

**OBLIN**

HELICOPTER

# KRAKEN

**KRAKEN**



**MANUAL**

SAB HELI DIVISION 47

PUSH TO OPEN

KRAKEN LIMITED EDITION

*Be Original*

**OBLIN**  
BE ORIGINAL

**KRAKEN**

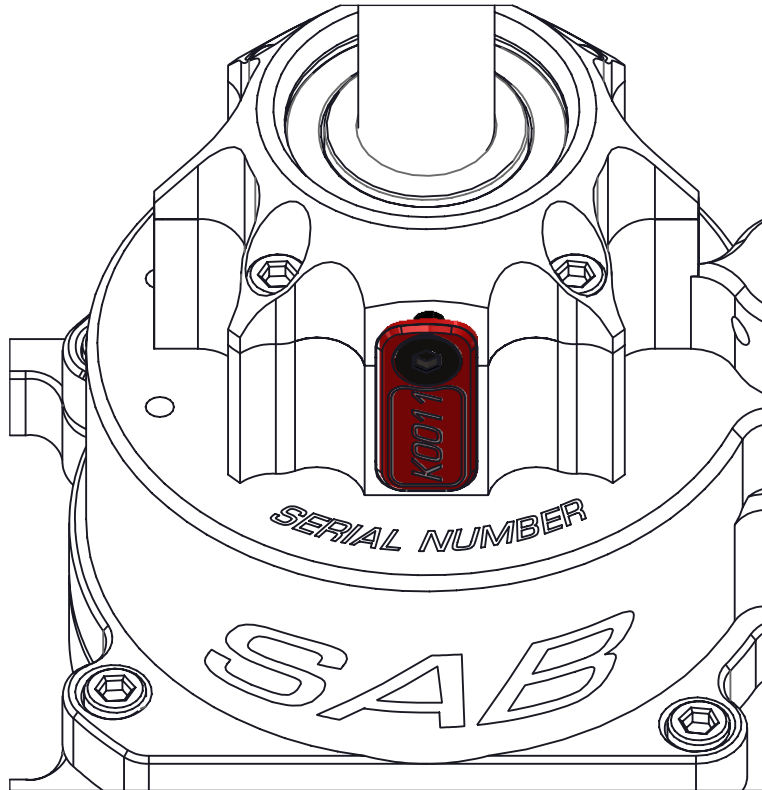


SAB HELI DIVISION

**SAB HELI DIVISION**



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



## VERY IMPORTANT

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**

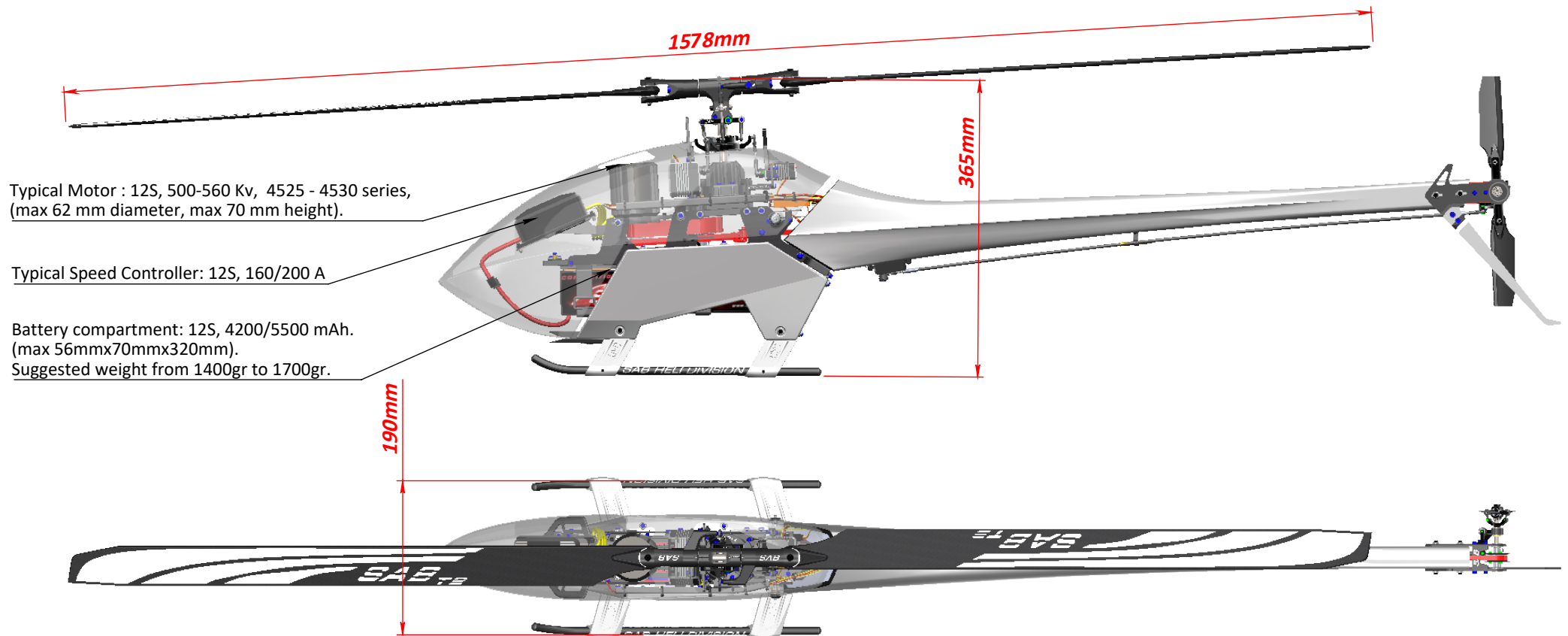
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## GOBLIN KRAKEN TECHNICAL SPECIFICATIONS



Typical Motor : 12S, 500-560 Kv, 4525 - 4530 series,  
(max 62 mm diameter, max 70 mm height).

Typical Speed Controller: 12S, 160/200 A

Battery compartment: 12S, 4200/5500 mAh.  
(max 56mmx70mmx320mm).  
Suggested weight from 1400gr to 1700gr.

- **AIRFRAME weight:** 2720 ( with blades, no battery, no electronics ).
- **Main rotor diameter:** 1578 mm (with 700 mm blades).
- **Main blade length:** 650 to 730mm.
- **Tail rotor diameter:** 284 mm (with 105 mm tail blades).
- **Tail blade length:** 105 to 115 mm.

**KIT Includes:**

- 21T motor pulley (other pulley sizes available).
- 2 battery trays with straps.

- **Cyclic Servos:** Standard size 40mm.
- **Tail Servo:** Standard size 40mm.
- **Main Rotor Ratio :** 11.8 to 8.8 ( 21T included: 10.1:1).
- **Tail Rotor Ratio :** 5.0-4.8:1 ( 27T included: 4.8:1 ).

- 690 mm main blades.
- 105 mm tail blades.

## 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 NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCT. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER’S INTENDED USE.
- (c)** Purchaser Remedy- SAB Heli Division’s sole obligation hereunder shall be that SAB Heli Division will, at its option, replace any Product determined by SAB Heli Division to be defective. In the event of a defect, this is the Purchaser’s exclusive remedy. Replacement decisions are at the sole discretion of SAB Heli Division. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance or attempted repair by anyone.

# NOTE FOR ASSEMBLY



## ADDITIONAL COMPONENTS REQUIRED


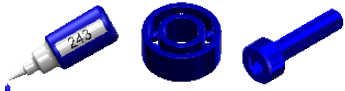
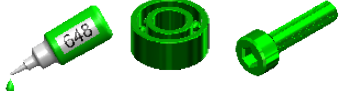



- \*Electronic Motor
- \*Speed controller
- \*Batteries: 12S – 4200/5500mAh
- \*1 flybarless 3 axis control unit
- \*Radio power system.
- \*3 cyclic servos
- \*1 tail rotor servo
- \*6 channel radio control system on 2.4 GHz

## TOOLS, LUBRICANTS, ADHESIVES

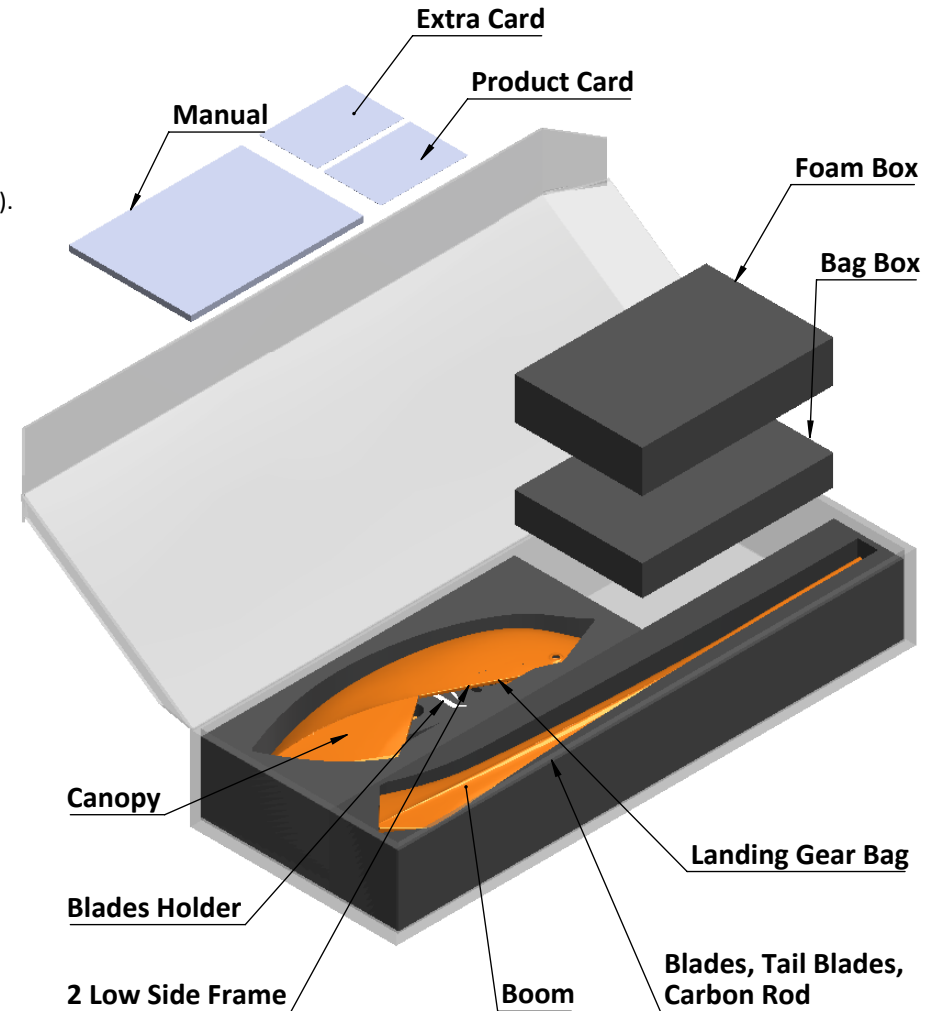
- \*Generic pliers.
- \*Hexagonal driver, size 1.5, 2, 2.5, 3mm.
- \*4/5mm T-Wrench.
- \*5.5mm Socket wrench (for M3 nuts).
- \*8mm Hex fork wrench (for M5 nuts).
- \*Medium threadlocker (SAB p/n HA116-S).
- \*Strong retaining compound (SAB p/n HA115-S).
- \*Spray lubricant (eg. Try-Flow Oil).
- \*Synthetic 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:

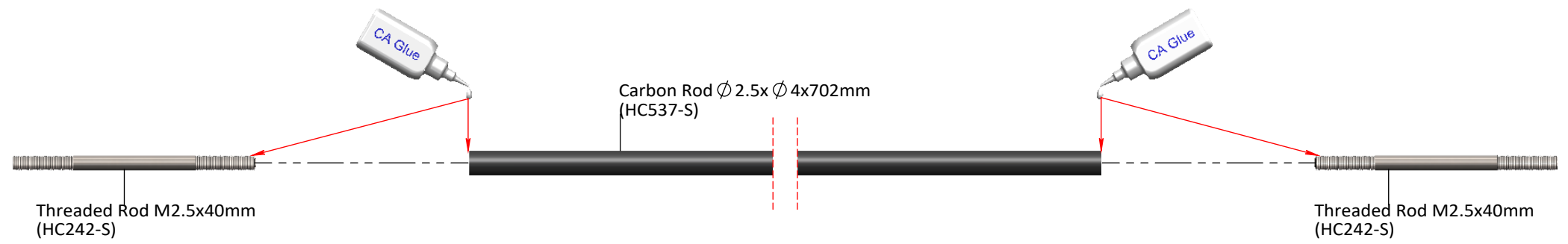
 <p><b>Important</b></p>	 <p>Blue screw and blue bearing in the illustration means you need to use: <b>Thread Locker Medium Strength (SAB HA116-S)</b></p>	 <p>Green screw and Green bearing in the illustration means you need to use: <b>Use retaining compound (SAB HA115-S)</b></p>
 <p>Indicates that for this assembly phase you need materials that are: Foam xxx, BAG xxx.</p>	 <p>Use CA Glue</p>	 <p>Use Proper Lubricant</p>

## INSIDE THE MAIN BOX THERE ARE:

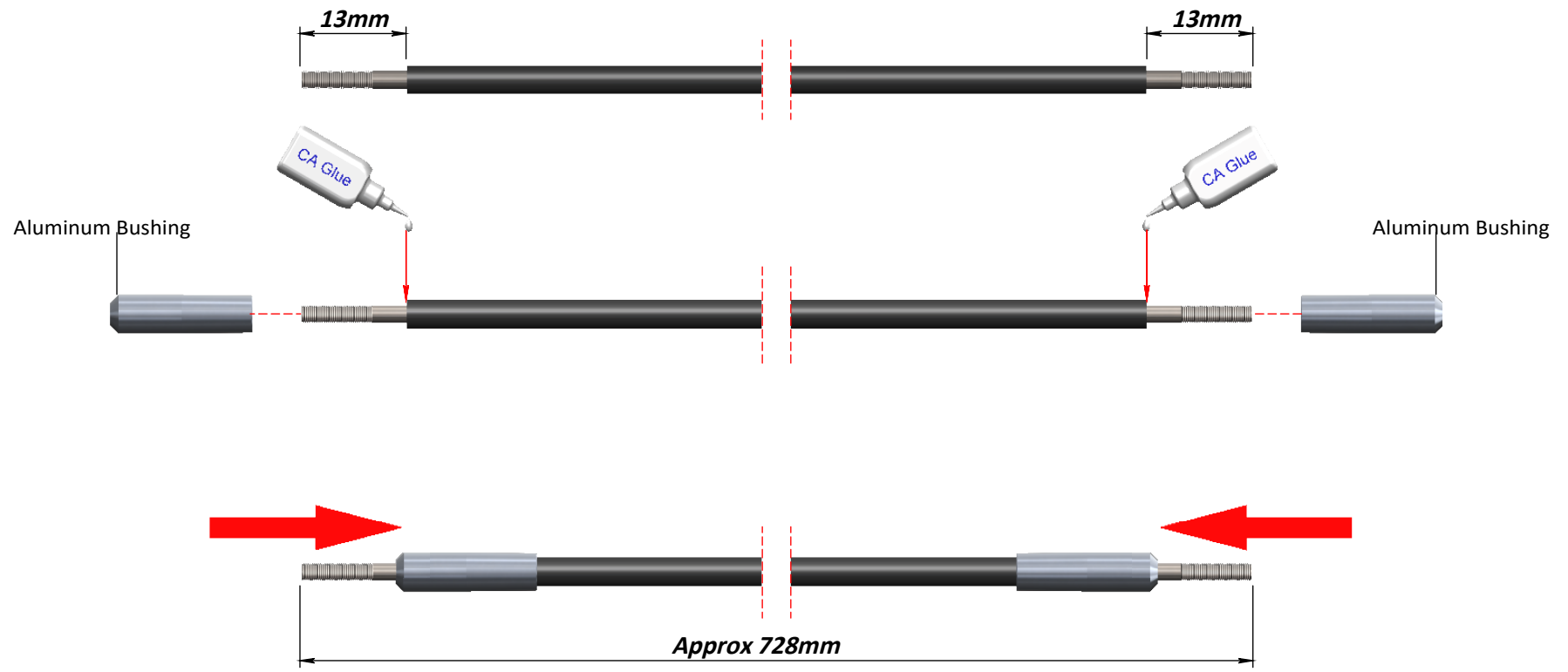


The assembly process is described in the following chapters. Each chapter provides you with the box, bag and/or foam numbers you will need for that chapter. The information is printed in a black box in the upper corner of the page.

**BAG 1**

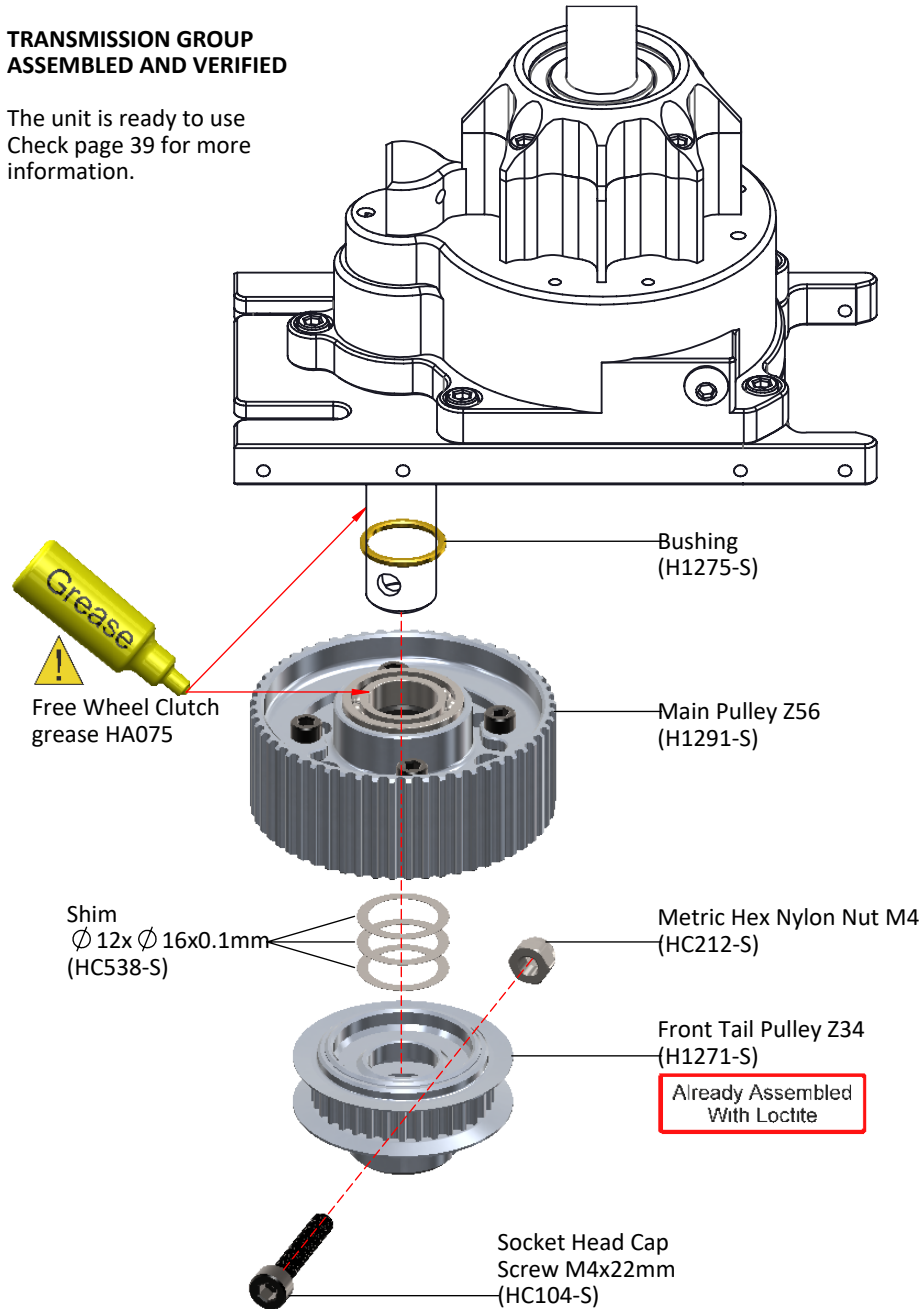


**NOTE:**

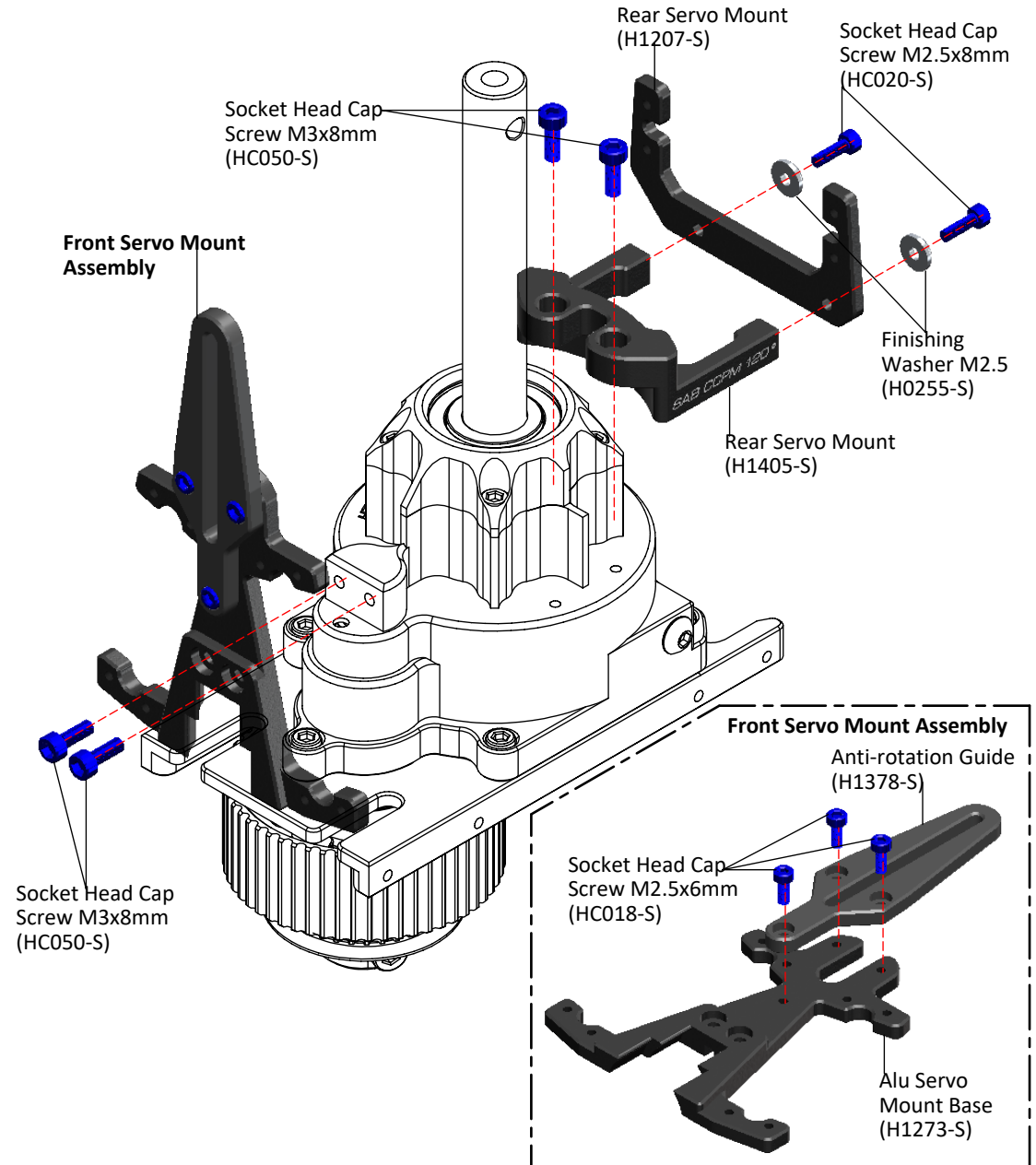


## TRANSMISSION GROUP ASSEMBLED AND VERIFIED

The unit is ready to use  
Check page 39 for more information.



## FOAM 1, BAG 2



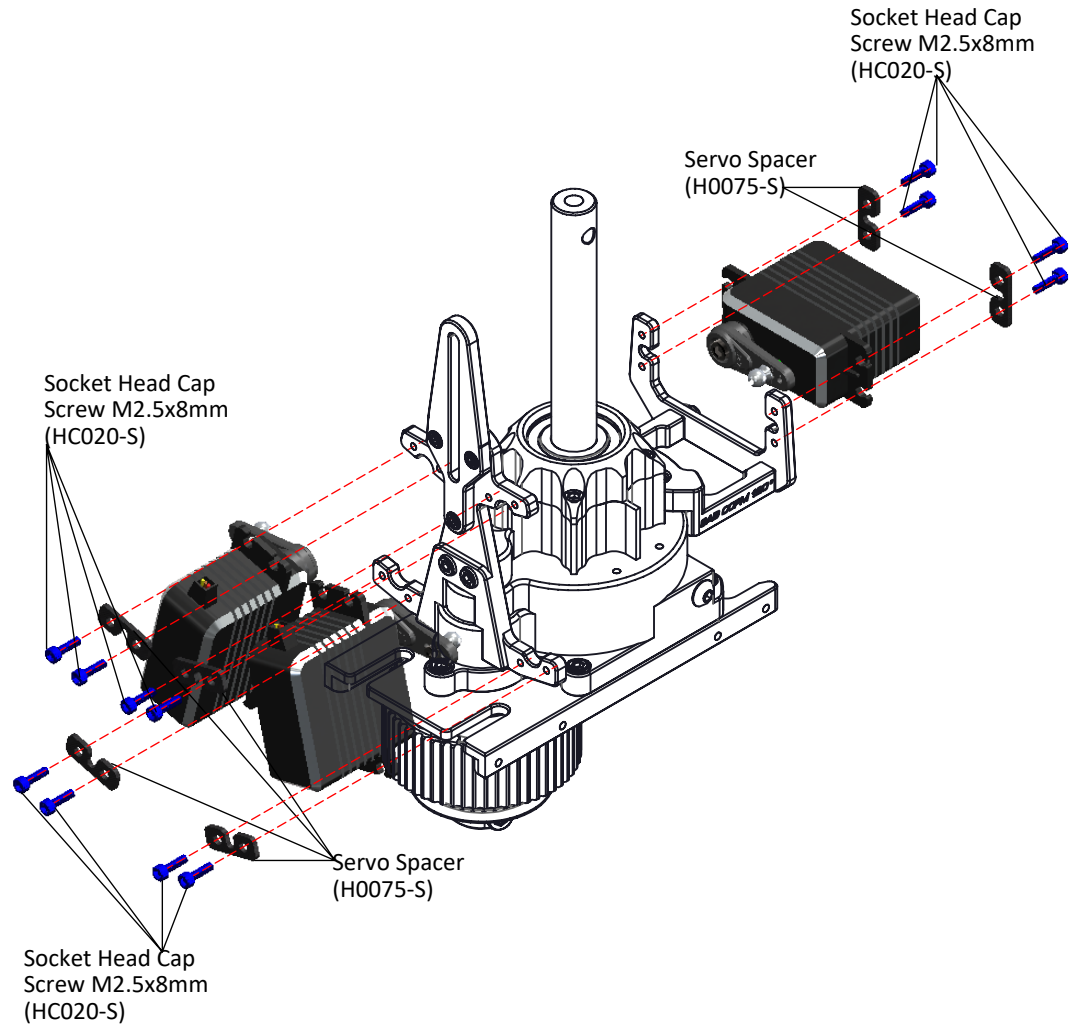
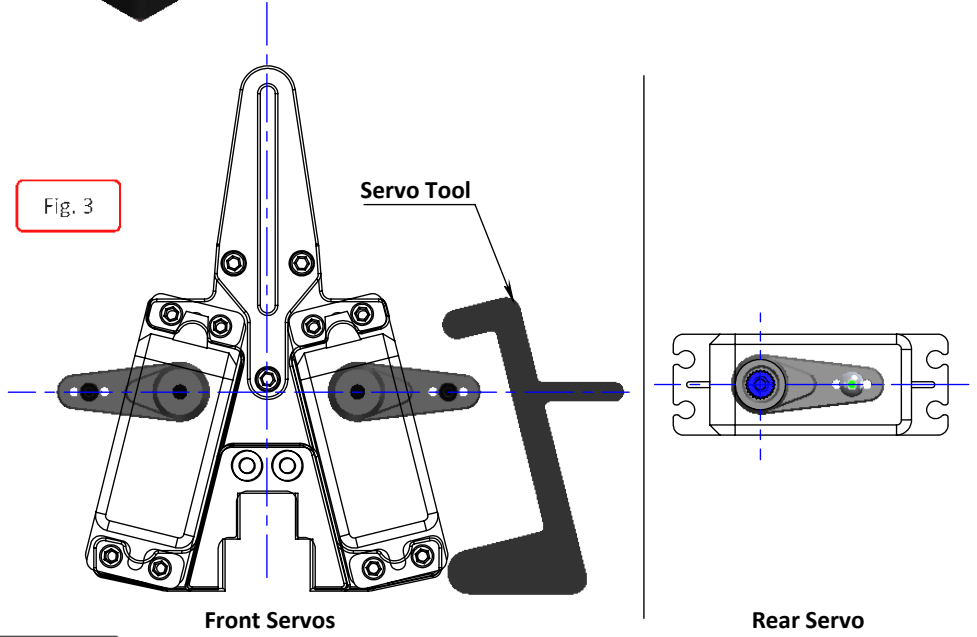
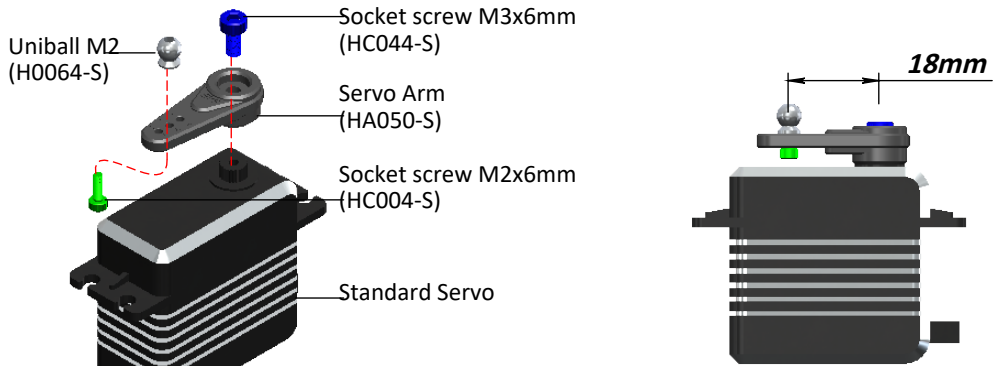
**BAG 3**

**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].

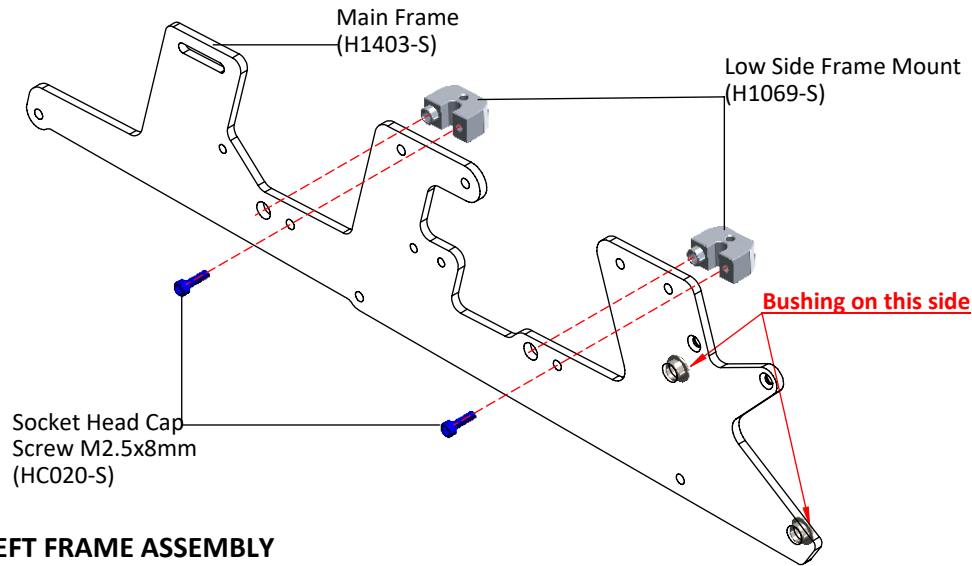
Ensure the alignment of the servo arms (and sub trim is set) before installation of the servos in the model.

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)**

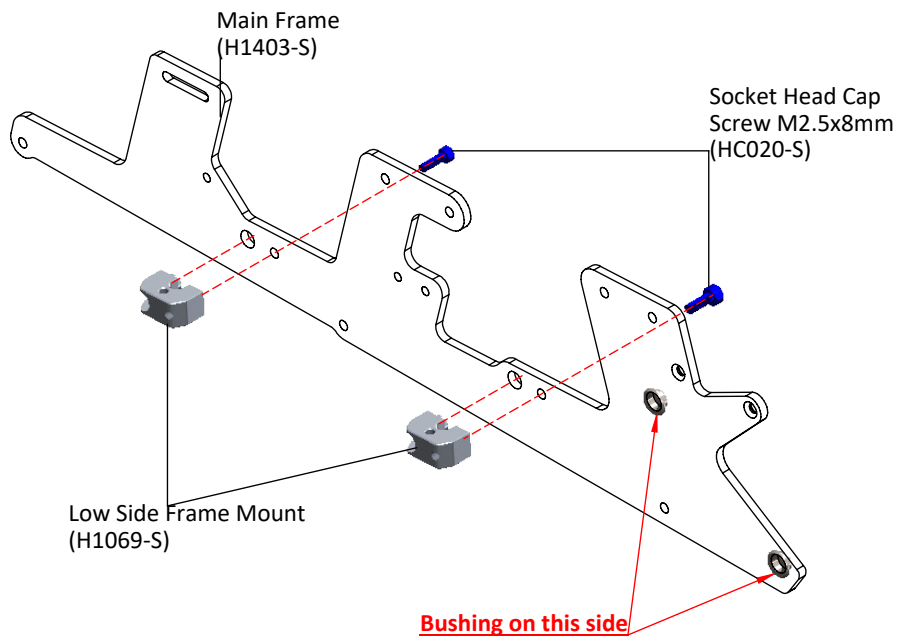




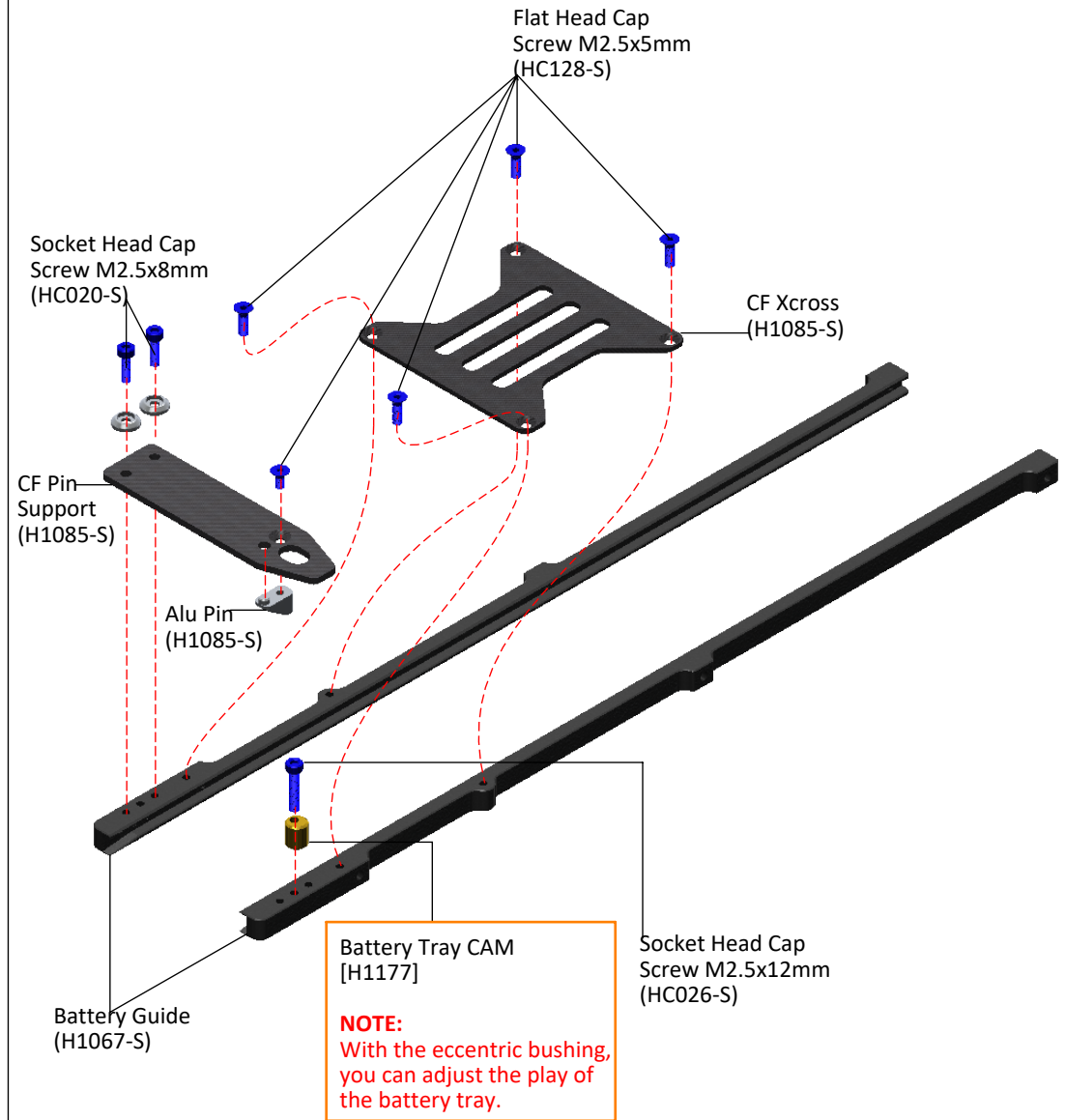
## RIGHT FRAME ASSEMBLY



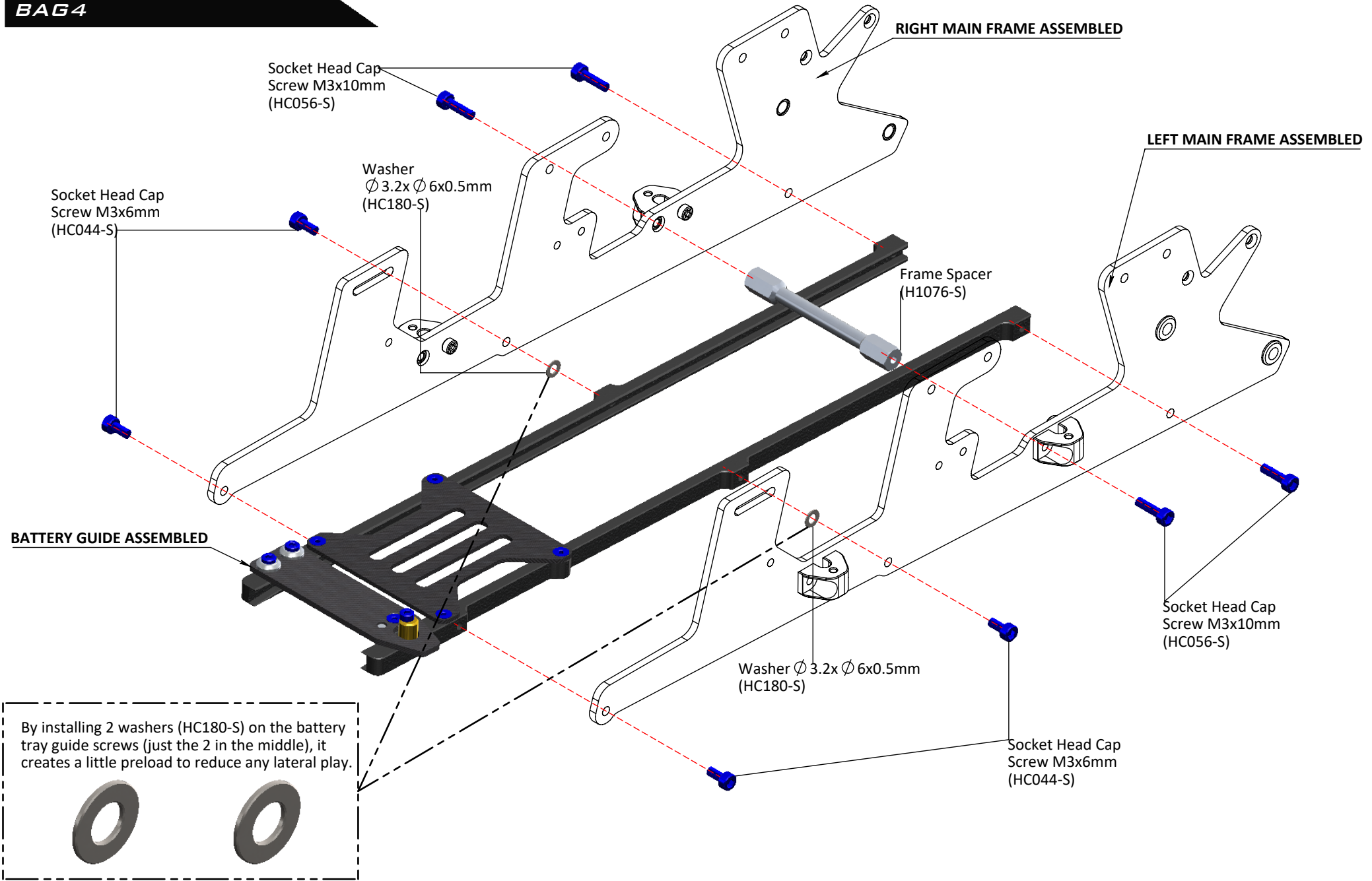
## LEFT FRAME ASSEMBLY

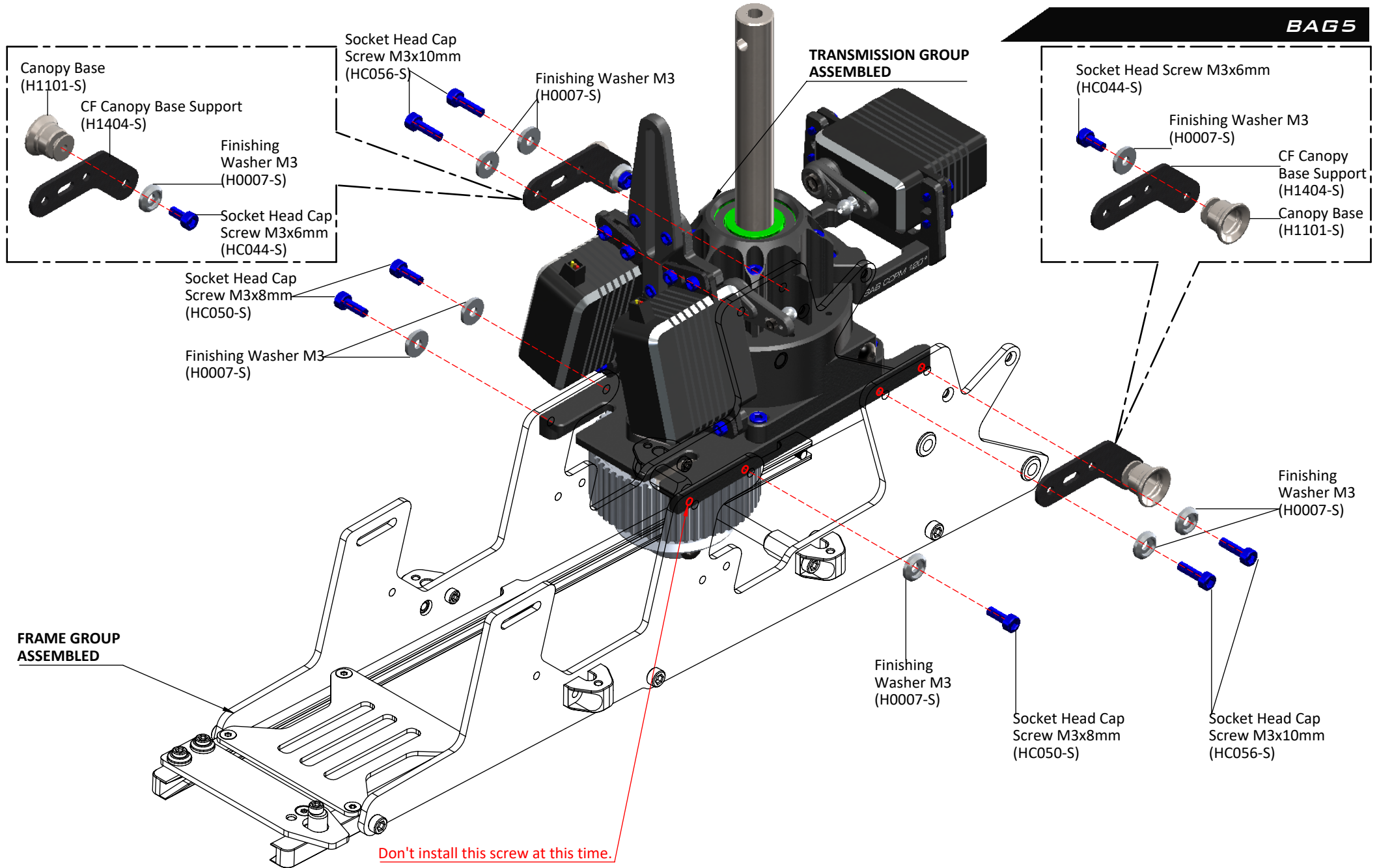


## BATTERY GUIDE ASSEMBLY



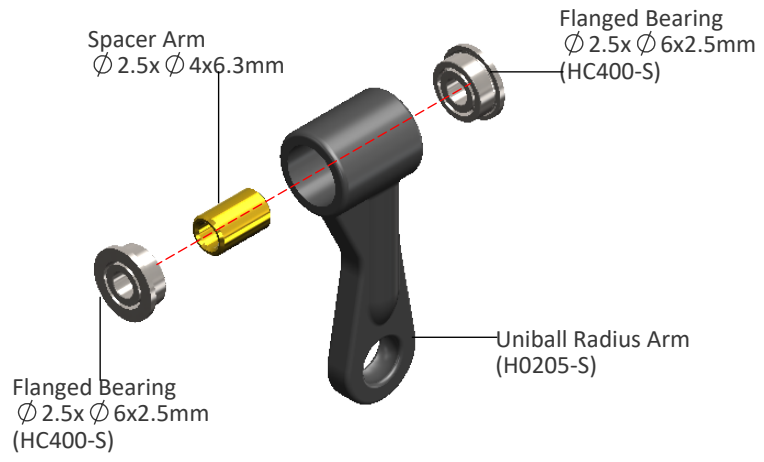
## BAG4



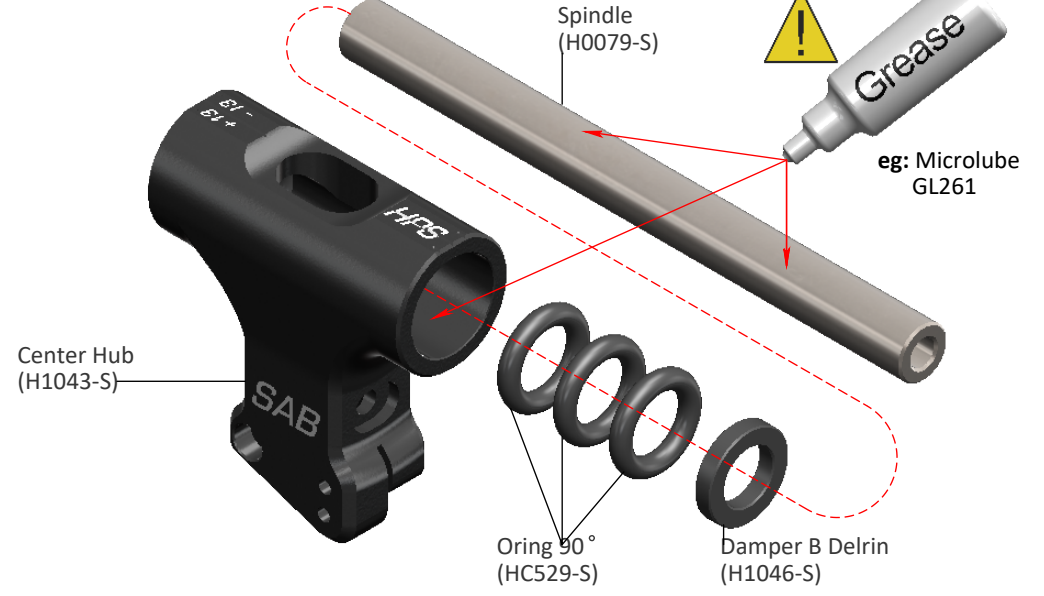


## FOAM 2, BAG 6

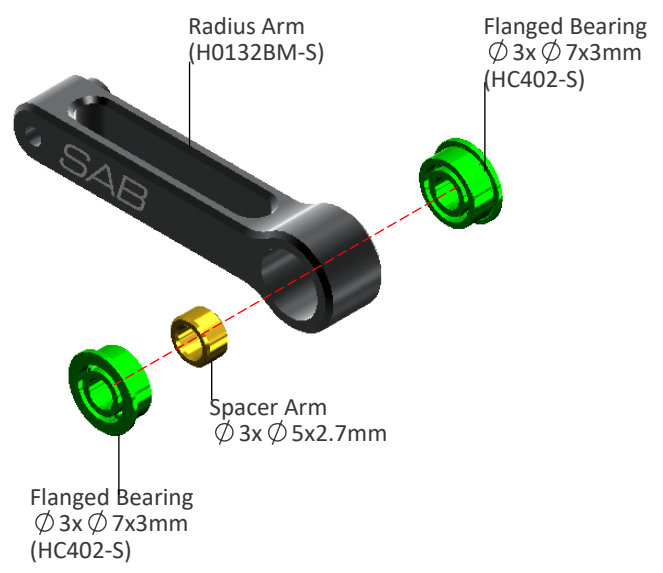
### UNIBALL RADIUS ARM ASSEMBLY ...X2



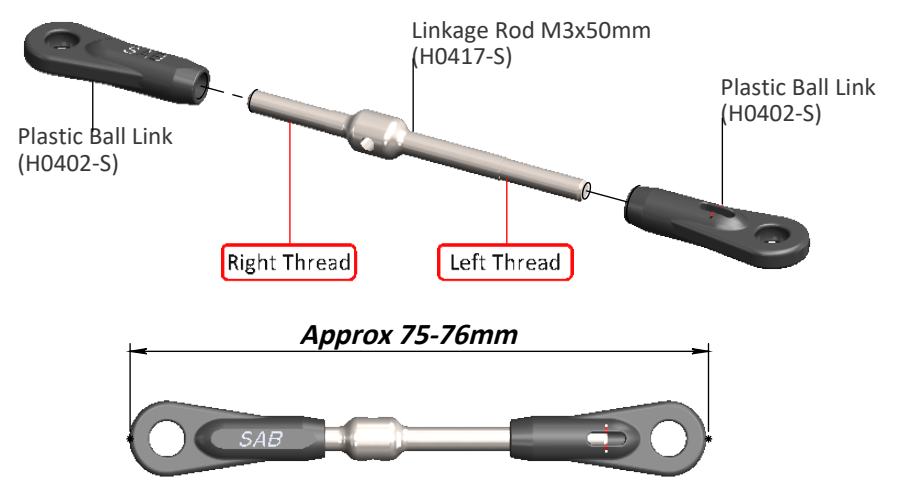
### CENTER HUB ASSEMBLY

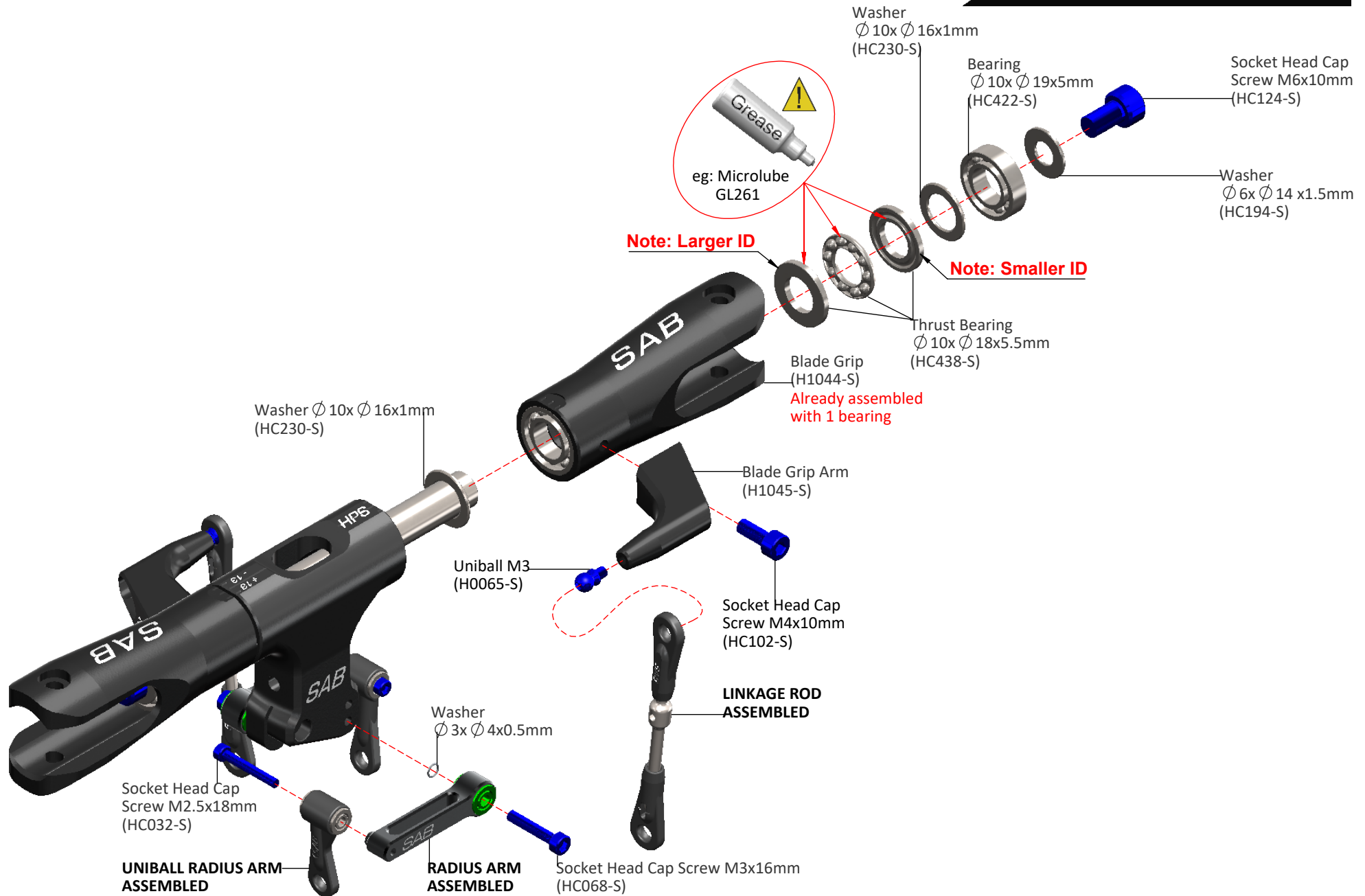


### RADIUS ARM ASSEMBLY ...X2

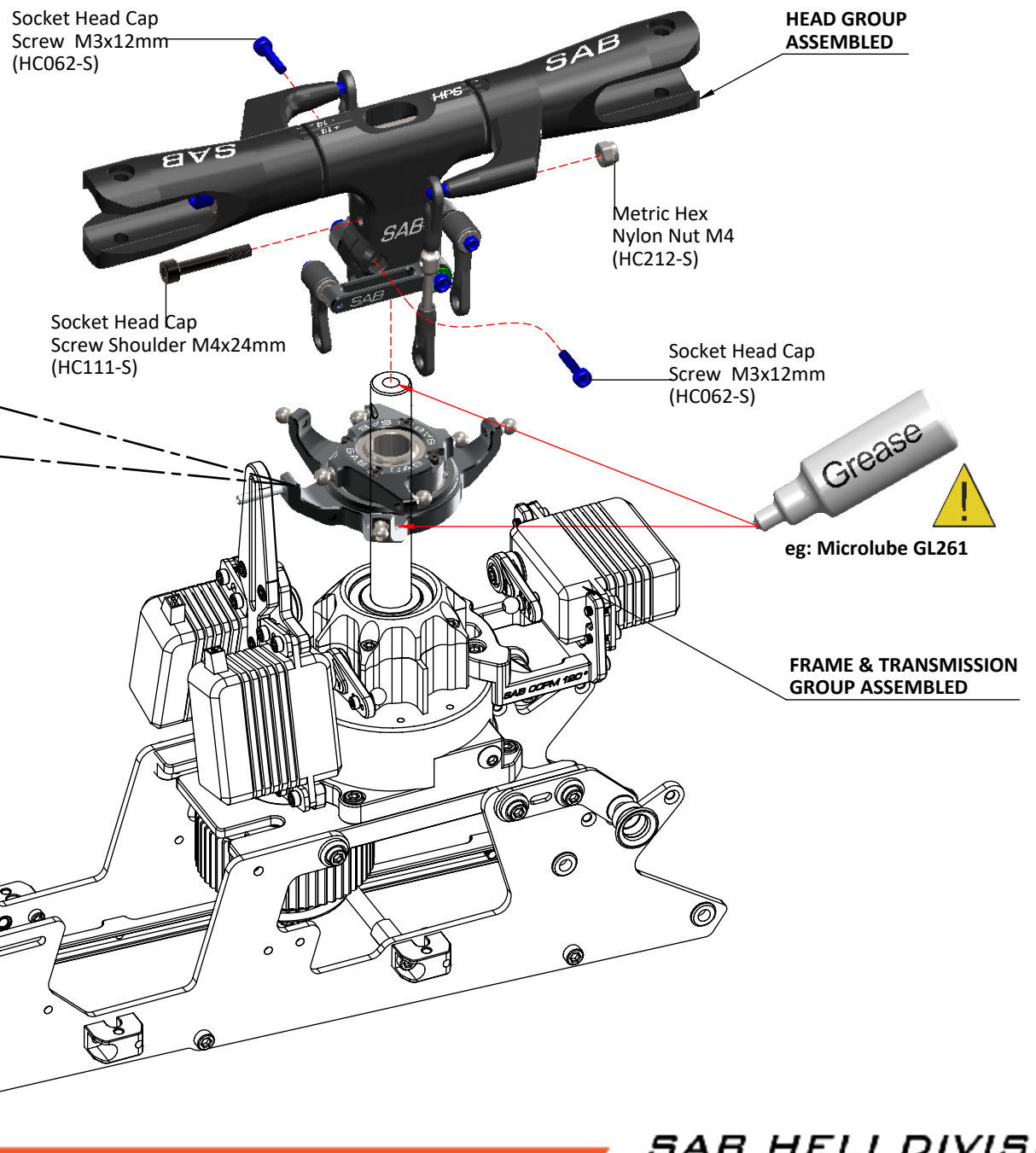
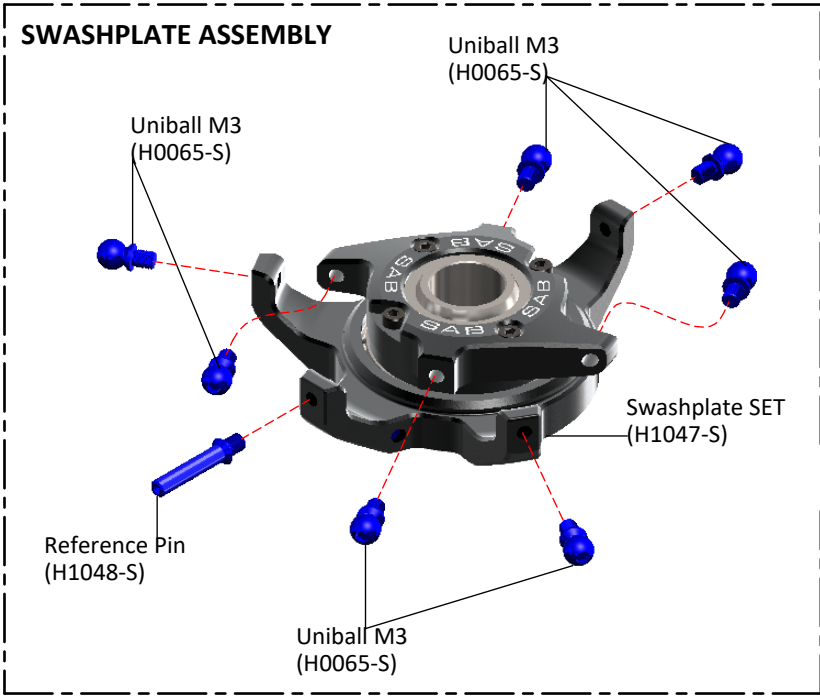


### LINKAGE ROD A ASSEMBLY ...X2



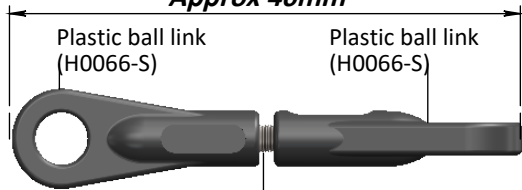


**FOAM 2, BAGB**



## LINKAGE ROD FRONT SERVO ASSEMBLY ... X2

*Approx 46mm*

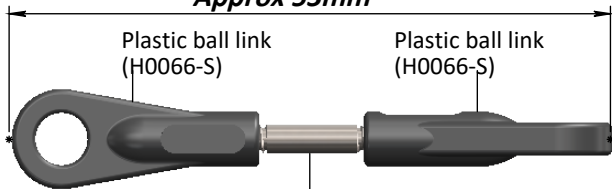


Set Screw M2.5x18mm  
(HC140-S)

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

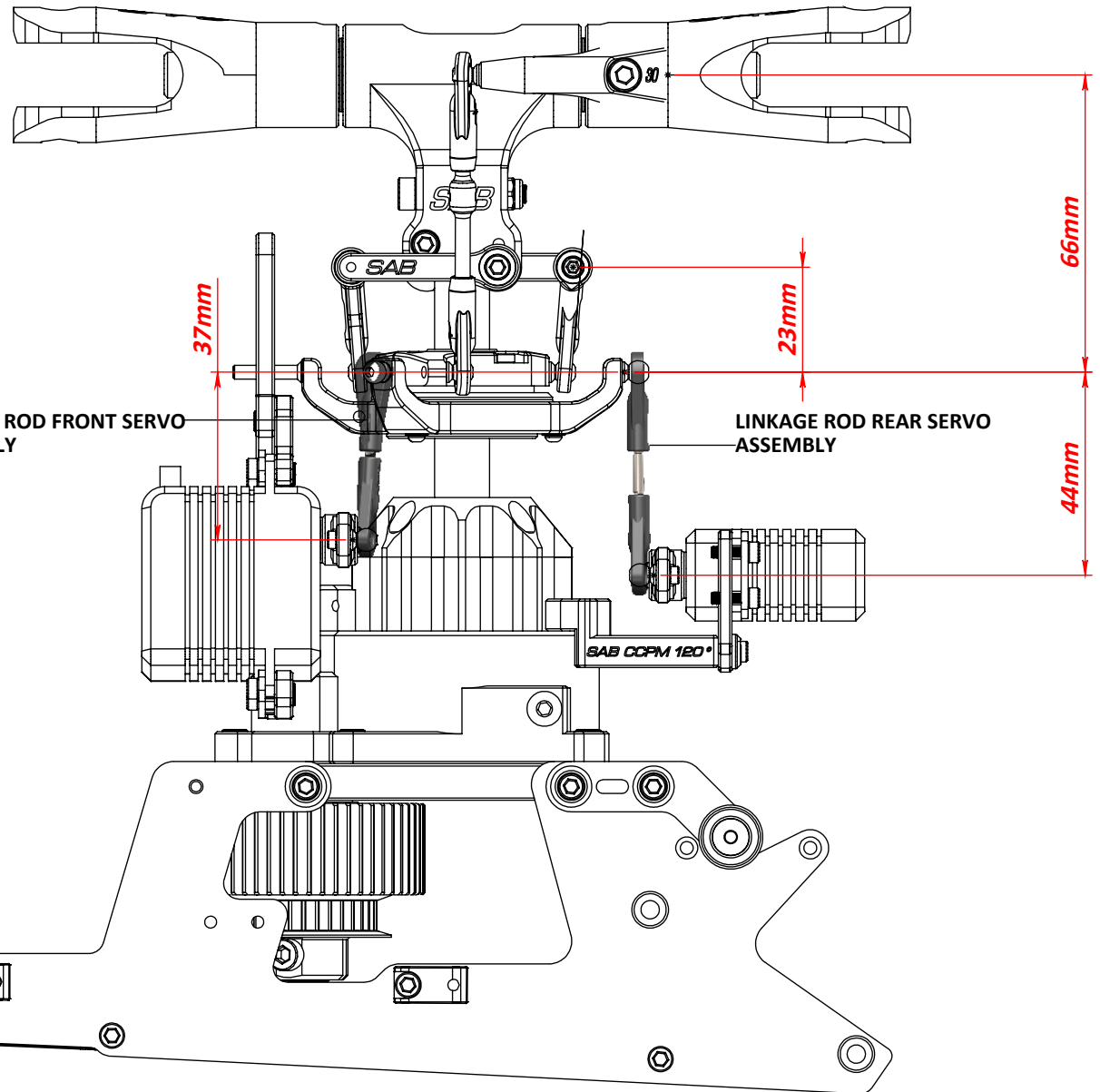
## LINKAGE ROD REAR SERVO ASSEMBLY ... X1

*Approx 53mm*



Set Screw M2.5x28mm  
(HC618-S)

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



## TRANSMISSION SETUP

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 212 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 **11.8:1**

H0175-22-S - **22T** Pinion = ratio **9.6:1**

H0175-19-S - **19T** Pinion = ratio **11.2:1**


H0175-23-S - **23T** Pinion = ratio **9.2:1**

H0175-20-S - **20T** Pinion = ratio **10.6:1**

H0175-24-S - **24T** Pinion = ratio **8.8:1**

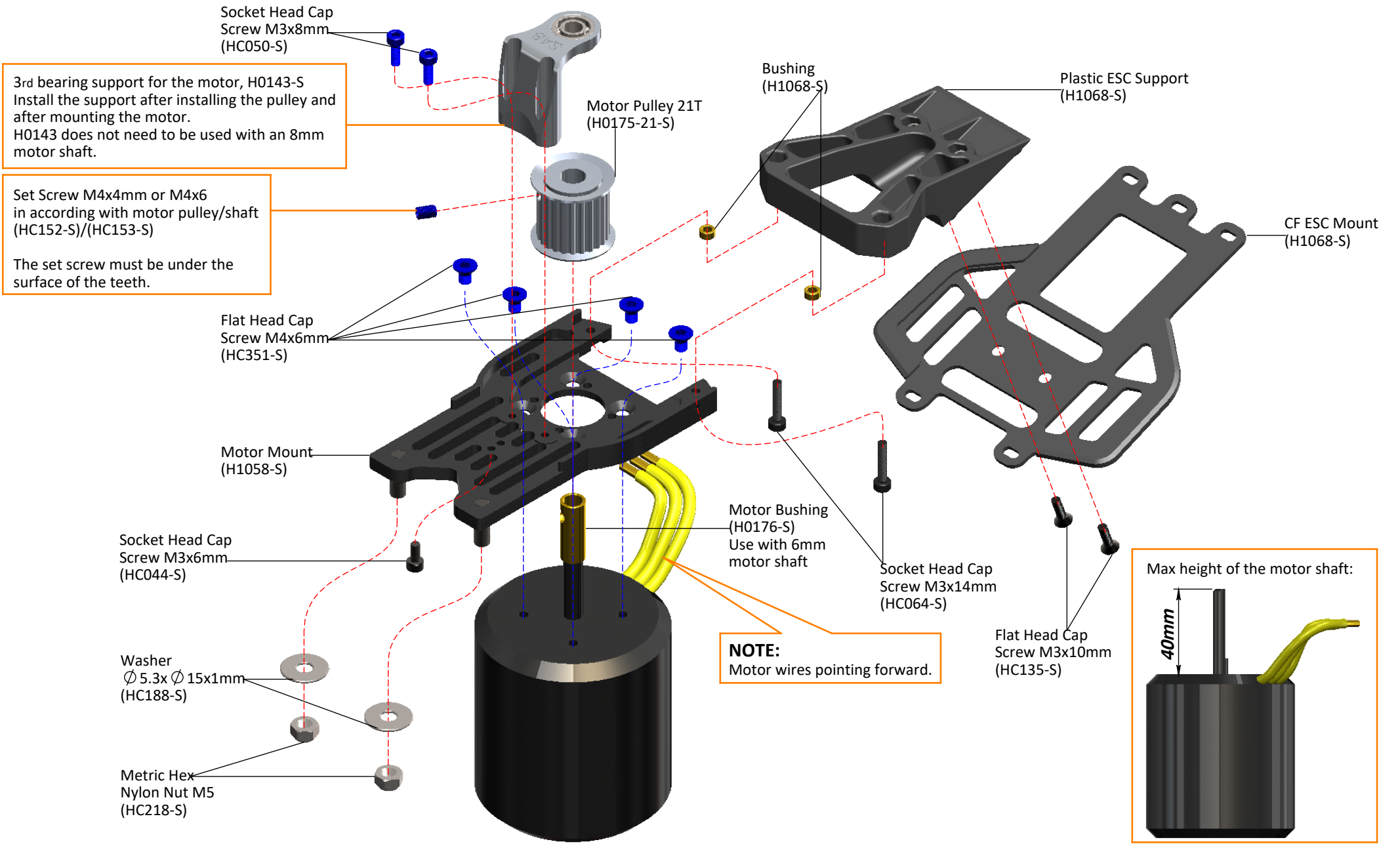
H0175-21-S - **21T** Pinion = ratio **10.1:1**

H0175-25-S - **25T** Pinion = ratio **8.4:1**

GOBLIN KRAKEN RAW CONFIGURATIONS					
Battery	Motor	ESC	Pinion (a, b)	RPM Max (a, b)	Pitch
<b>12S</b> <b>4200/5500 mAh</b>	Xnova 4525-530kv lightning	HW-200A	<b>21T / 22T</b>	<b>2100/2200</b>	± 12
	Pyro 750-560 TENGU 4525HT/550KV	Kosmik 160 YGE 205HVT	<b>20T / 21T</b>		
	Scorpion HKII 4525-520 UL	SCORPION II 14-200A	<b>22T / 23T</b>		
<b>12S</b> <b>4500/5500 mAh</b>	Xnova 4530-525kv lightning	HW-200A	<b>22T / 23T</b>	 <b>2200/2300</b>	± 13
	Pyro 800-480	Kosmik 200 YGE 205HVT	<b>24T / 25T</b>		
	Scorpion HKII 4530-540 TENGU 4525HT/550KV	SCORPION II 14-200A	<b>21T / 22T</b>		

Rev:01

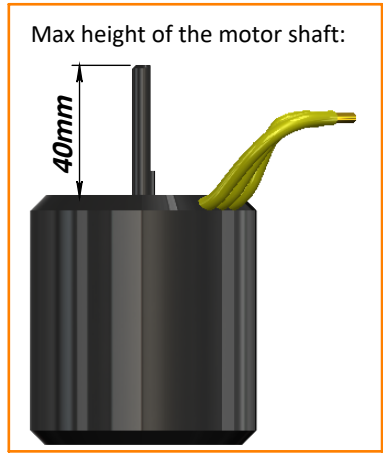


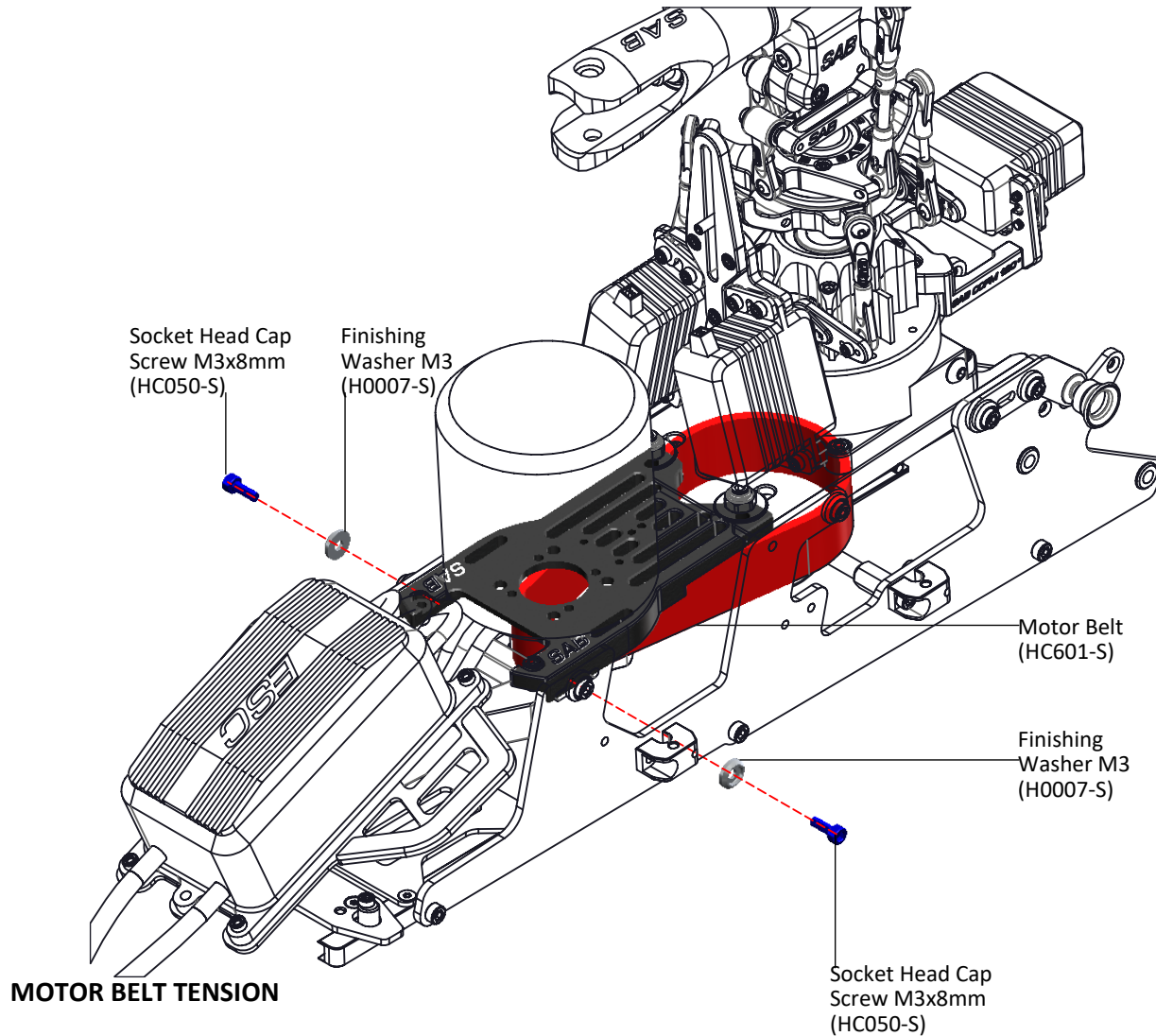


3rd bearing support for the motor, H0143-S  
Install the support after installing the pulley and after mounting the motor.  
H0143 does not need to be used with an 8mm motor shaft.

Set Screw M4x4mm or M4x6  
in according with motor pulley/shaft  
(HC152-S)/(HC153-S)  
  
The set screw must be under the  
surface of the teeth.

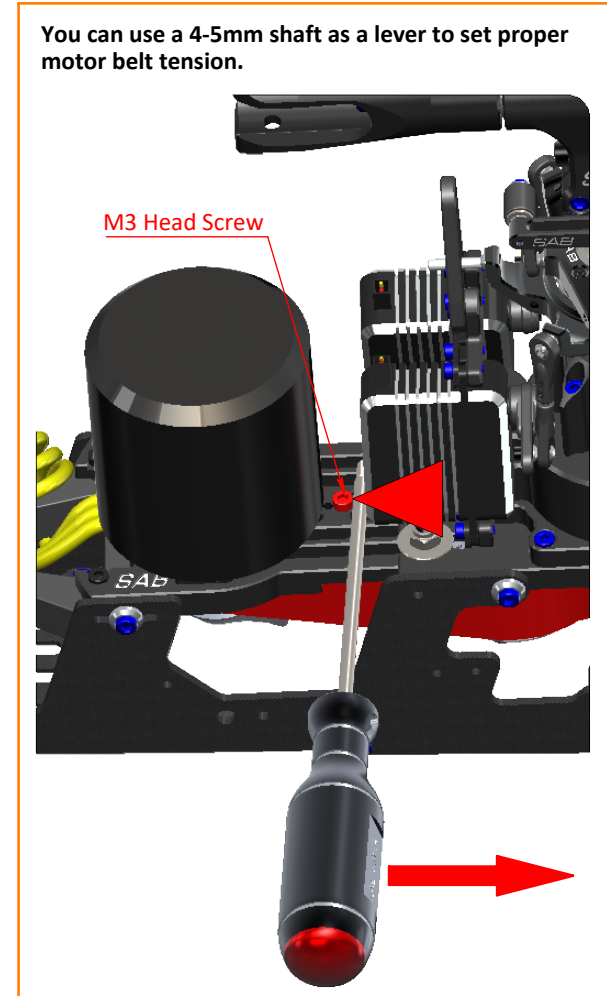
**NOTE:**  
Motor wires pointing forward.

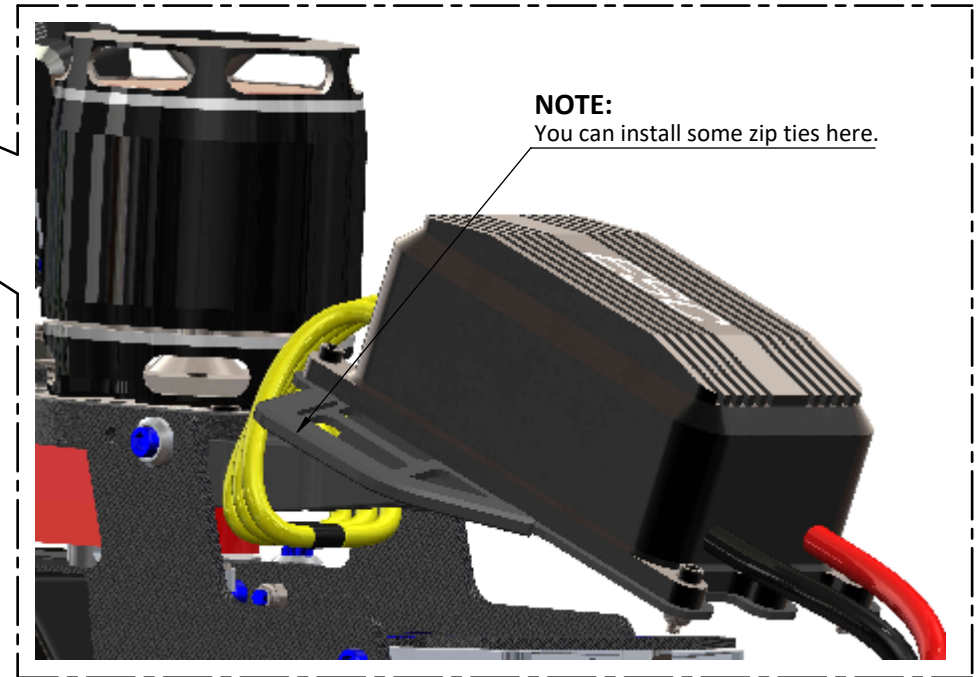
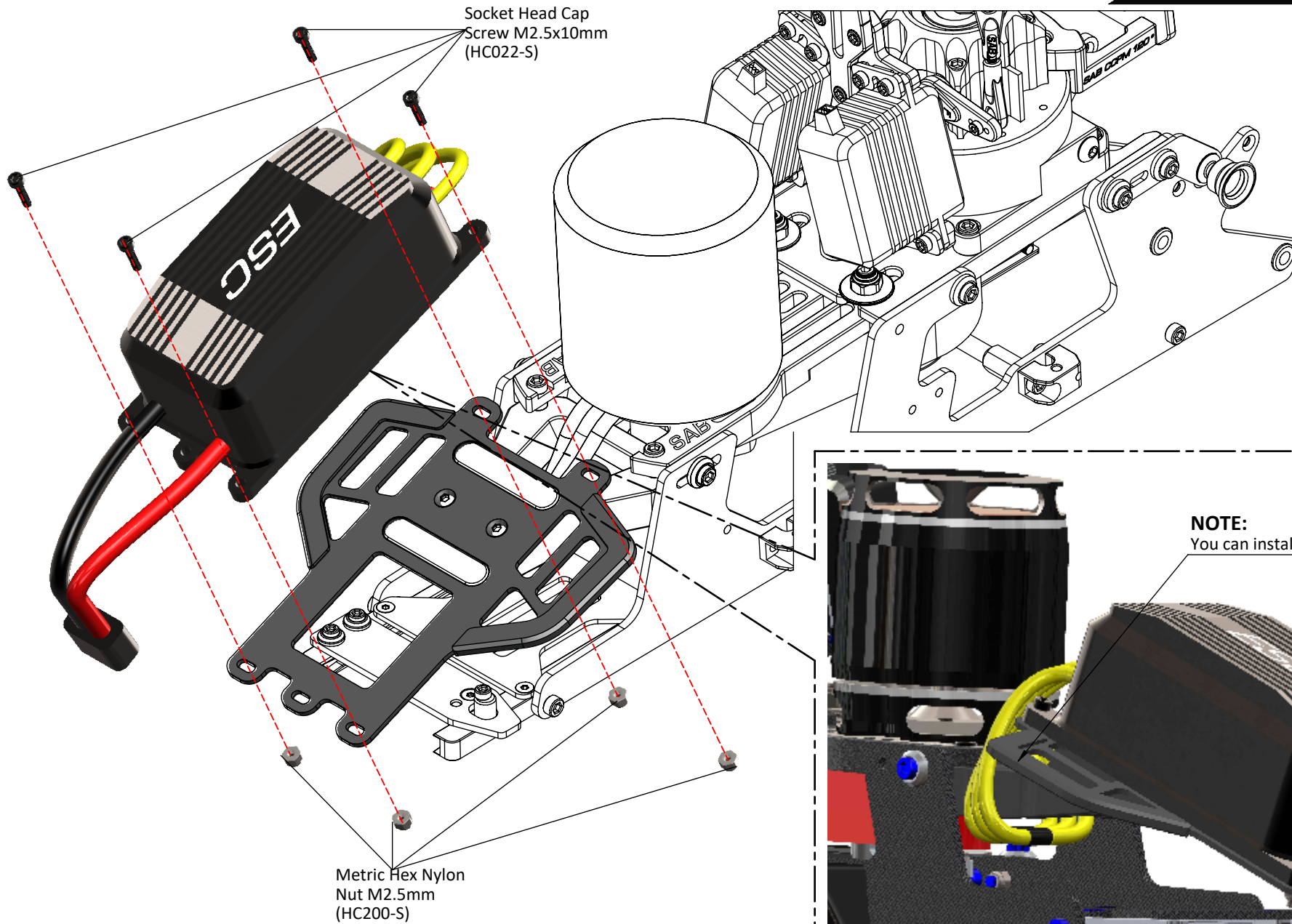




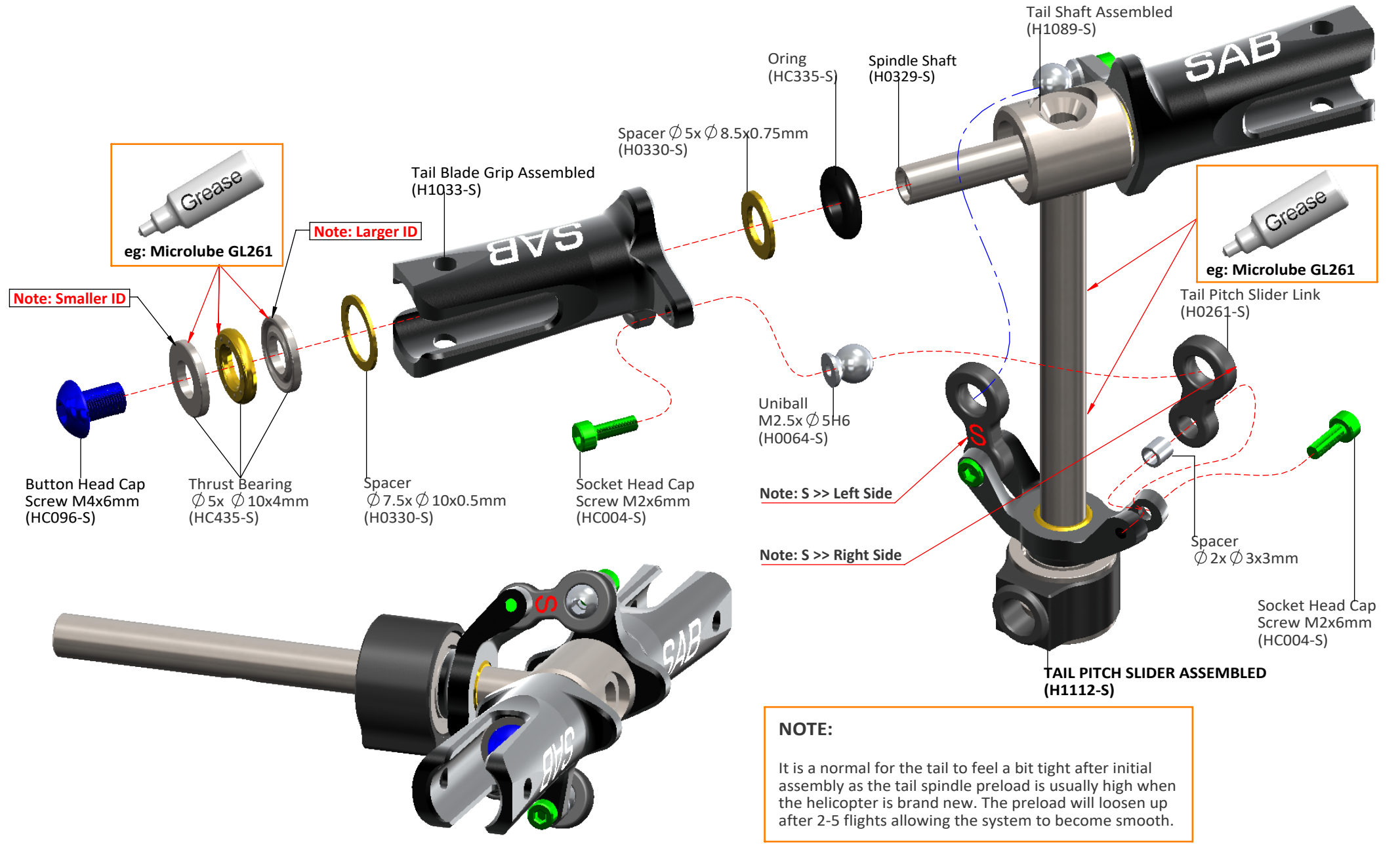
**MOTOR BELT TENSION**

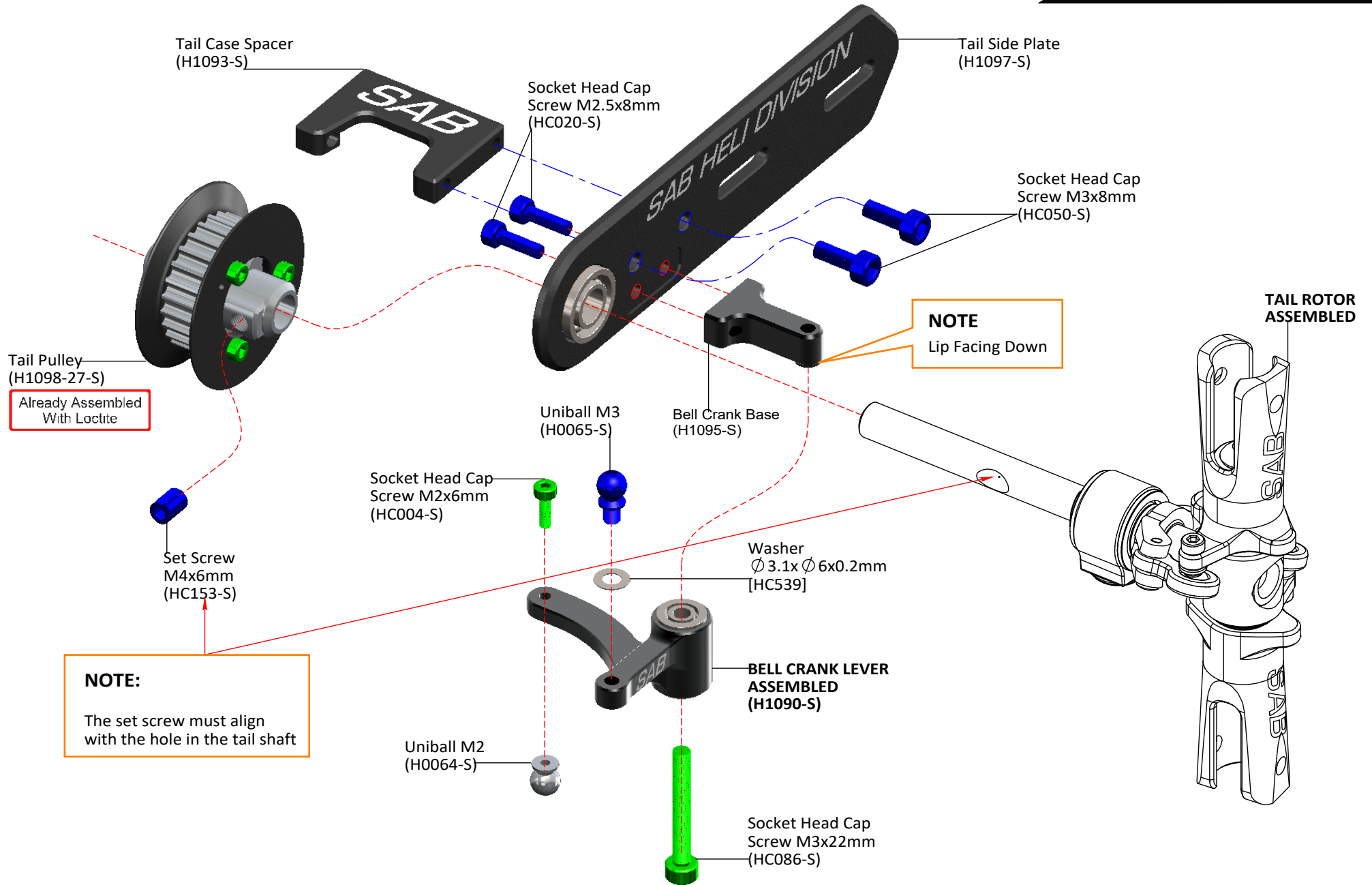
- \*Fit the motor assembly into position.
- \*Move it to the minimum centre distance.
- \*First put the belt on the motor pinion.
- \*Then put the belt around the big pulley.
- \*Rotate the motor several times by hand.
- \*Pull on the motor mount to tension the belt.
- \*Rotate again the motor several times by hand.
- \*Provide the correct force, and properly tension the belt.
- \*Tighten the M5 nuts first, then the (2) M3 screws later.





FOAM 2, BAG 12





**BAG 14**

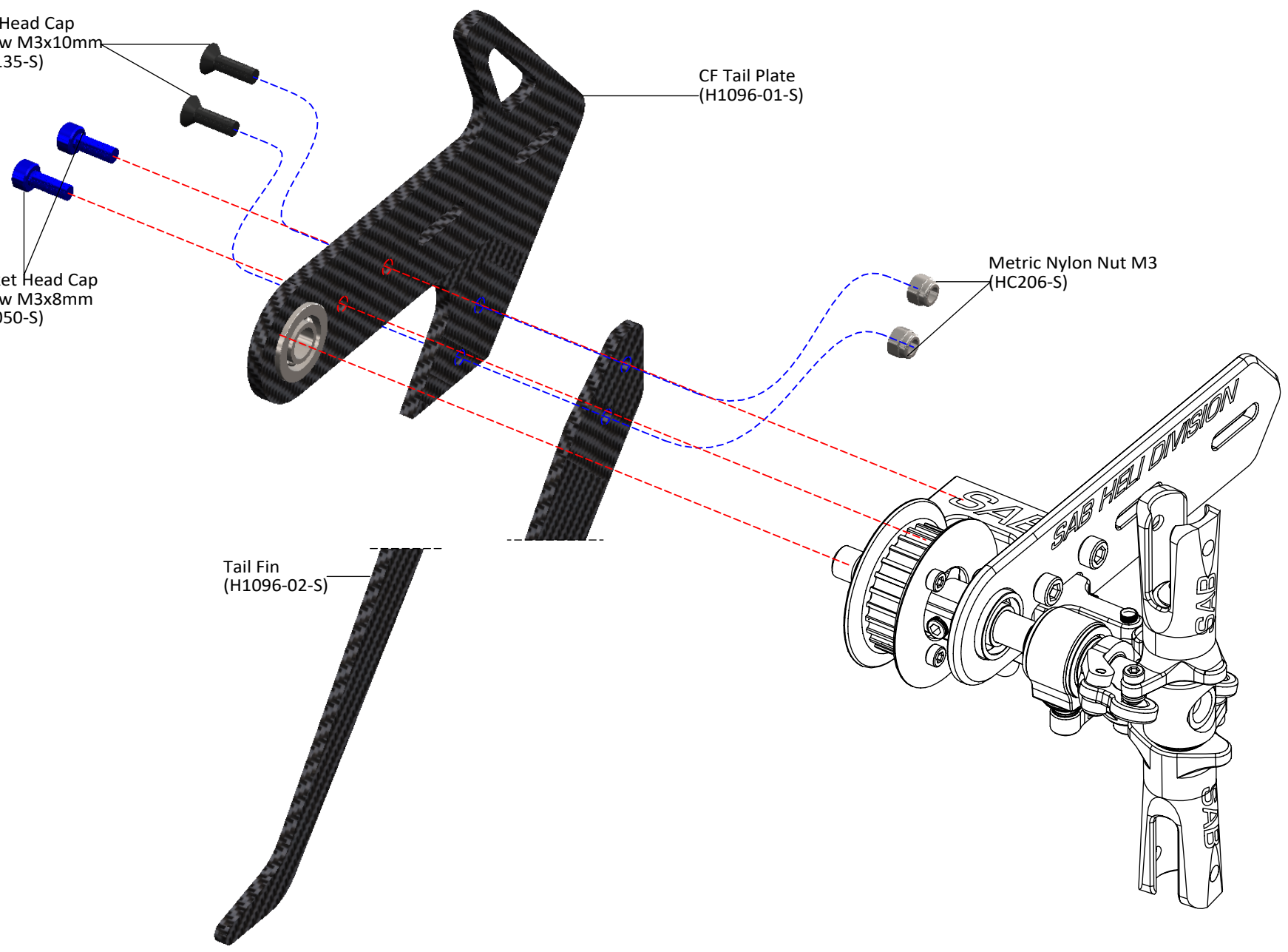
Flat Head Cap  
Screw M3x10mm  
(HC135-S)

Socket Head Cap  
Screw M3x8mm  
(HC050-S)

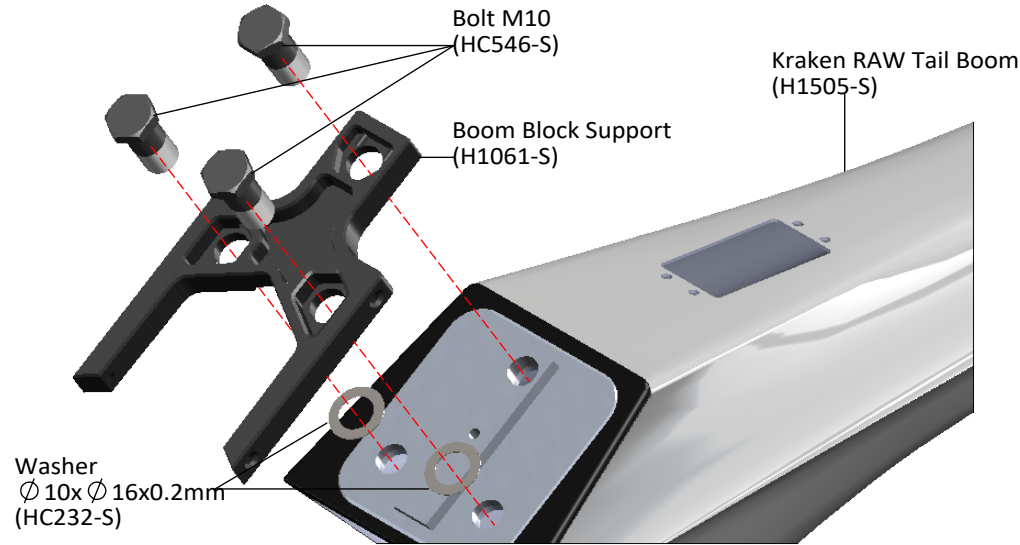
CF Tail Plate  
(H1096-01-S)

Metric Nylon Nut M3  
(HC206-S)

Tail Fin  
(H1096-02-S)

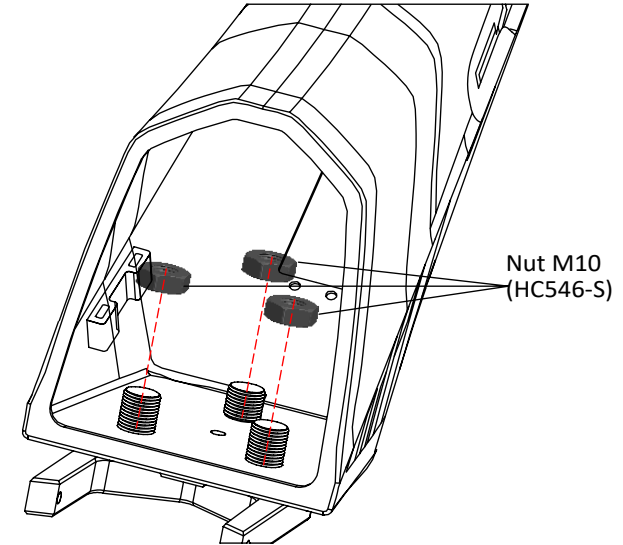


1

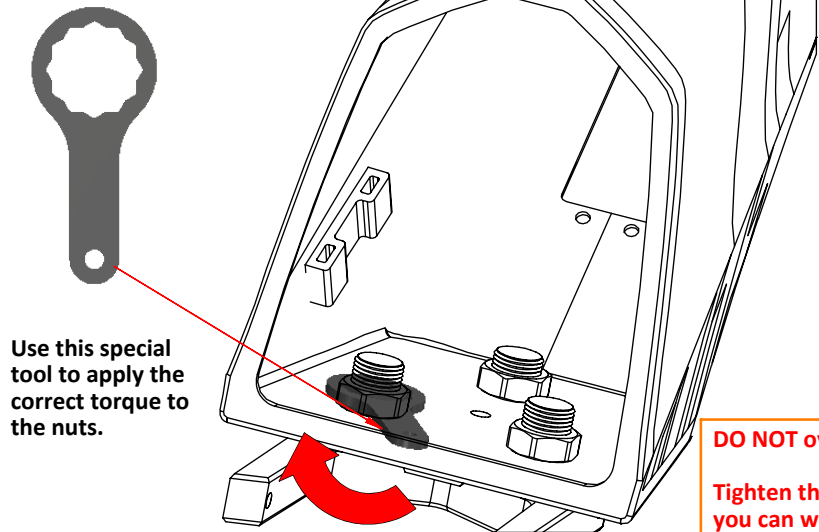


2

FOAM 1, BAG 15



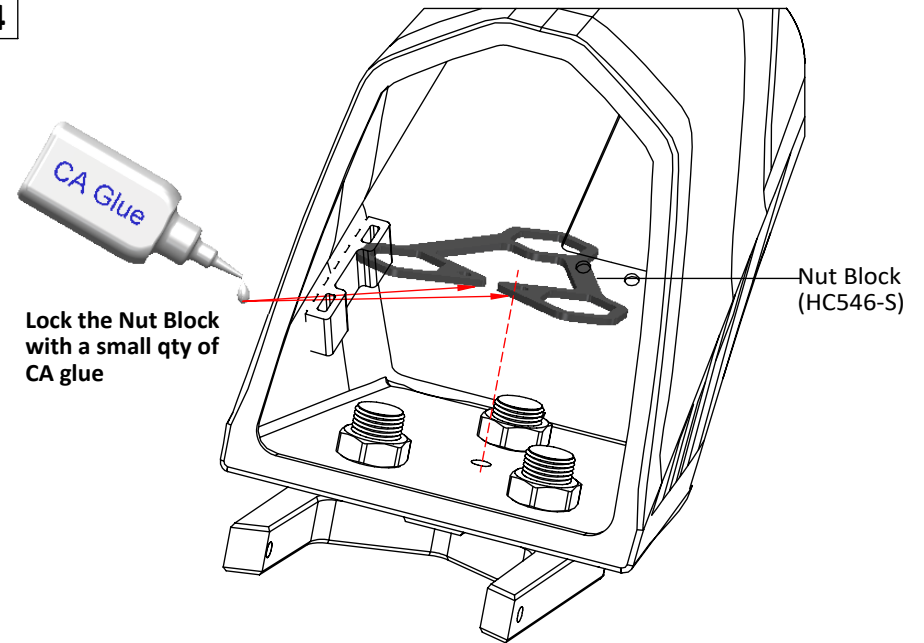
3



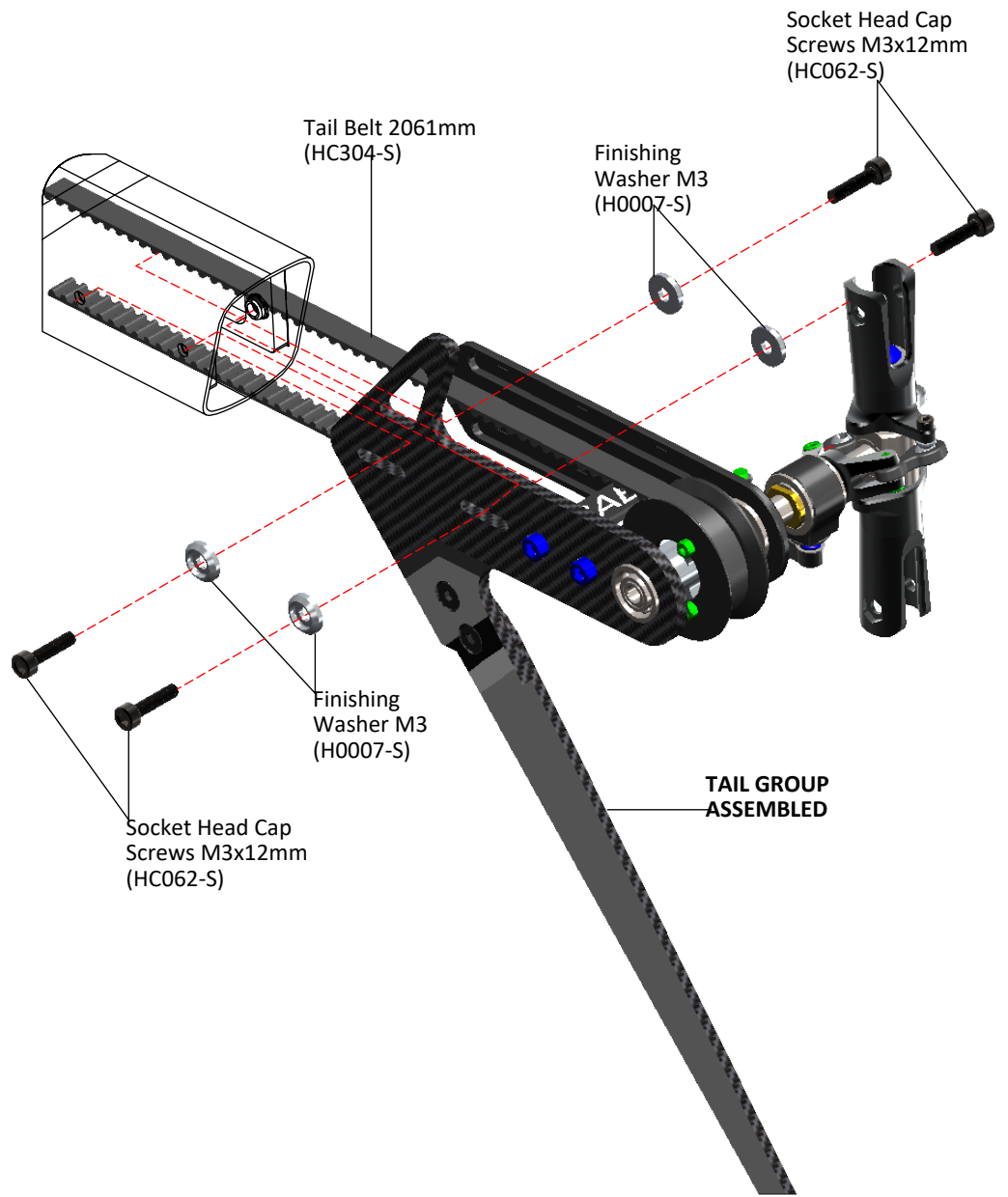
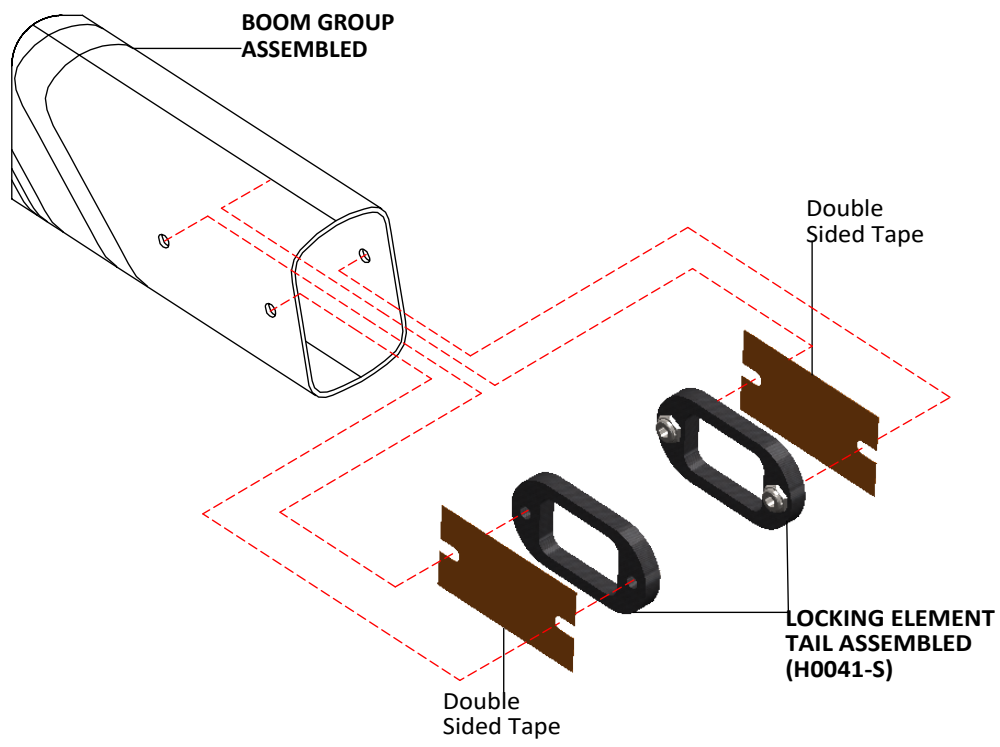
**DO NOT over tighten the screw.**

**Tighten the bolts as tight as you can with your fingers, then add 2 quarter turns to finish tightening them.**

4

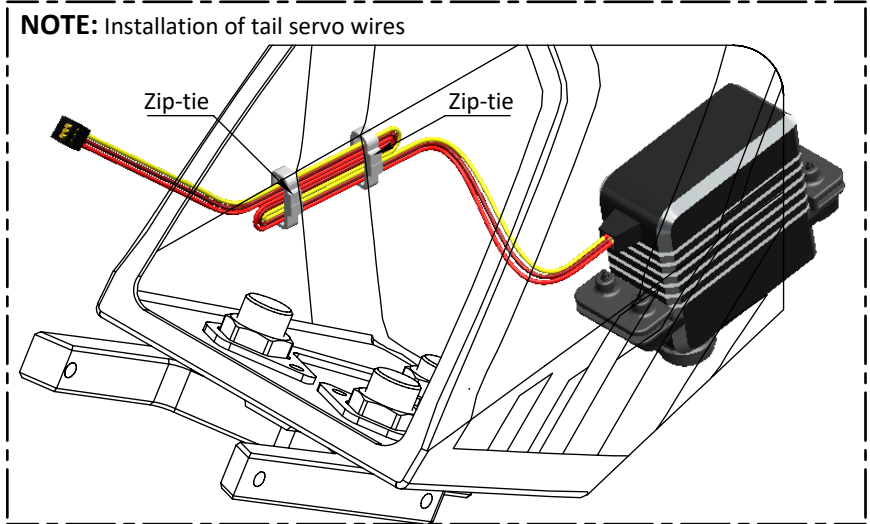
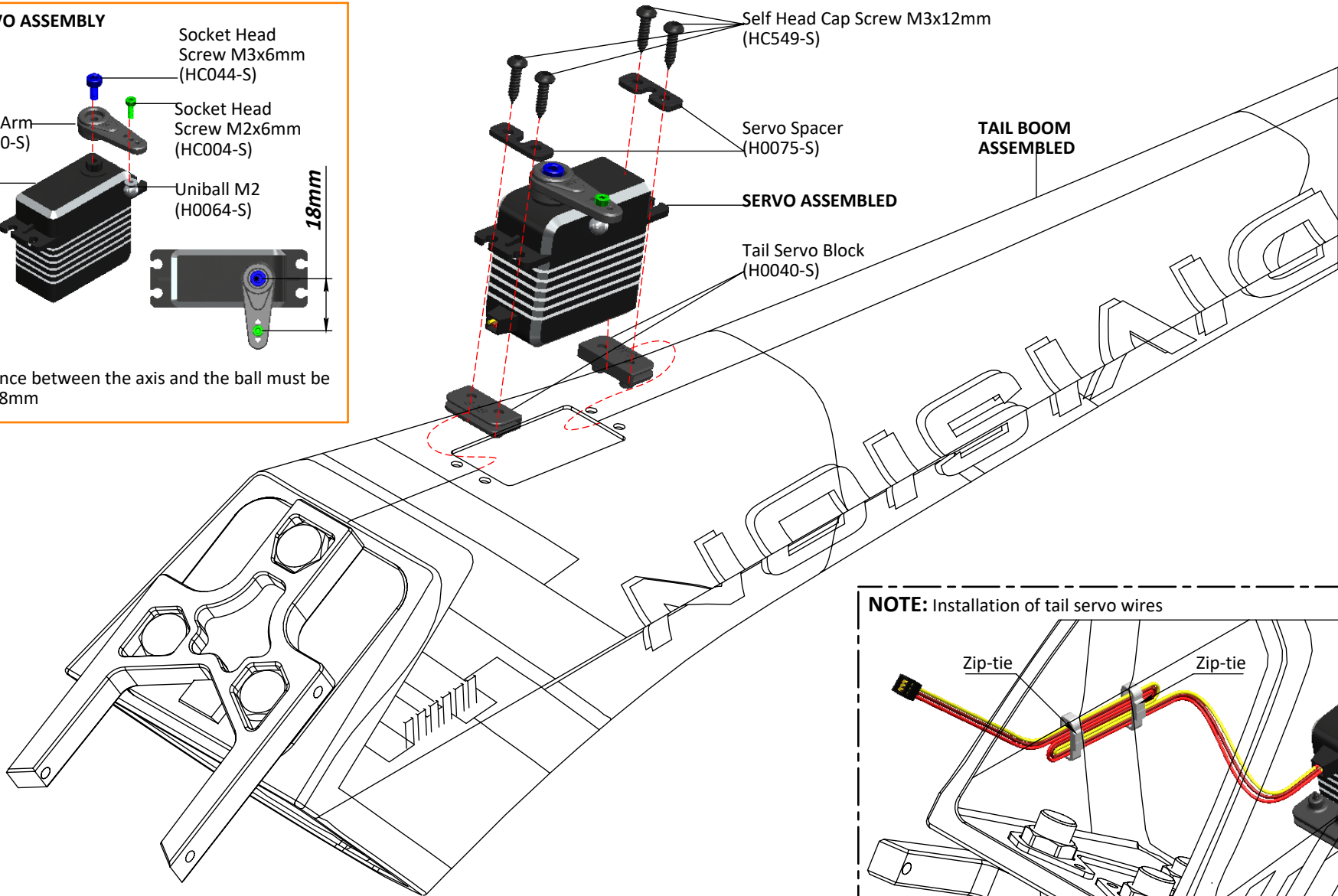
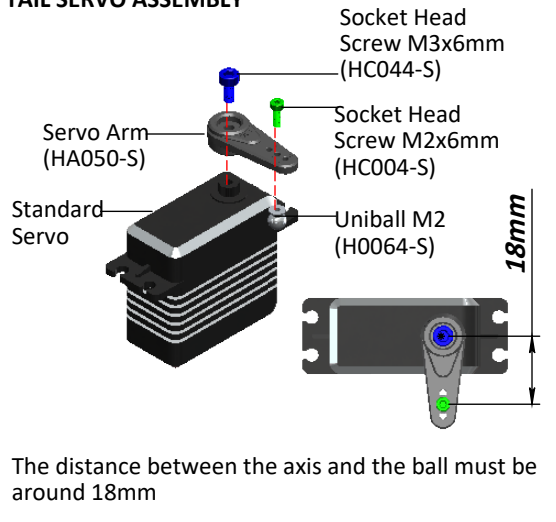


**BAG 16**

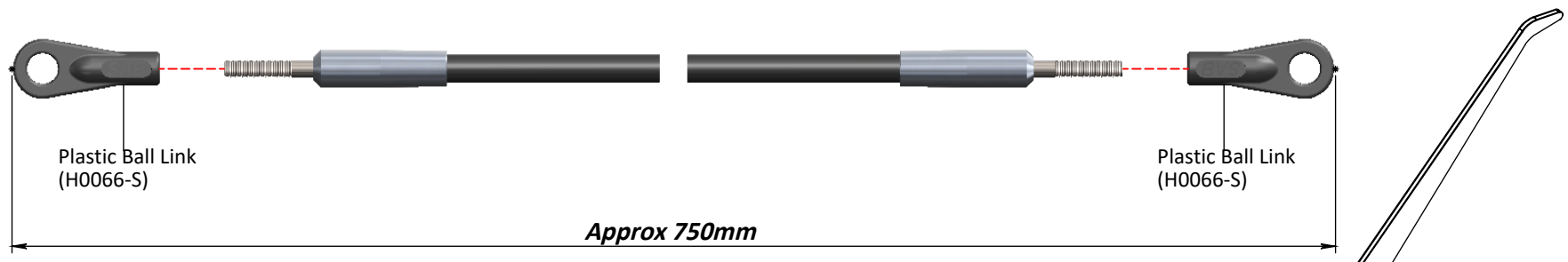




## TAIL SERVO ASSEMBLY



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.



**NOTE:**

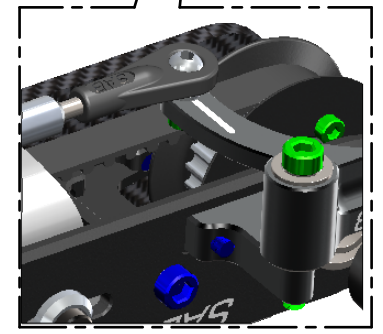
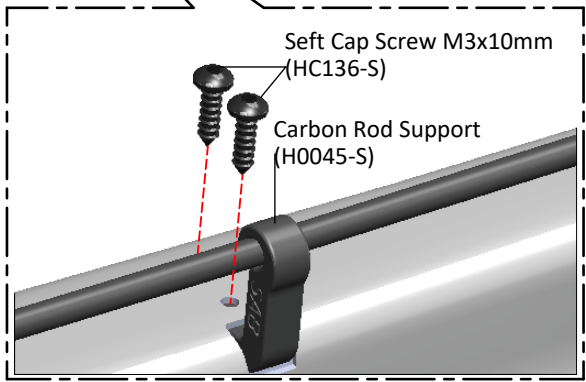
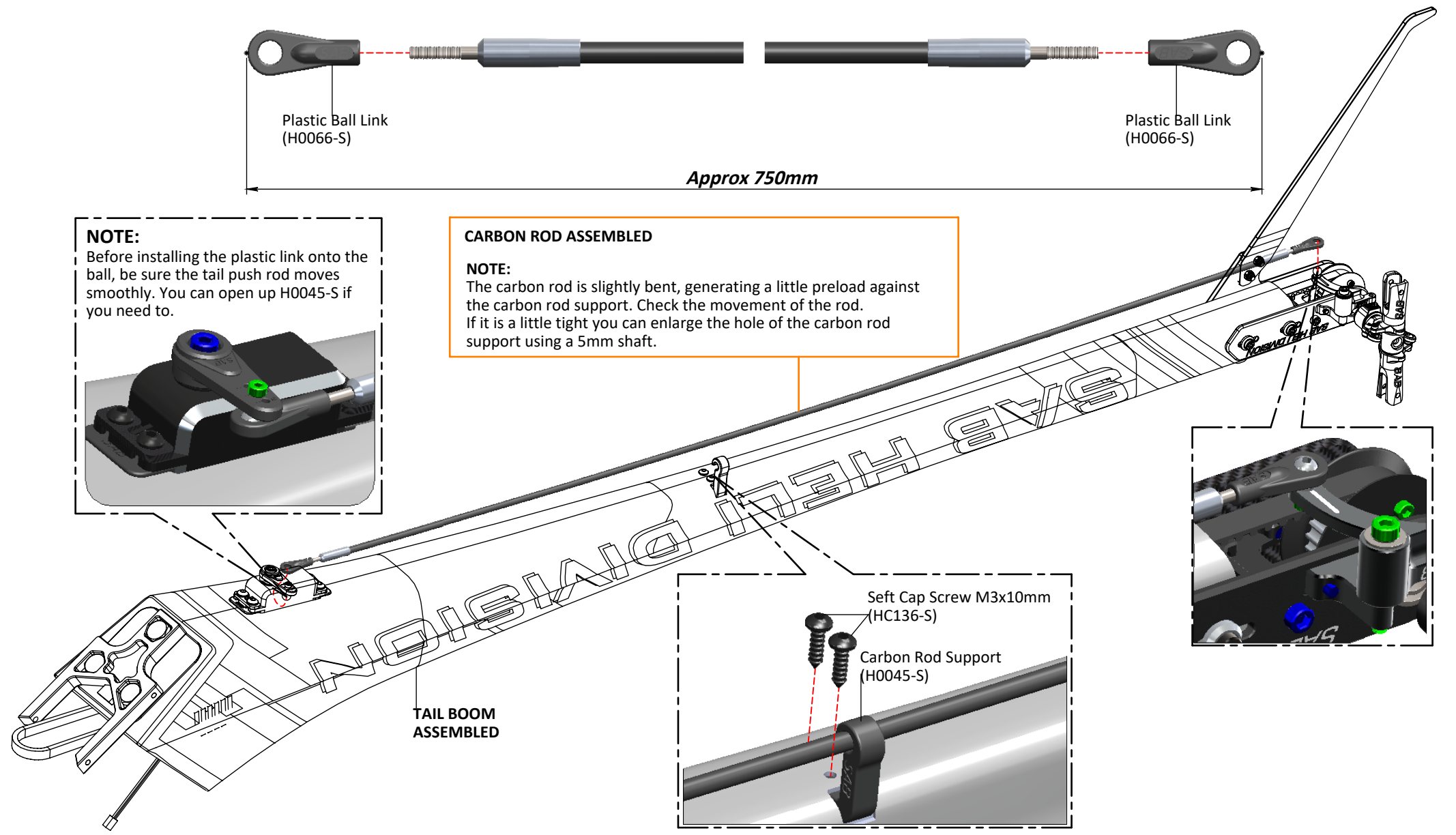
Before installing the plastic link onto the ball, be sure the tail push rod moves smoothly. You can open up H0045-S if you need to.



**CARBON ROD ASSEMBLED**

**NOTE:**

The carbon rod is slightly bent, generating a little preload against the carbon rod support. Check the movement of the rod. If it is a little tight you can enlarge the hole of the carbon rod support using a 5mm shaft.



## BAG 1 B

### TAIL BOOM ASSEMBLY

To fit the tail belt, loosen the tail case by loosening the 4 M3 screws (**Figure 1**).

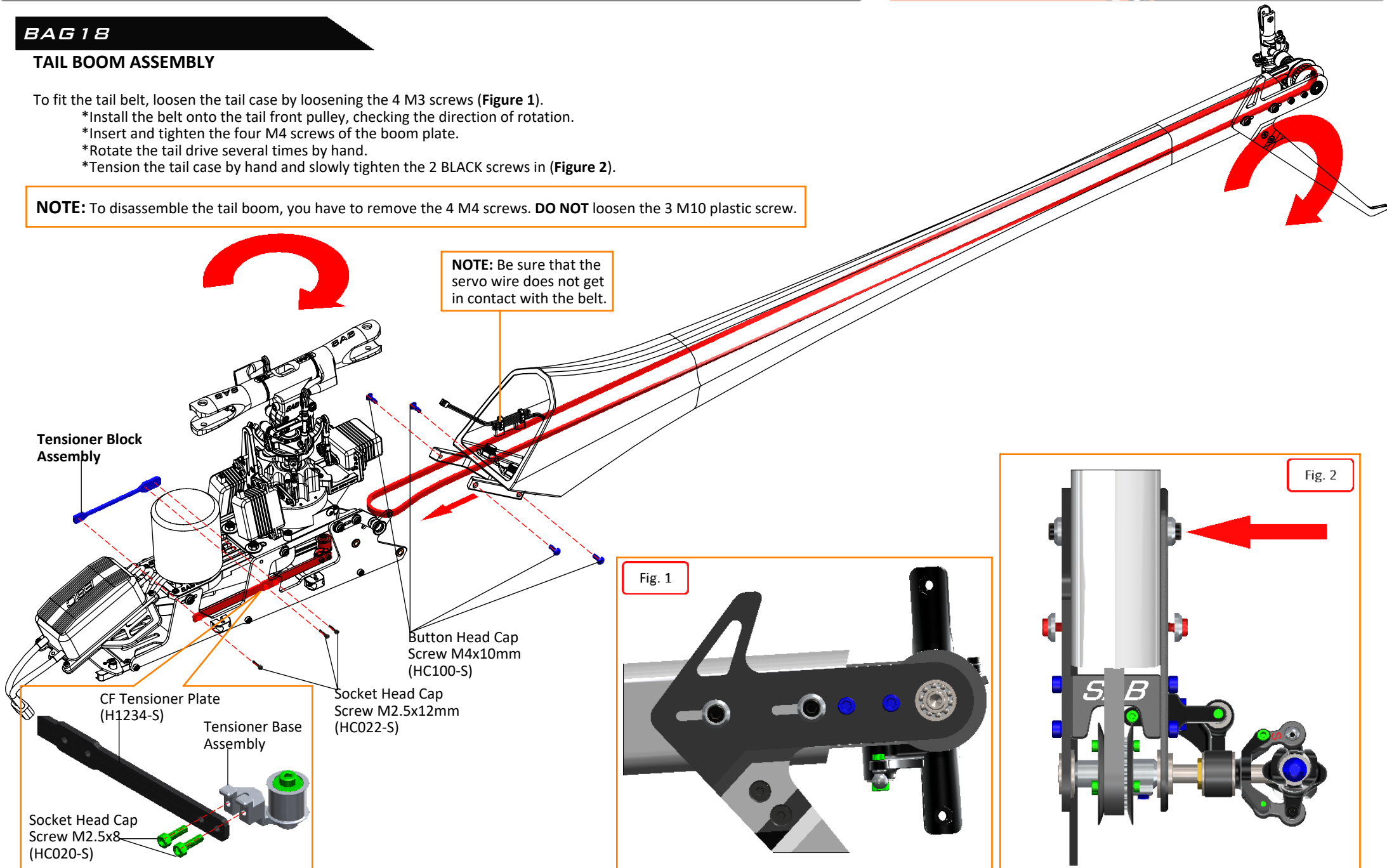
\*Install the belt onto the tail front pulley, checking the direction of rotation.

\*Insert and tighten the four M4 screws of the boom plate.

\*Rotate the tail drive several times by hand.

\*Tension the tail case by hand and slowly tighten the 2 BLACK screws in (**Figure 2**).

**NOTE:** To disassemble the tail boom, you have to remove the 4 M4 screws. **DO NOT** loosen the 3 M10 plastic screw.



Tensioner Block Assembly

Button Head Cap Screw M4x10mm (HC100-S)

Socket Head Cap Screw M2.5x12mm (HC022-S)

CF Tensioner Plate (H1234-S)

Tensioner Base Assembly

Socket Head Cap Screw M2.5x8 (HC020-S)

Fig. 1

Fig. 2

## TAIL BELT TENSION

To provide the correct tail belt tension, you can use the "zig-zag" method.

**Figure 1**, Loosen the 2 **RED** screws and the **BLUE** and push the tail side in according with red arrow. Tighten the **BLUE** screw while you are pushing.

**Figure 2**, Loosen the 2 **RED** screws and the **YELLOW** and push the tail side in according with red arrow. Tighten the **YELLOW** screw while you are pushing.

You can proceed step by step until the tail belt is tight enough.

Hard 3D style will require more tension; Sport flight style less.

When you set your perfect tension, you can tighten all screws making sure the tail shaft is perfectly straight.

(**Figure 3**, tail output shaft have to be perpendicular to the boom mid line ).

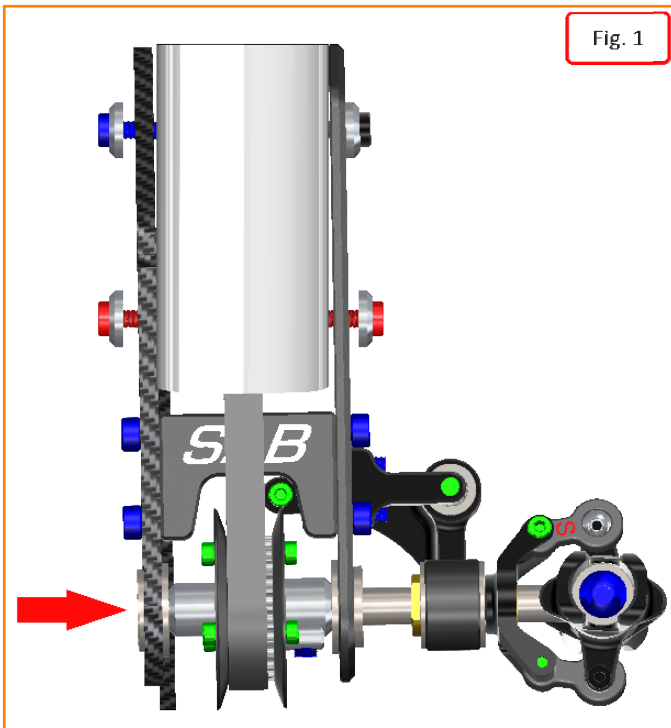


Fig. 1

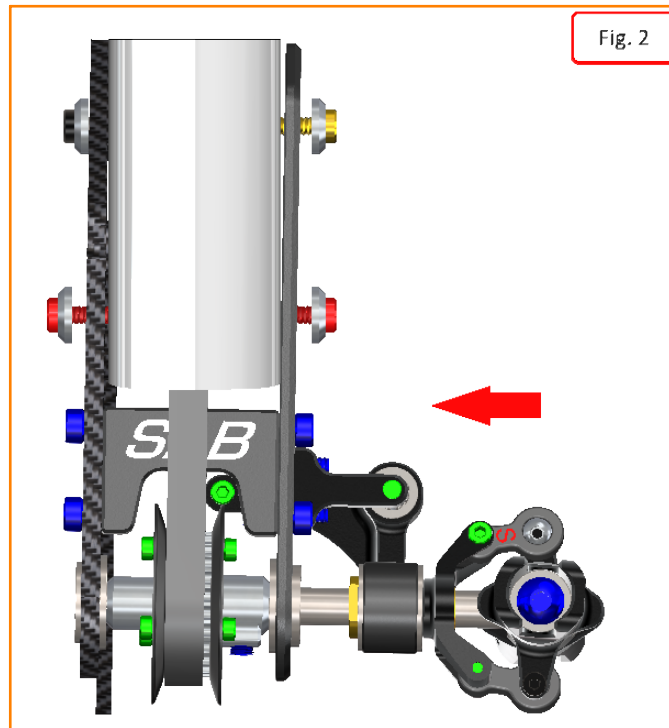


Fig. 2

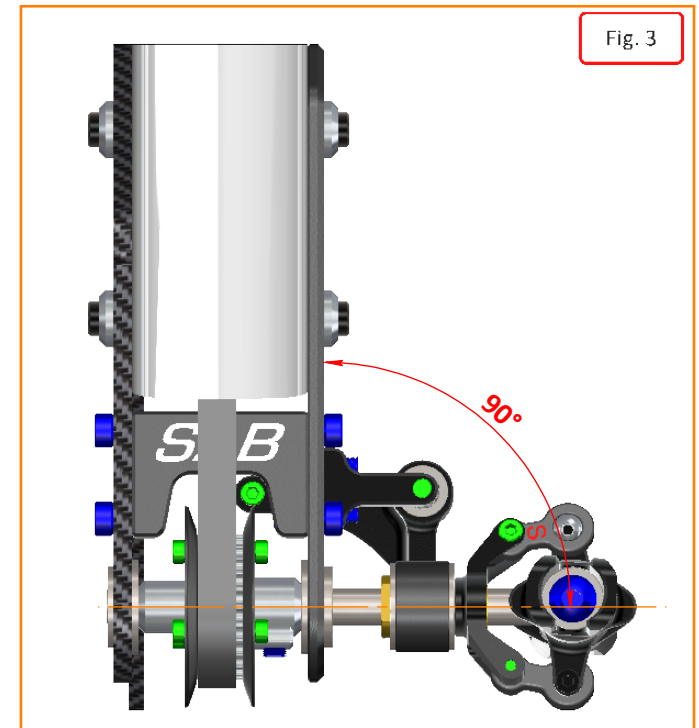
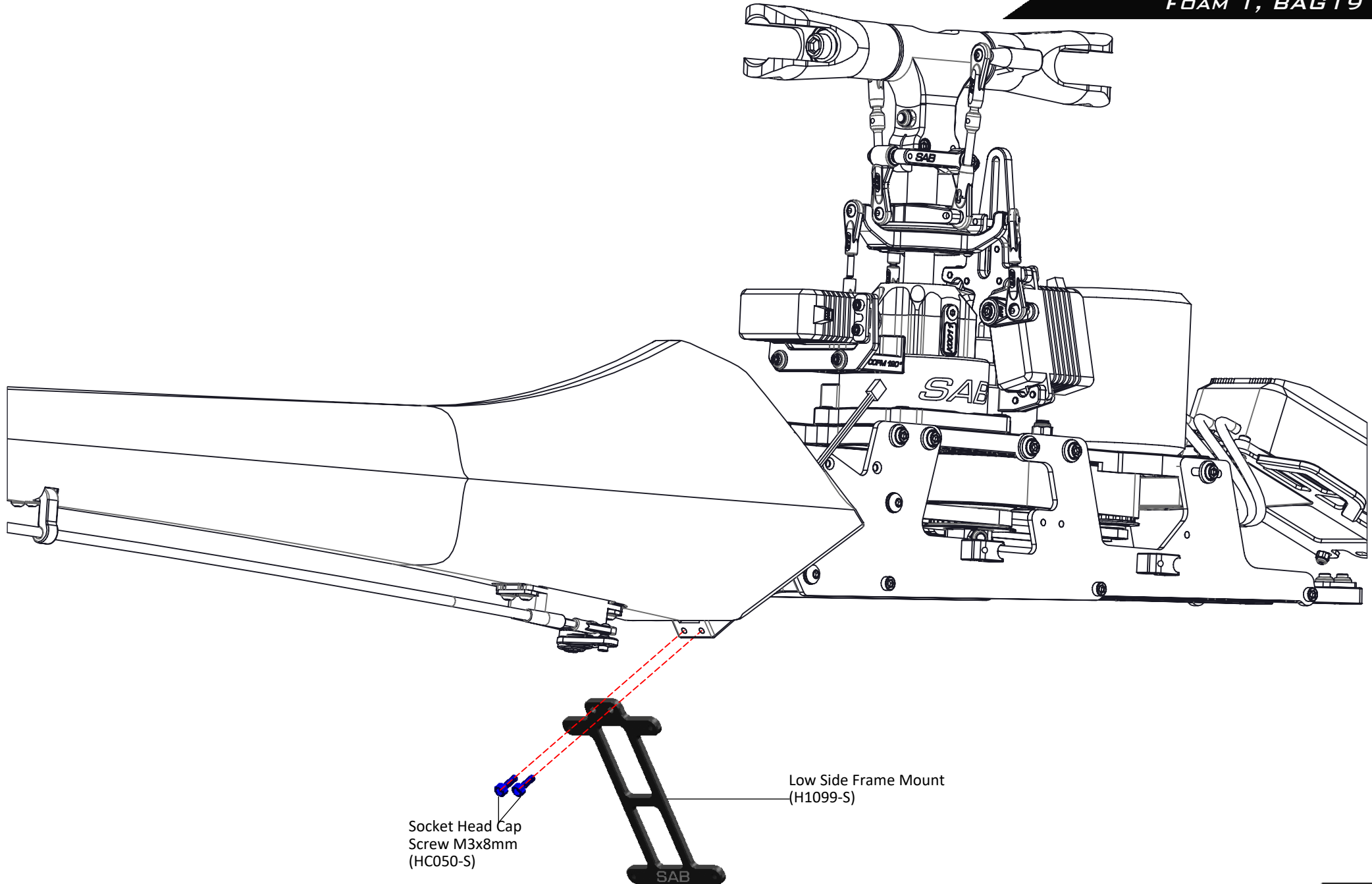
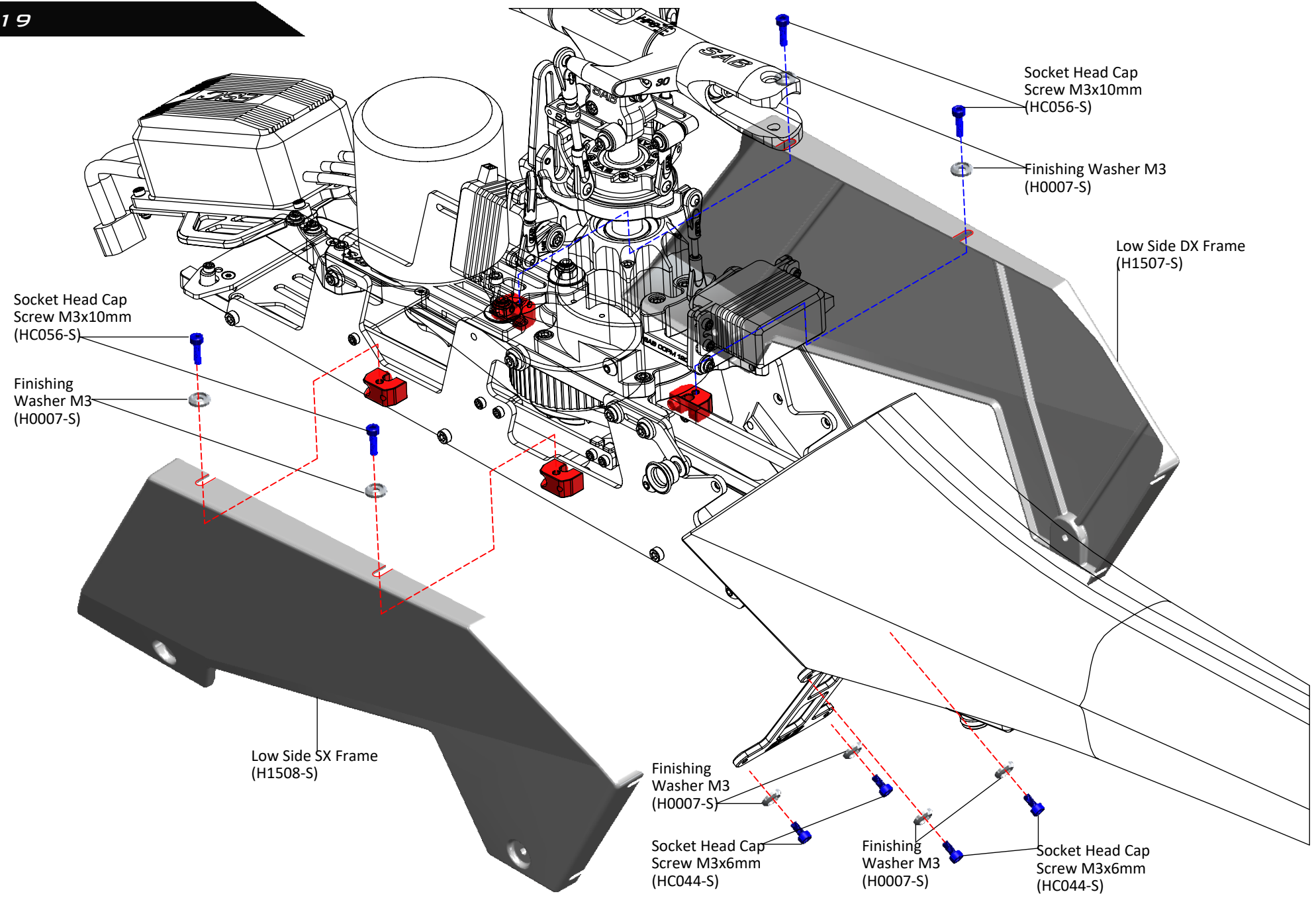
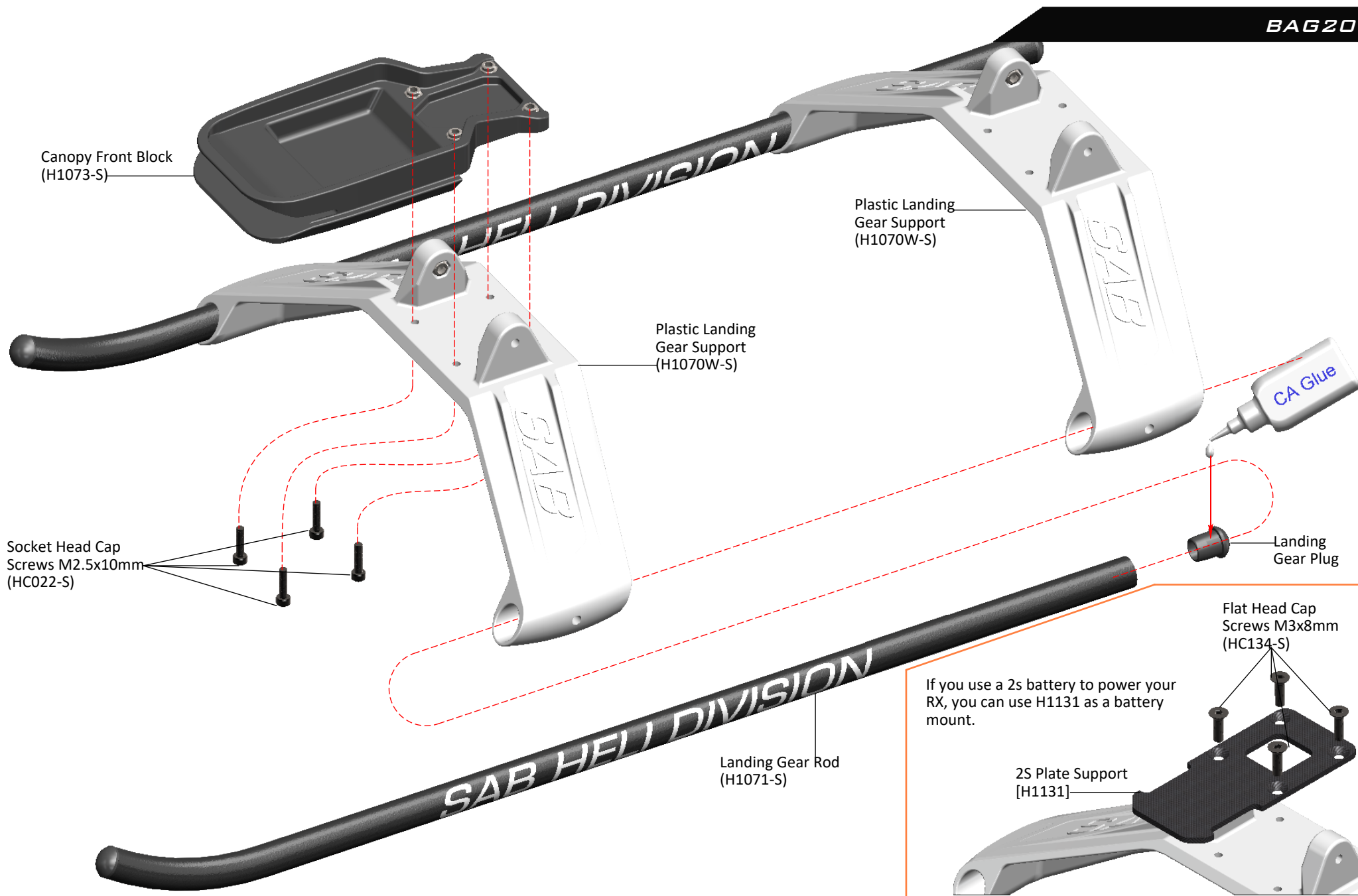


Fig. 3



**BAG 19**





Canopy Front Block  
(H1073-S)

Plastic Landing  
Gear Support  
(H1070W-S)

Plastic Landing  
Gear Support  
(H1070W-S)

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

Landing  
Gear Plug

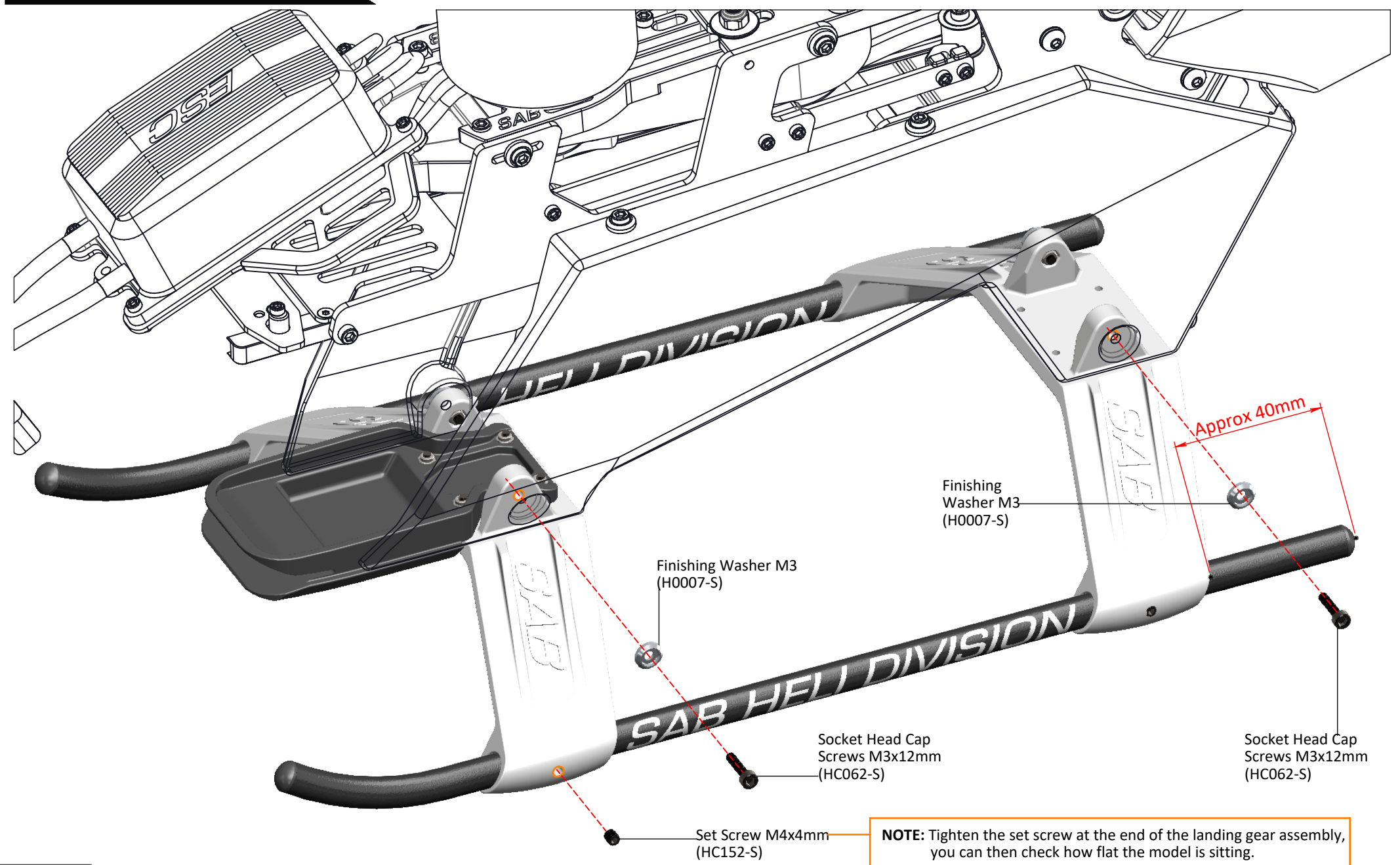
Flat Head Cap  
Screws M3x8mm  
(HC134-S)

If you use a 2s battery to power your  
RX, you can use H1131 as a battery  
mount.

2S Plate Support  
[H1131]

Landing Gear Rod  
(H1071-S)

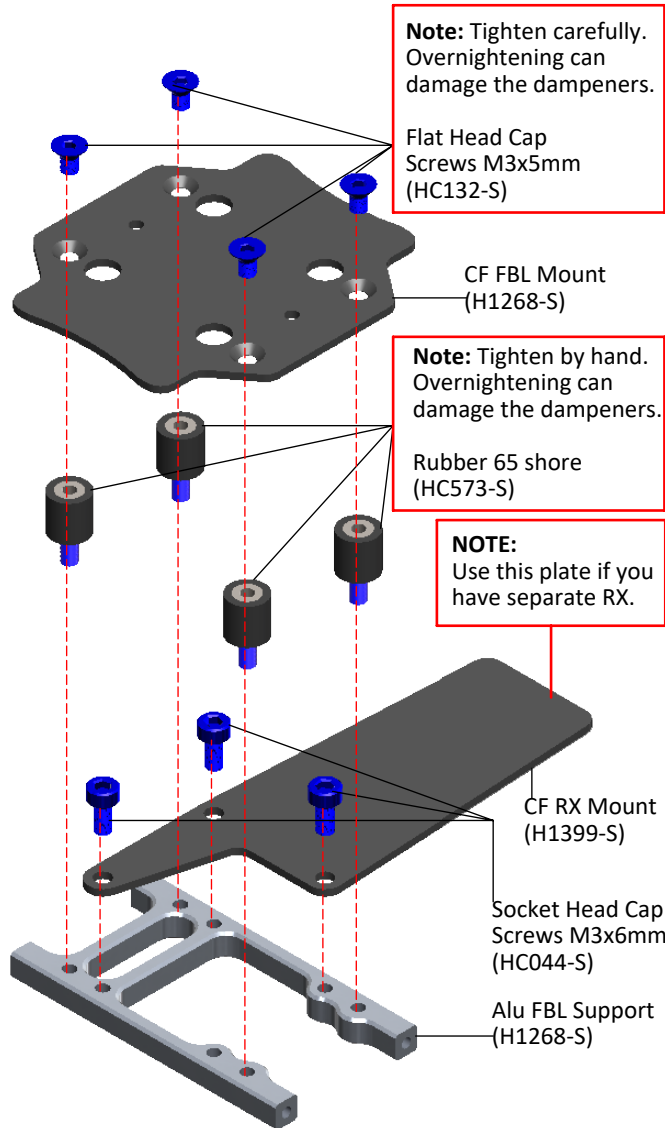
**BAG 21**



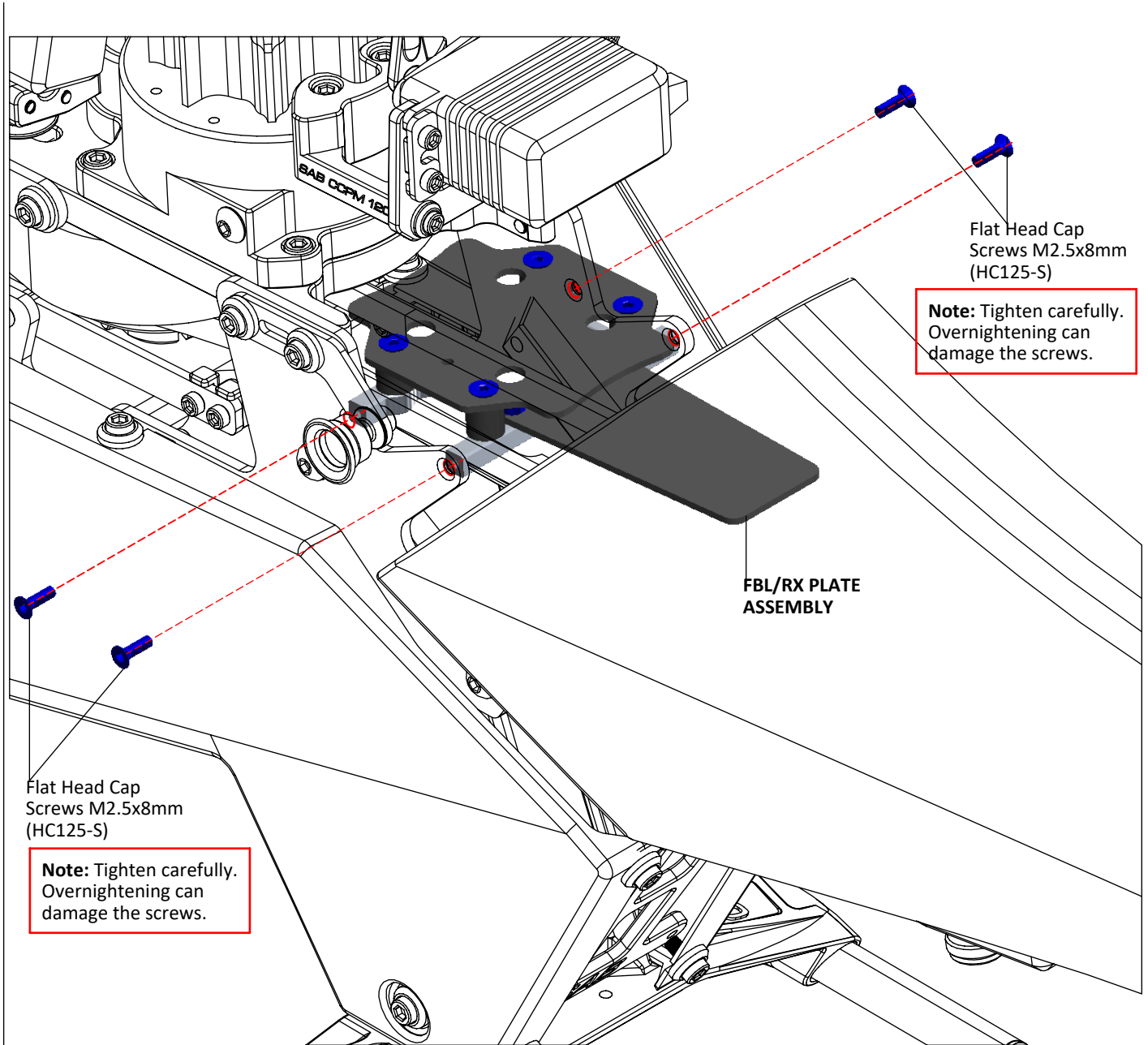


## FBL/RX PLATE ASSEMBLY

**NOTE:** 2mm thick tape for the gyro is recommended.

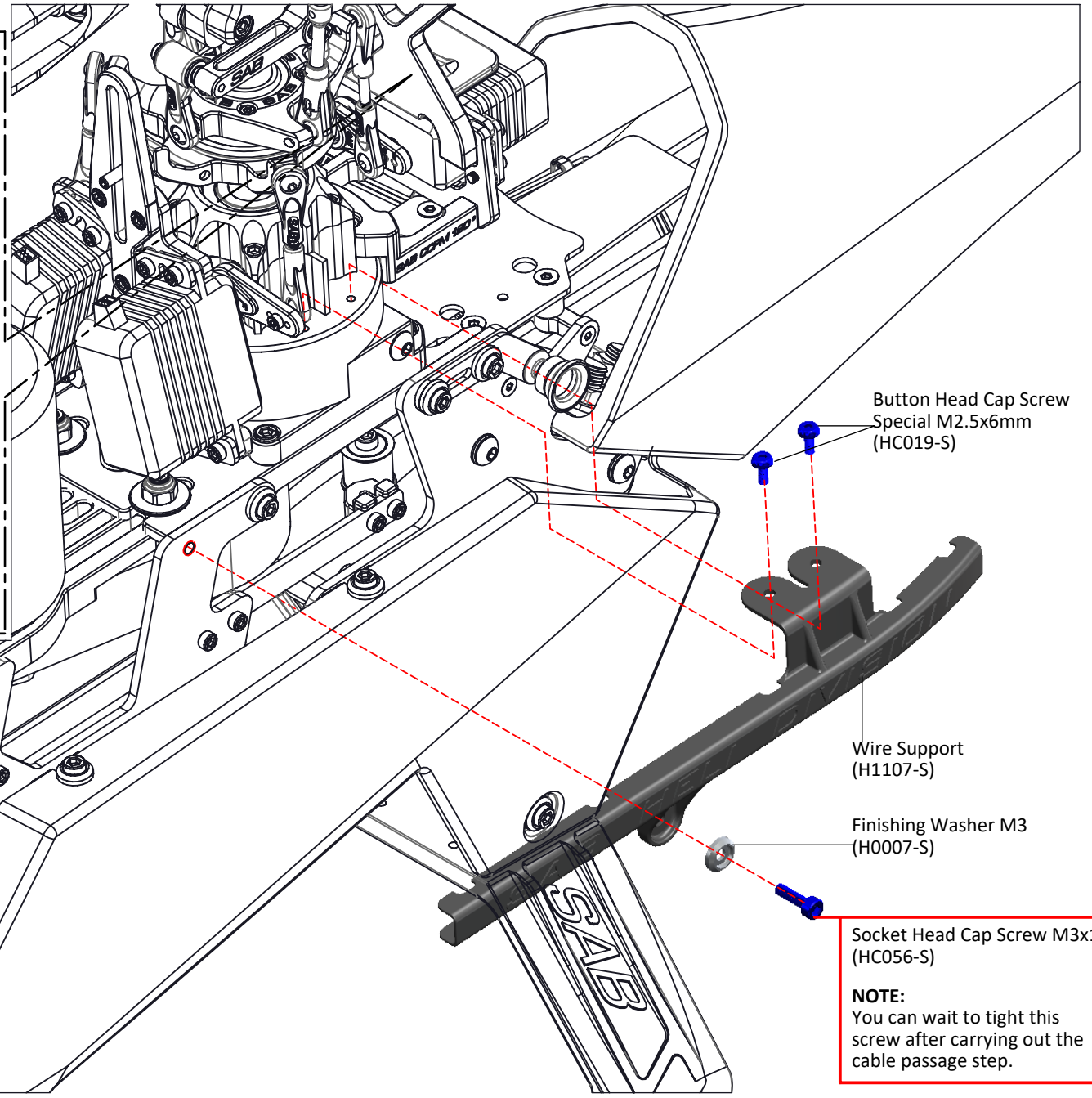
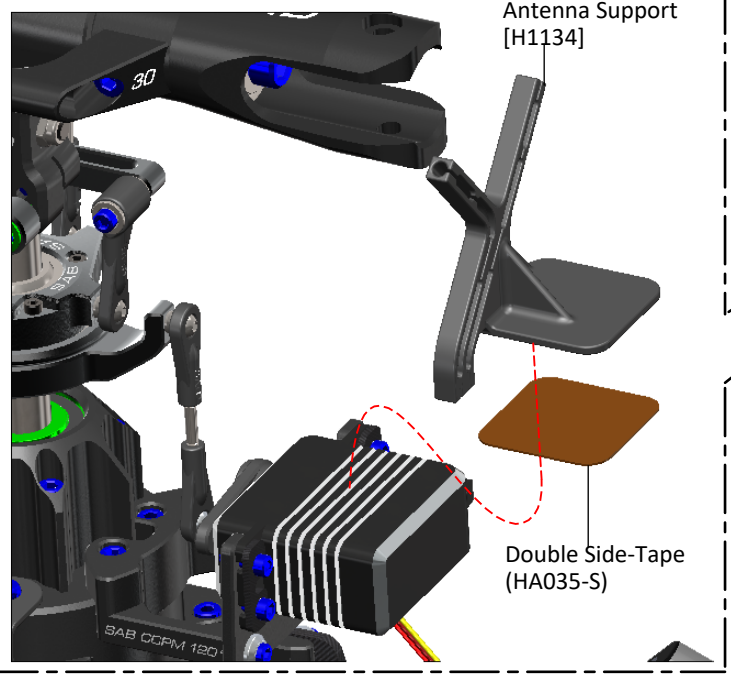


If you do not want to use the dampeners, you can setup a rigid FBL mount support using the screws and bushings contained in bag 31-2



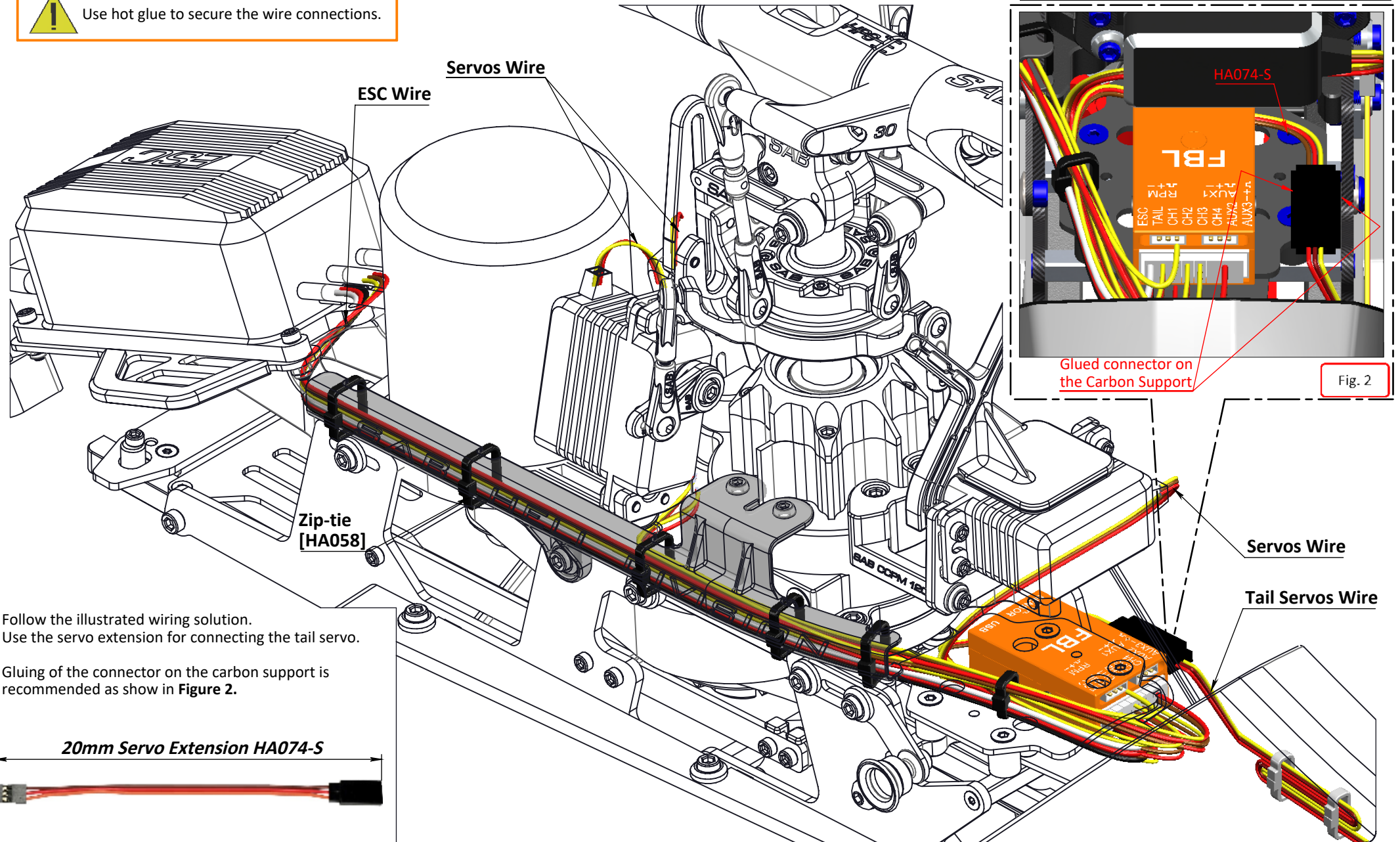
## BAGs 23, 28

In bag 28, you can find a "3D Printed" antenna support. Use it as desired with your RX system.





Use hot glue to secure the wire connections.



Follow the illustrated wiring solution.  
Use the servo extension for connecting the tail servo.

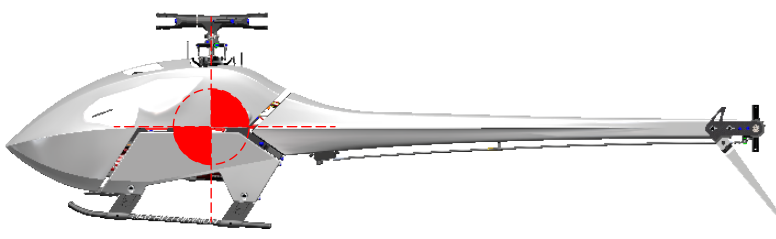
Gluing of the connector on the carbon support is recommended as show in **Figure 2**.

20mm Servo Extension HA074-S



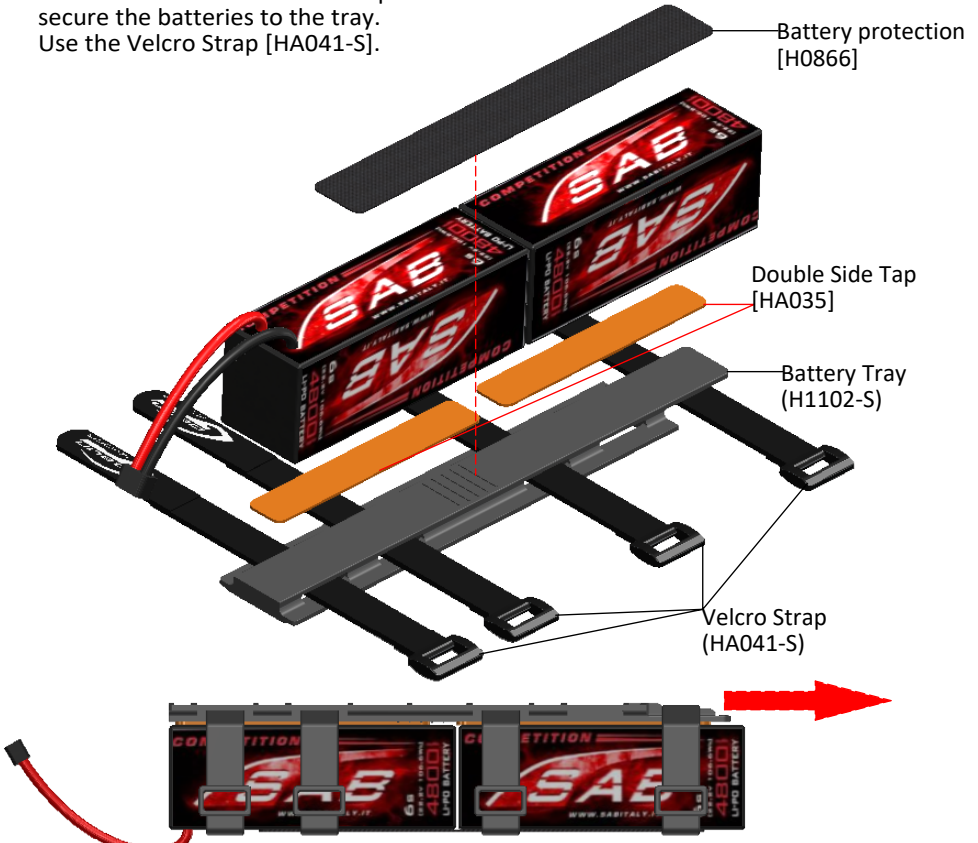
## BAG24

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



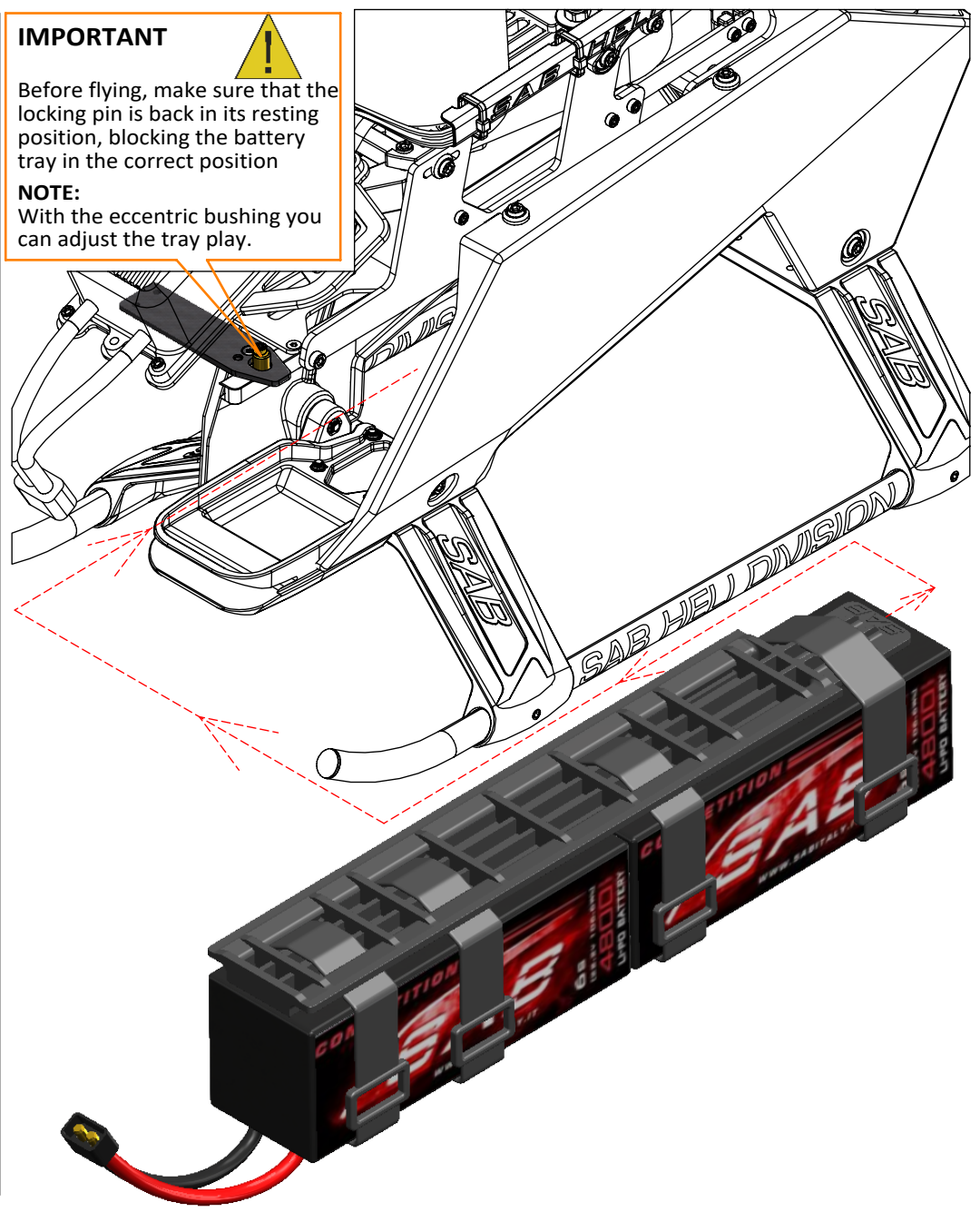
### BATTERIES

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



BATTERY 1400/1700 grams

**IMPORTANT** **!**  
Before flying, make sure that the locking pin is back in its resting position, blocking the battery tray in the correct position  
**NOTE:**  
With the eccentric bushing you can adjust the tray play.



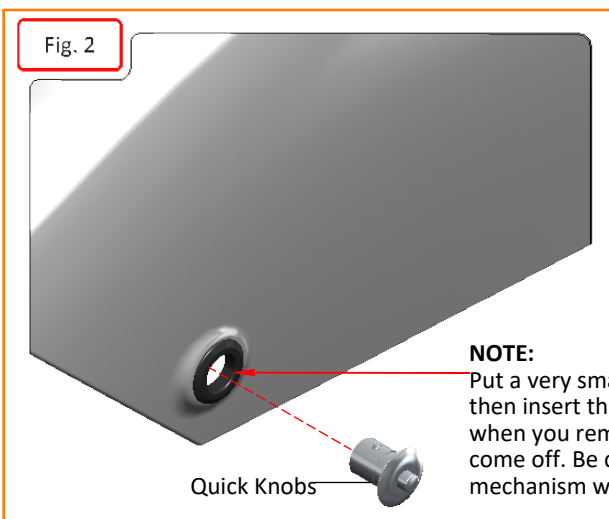
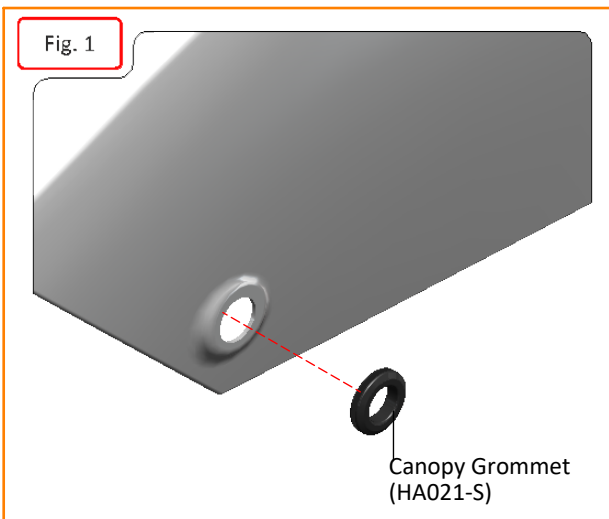
### CANOPY

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

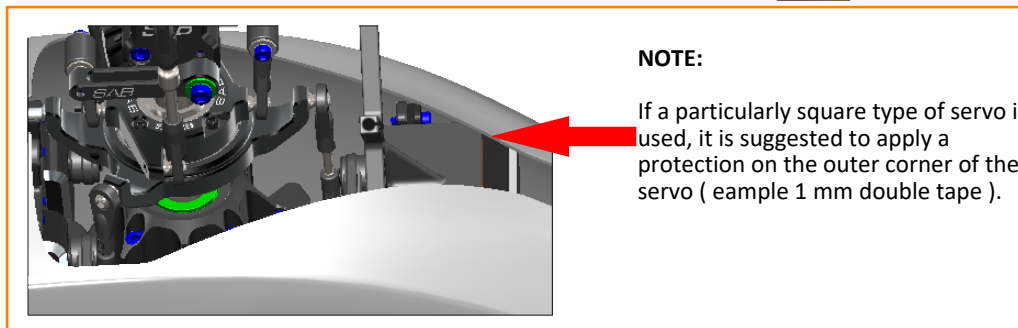
\*Fit the canopy in the red arrow zone, and insert the knobs.



\*Confirm the canopy is secure prior to each flight.




**NOTE:**  
Put a very small drop of CA glue on the grommet and then insert the quick release canopy mount. This way when you remove the canopy, the mounts can not come off. Be careful not to block the quick release mechanism with glue.



**NOTE:**  
If a particularly square type of servo is used, it is suggested to apply a protection on the outer corner of the servo ( example 1 mm double tape ).

## BAG 26

### 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 2200rpm.
- \*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, 1800 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. The dampers are composed of 3 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.

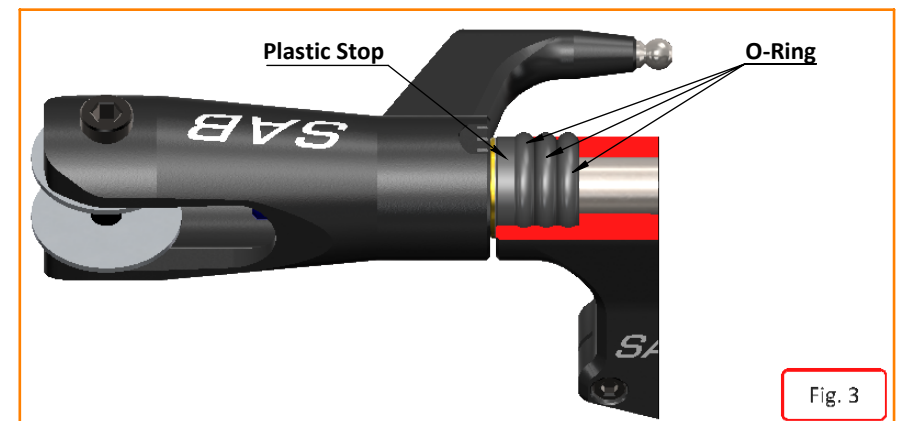
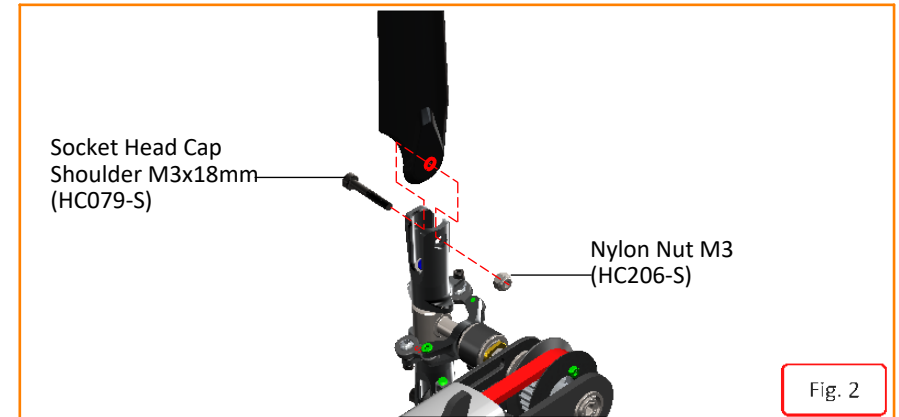
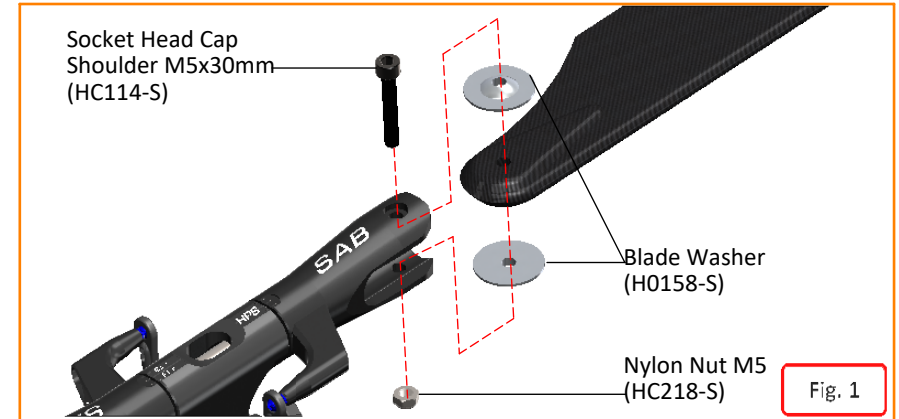
#### Oring

- 80 Shore: Soft for smooth response
- 90 Shore: Firm for direct and precise response
- A = Max movement of the spindle, feeling more elastic.
- B = Medium.
- C = Min movement of the spindle, feeling more direct.

In the kit, there is the damper H1046-B with 90 Shore O-ring [other Setting >>p/n H1135-S, HC530-S].

### ABOUT THE TAIL

The standard SETUP is optimized for 3d flight, headspeed 2200 rpm. If you prefer flying at low speed (< 2000 rpm), for best results we recommend changing the tail pulley 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 [H1098-26-S]  
If you want to fly under 1800 rpm, we suggest to use bigger 115 mm tail blades.



## 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.

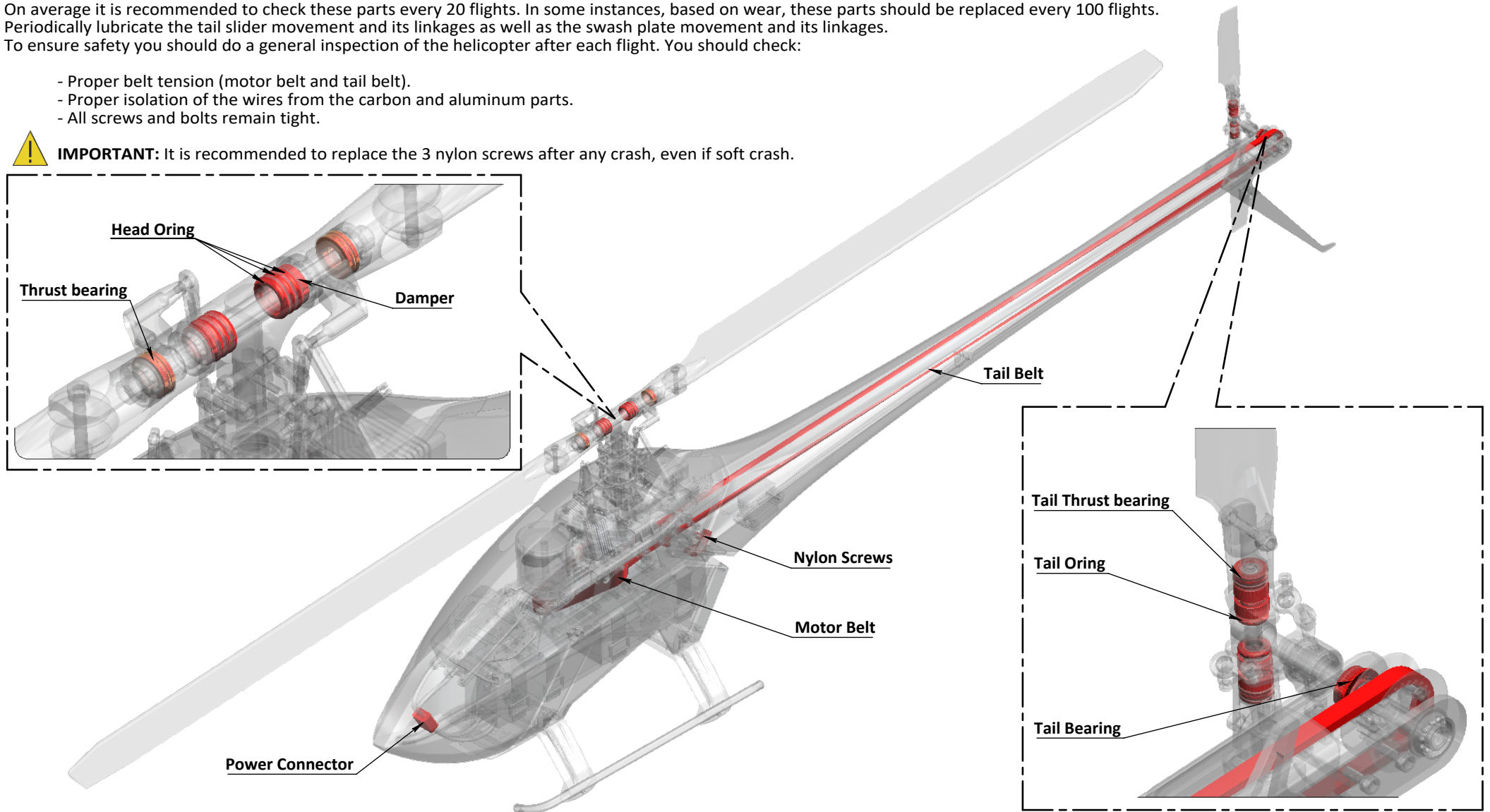
On average it is recommended to check these parts every 20 flights. In some instances, based on wear, these parts should be replaced every 100 flights.

Periodically lubricate the tail slider movement and its linkages as well as the swash plate movement and its linkages.

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

- Proper belt tension (motor belt and tail belt).
- Proper isolation of the wires from the carbon and aluminum parts.
- All screws and bolts remain tight.

 **IMPORTANT:** It is recommended to replace the 3 nylon screws after any crash, even if soft crash.



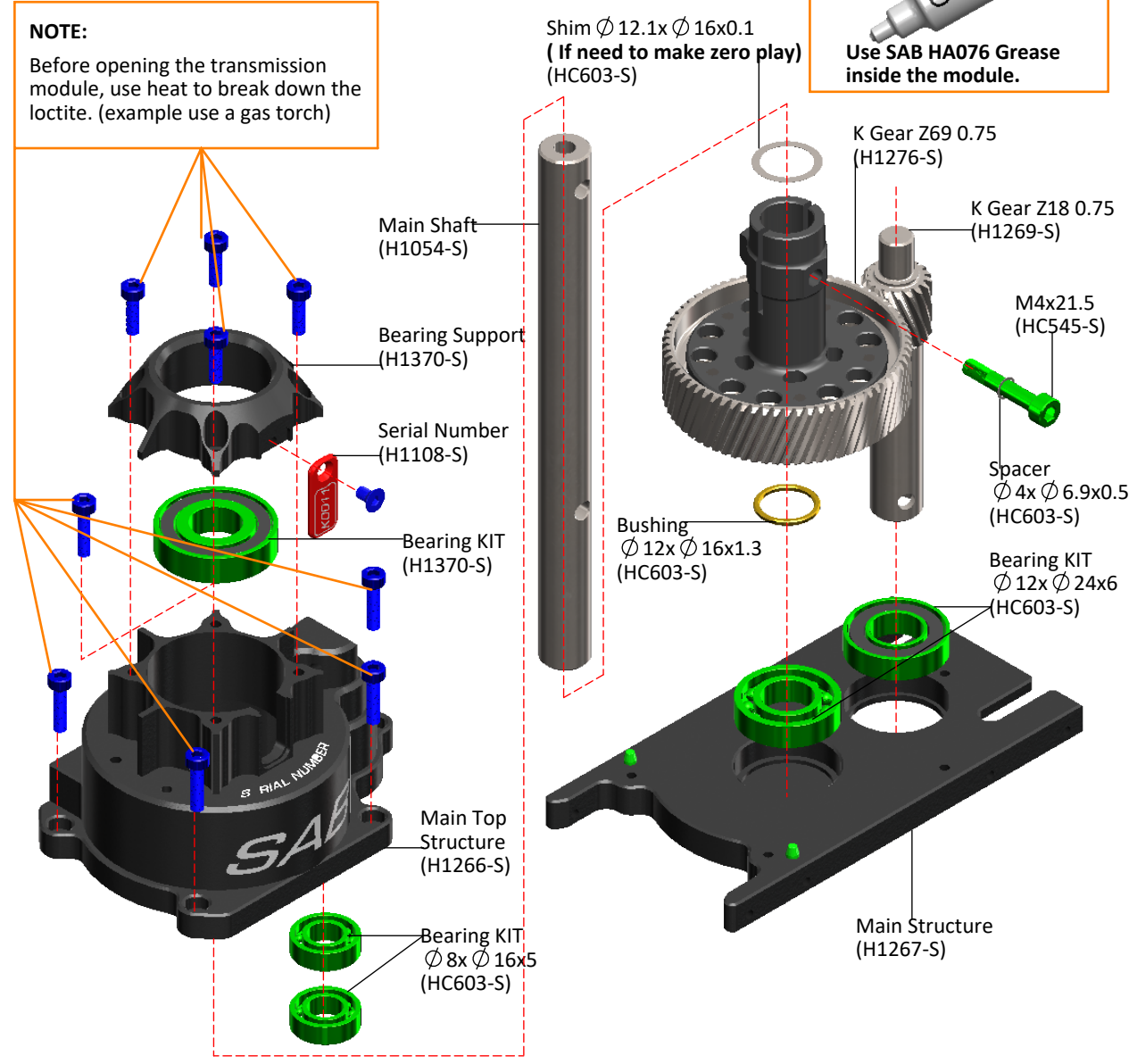
## TRANSMISSION MODULE

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

### Explode and Spare Parts

**NOTE:**

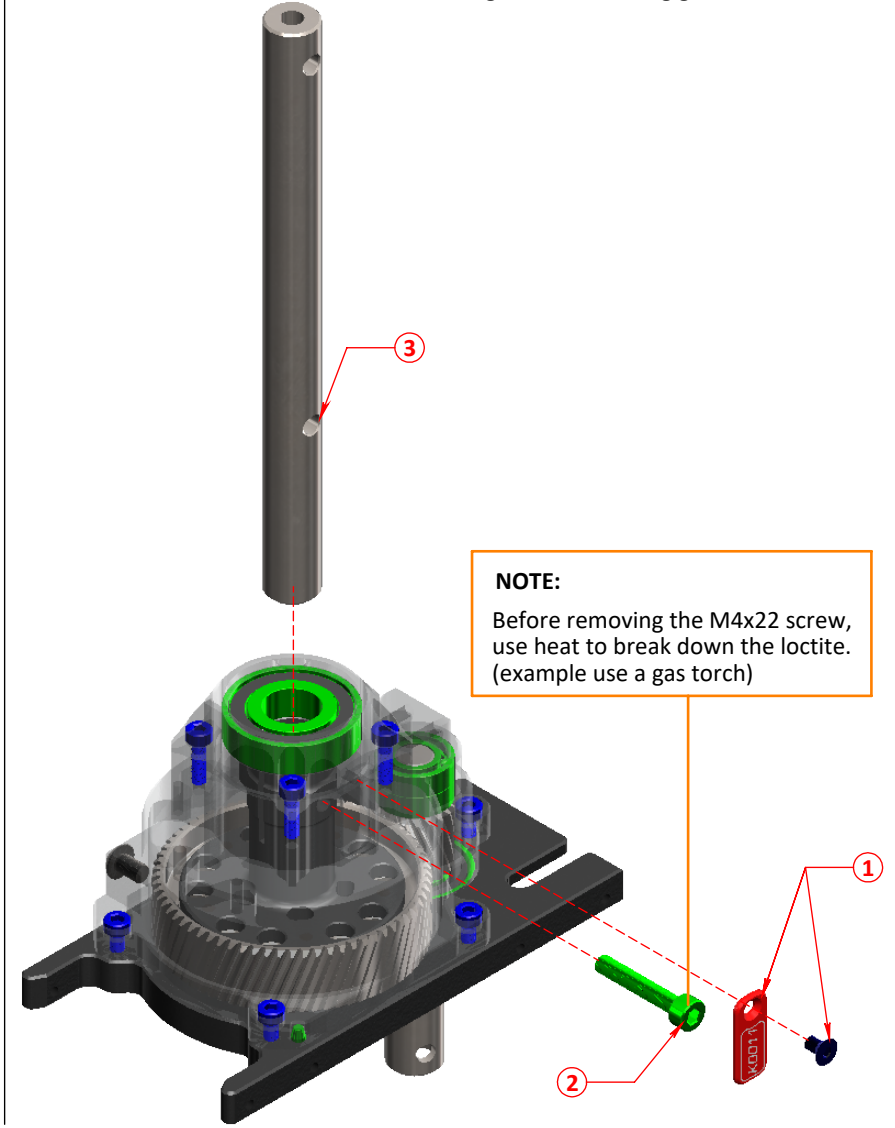
Before opening the transmission module, use heat to break down the loctite. (example use a gas torch)



## MAIN SHAFT REPLACEMENT

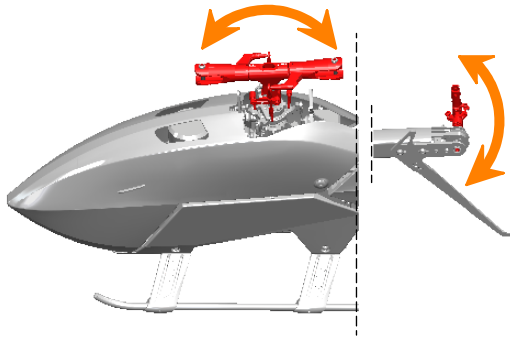
For replacing the main shaft:

- \*Remove the serial number plate.
- \*Remove the M4x21.5 screw.
- \*Remove and replace the main shaft.
- \*Screw in the M4x21.5 screw, with high force and using green loctite.

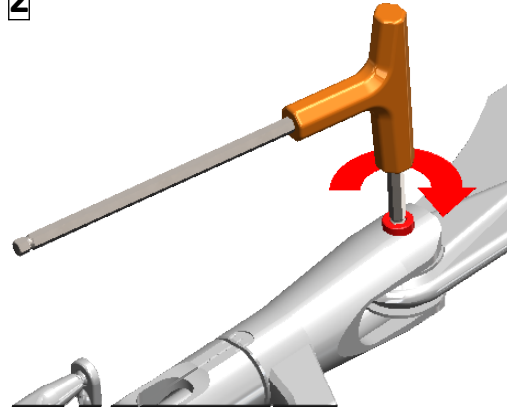




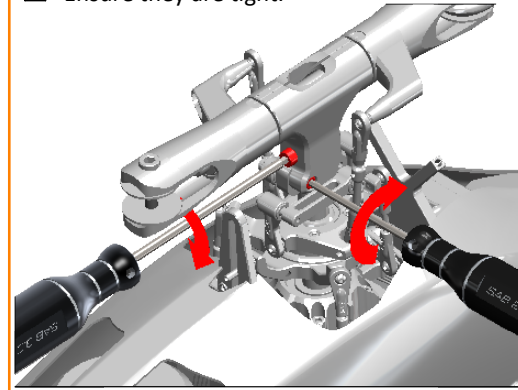
**1** Check the dampening on the main and tail rotor to be the same as always.



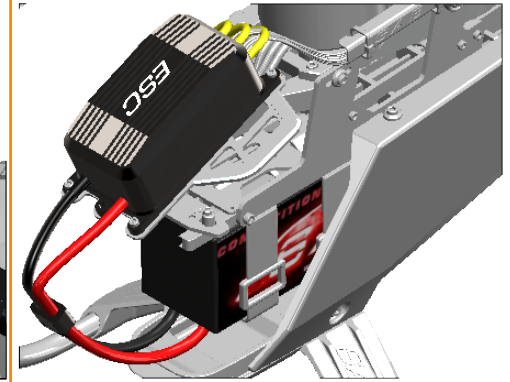
**2** Tighten the main blades before flight.



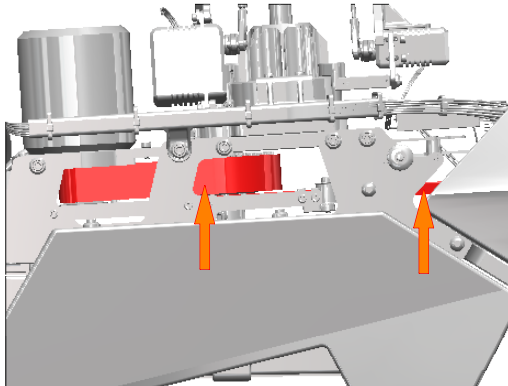
**3** Check main hub screws (M4x24 and 2 M3x12) Ensure they are tight.



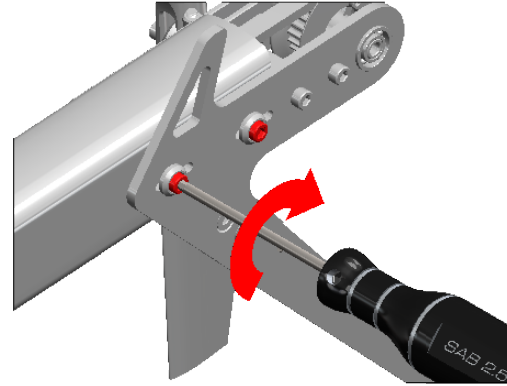
**4** Check all power connectors (Good mechanical connection).



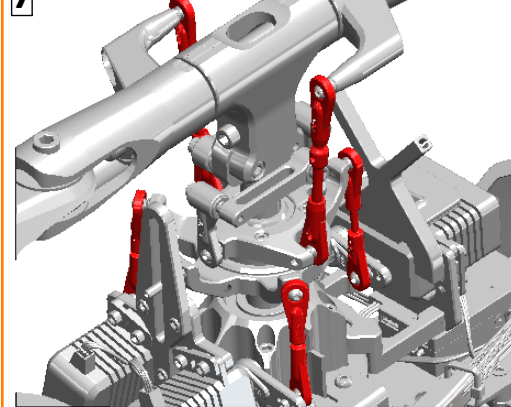
**5** Check Tail & Motor belt tension. The tension has to be tight.



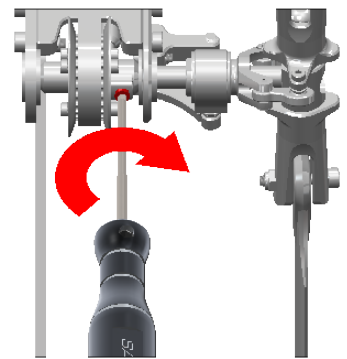
**6** Check the 4 M3x12 Tail group screws. Ensure they are tight.



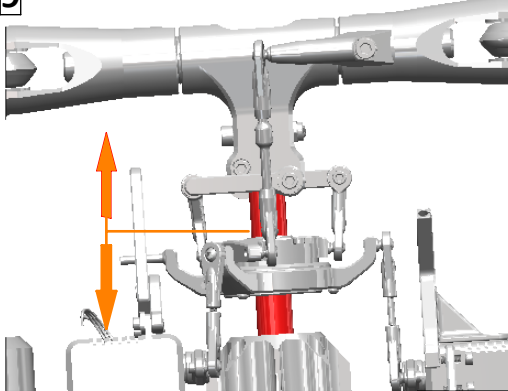
**7** Check the Main Linkages & Servo Linkages



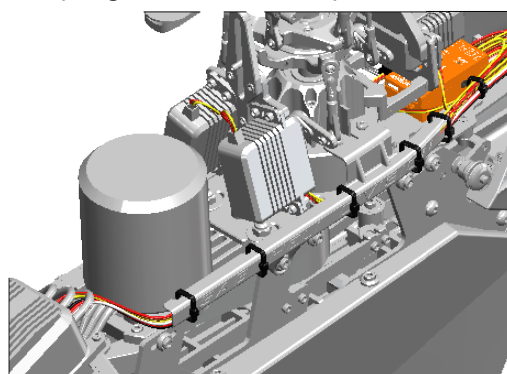
**8** Check tail pulley set screws: Ensure they are tight. (It is suggested use a bit of Green Loctite.)



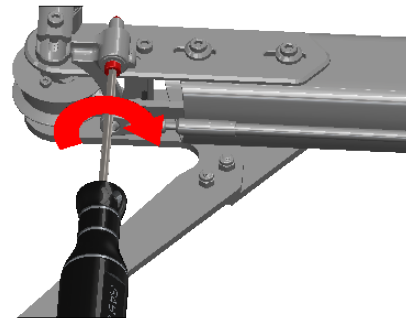
**9** Check for vertical play of the main shaft.



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



**11** Check the M3x22 bell crank: Belt crank movement must be smooth and the screw locked. (It is suggested use a bit of Green Loctite.)





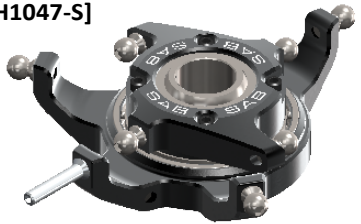

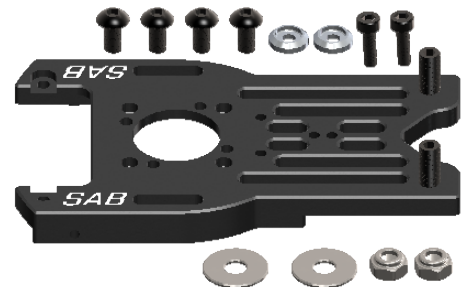
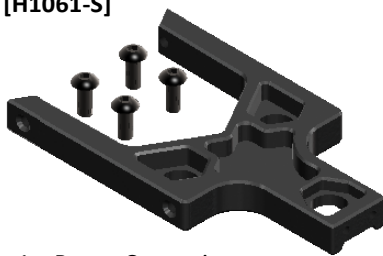
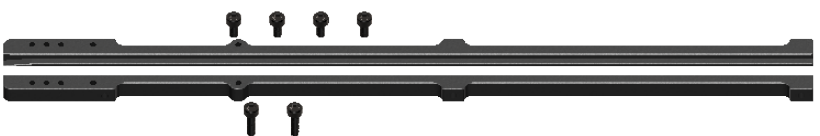
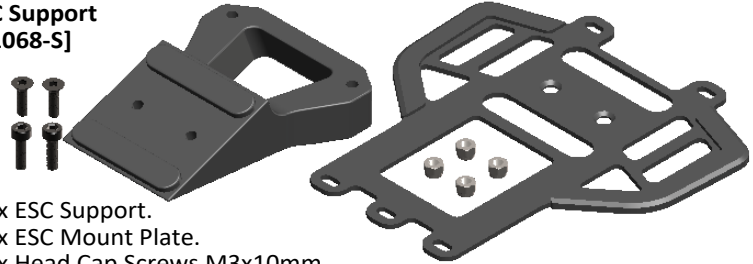
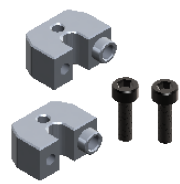
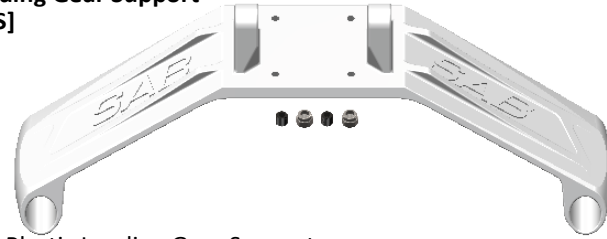

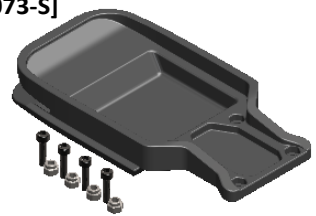



**12** Be sure the follow parts are properly lubricated

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

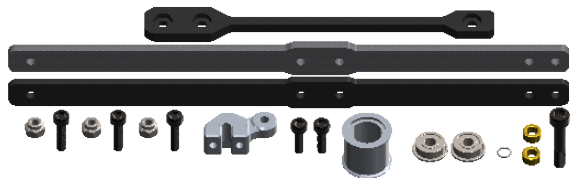


<p><b>Finishing Washer M3</b> [H0007-S]</p> <p>- 10 x Finishing Washers M3.</p>	<p><b>Tail Servo Lock</b> [H0040-S]</p> <p>- 2 x Tail Servo Locks. - 2 x Servo Spacers. - 4 x Head Cap Screws M2.5x12mm.</p>	<p><b>Locking Element Tail</b> [H0041-S]</p> <p>- 2 x Locking Element Tails. - 4 x Metric Hex Nylon Nuts M3. - 2 x Double Sided Tapes.</p>	<p><b>Linkage Tail Support</b> [H0045-S]</p> <p>- 1 x Linkage Tail Support. - 2 x Head Cap Screws M2.5x6mm.</p>	<p><b>Uniball M2 5H6</b> [H0064-S]</p> <p>- 5 x Uniballs M2 5H6. - 5 x Uniball Spacers. - 5 x Head Cap Screws M2x8mm. - 5 x Head Cap Screws M2x6mm.</p>
<p><b>Uniball M3x4 5H3</b> [H0065-S]</p> <p>- 5 x Uniballs M3x4 5H3.5.</p>	<p><b>Plastic Ball Link</b> [H0066-S]</p> <p>- 10 x Plastic Ball Link.</p>	<p><b>Servo Spacer</b> [H0075-S]</p> <p>- 10 x Servo Spacers.</p>	<p><b>Spindle</b> [H0079-S]</p> <p>- 1 x Spindle Shaft. - 2 x Button Cap Screw M6x10mm. - 2 x Washer <math>\varnothing 6x\varnothing 14x1.5</math>mm</p>	<p><b>Bearing Support</b> [H0143-S]</p> <p>- 1 x Bearing Support. - 1 x Flanged Bearing <math>\varnothing 6x\varnothing 13x5</math>mm. - 2 x Head Cap Screws M3x8mm.</p>
<p><b>Radius Arm</b> [H0132BM-S]</p> <p>- 2 x Radius Arms. - 2 x Spacer Arm <math>\varnothing 3x\varnothing 5x2.7</math>mm. - 2 x Spacer Arm <math>\varnothing 2.5x\varnothing 4x6.3</math>mm. - 2 x Uniball Radius Arms. - 2 x Head Cap Screws M3x16mm. - 2 x Head Cap Screws M2.5x18mm. - 2 x Washers 3x 4x0.5mm. - 2 x Flanged Bearings <math>\varnothing 2.5x\varnothing 6x2.5</math>mm. - 2 x Flanged Bearings <math>\varnothing 3x\varnothing 7x3</math>mm.</p>		<p><b>Aluminum Blade Spacer</b> [H0158-S]</p> <p>- 4 x Aluminum Blade Spacer.</p>	<p><b>Motor Pulley</b> [H0175-18 to 25-S]</p> <p>- 1 x Motor Pulley 18 to 25T. - 1 x Set Screws M4x4mm. - 1 x Set Screws M4x6mm. - 1 x Bushing.</p>	<p><b>Uniball Radius Arm</b> [H0205-S]</p> <p>- 2 x Uniball Radius Arm.</p>
<p><b>Plastic Tail Linkage</b> [H0261-S]</p> <p>- 2 x Plastic Tail Linkage. - 2 x Grip Link Bushing. - 2 x Head Cap Screws M2x6mm.</p>	<p><b>Tail Spindle</b> [H0329-S]</p> <p>- 1 x Tail Spindle. - 2 x Button Cap Screws M4x6mm.</p>	<p><b>Tail Spacer</b> [H0330-S]</p> <p>- 2 x Tail Oring Damper. - 2 x Washer <math>\varnothing 5x\varnothing 8.9x0,75</math>mm. - 2 x Washer <math>\varnothing 7.5x\varnothing 10x0,5</math>mm.</p>	<p><b>Plastic Ball Link</b> [H0402-S]</p> <p>- 5 x Plastic Ball Link.</p>	<p><b>Main Linkage</b> [H0417-S]</p> <p>- 2 x Main Linkage. - 4 x Plastic Ball Link.</p>

<p><b>Tail Blade Grips [H1033-S]</b></p>  <ul style="list-style-type: none"> <li>- 2 x Aluminum Tail Blade Grip.</li> <li>- 4 x Bearing <math>\phi 5 \times \phi 10 \times 4 \text{mm}</math>.</li> <li>- 2 x Thrust bearing <math>\phi 5 \times \phi 10 \times 4 \text{mm}</math>.</li> <li>- 2 x Button Head Cap M4x8mm.</li> <li>- 2 x Socket Head Cap M2x6mm.</li> <li>- 2 x Washer <math>\phi 5 \times \phi 8.9 \times 0.75 \text{mm}</math>.</li> <li>- 2 x Washer <math>\phi 7.5 \times \phi 10 \times 0.5 \text{mm}</math>.</li> </ul>	<p><b>Center Hub [H1043-S]</b></p>  <ul style="list-style-type: none"> <li>- 1 x Center Hub.</li> <li>- 2 x Socket Head Cap M4x24mm.</li> <li>- 2 x Socket Head Cap M3x12mm.</li> <li>- 1 x Nylon Nut M4.</li> </ul>	<p><b>Main Blade Grips [H1044-S]</b></p>  <ul style="list-style-type: none"> <li>- 1 x Blade Grip.</li> <li>- 1 x Thrust Bearing <math>\phi 10 \times \phi 18 \times 5.5</math>.</li> <li>- 2 x Bearing <math>\phi 10 \times \phi 19 \times 5 \text{mm}</math>.</li> <li>- 1 x Washer <math>\phi 10 \times \phi 16 \times 1 \text{mm}</math>.</li> <li>- 1 x Socket Head Cap Screw M4x10.</li> </ul>	<p><b>Blade Grip Arm 30 [H1045-S]</b></p>  <ul style="list-style-type: none"> <li>- 2 x Blade Grip Arm.</li> <li>- 2 x Head Cap Screw M4x10mm.</li> <li>- 2 x Uniball M3x4 <math>\phi 5 \text{H3.5}</math>.</li> </ul>	<p><b>Damper [H1046-S]</b></p>  <ul style="list-style-type: none"> <li>- 2 x Damper B.</li> <li>- 6 x Oring 90 Shore.</li> </ul>
<p><b>Swashplate [H1047-S]</b></p>  <ul style="list-style-type: none"> <li>- 1 x Swashplate Assembly.</li> <li>- 7 x Uniball M3.</li> <li>- 1 x Reference Pin.</li> </ul>	<p><b>Reference Pin [H1048-S]</b></p>  <ul style="list-style-type: none"> <li>- 1 x Reference Pin.</li> </ul>	<p><b>Motor Mount [H1058-S]</b></p>  <ul style="list-style-type: none"> <li>- 1 x Motor Mount.</li> <li>- 2 x Set Screws M5x15mm.</li> <li>- 2 x Washers <math>\phi 5.3 \times \phi 15 \times 1 \text{mm}</math>.</li> <li>- 2 x Nylon Nuts M5H4.8.</li> <li>- 2 x Finishing Washers M3.</li> <li>- 2 x Head Cap Screws M3x10mm.</li> </ul>	<p><b>Boom Connexion [H1061-S]</b></p>  <ul style="list-style-type: none"> <li>- 1 x Boom Connexion.</li> <li>- 4 x Button Cap Screws M4x10mm.</li> </ul>	
<p><b>Battery Tray Guide [H1067-S]</b></p>  <ul style="list-style-type: none"> <li>- 2 x Battery Tray Guide.</li> <li>- 4 x Head Cap Screws M3x6mm.</li> <li>- 2 x Head Cap Screws M3x10mm.</li> </ul>	<p><b>ESC Support [H1068-S]</b></p>  <ul style="list-style-type: none"> <li>- 1 x ESC Support.</li> <li>- 1 x ESC Mount Plate.</li> <li>- 2 x Head Cap Screws M3x10mm.</li> <li>- 2 x Flat Cap Screws M3x10mm.</li> <li>- 4 x Nylon Nut M3.</li> </ul>	<p><b>Low Side Frame Mount [H1069-S]</b></p>  <ul style="list-style-type: none"> <li>- 2 x Low Side Frame Mount.</li> <li>- 2 x Head Cap Screws M3x10mm.</li> </ul>		
<p><b>Plastic Landing Gear Support [H1070W-S]</b></p>  <ul style="list-style-type: none"> <li>- 1 x White Plastic Landing Gear Support.</li> <li>- 2 x Set Screws M4x4mm.</li> <li>- 2 x Nylon Nut M3.</li> </ul>	<p><b>Landing Gear Rod [H1071-S]</b></p>  <ul style="list-style-type: none"> <li>- 2 x Landing Gear Rod.</li> <li>- 4 x Plug.</li> </ul>	<p><b>Canopy Front Block [H1073-S]</b></p>  <ul style="list-style-type: none"> <li>- 1 x Canopy Front Block.</li> <li>- 4 x Nylon Nut M2.5.</li> <li>- 4 x Head Cap Screws M2.5x10mm.</li> </ul>	<p><b>Frame Spacer [H1076-S]</b></p>  <ul style="list-style-type: none"> <li>- 1 x Frame Spacer.</li> <li>- 2 x Head Cap Screws M3x10mm.</li> </ul>	

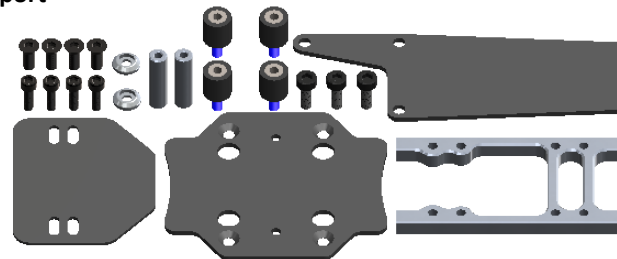
<p><b>Battery Carbon SET</b> [H1085-S]</p>  <p>- 1 x Battery Carbon SET.</p>	<p><b>Tail Shaft</b> [H1089-S]</p>  <p>- 1 x Tail Shaft. - 1 x Tail Hub. - 2 x Tail Oring.</p>	<p><b>Tail Bell Crank Lever</b> [H1090-S]</p>  <p>- 1 x Bell Crank Lever Assembled. - 1 x Head Cap Screws M3x22mm. - 1 x Head Cap Screws M2x6mm. - 2 x Washer <math>\varnothing 3.2 \times \varnothing 6 \times 0.1 \text{mm}</math>.</p>	<p><b>Tail Case Spacer</b> [H1093-S]</p>  <p>- 1 x Tail Case Spacer. - 4 x Head Cap Screws M3x8mm.</p>	<p><b>Bell Crank Base</b> [H1095-S]</p>  <p>- 1 x Bell Crank Base. - 2 x Head Cap Screws M2.5x8mm.</p>
<p><b>Carbon Fiber Side Plate</b> [H1096-01-S]</p>  <p>- 1 x CF Side Plate. - 1 x Flanged Bearing <math>\varnothing 6 \times \varnothing 13 \times 5 \text{mm}</math>.</p>	<p><b>Tail Fin</b> [H1096-02-S]</p>  <p>- 1 x Tail Fin. - 2 x Flat Head Cap M3x10mm. - 2 x Metrix Hex Nylon Nut M3.</p> <p>- 1 x Orange Stickers. - 1 x Yellow Stickers. - 1 x White Stickers.</p>	<p><b>Tail Side Plate</b> [H1097-S]</p>  <p>- 1 x Tail Side Plate. - 1 x Flanged Bearing <math>\varnothing 6 \times \varnothing 13 \times 5 \text{mm}</math>.</p>	<p><b>Tail Pulley 27T</b> [H1098-S]</p>  <p>- 1 x Tail Pulley 27T. - 1 x Set Screws M4x6mm.</p>	
<p><b>Low Side Frame Connection</b> [H1099-S]</p>  <p>- 1 x Low Side Frame Connection.</p>	<p><b>Quick Release Canopy</b> [H1101-S]</p>  <p>- 2 x Quick Release Canopy. - 2 x Head Cap Screw M3x6mm.</p>	<p><b>Battery Tray</b> [H1102-S]</p>  <p>- 4 x Veiclo Strap. - 1 x Plastic Battery Tray. - 2 x Double side Tape. - 1 x Battery Protection.</p>	<p><b>Wire Cover</b> [H1107-S]</p>  <p>- 1 x Wire Cover. - 1 x Finishing Washer M3. - 1 x Head Cap Screws M3x8mm. - 2 x Button Cap Screws M2.5x6mm.</p>	
<p><b>Kraken Serial Number Plate</b> [H1108-S]</p>  <p>- 1 x Kraken Serial Number Plate. - 1 x Flat Cap Screw M2.5x5mm.</p>	<p><b>Tail Pitch Slider</b> [H1112-S]</p>  <p>- 1 x Tail Pitch Slider Assembled. - 2 x Slider Linkage. - 2 x Head Cap Screws M2x6mm. - 2 x Spacer.</p>	<p><b>Tail Slider Bush</b> [H1115-S]</p>  <p>- 2 x Tail Slider Bush.</p>	<p><b>Antena Support</b> [H1134-S]</p>  <p>- 1 x Antena Support. - 1 x Double Side Tape.</p>	<p><b>Rear Servo Mount</b> [H1207-S]</p>  <p>- 1 x Rear Servo Mount. - 2 x Socket Head Cap M2.5x8mm.</p>

**Tail Belt Tensioner**  
[H1234-S]



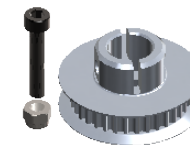
- 1 x Tail Belt Tensioner.

**FBL/RX Support**  
[H1268-S]



- 1 x FBL/RX support SET.

**Front Tail Pulley 34T**  
[H1271-S]



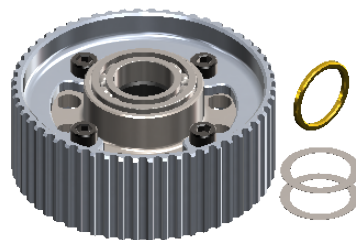
- 1 x Front Tail Pulley 34T.  
- 1 x Head Shoulder M4x22mm.  
- 1 x Nylon Nut M4.

**Swashplate Reference**  
[H1273-S]



- 1 x Swashplate reference.  
- 2 x Head Cap Screws M3x8mm.

**Main Pulley**  
[H1291-S]



- 1 x Main Pulley SET.  
- 1 x Bushing.  
- 2 x Shim  $\varnothing 12x \varnothing 16x0.1mm$ .

**Bearing Support**  
[H1370-S]



- 1 x Bearing Support.  
- 1 x Bearing  $\varnothing 12x \varnothing 28x7mm$ .  
- 4 x Socket Head Cap Screw M3x10.  
- 2 x Shim  $\varnothing 12x \varnothing 16x0.1mm$ .

**Anti Rotation Delrin**  
[H1378-S]



- 1 x Anti Rotation Delrin.  
- 3 x Socket Head Cap Screw M2.5x6.

**Main Frame**  
[H1403-S]



- 1 x Main Frame.  
- 2 x Bushing.

**Canopy Base Support**  
[H1404-S]



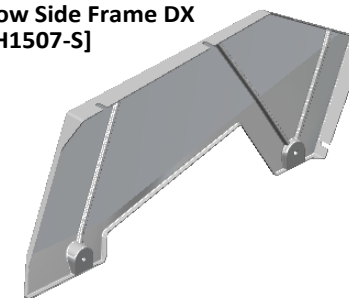
- 2 x Canopy Base Support.

**Rear Servo Support CK**  
[H1405-S]



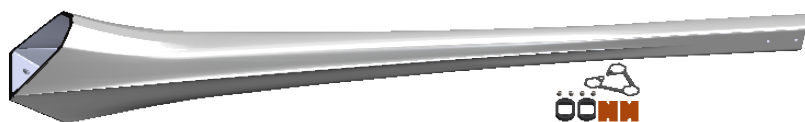
- 2 x Rear Servo Support CK.  
- 2 x Head Cap Screw M3x8mm.

**Low Side Frame DX**  
[H1507-S]



- 1 x Low Side Frame DX.

**Boom Kraken RAW**  
[H1505-S]



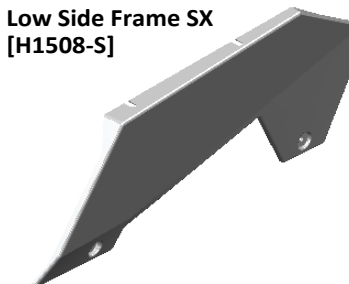
- 1 x Boom Kraken RAW.  
- 2 x Locking Element Tail.  
- 4 x Metric Hex Nylon Nuts M3.  
- 2 x Double Sided Tapes.  
- 1 x Nut Block.

**Canopy Kraken RAW**  
[H1506-S]

























- 1 x Canopy Kraken RAW.  
- 2 x Canopy Grommet.

**Low Side Frame SX**  
[H1508-S]



- 1 x Low Side Frame SX.

<p>[HC004-S]</p>  <p>- 8 x Socket Screw M2x6mm.</p>	<p>[HC018-S]</p>  <p>- 8 x Socket Screw M2.5x6mm.</p>	<p>[HC019-S]</p>  <p>- 8 x Button Screw M2.5x6mm.</p>	<p>[HC020-S]</p>  <p>- 8 x Socket Screw M2.5x8mm.</p>	<p>[HC022-S]</p>  <p>- 8 x Socket Screw M2.5x10mm.</p>	<p>[HC026-S]</p>  <p>- 8 x Socket Screw M2.5x12mm.</p>
<p>[HC032-S]</p>  <p>- 8 x Socket Screw M2.5x18mm.</p>	<p>[HC044-S]</p>  <p>- 8 x Socket Screw M3x6mm.</p>	<p>[HC050-S]</p>  <p>- 8 x Socket Screw M3x8mm.</p>	<p>[HC056-S]</p>  <p>- 8 x Socket Screw M3x10mm.</p>	<p>[HC062-S]</p>  <p>- 8 x Socket Screw M3x12mm.</p>	<p>[HC064-S]</p>  <p>- 8 x Socket Screw M3x14mm.</p>
<p>[HC068-S]</p>  <p>- 8 x Socket Screw M3x16mm.</p>	<p>[HC074-S]</p>  <p>- 2 x Shoulder Screw M3x16mm. - 2 x Nylon Nut M3.</p>	<p>[HC079-S]</p>  <p>- 2 x Shoulder Screw M3x18mm.</p>	<p>[HC086-S]</p>  <p>- 2 x Socket Screw M3x22mm.</p>	<p>[HC096-S]</p>  <p>- 8 x Button Screw M4x6mm.</p>	<p>[HC098-S]</p>  <p>- 8 x Button Screw M4x8mm.</p>
<p>[HC100-S]</p>  <p>- 8 x Button Screw M4x10mm.</p>	<p>[HC102-S]</p>  <p>- 8 x Socket Screw M4x10mm.</p>	<p>[HC104-S]</p>  <p>- 8 x Socket Screw M4x22mm.</p>	<p>[HC111-S]</p>  <p>- 8 x Shoulder Screw M4x24mm.</p>	<p>[HC114-S]</p>  <p>- 2 x Shoulder Screw M5x30mm. - 2 x Nylon Nut M5.</p>	<p>[HC124-S]</p>  <p>- 8 x Socket Screw M6x10mm.</p>
<p>[HC125-S]</p>  <p>- 8 x Flat Screw M2.5x8mm.</p>	<p>[HC128-S]</p>  <p>- 8 x Flat Screw M2.5x5mm.</p>	<p>[HC132-S]</p>  <p>- 8 x Flat Screw M3x5mm.</p>	<p>[HC134-S]</p>  <p>- 8 x Flat Screw M3x8mm.</p>	<p>[HC135-S]</p>  <p>- 8 x Flat Screw M3x10mm.</p>	<p>[HC136-S]</p>  <p>- 8 x Self Screw M3x10mm.</p>

<p>[HC140-S]</p>  <p>- 8 x Set Screw M2.5x18mm.</p>	<p>[HC152-S]</p>  <p>- 8 x Set Screw M4x4mm.</p>	<p>[HC153-S]</p>  <p>- 8 x Set Screw M4x5mm.</p>	<p>[HC180-S]</p>  <p>- 10 x Steel Washer  <math>\varnothing 3,3 \times \varnothing 6 \times 0,5 \text{mm}</math>.</p>	<p>[HC188-S]</p>  <p>- 10 x Steel Washer  <math>\varnothing 5,3 \times \varnothing 15 \times 1 \text{mm}</math>.</p>	<p>[HC194-S]</p>  <p>- 5 x Steel Washer  <math>\varnothing 6 \times \varnothing 14 \times 1,8 \text{mm}</math>.</p>	<p>[HC200-S]</p>  <p>- 10 x Nylon Nut M2.5.</p>
<p>[HC206-S]</p>  <p>- 10 x Nylon Nut M3.</p>	<p>[HC212-S]</p>  <p>- 10 x Nylon Nut M4.</p>	<p>[HC218-S]</p>  <p>- 10 x Nylon Nut M5.</p>	<p>[HC230-S]</p>  <p>- 5 x Steel Washer  <math>\varnothing 10 \times \varnothing 16 \times 1 \text{mm}</math>.</p>	<p>[HC232-S]</p>  <p>- 5 x Steel Washer  <math>\varnothing 10 \times \varnothing 16 \times 0,2 \text{mm}</math>.</p>	<p>[HC242-S]</p>  <p>- 3 x Thread Rod M2.5x40.</p>	<p>[HC304-S]</p>  <p>- 1 x Belt HTD 3M - 2061.</p>
<p>[HC335-S]</p>  <p>- 4 x Oring 70 Shore.</p>	<p>[HC400-S]</p>  <p>- 4 x Flanged Bearing  <math>\varnothing 2,5 \times \varnothing 6 \times 2,6 \text{mm}</math>.</p>	<p>[HC402-S]</p>  <p>- 4 x Flanged Bearing  <math>\varnothing 3 \times \varnothing 7 \times 3 \text{mm}</math>.</p>	<p>[HC422-S]</p>  <p>- 4 x Ball Bearing  <math>\varnothing 10 \times \varnothing 19 \times 5 \text{mm}</math>.</p>	<p>[HC435-S]</p>  <p>- 2 x Thrust Bearing  <math>\varnothing 5 \times \varnothing 10 \times 4 \text{mm}</math>.</p>	<p>[HC438-S]</p>  <p>- 2 x Thrust Bearing  <math>\varnothing 10 \times \varnothing 18 \times 5,5 \text{mm}</math>.</p>	<p>[HC529-S]</p>  <p>- 6 x O-ring 90 shore.</p>
<p>[HC537-S]</p>  <p>- 1 x CF Rod <math>\varnothing 3 \times \varnothing 4 \times 710</math>.          - 2 x Plastic Ball Linkage</p>	<p>[HC545-S]</p>  <p>- 8 x Head Cap Screw          Shoulder M4x21.5mm.</p>	<p>[HC546-S]</p>  <p>- 3 x Bolt M10x20mm.          - 3 x Nut M10x5mm.          - 1 x Nut Block.          - 1 x Special Tool.          - 2 x Washer.</p>	<p>[HC549-S]</p>  <p>- 8 x Self Screws M3x12mm.</p>	<p>[HC573-S]</p>  <p>- 4 x Rubber 65 Shore.</p>	<p>[HC601-S]</p>  <p>- 1 x Motor Belt          GT3-276-19 mm.</p>	
<p>[HC603-S]</p> <p>- 1 x Bearing <math>\varnothing 12 \times \varnothing 24 \times 6</math>.          - 1 x Bearing <math>\varnothing 12 \times \varnothing 24 \times 6</math>.          - 1 x Bearing <math>\varnothing 8 \times \varnothing 16 \times 5</math>.          - 2 x Shims <math>\varnothing 12 \times \varnothing 16 \times 0,1</math>.          - 1 x Shim <math>\varnothing 12 \times \varnothing 16 \times 1,3</math>.          - 1 x Shim <math>\varnothing 4 \times \varnothing 7 \times 0,2</math>.          - 1 x M4x21.5 Screw.          - 2 x Pin 3x6.</p>	<p>[HC618-S]</p>  <p>- 3 x Set Screws M2.5x28.</p>	<p>[HA021-S]</p>  <p>- 2 x Canopy Grommet.</p>	<p>[HA041-S]</p>  <p>- 2 x Strap 20x250mm.</p>	<p>[HA072-S]</p>  <p>- 1 x Blade Holder.</p>	<p>[S700]</p>  <p>- 2 x Main Blades 700mm.</p>	<p>[S105]</p>  <p>- 2 x Tail Blades 105mm.</p>



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.

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**KRAKEN CARBON**  
**KRAKEN LIMITED EDITION**  
Release 1.0 - November 2021

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