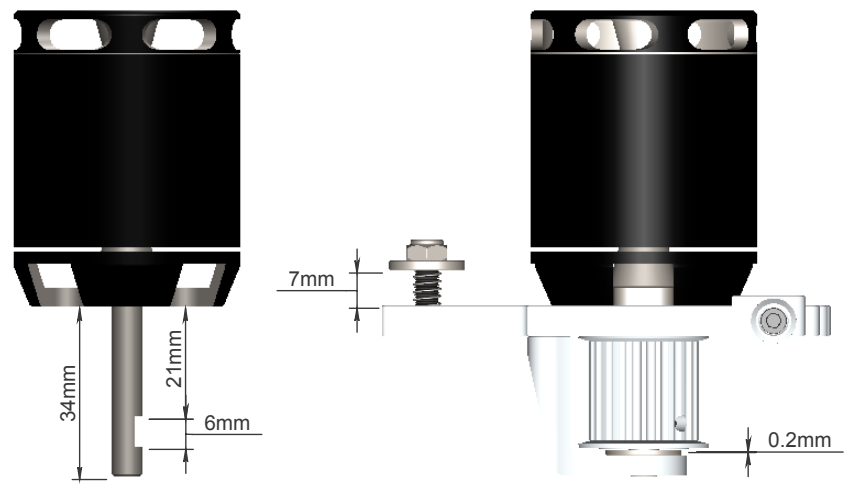


- Finishing Washer M3x2
- Socket Head Cap Screw M3x10mmx2
- Washer $\varnothing 5.3 \times \varnothing 15 \times 1 \text{mm}$ x2

Note for 6mm motor shaft

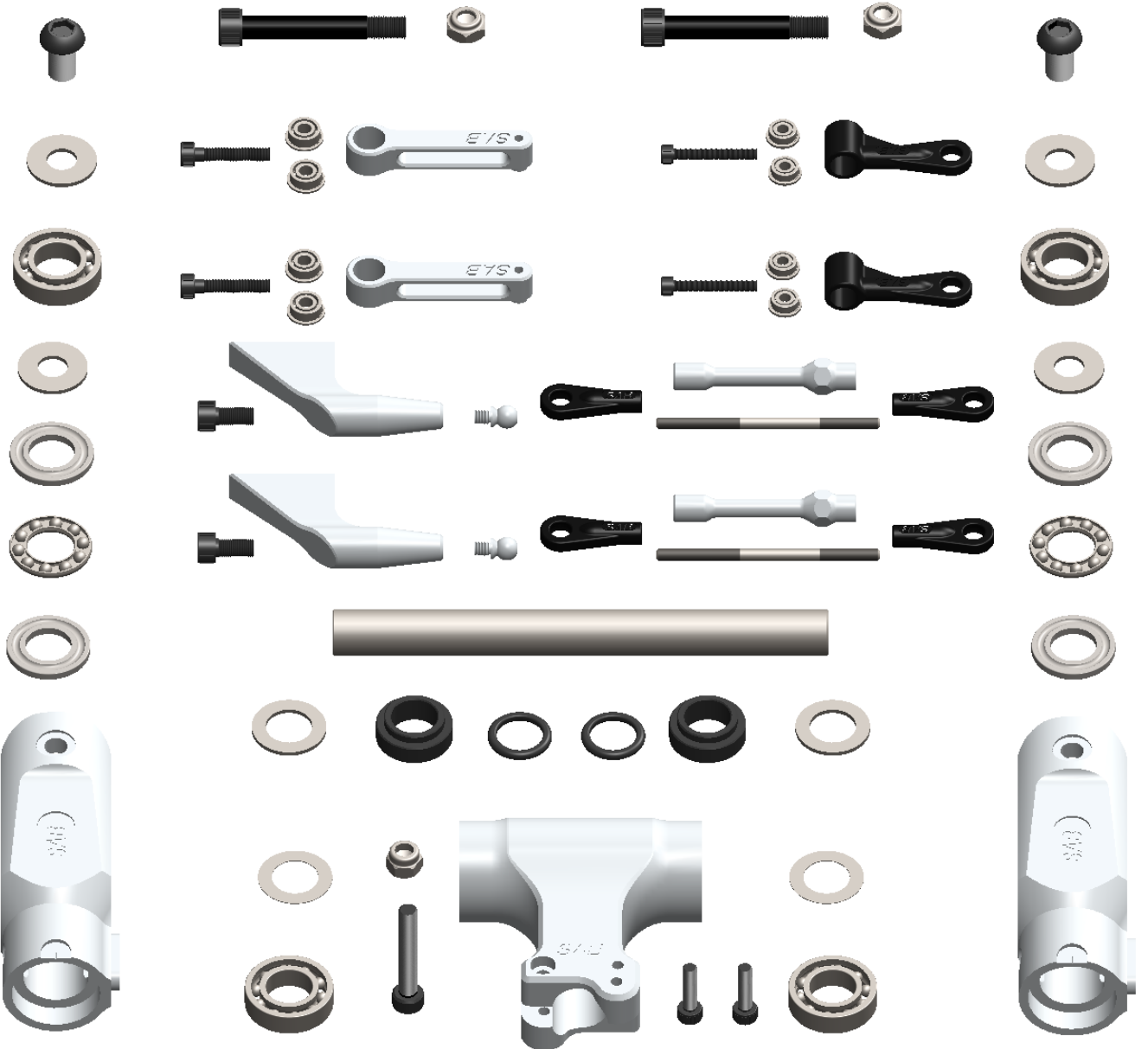
To maximize space for the batteries, it is advisable to shorten the motor shaft. Follow the dimensions given in this drawing. For the cut, you can use an electric tool like a "Dremel" with a cut-off disc.

Additionally, ensure the motor shaft has an appropriate 'flat' for one of the set screws.





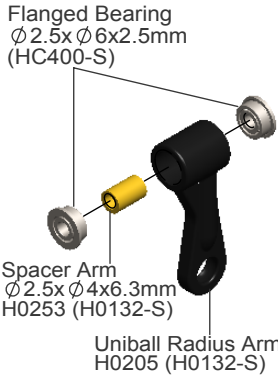
6 - Main Rotor



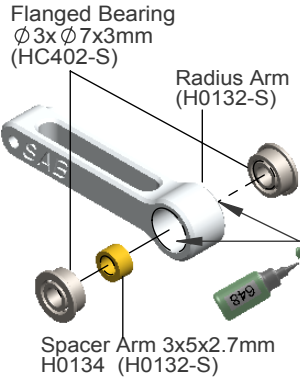


Bag 7, Tray 1

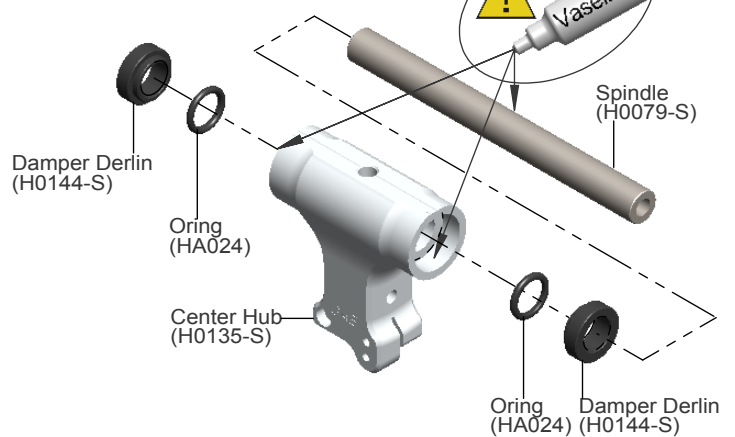
Uniball Radius Arm... x2 Assembly



Radius Arm ... x2 Assembly



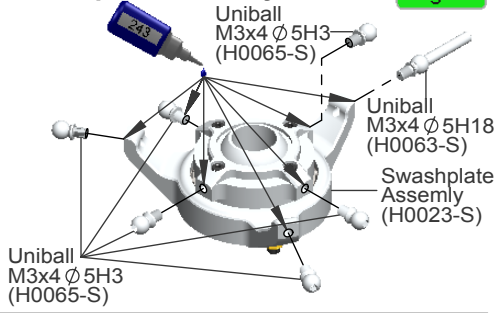
Center Hub Assembly



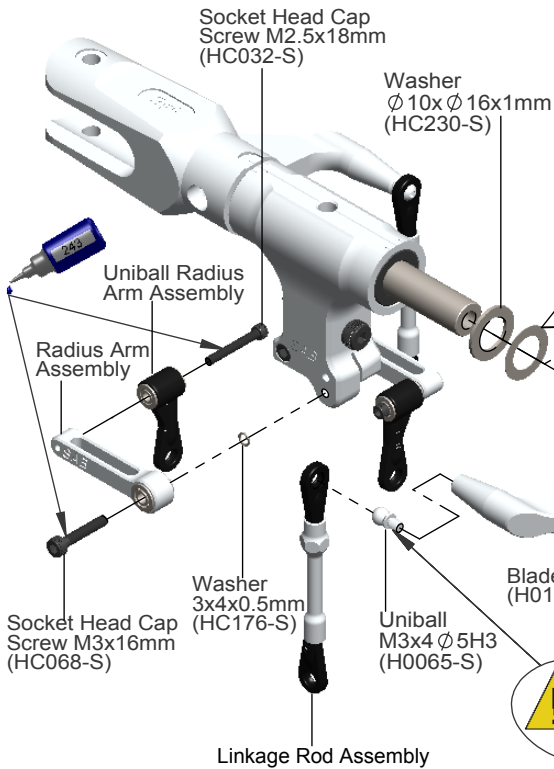
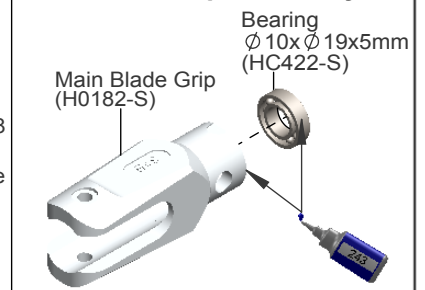
Note:

The main rotor is assembled provisionally without loctile. Need to add Loctile 243 in the screws M4x10 and M6x10.

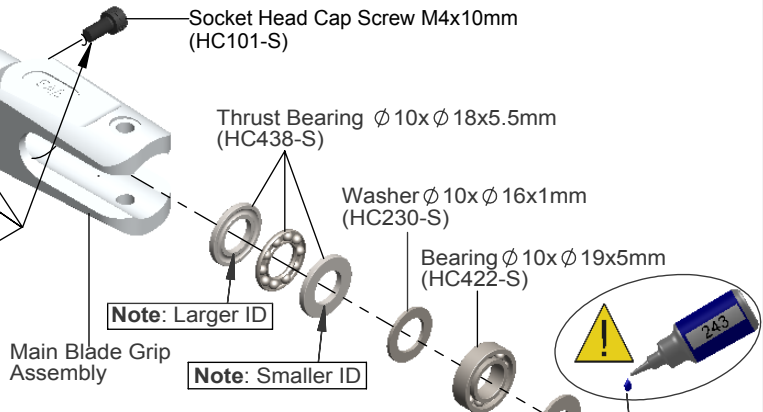
Swashplate Assembly



Main Blade Grip Assembly...x2

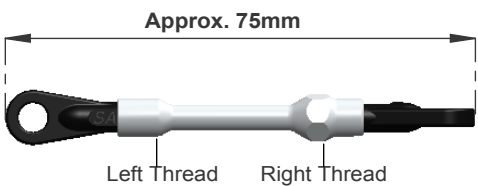
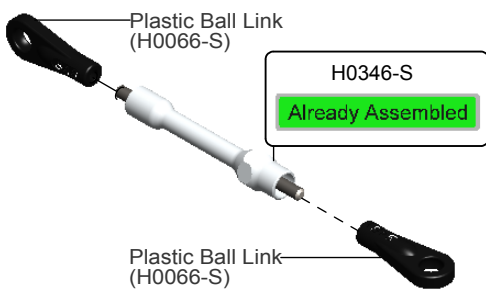


The HPS head should be assembled with one, 1mm shim (HC230) and one, 0.2mm shim (HC232) on each side. If the blade grips are too tight, you can remove the 0.2mm shim (HC232) from each side. After approximately 10/20 flights, please check preload, you can add one or two 0.2mm shim (HC232) if preload has changed.



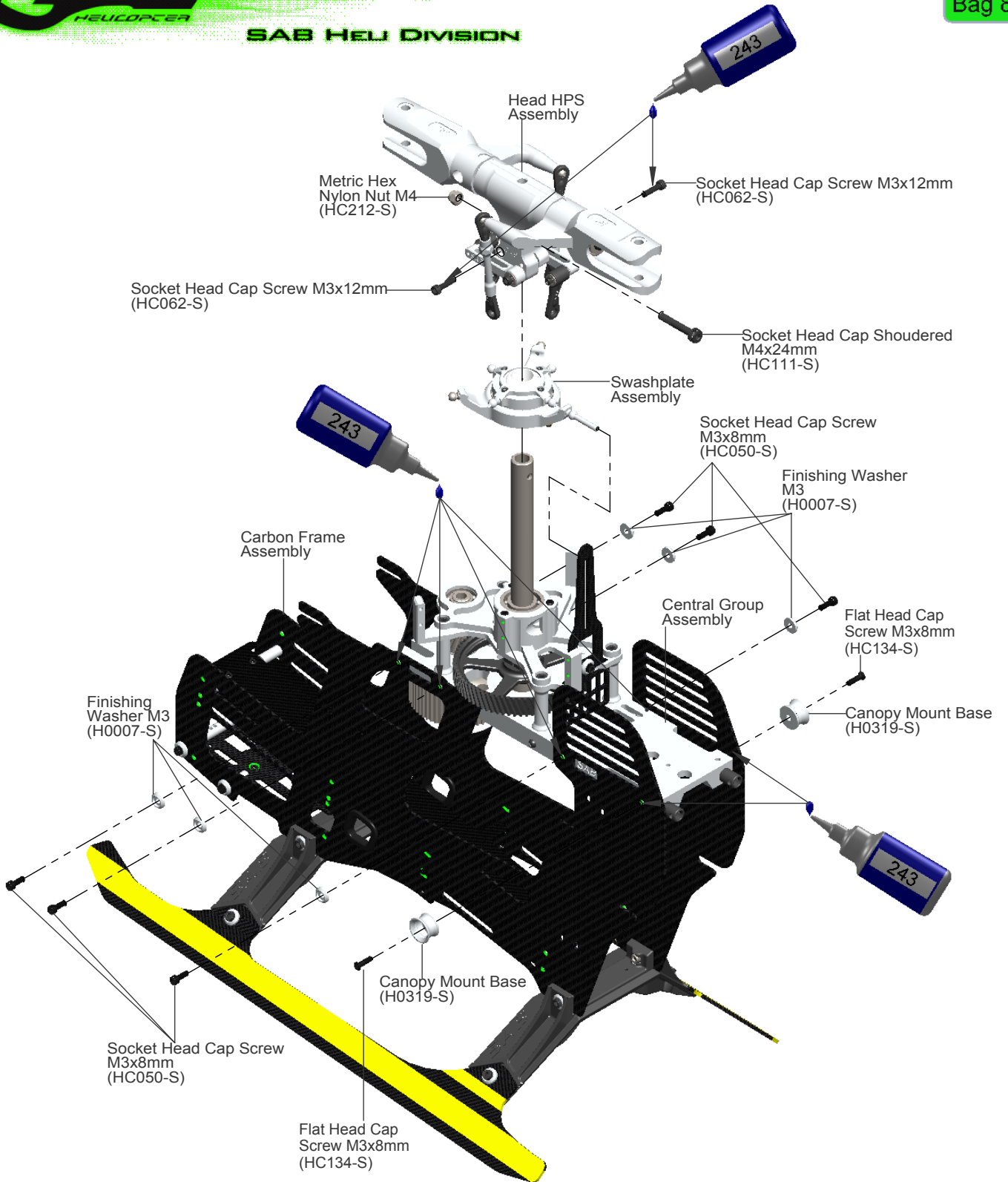
Linkage Rod A Assembly ...x2

Bag 7-3



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



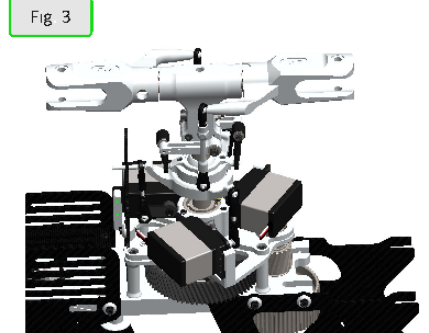
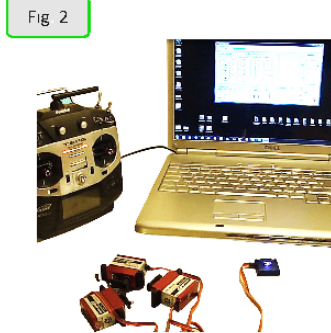
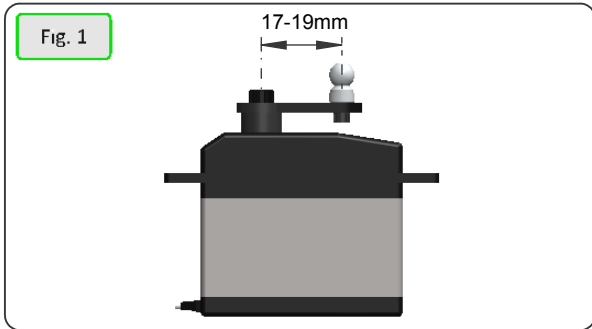


| | | | | | |
|--|--|-------|--|--|-------|
| | | ...x6 | | | ...x6 |
| | | ...x2 | | | ...x1 |
| | | ...x1 | | | |



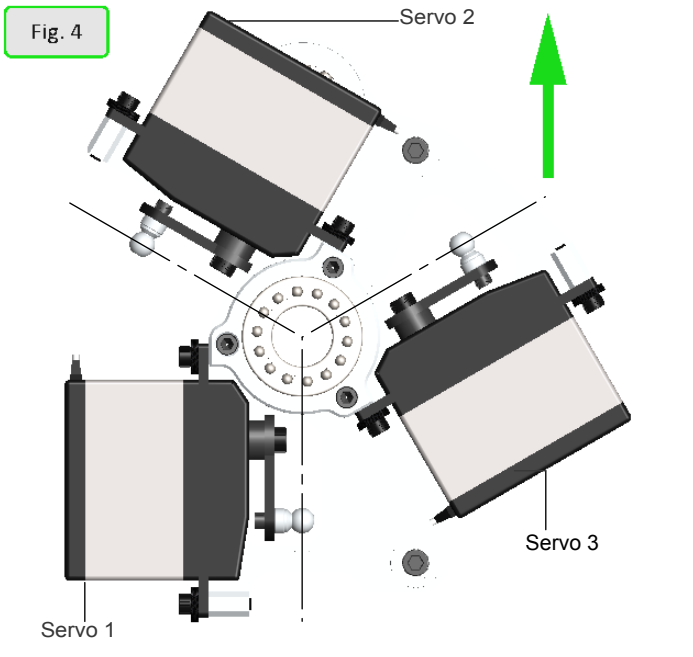
INSTALLATION OF SWASHPLATE SERVOS

The linkage ball must be positioned between **17-19 mm** out on the servo arm (**figure 1**). 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 (**figure 2**). Proceed with installation following the instructions below. **Figure 3** shows a completed installation.

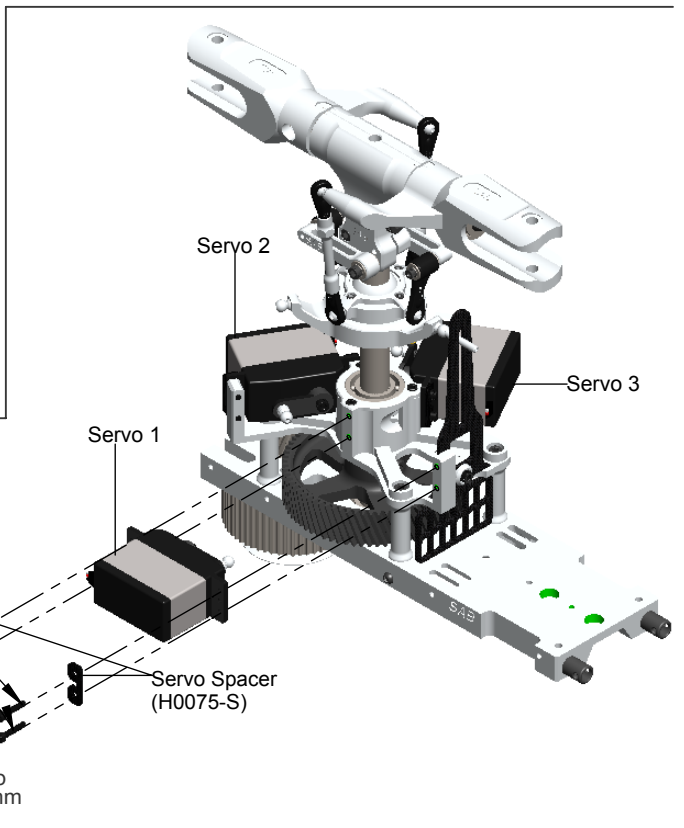
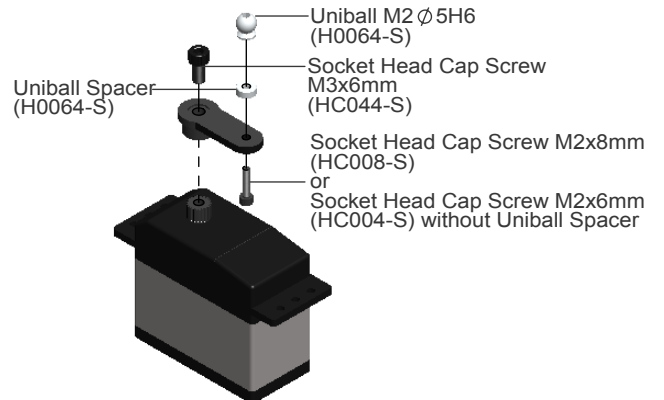


ASSEMBLY OF THE BALL ON THE HORN.

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 4 illustrates this.



SERVO ASSEMBLY 1, 2, 3



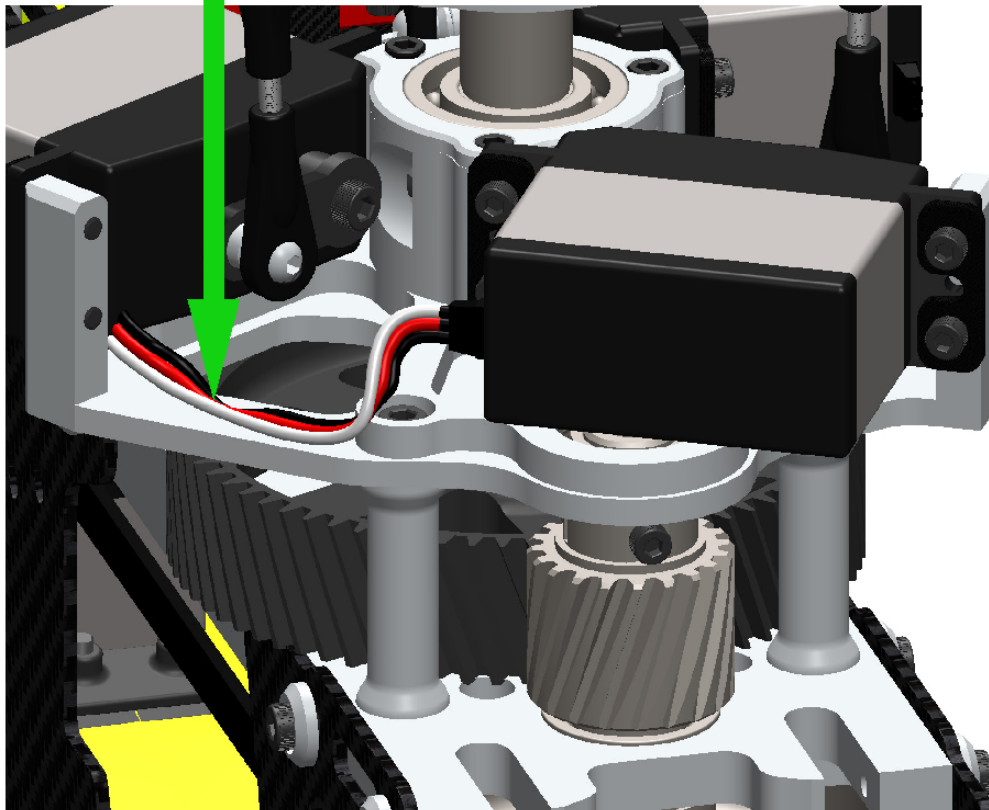
- Socket Head Cap Screw M2.5x8mm
- x3
- Socket Head Cap Screw M2.5x12mm
- x9

- Socket Head Cap Screw M2.5x8mm (HC020-S)
- Socket Head Cap Screw M2.5x12mm (HC026-S)
- Servo Spacer (H0075-S)



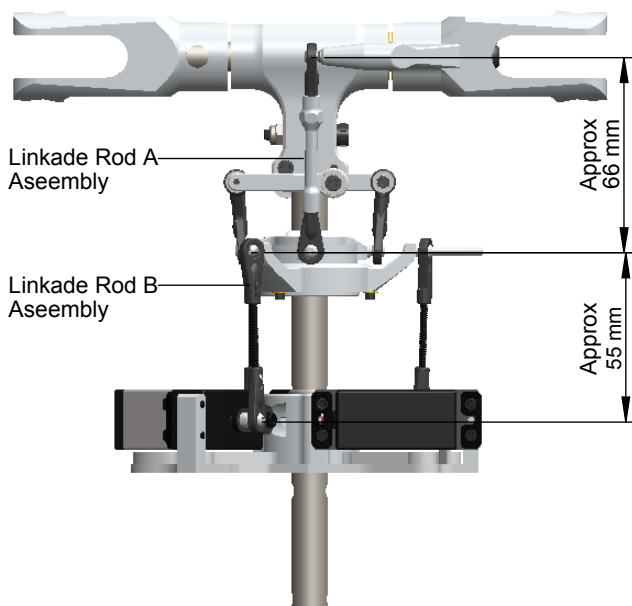
The wire for the front servo must be positioned here

Fig. 5

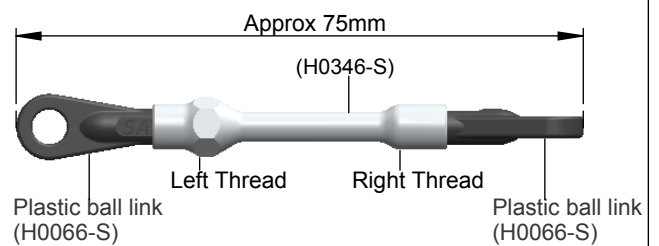


Head HPS Version Preliminary Setup

Adjust the linkage as shown. The linkage Rod A has thread right/left. Turning, you can change the tracking without disconnecting the plastic ball link.

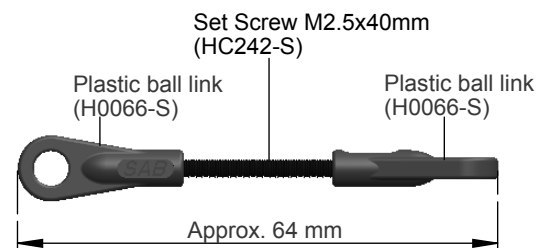


Linkage Rod A Assembly ... x2



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

Linkage Rod B Assembly ... x3



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



DE-BURR THE SIDE FRAMES

We recommend de-burring the edges of the carbon parts in areas where electrical wires run.



ESC INSTALLATION

The speed controller (ESC) is installed in the front of the helicopter.
 Figure 1 shows the mounting area. Figure 2 shows the installation of the Kosmik ESC from Kontronik.
 You can also use the heat sink (H0165-S) if you wish for improved cooling (Figure 3,4,5)

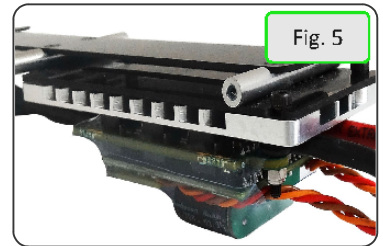
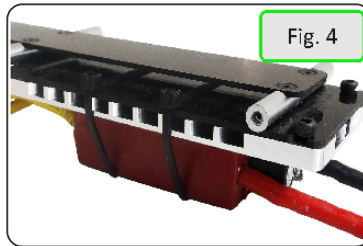
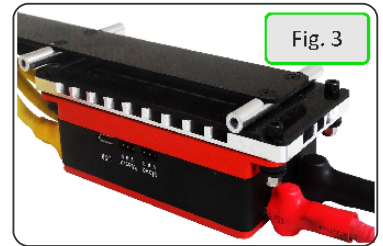
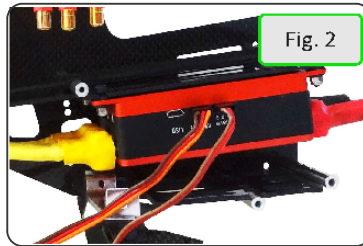
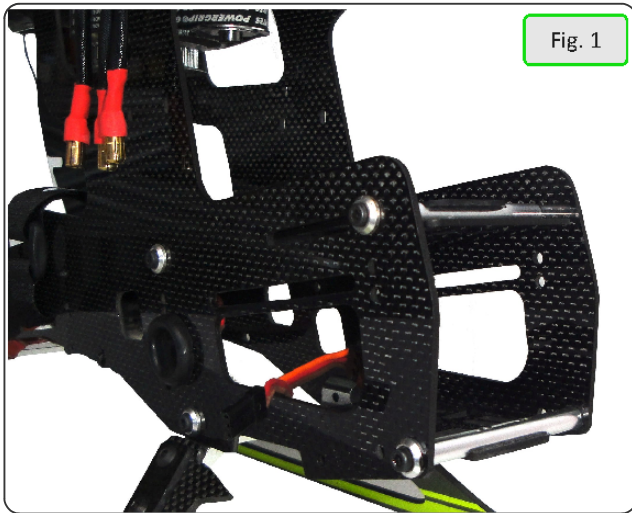
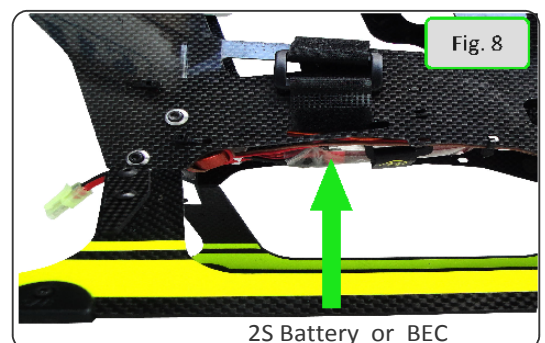
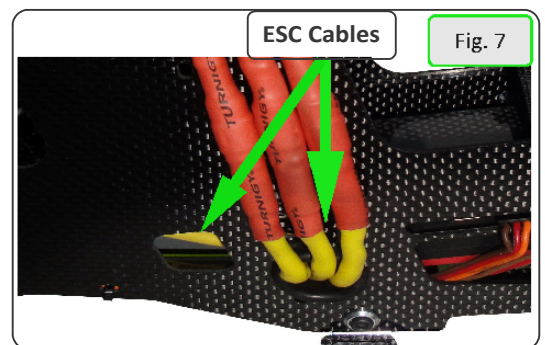
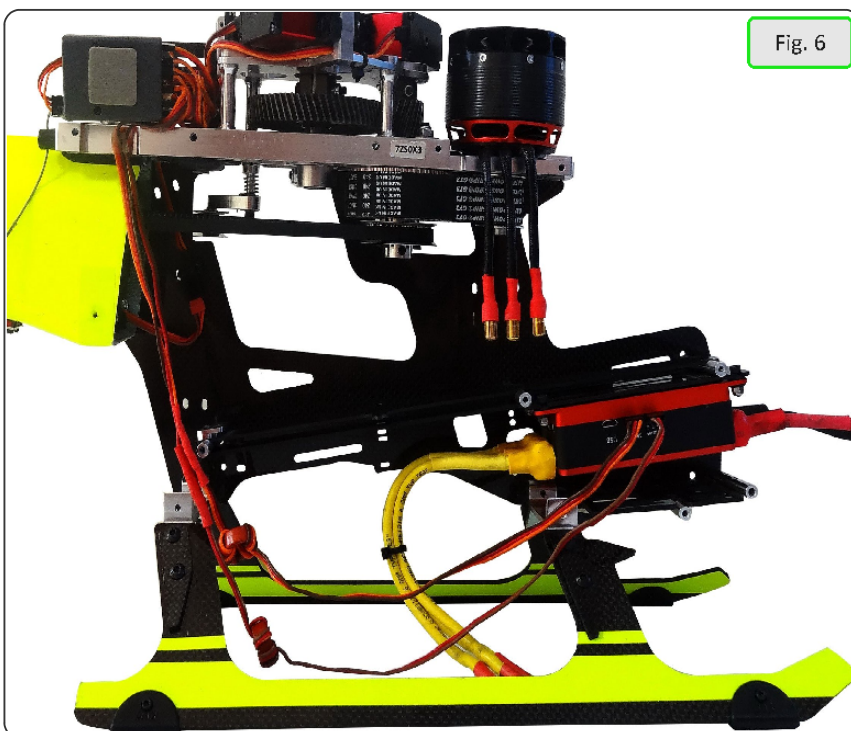


Figure 6: Shows the wiring which connects the receiver and ESC (in this picture one frame has been removed).
 If the BEC used is combined with the ESC, it is recommended to use a dual wire connection.

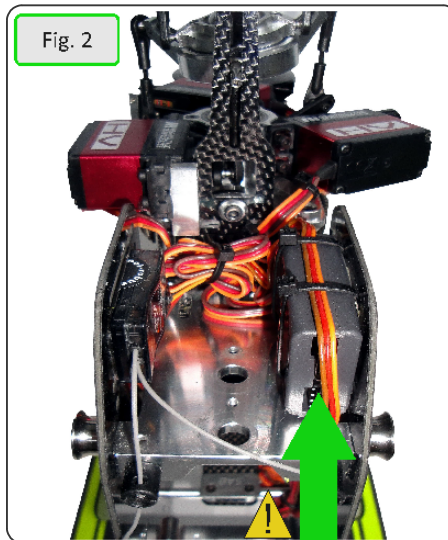
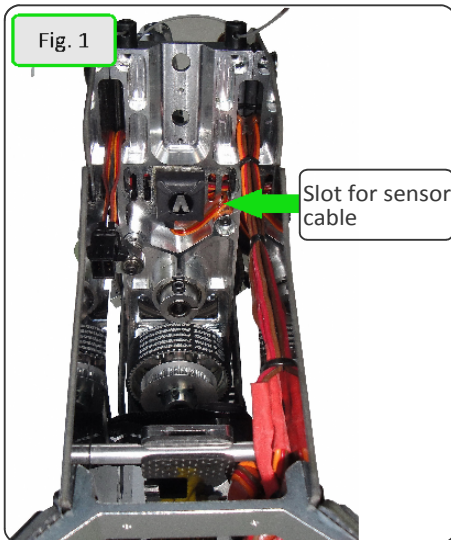
Figure 7: The passage of the controller wires to the motor is highlighted.

Figure 8: Shows the installation of a 2S battery for the flight control system.
 Alternatively, a BEC could be placed in the same area.

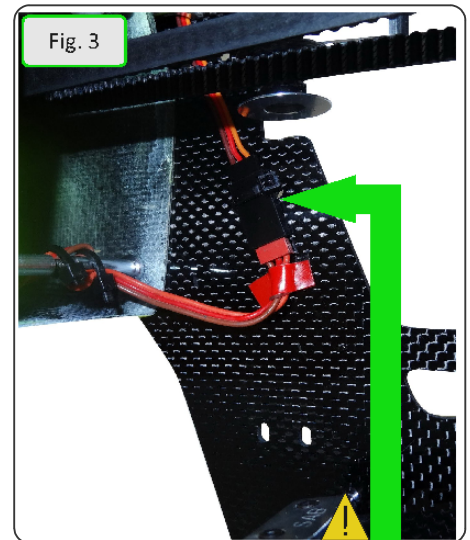


FLYBARLESS CONTROL UNIT AND RX INSTALLATION

It is possible to install any commercially available Flybarless control unit in the goblin. For Flybarless systems with a separate sensor, the sensor must be installed under the plate (Figure 1). Figure 2 shows an example of installation of the receiver and flybarless control unit. In Figure 3 you can see the extension lead for the tail servo. It is very important to include a connector for fast disassembly of the boom module. The connector will prevent servo damage in case of boom separation during a crash.



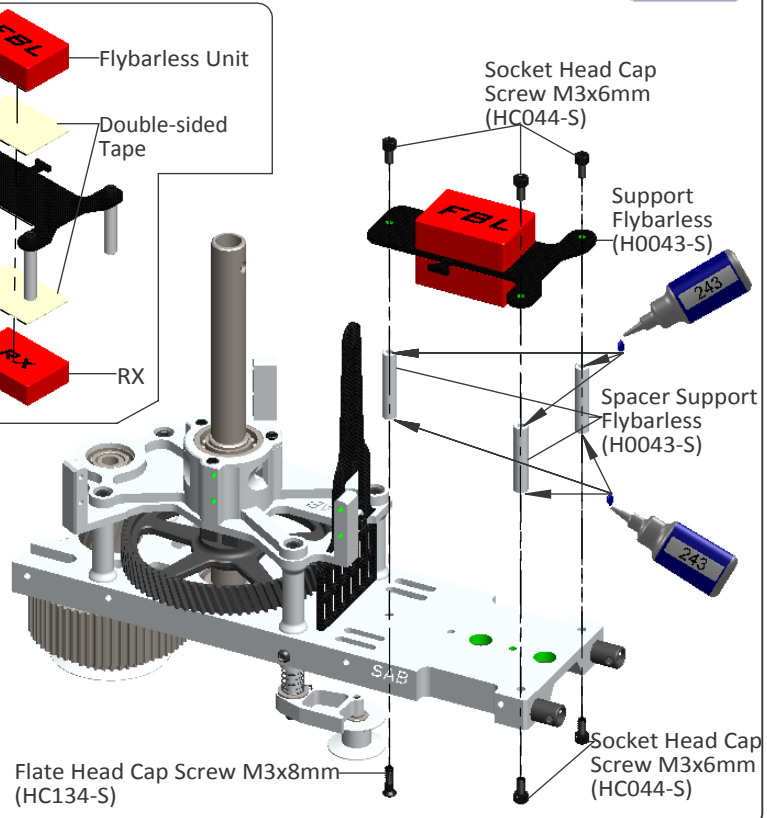
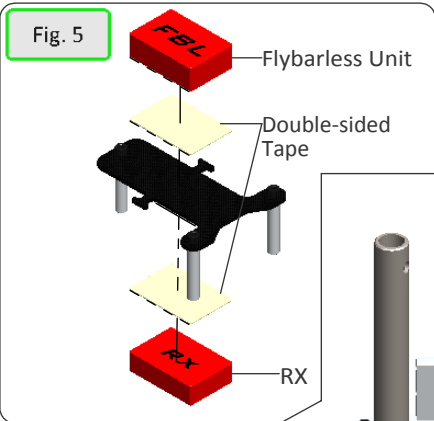
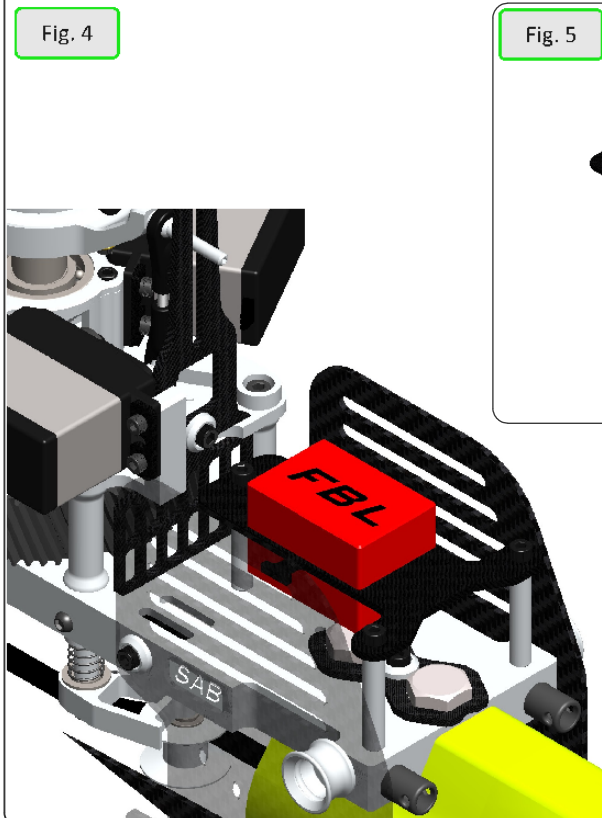
It is important to lock the plugs of the flybarless unit with an adhesive - for example hot glue.



Tail servo extension cable

To install a one piece Flybarless system it is necessary to add the support shown in these figures. Figure 3 shows the installed support. Figure 4 shows the control unit and the receiver installed on the support.

Bag 18





TRANSMISSION SETUP

It is important to choose the right reduction ratio to maximize efficiency based on your required flight performance. The Goblin has many possible reduction ratios at your disposal. It is possible to optimize any motor and battery combination. 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 770 COMPETITION CONFIGURATION

Rev:01

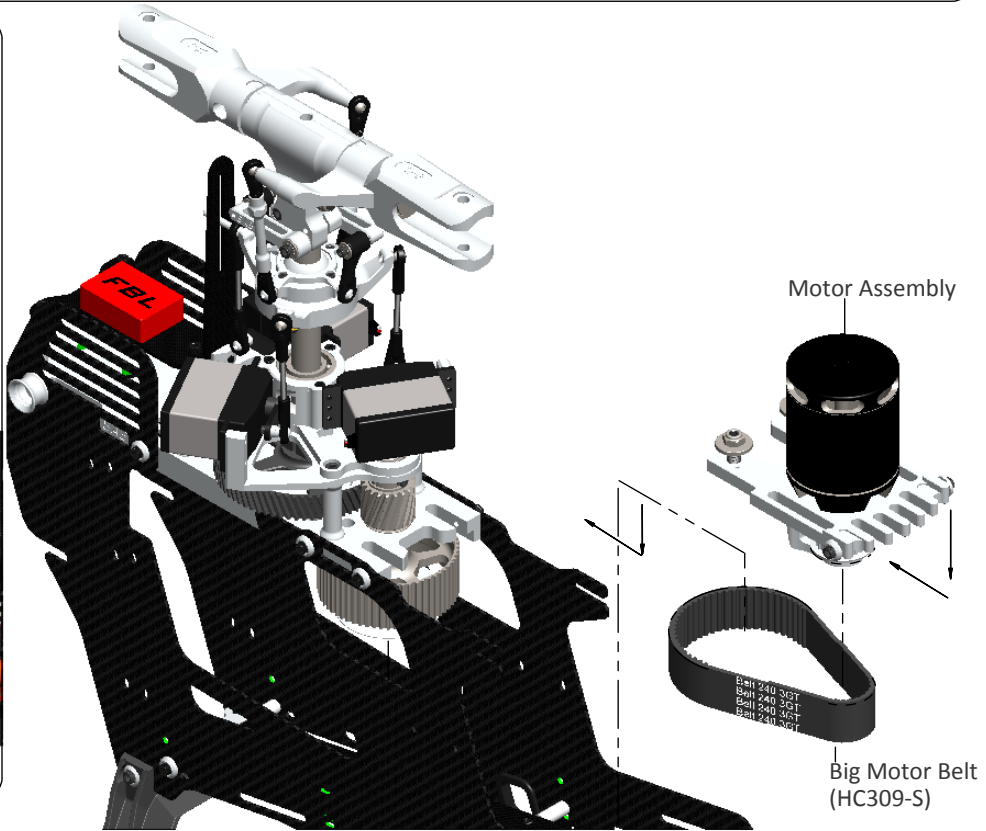
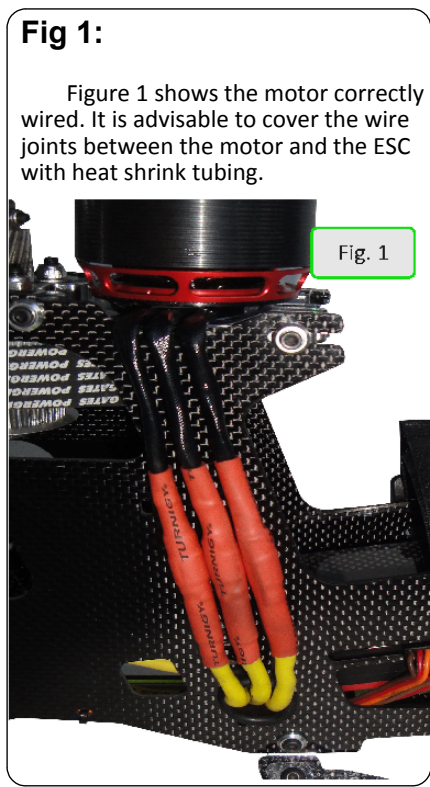
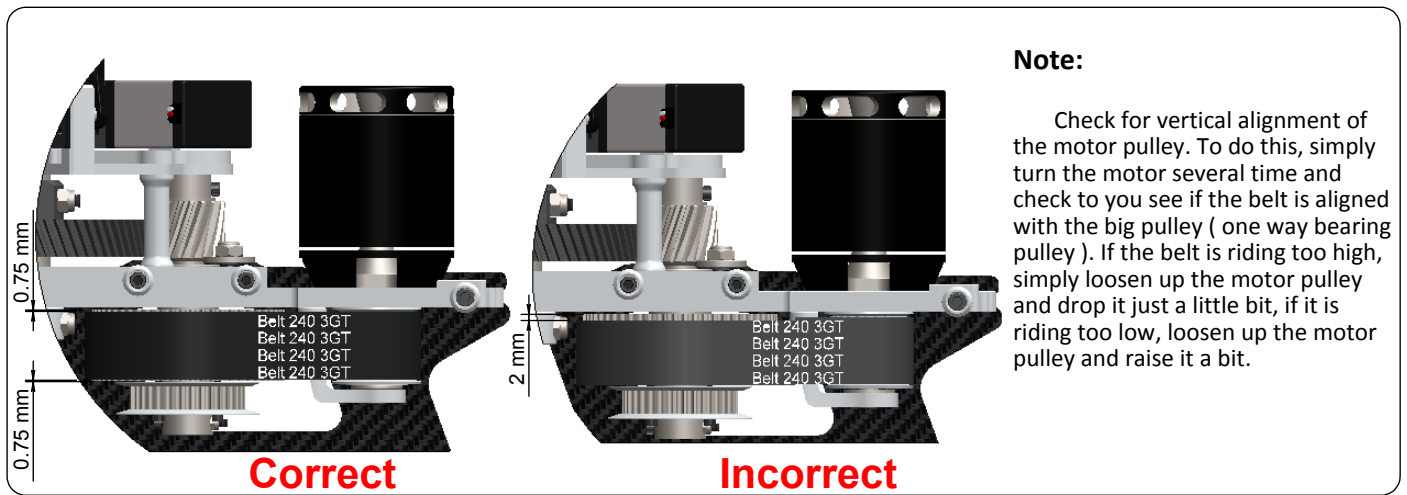
| Performace | Battery | Motor | ESC | Pinion | RPM Max (Gov) | Pitch |
|----------------------|------------------|--|---|---------|---------------|--------|
| GENERAL | 12S 5000/5500 | Kontronik Pyro 800-480 | Edge 160 HV | 22T | 1950 | ± 12,5 |
| | | | Jive 120 HV YGE 160 HV KOSMIK 160/200 | 21T | 1950 | ± 12,5 |
| | | Quantum 4530-500 Scorpion HK 4530-500 | Edge 160 HV | 21T | 1950 | ± 12,5 |
| | | | Jive 120 HV YGE 160 HV KOSMIK 160/200 | 20T | 1950 | ± 12,5 |
| | | Scorpion HK 4525-520 | Edge 160 HV | 20T | 1950 | ± 12,5 |
| | | | Jive 120 HV YGE 160 HV KOSMIK 160/200 | 19T | 1950 | ± 12,5 |
| GENERAL and 3D | 14S 5000 mAh | Kontronik Pyro 850-40L | YGE 160 HV KOSMIK 160/200 | 22T/23T | 2000/2100 ⚠ | ± 12,5 |
| | | Quantum 4530-450 Scorpion HK 4530-450 | YGE 160 HV KOSMIK 160/200 | 20T/21T | 2000/2100 ⚠ | ± 12,5 |
| | | Kontronik Pyro 800-48 | YGE 160 HV KOSMIK 160/200 | 19T/20T | 2000/2100 ⚠ | ± 12,5 |

Note: Although the Goblin can fly at high rpm, for safety reasons we suggest to not exceed 2000 rpm.



MOTOR BELT TENSION

- *Assemble the motor and pinion to its mounting plate.
- *Fit the motor assembly into position.
- *Compress the springs by pushing the motor toward the main shaft.
- *At maximum compression, temporarily tighten one of the slide screws.
- *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.
- *Release the screw that locks the slide.
- *The springs keep the belt in tension.
- *Help the springs by pulling the motor slightly.
- ***The belt must be very tight.**
- *Lock all screws.

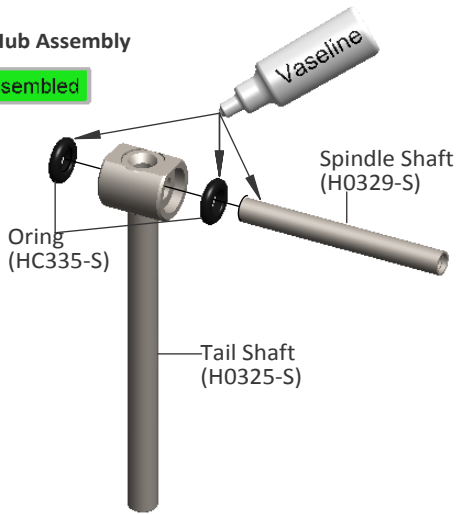




Bag 10, Tray 2

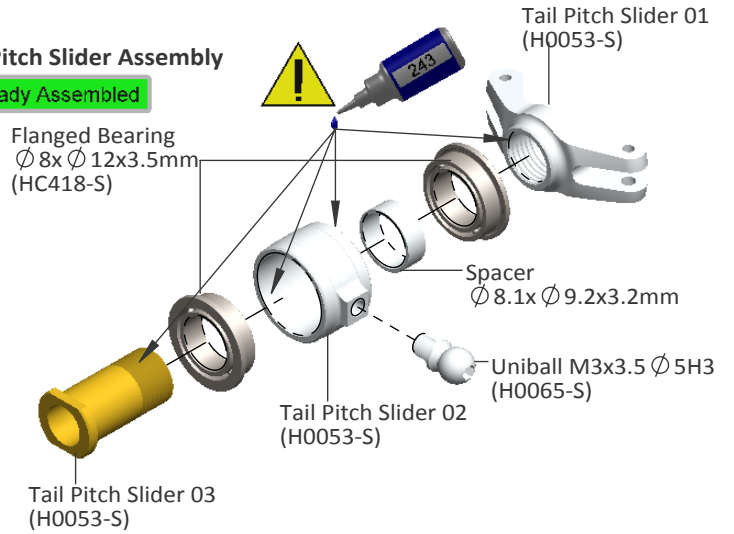
Tail Rotor Hub Assembly

Already Assembled

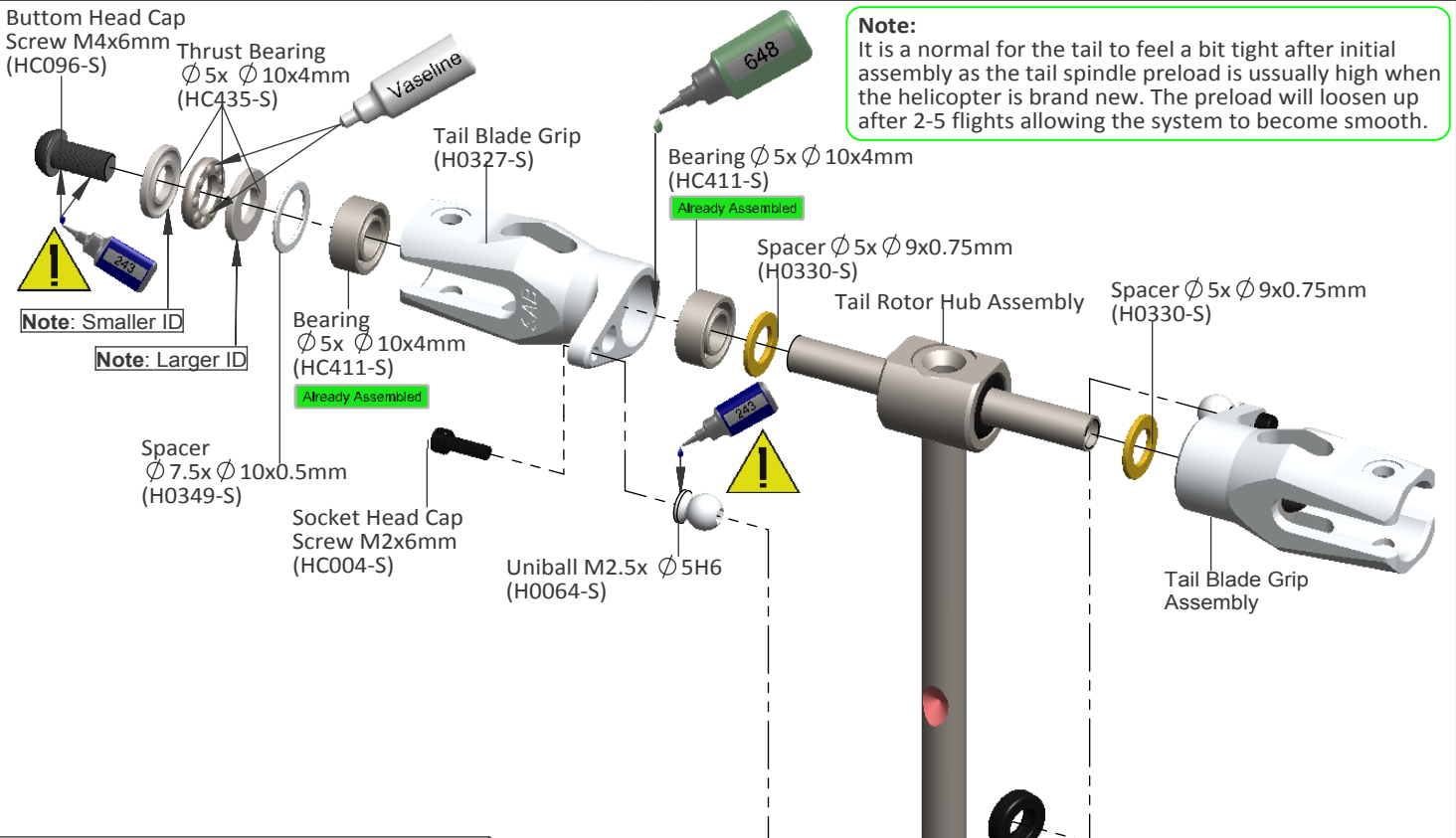


Tail Pitch Slider Assembly

Already Assembled



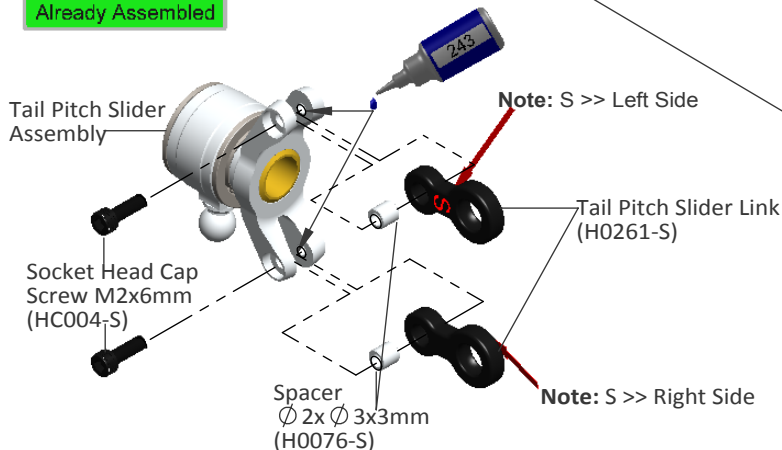
Bottom Head Cap Screw M4x6mm (HC096-S)



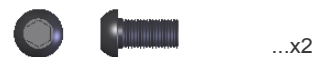
Note: It is normal for the tail to feel a bit tight after initial assembly as the tail spindle preload is usually high when the helicopter is brand new. The preload will loosen up after 2-5 flights allowing the system to become smooth.

Tail Pitch Slider Link Assembly

Already Assembled



Bottom Head Cap Screw M4x6mm



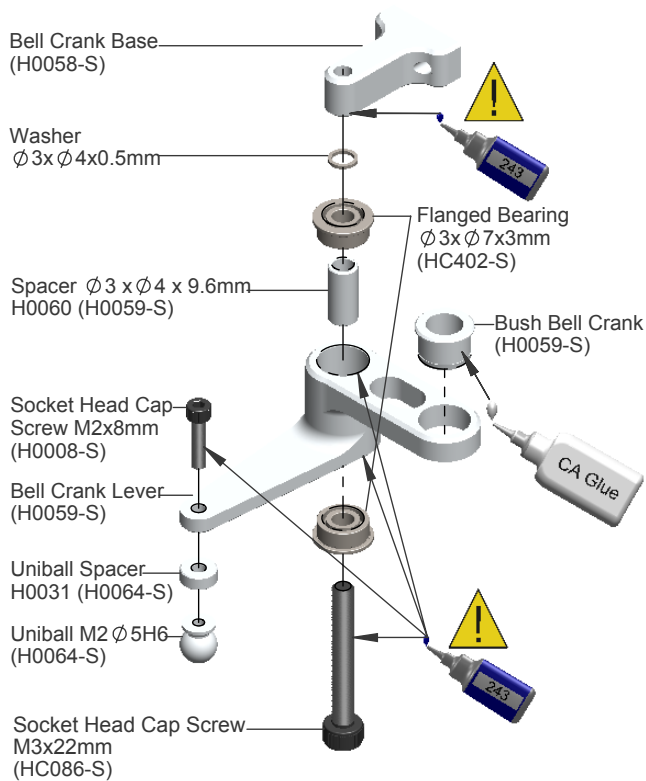
Socket Head Cap Screw M2x6mm





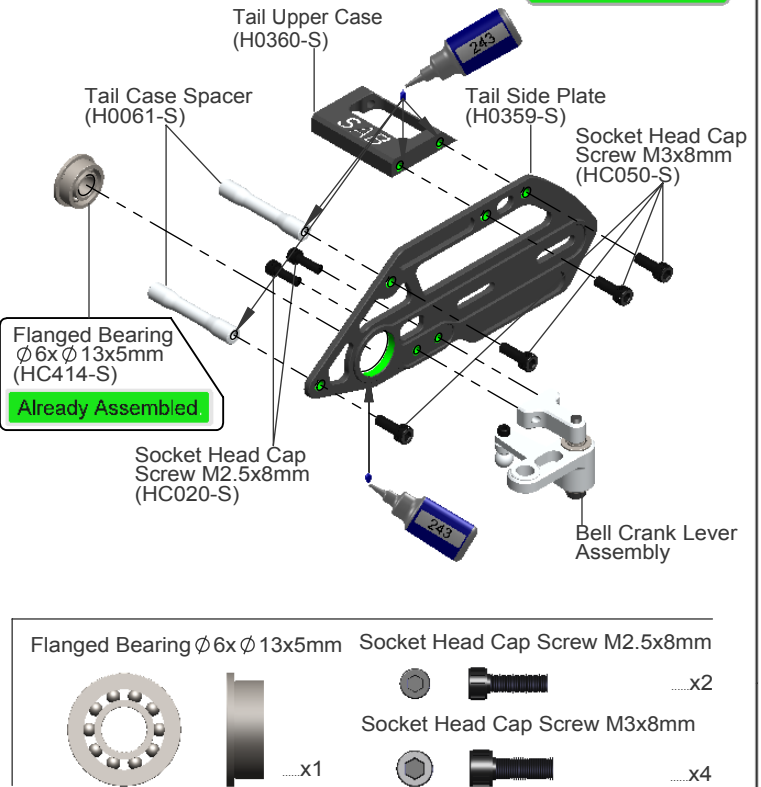
Bell Crank Lever Assembly

Bag 11, Tray 2



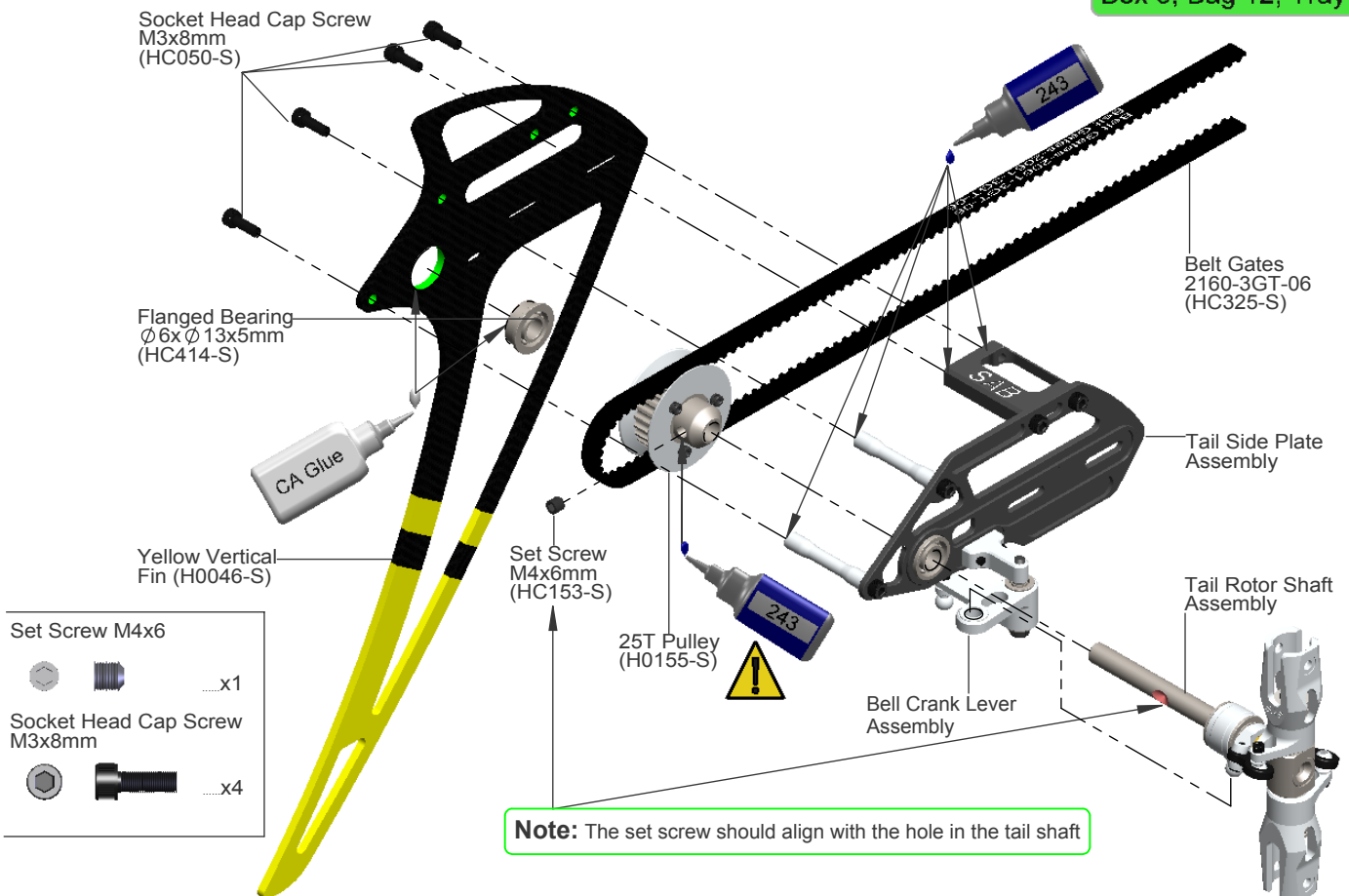
Tail Side Plate Assembly

Bag 12, Tray 2



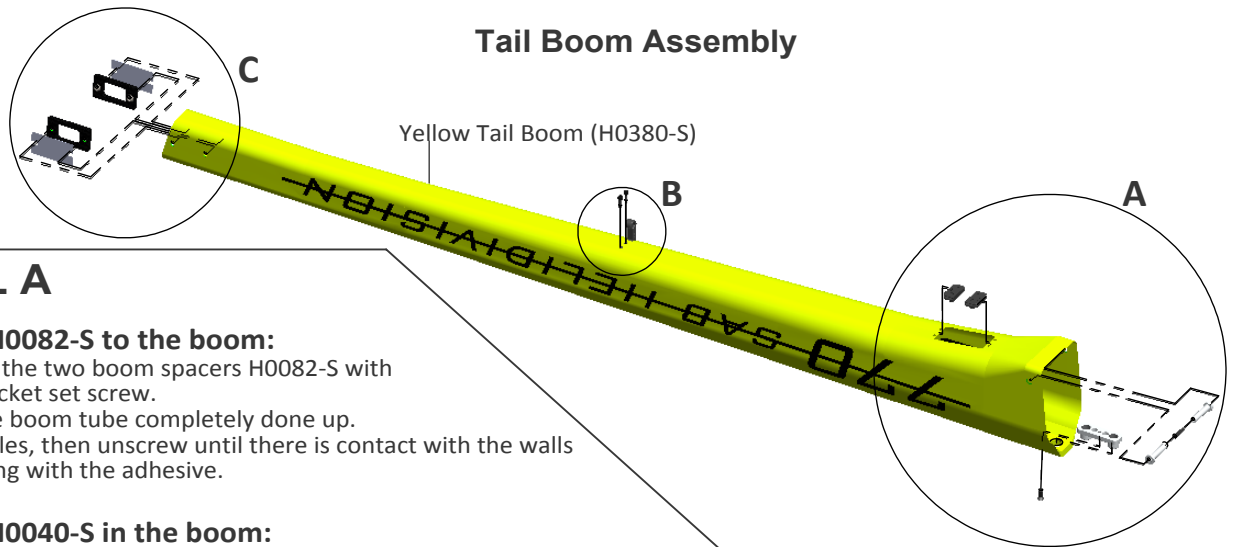
Tail System Assembly

Box 6, Bag 12, Tray 3





Tail Boom Assembly



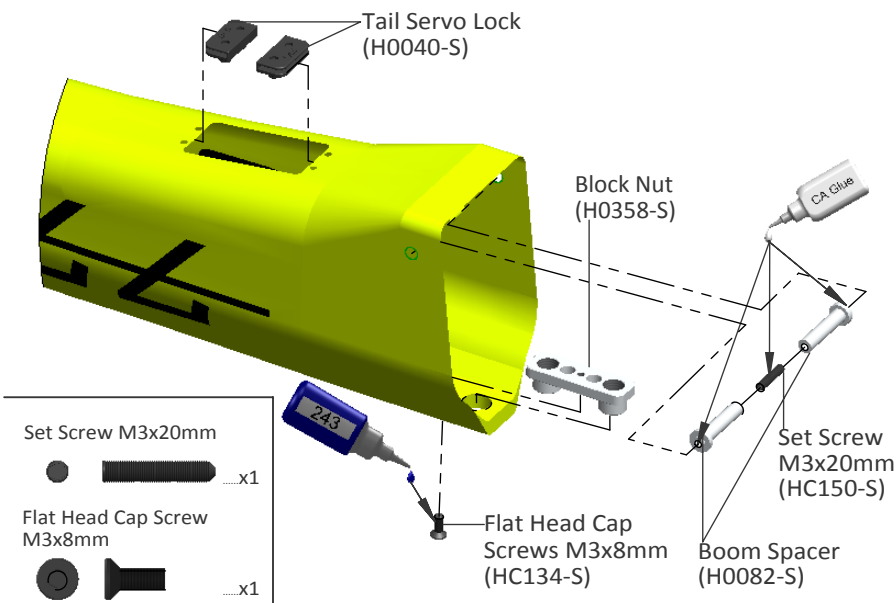
DETAIL A

Attaching H0082-S to the boom:

Pre-assemble the two boom spacers H0082-S with the M3x20 socket set screw. Insert into the boom tube completely done up. Center the holes, then unscrew until there is contact with the walls. Lock everything with the adhesive.

Assemble H0040-S in the boom:

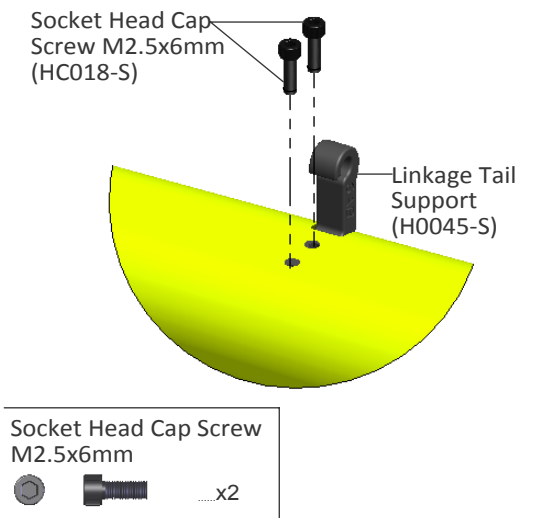
Before assembling the two parts in the boom we suggest tightening the M2.5 screws into the two plastic parts to pre-thread them. In this way when you will assemble the tail servo it will be easier to tighten the screws into the plastic parts. Check the tail servo can fit, if necessary carefully sand the hole.



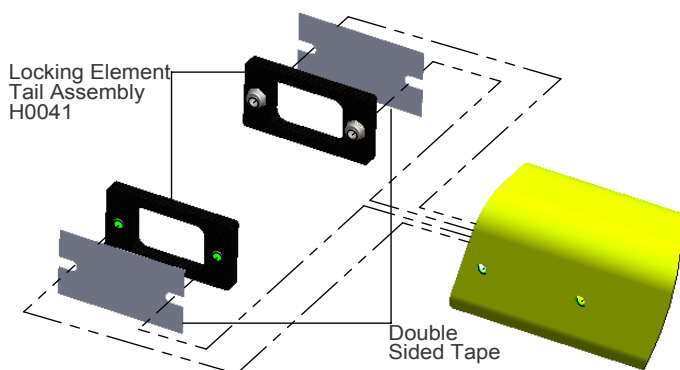
DETAIL B

Assemble H0045-S in the boom:

Before mounting H0045 on the boom we suggest to first tighten the M2.5 screws into the holes to thread them. In this way when you assemble the part it will be easier to tighten the screws.

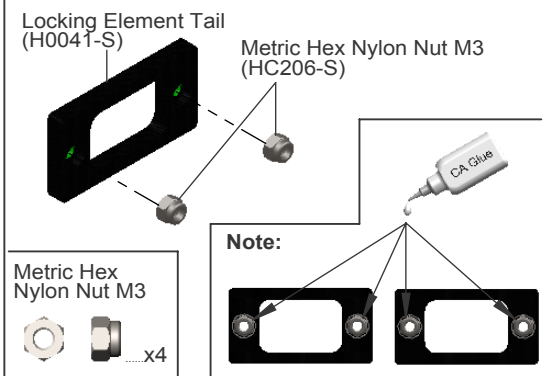


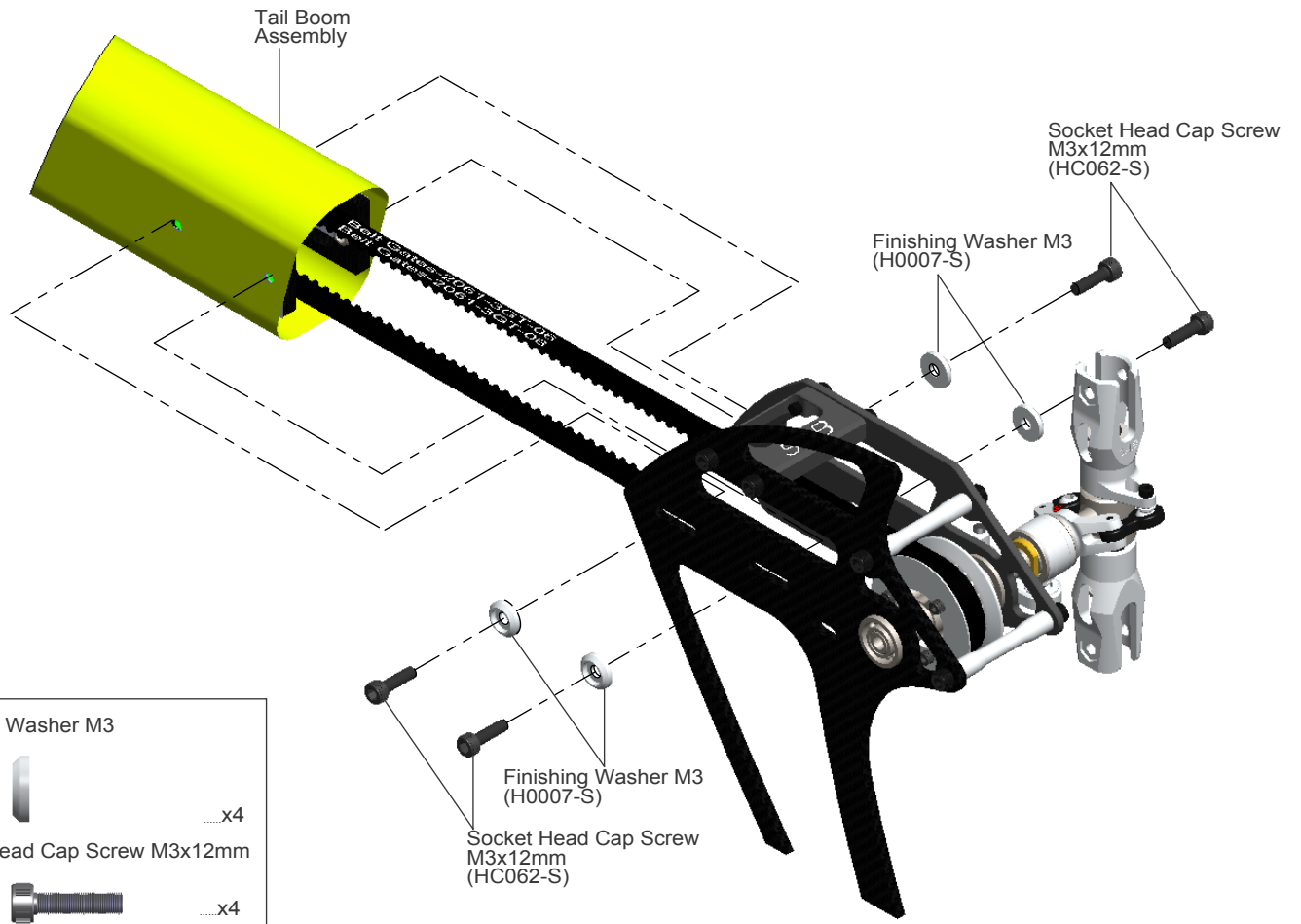
DETAIL C



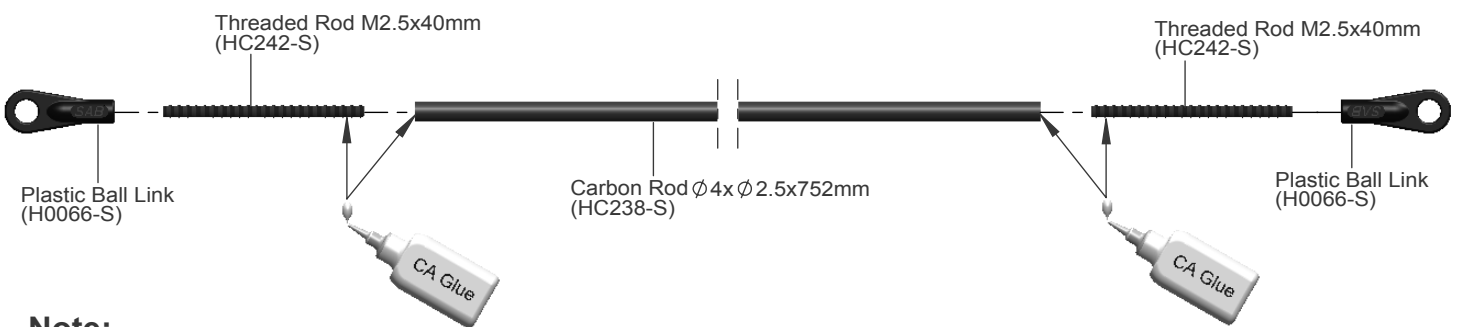
Locking Element Tail Assembly X 2

Already Assembled

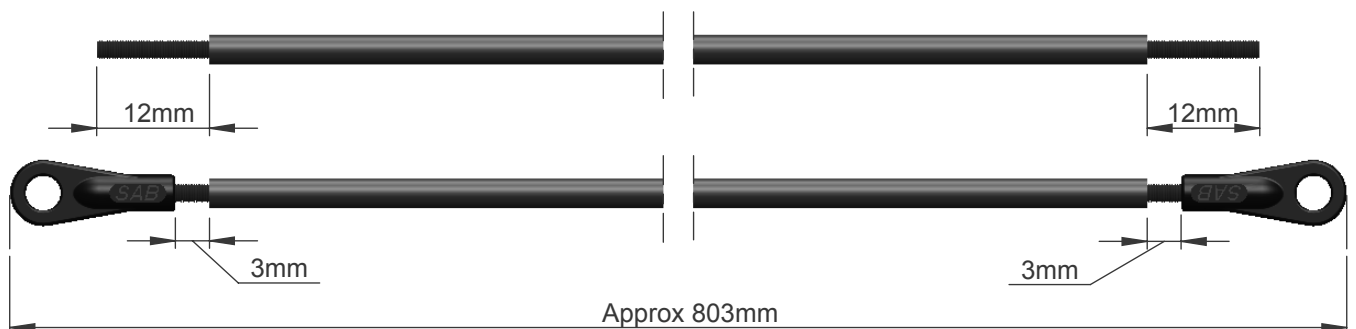


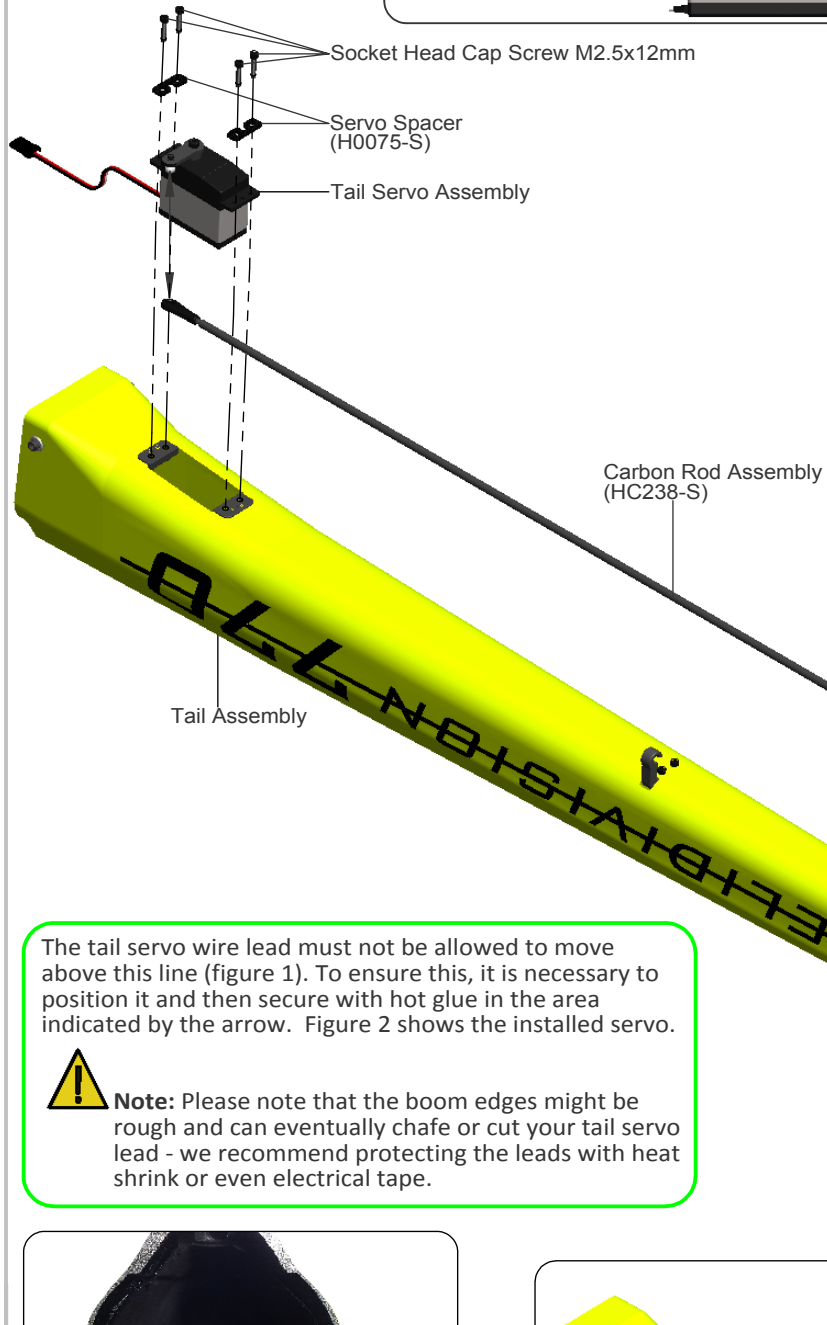
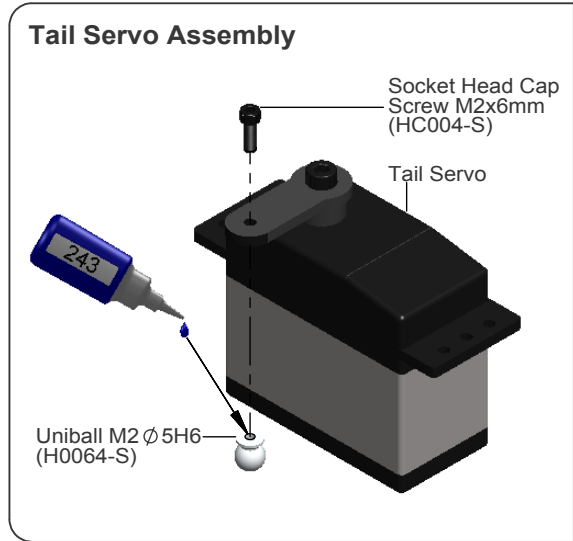
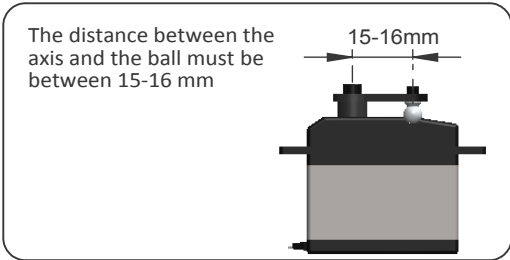


- Finishing Washer M3
-x4
- Socket Head Cap Screw M3x12mm
-x4



Note:

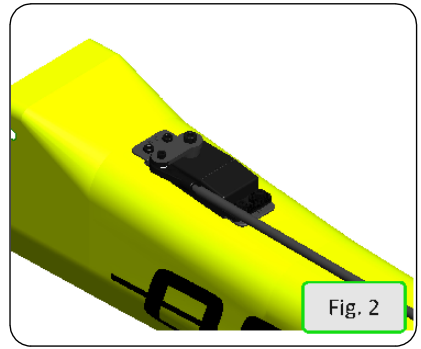
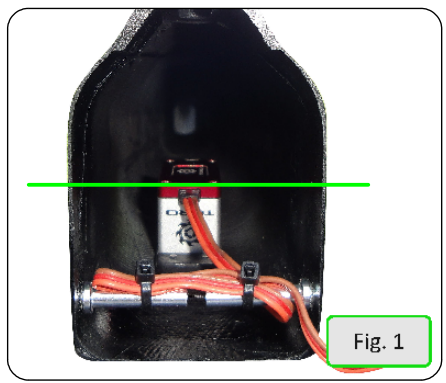




- Uniball M2 Ø5H6x1
- Socket Head Cap Screw M2x6mmx1
- Socket Head Cap Screw M2.5x12mmx4

The tail servo wire lead must not be allowed to move above this line (figure 1). To ensure this, it is necessary to position it and then secure with hot glue in the area indicated by the arrow. Figure 2 shows the installed servo.

! **Note:** Please note that the boom edges might be rough and can eventually chafe or cut your tail servo lead - we recommend protecting the leads with heat shrink or even electrical tape.



BOOM ASSEMBLY

- *Insert the tail boom assembly .
- *Lock the M8 nuts with the HA016 special tool supplied (Tray 2).
- *Firmly lock the lateral screws M3x12. Use Loctile for this screw and make sure you remain tight.
- *Assemble the H0038 carbon security plate .
- *Connect the tail servo wire to the previously fitted extension lead.

Socket Head Cap Screw M3x6mm

Finishing Washer M3

Socket Head Cap Screw M3x12mm

Nylon Screws M8x20mm

Socket Head Cap Screw M3x12mm (HC062-S)

Washer $\varnothing 3.1 \times \varnothing 12 \times 18\text{mm}$ (H0078-S)

Socket Head Cap Screw M3x12mm (HC062-S)

Fig. 1



Note: Between the boom and the aluminum plate, there is a space of around 0.75mm. Look the picture.

Fig. 2

Socket Head Cap Screw M3x6mm (HC044-S)

Finishing Washer M3 (H0007-S)

Safety Lock Tail Boom (H0038-S)

Nylon Screw M8x20mm (HC165-S)

Socket Head Cap Screw M3x12mm (HC062-S)

HA016

HC165

Fig. 3

Fig. 4

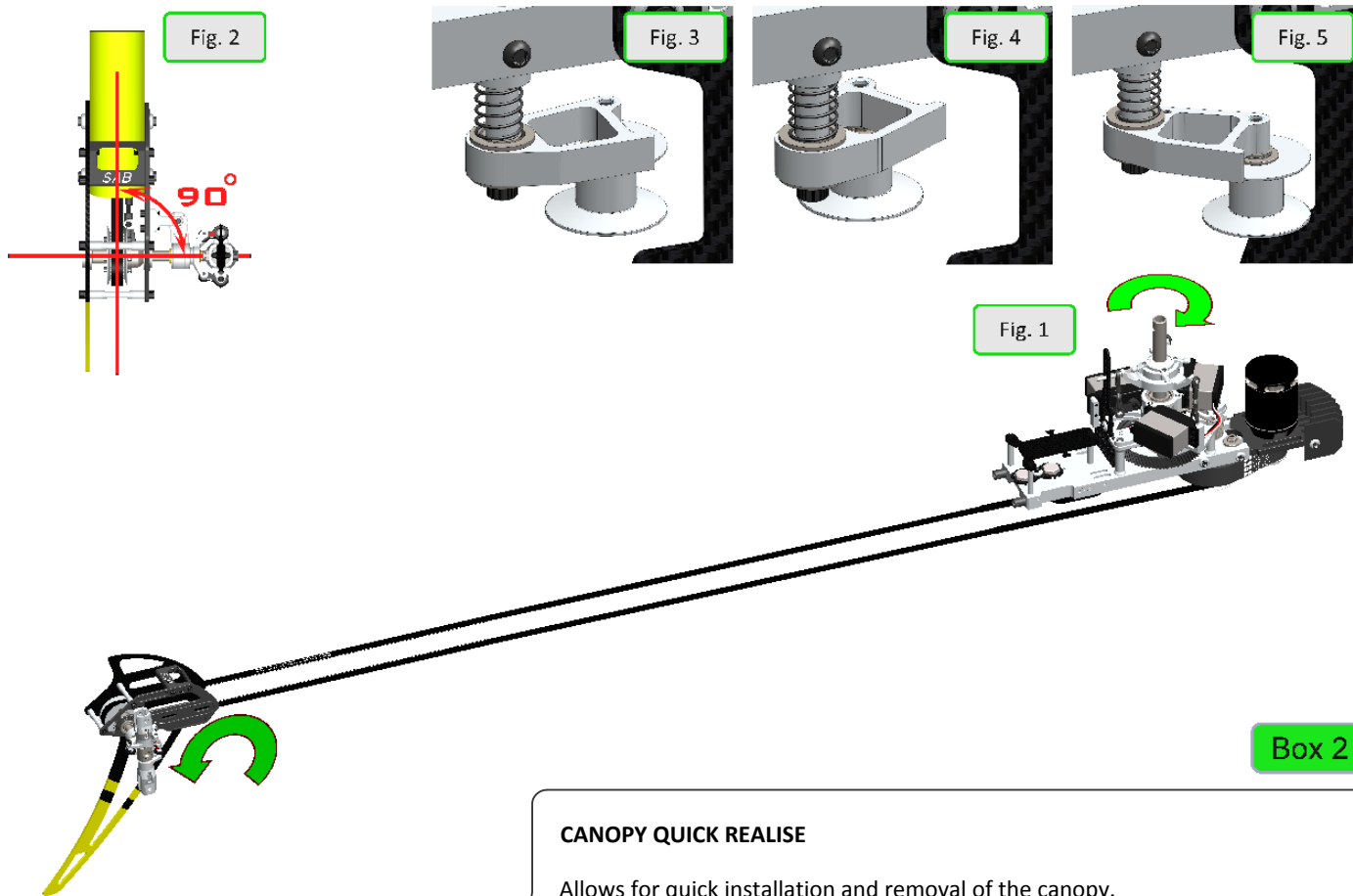
Fig. 5



TAIL BELT TENSION

- *Check the proper assembly of the tail boom.
- *Check that the aluminum part of the tube is against the M3 stop screw.
- *Loosen the tail group by loosening the 4 M3 screws.
- *Install the belt onto the pulley, taking care to respect the direction of rotation (**figure 1**).
- *Rotate the tail drive several times by hand.
- *Load the spring by a rotation of **270°** the tensioning arm (**clockwise**)
- *Tension the boom until the tensioning arm is aligned with the frame.
- *Tighten the 4 screws.
- *Check that the tail output shaft is perpendicular to the tube. (**figure 2**)
- *In **figure 3,4,5** you can see the three conditions, ok, too loose and too tight.

NOTE. To disassemble the tail boom it is possible to remove the pulley H0101-S without loosening the tail unit. Remove the locking screw and pull down.



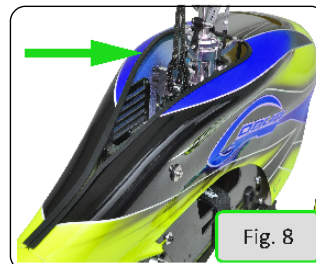
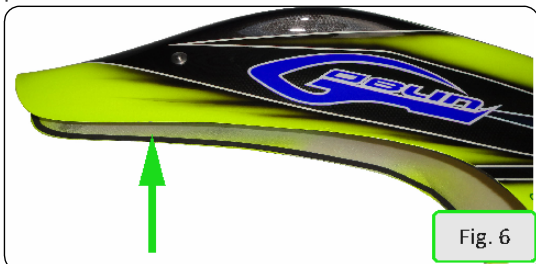
Box 2

CANOPY QUICK REALISE

Allows for quick installation and removal of the canopy.
 The canopy hole must be 12 to 12.5 mm in diameter.
 You can enlarge the hole slightly to optimize the vertical position of the canopy itself.
 Always ensure the proper installation and locking before each flight. The lock button must always come out to ensure locking.
 It is recommended to attempt removal by forcing the canopy slightly to ensure proper locking.

CANOPY

On the Goblin, the canopy touches the frame. To avoid triggering vibration, it is necessary to attach an adhesive foam tape to the canopy (**figure 6**). To lock the canopy saver, normal is possible to use a little bit of CA Glue

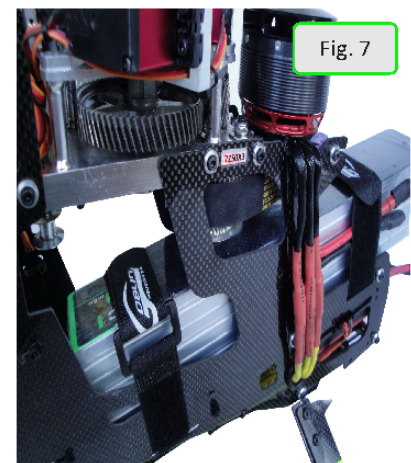
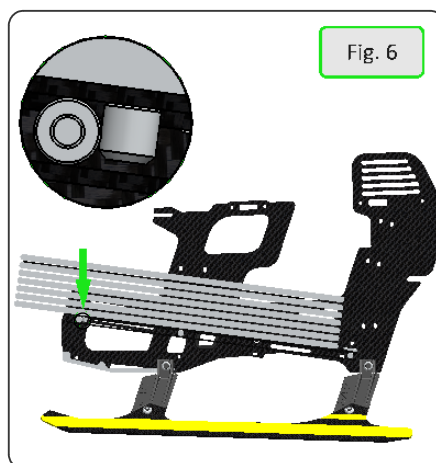
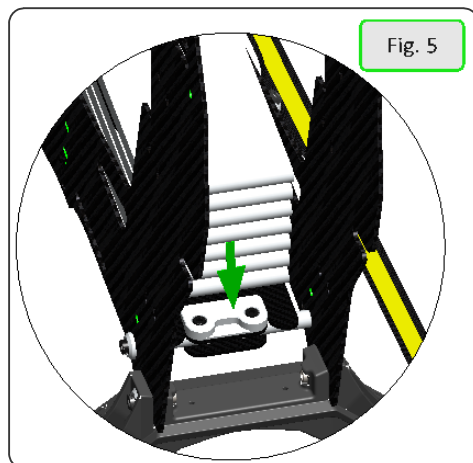
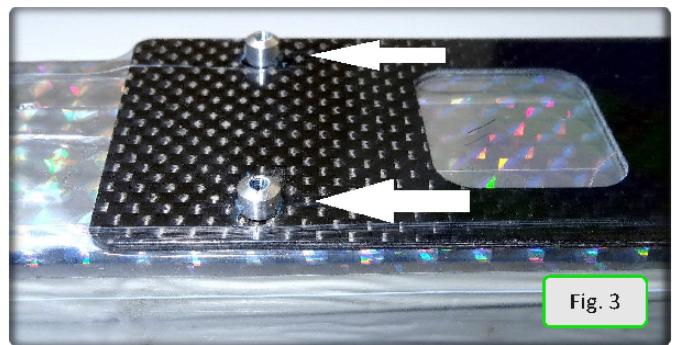
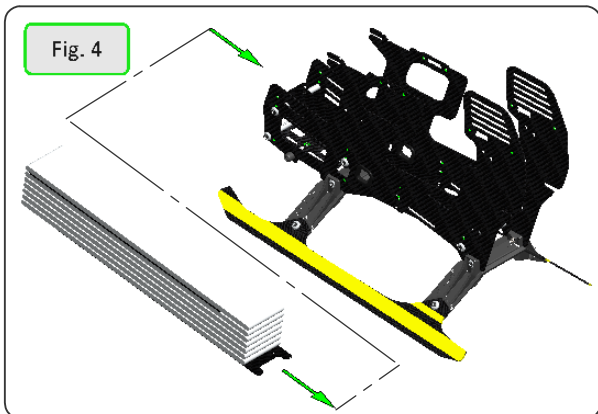
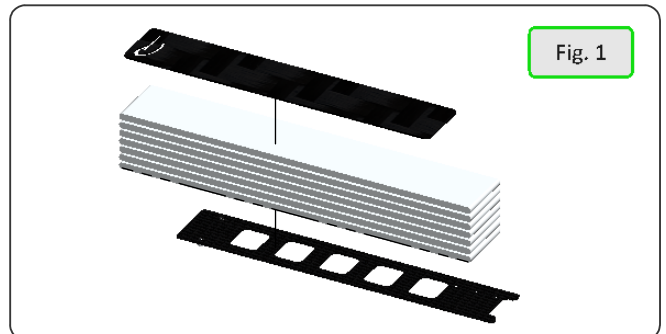
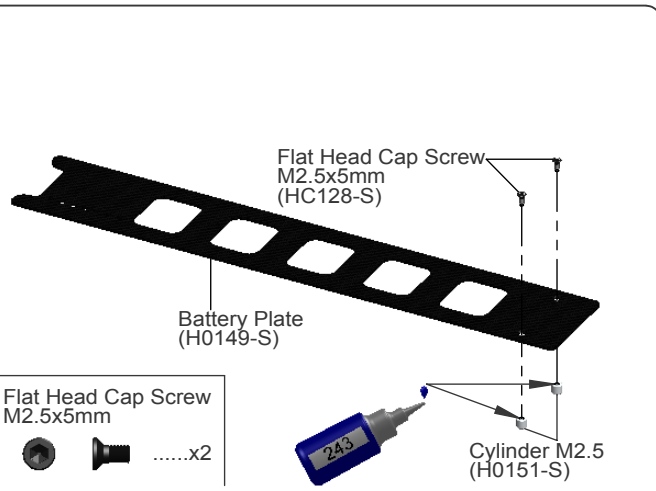


BATTERIES

The battery tray system in the Goblin 700 is simple, but very effective. The battery should be attached to the tray (Part **H0149**) with heat shrink, tape or velcro. You can optionally use the battery protection tray (Part **H0151**) see **Fig. 1, 2**. Before permanently mounting the batteries onto the battery tray, check the ideal position for the best center of gravity. Cut the heat shrink around the carbon fiber tray locking pins. **Fig. 3**.

Battery Pack:

Slide the tray until it locks into the CNC stopper. **Fig. 4, 5**. Using the velcro straps, making sure that the two locking pins are stopped against the frame spacer (Part1#**H0003** and #**H0151**) **Fig.6, 7**.





! SERIAL NUMBER

In Bag 21, I will find the serial number tag for your Helicopter

Sticking the tag as show. Please remember to register your product. (See page 1)

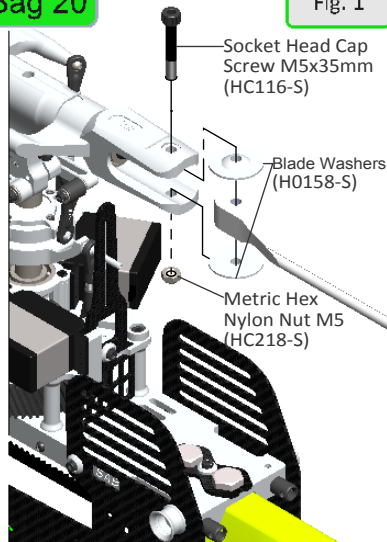


OPERATIONS BEFORE FLIGHT

- *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.
- ! *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. Although the Goblin can fly at high rpm, for safety reasons we suggest to not exceed 2000 rpm.
- *Check the correct tension of the tail belt through the belt tensioner.
- *Fit the main blades and tail blades. (Fig.1 and Fig.2)
- *Please make sure the main blades are tight on the blade grips, you should be able to violently jerk the head in both directions and the blades should not fold. Failure to tighten the blades properly can result in a boom strike. To fold the blades for storage, it is advisable to loosen them.
- *Check the collective and cyclic pitch. For 3D flight, set about +/- 12°-13°.
- *It is important to check the correct tracking of the main blades.
- *On the Goblin, in order to correct the tracking, adjust the main link rod as shown in figure 3. This is provided with a right/left thread system that allows continuous fine adjustments of the length of the control rod; for this adjustment it is not necessary to detach the ball link.
- ! *Perform the first flight at a low headspeed, 1500/1600 RPM. After this first flight, do a general check of the helicopter. Verify that all screws are correctly tightened.

Bag 20

Fig. 1



Bag 20

Fig. 2

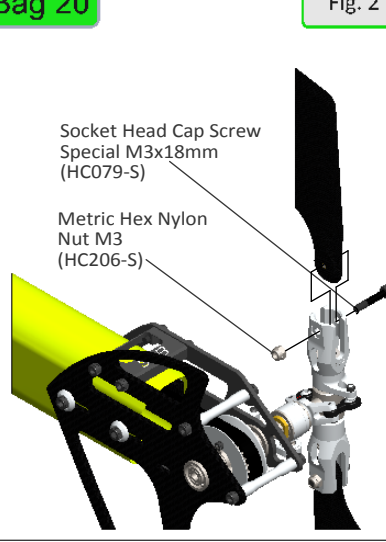
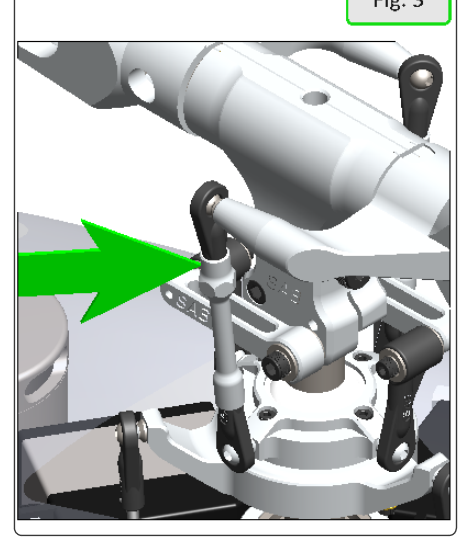


Fig. 3



IN FLIGHT

During its first flights the Goblin has to be "run in".

The Damper, the main gear, the uniball and other parts must undergo some slight wear to operate smoothly. It is likely that during the very first flights the model may exhibit a swaying phenomena, particularly at low head speed. This phenomena disappears after a few flights.

If you want to fly in a generic way, using both low headspeed and high headspeed, the standard setting is the best compromise.

However, if you prefer flying at low speed [< 1900 rpm], for best results we recommend changing the tail pulley for a smaller one to increase tail rotor rpm. In this way, you will have extremely precise tail control even at low RPM. This pulley is available in the upgrade list [H0154-S]



HPS HEAD

- The dampening system of this head allows for a wide range of head speeds to be used without sacrificing safety.
- The dampers are composed of an o-ring and a technopolymer damper that defines the maximum possible movement of the spindle.
- The model response with change based on the preload, less preload (less shims) will allow for a softer feel and lower head speed, a high preload is used for hard 3D flight.
- To increase the preload, you can add an additional 0.2mm shim on each side, to decrease the preload, you can remove a 0.2mm shim on each side. It is important that the blade grips do not have the axial play so you must always keep the 1mm shim on each side regardless.

MAINTENANCE

*On the Goblin, 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 average it is recommended to replace these special parts every **100** flights.

*The 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. All other parts are not particularly subject to wear.

*Periodically lubricate the tail slide movement and its linkages as well as the swashplate movement and its linkages.

*Lubricate the main gear with Tri-Flow Synthetic grease every 20 flights.

*Check the screws that are highlighted in the following images frequently, make sure you remain tight (**fig.2** and **fig.3**).

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

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

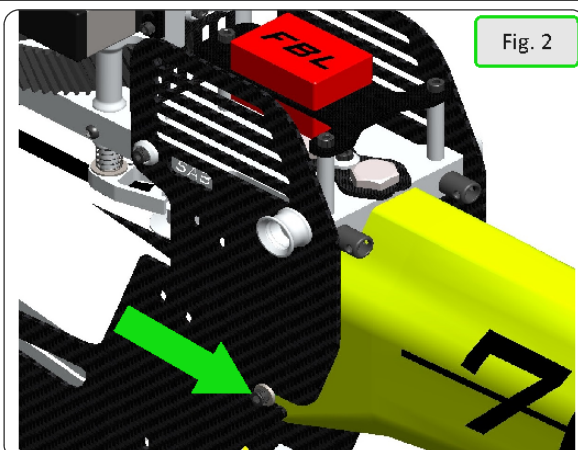


Fig. 2

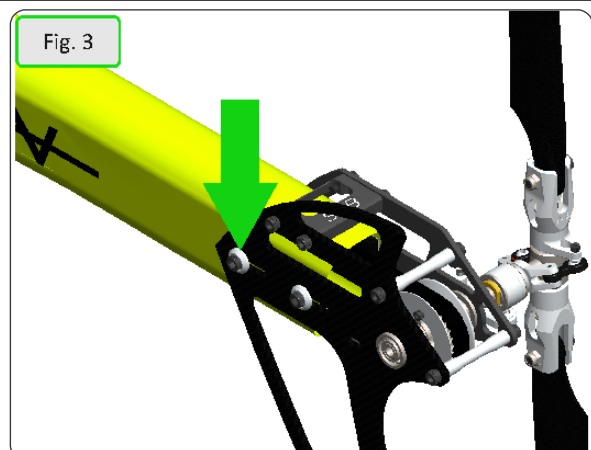
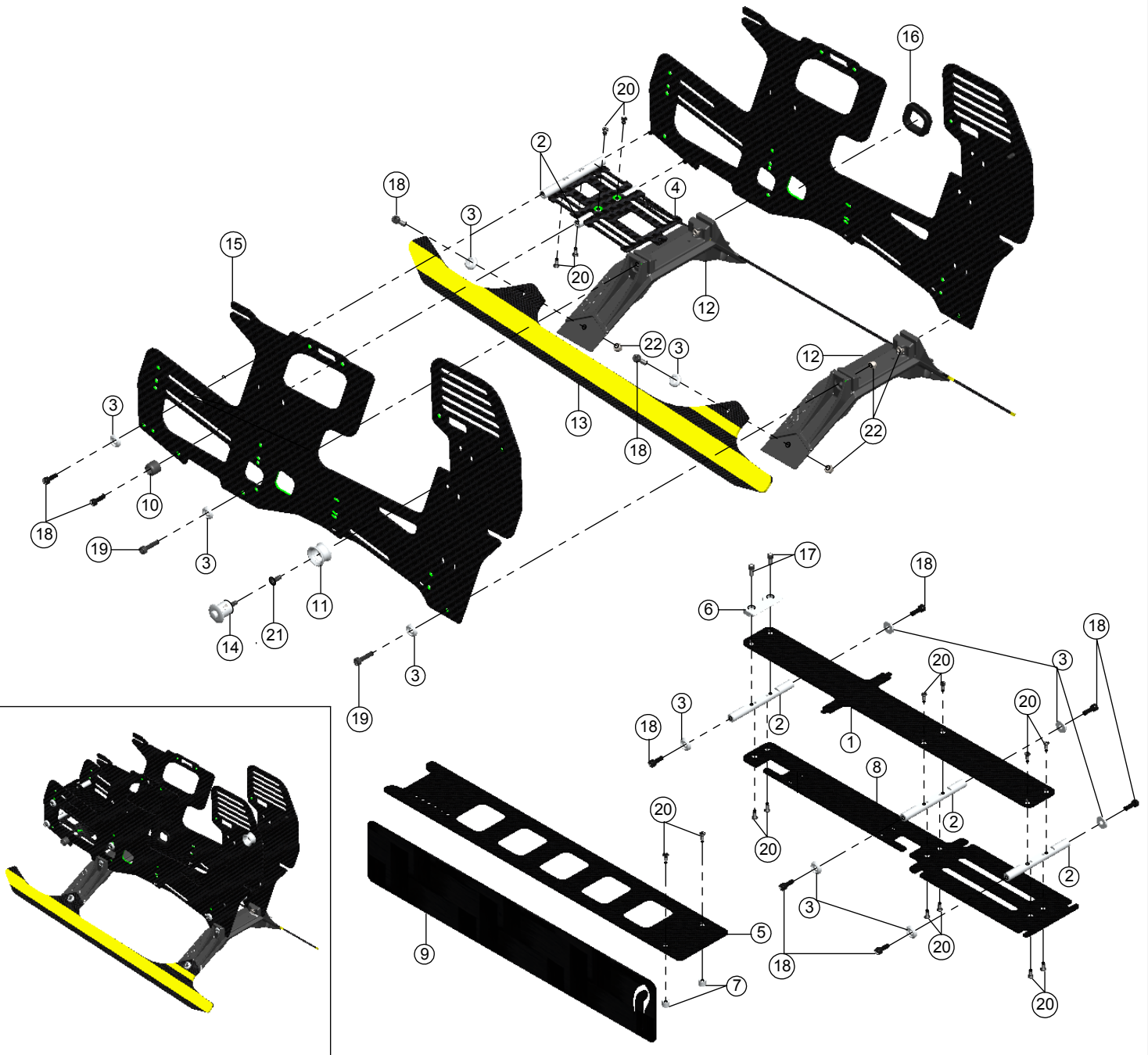
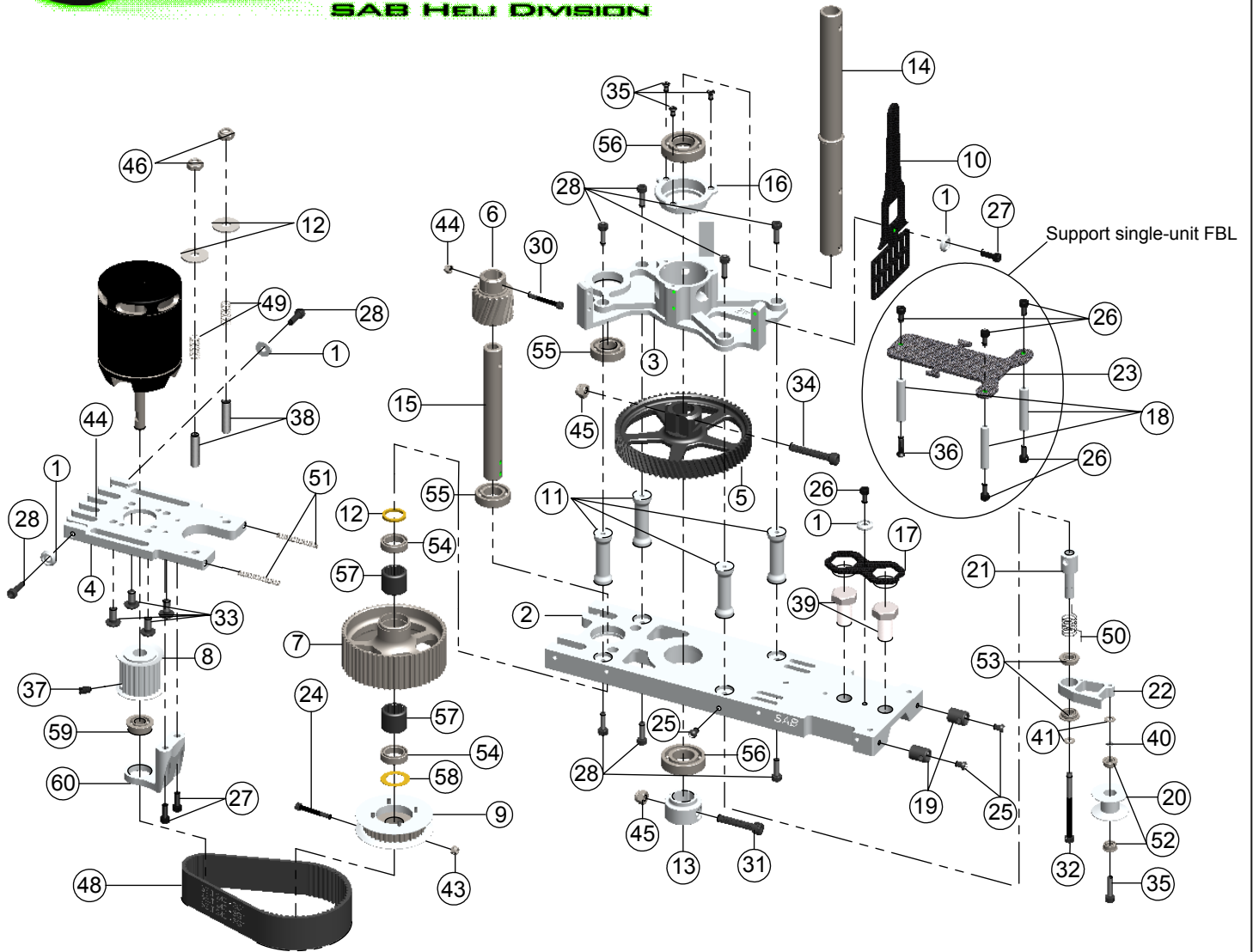


Fig. 3



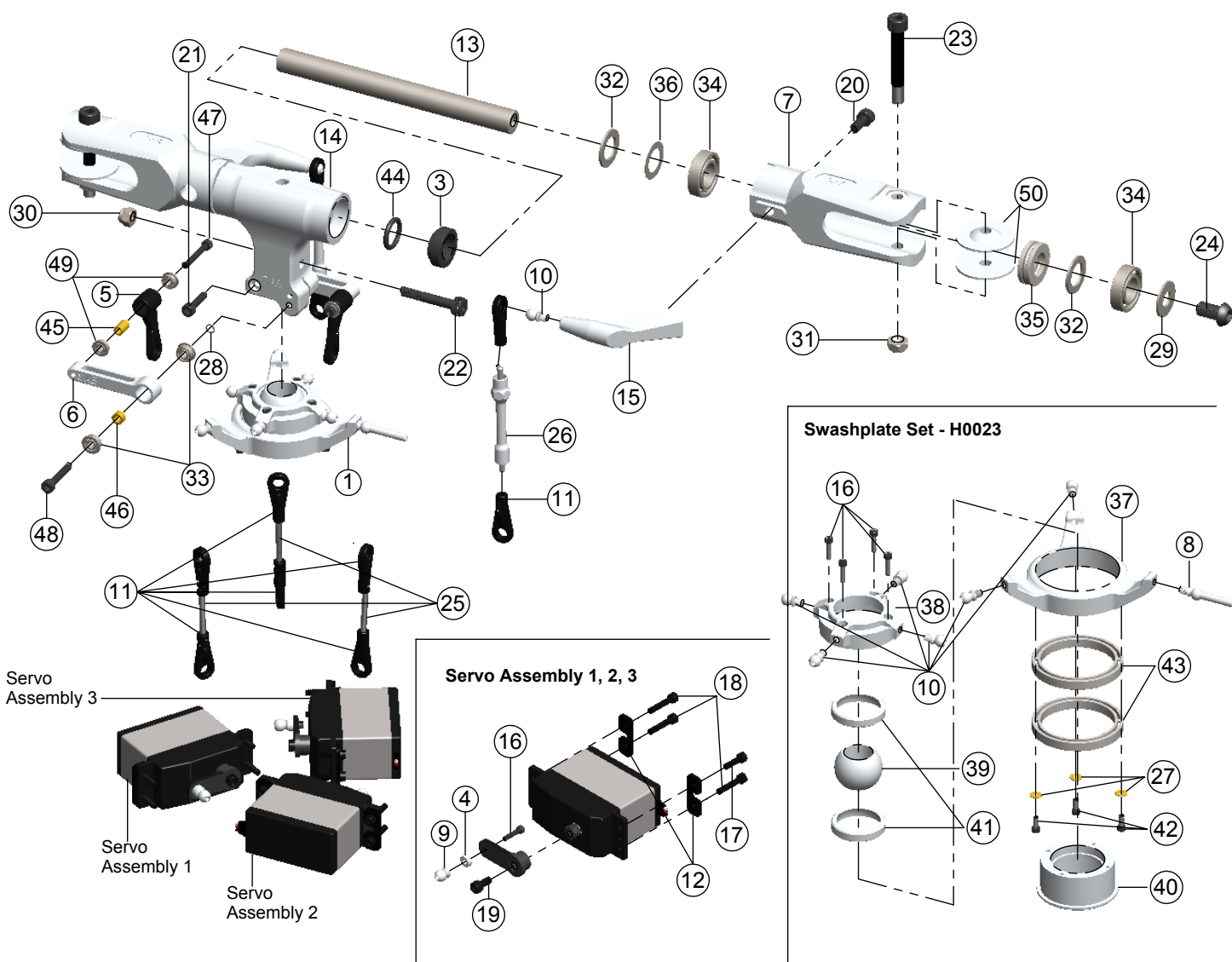
| Main Frame | | | | |
|------------|-------|----------------------|---------------|----------|
| POS | COD | Name | Specification | Quantity |
| 1 | H0002 | Battery Tray | Carbon Fiber | 1 |
| 2 | H0003 | Frame Spacers | Aluminum | 5 |
| 3 | H0007 | Finishing Washers M3 | Aluminum | 16 |
| 4 | H0088 | ESC Support | Carbon Fiber | 1 |
| 5 | H0149 | Battery Plate | Carbon Fiber | 1 |
| 6 | H0150 | Stop Battery Plate | Aluminum | 1 |
| 7 | H0151 | Cylinder M2.5 | Aluminum | 2 |
| 8 | H0153 | Battery Support | Carbon Fiber | 1 |
| 9 | H0155 | Battery Protection | Carbon Fiber | 1 |
| 10 | H0157 | Canopy Positioners | Plastics | 2 |
| 11 | H0319 | Canopy Poitioner | Aluminum | 2 |

| Main Frame | | | | |
|------------|-------|-------------------------|-------------------|----------|
| POS | COD | Name | Specification | Quantity |
| 12 | H0345 | Landing Gear Support | Plastic | 2 |
| 13 | H0344 | Yellow Landing Gear | Carbon Fiber | 2 |
| 14 | H0804 | Canopy Quick Realise | Assembly | 2 |
| 15 | H0354 | Main Frames | Carbon Fiber | 2 |
| 16 | HA010 | Cable Pass | Ø 16 x Ø 24 x 2mm | 1 |
| 17 | HC020 | Socket Head Cap Screws | M2.5X8mm | 2 |
| 18 | HC056 | Socket Head Cap Screws | M3 x 10mm | 14 |
| 19 | HC062 | Socket Head Cap Screws | M3X12mm | 8 |
| 20 | HC128 | Flat Head Cap Screws | M2.5 x 5mm | 16 |
| 21 | HC134 | Flat Head Cap Screws | M2.5 x 8mm | 2 |
| 22 | HC206 | Metric Hex Nylon Nut M3 | | 8 |



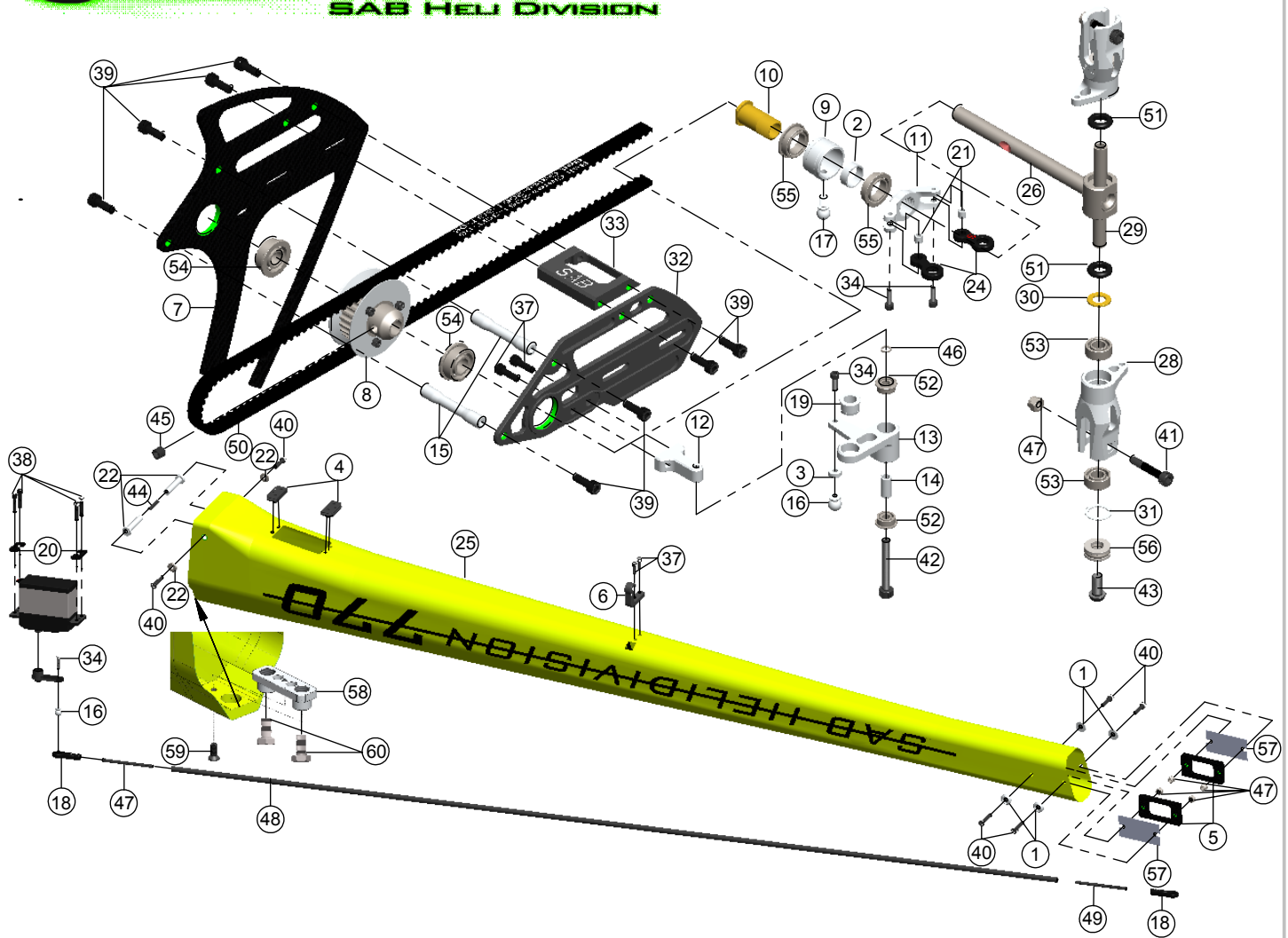
| TRANSMISSION ASSEMBLY | | | | |
|-----------------------|----------|------------------------------------|-------------------|----------|
| POS | COD | Name | Specification | Quantity |
| 1 | H0007 | Finishing Washers M3 | Aluminum | 4 |
| 2 | H0009 | Main Structure | Aluminum | 1 |
| 3 | H0010 | Servo Support | Aluminum | 1 |
| 4 | H0143 | Motor Support | Aluminum | 1 |
| 5 | H0320 | Main Gear | 68T M1 | 1 |
| 6 | H0361 | Drive Pinion | 19T M1 | 1 |
| 7 | H0171 | One Way Double Bearing | 60T | 1 |
| 8 | H0175-20 | Motor Pulley 20mm | 20T | 1 |
| 9 | H0172 | Front Tail Pulley Low | 37T | 1 |
| 10 | H0152 | Swash plate Anti-Rotation Guide | Carbon Fiber | 1 |
| 11 | H0018 | Columns | Aluminum | 4 |
| 12 | H0110 | Bush-One Ways | Ø10 x Ø13 x 1.4mm | 2 |
| 13 | H0121 | M4 Locking Collar | | 1 |
| 14 | H0127 | Main Shaft | | 1 |
| 15 | H0157 | Secondary Shaft | | 1 |
| 16 | H0024 | Main Shaft Bearing Support | | 1 |
| 17 | H0038 | Safety Locking Tail Boom | Carbon Fiber | 1 |
| 18 | H0043 | Spacers Flybarless | | 3 |
| 19 | H0050 | Antenna Guide | Plastic | 2 |
| 20 | H0069 | Tail Belt Idler | | 1 |
| 21 | H0174 | Column Belt Tensioner | | 1 |
| 22 | H0071 | Belt Tensioner Arm | | 1 |
| 23 | H0077 | Flybarless Support | Carbon Fiber | 1 |
| 24 | HC033 | Socket Head Cap Screw Shoulderreds | M2.5 x 19mm | 1 |
| 25 | HC038 | Button Head Cap Screws | M3 x 4mm | 3 |
| 26 | HC044 | Socket Head Cap Screws | M3 x 6mm | 5 |
| 27 | HC050 | Socket Head Cap Screws | M3 x 8mm | 4 |
| 28 | HC056 | Socket Head Cap Screws | M3 x 10mm | 7 |
| 29 | HC062 | Socket Head Cap Screw | M3 x 12mm | 1 |
| 30 | HC079 | Socket Head Cap Screws | M3 x 18mm | 1 |

| TRANSMISSION ASSEMBLY | | | | |
|-----------------------|-------|----------------------------|-------------------|----------|
| POS | COD | Name | Specification | Quantity |
| 31 | HC104 | Socket Head Cap Screw | M4 x 22mm | 1 |
| 32 | HC091 | Socket Head Cap Shouldered | M4 x 40mm | 1 |
| 33 | HC098 | Button Head Cap Screws | M4 x 8mm | 4 |
| 34 | HC111 | Socket Head Cap Screw | M4 x 24mm | 1 |
| 35 | HC128 | Flat Head Cap Screws | M2.5 x 5mm | 3 |
| 36 | HC134 | Flat Head Cap Screw | M3 x 8mm | 1 |
| 37 | HC153 | Set Screws | M4 x 6mm | 1 |
| 38 | HC158 | Set Screws | M5 x 20mm | 2 |
| 39 | HC165 | Vite Nylon Esa | M8 x 20mm | 2 |
| 40 | HC176 | Washer | Ø3 x Ø4x0.5mm | 1 |
| 41 | HC180 | Washers | Ø3.2 x Ø6 x 0.5mm | 2 |
| 42 | HC188 | Washers | Ø5.3 x Ø15 x 1mm | 2 |
| 43 | HC200 | Metric Hex Nylon Nuts | M2.5 H3.5mm | 2 |
| 44 | HC206 | Metric Hex Nylon Nuts | M3 H4mm | 2 |
| 45 | HC212 | Metric Hex Nylon Nuts | M4 H5mm | 2 |
| 46 | HC218 | Metric Hex Nylon Nuts | M5 H4.8mm | 2 |
| 48 | HC309 | Big Motor Belt | 240-3MGT | 1 |
| 32 | HC091 | Socket Head Cap Screw | M3 x 40mm | 1 |
| 49 | HC310 | Springs | De 5.8-df0.3-LL9 | 2 |
| 50 | HC312 | Spring | De 8-df0.5-LL8 | 1 |
| 51 | HC314 | Springs | De 8-df0.5-LL12 | 2 |
| 52 | HC402 | Flanged Bearings | Ø3 x Ø7 x 3mm | 2 |
| 53 | HC410 | Flanged Bearings | Ø5 x Ø9 x 3mm | 2 |
| 54 | HC420 | Bearings | Ø10 x Ø15 x 4mm | 2 |
| 55 | HC422 | Bearings | Ø10 x Ø19 x 5mm | 2 |
| 56 | HC426 | Bearings | Ø12 x Ø24 x 6mm | 2 |
| 57 | HC442 | One Way Bearing | Ø10 x Ø14 x 12mm | 2 |
| 58 | HC232 | Washer | Ø10 x Ø16 x 0.2mm | 1 |
| 59 | HC414 | Flanged Bearings | Ø6 x Ø13 x 5mm | 1 |
| 60 | H0142 | Support Bearing | Aluminum | 1 |



| Head System | | | | |
|-------------|-------|----------------------------------|---------------|----------|
| POS | COD | Name | Specification | Quantity |
| 1 | H0023 | Swashplate Set | | 1 |
| 3 | H0144 | Damper Derlin | | 2 |
| 4 | H0031 | Uniball Spacers | Aluminum | 3 |
| 5 | H0205 | Unibal Radius Arms | Plastic | 2 |
| 6 | H0132 | Radius Arms | Aluminum | 2 |
| 7 | H0182 | Main Blade Grips | Aluminum | 2 |
| 8 | H0063 | Uniball | M3 x 4 Ø5 H18 | 1 |
| 9 | H0064 | Uniballs | M2.5 Ø5 H6 | 3 |
| 10 | H0065 | Uniballs | M3 x 4 Ø5 H3 | 8 |
| 11 | H0066 | Plastic Ball Linkages | Plastic | 8 |
| 12 | H0075 | Servo Spacers | Carbon Fiber | 6 |
| 13 | H0079 | Spindle | Carbon Steel | 1 |
| 14 | H0135 | Center Hub | Aluminum | 1 |
| 15 | H0183 | Blade Grip Arms | Aluminum | 2 |
| 16 | HC008 | Socket Head Cap Screws | M2 x 8mm | 7 |
| 17 | HC020 | Socket Head Cap Screws | M2.5 x 8mm | 3 |
| 18 | HC026 | Socket Head Cap Screws | M2.5 x 12mm | 9 |
| 19 | HC044 | Socket Head Cap Screws | M3 x 6mm | 3 |
| 20 | HC102 | Socket Head Cap Screws | M4 x 10mm | 2 |
| 21 | HC062 | Socket Head Cap Screws | M3 x 12mm | 2 |
| 22 | HC111 | Socket Head Cap Screw Shouldered | M4 x 24mm | 1 |
| 23 | HC116 | Socket Head Cap Screw Shouldered | M5 x 35mm | 2 |

| Head System | | | | |
|-------------|-------|------------------------|-------------------|----------|
| POS | COD | Name | Specification | Quantity |
| 24 | HC122 | Button Head Cap Screws | M6 x 10mm | 2 |
| 25 | HC242 | Threaded Rods | M2.5 x 40mm | 3 |
| 26 | H0346 | Linkages Assembly | | 2 |
| 27 | HC170 | Washers | Ø2 x Ø5 x 0.5mm | 3 |
| 28 | HC176 | Washers | Ø3 x Ø4 x 0.5mm | 2 |
| 29 | HC194 | Washers | Ø6 x Ø14 x 1.5mm | 2 |
| 30 | HC212 | Metric Hex Nylon Nut | M4 H5 | 1 |
| 31 | HC218 | Metric Hex Nylon Nuts | M5 H4.8 | 2 |
| 32 | HC230 | Washers | Ø10 x Ø16 x 1mm | 4 |
| 33 | HC402 | Flanged Bearings | Ø3 x Ø7 x 3mm | 4 |
| 34 | HC422 | Bearings | Ø10 x Ø19 x 5mm | 4 |
| 35 | HC438 | Thrust Bearings | Ø10 x Ø18 x 5.5mm | 2 |
| 36 | HC232 | Washers | Ø10 x Ø16 x 0.2mm | 2 |
| 42 | HC002 | Socket Head Cap Screws | M2 x 5mm | 3 |
| 43 | HC430 | Bearing Rads | Ø30 x Ø37 x 4mm | 2 |
| 44 | HA024 | Oring | 3050 | 2 |
| 45 | H0235 | Spacer Arm | Ø2.5 x Ø4 x 6.3mm | 2 |
| 46 | H0134 | Spacer Arm | Ø3 x Ø5 x 2.7mm | 2 |
| 47 | HC032 | Socket Head Cap Screws | M2.5 x 18mm | 2 |
| 48 | HC068 | Socket Head Cap Screws | M3 x 16mm | 2 |
| 49 | HC400 | Flanged Bearings | Ø2.5 x Ø6 x 2.5mm | 4 |
| 50 | H0158 | Blade Washers | Ø5 x Ø24 x 1mm | 4 |


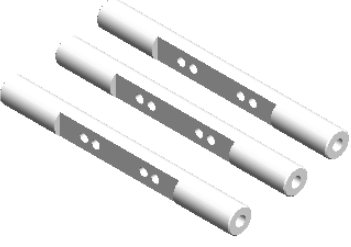


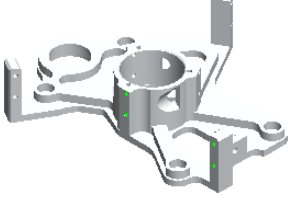

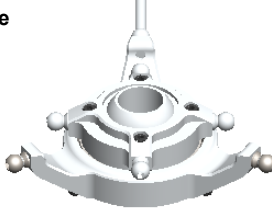
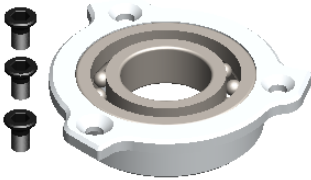


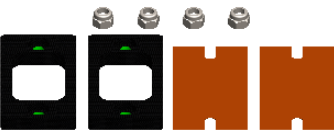
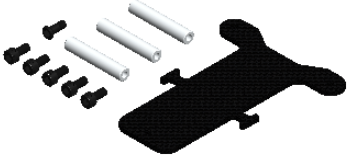

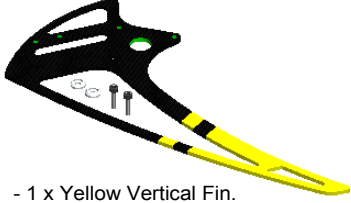
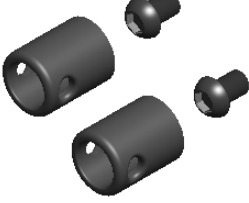
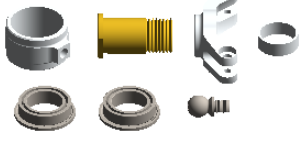
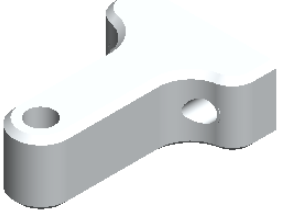
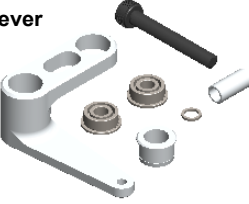
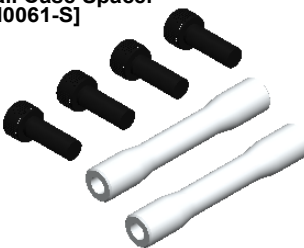
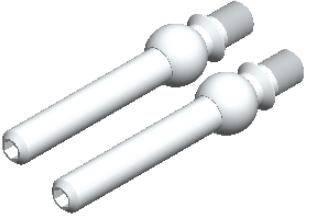


TAIL SYSTEM

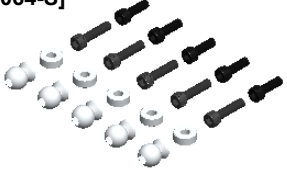
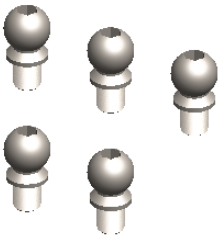
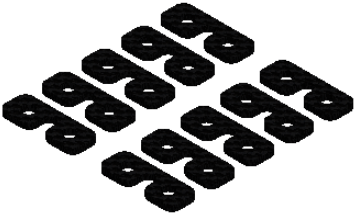
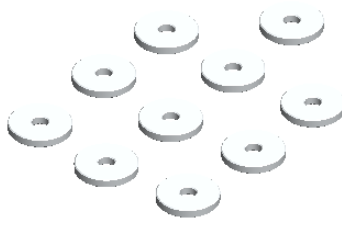

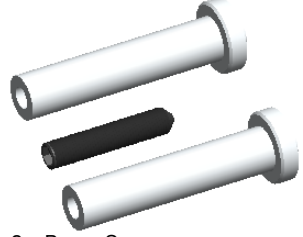
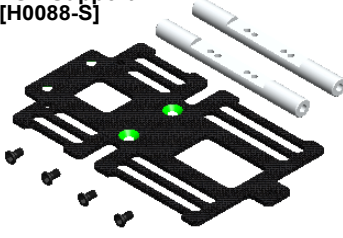
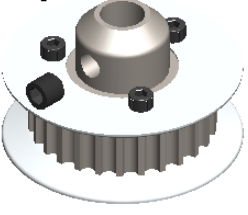




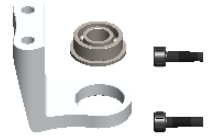
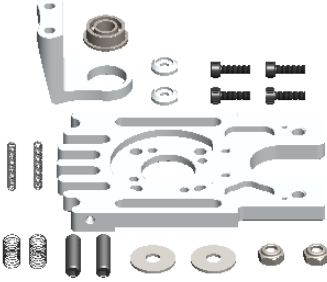

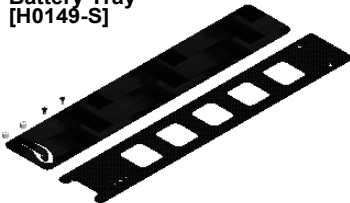
| POS | COD | Name | Specification | Quantity |
|-----|-------|------------------------|----------------------|----------|
| 1 | H0007 | Finishing Washer M3 | Aluminum | 4 |
| 2 | H0029 | Spacer | Ø8.1 x Ø9.2 x 3.2mm | 1 |
| 3 | H0031 | Uniball Spacer | | 1 |
| 4 | H0040 | Tail Servo Locks | Plastic | 2 |
| 5 | H0041 | Locking Element Tails | Carbon Fiber | 2 |
| 6 | H0045 | Linkage Tail Support | Plastic | 1 |
| 7 | H0046 | Yellow Vertical Fin | Carbon fiber | 1 |
| | H0117 | Red Vertical Fin | Carbon fiber | 1 |
| 8 | h0155 | Tail pulley | 25t | 1 |
| 9 | H0053 | Tail pitch slider 01 | Aluminum | 1 |
| 10 | H0054 | Tail pitch slider 02 | Aluminum | 1 |
| 11 | H0055 | Tail pitch slider 03 | Aluminum | 1 |
| 12 | H0058 | Bell crank base | Aluminum | 1 |
| 13 | H0059 | Bell crank lever | Aluminum | 1 |
| 14 | H0060 | Spacer | Ø3 x Ø4 x 9.6mm | 1 |
| 15 | H0061 | Tail case spacers | Aluminum | 2 |
| 16 | H0064 | Uniballs | M2.5 Ø5H6 | 2 |
| 17 | H0065 | Uniballs | M3 x 4 Ø5H3 | 1 |
| 18 | H0066 | Plastic ball links | Plastic | 2 |
| 19 | H0072 | Bush bell crank | Aluminum | 1 |
| 20 | H0075 | Servo Spacer | Carbon Fiber | 2 |
| 21 | H0076 | Grip link bushes | Aluminum | 2 |
| 22 | H0078 | Washers | Ø3.1 x Ø12 x 1.8mm | 2 |
| 23 | H0082 | Boom spacers | | 2 |
| 24 | H0261 | Tail pitch slider link | Plastic | 2 |
| 25 | H0380 | Yellow Tail boom | | 1 |
| 26 | H0325 | Tail rotor shaft | | 1 |
| 27 | H0326 | Tail rotor hub | | 1 |
| 28 | H0327 | Tail blade grip | | 2 |
| 29 | H0329 | Tail Spindle | | 1 |
| 30 | H0330 | Washer | Spacer Ø5x Ø9x0.75mm | 2 |


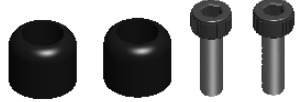
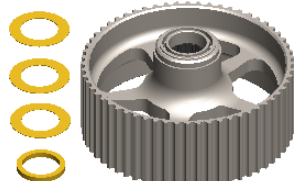
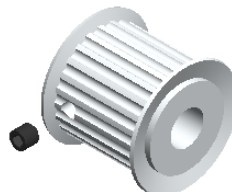
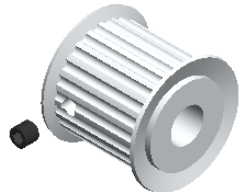
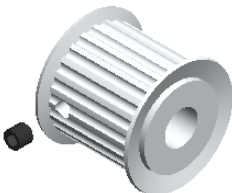
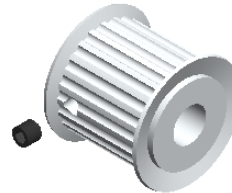
TAIL SYSTEM

| POS | COD | Name | Specification | Quantity |
|-----|-------|-----------------------------------|------------------------|----------|
| 31 | H0349 | Washer | Spacer Ø7.5x Ø10x0.5mm | 2 |
| 32 | H0359 | Tail Side Plate | Aluminum | 1 |
| 33 | H0360 | Tail Upper Case | Aluminum | 1 |
| 34 | HC004 | Socket Head Cap Screws | M2 x 6mm | 3 |
| 35 | HC008 | Socket Head Cap Screws | M2 x 8mm | 1 |
| 36 | HC018 | Socket Head Cap Screws | M2.5 x 6mm | 6 |
| 37 | HC020 | Socket Head Cap Screws | M2.5 x 8mm | 2 |
| 38 | HC026 | Socket Head Cap Screws | M2.5 x 12mm | 4 |
| 39 | HC050 | Socket Head Cap Screws | M3 x 8mm | 8 |
| 40 | HC062 | Socket Head Cap Screws | M3 x 12mm | 6 |
| 41 | HC079 | Socket Head Cap Screws Shouldered | M3 x 18mm | 2 |
| 42 | HC086 | Socket Head Cap Screws | M3 x 22mm | 1 |
| 43 | HC096 | Button Head Cap Screws | M4 x 6mm | 2 |
| 44 | HC150 | Set Screws | M3 x 20mm | 3 |
| 45 | HC153 | Set Screws | M4 x 6mm | 1 |
| 46 | HC176 | Washer | | 1 |
| 47 | HC206 | Metric Hex Nylon Nuts | M3 | 6 |
| 48 | HC238 | Carbon Rod | | 1 |
| 49 | HC242 | Threaded Rods | M2.5 x 40mm | 2 |
| 50 | HC325 | Belt Gates | | 1 |
| 51 | HC335 | Oring | Rubber | 2 |
| 52 | HC402 | Flanged Bearings | Ø3 x Ø7 x 3mm | 2 |
| 53 | HC411 | Bearings | Ø5x Ø10x4mm | 4 |
| 54 | HC414 | Flanged Bearings | Ø6 x Ø13 x 5mm | 2 |
| 55 | HC418 | Flanged Bearings | Ø8 x Ø12 x 3.5mm | 2 |
| 56 | HC435 | Thrust Bearings | Ø5x Ø10x4mm | 2 |
| 57 | HA015 | Double-sided tapes | | 2 |
| 58 | H0358 | Block Nut | | 1 |
| 59 | HC134 | Flat Head Cap Screws M3x8mm | | 1 |
| 60 | HC165 | Nylon Screw M8x20mm | | 2 |

| | | | |
|--|---|--|---|
| <p>Battery Tray [H0002-S]</p>  <p>- 1 x CF Battery Tray. - 6 x Flat Head Cap Screws M2.5x5mm.</p> | <p>Frame Spacer [H0003-S]</p>  <p>- 3 x Frame Spacers.</p> | <p>Finishing Washer M3 [H0007-S]</p>  <p>- 10 x Finishing Washers M3.</p> | <p>Main Structure [H0009-S]</p>  <p>- 1 x Main Structure.</p> |
| <p>Servo Support [H0010-S]</p>  <p>- 1 x Servo Support.</p> | <p>Column [H0018-S]</p>  <p>4 x Columns.</p> | <p>Swashplate [H0023-S]</p>  <p>- 1 x Swashplate Assembly. - 2 x Bearings 30xϕ37x4mm. - 4 x Uniballs M3x4 ϕ5 H3. - 1 x Uniball M3x4 ϕ5 H18. - 3 x Socket Head Cap Screws M2x5mm. - 4 x Socket Head Cap Screws M2x8mm.</p> | <p>Bearing Support [H0024-S]</p>  <p>- 1 x Bearing Support. - 1 x Bearing ϕ12xϕ24x6mm. - 3 x Flat Head Cap Screws M2.5x5mm.</p> |
| <p>Safety Lock Tail Boom [H0038-S]</p>  <p>- 1 x Safety Lock Tail Boom. - 1 x Finishing Washer M3. - 1 x Socket Head Cap Screw M3x8mm.</p> | <p>Tail Servo Lock [H0040-S]</p>  <p>- 2 x Tail Servo Locks. - 2 x Servo Spacers. - 4 x Socket Head Cap Screws M2.5x12mm.</p> | <p>Locking Element Tail [H0041-S]</p>  <p>- 2 x Locking Element Tails. - 4 x Metric Hex Nylon Nuts M3. - 2 x Double Sided Tapes.</p> | <p>Spacer Flybarless [H0043-S]</p>  <p>- 3 x Spacer Flybarless. - 1 x Supporto Flybarless. - 1 x Flat Head Cap Screw M3x8mm. - 5 x Socket Head Cap Screws M3x6mm.</p> |
| <p>Linkage Tail Support [H0045-S]</p>  <p>- 1 x Linkage Tail Support. - 2 x Socket Head Cap Screws M2.5x6mm.</p> | <p>Yellow Vertical Fin [H0046-S]</p>  <p>- 1 x Yellow Vertical Fin. - 2 x Socket Head Cap Screws M3x12mm. - 2 x Finishing Washers M3.</p> | <p>Antenna Guide [H0050-S]</p>  <p>- 2 x Antenna Guide. - 2 x Button Head Cap Screws M3x4mm.</p> | <p>Tail Pitch Slider [H0053-S]</p>  <p>- 1 x Tail Pitch Slider 01. - 1 x Tail Pitch Slider 02. - 1 x Tail Pitch Slider 03. - 1 x Spacer ϕ8xϕ9x3.2mm. - 1 x Uniball M3x4 ϕ5H3. - 2 x Flanged Bearings ϕ8xϕ12x3.5mm</p> |
| <p>Bell Crank Base [H0058-S]</p>  <p>- 1 x Bell Crank Base.</p> | <p>Bell Crank Lever [H0059-S]</p>  <p>- 1 x Bell Crank Lever. - 1 x Bush Bell Crank. - 1 x Washer ϕ3xϕ4x0.5mm. - 1 x Spacer ϕ3xϕ4x9.6mm. - 1 x Socket Head Cap Screw M3x22mm. - 2 x Flanged Bearings ϕ3xϕ7x3mm.</p> | <p>Tail Case Spacer [H0061-S]</p>  <p>- 2 x Tail Case Spacers. - 4 x Socket Head Cap Screws M3x8mm.</p> | <p>Uniball M3x4 ϕ5H18 [H0063-S]</p>  <p>- 1 x Uniball M3x4 ϕ5H18.</p> |



























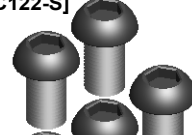


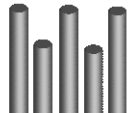
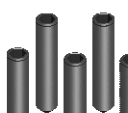

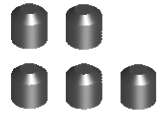


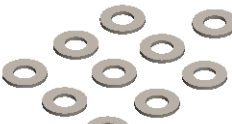


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| <p>Uniball M2 ϕ 5H6 [H0064-S]</p>  <ul style="list-style-type: none"> - 5 x Uniballs M2 ϕ 5H6. - 5 x Uniball Spacers. - 5 x Socket Head Cap Screws M2x8mm. - 5 x Socket Head Cap Screws M2x6mm. | <p>Uniball M3x4 ϕ 5H3 [H0065-S]</p>  <ul style="list-style-type: none"> - 5 x Uniballs M3x4 ϕ 5H3.5. | <p>Plastic Ball Link [H0066-S]</p>  <p>10 x Plastic Ball Link.</p> | <p>Servo Spacer [H0075-S]</p>  <p>-10 x Servo Spacers.</p> |
| <p>Washer ϕ 3.1x ϕ 12x1.8mm [H0078-S]</p>  <p>- 10 x Washers ϕ 3.1x ϕ 12x1.8mm.</p> | <p>Spindle [H0079-S]</p>  <ul style="list-style-type: none"> - 1 x Spindle. - 2 x Button Head Cap Screw M6x10mm. - 2 x Washer ϕ 6x ϕ 14x1.5mm | <p>Boom Spacer [H0082-S]</p>  <ul style="list-style-type: none"> - 2 x Boom Spacer. - 1 x Set Screw M3x20mm. | <p>ESC Support [H0088-S]</p>  <ul style="list-style-type: none"> - 1 x ESC Support. - 2 x Frame Spacer. - 4 x Flat Head Cap Screws M2.5x5mm. |
| <p>25T Tail Pulley [H0155-S]</p>  <ul style="list-style-type: none"> - 1 x 25T Tail Pulley. - 1 x Set Screw M4x4mm. - 6 x Socket Head Cap Screws M2x5mm. | <p>Bush One Way [H0110-S]</p>  <p>- 4 x Bush One Ways.</p> | <p>Red Vertical Fin [H0117-S]</p>  <ul style="list-style-type: none"> - 1 x Red Vertical Fin. - 2 x Socket Head Cap Screws M3x12mm. - 2 x Finishing Washers M3. | <p>M4 Locking Collar [H0121-S]</p>  <ul style="list-style-type: none"> - 1 x M4 Locking Collar. - 1 x Socket Head Cap Screw M4x22mm. - 1 x Metric Hex Nylon Nut M4 H5. |
| <p>Main Shaft [H0127-S]</p>  <ul style="list-style-type: none"> - 1 x Main Shaft. - 1 x M4 Locking Collar. - 1 x Socket Head Cap Screw Shouldered M4x24mm. - 2 x Socket Head Cap Screws M4x22mm. - 3 x Metric Hex Nylon Nuts M4 H5. | <p>Radius Arm [H0132-S]</p>  <ul style="list-style-type: none"> - 2 x Radius Arms. - 2 x Spacer Arm ϕ 3x ϕ 5x2.7mm. - 2 x Spacer Arm ϕ 2.5x ϕ 4x6.3mm. - 2 x Uniball Radius Arms. - 2 x Socket Head Cap Screws M3x16mm. - 2 x Socket Head Cap Screws M2.5x18mm. - 2 x Washers ϕ 3x ϕ 4x0.5mm. - 2 x Flanged Bearings ϕ 2.5x ϕ 6x2.5mm. - 2 x Flanged Bearings ϕ 3x ϕ 7x3mm. | <p>Center Hub [H0135-S]</p>  <ul style="list-style-type: none"> - 1 x Center Hub. - 1 x Socket Head Cap Screw Shouldered M4x24mm. - 1 x Metric Hex Nylon Nut M4 H5. - 2 x Socket Head Cap Screws M3x12mm. | <p>Bearing Support [H0142-S]</p>  <ul style="list-style-type: none"> - 1 x Bearing 3° Support. - 1 x Flanged Bearing ϕ 6x ϕ 13x5mm. - 2 x Socket Head Cap Screws M3x8mm. |
| <p>Motor Mount [H0143-S]</p>  <ul style="list-style-type: none"> - 1 x Bearing 3° Support. - 1 x Motor Support. - 1 x Flanged Bearing ϕ 6x ϕ 13x5mm. - 2 x Socket Head Cap Screws M3x8mm. - 2 x Set Screws M5x20mm. - 2 x Washers ϕ 5.3x ϕ 15x1mm. - 2 x Metric Hex Nylon Nuts M5H4.8. - 2 x Finishing Washers M3. - 2 x Socket Head Cap Screws M3x10mm. - 2 x Metric Hex Nylon Nut M3 H4. - 2 x Springs de 5.8/ df0.5 / LL9. - 2 x Springs de 3/ df0.5 / LL12. | <p>Damper [H0144-S]</p>  <ul style="list-style-type: none"> - 2 x Damper Derlin. - 2 x Washers ϕ 10x ϕ 16x1mm. - 4 x Washers ϕ 10x ϕ 16x0.2mm. - 4 x Orings 3050. | <p>Battery Tray [H0149-S]</p>  <ul style="list-style-type: none"> - 1 x Battery Plate. - 1 x Battery Protection. - 2 x Cylinder M2.5. - 2 x Flat Head Cap Screw M2.5x5mm - 1 x Heat Shrink. | |

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| <p>Stop Battery Tray [H0150-S]</p>  <ul style="list-style-type: none"> - 1 x Stop Battery Tray. - 2 x Socket Head Cap Screw M2.5x8mm. | <p>Swashplate Anti-Rotation Guide [H0152-S]</p>  <ul style="list-style-type: none"> - 1 x CF Swashplate Anti-Rotation Guide. - 1 x Finishing Washer M3. - 1 x Socket Head Cap Screw M3x8mm. | <p>Carbon Fiber ESC Support (H0153-S)</p>  <ul style="list-style-type: none"> - 1 x Carbon Fiber ESC Support. - 6 x Flat Head Socket Cap M2,5x5mm. | <p>Secondary Shaft [H0157-S]</p>  <ul style="list-style-type: none"> - 1 x Secondary Shaft M3. - 1 x Socket Head Cap Screw Shoulder M2.5x19mm. - 1 x Metric Hex Nylon Nut M2,5H3,5. - 1 x Socket Head Cap Shoulder M3x22mm. - 1 x Metric Hex locknut Nuts M3H4. |
| <p>Aluminum Blade Spacer [H0158-S]</p>  <ul style="list-style-type: none"> - 4 x Aluminum Blade Spacer | <p>Canopy Positioner [H0159-S]</p>  <ul style="list-style-type: none"> - 2 x Canopy Positioner. - 2 x Socket Head Cap Screws M3x10mm. | <p>Double Bearing One Way Pulley [H0171-S]</p>  <ul style="list-style-type: none"> - 1 x Aluminum Double Bearing One Way Pulley. - 3 x Shims $\phi 10x \phi 16x0,2mm$. - 1 x One Way Brass Bushing. | <p>Aluminum Front Tail Pulley [H0172-S]</p>  <ul style="list-style-type: none"> - 1 x Aluminum Front Tail Pulley. - 1 x Socket Head Cap M2.5x19mm. - 1 x Metric Hex Nylon Nuts M2,5H3,5. |
| <p>Belt Tensioner Support [H0174-S]</p>  <ul style="list-style-type: none"> - 1 x Column Belt Tensioner. - 1 x Tail Belt Idler. - 1 x Belt Tensioner Arm. - 2 x Flanged Bearings $\phi 3x \phi 7x3mm$. - 2 x Flanged Bearings $\phi 5x \phi 9x3mm$. - 1 x Socket Head Cap Screw M3x50mm. - 1 x Washer $\phi 3x \phi 4x0,5mm$. - 1 x Socket Head Cap Screw M3x12mm. - 2 x Washers $\phi 3,2x \phi 6x0,5mm$. - 1 x Button Head Cap Screw M3x4mm. - 1 x Spring De8/df0.5/LL8. | <p>18T Pulley [H0175-18-S]</p>  <ul style="list-style-type: none"> - 1 x 18T Pulley. - 1 x Set Screws M4x4mm. | <p>19T Pulley [H0175-19-S]</p>  <ul style="list-style-type: none"> - 1 x 19T Pulley. - 1 x Set Screws M4x4mm. | |
| <p>20T Pulley [H0175-20-S]</p>  <ul style="list-style-type: none"> - 1 x 20T Pulley. - 1 x Set Screws M4x4mm. | <p>21T Pulley [H0175-21-S]</p>  <ul style="list-style-type: none"> - 1 x 21T Pulley. - 1 x Set Screws M4x4mm. | <p>22T Pulley [H0175-22-S]</p>  <ul style="list-style-type: none"> - 1 x 22T Pulley. - 1 x Set Screws M4x4mm. | <p>23T Pulley [H0175-23-S]</p>  <ul style="list-style-type: none"> - 1 x 23T Pulley. - 1 x Set Screws M4x4mm. |
| <p>24T Pulley [H0175-24-S]</p>  <ul style="list-style-type: none"> - 1 x 24T Pulley. - 1 x Set Screws M4x4mm. | <p>Blade Grip [H0182-S]</p>  <ul style="list-style-type: none"> - 2 x Blade Grip. - 2 x Thrust Bearing $\phi 10x \phi 18x5,5mm$. - 4 x Bearing $\phi 10x \phi 19x5mm$. - 2 x Washer $\phi 10x \phi 16x1mm$. - 2 x Button Head Socket Cap M4x10mm. | <p>Blade Grip Arm [H0183-S]</p>  <ul style="list-style-type: none"> - 2 x Blade Grip Arm. - 2 x Socket Head Cap Screw M4x10mm. - 2 x Uniball M3x4 $\phi 5$ H3.5. | |



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| <p>Plastic Tail Linkage [H0261-S]</p>  <ul style="list-style-type: none"> - 1 x Plastic Tail Linkage. - 1 x Grip Link Bushing. - 1 x Socket Head Cap Screws M2x6mm. | <p>Quick Release Canopy Mount [H0319-S]</p>  <ul style="list-style-type: none"> - 2 x Quick Release Canopy Assembly. - 2 x Flat Head Socket Cap M3x8mm. - 2 x Canopy Grommets. | <p>68T Main Gear [H0320-S]</p>  <ul style="list-style-type: none"> - 1 x 68T Main Gear . - 1 x Socket Head Cap Screw M4x25mm. - 1 x Metric Hex Nylon Nut M4 H5. - 1 x 19T Drive Pinion. - 1 x Socket Head Cap Screw Shouldered M3x22mm. - 1 x Metric Hex Nylon Nut M3H4. | <p>Steel Tail Shaft [H0325-S]</p>  <ul style="list-style-type: none"> - 1 x Steel Tail Shaft Assembly. - 1 x Tail Oring Damperner. |
| <p>Aluminum Tail Blade Grip [H0327-S]</p>  <ul style="list-style-type: none"> - 2 x Aluminum Tail Blade Grip. - 4 x Bearing Ø5xØ10x4mm. - 2 x Thrust bearing Ø5xØ10x4mm. - 2 x Button Head Cap M4x8mm. - 2 x Socket Head Cap M2x6mm. - 2 x Washer Ø5xØ8.9x0,75mm. - 2 x Washer Ø7.5xØ10x0,5mm. | <p>Tail Spilde Shaft [H0329-S]</p>  <ul style="list-style-type: none"> - 1 x Tail Spilde Shaft. - 2 x Button Head Socket Cap M4x6mm. | <p>Spacer Set For Tail Rotor [H0330-S]</p>  <ul style="list-style-type: none"> - 2 x Washer Ø5xØ8.9x0,75mm. - 2 x Washer Ø7.5xØ10x0,5mm. - 2 x Tail Oring Damperner. | <p>Lading Gear Plastic Support G700 [H0345-S]</p>  <ul style="list-style-type: none"> - 2 x Landing Gear Plastic Support. - 2 x Yellow Landing Gear. - 4 x Finishing Washer. - 4 x Socket Head Cap Screw M3x10. - 4 x Metrix Head Nylon Nut M3. |
| <p>Linkage HPS V2 [H0346-S]</p>  <ul style="list-style-type: none"> - 2 x Linkage HPS. - 4 x Plastic Ball Link. - 2 x Linkage Rod. | <p>Main Frame [H0354-S]</p>  <ul style="list-style-type: none"> - 1 x Main Frame. | <p>Tail Boom Support [H0358-S]</p>  <ul style="list-style-type: none"> - 1 x Tail Boom Support. - 1 x Nylon screw M8x20mm. - 1 x Flat Head Socket Cap M3x8mm. | <p>Aluminum Tail Side Plate [H0359-S]</p>  <ul style="list-style-type: none"> - 1 x Aluminum Tail Side Plate. - 1 x Flanged bearing Ø6xØ13x5mm. |
| <p>Tail Upper Case [H0360-S]</p>  <ul style="list-style-type: none"> - 1 x Tail Upper Case. - 4 x Socket Head Cap Screws M3x8mm. | <p>Yellow Tail Boom [H0380-S]</p>  <ul style="list-style-type: none"> - 1 x Yellow Tail Boom. - 2 x Locking Element Tails. - 2 x Double-Sided Tapes. - 1 x Set Screws M3 x 20mm. - 2 x Washers 3.1 x 12 x 1.8mm. - 4 x Metric Hex Nylon Nuts M3. - 2 x Boom spacers. - 2 x Socket Head Cap Screws M3 x 12mm. - 2 x Nylon Screw M8x20mm. - 1 x Flat Head Cap Screws M3x8mm. | <p>Canopy Yellow/Green [H0357-S]</p>  <ul style="list-style-type: none"> - 1 x Canopy Yellow/Green. - 2 x Canopy Grommet. - 1 x Canopy mousse. - 1 x Canopy Edge Protection. | |
| <p>Canopy Yellow/Orange [H0365-S]</p>  <ul style="list-style-type: none"> - 1 x Canopy Yellow/Orange. - 2 x Canopy Grommet. - 1 x Canopy mousse. - 1 x Canopy Edge Protection. | <p>Canopy Yellow/Blue [H0381-S]</p>  <ul style="list-style-type: none"> - 1 x Canopy Yellow/Blue. - 2 x Canopy Grommet. - 1 x Canopy mousse. - 1 x Canopy Edge Protection. | | |



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| <p>[HC002-S]</p>  <p>- 5 x Socket Head Cap Screws M2x5mm.</p> | <p>[HC004-S]</p>  <p>- 5 x Socket Head Cap Screws M2x6mm.</p> | <p>[HC008-S]</p>  <p>- 5 x Socket Head Cap Screws M2x8mm.</p> | <p>[HC010-S]</p>  <p>- 5 x Socket Head Cap Screws M2x10mm.</p> | <p>[HC018-S]</p>  <p>- 5 x Socket Head Cap Screws M2.5x6mm.</p> | <p>[HC020-S]</p>  <p>- 5 x Socket Head Cap Screws M2.5x8mm.</p> |
| <p>[HC026-S]</p>  <p>- 5 x Socket Head Cap Screw M2.5x12mm.</p> | <p>[HC033-S]</p>  <p>- 4 x Socket Head Cap shoulder M2.5x19mm. - 4 x Metrix Hex Nylon Nut M2.5.</p> | <p>[HC038-S]</p>  <p>- 5 x Button Head Cap Screws M3x4mm.</p> | <p>[HC044-S]</p>  <p>- 5 x Socket Head Cap Screws M3x6mm.</p> | <p>[HC050-S]</p>  <p>- 5 x Socket Head Cap Screws M3x8mm.</p> | <p>[HC056-S]</p>  <p>- 5 x Socket Head Cap Screws M3x10mm.</p> |
| <p>[HC062-S]</p>  <p>- 5 x Socket Head Cap Screws M3x12mm.</p> | <p>[HC068-S]</p>  <p>- 5 x Socket Head Cap Screws M3x16mm.</p> | <p>[HC079-S]</p>  <p>- 5 x Socket Head Cap Shoulder M3x18mm.</p> | <p>[HC086-S]</p>  <p>- 5 x Socket Head Cap Screws M3x22mm.</p> | <p>[HC091-S]</p>  <p>- 2 x Socket Head Cap Shoulders M3x40mm.</p> | <p>[HC096-S]</p>  <p>- 5 x Button Head Cap Screws M4x6mm.</p> |
| <p>[HC098-S]</p>  <p>- 5 x Button Head Cap Screws M4x8mm.</p> | <p>[HC100-S]</p>  <p>- 5 x Button Head Cap Screws M4x10mm.</p> | <p>[HC102-S]</p>  <p>- 5 x Socket Head Cap Screws M4x10mm.</p> | <p>[HC104-S]</p>  <p>- 5 x Socket Head Cap Screws M4x22mm.</p> | <p>[HC111-S]</p>  <p>- 2 x Socket Head Cap Shoulder M5x30mm. - 2 x Metrix Hex Nut M5.</p> | <p>[HC116-S]</p>  <p>- 2 x Socket Head Cap Shoulder M5x35mm. - 2 x Metrix Hex Nut M5.</p> |
| <p>[HC122-S]</p>  <p>- 5 x Button Head Cap Screws M6x10mm.</p> | <p>[HC128-S]</p>  <p>- 5 x Flat Head Cap Screws M2.5x5mm.</p> | <p>[HC134-S]</p>  <p>- 5 x Flat Head Cap Screws M3x8mm.</p> | <p>[HC140-S]</p>  <p>- 5 x Cup Point Set Screws M2.5x20mm.</p> | <p>[HC150-S]</p>  <p>- 5 x Cup Point Set Screws M3x20mm.</p> | <p>[HC152-S]</p>  <p>- 5 x Cup Point Set Screws M4x4mm.</p> |
| <p>[HC153-S]</p>  <p>- 5 x Cup Point Set Screws M4x6mm.</p> | <p>[HC170-S]</p>  <p>- 10 x Washer Ø2,2xØ5x0,3mm.</p> | <p>[HC176-S]</p>  <p>- 5 x Washer Ø3xØ4x0,5mm.</p> | <p>[HC180-S]</p>  <p>- 10 x Washer Ø3.3xØ6x0,5mm.</p> | <p>[HC188-S]</p>  <p>- 5 x Washer Ø5.3xØ15x1mm.</p> | <p>[HC194-S]</p>  <p>- 5 x Washer Ø6.3xØ15x1mm.</p> |



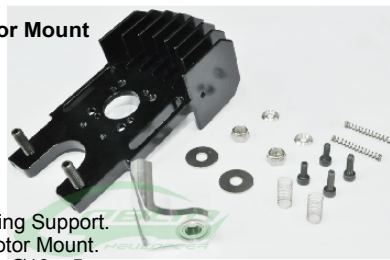


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| <p>[HC200-S]</p>  <p>- 10 x Metric Hex Nylon Nuts M2,5H3,5.</p> | <p>[HC206-S]</p>  <p>- 10 x Metric Hex Nylon Nuts M3H4.</p> | <p>[HC212-S]</p>  <p>- 10 x Metric Hex Nylon Nuts M4H5.</p> | <p>[HC218-S]</p>  <p>- 5 x Metric Hex Nylon Nuts M5H4.5.</p> | |
| <p>[HC230-S]</p>  <p>- 5 x Shims Ø10xØ16x1mm.</p> | <p>[HC232-S]</p>  <p>- 5 x Shims Ø10xØ16x0.2mm.</p> | <p>[HC238-S]</p>  <p>- 1 x Carbon Rod Ø4xØ2,5x752mm. - 2 x Plastic Ball Linkage. - 2 x Thread Rod M2.5x40mm.</p> | <p>[HC242-S]</p>  <p>- 3 X Thread Rods M2.5 x 40mm.</p> | <p>[HC325-S]</p>  <p>- 1 x Main Belt.</p> |
| <p>[HC309-S]</p>  <p>- 1 x Motor Belt 240-3MGT 19mm.</p> | <p>[HC315-S]</p>  <p>- 2 x Spring 5,8/df 0,3/LL 9. - 1 x Spring 8/df 0,5 / LL 8. - 2 x Spring 3/df 5 / LL 12.</p> | <p>[HC335-S]</p>  <p>- 4 x Tail Oring Dampener.</p> | <p>[HC400-S]</p>  <p>- 4 x Flanged Bearings Ø2.5xØ6x2.6mm.</p> | <p>[HC402-S]</p>  <p>- 4 x Flanged Bearings Ø3xØ7x3mm.</p> |
| <p>[HC410-S]</p>  <p>- 4 x Flanged Bearings Ø5xØ9x3mm.</p> | <p>[HC411-S]</p>  <p>- 4 x Bearings Ø5xØ10x4mm.</p> | <p>[HC414-S]</p>  <p>- 2 x Flanged Bearings Ø6xØ13x4mm.</p> | <p>[HC418-S]</p>  <p>- 2 x Flanged Bearings Ø8xØ12x3.5mm.</p> | <p>[HC420-S]</p>  <p>- 2 x Bearings Ø10xØ15x4mm.</p> |
| <p>[HC422-S]</p>  <p>- 4 x Bearings Ø10xØ19x5mm.</p> | <p>[HC426-S]</p>  <p>- 2 x Bearings Ø12xØ24x6mm.</p> | <p>[HC430-S]</p>  <p>- 2 x Rad Bearings Ø30xØ37x4mm.</p> | <p>[HC435-S]</p>  <p>- 2 x Thrust Bearings Ø5xØ10x4mm.</p> | <p>[HC438-S]</p>  <p>- 2 x Thrust Bearings Ø10xØ18x5.5mm.</p> |
| <p>[HC442-S]</p>  <p>- 1 x One Way Bearings Ø10xØ14x12mm.</p> | <p>[HA001-S]</p>  <p>- 1 x Foam Blade Holder</p> | <p>[HA002-S]</p>  <p>- 2 x Hex Wrenches 2,5.</p> | <p>[HA006-S]</p>  <p>- 1 x Canopy Mousse.</p> | <p>[HA010-S]</p>  <p>- 2 x Cable Pass.</p> |



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| <p>[HA016-S]</p>  <p>- 2 x Wrench Tool M8,M6.</p> | <p>[HA024-S]</p>  <p>- 4 x O-ring 3050.</p> | <p>[HA025-S]</p>  <p>- 2 x Velcro Battery Strap.</p> | <p>[HA026-S]</p>  <p>- 8 x Heat Shrink - Clear.</p> | <p>[HA112-S]</p>  <p>- 1 x Rubber Canopy Edge Protection.</p> | <p>[BW2770-S]</p>  <p>- 2 x Main Blade.</p> <p>[BW5110-S]</p>  <p>- 2 x Tail Blade.</p> |
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UPGRADES and ACCESSORIES

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| <p>New Heavy-Duty Tail Pulley 24T [H0154-S]</p>  <p>1 x New Heavy-Duty Tail Pulley 24T</p> | <p>Aluminum ESC Heat Sink [H0165-S]</p>  <ul style="list-style-type: none"> - 1 x Aluminum ESC Heat Sink. - 4 x Socket Head Cap M3x6mm. - 4 x Cup Point Set Screws M3X20mm. - 12 x Washer Ø3,3xØ6x0,5mm. - 4 x Metric hex locknut Nuts M3H4. | <p>Aluminum Cooling Motor Mount [H0316-S]</p>  <ul style="list-style-type: none"> - 1 x Aluminum Third Bearing Support. - 1 x Aluminum Cooling Motor Mount. - 1 x Flanged Bearing Ø6 x Ø13 x 5mm. - 2 x Socket Head Cap Screw M3x8mm. - 2 x Aluminum Finishing Washers. - 2 x Spring 5.8 / 0.3 / LL 9. - 2 x Spring 3 / 0.5 / LL 12. |
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| <p>SAB HELIDIVISION Futaba Servo Horn [HA050]</p>  <p>- 1 x Plastic Servo Horn.</p> | <p>SAB HELIDIVISION JR Servo Horn [HA050]</p>  <p>- 4 x JR Servo Horn.</p> | <p>SAB HELI DIVISION New Black T-shirt [HM025-S-M-L-XL-XXL]</p>  <p>- SAB HELI DIVISION New Black T-shirt.</p> |
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| <p>SAB HELI DIVISION Black Polo Shirt [HM027-S-M-L-XL-XXL]</p>  <p>- SAB HELI DIVISION Black Polo Shirt.</p> | <p>SAB HELI DIVISION Black Hoodies [HM029-S-M-L-XL-XXL]</p>  <p>- SAB HELI DIVISION Black Hoodies.</p> | <p>SAB HELI DIVISION Neck Strap [HM034]</p>  <p>- 1 x Neck Strap.</p> |
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| <p>SAB HELI DIVISION Decal [HM035]</p>  <p>- 1 x SAB HELI DIVISION Decal (set).</p> | <p>SAB HELI DIVISION Keychain [HM037]</p>  <p>- 1 x SAB HELI DIVISION Keychain.</p> | <p>SAB HELI DIVISION Stand [HM038]</p>  <p>- 1 x SAB HELI DIVISION Stand (Set).</p> |
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