

Goblin 770 COMPETITION Manual

Goblin 770 Competition Manual Release 1.0 - December 2013

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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!

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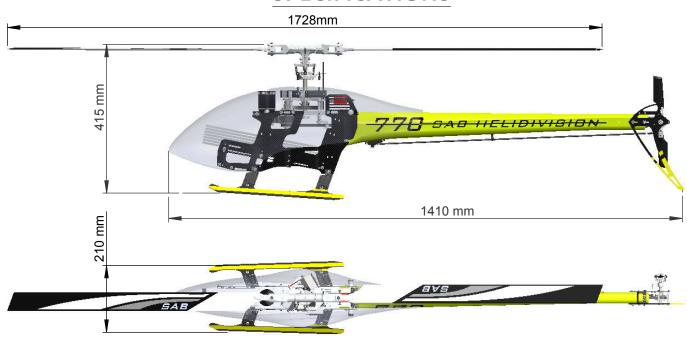
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SPECIFICATIONS



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)

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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:















Indicates that for this assembly phase you need materials that are in box xx, bag xx, tray xx.



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

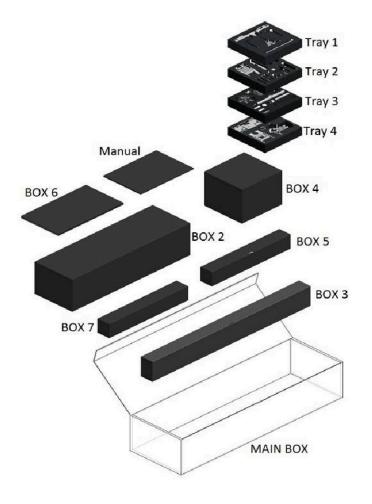
Tray 3: Transmission

Tray 4: Main structure

Box 5: Bags

Box 6: Carbon parts

Box 7: Landing gear support



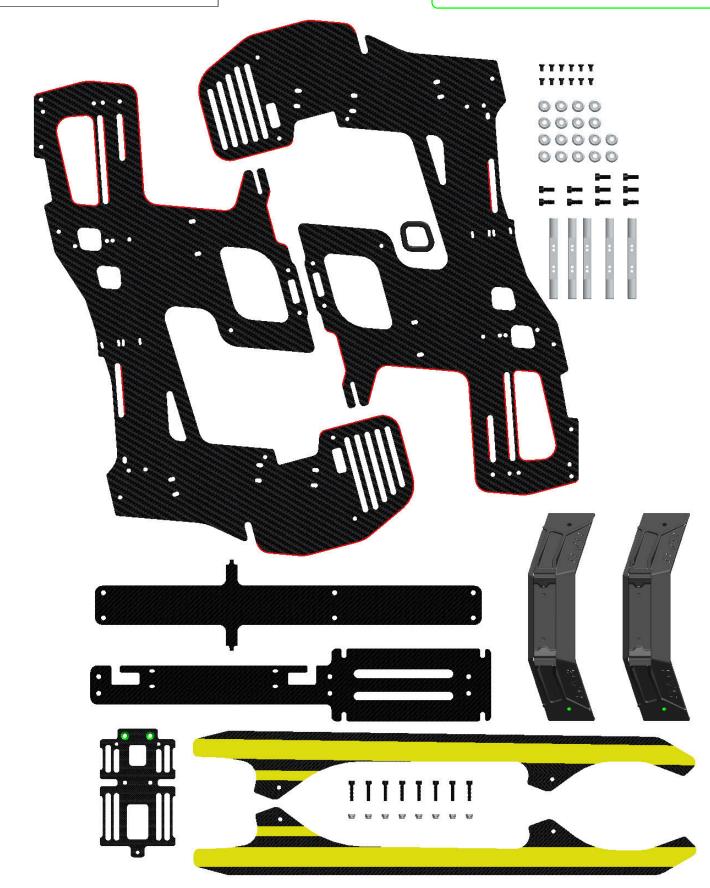
The assembly process is described in the following chapters. Each chapter provides you with the box, bag and/or foam tray numbers you will need for that chapter. The information is printed in a green box in the upper right hand corner of the page at the beginning of every chapter.



4-Carbon Frame

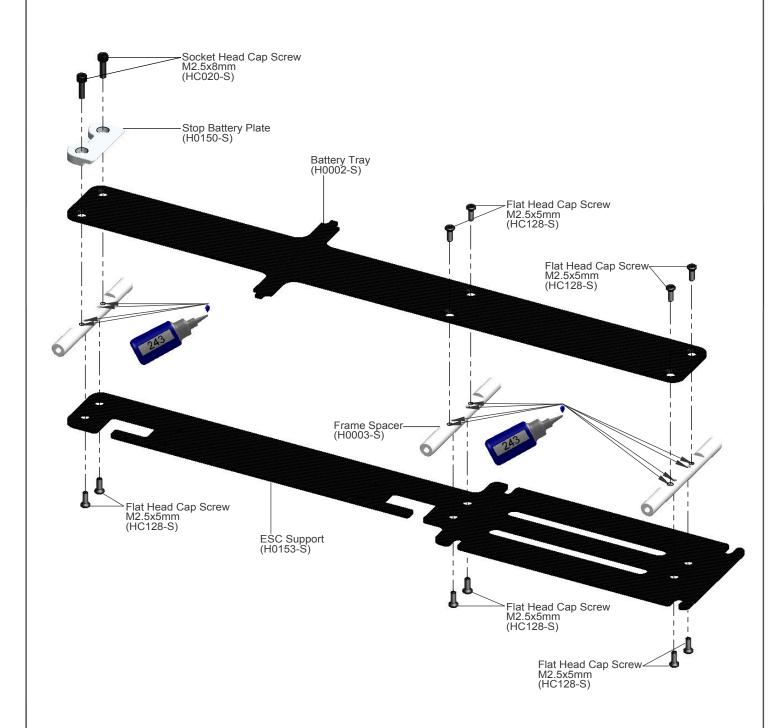


The manufacturing process of the carbon parts often leaves micro-burrs and sharp edges. We recommend de-burring the edges to minimize the risks of electrical wire cuts, etc. Very important in red line zone.





Box 7, Bag 1-1, Tray 2



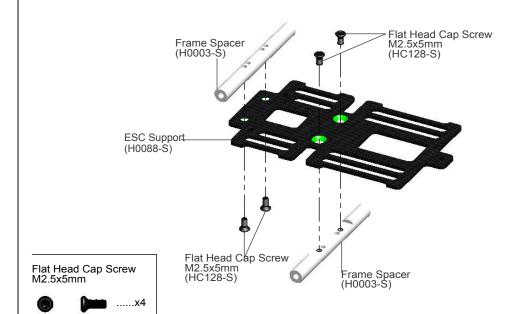
Socket Head Cap Screw M2.5x8mm
.....x2
Flat Head Cap Screw M2.5x5mm

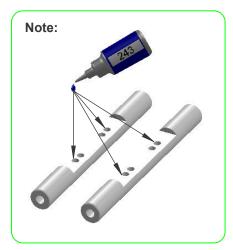
....x10

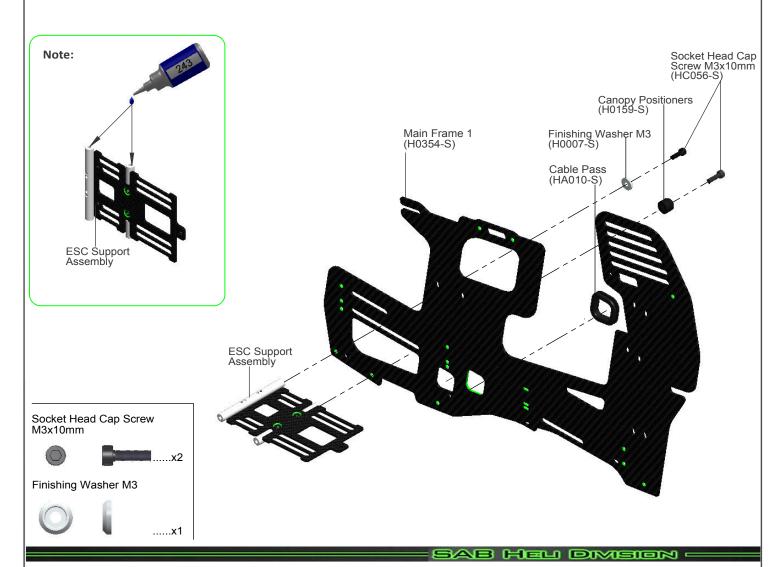


Box 6, Bag 1-2;1-3, Tray 2

ESC Support Assembly









Box 6, Bag 1-2

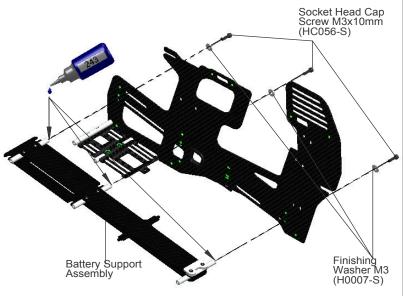
Note:

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





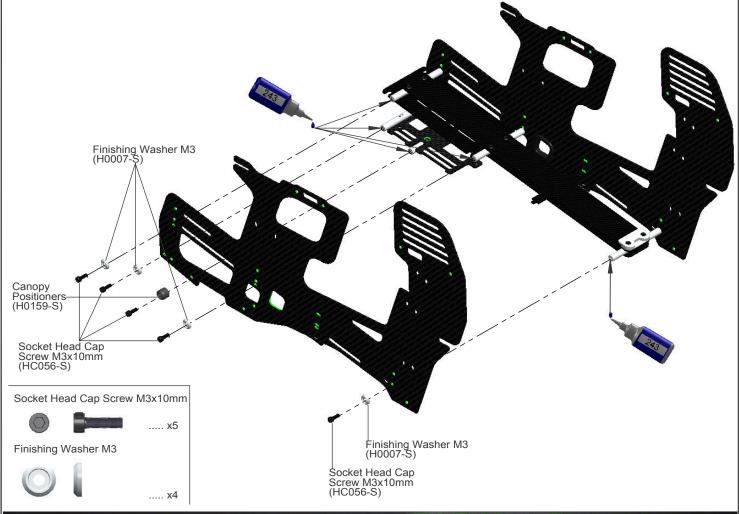


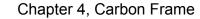
Finishing Washer M3





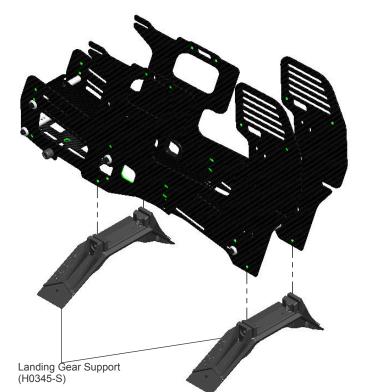
.... х3

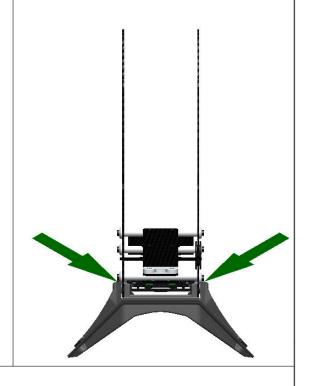


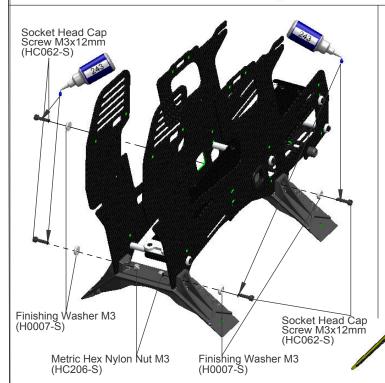


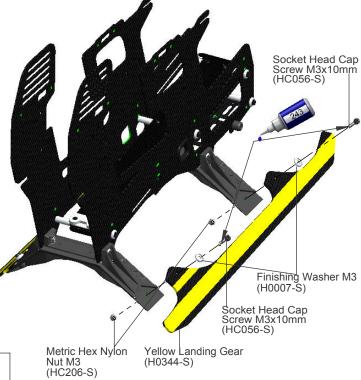


Box 7, Box 6, Bag 2









Socket Head Cap Screw M3x12mm







Socket Head Cap Screw M3x10mm



Metric Hex Nylon Nut M3





....x8





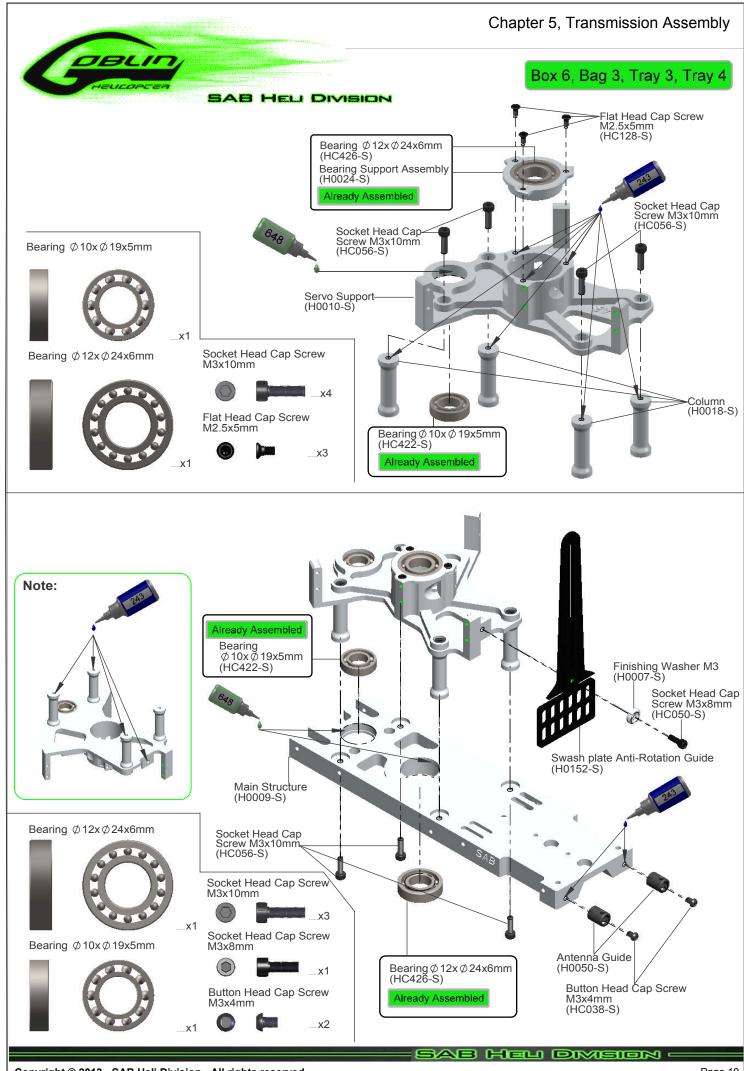


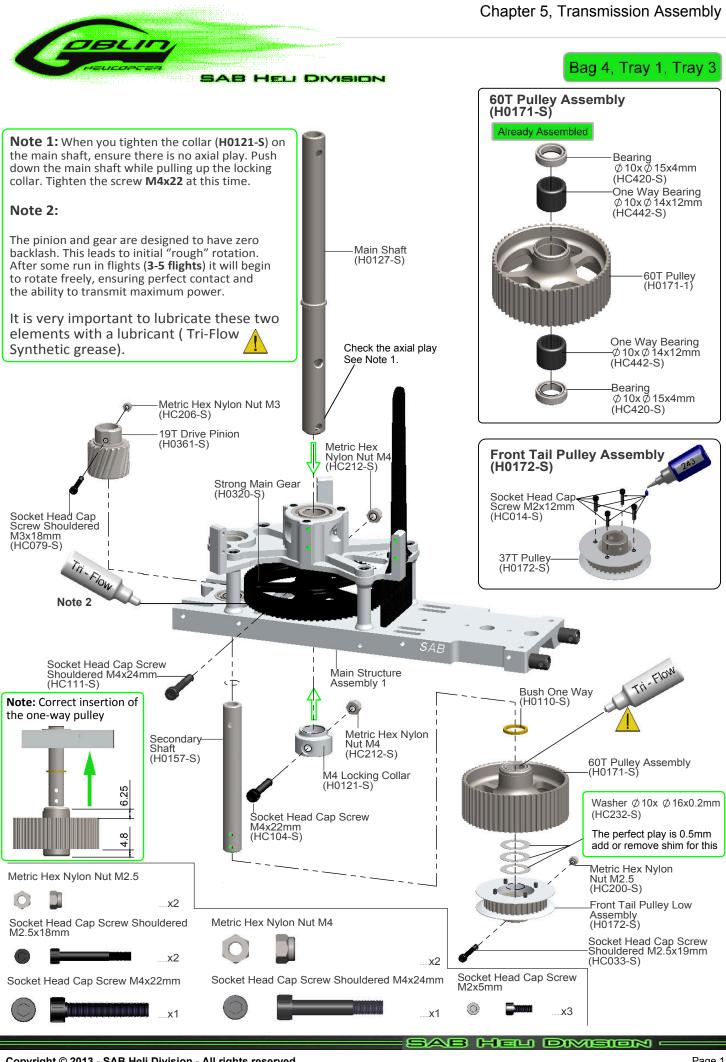
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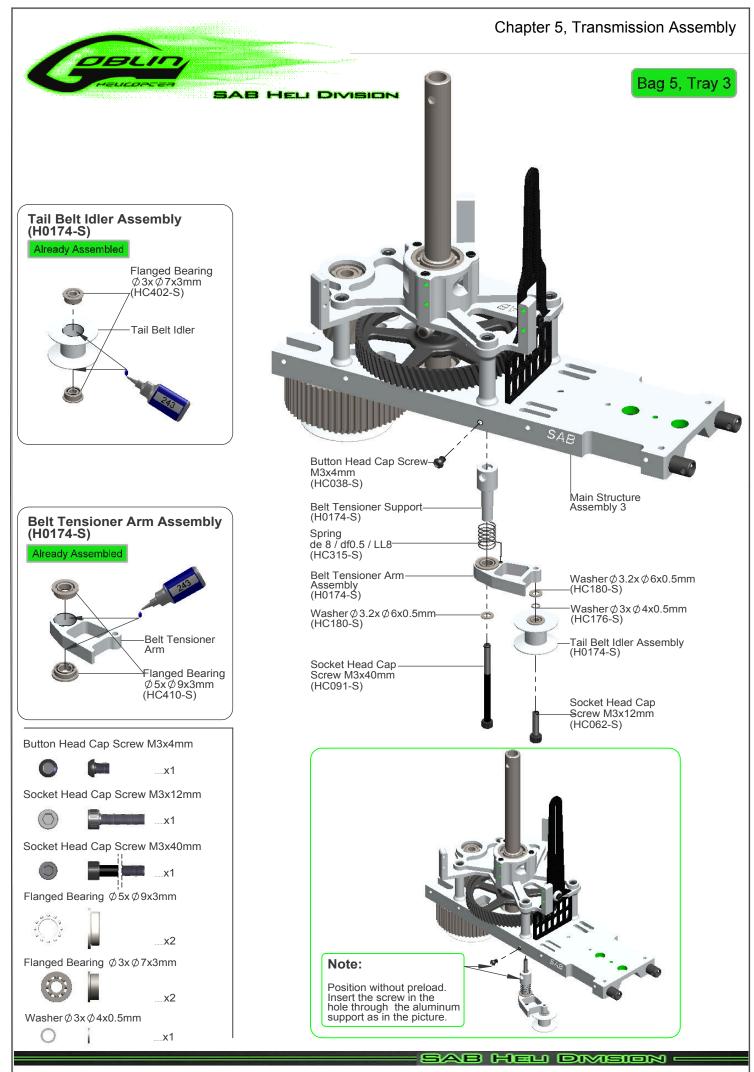


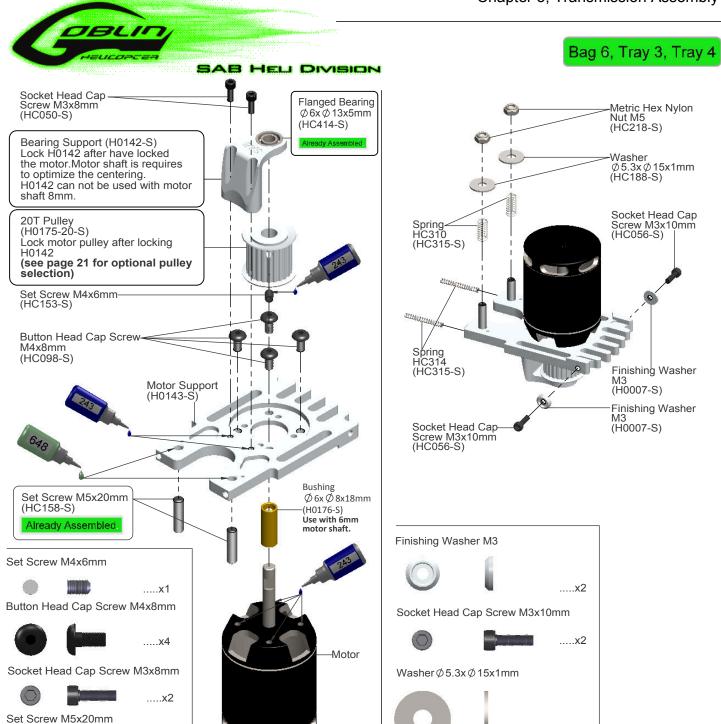
5 - Transmission Assembly









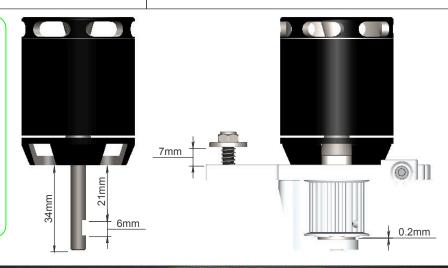


Note for 6mm motor shaft

....x2

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 cutoff disc.

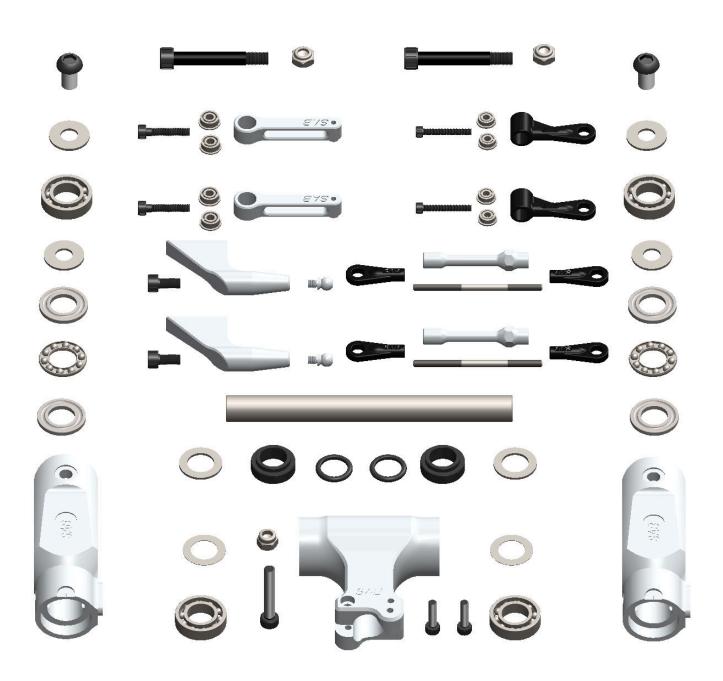
Additionally, ensure the motor shaft has an appropriate 'flat' for one of the set screws.

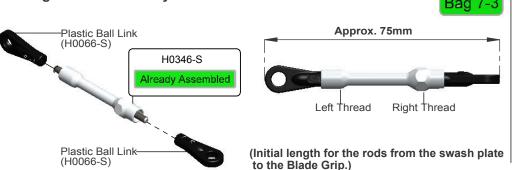


....x2



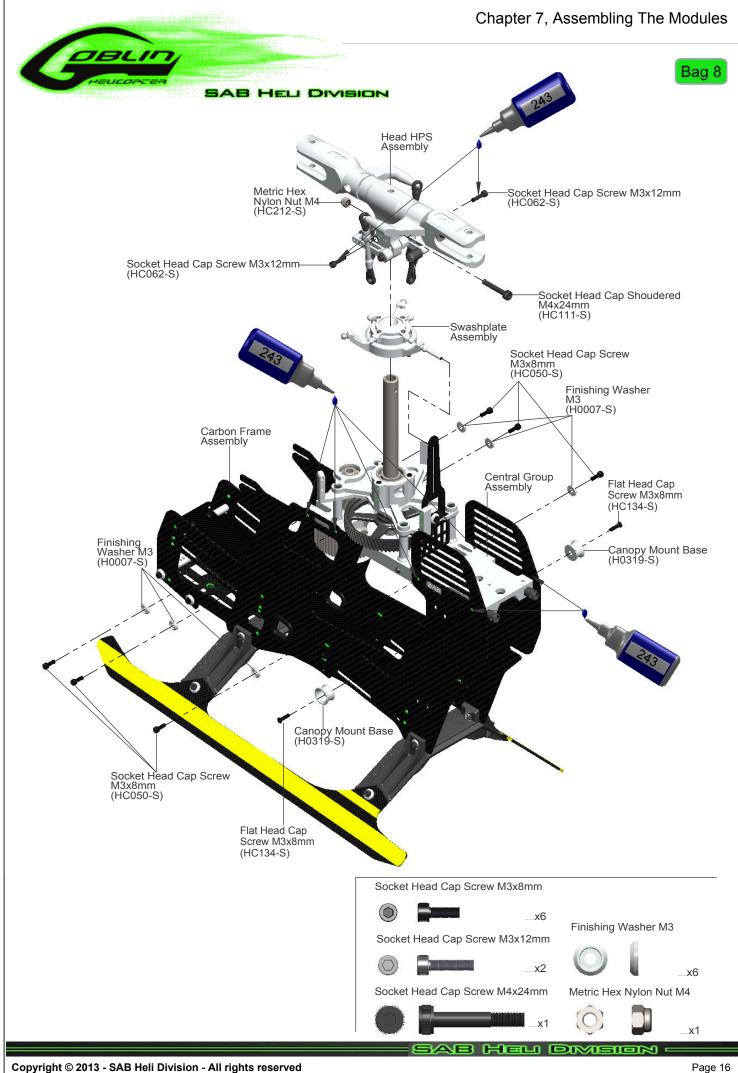
6 - Main Rotor





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(HC122-S)

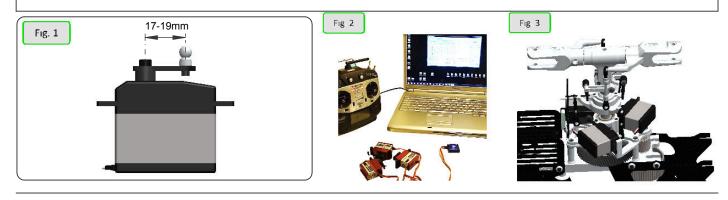




Bag 9

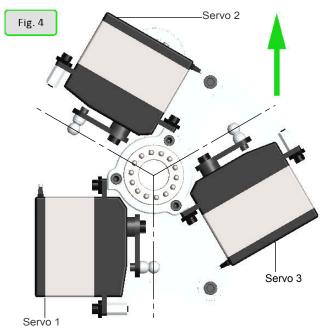
INSTALLATION OF SWASHPLATE SERVOS

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.

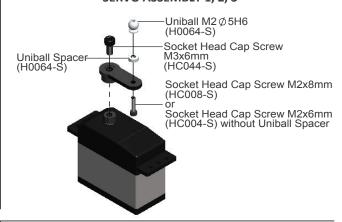


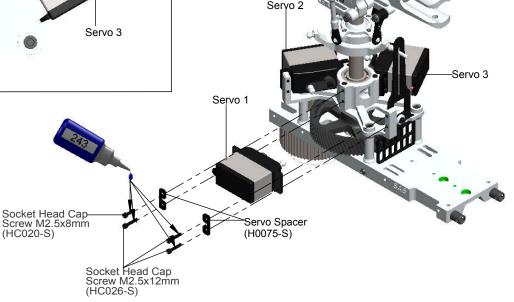
ASSEMBLY OF THE BALL ON THE HORN.

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



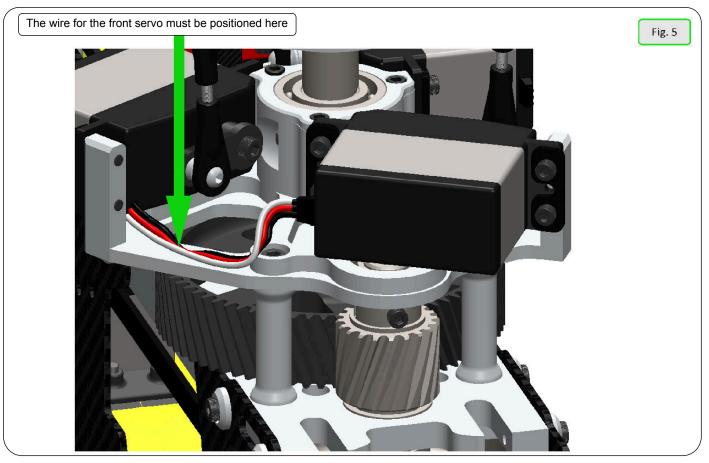


Socket Head Cap Screw M2.5x8mm



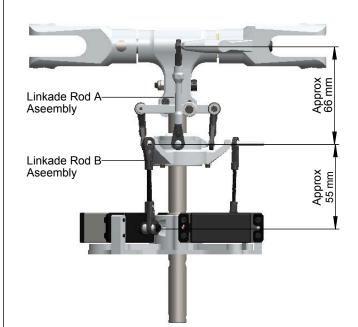




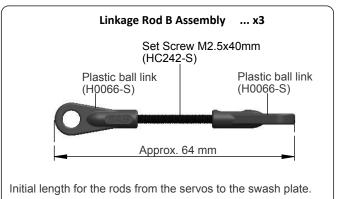


Head HPS Version Preliminary Setup

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



Approx 75mm (H0346-S) Left Thread Right Thread Plastic ball link (H0066-S) Initial length for the rods from the swashplate to the blade grips.





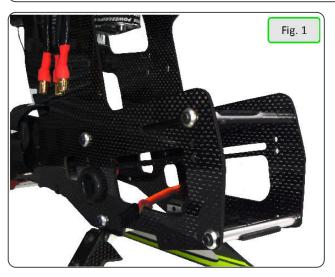
DE-BURR THE SIDE FRAMES





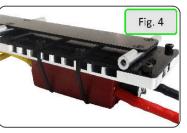
ESC INSTALLATION

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)









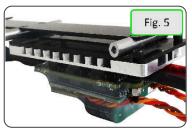
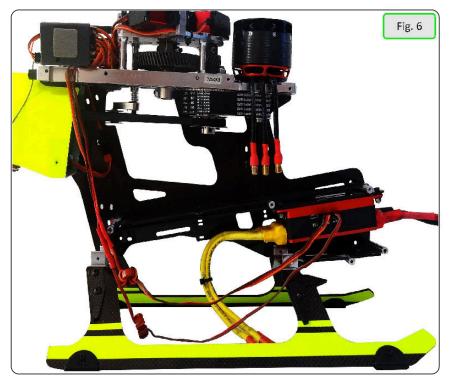


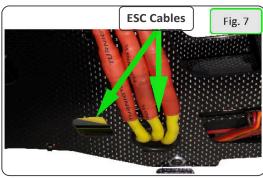
Figure 6: Shows the wiring which connects the receiver and ESC (in this picture one frame has been removed). If the BEC used is combined with the ESC, it is recommended to use a dual wire connection.

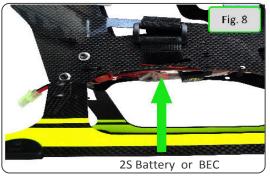
Figure 7: The passage of the controller wires to the motor is highlighted.

Figure 8: Shows the installation of a 25 battery for the flight control system

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



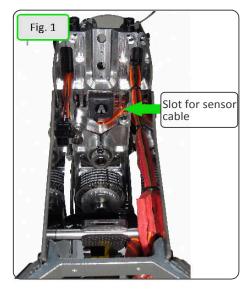




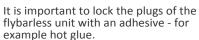


FLYBARLESS CONTROL UNIT AND RX INSTALLATION

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.

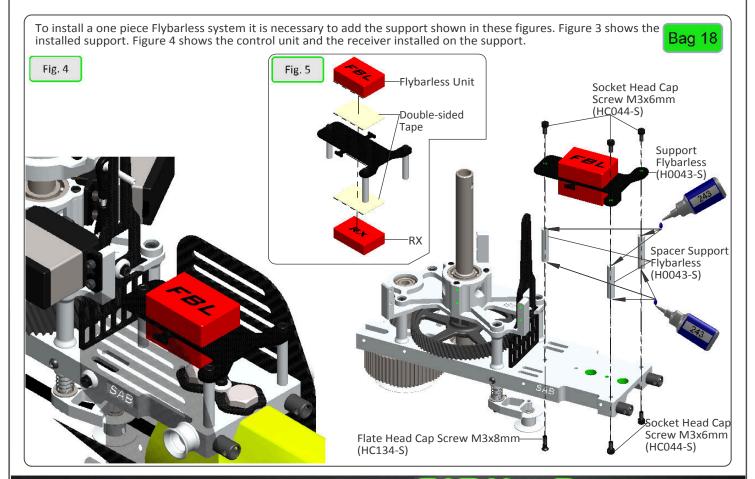








Tail servo extension cable





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

						Rev:01
Performace	Battery	Motor	ESC	Pinion	RPM Max (Gov)	Pitch
GENERAL	12S 5000/5500	Kontrionik 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	20Т	1950	± 12,5
		Scorpion HK 4525-520	Edge 160 HV	20Т	1950	± 12,5
			Jive 120 HV YGE 160 HV KOSMIK 160/200	19T	1950	± 12,5
GENERAL and 3D	14S 5000 mAh	Kontrionik Pyro 850-40L	YGE 160 HV KOSMIK 160/200	22Т/23Т	2000/2100	± 12,5
		Quantum 4530-450 Scorpion HK 4530-450	YGE 160 HV KOSMIK 160/200	20Т/21Т	2000/2100	± 12,5
		Kontrionik Pyro 800-48	YGE 160 HV KOSMIK 160/200	19T/20T	2000/2100	± 12,5
4						I

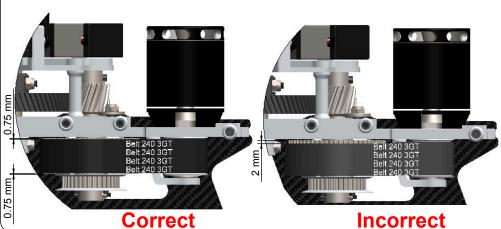
Note: Although the Goblin can fly at high rpm, for safety reasons we suggest to not exceed 2000 rpm.

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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.



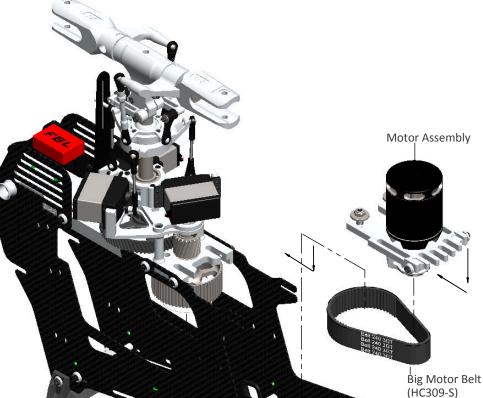
Note:

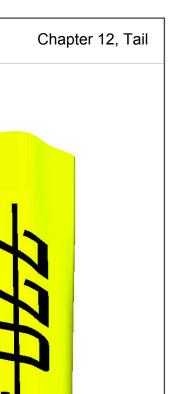
Check for vertical alignment of the motor pulley. To do this, simply turn the motor several time and check to you see if the belt is aligned with the big pulley (one way bearing pulley). If the belt is riding too high, simply loosen up the motor pulley and drop it just a little bit, if it is riding too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

Fig 1:

Figure 1 shows the motor correctly wired. It is advisable to cover the wire joints between the motor and the ESC with heat shrink tubing.



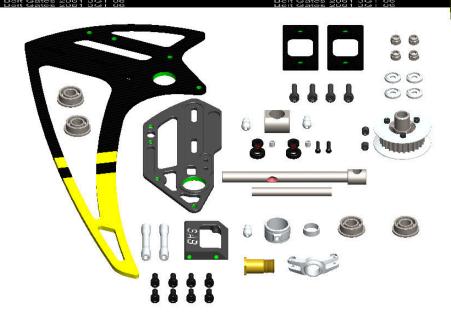


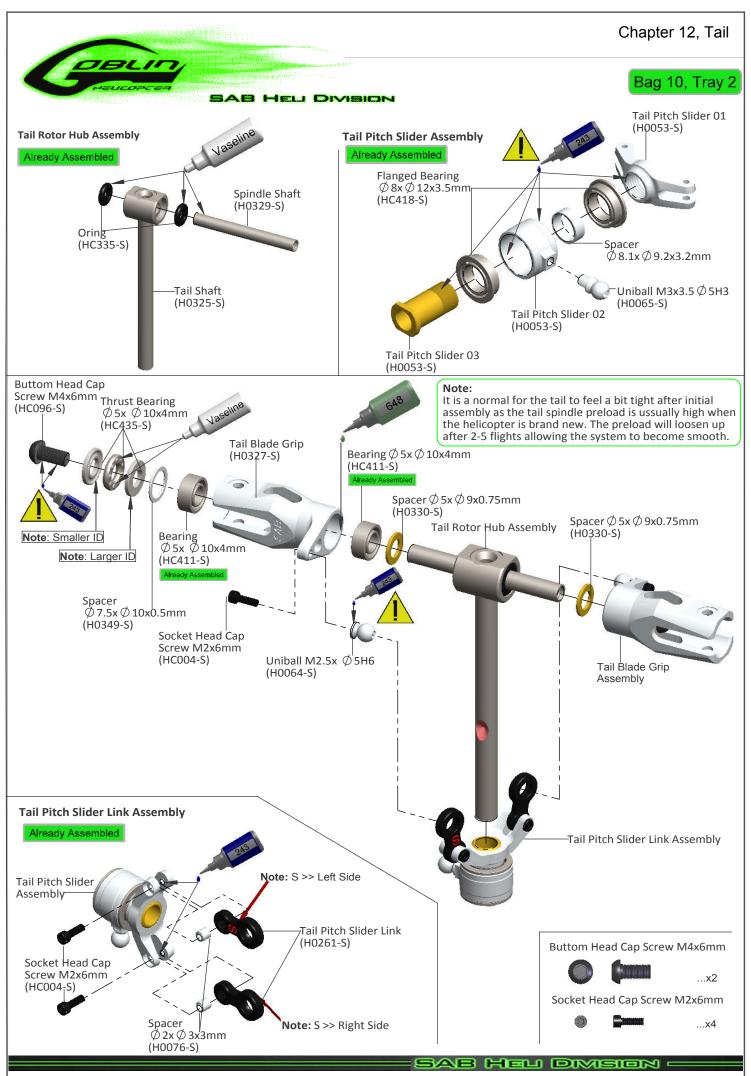


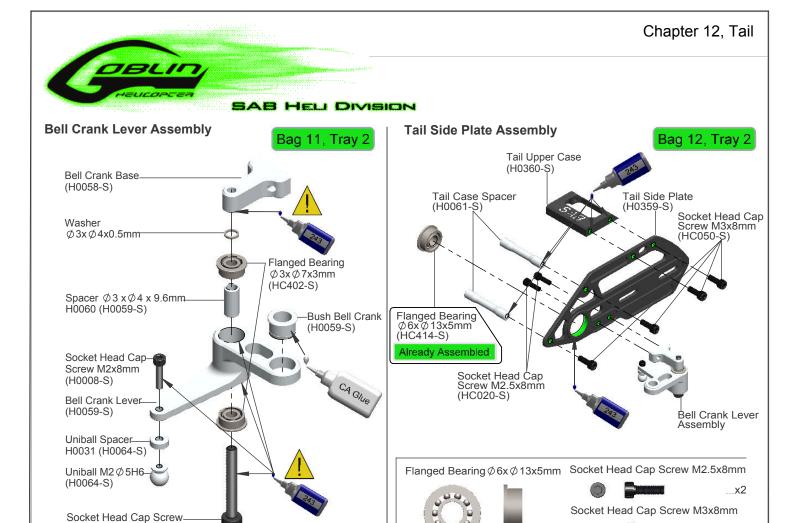
7-Boom and Tail

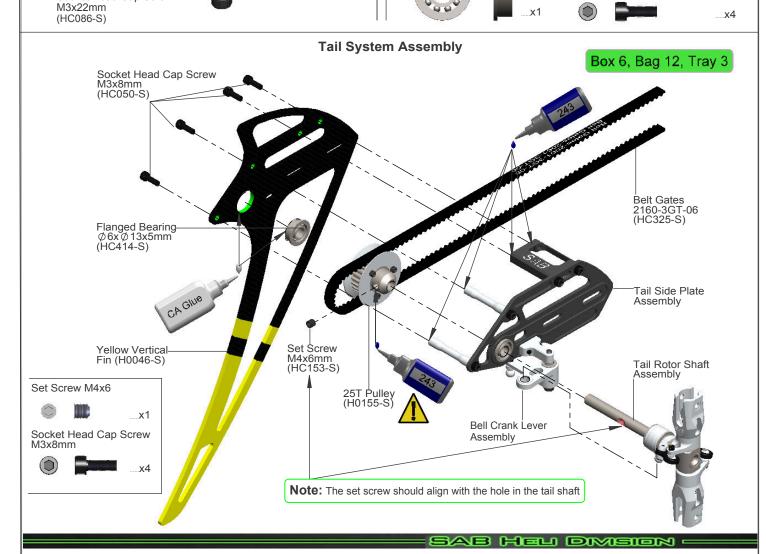


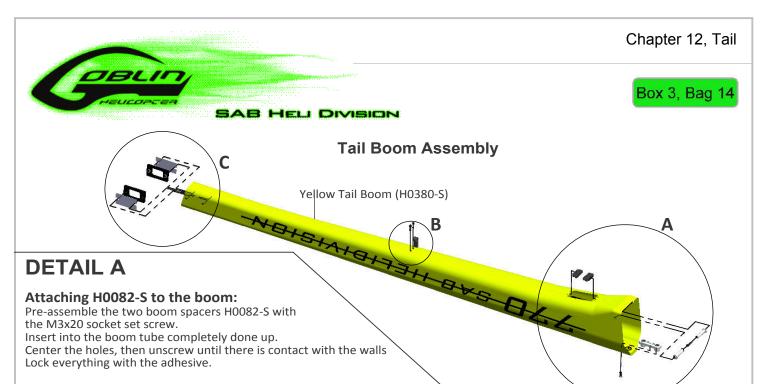
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Assemble H0040-S in the boom:

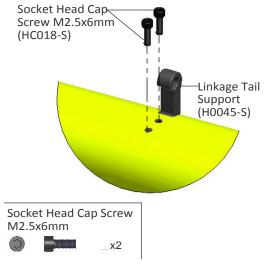
Before assembling the two parts in the boom we suggest tightening the M2.5 screws into the two plastic parts to pre-thread them. In this way when you will assemble the tail servo it will be easier to tighten the screws into the plastic parts. Check the tail servo can fit, if necessary carefully sand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

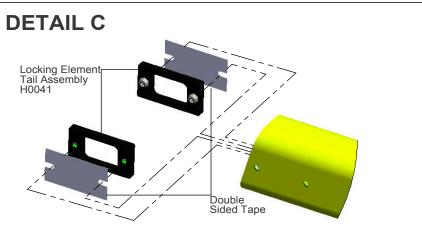
Tail Servo Lock (H0040-S) **Block Nut** (H0358-S) Set Screw M3x20mm Set Screw M3x20mm (HC150-S) Flat Head Cap Screw Flat Head Cap M3x8mm Screws M3x8mm Boom Spacer (HC134-S) (H0082-S) ...x1

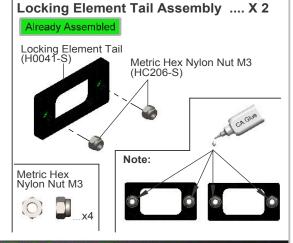
DETAIL B

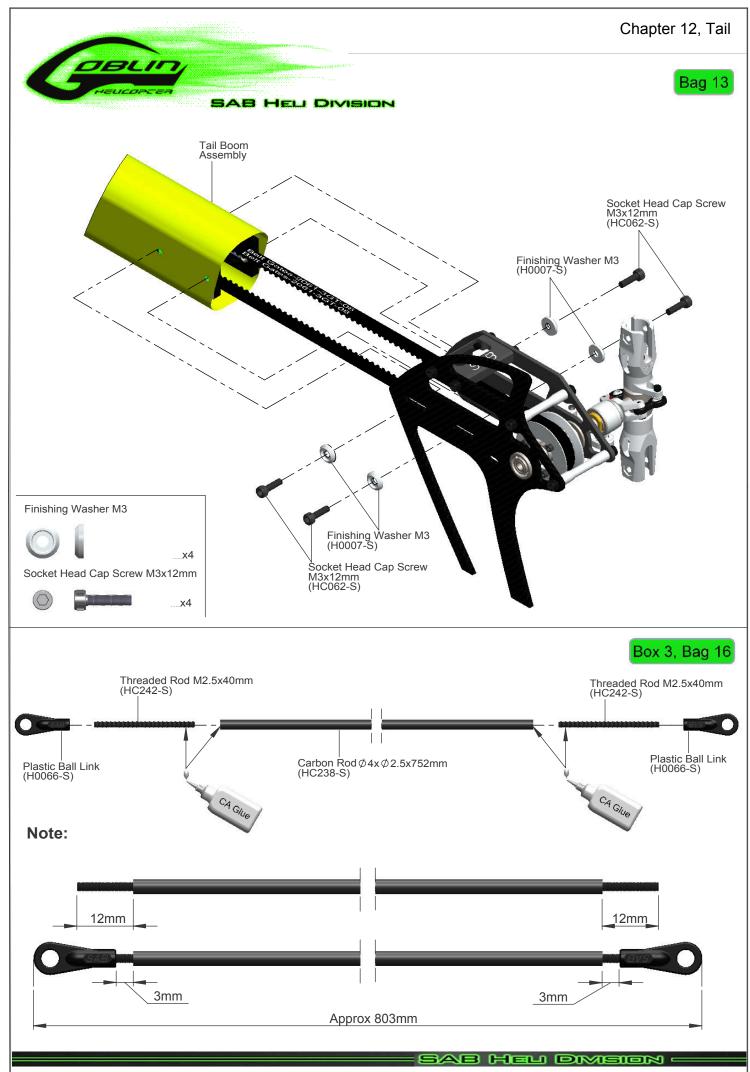
Assemble H0045-S in the boom:

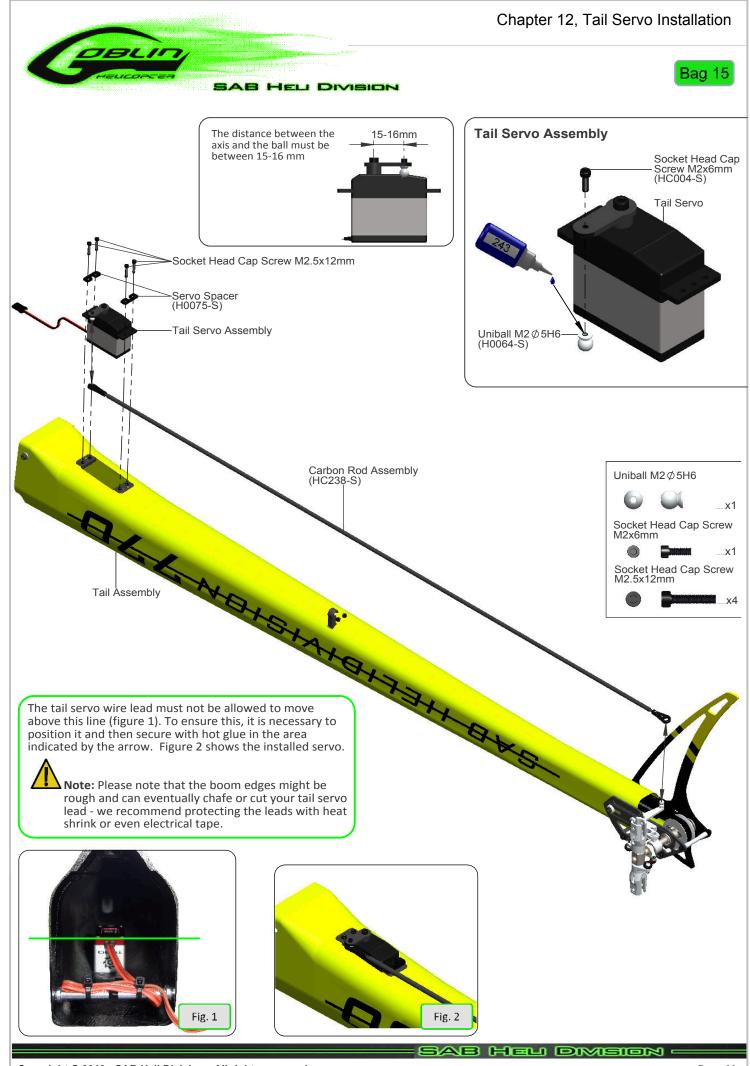
Before mounting H0045 on the boom we suggest to first tighten the M2.5 screws into the holes to thread them. In this way when you assemble the part it will be easier to tighten the screws.







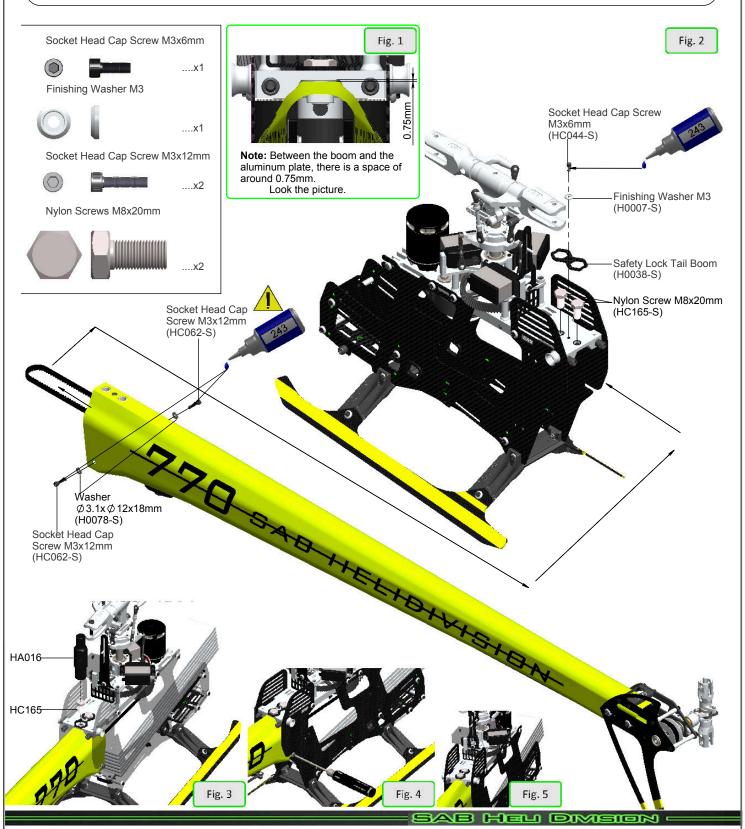




Bag 17

BOOM ASSEMBLY

- *Insert the tail boom assembly .
- *Lock the M8 nuts with the HA016 special tool supplied (Tray 2).
- *Firmly lock the lateral srews 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.



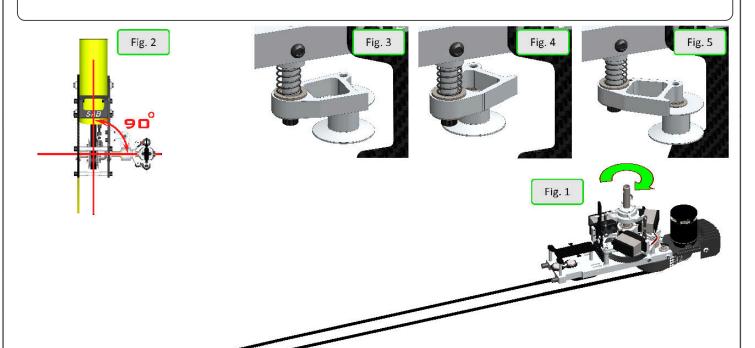


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TAIL BELT TENSION

- *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.

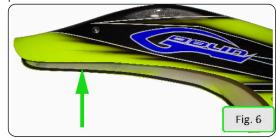
NOTE. To disassemble the tail boom it is possible to remove the pulley H0101-S without loosening the tail unit. Remove the locking screw and pull down.





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 litle bit of CA Glue



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.





AB HELI DIXISION :



Box 6, Bag 19

BATTERIES

The battery tray system in the Goblin 700 is simple, but very effective.

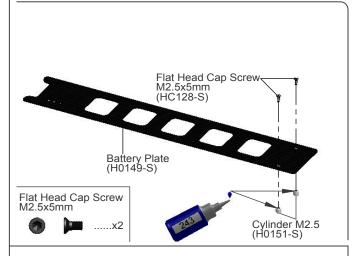
The battery should be attached to the tray (Part H0149) with heat shrink, tape or velcro.

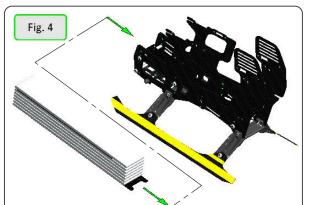
You can optionally use the battery protection tray (Part **H0151**) see **Fig. 1, 2**.

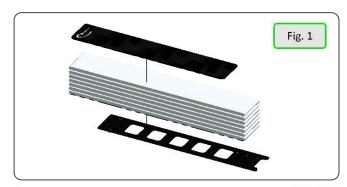
Before permanently mounting the batteries onto the battery tray, check the ideal position for the best center of gravity. Cut the heat shrink around the carbon fiber tray locking pins. Fig. 3.

Battery Pack:

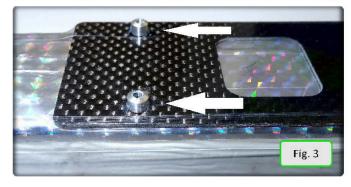
Slide the tray until it locks into the CNC stopper. **Fig. 4, 5**. Using the velcro straps, making sure that the two locking pins are stopped against the frame spacer (Part1#**H0003** and #**H0151**) **Fig.6, 7**.

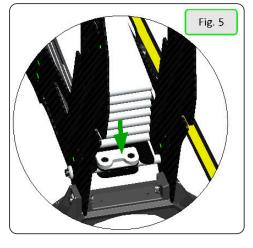


















Bag 21



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.

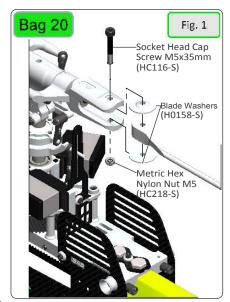


- *Be sure of the gear ratio, verifying carefully the motor pulley in use. The forces acting on the mechanics increase enormously with increasing of rpm. Although the Goblin can fly at high rpm, for safety reasons we suggest to not exceed 2000 rpm.
- *Check the correct tension of the tail belt through 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.

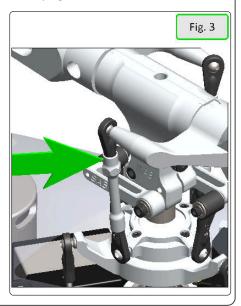


*Perform the first flight at a low headspeed, 1500/1600 RPM.

After this first flight, do a general check of the helicopter. Verify that all screws are correctly tightened.







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 sacriticing 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.

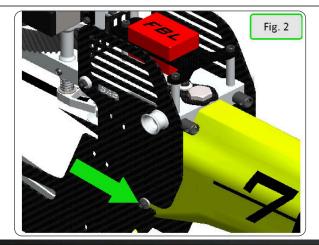
MAINTENANCE

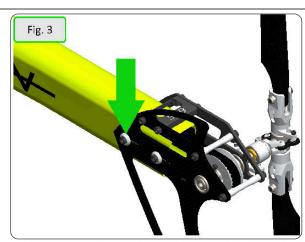
*On the Goblin, areas to look for wear include:

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

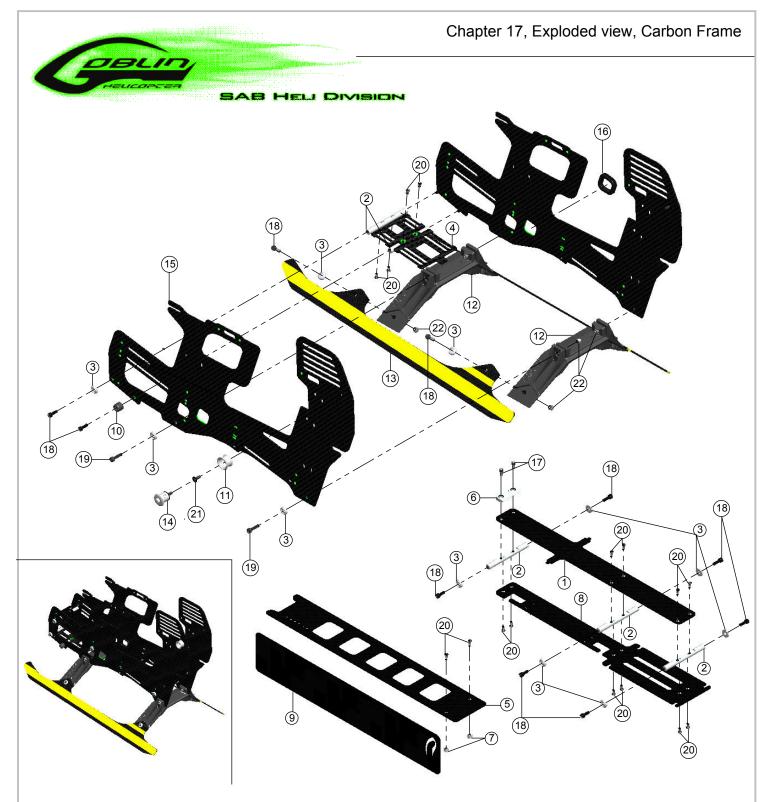
The lifespan of these components varies according to the type of flying. On average it is recommended to replace these special parts every **100** flights.

- *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.





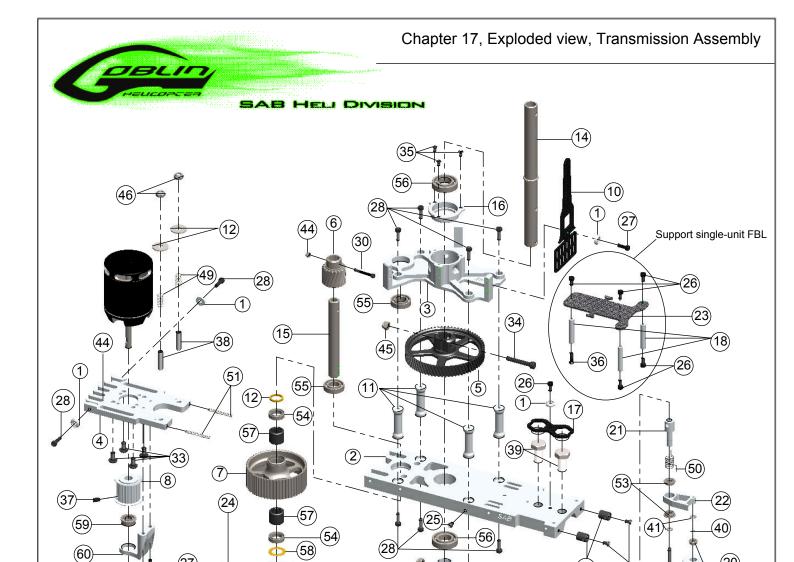
SAB HELI DIVISION



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

SAB HELI DIMISION



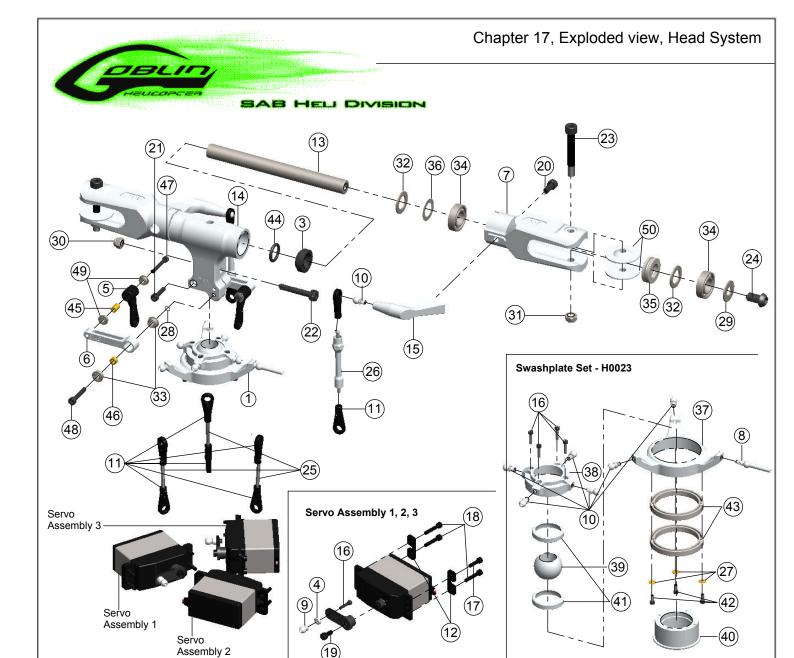
(31)

(13)

	TRANSMISSION ASSEMBLY					
POS	COD	Name	Name Specification			
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	Ø 10 x Ø 13 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 Shouldereds	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		

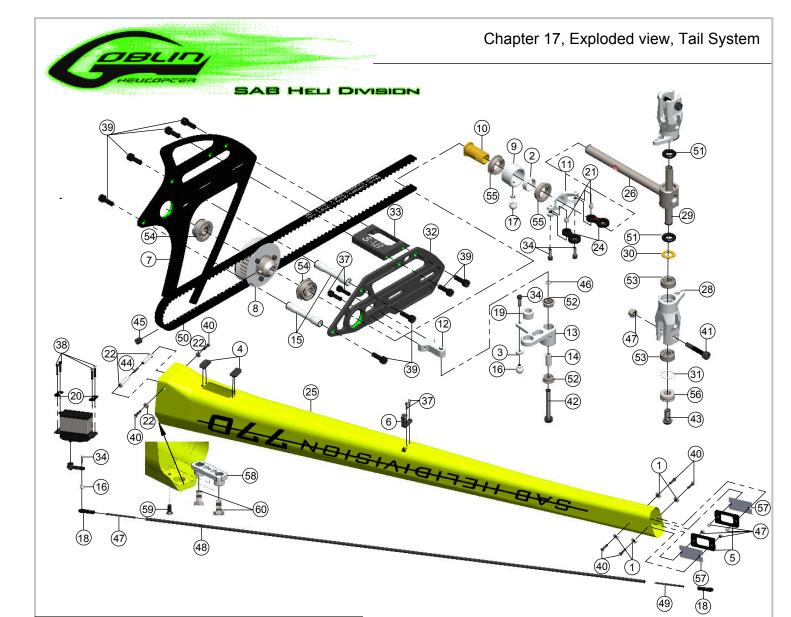
TRANSMISSION ASSEMBLY					
POS	COD	Name	Specification	Quantity	
31	HC104	Socket Head Cap Screw	M4 x 22mm	1	
32	HC091	Socket Head Cap Shoudered	M4 x 40mm	1	
33	HC098	Button Head Cap Screws	M4 x 8mm	4	
34	HC111	Socket Head Cap Screw	M4 x 24mm	1	
35	HC128	Flat Head Cap Screws	M2.5 x 5mm	3	
36	HC134	Flat 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 Ø 15 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	Ø 10 x Ø 15 x 4mm	2	
55	HC422	Bearings	Ø 10 x Ø 19 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	

(32)



		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 Ø 5 H18	1	
9	H0064	Uniballs	M2.5 Ø 5 H6	3	
10	H0065	Uniballs	M3 x 4 Ø 5 H3	8	
11	H0066	Plastic Ball Linkages	Plastic		
12	H0075	Servo Spacers	Carbon Fiber		
13	H0079	Spindle	Carbon Steel	1	
14	H0135	Center Hub Aluminum		1	
15	H0183	Blade Grip Arms	Aluminum		
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 12		2	
22	HC111	Socket Head Cap Screw Shouldered M4 x 24		1	
23	HC116	HC116 Socket Head Cap Screw Shouldereds M5 x 35ml		2	

Head System					
POS	COD	Name	Name Specification		
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 Ø 14 x 1.5mm	2	
30	HC212	Metric Hex Nylon Nut	M4 H5	1	
31	HC218	Metric Hex Nylon Nuts	M5 H4.8		
32	HC230	Washers	Ø10 x Ø16 x 1mm	4	
33	HC402	Flanged Bearings	Ø3 x Ø7 x 3mm	4	
34	HC422	Bearings Ø 10 x Ø 19 x 5mm		4	
35	HC438	Thrust Bearings Ø 10 x Ø 18 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		
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 Ø 9.2 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 Ø 5H6	2	
17	H0065	Uniballs	M3 x 4 Ø 5 H3	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 bushs	Aluminum	2	
22	H0078	Washers	Ø3.1 x Ø 12 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 Ø5xØ9x0.75mm	2	

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 M3.2 x 2mm 4 39 HC050 Socket Head Cap Screws M3 x 12mm 6 40 HC062 Socket Head Cap Screws M3 x 12mm 6 41 HC079 Socket Head Cap Screws Shoudered M3 x 18mm 2 42 HC086 Socket Head Cap Screws M3 x 22mm 1 43 HC096 Button Head Cap Screws M4 x 6mm 2	TAIL SYSTEM					
31 H0349 Washer Spacer Ø 7.5x Ø 10x0.5mm 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 M2.5 x 6mm 6 36 HC018 Socket Head Cap Screws M2.5 x 8mm 2 38 HC020 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 M3 x 12mm 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	POS	COD Name		Specification	Quantity	
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 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 M3 x 12mm 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 M4 x 6mm 2 44 HC150 Set Screws M4 x 6mm 1 45 HC153 Set Screws M4 x 6mm 1 46 HC176 Washer 1 1 47 HC2	31	H0349	Washer	Spacer Ø7.5x Ø10x0.5mm		
34 HC004 Socket Head Cap Screws M2 x 8mm 1 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 M3 x 8mm 4 39 HC050 Socket Head Cap Screws M3 x 12mm 6 40 HC062 Socket Head Cap Screws M3 x 12mm 6 41 HC079 Socket Head Cap Screws M3 x 12mm 6 41 HC079 Socket Head Cap Screws M3 x 22mm 1 42 HC086 Socket Head Cap Screws M4 x 6mm 2 44 HC150 Set Screws M4 x 6mm 2 44 HC155 Set Screws M4 x 6mm 1 45 HC176 Washer 1 47 HC206 Metric Hex Nylon Nuts M3 6 48 HC238	32	H0359	Tail Side Plate	Aluminum	1	
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 M3 x 12mm 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 M4 x 6mm 2 44 HC150 Set Screws M4 x 6mm 1 45 HC153 Set Screws M4 x 6mm 1 46 HC176 Washer 1 1 47 HC206 Metric Hex Nylon Nuts M3 6 48 H	33	H0360	Tail Upper Case	Aluminum	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 M3 x 8mm 4 39 HC050 Socket Head Cap Screws M3 x 12mm 6 40 HC062 Socket Head Cap Screws M3 x 12mm 6 41 HC079 Socket Head Cap Screws Shoudered 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 M4 x 6mm 1 45 HC153 Set Screws M4 x 6mm 1 46 HC176 Washer 1 1 47 HC206 Metric Hex Nylon Nuts M3 6 48 HC238 Carbon Rod 1 1 49 HC242 Threaded Rods M2.5 x 40mm 2 50 HC325<	34	HC004	Socket Head Cap Screws	M2 x 6mm	3	
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 Shoudered 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 M4 x 6mm 1 45 HC153 Set Screws M4 x 6mm 1 46 HC176 Washer 1 1 47 HC206 Metric Hex Nylon Nuts M3 6 48 HC238 Carbon Rod 1 1 49 HC242 Threaded Rods M2.5 x 40mm 2 50 HC325 Belt Gates 1 1 51 HC335 Or	35	HC008	Socket Head Cap Screws	M2 x 8mm	1	
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 Shoudered 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 1 47 HC206 Metric Hex Nylon Nuts M3 6 48 HC238 Carbon Rod 1 1 49 HC242 Threaded Rods M2.5 x 40mm 2 50 HC325 Belt Gates 1 1 51 HC335 Oring Rubber 2 52 HC402 Flanged Bearings	36	HC018	Socket Head Cap Screws	M2.5 x 6mm	6	
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 Shoudered 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 M4 x 6mm 1 45 HC153 Set Screws M4 x 6mm 1 46 HC176 Washer 1 1 47 HC206 Metric Hex Nylon Nuts M3 6 48 HC238 Carbon Rod 1 1 49 HC242 Threaded Rods M2.5 x 40mm 2 50 HC325 Belt Gates 1 1 51 HC335 Oring Rubber 2 52 HC402 Flanged Bearings Ø3 x Ø7 x 3mm 2 53 HC411 Bearings	37	HC020	Socket Head Cap Screws	M2.5 x 8mm	2	
40 HC062 Socket Head Cap Screws M3 x 12mm 6 41 HC079 Socket Head Cap Screws Shoudered 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 1 47 HC206 Metric Hex Nylon Nuts M3 6 48 HC238 Carbon Rod 1 1 49 HC242 Threaded Rods M2.5 x 40mm 2 50 HC325 Belt Gates 1 1 51 HC335 Oring Rubber 2 52 HC402 Flanged Bearings Ø3 x Ø7 x 3mm 2 53 HC411 Bearings Ø5x Ø 10x4mm 4 54 HC414 Flanged Bearings Ø	38	HC026	Socket Head Cap Screws	M2.5 x 12mm	4	
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·	58	H0358	Block Nut		1	
60 HC165 Nylon Screw M8x20mm 2	59	HC134	Flat Head Cap Screws M3x8mm		1	
	60	HC165	Nylon Screw M8x20mm		2	



Battery Tray [H0002-S]



Frame Spacer [H0003-S]



- 3 x Frame Spacers. - 10 x Finishing Washers M3.

Finishing Washer M3 [H0007-S]



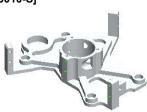
1 x Main Structure.

Main Structure [H0009-S]



Servo Support [H0010-S]

M2.5x5mm.



1 x Servo Support.

Column [H0018-S]



4 x Columns.

Swashplate [H0023-S]



- 1 x Swashplate Assembly.
- 2 x Bearings 30x Ø 37x4mm.
- 4 x Uniballs M3x4 Ø 5 H3.
- 1 x Uniball M3x4 Ø 5 H18. - 3 x Socket Head Cap Screws M2x5mm.
- 4 x Socket Head Cap Screws M2x8mm.

Bearing Support [H0024-S]



- 1 x Bearing Support.
- 1 x Bearing Ø12x Ø24x6mm.
- 3 x Flat Head Cap Screws M2.5x5mm.

Safety Lock Tail Boom [H0038-S]



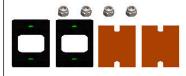
- 1 x Safety Lock Tail Boom. 1 x Finishing Washer M3. 1 x Socket Head Cap Screw M3x8mm.

Tail Servo Lock [H0040-S]



- 2 x Tail Servo Locks.2 x Servo Spacers.4 x Socket Head Cap Screws
 - M2 5x12mm

Locking Element Tail [H0041-S]



- 2 x Locking Element Tails.4 x Metric Hex Nylon Nuts M3.2 x Double Sided Tapes.

Spacer Flybarless [H0043-S]



- 3 x Spacer Flybarless. 1 x Supporto Flybarless. 1 x Flat Head Cap Screw M3x8mm. 5 x Socket Head Cap Screws M3x6mm.

Linkage Tail Support [H0045-S]



1 x Linkage Tail Support.
 2 x Socket Head Cap Screws M2.5x6mm.

Yellow Vertical Fin [H0046-S]



- 1 x Yellow Vertical Fin.
 2 x Socket Head Cap Screws M3x12mm.
 2 x Finishing Washers M3.

Antenna Guide [H0050-S]



- 2 x Antenna Guide. - 2 x Button Head Cap Screws M3x4mm.

Tail Pitch Slider [H0053-S]



- 1 x Tail Pitch Slider 01.1 x Tail Pitch Slider 02.1 x Tail Pitch Slider 03.

- 1 x Tall Pitch Sider 03. 1 x Spacer Ø8x Ø9x3.2mm. 1 x Uniball M3x4 Ø5H3. 2 x Flanged Bearings Ø8x Ø12x3.5mm

Bell Crank Base [H0058-S]



- 1 x Bell Crank Base.

Bell Crank Lever [H0059-S]



- 1 x Bell Crank Lever. 1 x Bush Bell Crank. 1 x Washer Ø3x Ø4x0.5mm. 1 x Spacer Ø3x Ø4x9.6mm. 1 x Socket Head Cap Screw
- M3x22mm. 2 x Flanged Bearings \emptyset 3x \emptyset 7x3mm.

Tail Case Spacer [H0061-S]



- 2 x Tail Case Spacers. x Socket Head Cap Screws M3x8mm.

Uniball M3x4 Ø 5H18 [H0063-S]



- 1 x Uniball M3x4 Ø 5H18.

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Uniball M2 Ø 5H6 [H0064-S]

- 5 x Uniballs M2 Ø 5H6.
- 5 x Uniball Spacers.
 5 x Socket Head Cap
- Screws M2x8mm. 5 x Socket Head Cap Screws M2x6mm.

Uniball M3x4 Ø 5H3 [H0065-S]



- 5 x Uniballs M3x4 Ø5H3.5.

Plastic Ball Link [H0066-S]



10 x Plastic Ball Link.

Servo Spacer [H0075-S]



-10 x Servo Spacers.

ESC Support [H0088-S]

Washer \emptyset 3.1x \emptyset 12x1.8mm [H0078-S]



10 x Washers Ø3.1x Ø12x1.8mm.

Spindle [H0079-S]



- 1 x Spindle.
- 2 x Button Head Cap Screw M6x10mm. 2 x Washer Ø6xØ14x1.5mm

Boom Spacer [H0082-S]



- 2 x Boom Spacer. - 1 x Set Screw M3x20mm.

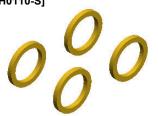
1 x ESC Support.2 x Frame Spacer.4 x Flat Head Cap Screws M2.5x5mm.

25T Tail Pulley [H0155-S]



- 1 x 25T Tail Pulley.1 x Set Screw M4x4mm.6 x Socket Head Cap Screws M2x5mm.

Bush One Way [H0110-S]



4 x Bush One Ways.

Red Vertical Fin [H0117-S]



- 1 x Red Vertical Fin.
- 2 x Socket Head Cap Screws M3x12mm.
- 2 x Finishing Washers M3.

M4 Locking Collar [H0121-S]



- 1 x M4 Locking Collar.
- 1 x Socket Head Cap Screw M4x22mm
- 1 x Metric Hex Nylon Nut M4 H5.

Main Shaft



- 1 x Main Shaft.

- 1 x M4 Locking Collar. 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

Radius Arm [H0132-S]



- -2 x Radius Arms.
- -2 x Spacer Arm Ø3x Ø5x2.7mm.
- -2 x Spacer Arm Ø 2.5x Ø 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 Ø 3x Ø 4x0.5mm.
- -2 x Flanged Bearings Ø 2.5x Ø 6x2.5mm. -2 x Flanged Bearings Ø3x Ø7x3mm.

Center Hub [H0135-S]



1 x Center Hub.

- Socket Head Cap Screw Shouldered M4x24mm
- x Metric Hex Nylon Nut M4 H5..
- Socket Head Cap Screws M3x12mm.

Bearing Support [H0142-S]



- 1 x Bearing 3° Support. 1 x Flanged Bearing Φ6x Φ13x5mm. 2 x Socket Head Cap Screws M3x8mm

Motor Mount [H0143-S]



- 1 x Bearing 3° Support.
 1 x Motor Support.
 1 x Flanged Bearing Ø6x Ø13x5mm.
- 2 x Socket Head Cap Screws M3x8mm.
- . 2 x Set Screws M5x20mm.
 . 2 x Set Screws M5x20mm.
 . 2 x Washers Ø5.3x Ø15x1mm.
 . 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.

Damper [H0144-S]



x Damper Derlin.

- -2 x Damper Derlin. -2 x Washers Ø10x Ø16x1mm. -4 x Washers Ø10x Ø16x0.2mm.
- -4 x Orings 3050.



- 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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Stop Battery Tray [H0150-S]

- 2 x Socket Head Cap Screw M2.5x8mm.
- 1 x Stop Battery Tray.

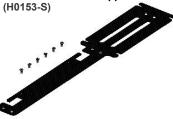
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Swashplate Anti-Rotation Guide [H0152-S]



- 1 x CF Swashplate
- Anti-Rotation Guide.
 1 x Finishing Washer M3.
 1 x Socket Head Cap Screw M3x8mm.

Carbon Fiber ESC Support (H0153-S)



- 1 x Carbon Fiber ESC Support.
- 6 x Flat Head Socket Cap M2,5x5mm.

Secondary Shaft [H0157-S]

- 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
- 1 x Metric Hex locknut Nuts M3H4.

Aluminum Blade Spacer [H0158-S]



- 4 x Aluminum Blade Spacer

Canopy Positioner [H0159-S]



2 x Canopy Positioner. - 2 x Socket Head Cap Screws M3x10mm.

Double Bearing One Way Pulley [H0171-S]



- 1 x Aluminum Double Bearing One Way Pulley.
- 3 x Shims $\sqrt[6]{10}$ x $\sqrt[6]{16}$ x0,2mm. - 1 x One Way Brass Bushing.

Aluminum Front Tail Pulley [H0172-S]



- 1 x Aluminum Front Tail Pulley.
- 1 x Socket Head Cap M2.5x19mm.
- 1 x Metric Hex Nylon Nuts M2,5H3,5.

Belt Tensioner Support [H0174-S]



- 1 x Column Belt Tensioner.
- 1 x Tail Belt Idler.1 x Belt Tensioner Arm.
- 1 x Belt Tensioner Arm.
 2 x Flanged Bearings Ø3xØ7x3mm.
 2 x Flanged Bearings Ø5xØ9x3mm.
 1 x Socket Head Cap Screw M3x50mm.
 1 x Washer Ø3xØ4x0.5mm.
 1 x Socket Head Cap Screw M3x12mm.
 2 x Washers Ø3.2xØ6x0.5mm.
 1 x Button Head Cap Screw M3x4mm.
 1 x Spring De8/df0.5/LL8.

18T Pulley [H0175-18-S]



- 1 x 18T Pulley. 1 x Set Screws M4x4mm.

19T Pulley [H0175-19-S]



- 1 x 19T Pulley. 1 x Set Screws M4x4mm.

20T Pulley [H0175-20-S]



- 1 x 20T Pulley. - 1 x Set Screws M4x4mm.

21T Pulley [H0175-21-S]



- 2 x Button Head Socket Cap M4x10mm.

- 1 x 21T Pulley. 1 x Set Screws M4x4mm.

22T Pulley [H0175-22-S]



- 1 x 22T Pulley. 1 x Set Screws M4x4mm.

23T Pulley [H0175-23-S]



Blade Grip Arm [H0183-S]

- 1 x 23T Pulley. - 1 x Set Screws M4x4mm.

24T Pulley [H0175-24-S]



- 1 x 24T Pulley. - 1 x Set Screws M4x4mm.

Blade Grip [H0182-S]



- 2 x Blade Grip Arm.2 x Socket Head Cap Screw
- M4x10mm. 2 x Uniball M3x4 Ø5 H3.5.



Plastic Tail Linkage [H0261-S]



- 1 x Plastic Tail Linkage.
- 1 x Grip Link Bushing.
- 1 x Socket Head Cap Screws M2x6mm.

Quick Release Canopy Mount [H0319-S]



- 2 x Quick Release Canopy Assembly
- 2 x Flat Head Socket Cap M3x8mm.
- 2 x Canopy Grommets.



- 1 x 68T Main Gear1 x Socket Head Cap ScrewM4x25mm
- 1 x Metric Hex Nylon Nut M4 H5.
- 1 x Metric Hex Nyion Nut M4 H3
 1 x 19T Drive Pinion.
 1 x Socket Head Cap Screw Shouldered M3x22mm.
 1 x Metric Hex Nylon Nut M3H4.



- 1 x Steel Tail Shaft Assembly.
- 1 x Tail Oring Damperner.

Aluminum Tail Blade Grip [H0327-S]



- 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.

Tail Spilde Shaft [H0329-S]



- 1 x Tail Spilde Shaft.
- 2 x Button Head Socket Cap M4x6mm.

Spacer Set For Tail Rotor [H0330-S]



- 2 x Washer Ø5xØ8.9x0,75mm.
- 2 x Washer Ø7.5xØ10x0,5mm.
- 2 x Tail Oring Damperner.

Lading Gear Plastic Support G700 [H0345-S]



- 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.

Linkage HPS V2 [H0346-S]



- 2 x Linkage HPS.
- 4 x Plastic Ball Link.
- 2 x Linkage Rod.

Main Frame [H0354-S]



- 1 x Main Frame.

Tail Boom Support [H0358-S]



- 1 x Canopy mousse.

- 1 x Canopy Edge Protection.

- 1 x Tail Boom Support.
- 1 x Nylon screw M8x20mm.
- 1 x Flat Head Socket Cap M3x8mm.

Aluminum Tail Side Plate [H0359-S]



- 1 x Aluminum Tail Side Plate.
- x Flanged bearing Ø6xØ13x5mm.

Tail Upper Case [H0360-S]



- 1 x Tail Upper Case.
- 4 x Socket Head Cap Screws M3x8mm

- 1 x Canopy mousse.

- 1 x Canopy Edge Protection.

Canopy Yellow/Orange

Yellow Tail Boom [H0380-S]

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- 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



Canopy Yellow/Blue



[H0381-S]



- - 2 x Canopy Grommet.
 - 1 x Canopy mousse.
 - 1 x Canopy Edge Protection.







5 x Socket Head Cap Screws M2x5mm.





-5 x Socket Head Cap Screws M2x6mm.

[HC008-S]



-5 x Socket Head Cap Screws M2x8mm.

[HC010-S]



-5 x Socket Head Cap Screws M2x10mm.

[HC018-S]



- 5 x Socket Head Cap Screws M2.5x6mm

[HC020-S]



-5 x Socket Head Cap Screws M2.5x8mm.

[HC026-S]



- 5 x Socket Head Cap Screw M2.5x12mm.

[HC033-S]



4 x Socket Head Cap shouder M2.5x19mm.
 4 x Metrix Hex Nylon Nut M2.5.

[HC038-S]



- 5 x Button Head Cap Screws M3x4mm. [HC044-S]



- 5 x Socket Head Cap Screws M3x6mm.

[HC050-S]



- 5 x Socket Head Cap Screws M3x8mm.

[HC056-S]



5 x Socket Head Cap Screws M3x10mm.

[HC062-S]



5 x Socket Head Cap Screws M3x12mm

[HC068-S]



5 x Socket Head Cap Screws M3x16mm.

[HC079-S]



5 x Socket Head Cap Shouder M3x18mm

[HC086-S]



-5 x Socket Head Cap Screws M3x22mm.

[HC091-S]



2 x Socket Head Cap Shouldereds M3x40mm

[HC096-S]



5 x Buttom Head Cap Screws M4x6mm.

[HC098-S]



5 x Button Head Cap Screws M4x8mm.

[HC100-S]



5 x Button Head Cap Screws M4x10mm

[HC102-S]

- 5 x Socket Head Cap Screws M4x10mm



5 x Socket Head Cap Screws M4x22mm.

[HC111-S]



- 2 x Socket Head Cap Shouder M5x30mm - 2 x Metrix Hex Nut M5. [HC116-S]



- 2 x Socket Head Cap Shouder M5x35mm - 2 x Metrix Hex Nut M5.

[HC122-S]



- 5 x Button Head Cap Screws M6x10mm.

[HC128-S]



5 x Flat Head Cap Screws M2.5x5mm.

[HC134-S]



- 5 x Flat Head Cap Screws M3x8mm.

[HC140-S]



- 5 x Cup Poin Set Screws M2.5x20mm.

[HC150-S]



- 5 x Cup Poin Set Screws M3x20mm.

[HC152-S]



- 5 x Cup Poin Set Screws M4x4mm.

[HC153-S]



- 5 x Cup Poin Set Screws M4x6mm.



- 10 x Washer Ø2,2xØ5x0,3mm.

[HC176-S]



- 5 x Washer Ø3xØ4x0,5mm.

[HC180-S]



- 10 x Washer Ø3.3xØ6x0,5mm. [HC188-S]



- 5 x Washer Ø5.3xØ15x1mm. [HC194-S]



- 5 x Washer Ø6.3xØ15x1mm.



[HC200-S] - 10 x Metric Hex Nylon Nuts M2,5H3,5. [HC230-S]



- 5 x Shims Ø10xØ16x1mm.

[HC206-S]



10 x Metric Hex Nylon Nuts M3H4.

[HC212-S]

- 10 x Metric Hex Nylon Nuts M4H5.

[HC218-S]



- 5 x Metric Hex Nylon Nuts M5H4.5.

[HC242-S]



- 3 X Thread Rods M2.5 x 40mm. - 1 x Main Belt.

[HC309-S]



- 1 x Motor Belt 240-3MGT 19mm.

[HC315-S]

- 5 x Shims

[HC232-S]



Ø10xØ16x0.2mm.

- 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.

[HC335-S]

- 1 x Carbon Rod

[HC238-S]



Ø4xØ2,5x752mm.

- 2 x Thread Rod M2.5x40mm

- 2 x Plastic Ball Linkage.

- 4 x Tail Oring Damperner.

[HC400-S]



4 x Flanged Bearings Ø 2.5x Ø 6x2.6mm.

[HC402-S]



4 x Flanged Bearings Ø3x Ø7x3mm.

[HC410-S]



[HC411-S]



- 4 x Bearings Ø5x Ø10x4mm.

[HC414-S]



- 2 x Flanged Bearings Ø6x Ø13x4mm.

[HC418-S]



- 2 x Flanged Bearings Ø8x Ø12x3.5mm.

[HC420-S]



- 2 x Bearings Ø 10x Ø 15x4mm.

[HC422-S]

- 4 x Bearings Ø 10x Ø 19x5mm.

[HC426-S]



- 2 x Bearings Ø12x Ø24x6mm.

[HC430-S]



- 2 x Rad Bearings Ø30x Ø37x4mm.

[HC435-S]



- 2 x Thrust Bearings Ø5x Ø10x4mm.

[HC438-S]



- 2 x Thrust Bearings Ø 10x Ø 18x5.5mm.

[HC442-S]



- 1 x One Way Bearings Ø 10x Ø 14x12mm.

[HA001-S]



- 1 x Foam Blade Holder

[HA002-S]



- 2 x Hex Wrenches 2,5.

[HA006-S]



- 1 x Canopy Mousse.

[HA010-S]



- 2 x Cable Pass

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[HA016-S]

[HA024-S]

2 x Wrench Tool M8,M6. - 4 x O-ring 3050.

[HA025-S]



2 x Velcro Battery Strap.

[HA026-S]



- 8 x Heat Shrink - Clear

[HA112-S]



- 1 x Rubber Canopy Edge Protection

[BW2770-S]



2 x Main Blade

[BW5110-S]



UPGRADES and ACCESSORIES

New Heavy-Duty Tail Pulley 24T [H0154-S]

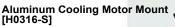


1 x New Heavy-Duty Tail Pulley 24T

Aluminum ESC Heat Sink [H0165-S]



- x Aluminum ESC Heat Sink.
- x Socket Head Cap M3x6mm. - 4
- x Cup Point Set Screws M3X20mm. - 4 - 12 x Washer Ø3,3xØ6x0,5mm.
- 4 x Metric hex locknut Nuts M3H4.





- 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 Socket Head Cap Screw M3x10mm. 2 x Spring 3 / 0.5 / LL 12.

SAB HELIDIVISION Futaba Servo Horn [HA050]



- 1 x Plastic Servo Horn.

SAB HELIDIVISION JR Servo Horn [HA050]



- 4 x JR Servo Horn.

SAB HELI DIVISION New Black T-shirt [HM025-S-M-L-XL-XXL]



- SAB HELI DIVISION New Black T-shirt.

SAB HELI DIVISION Black Polo Shirt [HM027-S-M-L-XL-XXL]



- SAB HELI DIVISION Black Polo Shirt.

SAB HELI DIVISION Black Hoodies [HM029-S-M-L-XL-XXL]



- SAB HELI DIVISION Black Hoodies.

SAB HELI DIVISION Neck Strap [HM034]



- 1 x Neck Strap.

SAB HELI DIVISION Decal



- 1 x SAB HELI DIVISION Decal (set).

SAB HELI DIVISION Keychain

[HM037]



- 1 x SAB HELI DIVISION Keychain.



- 1 x SAB HELI DIVISION Stand (Set).

SAB HELI DIVISION

