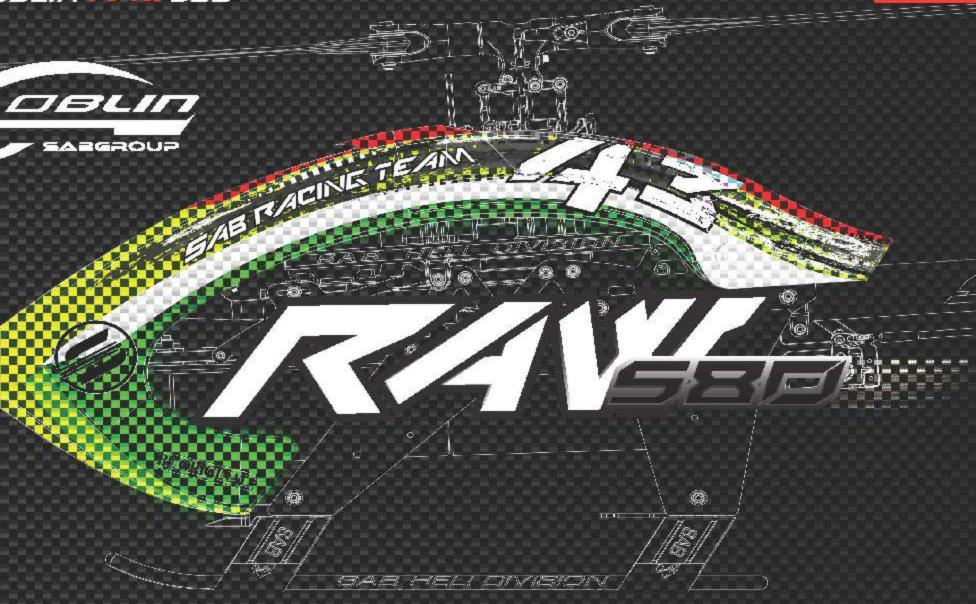
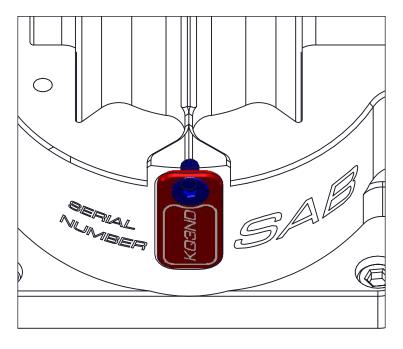
GOBLIN KAW 580







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

You will find your serial number on the RED plate of the transmission module and on the product card included with your kit.

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 any issues with your model and will not provide support unless you register your model.

The Serial number is also engraved in the Aluminum part.

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

SAB Heli Division

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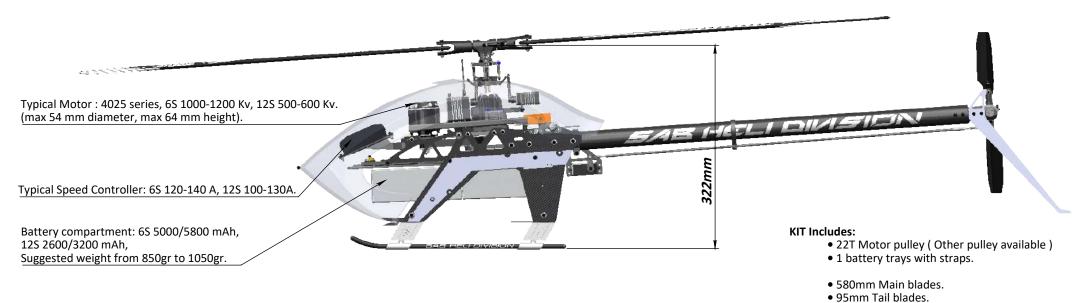
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- 2 IMPORTANT NOTES
- 3 NOTE FOR ASSEMBLY
- 4 CARBON ROD ASSEMBLY
- 5 TRANSMISSION GROUP ASSEMBLY
- 6 SWASHPLATE SERVOS ASSEMBLY
- 7 FRAME GROUP ASSEMBLY
- 8 HEAD ASSEMBLY

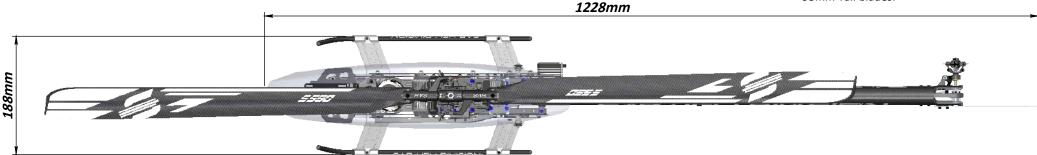
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GOBLIN RAW 580 TECHNICAL SPECIFICATIONS





- AIRFRAME weight: 1740gr (with blades, no battery, no electronics).
- Main rotor diameter: 1290 mm (with 580 mm blades).
- Main blade length: 550 to 600 mm.
- Tail rotor diameter: 260 mm (with 95 mm tail blades).
- Tail blade length: 95 to 105 mm.

- Cyclic Servos: Mini size 35 mm (Standard size 40mm option).
- Tail Servo: Standard size 40mm.
- Main Rotor Ratio: 11.51 to 8.63:1 (22T included: 9.42:1).
- Tail Rotor Ratio : 5.3-4.9:1 (23T included: 4.9:1).

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.

DAMAGE LIMITS

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

LIMITED WARRANTY

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

- (a) This warranty is limited to the original Purchaser ("Purchaser") and is not transferable. REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER This warranty covers only those Products purchased from an authorized SAB Heli Division dealer. Third party transactions are not covered by this warranty. Proof of purchase is required for warranty claims.
- (b) Limitations- SAB HELI DIVISION MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NONIFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCT. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.
- (c) Purchaser Remedy- SAB Heli Division's sole obligation hereunder shall be that SAB Heli Division will, at its option, replace any Product determined by SAB Heli Division to be defective In the event of a defect, this is the Purchaser's exclusive remedy. Replacement decisions are at the sole discretion of SAB Heli Division. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance or attempted repair by anyone.

NOTE FOR ASSEMBLY

ADDITIONAL COMPONENTS REQUIRED

- *Electric Motor
- *Speed controller
- *Batteries: 6S 5000/5800 mAh, 12S 2600/3200 mAh.
- *1 flybarless 3 axis control unit
- *Radio power system.
- *3 cvclic servos
- *1 tail rotor servo
- *6 channel radio control system on 2.4 GHz

TOOLS, LUBRICANTS, ADHESIVES

- *Generic pliers.
- *Hexagonal driver, size 1.5, 2, 2.5, 3mm.
- *4/5mm T-Wrench.
- *5.5mm Socket wrench (for M3 nuts).
- *8mm Hex fork wrench (for M5 nuts).
- *Medium threadlocker (SAB p/n HA116-S).
- *Strong retaining compound (SAB p/n HA115-S).
- *Spray lubricant (eg. Try-Flow Oil).
- *Synthetic grease (eg. Microlube 261).
- *Cyanoacrylate adhesive.
- *Pitch Gauge (for set-up).
- *Soldering equipment (for motor wiring).

NOTES FOR ASSEMBLY

Please refer to this manual for assembly instructions for this model. Follow the order of assembly indicated. The instructions are divided into chapters, which are structured in a way that each step is based on the work done in the previous step. Changing the order of assembly may result in additional or unnecessary steps. Use thread lockers and retaining compounds as indicated. In general, each bolt or screw that engages with a metal part requires thread lock. It is necessary to pay attention to the symbols listed below:



Important



Indicates that for this assembly phase you need materials that are: BOX xxx, BAG xxx.





Blue screw and blue bearing

in the illustration means you

need to use:

Thread Locker Medium

Strength

(SAB HA116-S)

Use CA Glue









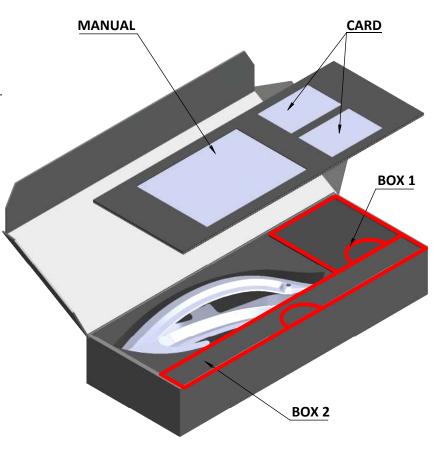
Use retaining compound

(SAB HA115-S)



Use Proper Lubricant

INSIDE THE MAIN BOX THERE ARE:

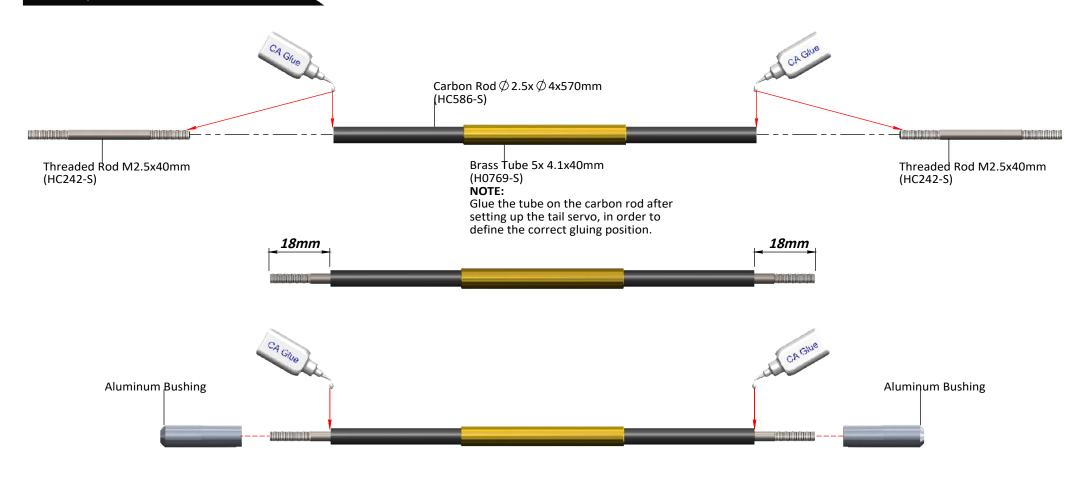


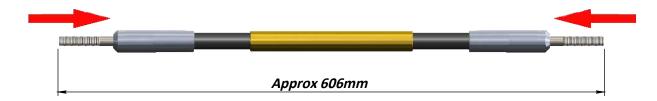
The assembly process is described in the following chapters. Each chapter provides you with the box, bag and/or foam numbers you will need for that chapter. The information is printed in a black box in the upper corner of the page.



It is suggested to arrange all the bags on a table, ordering them in a row by page number. Doing this first will make it easier to find the bags during the assembly process.





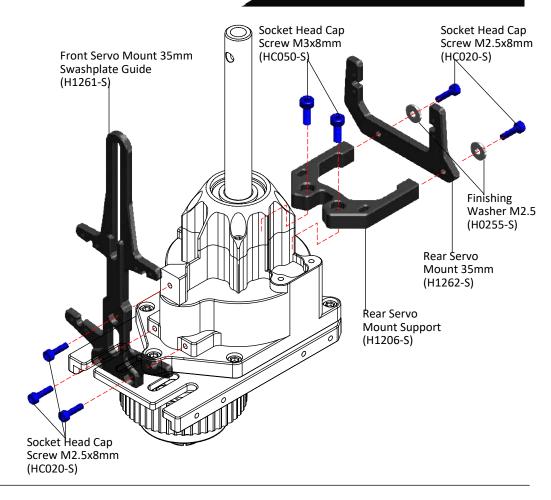


TRANSMISSION GROUP ASSEMBLY



TRANSMISSION GROUP **ASSEMBLY AND VERIFIED** The unit is ready to use Check page 39 for more information. Free Wheel Clutche **Bushing** grease HA075 -(H0110-S) Main Pulley Z50-(H1213-S) Already Assembled NOTE Shim \emptyset 10x \emptyset 16x0,1mm **DO NOT** over torque (HC234-S) the screw. Socket Head Cap Shoulder M3x18mm Front Tail Pulley Z27 (HC079-S) (H1214-S) Already Assembled

BOX 1, BAG FOR PAGE 6



STANDARD SIZE SERVOS

Standard size servos can be used [p/n H1217-S & H1207-S] (not included in the KIT)



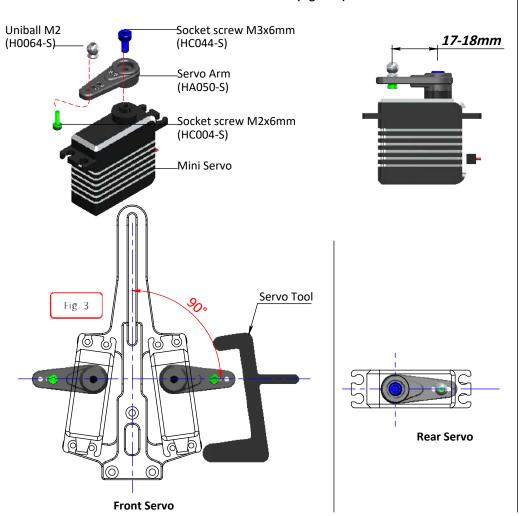


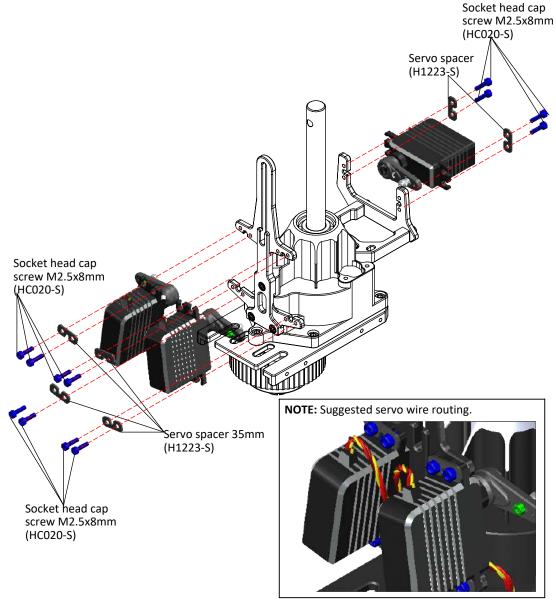
SERVO ASSEMBLY

The linkage ball must be positioned 18 mm out on the servo arm. The recommended servo arm to use is: SAB p/n [HA050/HA051].

Ensure the alignment of the servo arms (and sub trim set) before installation of the servos in the model.

Proceed with installation following the instructions below. You can use the G10 servo tool to align the front servo arms with the theoretical horizontal line. (Figure 3)





FRAME GROUP ASSEMBLY



BOX 2, BAG FOR PAGE 8

CARBON FRAME

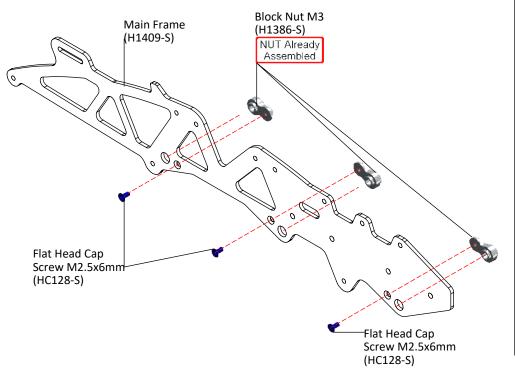


The manufacturing process of the carbon parts often leaves micro-burrs and sharp edges. We recommend de-burring the edges to minimize the risks of electrical wire cuts, etc. It is very important to do this along the red lines.

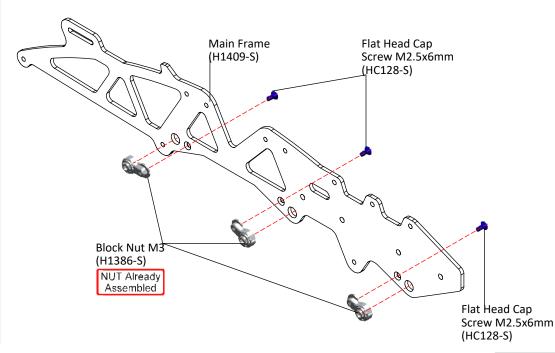




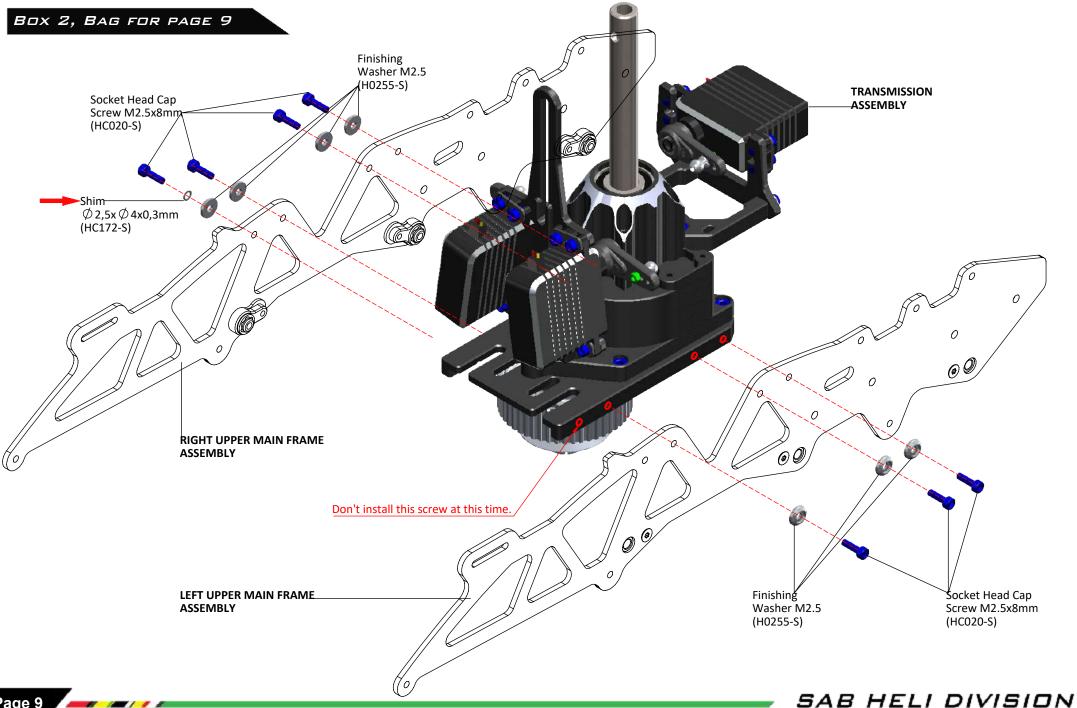
LEFT UPPER FRAME ASSEMBLY



RIGHT UPPER FRAME ASSEMBLY





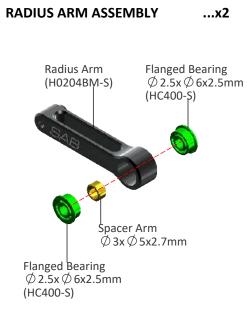


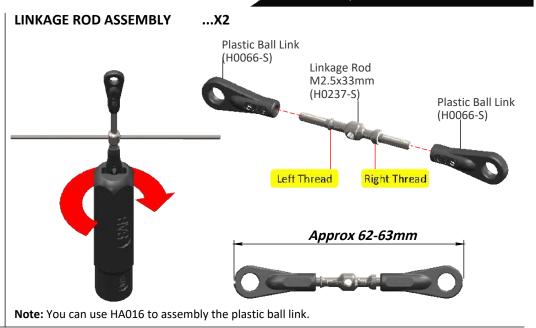
HEAD ASSEMBLY

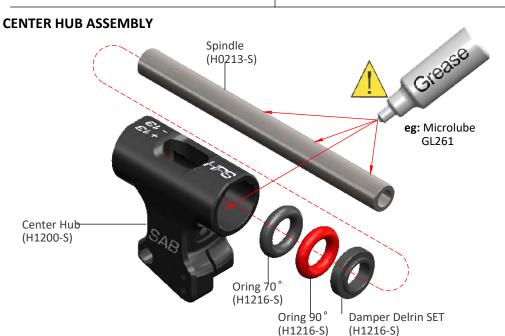


BOX 1, BAG FOR PAGE 10





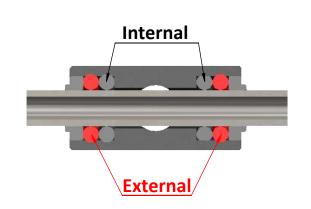


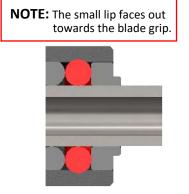


O-RING SET UP

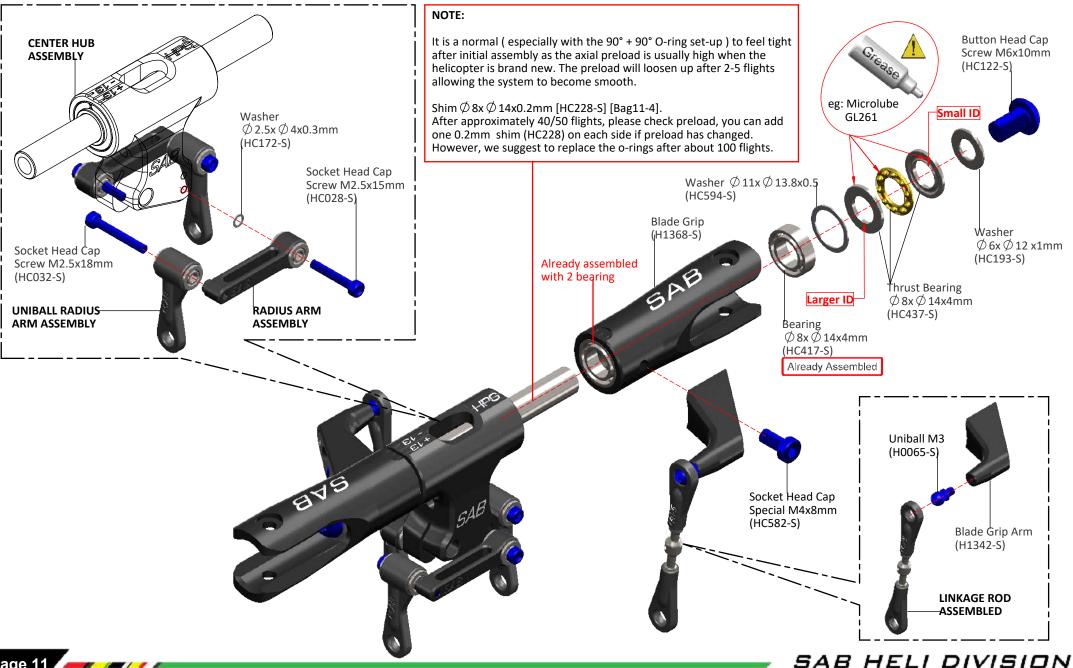
Internal =70°, External =90° Sport & 3D flight.

Internal =90°, External =90° Hard 3D.



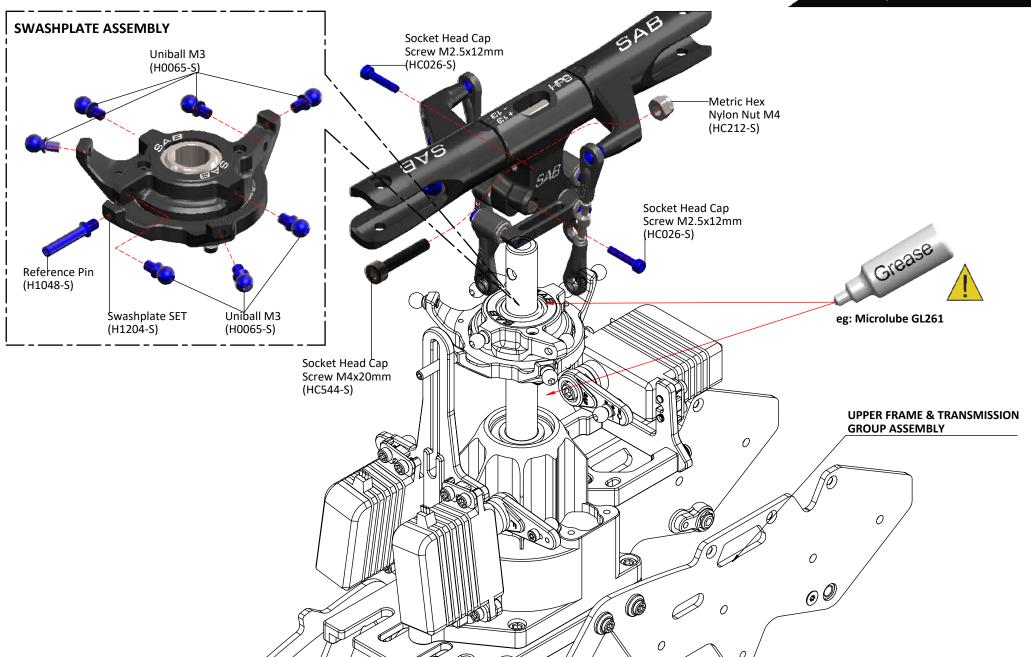




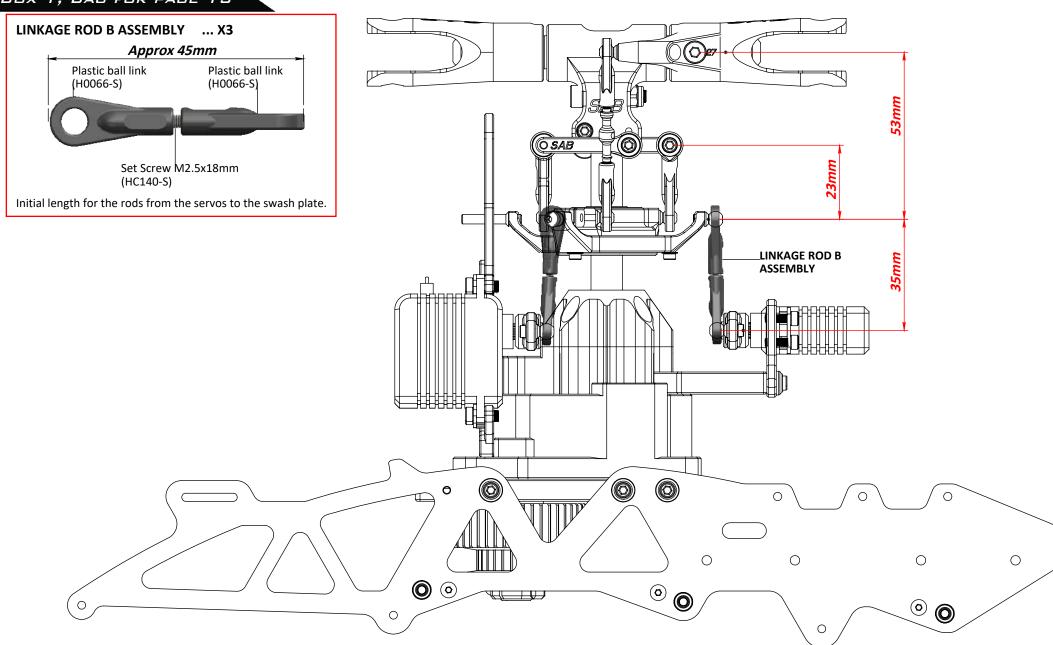


ASSEMBLING OF THE MODULES

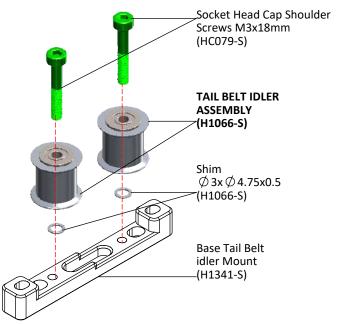




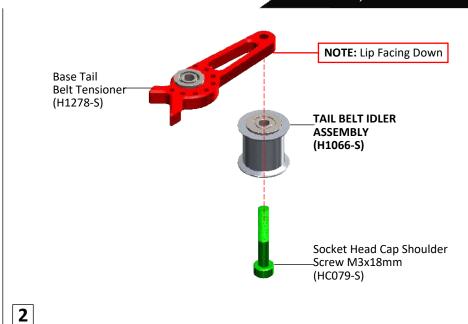




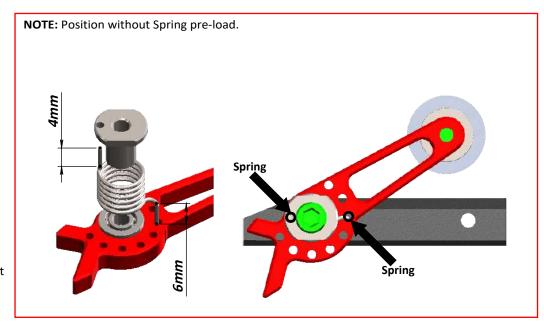




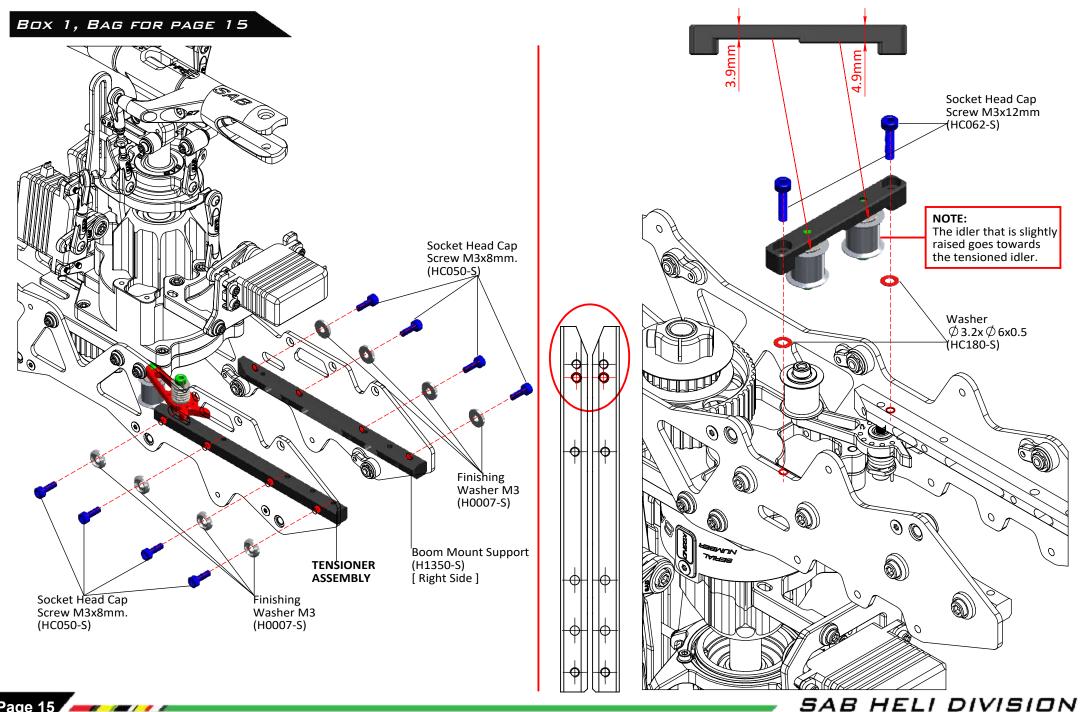
1



3 Socket Head Cap Screw M3x22mm (HC086-S) **Tensioner Column** (H1278-S) **Tensioner Spring** (H1278-S)[HC590]-**Tensioner Base** -Assembly **Tensioner Bushing** (H1278-S)-**Boom Mount Support** -(H1350-S) 00 [Left Side]







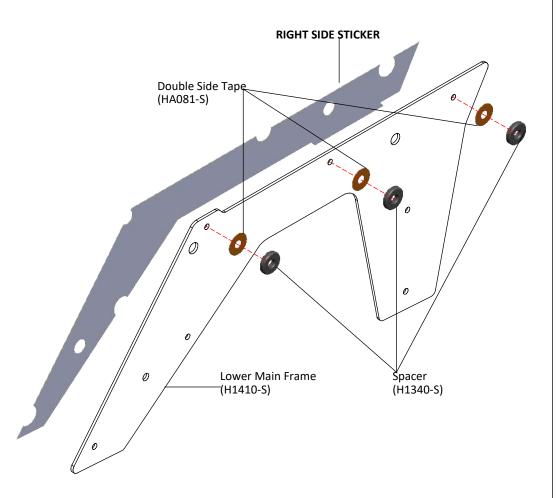
LOWER SIDE FRAME INSTALLATION



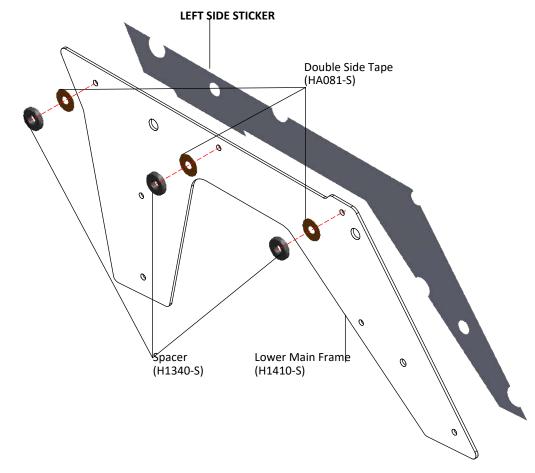
CANOPY FOAM, BAG FOR PAGE 16

LOWER SIDE FRAME ASSEMBLY

LOWER RIGHT MAIN FRAME ASSEMBLY

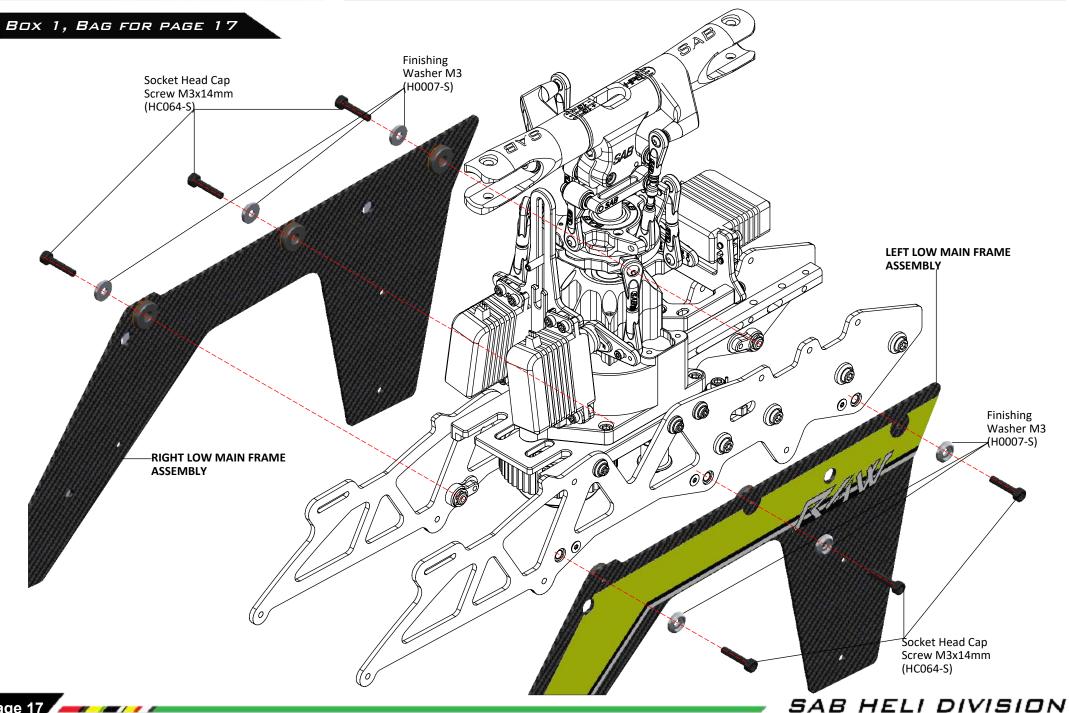


LOWER LEFT MAIN FRAME ASSEMBLY



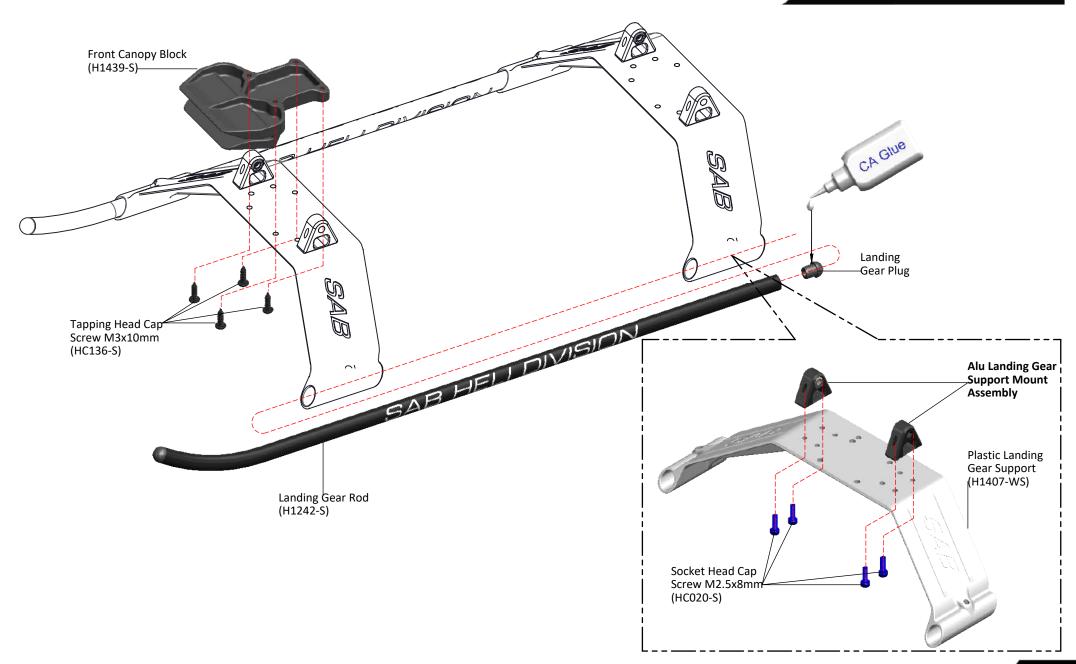




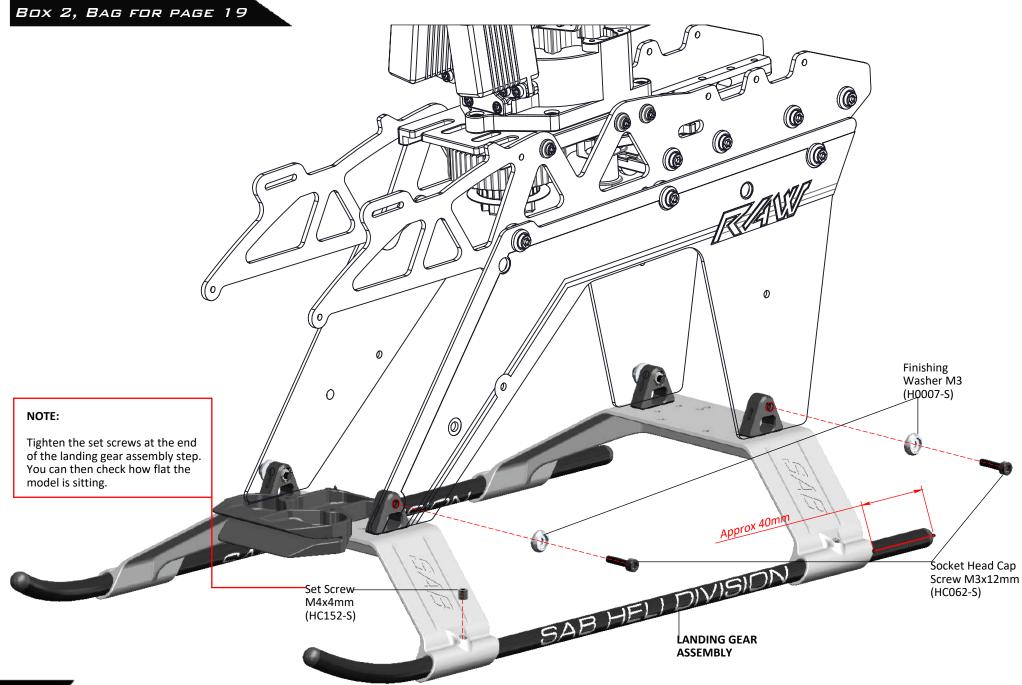


LANDING GEAR INSTALLATION









INSTALLATION OF THE MOTOR



It is important to choose the right reduction ratio to maximize efficiency based on your required flight performance. It is recommended to use wiring and connectors appropriate for the currents generated in a helicopter of this class. If you are using a head speed calculator which requires a main gear and pinion tooth count, use 207 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:

H0015-18-S - **18T** Pinion = ratio **11.5:1** H0015-20-S - **20T** Pinion = ratio **10.3:1** H0015-22-S - **22T** Pinion = ratio **9.4:1** H0015-24-S - **24T** Pinion = ratio **8.6:1**

H0015-19-S - 19T Pinion = ratio 10.9:1 H0015-21-S - 21T Pinion = ratio 9.8:1 H0015-23-S - 23T Pinion = ratio 9.0:1 H0015-25-S - 25T Pinion = ratio 8.3:1

H0015-26-S - **26T** Pinion = ratio **8.0:1**

These are pulleys for motors with a 6 mm shaft. Each pulley includes an adapter for motors with a 5 mm shaft.

GOBLIN RAW 580 CONFIGURATIONS (BLADEDS 580mm)					
BATTERY	MOTOR	ESC	Pulley (A, B)	RPM Max (A, B)	Pitch
6S-5500 mAh (5000/5500 mAh)	Kontronik Pyro 650-103 L	HW 120A V4 Scorpion Tribunus II 06-120A KOLIBRI 140 LV-I YGE 135LVT PHOENIX EDGE 130	23T / 24T	2350 / 2460	
	HKIV-4025-1100Kv (6mm)		22T / <mark>23T</mark>	2420 / 2520	± 13
	X-NOVA 4025-1120 Kv				
	EGODRIFT Tengu 4025HT/1190Kv		21T / 22T	2450 / 2550	
12S-3000 mAh (2800/3200 mAh)	HKIV-4025-520Kv (6mm)	HW 130A V4 Scorpion Tribunus 12-130A KOLIBRI 140 HV-I YGE Aureus 135 PHOENIX EDGE LITE 130	23T / <mark>24T</mark>	2550 / <mark>2650</mark>	± 13
	X-NOVA 4025-560				
	EGODRIFT Tengu 4025HS/550Kv				
	Pyro 650-62 L		21T / <mark>22T</mark>	2550 / 2650	



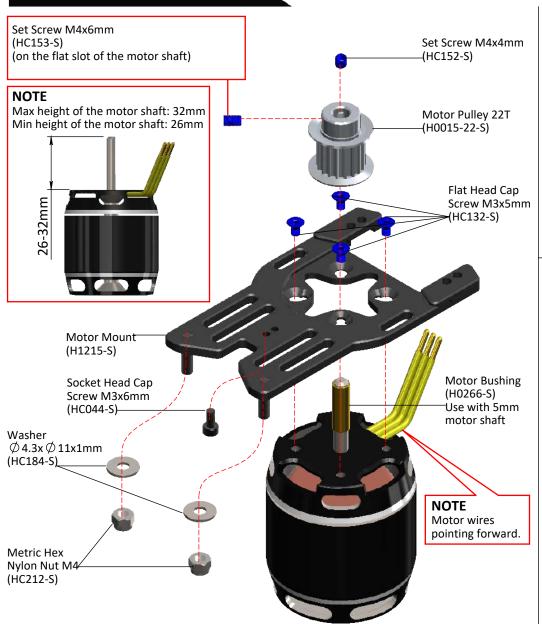
NOTE: For safety reason we recommend not exceeding 2600 RPM.

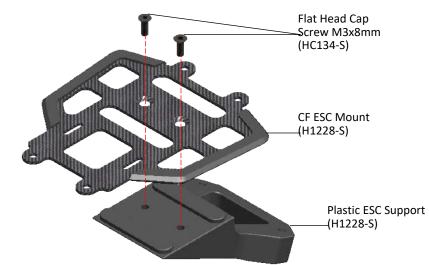
When using 600mm main blades, we recommend a reduction of about 100 RPMs. We also recommend going down one tooth on the motor pulley for better governing.

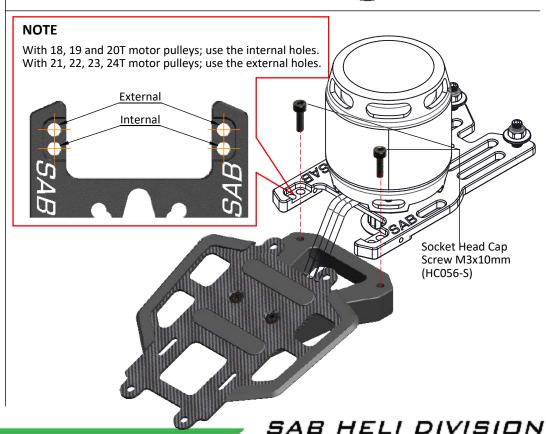


NOTE: When using 600mm main blades, we recommend not exceeding 2500 RPM for safety reasons.



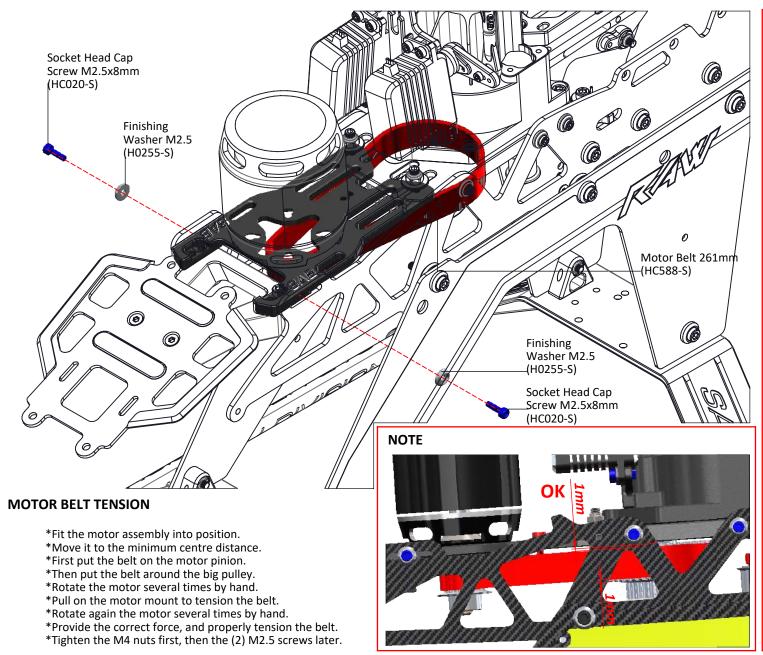


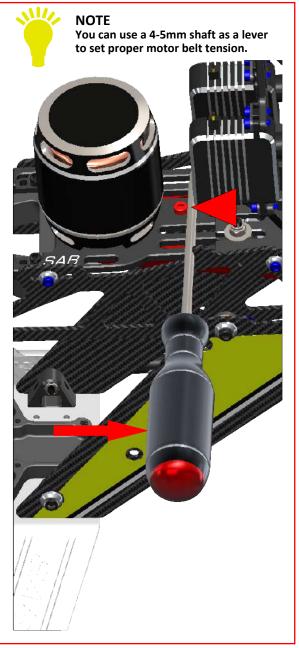




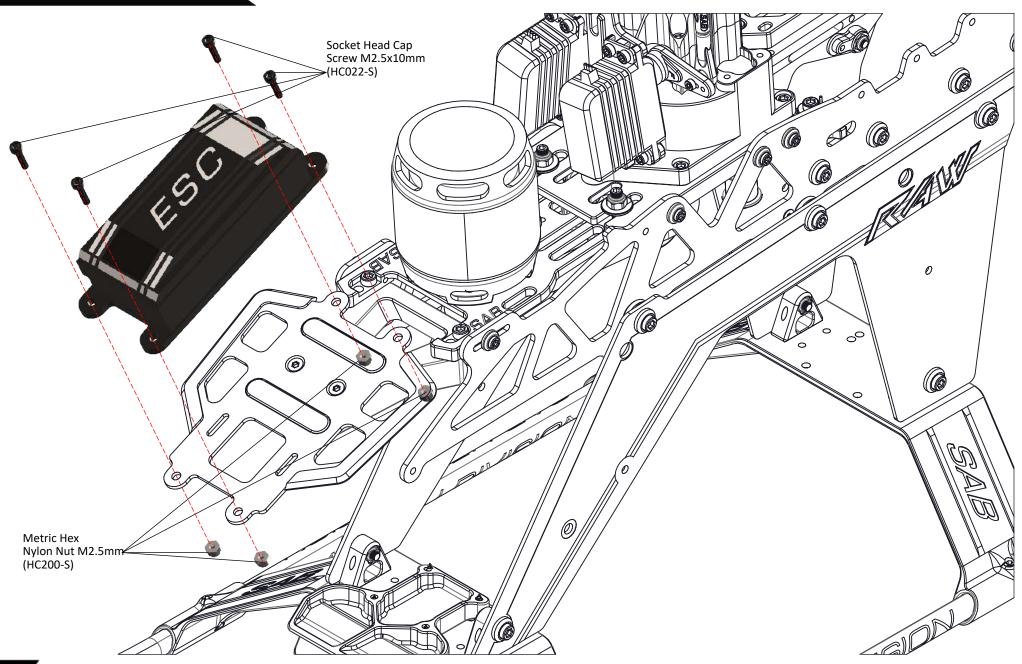
INSTALLATION OF THE MOTOR







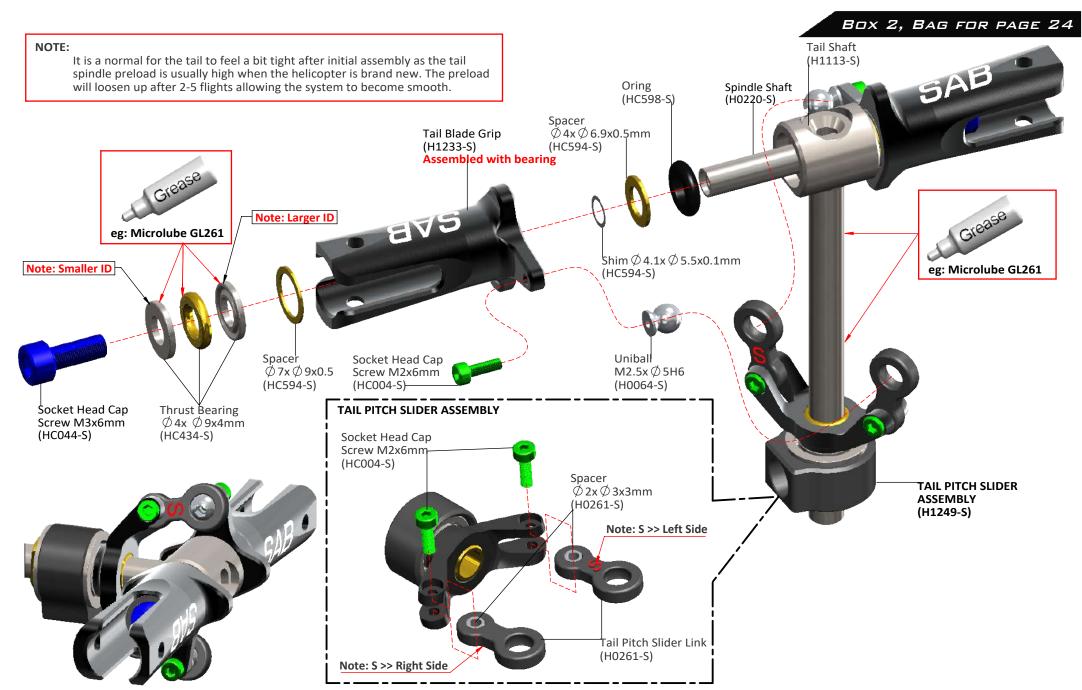




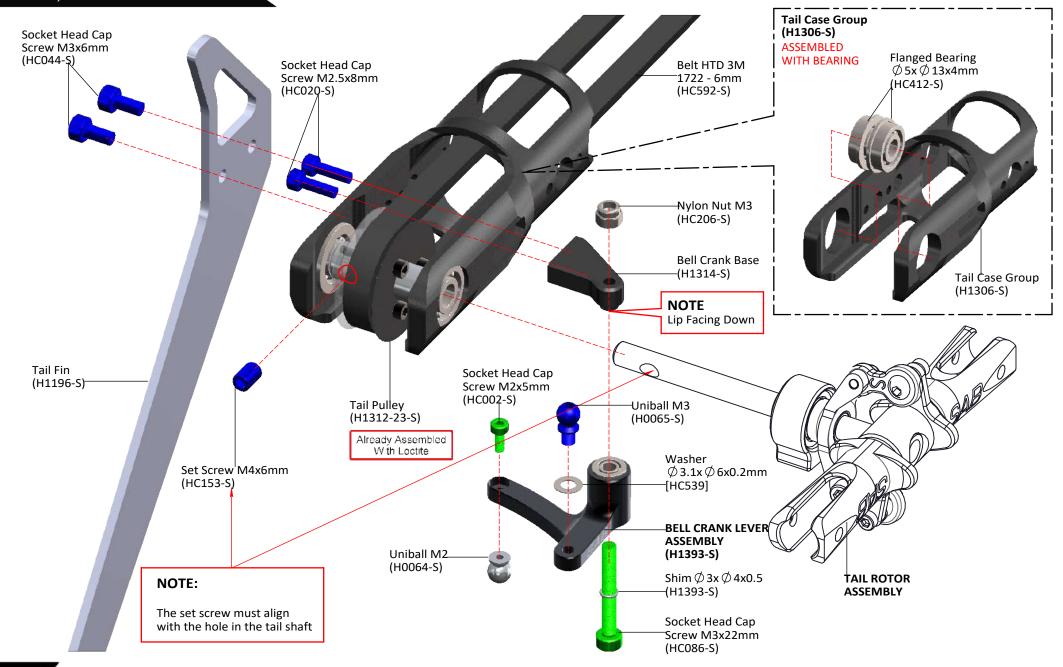
TAIL GROUP ASSEMBLY

SAB HELI DIVISION

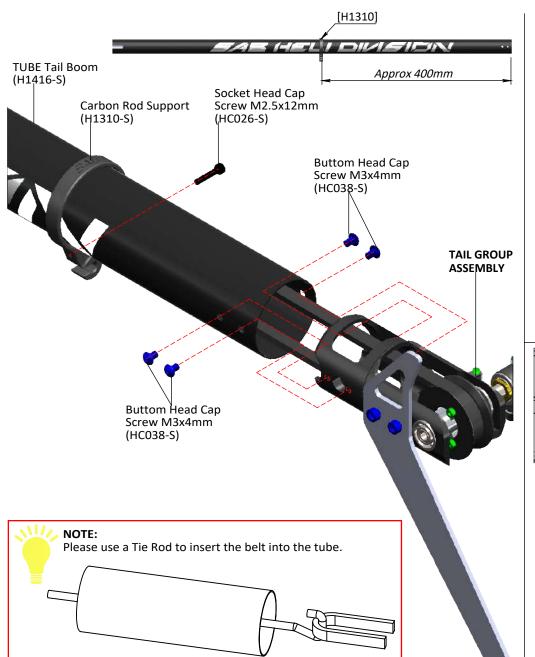


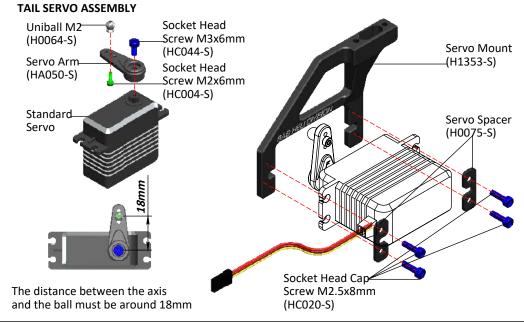


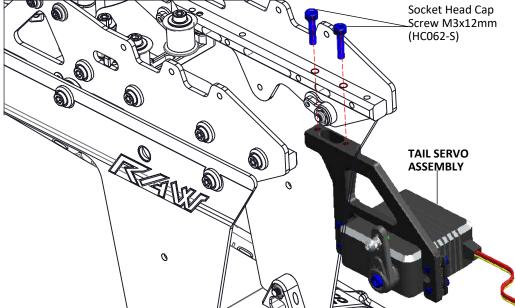




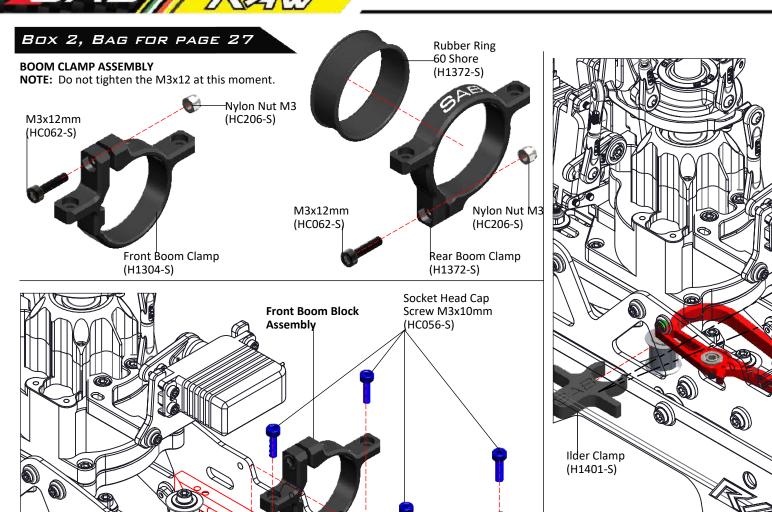




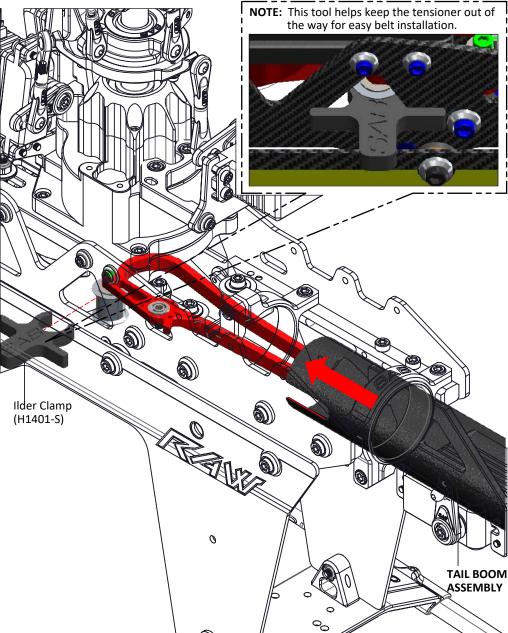








Rear Boom Block
Assembly



TAIL BOOM ASSEMBLY



TOOL KIT ASSEMBLY

BOX 2, BAG FOR PAGE 28

Set Screw M3x20 [HC150-S]

TAIL BOOM ASSEMBLY

To fit the tail belt, loosen the tail boom by loosening the 2 M3 screws (Fig.1).

- *Install the belt onto the front tail pulley, checking the direction of rotation.
- *Rotate the tail drive several times by hand.
- *Tension the tail belt by using the tool kit to slide the boom backwards. Then slowly tighten the two red screws.

How to use the tail belt tension tool:

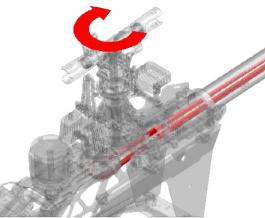
- 1. Push the plastic pad into its seat by unscrewing the orange M4x10 screw.
 2. Install the tool on the boom, it needs to touch the H1372 clamp.

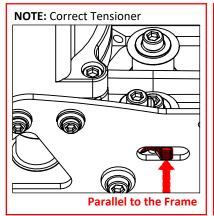
The yellow M3 set screw can be used to make sure the tool is parallel to the boom clamp.

- 3. Tighten the pink M4x10 screw to lock the tool onto the boom.
- 4. Turn the orange M4x10 screw to tension the tail belt.

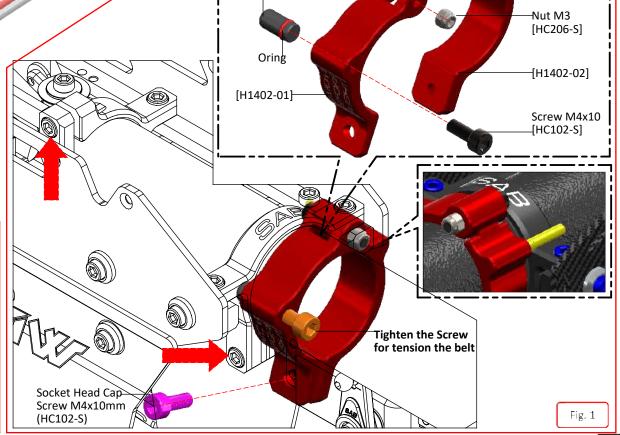
This will push the boom back, thus tightening the tail belt.

- 5. Once the correct tension is achieved, tighten the two boom clamps with the two M3 screws.
- 6. Remove the tool before flight.







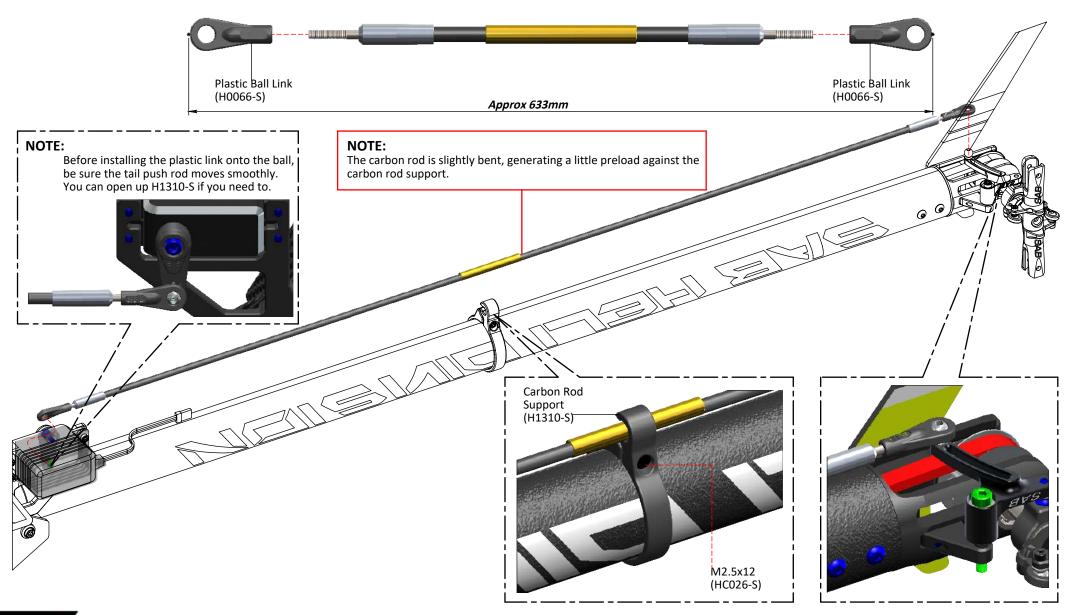


Screw M3x18 [HC079-S]

[H1402-03]

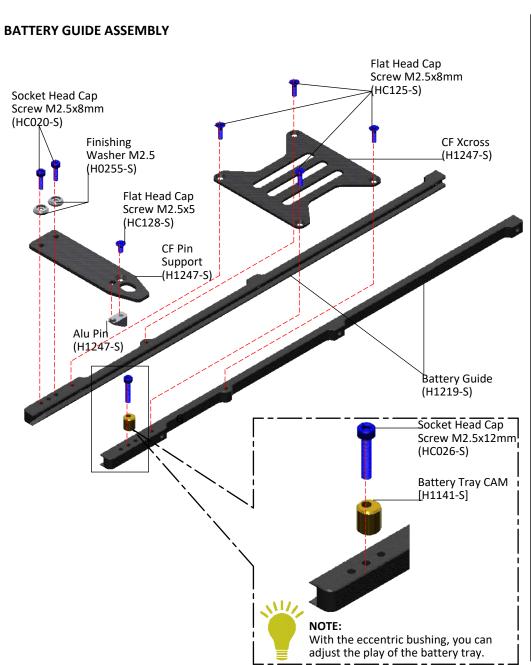


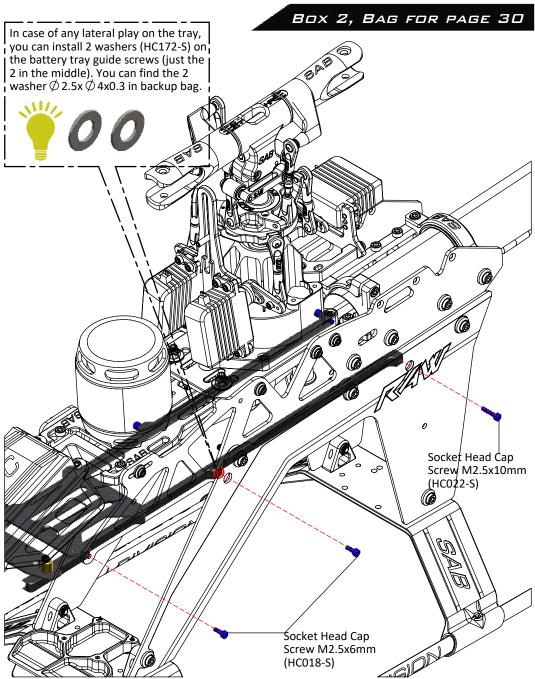
Before installing the plastic link on the threaded rod, be sure that you have waited at least 12 hours for the glue to fully cure.



BATTERY GUIDE ASSEMBLY

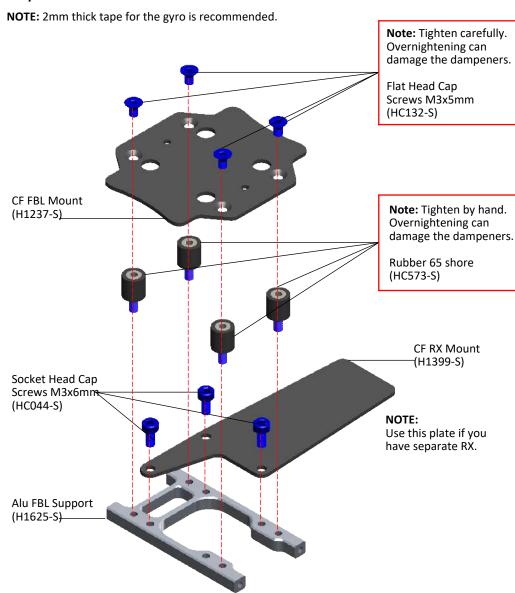






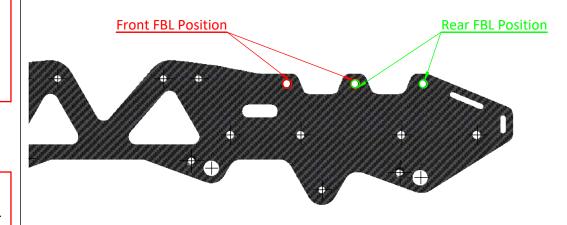


FBL/RX PLATE ASSEMBLY DAMPENERS OPTION

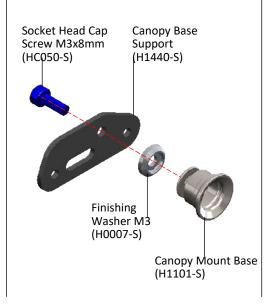


If you do not want to use the dampeners, you can setup a rigid FBL mount support using the screws and bushings supplied in bag 33-2

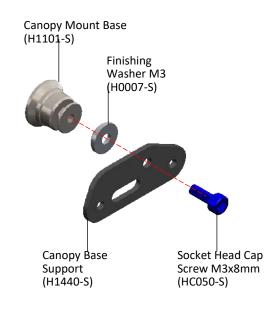
FBL POSITION



CANOPY BASE ASSEMBLY LEFT SIDE

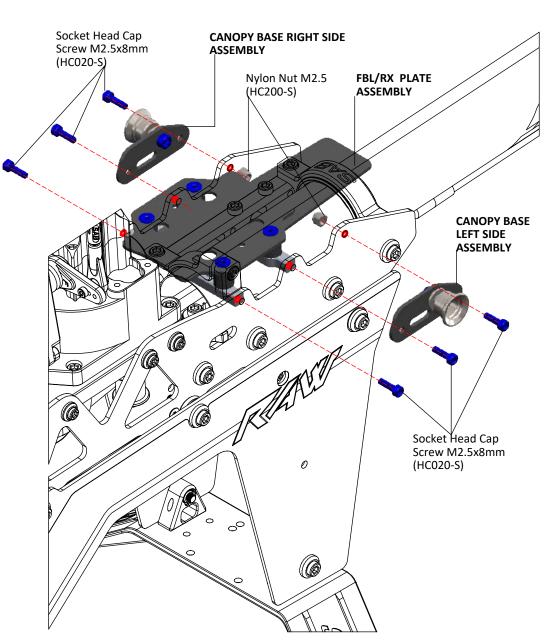


CANOPY BASE ASSEMBLY RIGHT SIDE

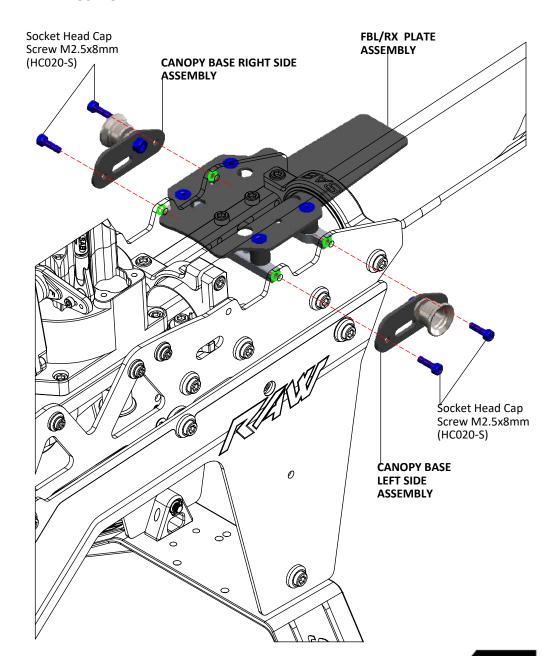




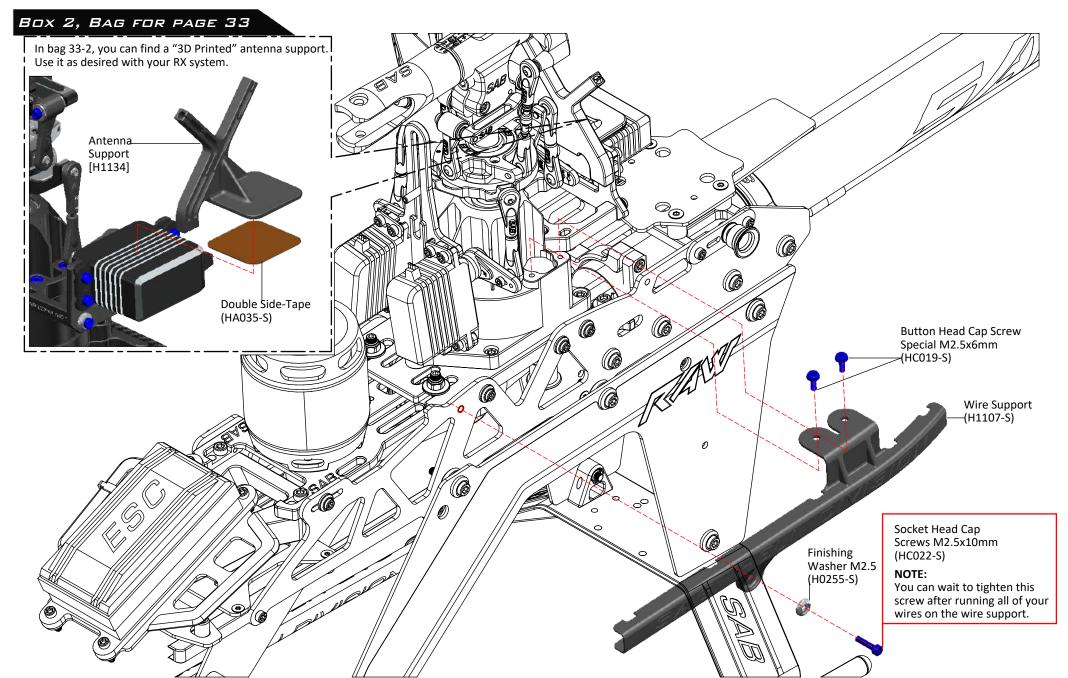
FRONT FBL POSITION



REAR FBL POSITION

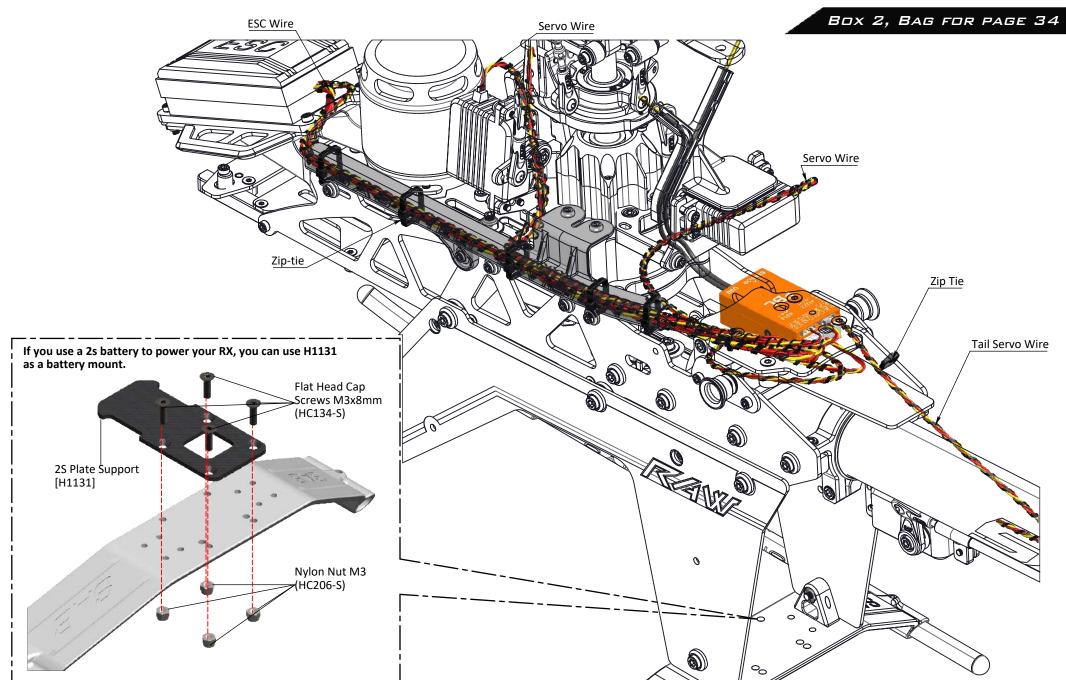






INSTALLATION FBL/RX









Before permanently mounting the batteries onto the battery tray, check the ideal position for the best center of gravity.





Use the included double side tape to secure the batteries to the tray. Use the Velcro Strap [HA041-S].

Battery protection-[H0866] Double Side Tap [HA035] **Battery Tray** (H1102-S) Velcro Strap (HA041-S)

6S BATTERY BATTERY 850/950 grams

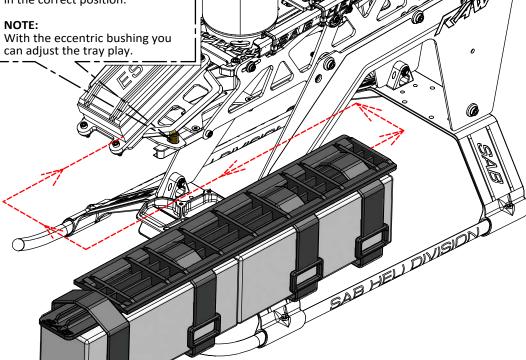




IMPORTANT

Before flying, make sure that the locking pin is back in its resting position, blocking the battery tray in the correct position.

can adjust the tray play.





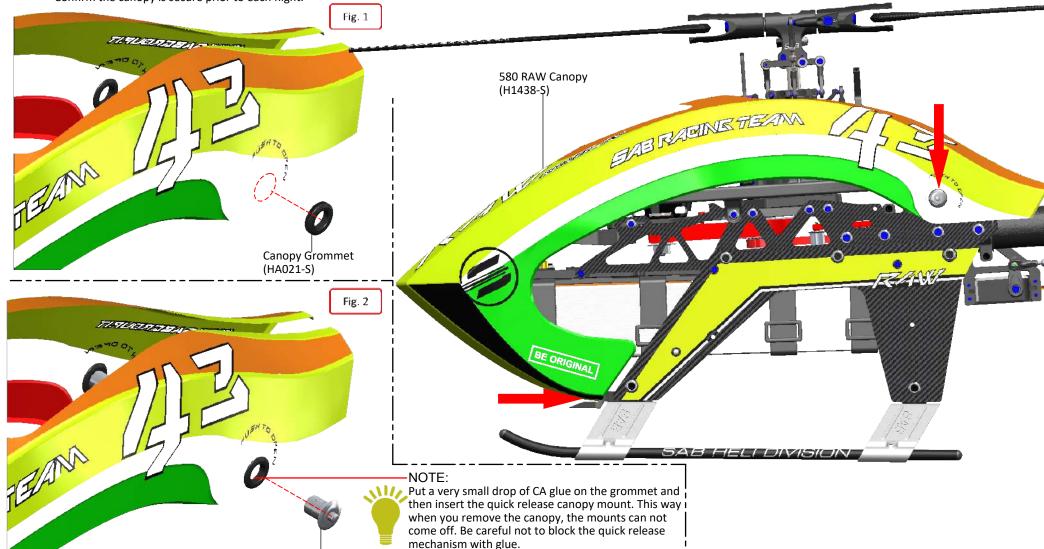
BOX 1, BAG FOR PAGE 36

CANOPY

*Install Canopy grommets (Figure.1) and the two quick release knobs (Figure.2)

*Fit the canopy in the red arrow zone, and insert the knobs.

*Confirm the canopy is secure prior to each flight.



Canopy Knobs (H0321-S)



Box 1, Bag for page 37

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 2600rpm (2500 rpm with 600mm main blades configurations).
- *Fit the main blades and tail blades. (Figure.1 and Figure.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 +/-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. 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.
- *Confirm the canopy is secure prior to each flight.
- * Make sure that the battery locking pin is back in its resting position, blocking in correct way the battery tray.
- *Perform the first flight at a low headspeed, 2000 RPM.



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

IN FLIGHT

ABOUT HEAD

The HPS head allows for a very broad range of dampening setups (Figure 3).

The dampers are composed of 2 O-ring (that defines the rigidity) and a technopolymer damper (that defines the maximum possible movement of the spindle).

Using different Oring and dampers you can get different responses of the model.

Oring 70 Shore: Soft for smooth response

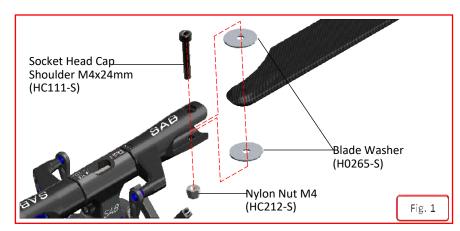
Oring 90 Shore: Firm for direct and precise response

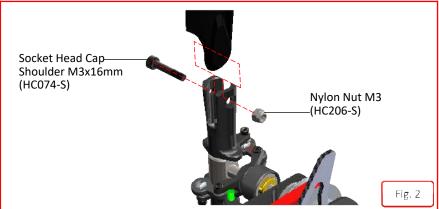
Dampers A = Max movement of the spindle, feeling more elastic.

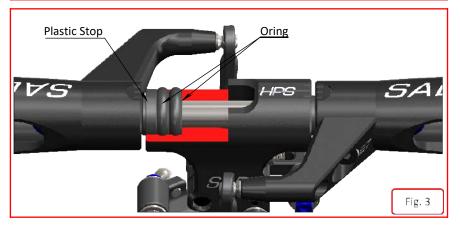
Dampers B = Medium.

Dampers C = Min movement of the spindle, feeling more direct.

In the kit, there is the damper is B (Spare parts H1216-S). [All Setting >>p/n H1216-S].







MAINTENANCE

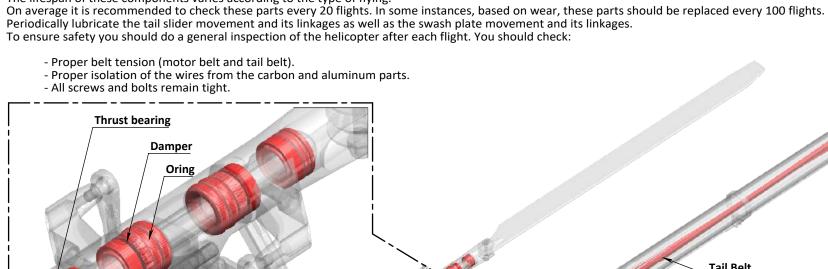


MAINTENANCE

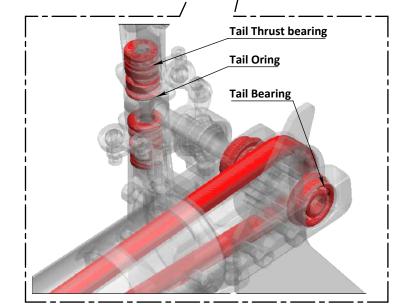
Take a look at the red parts.

Check them frequently. All other parts are not particularly subject to wear.

The lifespan of these components varies according to the type of flying.



Tail Belt



Motor Belt

Connector



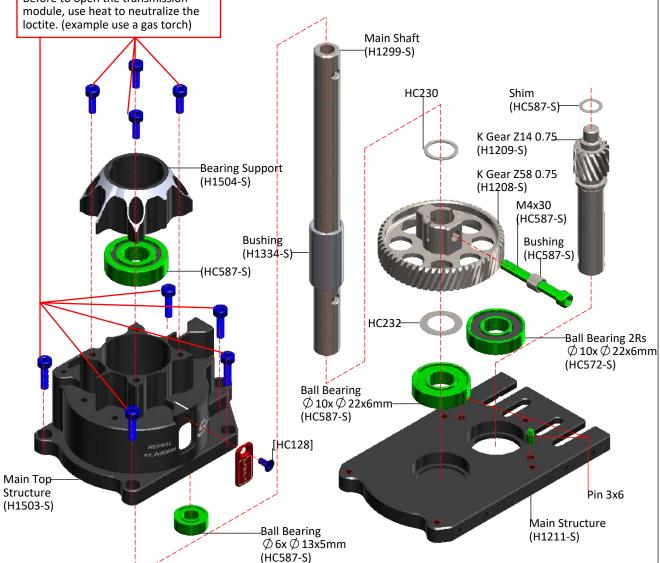
TRANMISSION MODULE

The transmission module is supplied assembled and verified, ready to be used.

Explode and Spare Parts

NOTE:

Before to open the transmission



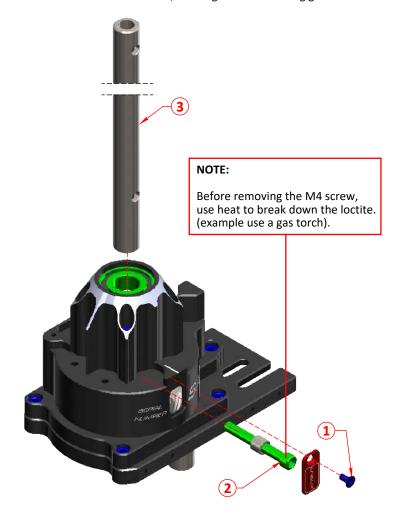
MAIN SHAFT REPLACEMENT

For replacing the main shaft:

Use SAB HA076

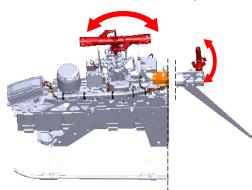
Grease inside the module.

- *Remove the serial number plate
- *Remove the **M4** screw
- *Remove and replace the main shaft
- *Screw in the M4 screw, with high force and using green loctite



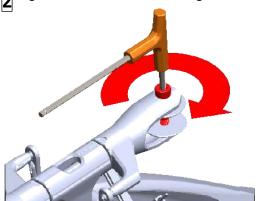


1 Check the dampening on the main and tail rotor to be the same as always.



Tighten the main blades before flight.

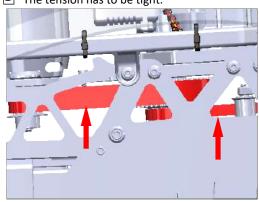
Check main hub screws(M4 Ensure they are tight.



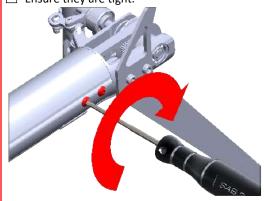
Check main hub screws(M4 and 2 M2.5)
Ensure they are tight.

Check all power connectors (Good mechanical connection).

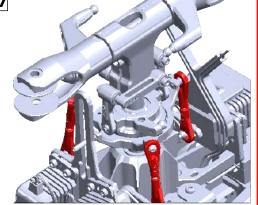
5 Check Tail & Motor belt tension. The tension has to be tight.



6 Check the 4 M3 Tail group screws. Ensure they are tight.



7 Check the Main Linkages & Servo Linkages

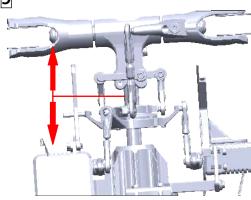


Check tail pulley set screws: Ensure they are tight.

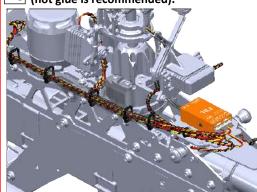
(It is suggested use a bit of Green Loctite.)



Check for vertical play of the main shaft.



Check if the FBL-RX connectors are OK (hot glue is recommended).



Check the M3 bell crank:
Belt crank movement must be smooth and the screw locked.

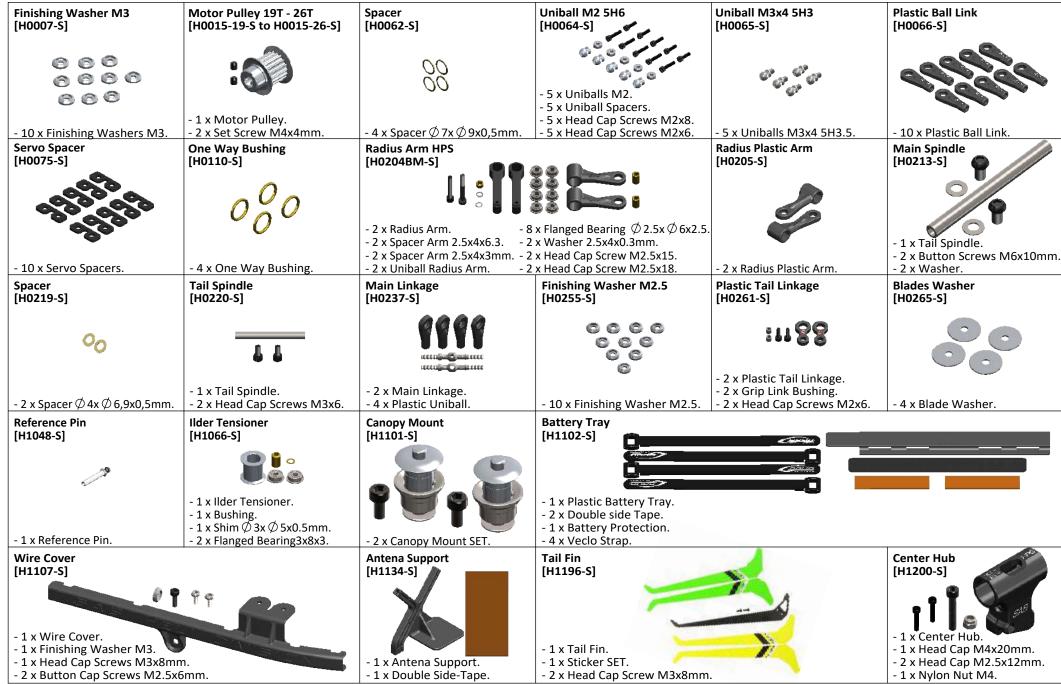


12 Be sure the follow parts are properly lubricated

- *Main shaft/swashplate
- *Tail slider/tail shaft
- *Carbon rod/carbon rod support
- *All thrust bearings
- *All plastic balls connections







SPARE PARTS





- 7 x Uniball M3.
- 1 x Reference Pin.
- 1 x Swashplate Assembly.

Serial Number [H1212-S]



- 1 x Serial Number.
- 1 x Flat Screw M2.5x5mm.

Rear Servo Support [H1206-S]



- 1 x Rear Servo Support.
- 2 x Socket Screws M3x8mm.

Main Gear [H1208-S]

- 1 x Main Gear.
- 1 x Bushing.
- 1 x Shoulder Screw M4x30.
- 1 x Spacer Ø 10x Ø 16x1mm.
- 2 x Shim \emptyset 10x \emptyset 16x0.2mm.

Pinion [H1209-S]



- 1 x Pinion.

Main Structure [H1211-S]





- 1 x Main Structure
- 2 x Pin 3x6.

ESC Support

[H1228-S]

- 1 x Bearing \emptyset 10x \emptyset 22x6mm.
- 1 x Bearing 2RS \emptyset 10x \emptyset 22x6mm.

Main Pulley [H1213-S]



- 1 x Main Pullev.
- 1 x One Way Bearing \emptyset 10x \emptyset 14x12.
- 1 x Bushing \emptyset 10x \emptyset 13x1.5.

Front Tail Pulley [H1214-S]



- 1 x Front Tail Pulley.
- 2 x Ball Bearing Ø 10x Ø 15x12 1 x Socket Head Cap Shoulder M3x18mm.

Motor Mount [H1215-S]



- 1 x Motor Mount.
- 2 x Set Screws M4x15mm.
- 2 x Nvlon Nuts M4.
- 2 x Washers Ø 4.3x Ø 11x1
- 2 x Finishing Washers M2.5.
- 2 x Head Cap Screws M2.5x8mm.

Damper [H1216-S]

- 2 x Damper A.
- $2 \times Damper B$. $4 \times Oring 70$ °.
- $-2 \times Damper C. -4 \times Oring 90^{\circ}.$

Battery Tray Guide [H1219-S]

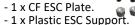


- 2 x Battery Tray Guide.
- 4 x Button Screws M2.5x6mm.
- 2 x Socket Screws M2.5x10mm.
- 2 x Washer \emptyset 3.2x \emptyset 6x0.5mm.

35mm Servo Spacer [H1223-S]



- 1 x 35mm Servo Spacer.
- 1 x CF ESC Plate.



- 4 x Ny Lon Nut M3.
- 2 x Flat Cap Screw M3x8mm.
- 2 x Socket Head Cap M3x10mm.

Tail Blade Grips [H1233-S]

- 2 x Tail Blade Grip.
- 4 x Bearing \emptyset 4x \emptyset 9x2.5mm.
- 2 x Spacer \bigcirc 7x \bigcirc 9x0.5mm.
- 2 x Thrust Bearing \emptyset 4x \emptyset 9x4mm.
- 2 x Socket Screw M3x6mm.
- 2 x Socket Screw M2x6mm.

Battery Carbon SET [H1247-S]



- 1 x Carbon Pin Support.
- 1 x Head Cap M2.5x12mm. - 2 x Head Cap M2.5x8mm.
- 5 x Flat Screws M2.5x5mm.



- 1 x Alu Pin.

- 1 x Brass lever.

- 2 x Washer M2.5.

- 1 x FBL Support.

FBL/RX Support

[H1625-S]

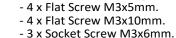
- 1 x FBL Plate.
- 1 x RX Plate.

[H1249-S]

- 4 x RX Plate. Tail Pitch Slider



- 1 x Tail Pitch Slider Assembled
- 2 x Slider Linkage.
- 2 x Socket Screws M2x6mm.
- 2 x Spacer.



Front Servo Mount 35mm [H1261-S]

- 4 x Rubber.



- 1 x Front Servo Mount 35mm.
- 3 x Socket Screws M2.5x8mm.





- 2 x Landing Gear Rod.
- 4 x Plug.

Rear Servo Mount 35mm [H1262-S]



- 1 x Rear Servo Mount 35mm.
- 2 x Finishing Washer M2.5.
- 2 x Socket Screws M2.5x8mm.



Base Tail Belt Tensioner [H1278-S]

- 1 x Bushing
- 1 x Base Tail Belt Tensioner.
- 1 x Tensioner Column.
- 1 x Tensioner Spring.
- 1 x Shoulder Screw M3x22.
- 2 x Flanged Bearing \emptyset 3x \emptyset 7x3.

Carbon Rod Support [H1310-S]



- 1 x Carbon Rod Support.
- 1 x Socket Screw M2.5x12mm. 1 x Set Screw M3x6mm.

Frame Spacer [H1340-S]



- 4 x Frame Spacer.
- 4 x Double Side Tape.

Main Blade Grips [H1368-S]

- 2 x Blade Grip.
- 4 x Bearing \emptyset 8x \emptyset 14x4mm.
- 2 x Thrust Bearing Ø 8x Ø 14x4mm.
- 2 x Washer \emptyset 11x \emptyset 13.5x0.5mm.
- 2 x Button Screws M4x10mm.

Tail Boom Tension [H1402-S]



- 1 x Clamp 1. 1 x Nylon Nut M3.
- 1 x Clamp 2. 1 x Set screws M3x20mm.
- 1 x Derlin. - 1 x Shoulder Screw M3x18mm.
- 1 x Oring. - 2 x Socket Screws M4x10mm.

Main Shaft [H1299-S]



- 1 x Main Shaft.
- 1 x Shoulder Screw M4x30.
- 1 x Bushing.
- 2 x Shim \emptyset 10x \emptyset 16x0.2mm.

Tail Pulley 23T [H1312-23-S]



- 1 x Tail Pulley 23T.

Tail Belt Ilder Mount

[H1341-S]

BVS

- - 2 x Oring.

Blade Grip Arm 27

- 1 x Tail Shaft.

- 1 x Tail Hub.

Tail Shaft

[H1313-S]



- 2 x Blade Grip Arm. - 1 x Tail Belt Ilder Mount.
- 2 x Socket Screw M3x12mm. - 2 x Head Cap Screw M4x8mm.
- 2 x Shim Ø 3x Ø 6x0.5mm. - 2 x Uniball M3x4 Ø5 H3.5.

Boom Block



- 1 x Boom Block.
- 2 x Boom Block Rubber.
- 2 x Socket Screws M3x10.
- 1 x Socket Screw M3x12.
- 1 x Nylon Nut M3.

Plastic Landing Gear [H1407-S]



- 2 x Plastic Landing Gear.
- 4 x Set Screws M4x4mm.

Front Boom Block [H1304-S]



- 1 x Front Boom Block.
- 2 x Socket Screws M3x10.
- 1 x Socket Screw M3x12.
- 1 x Nylon Nut M3.

Bell Crank Base [H1314-S]



- 1 x Bell Crank Base.
- 1 x Socket Screw M2.5x8mm. | 1 x Bearing \emptyset 6x \emptyset 13x5mm.

Boom Mount Support [H1350-S]



- 1 x Boom Mount Support.
- 4 x Finishing Washer M3.
- 4 x Socket Screws M3x10.

Block NUT M3 [H1386-S]



- 5 x Block NUT M3.
- 5 x Nylon NUT M3.

Alu Landing Gear Mount [H1408-S]



- 2 x Alu Landing Gear Mount.
- 8 x Socket Screws M2.5x8mm 1 x UPPER Main Frame.

Tail Case Group [H1306-S]



- 1 x Tail Case Group.

Top Case

[H1503-S]

1 x Main Case.

- 4 x Button Screw M3x4mm.

- 5 x Socket Screws M3x12mm

Bearing Support [H1504-S]



- 1 x Bearing Support.
- 4 x Socket Screws M3x8mm.
- 1 x Bearing \emptyset 10x \emptyset 24x7mm.

Tail Servo Mount [H1353-S]



- 1 x Tail Servo Mount
- 2 x Socket Screw M3x12mm.

Tail Bell Crank Lever [H1393-S]

- 1 x Uniball M2.
- 1 x Uniball M3.
- 1 x Bell Crank Lever Assembled.
- 1 x Socket Screws M3x22mm.
- 1 x Socket Screws M2x6mm.
- 1 x Nvlon Nut M3.
- 1 x Washer Ø 3.1x Ø 6x0.2mm.
- 1 x Washer \emptyset 3x \emptyset 4.5x0.5mm.

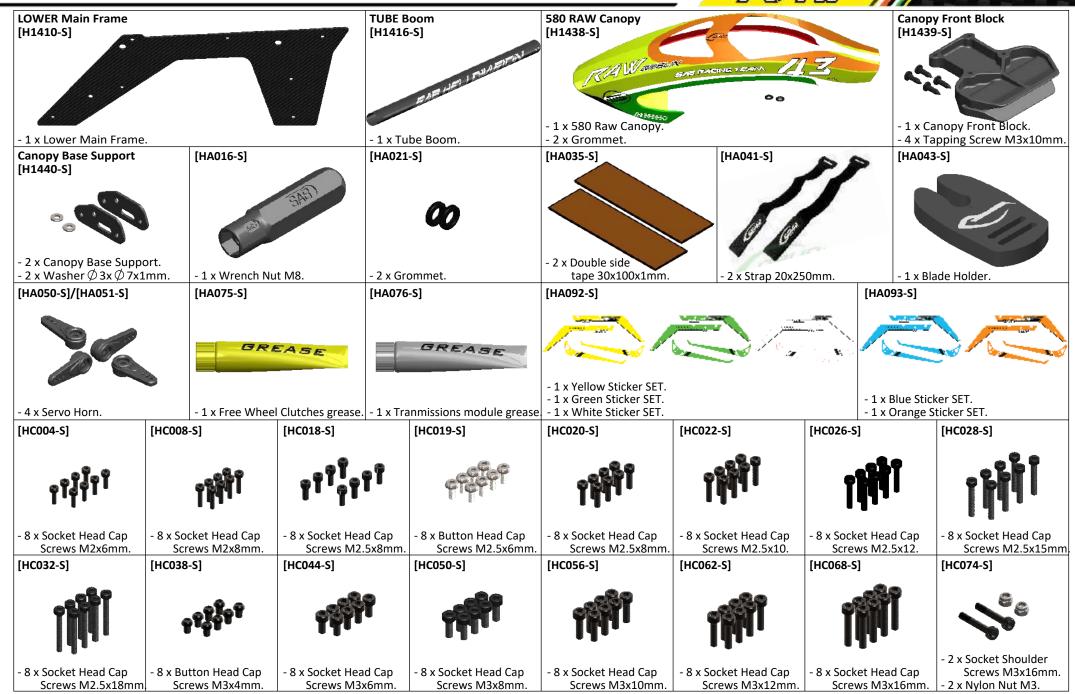
UPPER Main Frame [H1409-S]



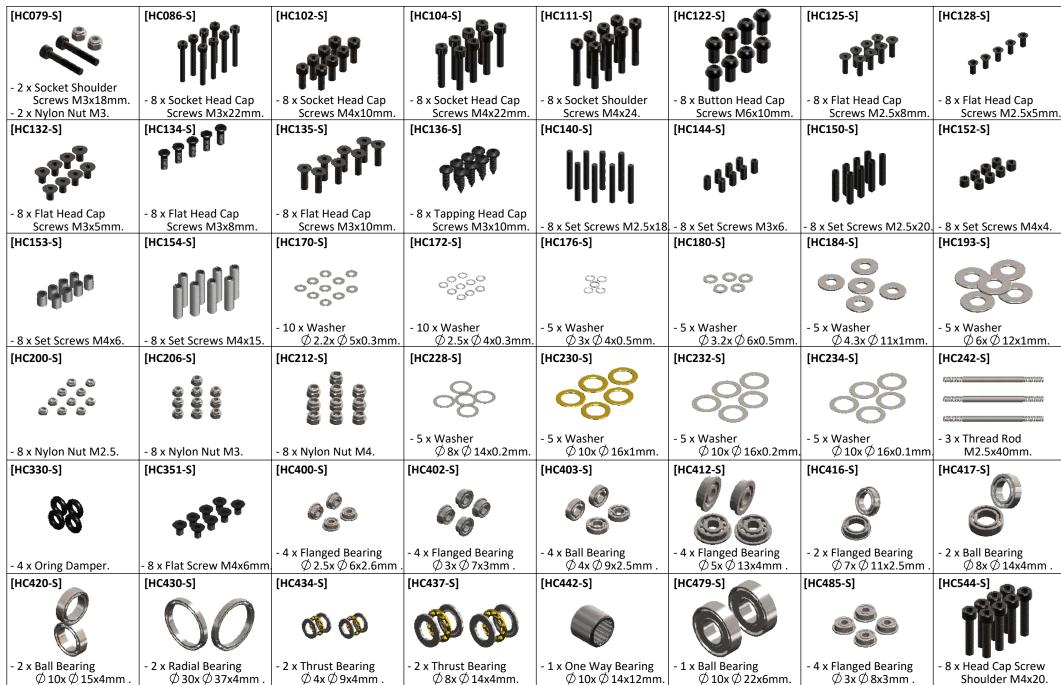
- - SAB HELI DIVISION

SPARE PARTS





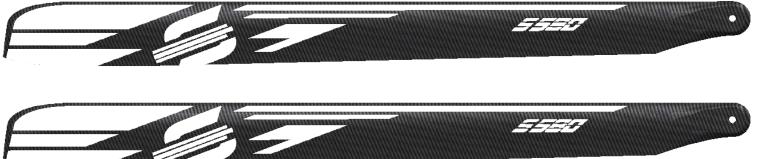




SPARE PARTS









- 2 x Main Blades 580mm.

- 2 x Tail Blades 95mm.

Carefully check your model before each flight to ensure it is airworthy.

Consider flying only in areas dedicated to the use of model helicopters.

Check and inspect the flying area to ensure it is clear of people and obstacles.

Rotor blades can rotate at very high speeds! Be aware of the danger they pose.

Always keep the model at a safe distance from other pilots and spectators.

Avoid maneuvers with trajectories towards a crowd.

Always maintain a safe distance from the model.



GOBLIN RAW 580

Release 1.0 - January 2022

WORLD DISTRIBUTION

www.goblin-helicopter.com For sales inquiries, please email: sales@goblin-helicopter.com For info inquiries, please email: support@goblin-helicopter.com

Attention: If you are a customer and have questions or need of assistance, please contact in a first time the Goblin retailer where you made the purchase.

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