

MANUAL

IL GOBLIN
59

IL GOBLIN

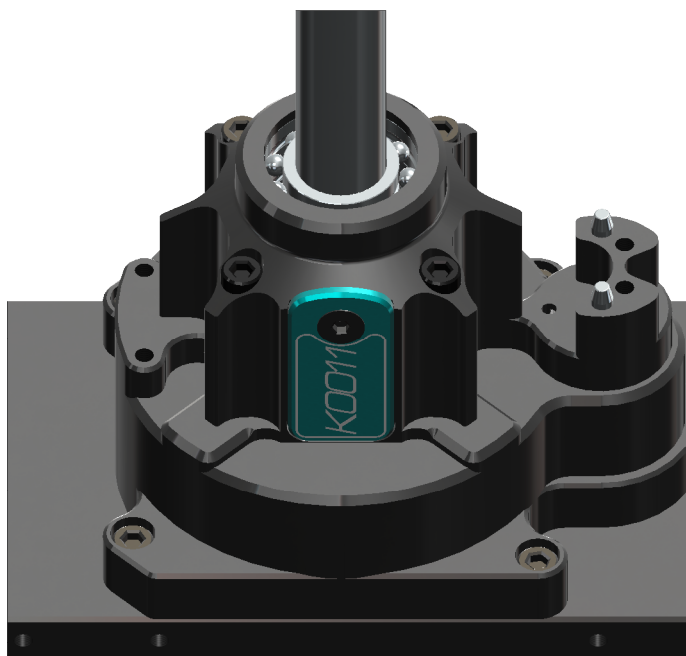
COMPETIZIONE

THE ITALIAN HELI

EAB HELI DIVISION



Please read this user manual carefully, it contains instructions for the correct assembly of the model.
Please refer to the website www.goblin-helicopter.com for updates and other important information.



VERY IMPORTANT

You will find your serial number on the BLUE 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 website 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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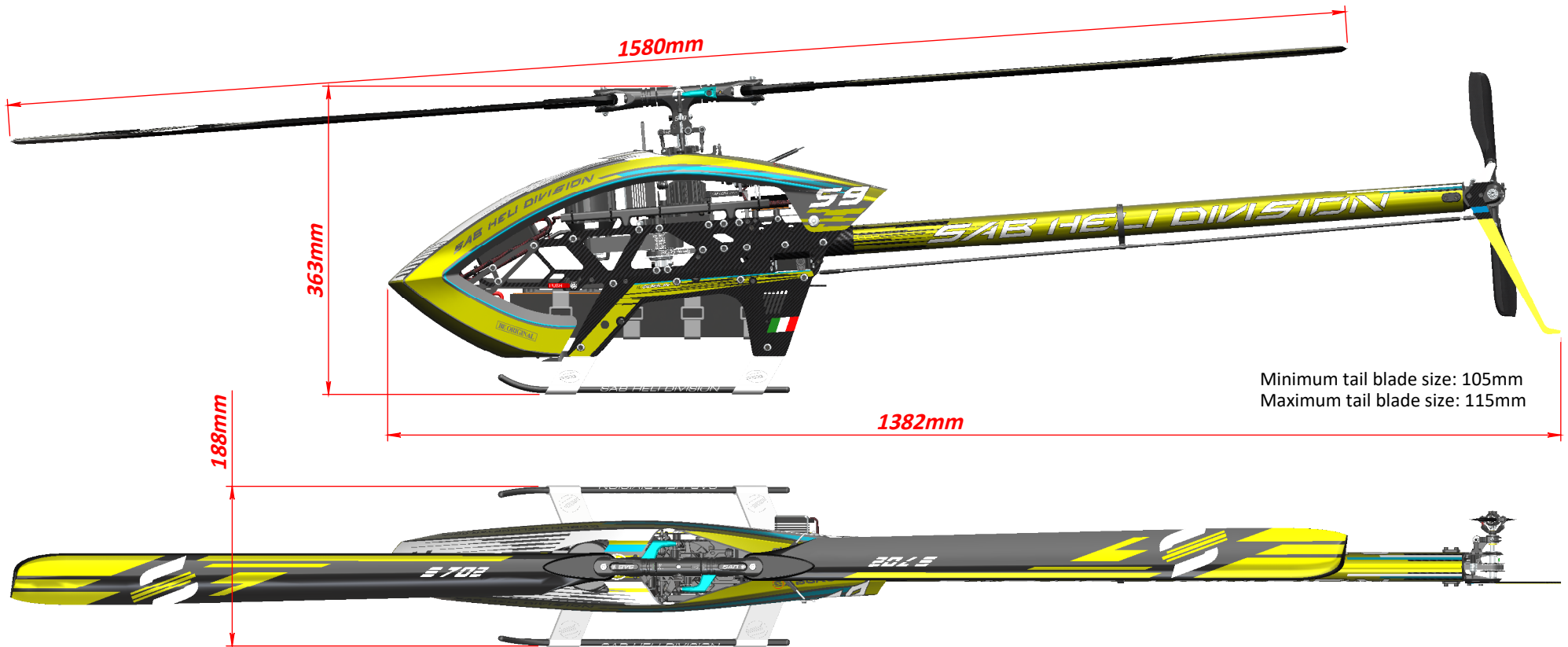
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ILGOBLIN PIUMA COMPETIZIONE [SG779] TECHNICAL SPECIFICATIONS



Minimum tail blade size: 105mm
Maximum tail blade size: 115mm

- **AIRFRAME weight:** 1995 gr (no blades, no battery, no Electronics).
- **Main rotor diameter:** 1580 mm (with 702 mm blade).
- **Main blade length:** 650 to 730mm.
- **Tail rotor diameter:** 292 mm (with 110 mm tail blade).
- **Tail blade length:** 105 to 115 mm.
- **Main shaft:** 12 mm, Tail shaft: 6 mm.
- **Round carbon tail boom .**

- **Cyclic Servos:** Standard size 40mm.
- **Tail Servo:** Standard size 40mm.
- **Main Rotor Ratio:** 11.8 to 8.4 (22T included: 9.6:1).
- **Tail Rotor Ratio:** 5.1-4.9:1 (26T included: 4.9:1).
- **Motor:** 12S, 480/560 KV.
- **Battery Space:** 50x60x300 mm.

KIT Includes:

- 22T motor pulley (other pulley sizes available).
- 1 Battery Tray with integrated connectors.

- S702 (702 mm main blade).
- S110 (110 mm tail blade).

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.
- *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 designated for 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.

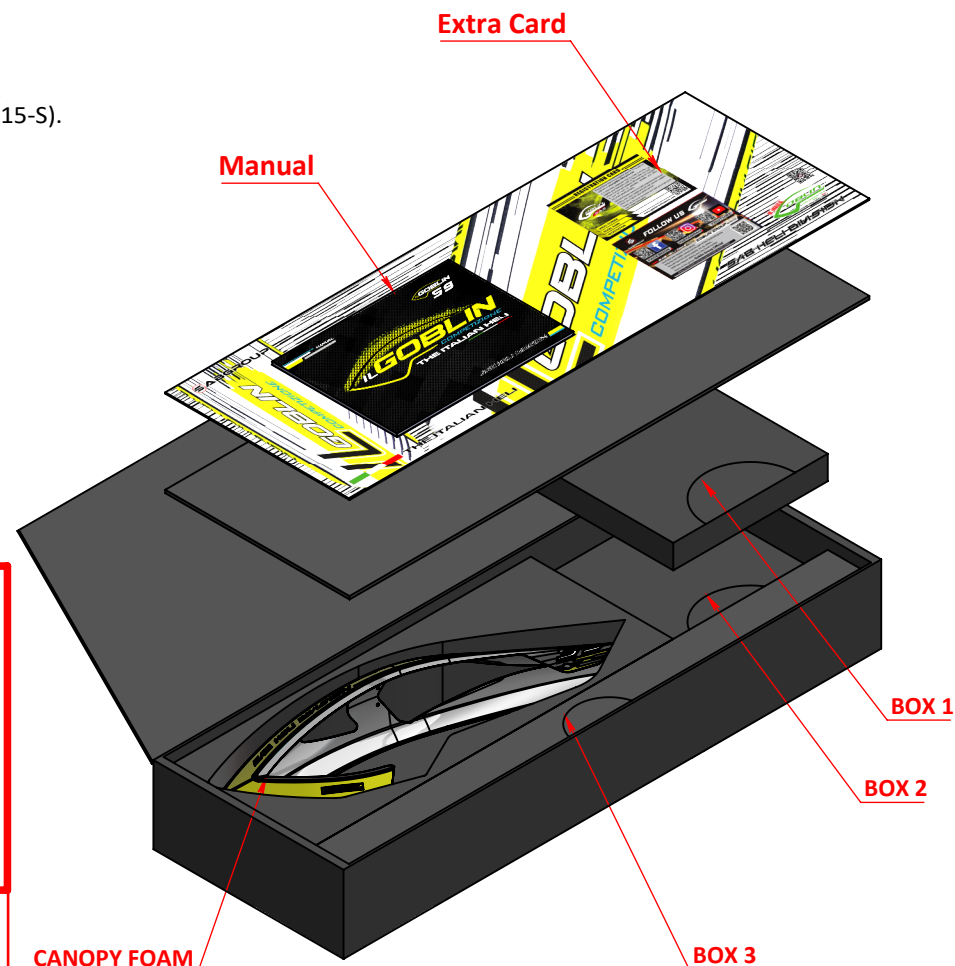
ADDITIONAL COMPONENTS REQUIRED

- *Electric 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).

INSIDE THE MAIN BOX THERE ARE:



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

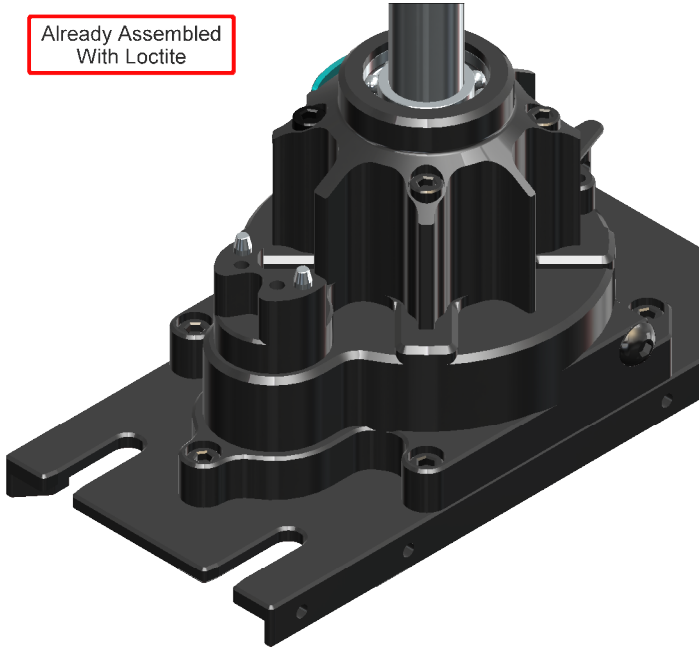
The assembly process is described in the following chapters. Each chapter provides you with the box, bag and/or foam numbers you will need for that chapter. The information is printed in a black box in the upper corner of the page.

BOXES 1-2 , BAG FOR PAGE 5

TRANSMISSION GROUP ASSEMBLED AND VERIFIED

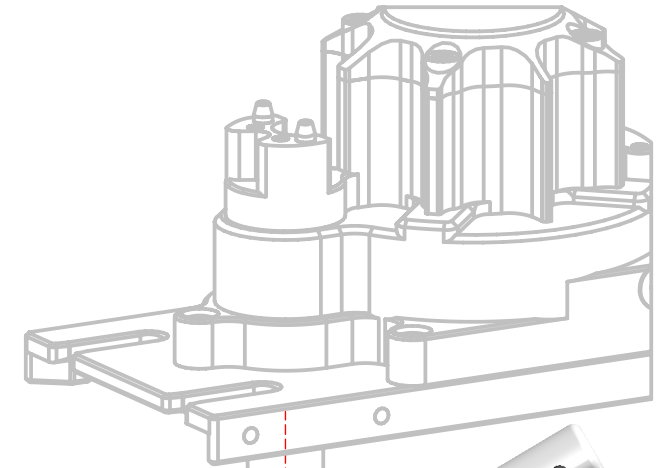
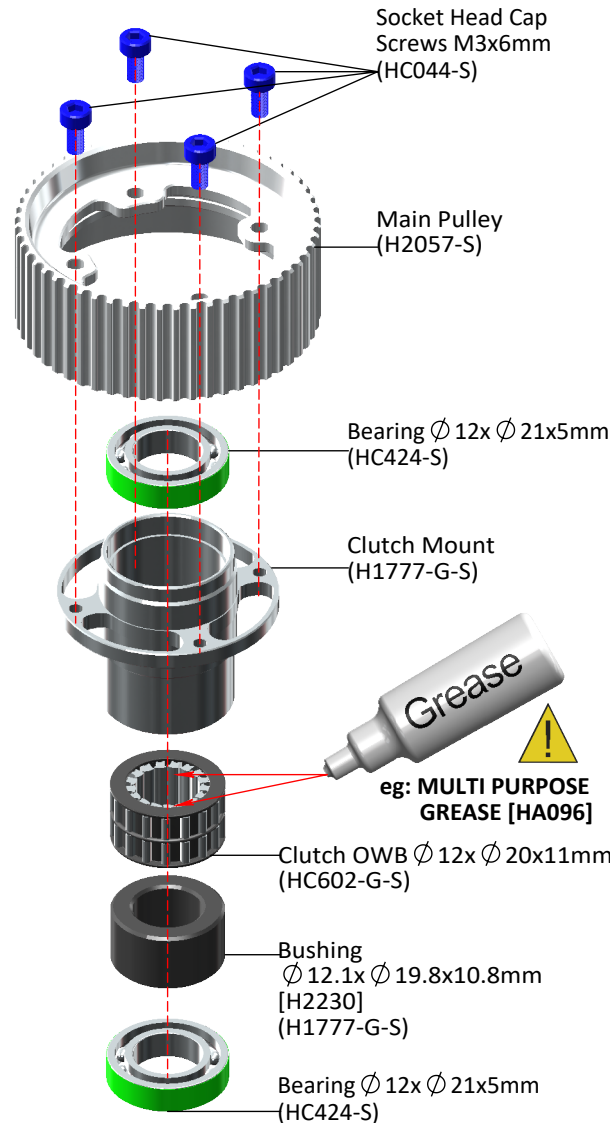
The unit is ready to use. Check **page 37** for more information.

Already Assembled
With Loctite



MAIN PULLEY ASSEMBLY

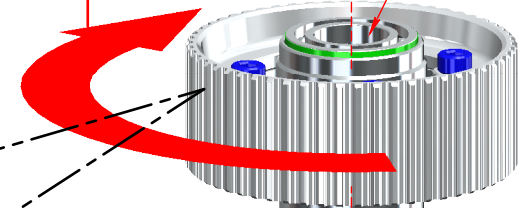
Already Assembled
With Loctite



Bushing $\varnothing 12.1x \varnothing 15x1.4$ [H1275] (H1777-G-S)

Grease
eg: MULTI PURPOSE GREASE [HA096]

FREE TURN PULLEY



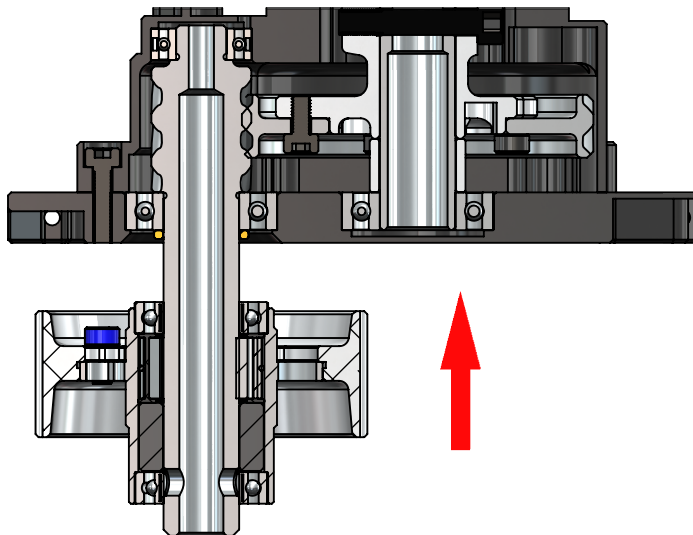
Shims $\varnothing 12.1x \varnothing 16x0.1$ mm [HC538] (H1778-S)
Use to remove play

Front Tail Pulley Assembly (H1778-S)

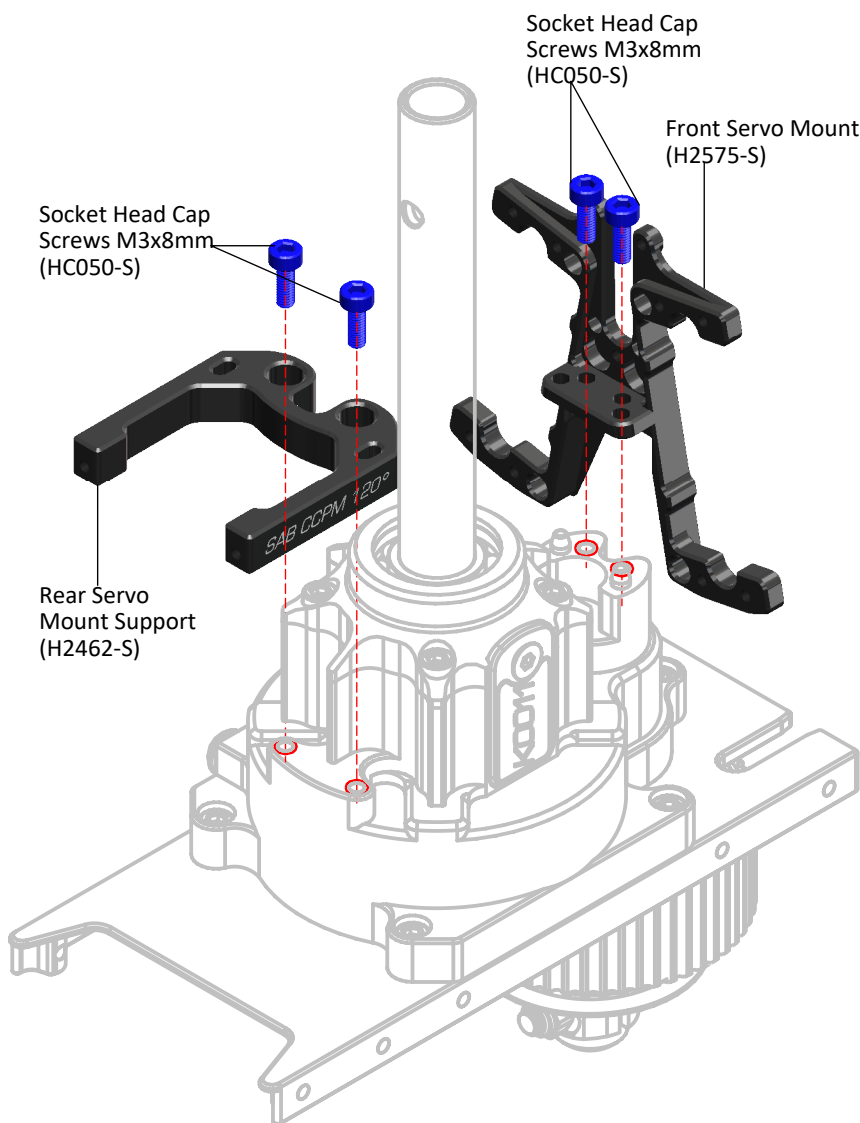
Already Assembled
With Loctite

Socket Head Cap Screw Shoulder M4x21.5mm (HC545-S)

Nylon Nut M4 (HC212-S)



SERVOS MOUNT ASSEMBLY



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)**

FRONT SERVOS ASSEMBLY ...x2

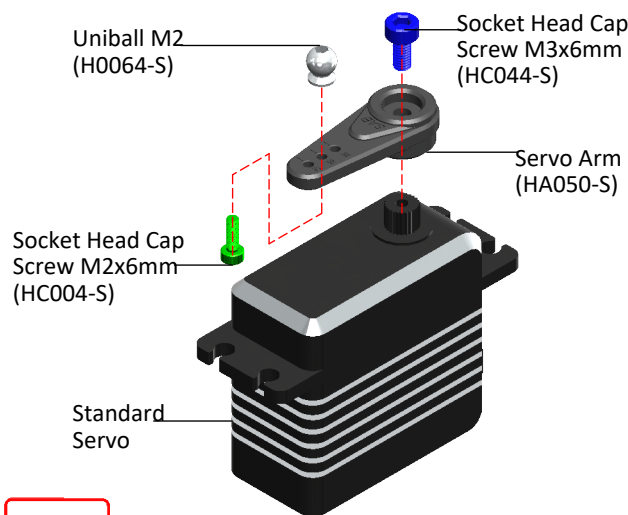
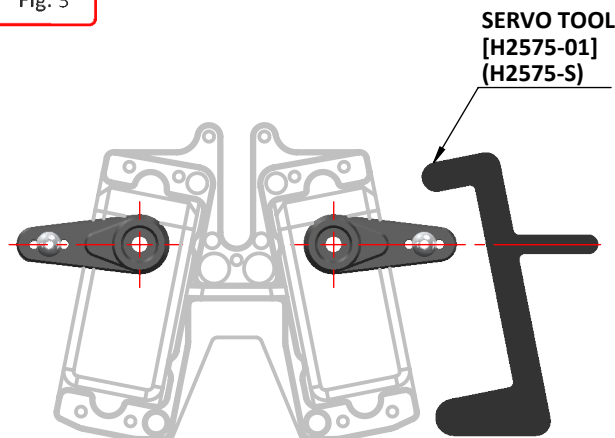
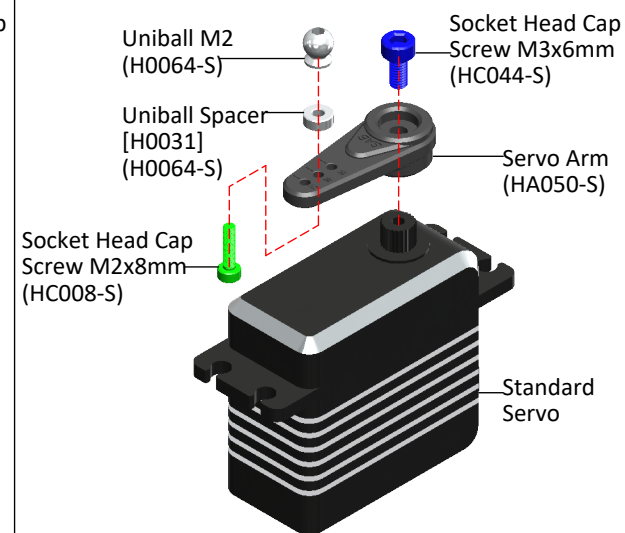
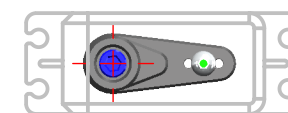


Fig. 3

REAR SERVO ASSEMBLY



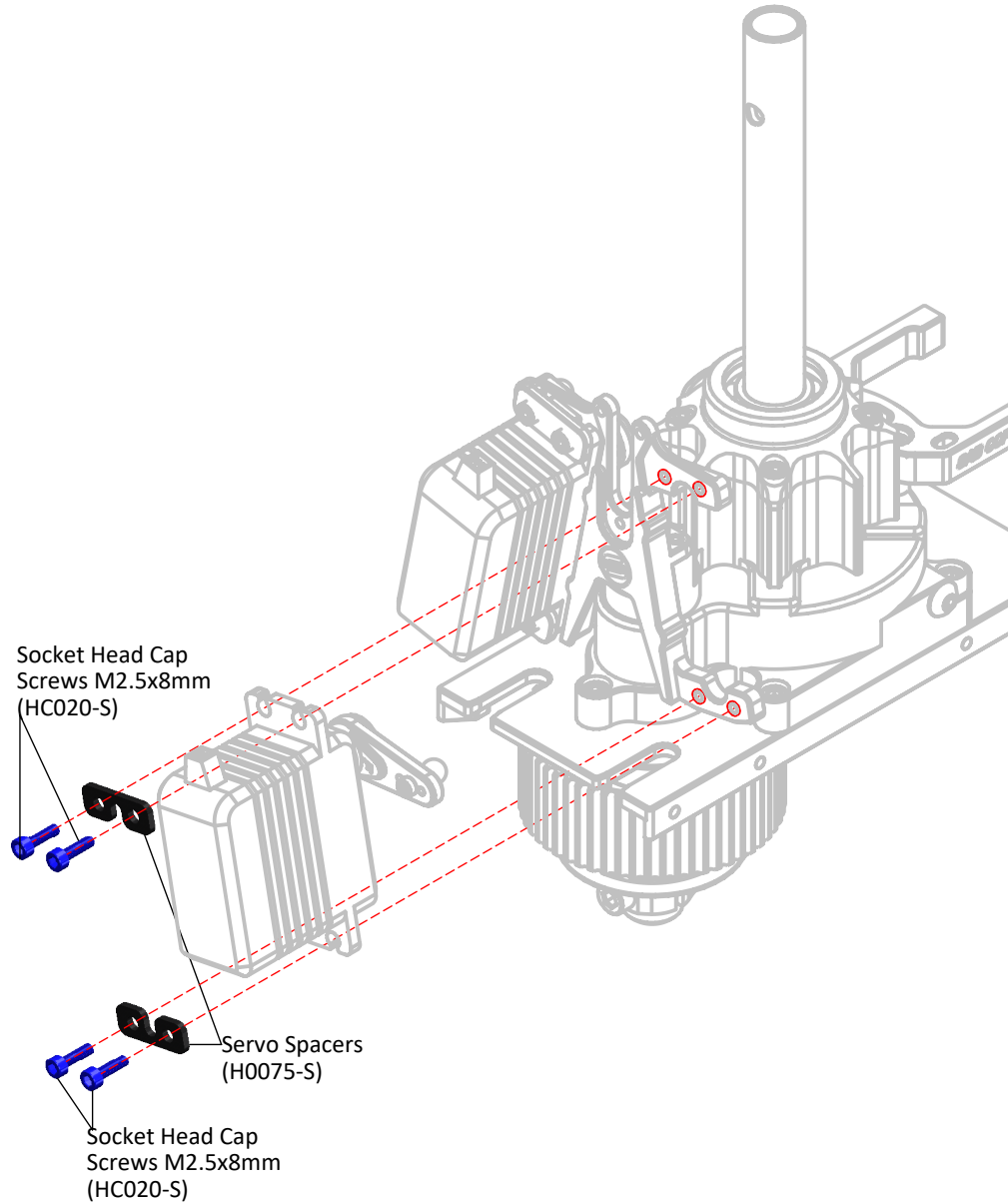
Front Servos



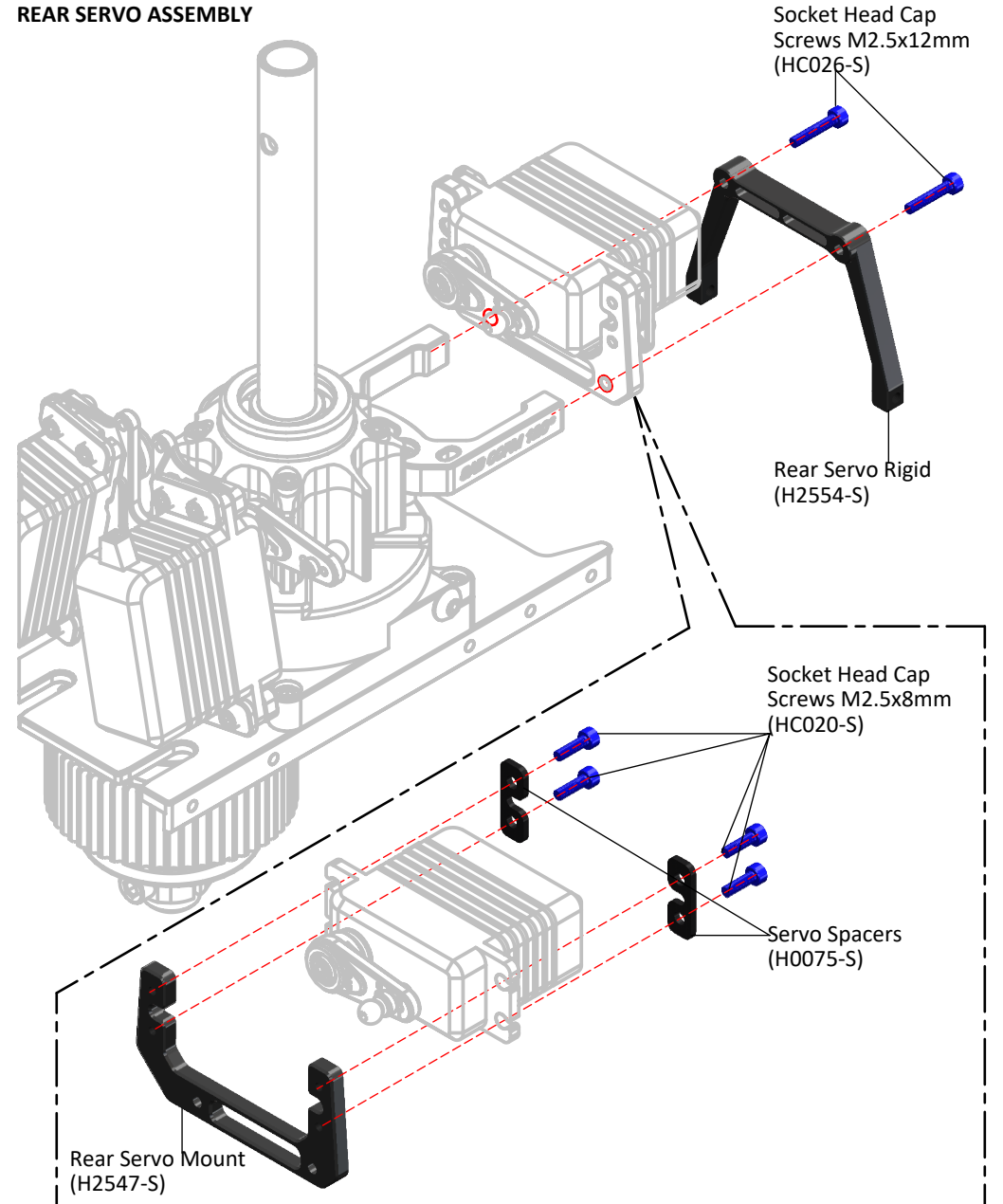
Rear Servo

BOX 1, BAG FOR PAGE 7

FRONT SERVOS ASSEMBLY

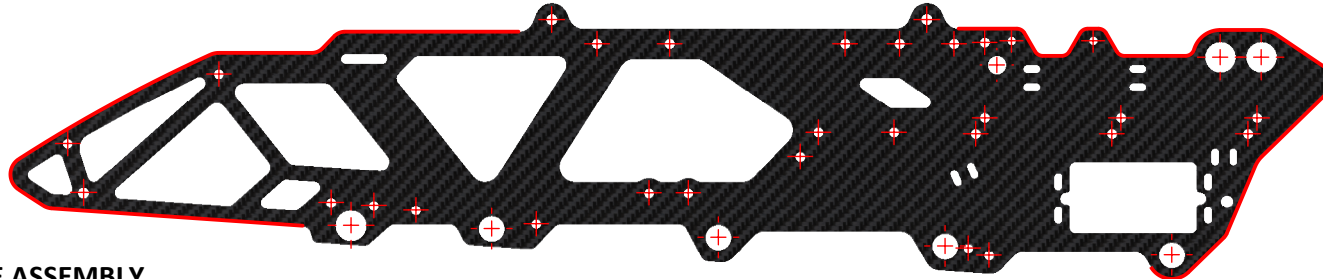


REAR SERVO ASSEMBLY

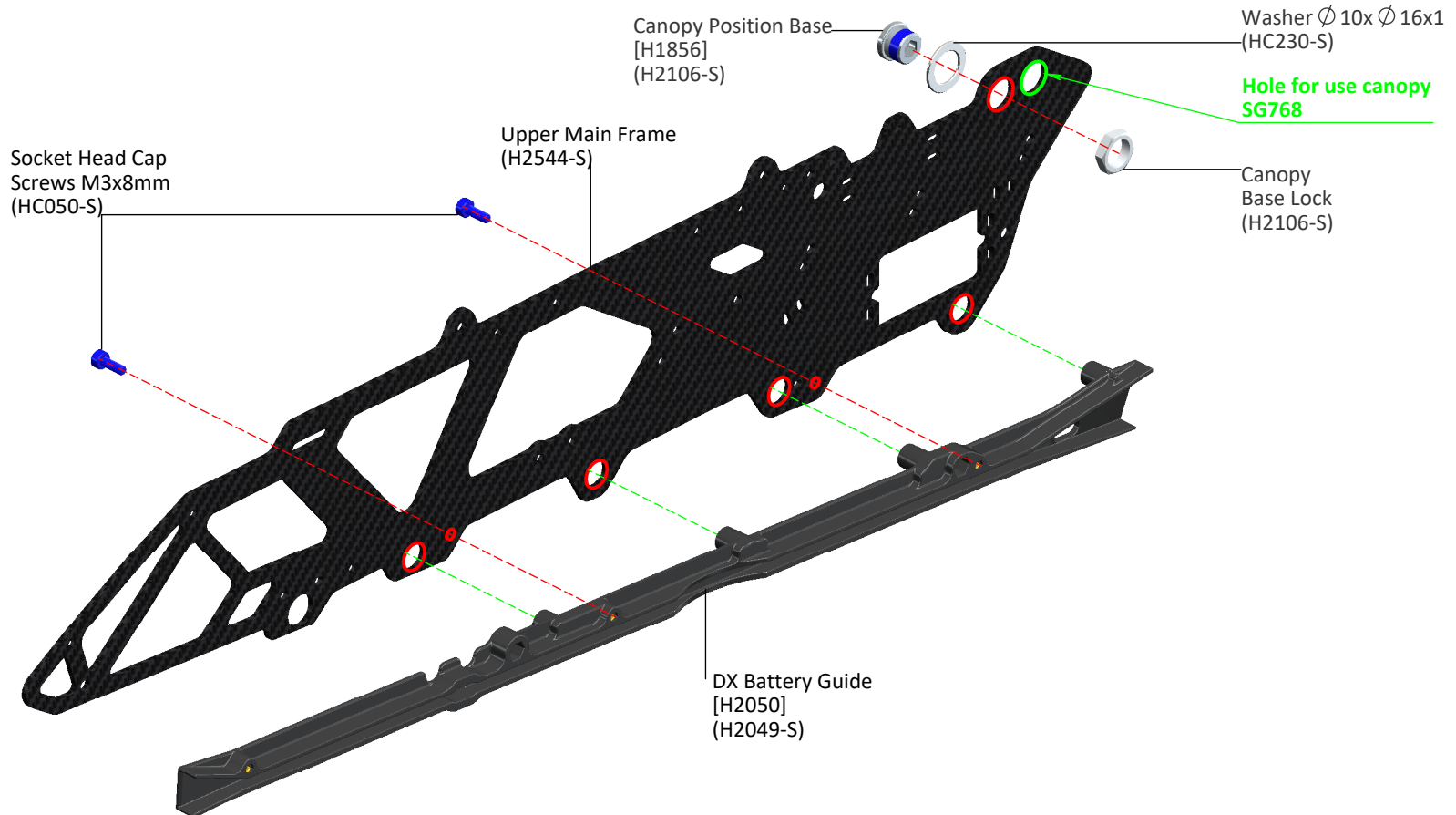


CARBON FRAME

 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.

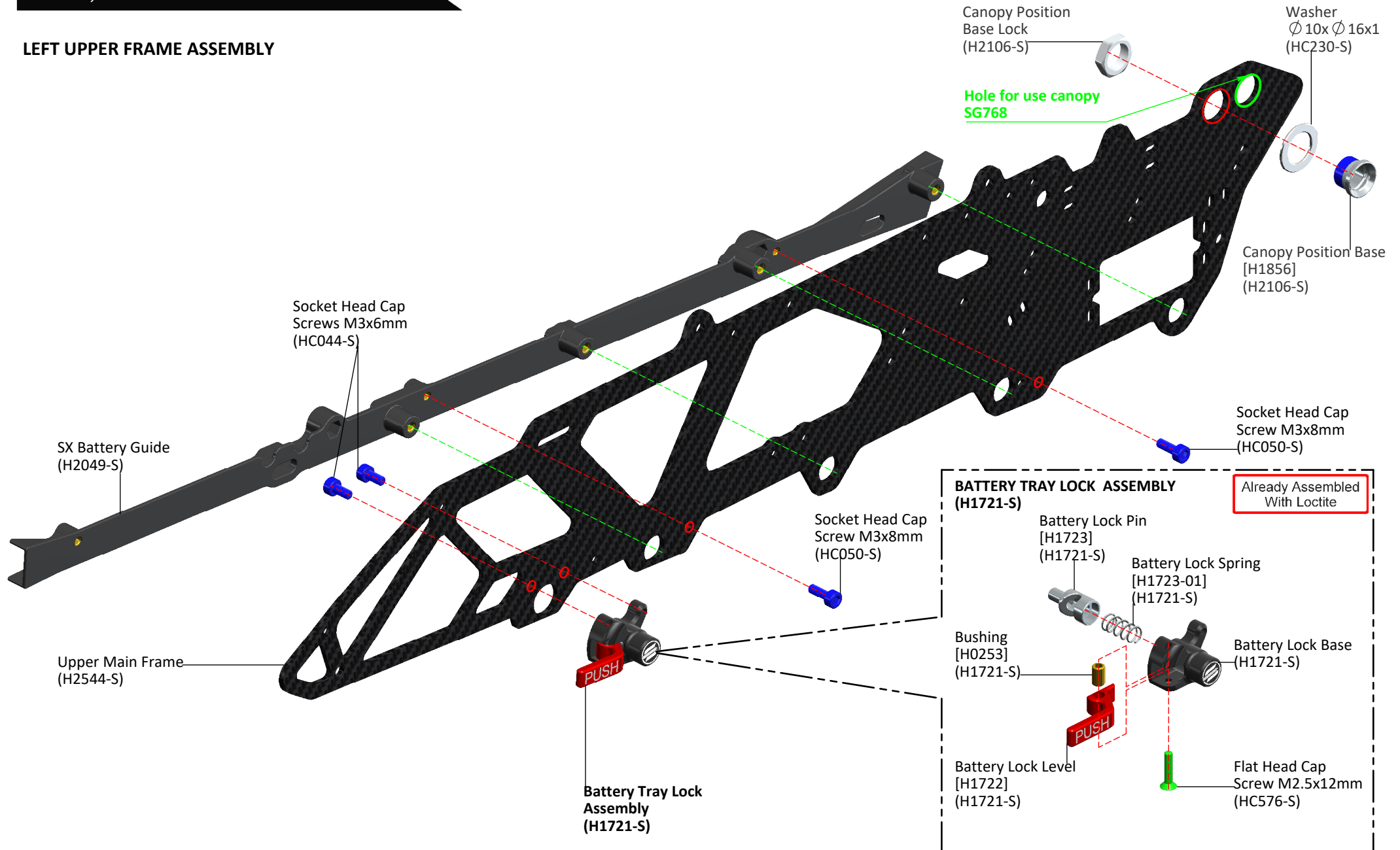


RIGHT UPPER FRAME ASSEMBLY



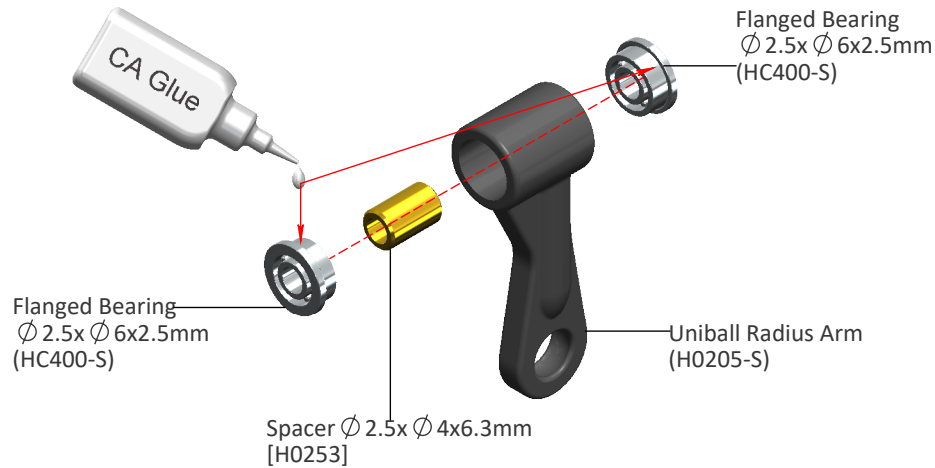
BOX 1, BAG FOR PAGE 9

LEFT UPPER FRAME ASSEMBLY

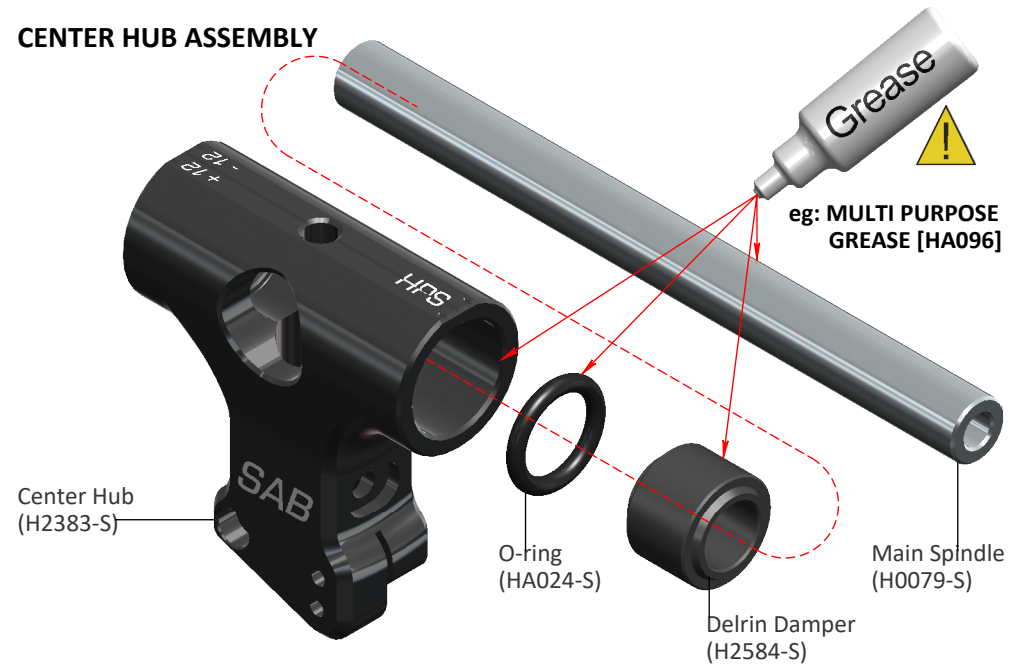


BOXES 1-2, BAG FOR PAGE 11

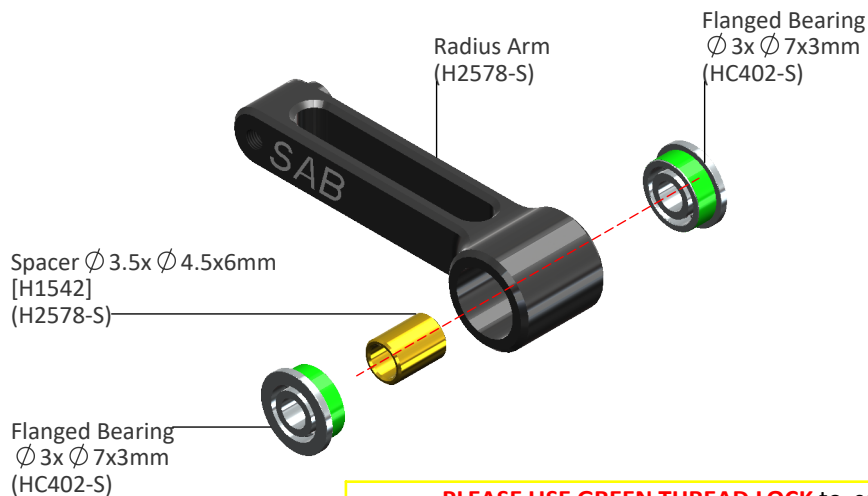
UNIBALL RADIUS ARM ASSEMBLY ...X2



CENTER HUB ASSEMBLY

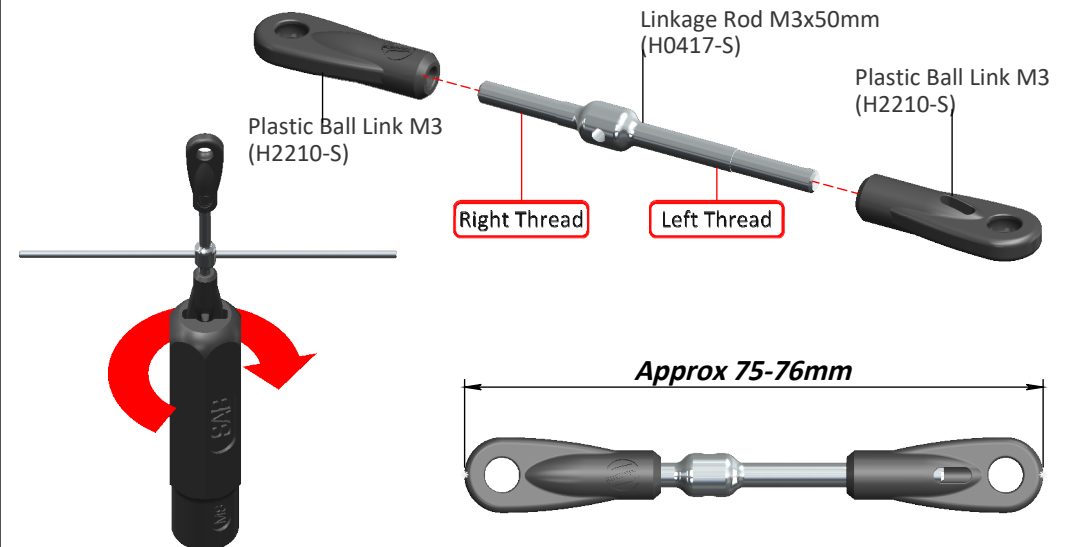


RADIUS ARM ASSEMBLY ...X2

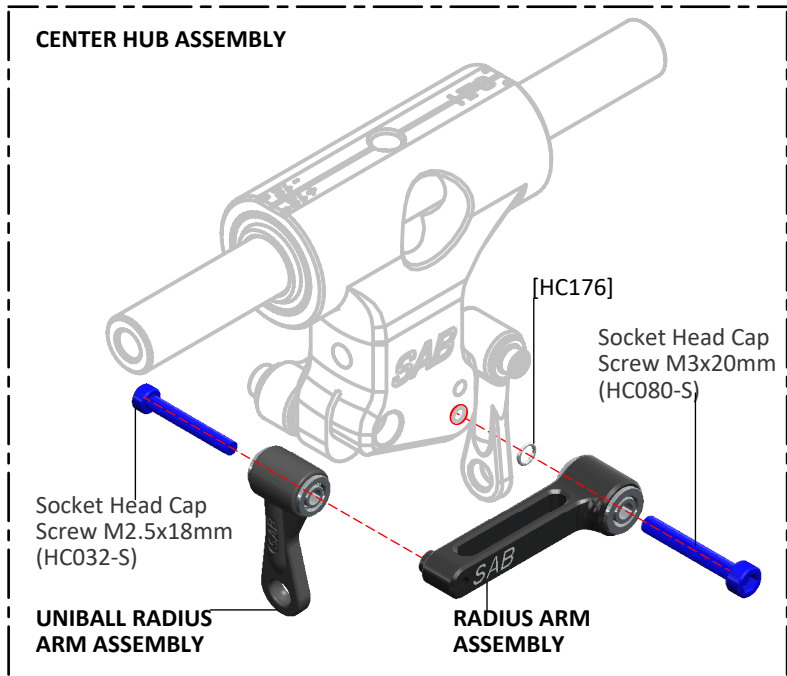


PLEASE USE GREEN THREAD LOCK to secure the bearings to the radius arms. Failure to secure the bearing will result in excessive slop/play.


LINKAGE ROD A ASSEMBLY ...X2



Note: You can use HA016 to easily thread the plastic link onto the rods.



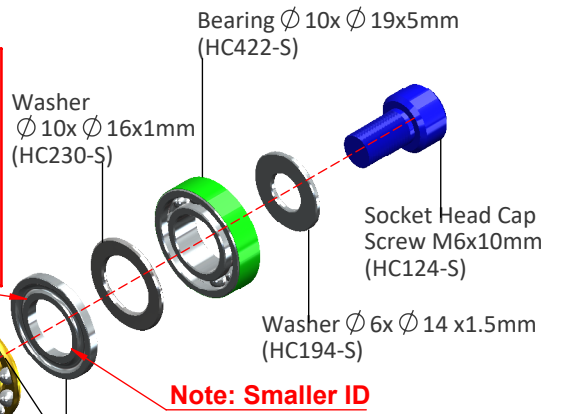
NOTE:



Shim $\phi 10 \times \phi 16 \times 0.2 \text{mm}$ [HC232-S] [Bag Shims]. After approximately 40/50 flights, please check preload, you can add one 0.2mm shim (HC232) on each side if preload has changed. However, we suggest to replace the o-rings after about 100 flights.

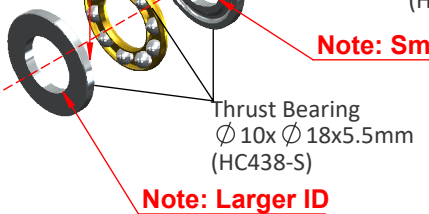


eg: MULTI PURPOSE GREASE [HA096]

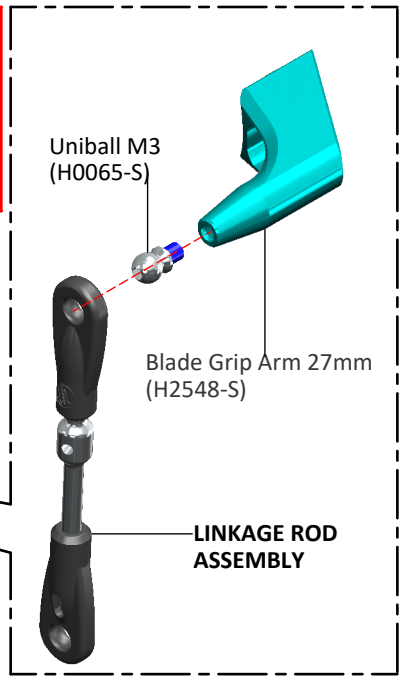


Blade Grip Assembly (H1790-S)

Already assembled with 1 bearing

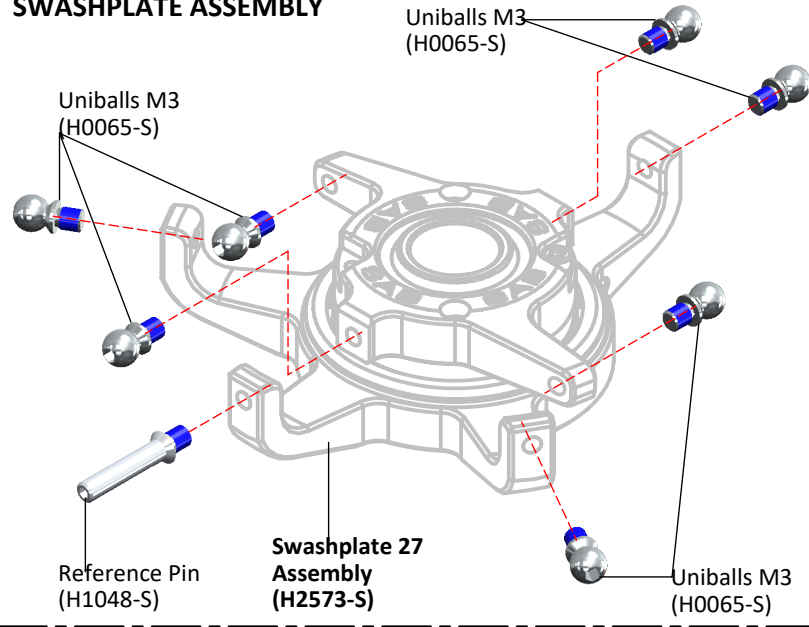



Suggested: Use this hole to apply grease after several flights



BOXES 1-2, BAG FOR PAGE 13

SWASHPLATE ASSEMBLY



Socket Head Cap Screw M3x12mm (HC062-S)

Socket Head Cap Screw Shoulder M4x24mm (HC111-S)

HEAD GROUP ASSEMBLY

Metric Hex Nylon Nut M4 (HC212-S)

Socket Head Cap Screw M3x12mm (HC062-S)



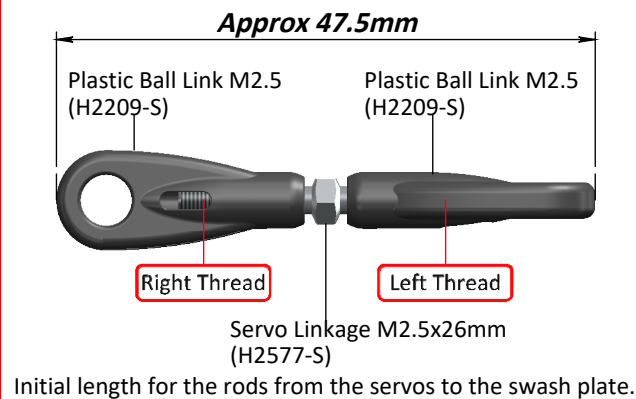
eg: MULTI PURPOSE GREASE [HA096]

Delrin Anti-rotation Guide (H2576-S)

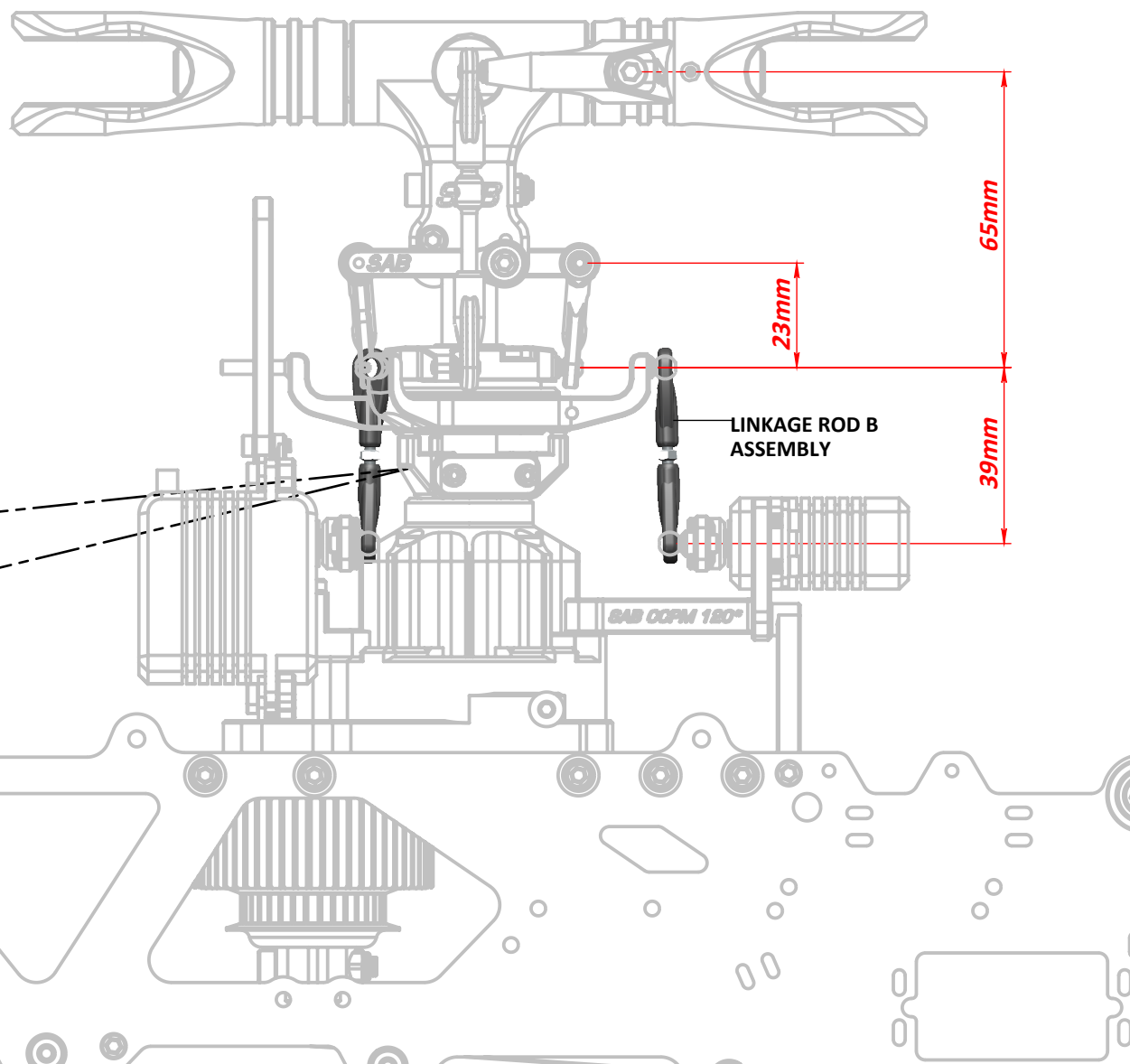
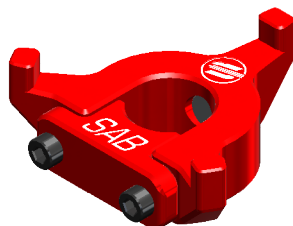
Socket Head Cap Screws M2.5x8mm (HC020-S)

UPPER FRAME & TRANSMISSION GROUP ASSEMBLY


LINKAGE ROD B ASSEMBLY ... X3

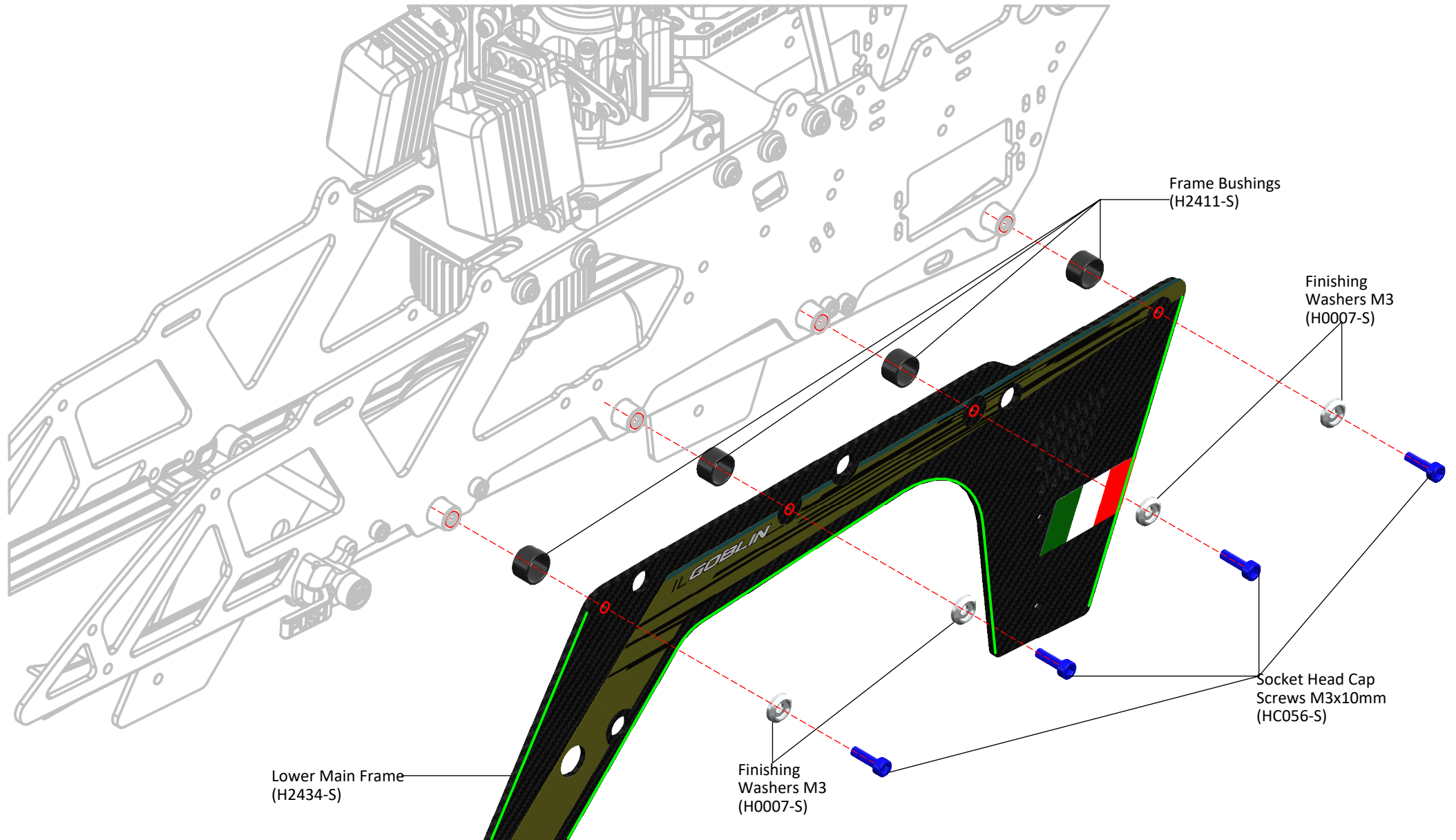


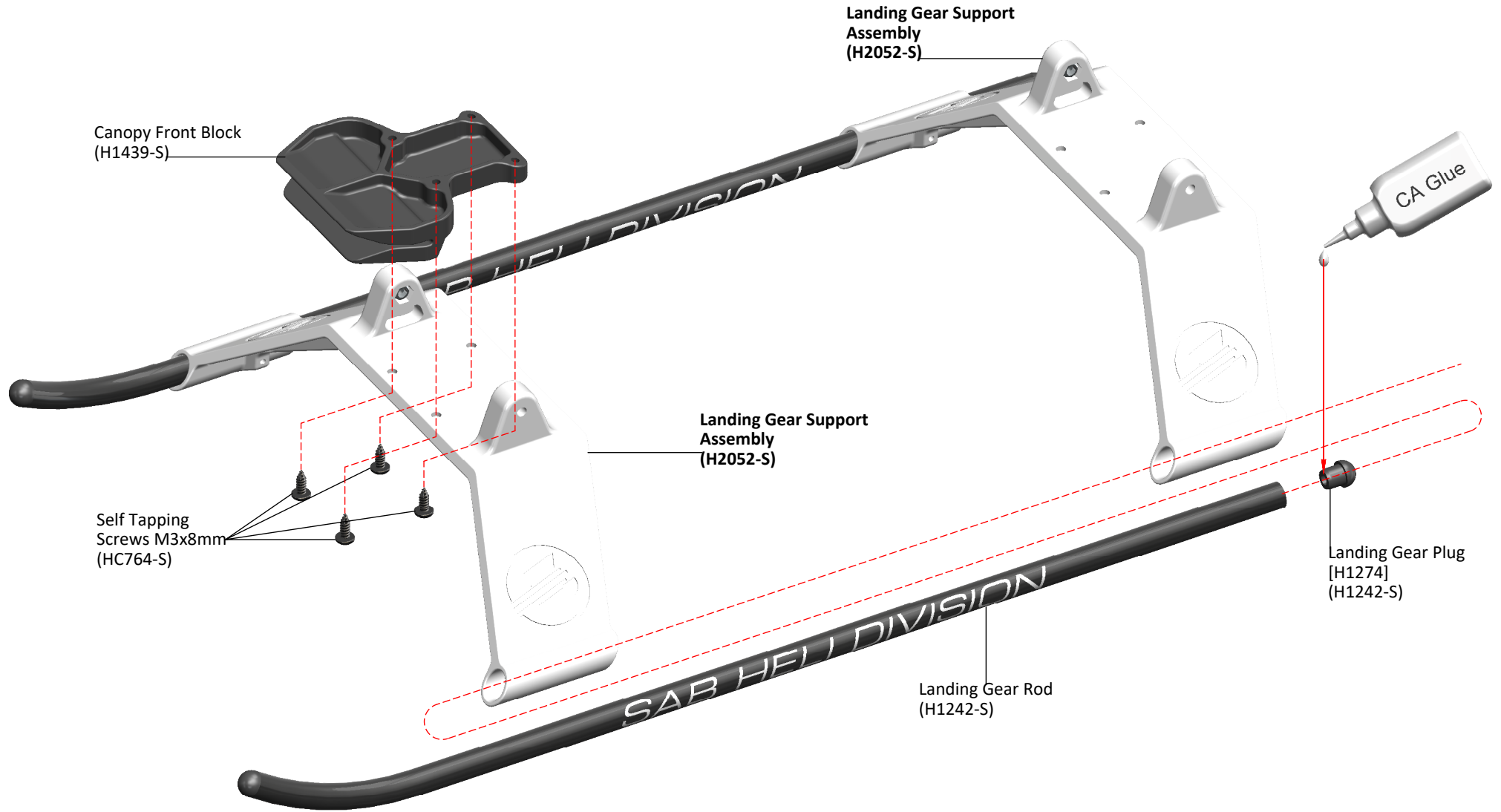
SUGGESTED:
You can use the Swashplate Leveler H2461-S
(Not included KIT)



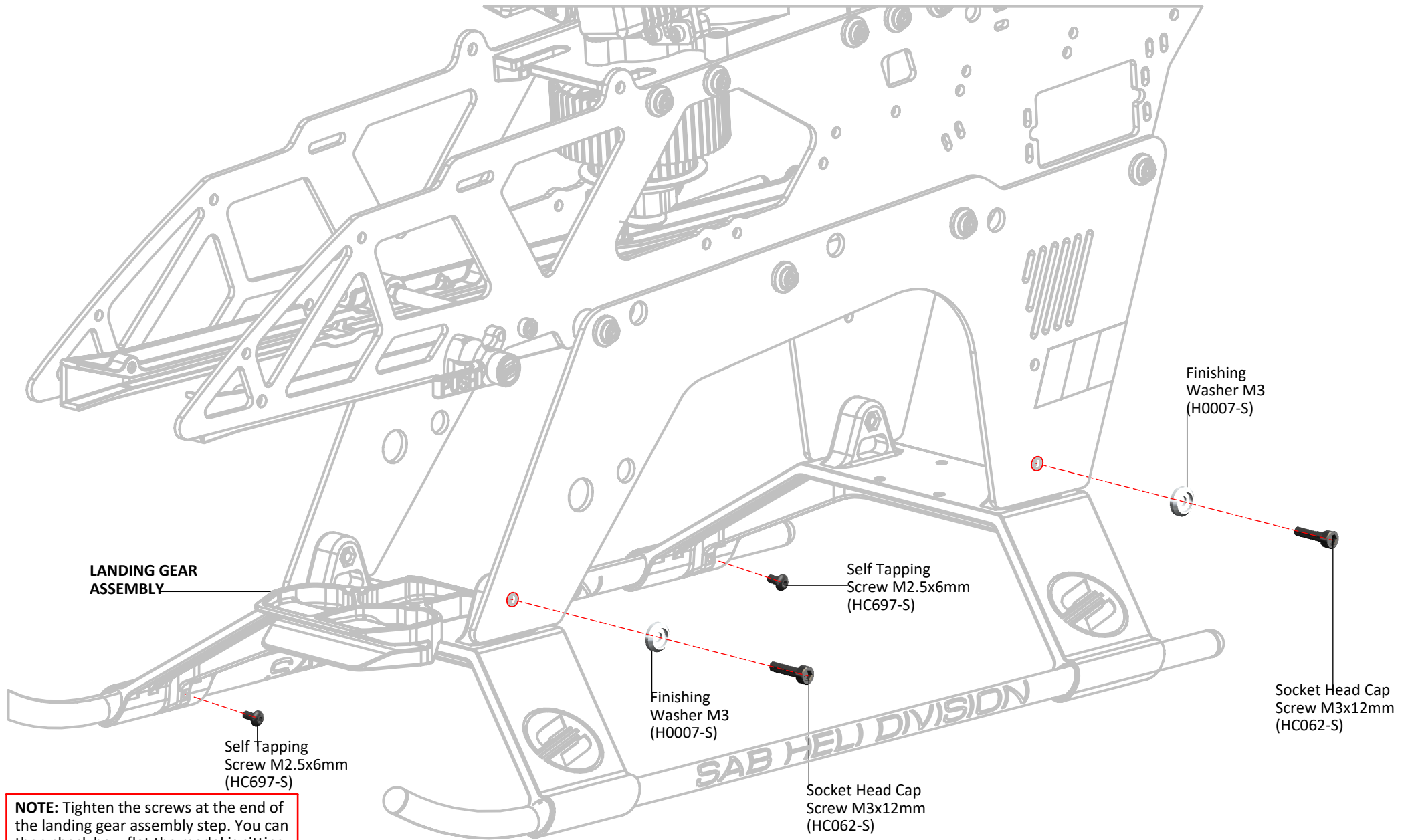
BOX 1, BAG FOR PAGE 15

 We recommend de-burring the edges to minimize the risks of electrical wire cuts, etc.
It is very important to do this along the green lines.





BOX 1, BAG FOR PAGE 17



NOTE: Tighten the screws at the end of the landing gear assembly step. You can then check how flat the model is sitting.

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**

ILGOBLIN PIUMA COMPETIZIONE CONFIGURATIONS					
Battery	Motor	ESC	Pinion (a, b)	RPM Max (a, b)	Pitch
12S 4200/5500 mAh	Scorpion HK5-4525-535kv	HV180 V5	21T / 22T	2100/2200	± 12
	Xnova 4525-530kv lightning	Kosmik 170HV YGE 205HVT			
	Pyro 750-560 TENGU 4525HT/550KV	Scorpion Tribunus III 14-180A	20T / 21T		
12S 4500/5500 mAh	Xnova 4530-525kv lightning	HV260 V5	22T / 23T	2200/2300	± 13
	Pyro 800-480	Kosmik 250HV YGE 205HVT	24T / 25T		
	Scorpion HK5-5024-535kv	Scorpion Tribunus III 14-220A	21T / 22T		

3rd Bearing Support Assembly (H0143-S)

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

Motor Mount Assembly (H2056-S)

Already Assembled With Loctite

Socket Head Cap Screw M3x6mm (HC044-S)

Washers $\phi 5.3 \times \phi 15 \times 1 \text{mm}$ (HC188-S)

Metric Hex Nylon Nuts M5 (HC218-S)

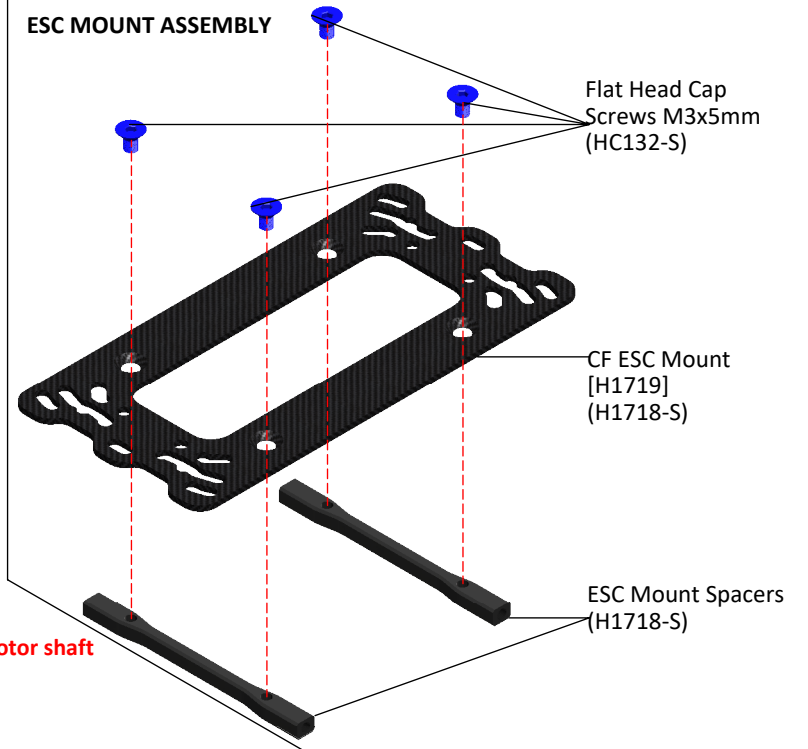
Set Screw M4x6mm (HC153-S)

Motor Pulley 22T (H0175-22-S)

Flat Head Cap Screws M4x6mm (HC351-S)

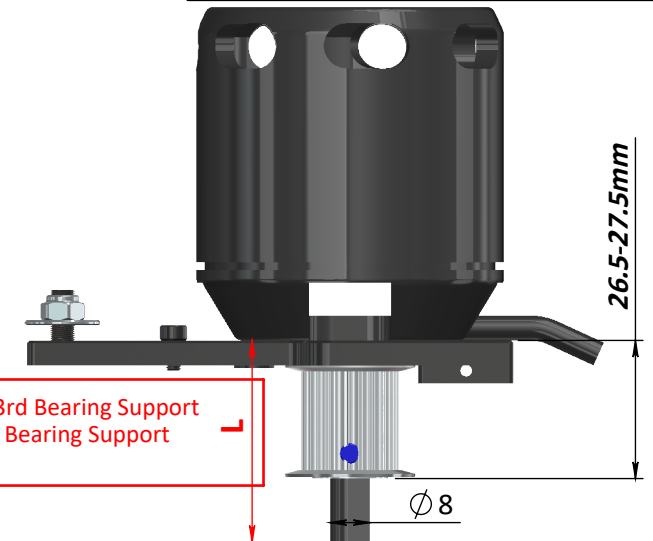
Motor Bushing [H0176] (H0175-S)

Use with 6mm motor shaft



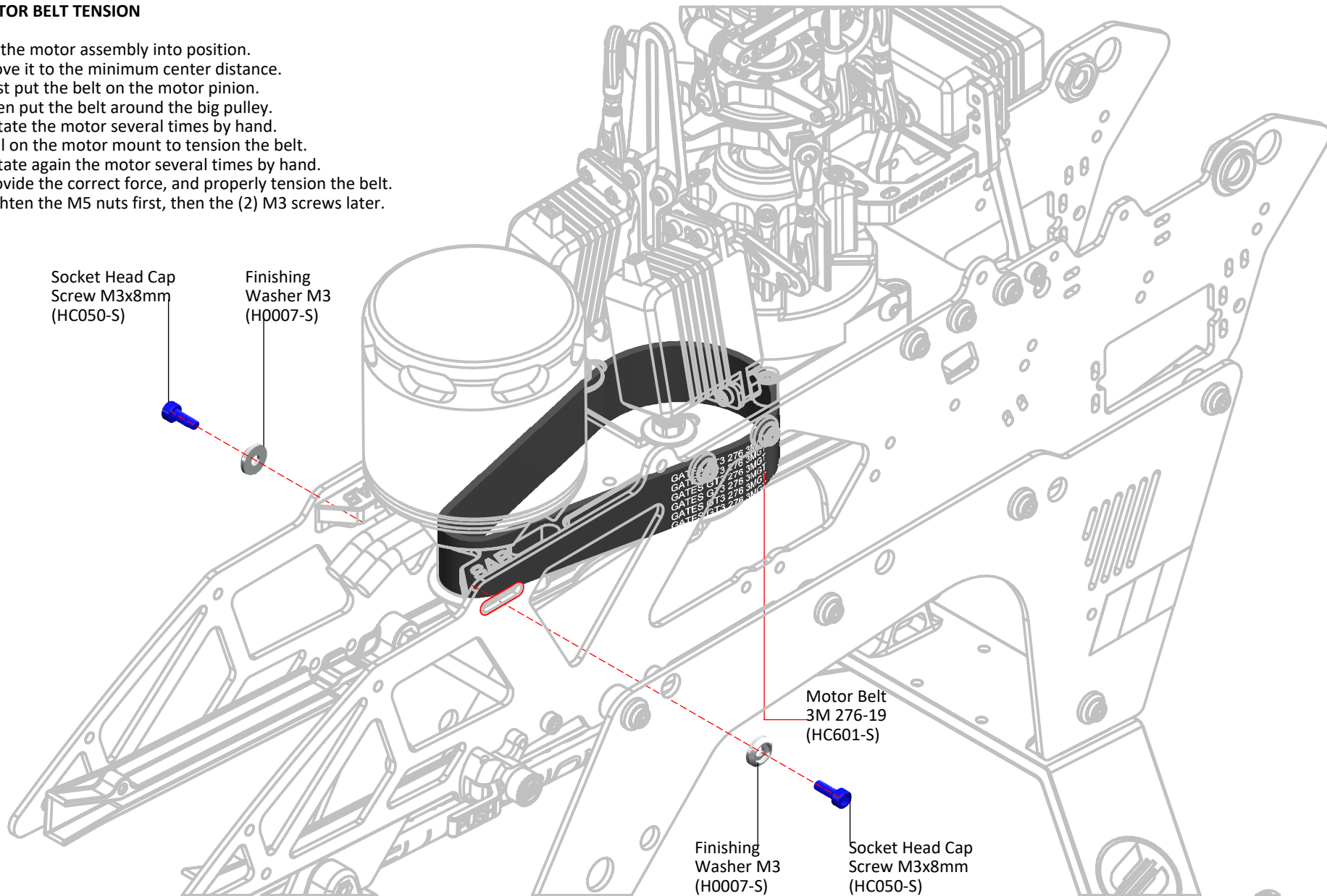
NOTE:
Motor wires pointing forward.

MIN : 28mm. Not use 3rd Bearing Support
MIN : 34mm. With 3rd Bearing Support
MAX: 40mm.



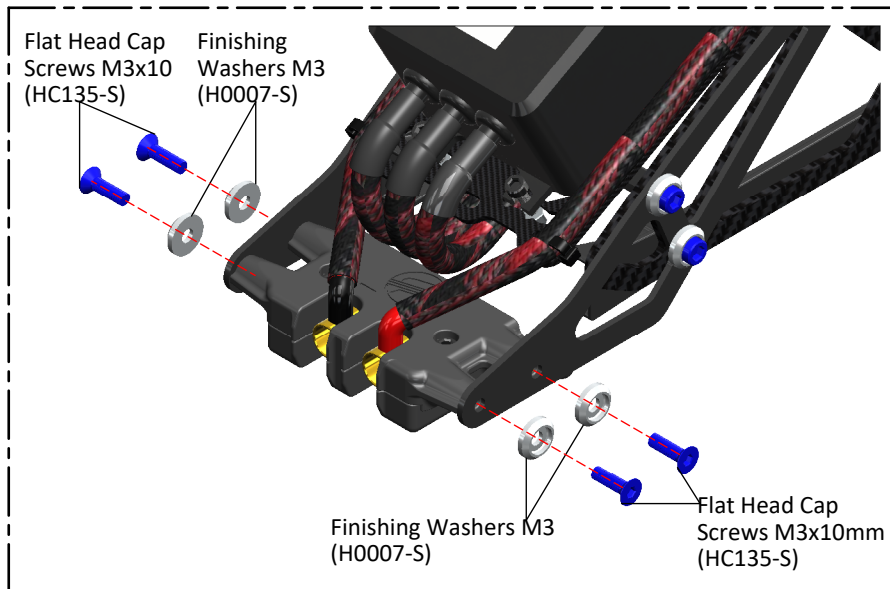
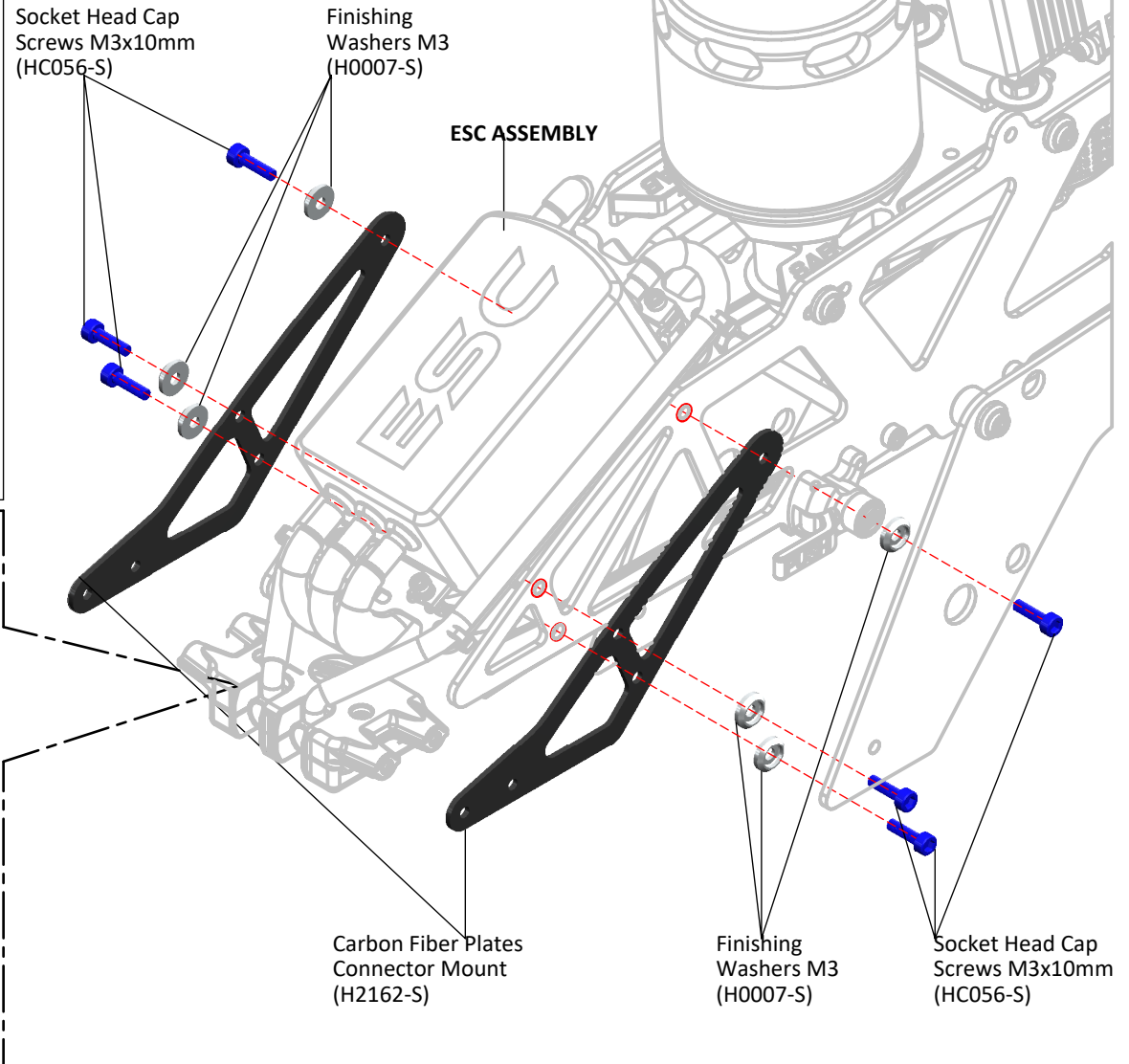
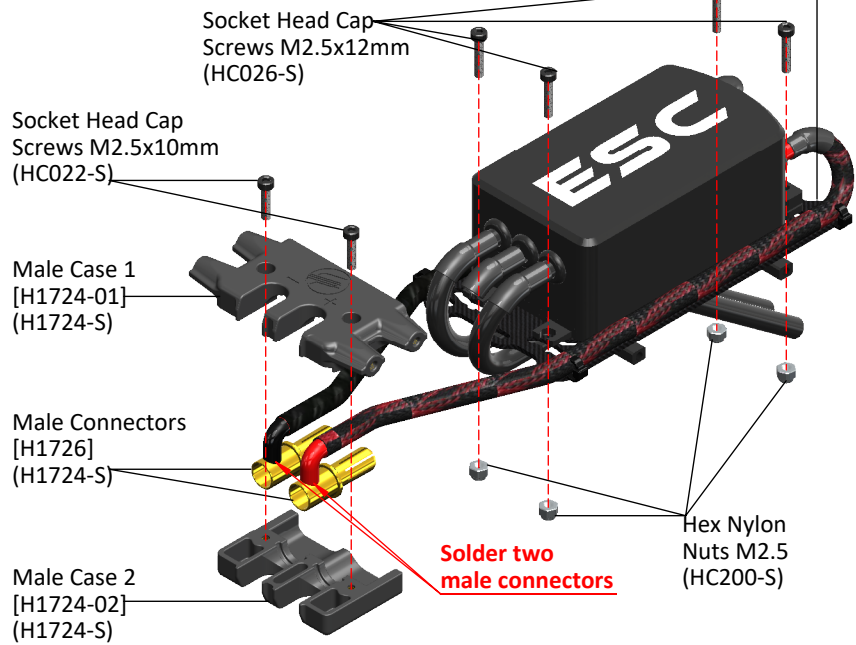
MOTOR BELT TENSION

- *Fit the motor assembly into position.
- *Move it to the minimum center 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.



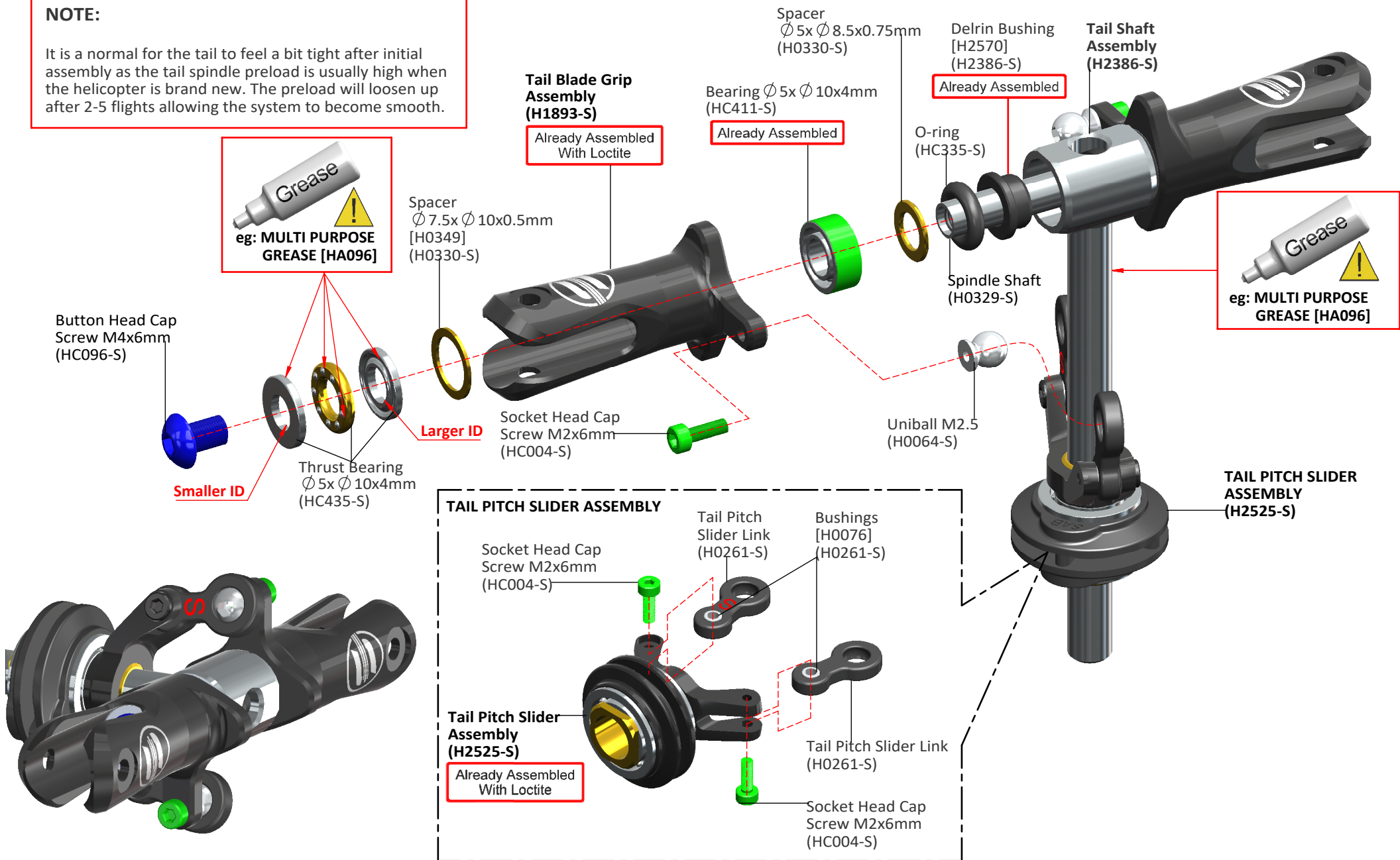
BOX 1, BAG FOR PAGE 21

ESC Support Assembly

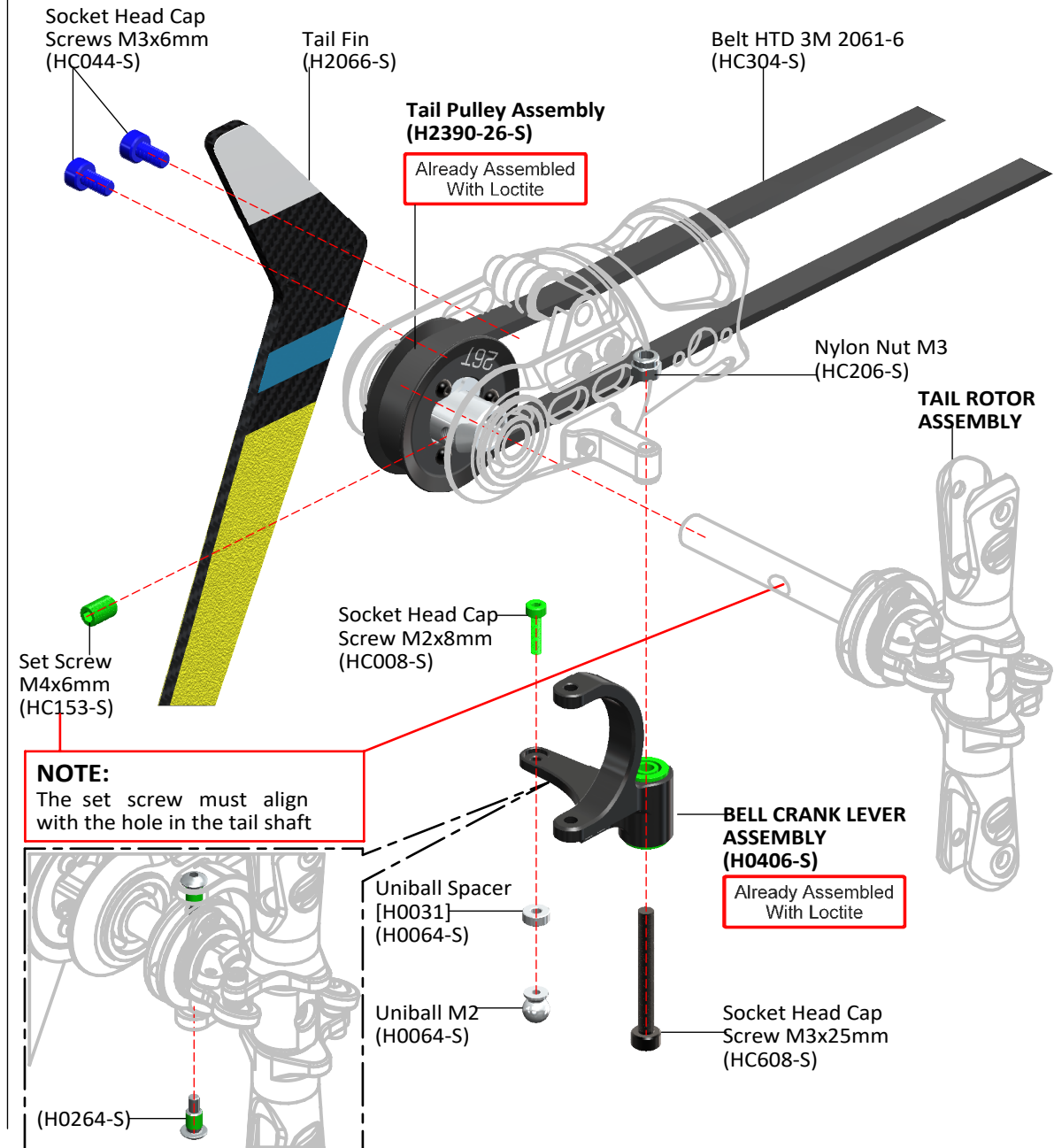
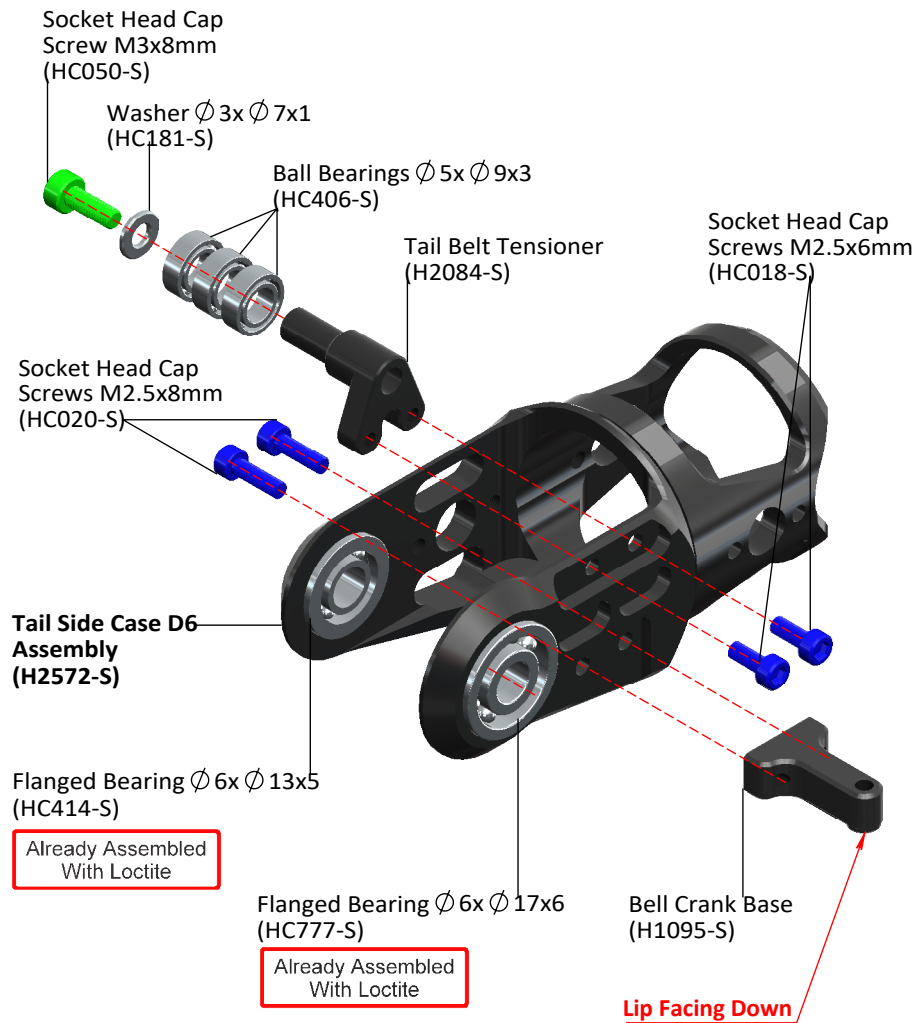


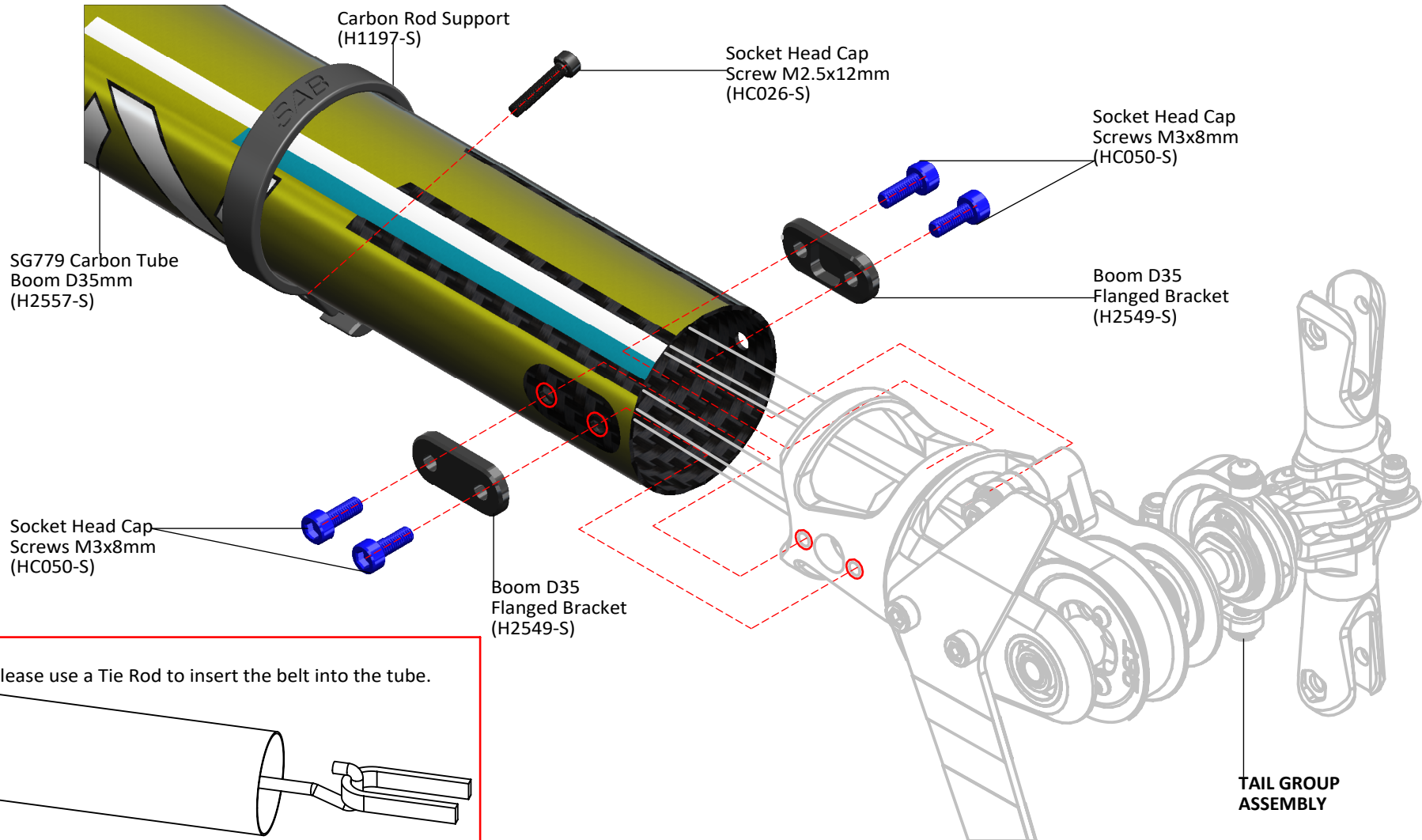
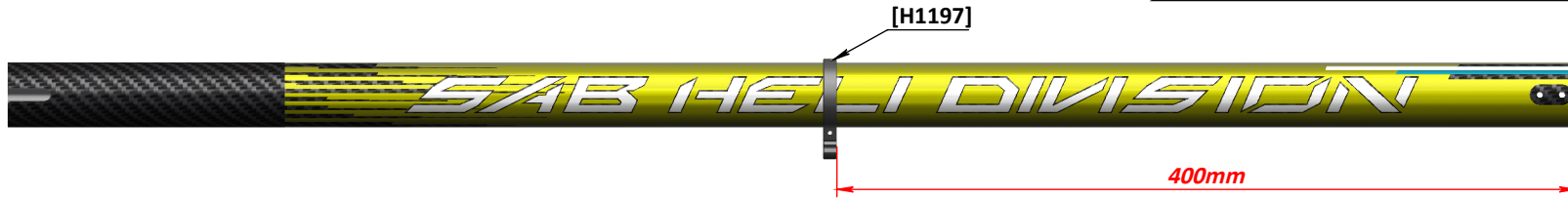
NOTE:

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

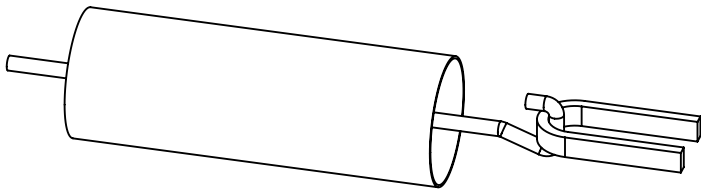


BOXES 1-2, BAG FOR PAGE 23

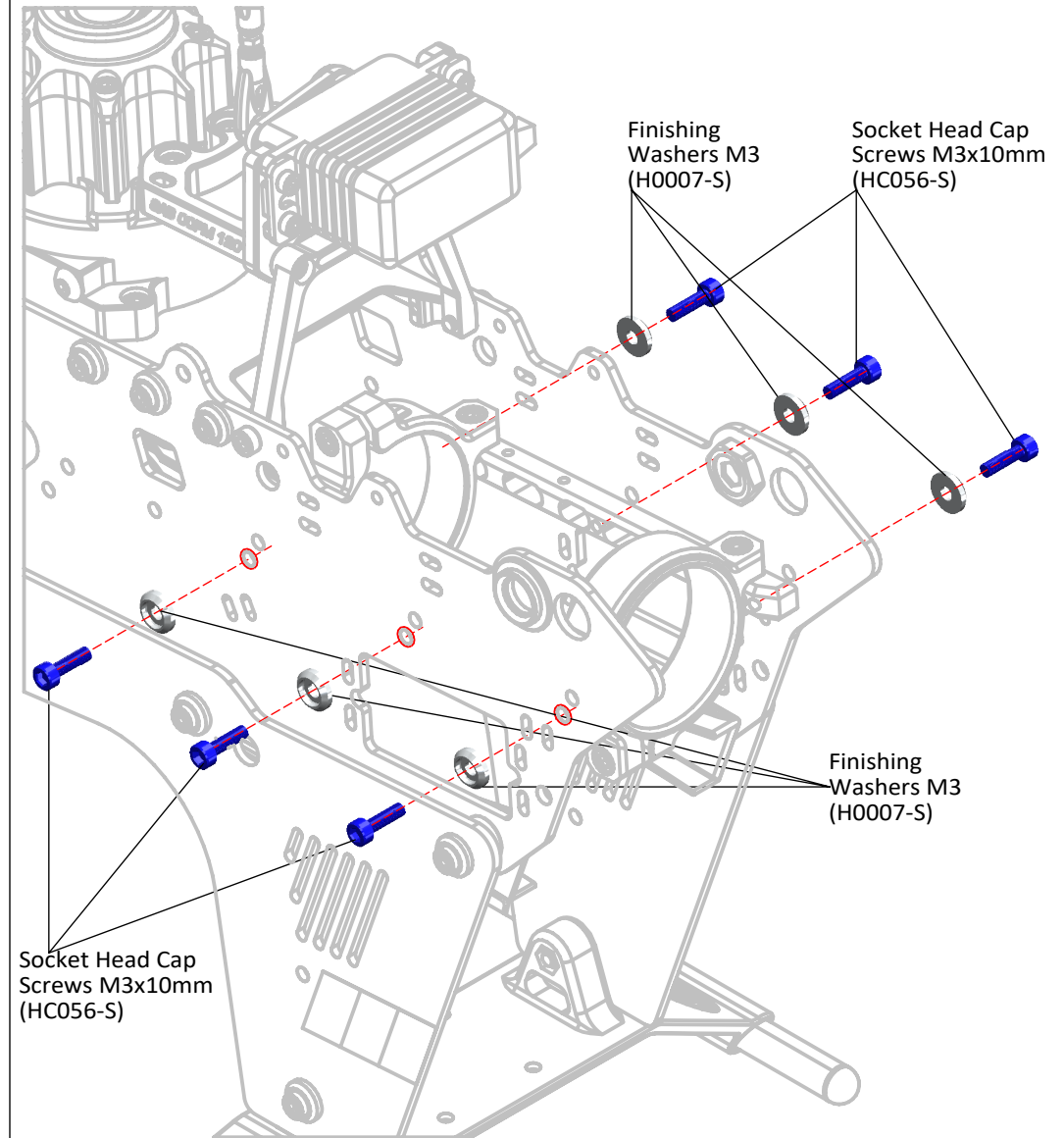
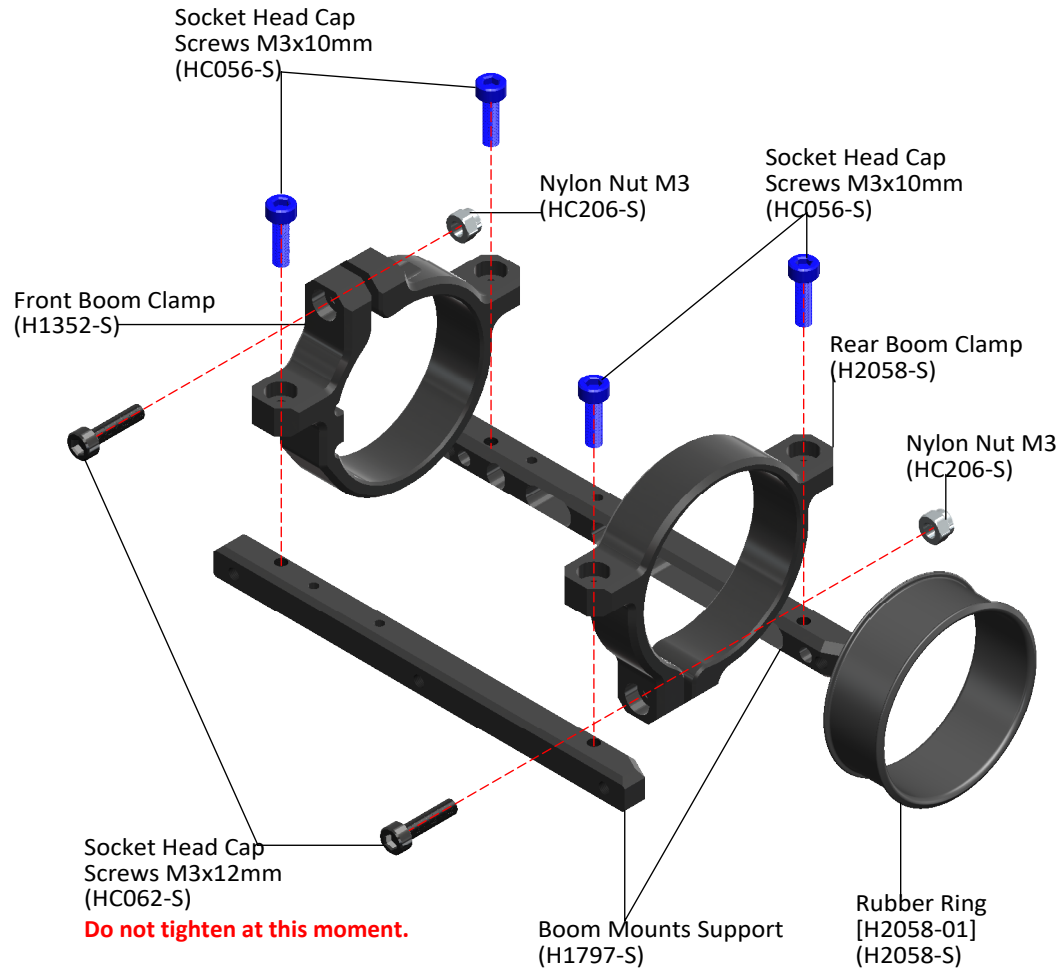




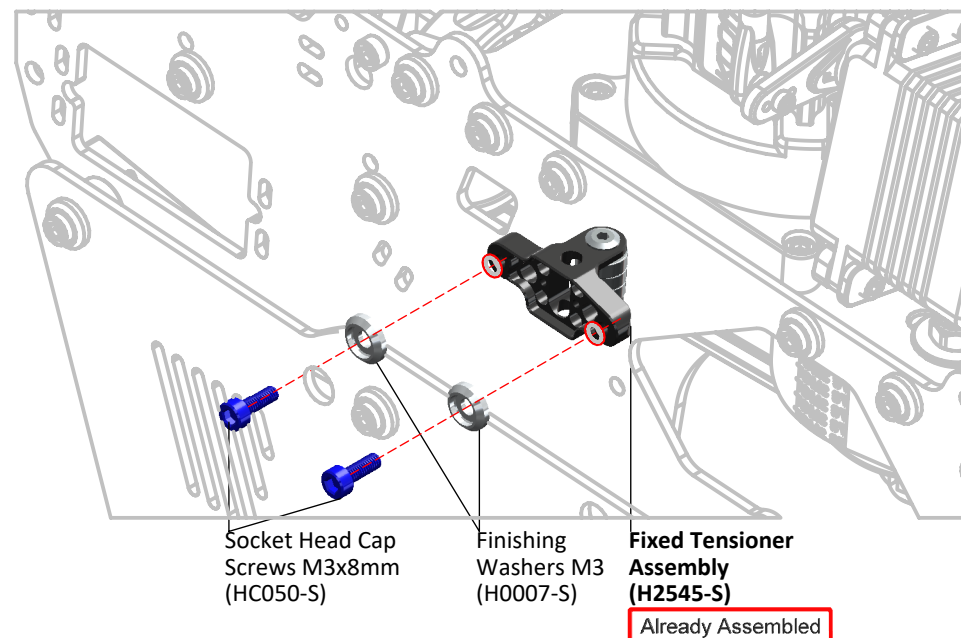
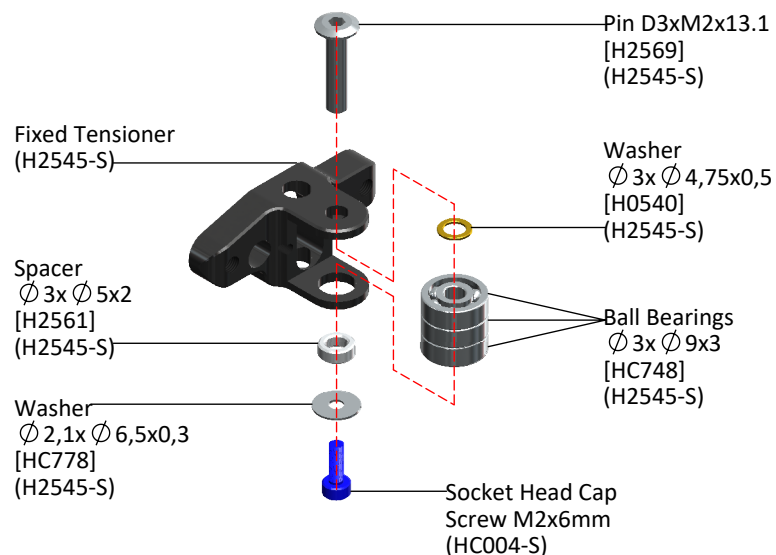
NOTE:
Please use a Tie Rod to insert the belt into the tube.



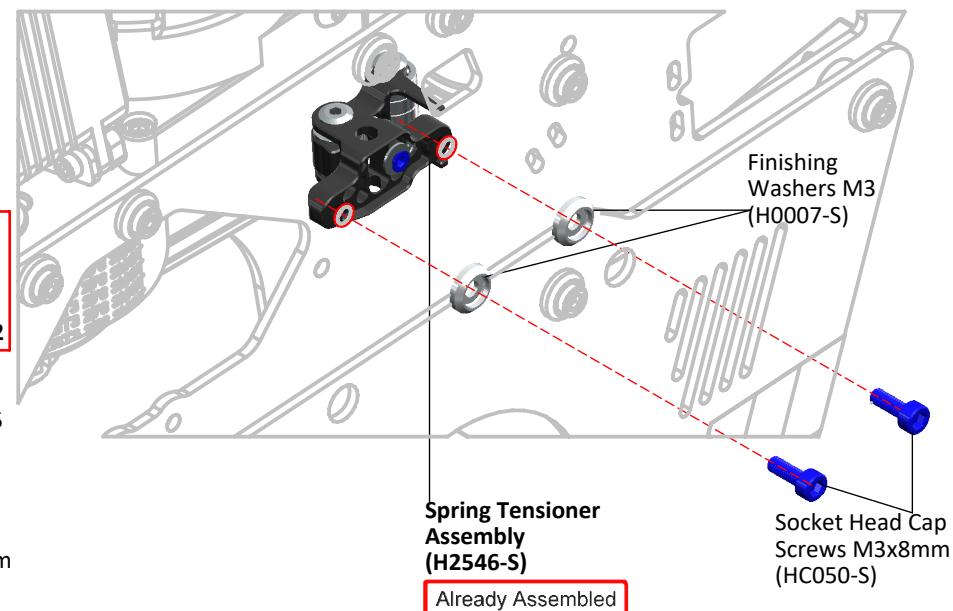
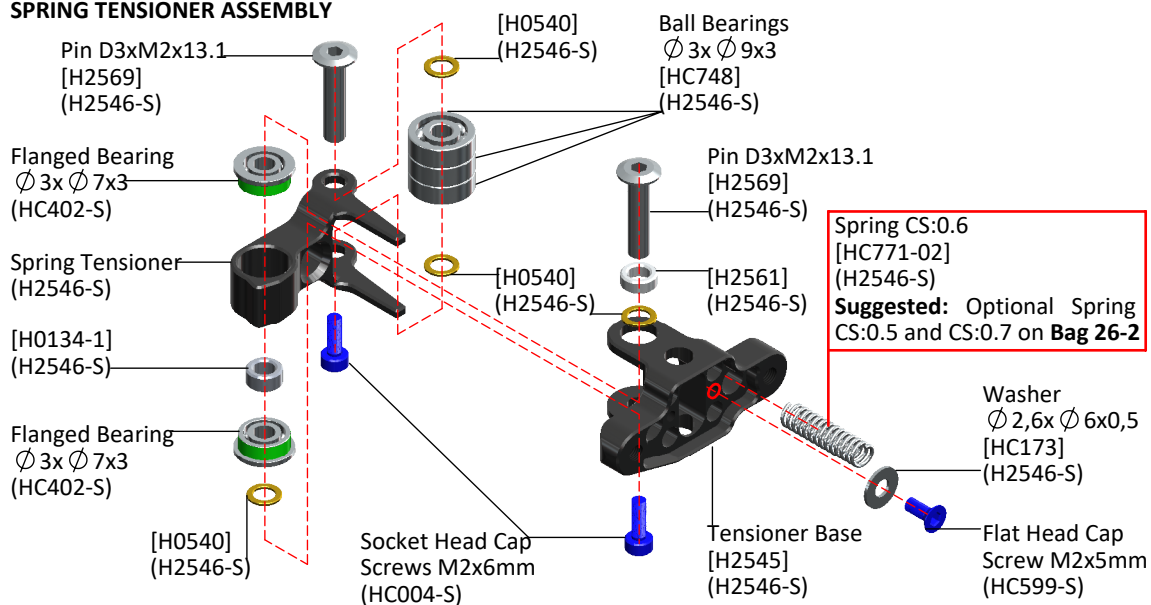
BOX 1, BAG FOR PAGE 25



FIXED TENSIONER ASSEMBLY



SPRING TENSIONER ASSEMBLY



BOX 1, BAG FOR PAGE 27

TAIL BOOM ASSEMBLY

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

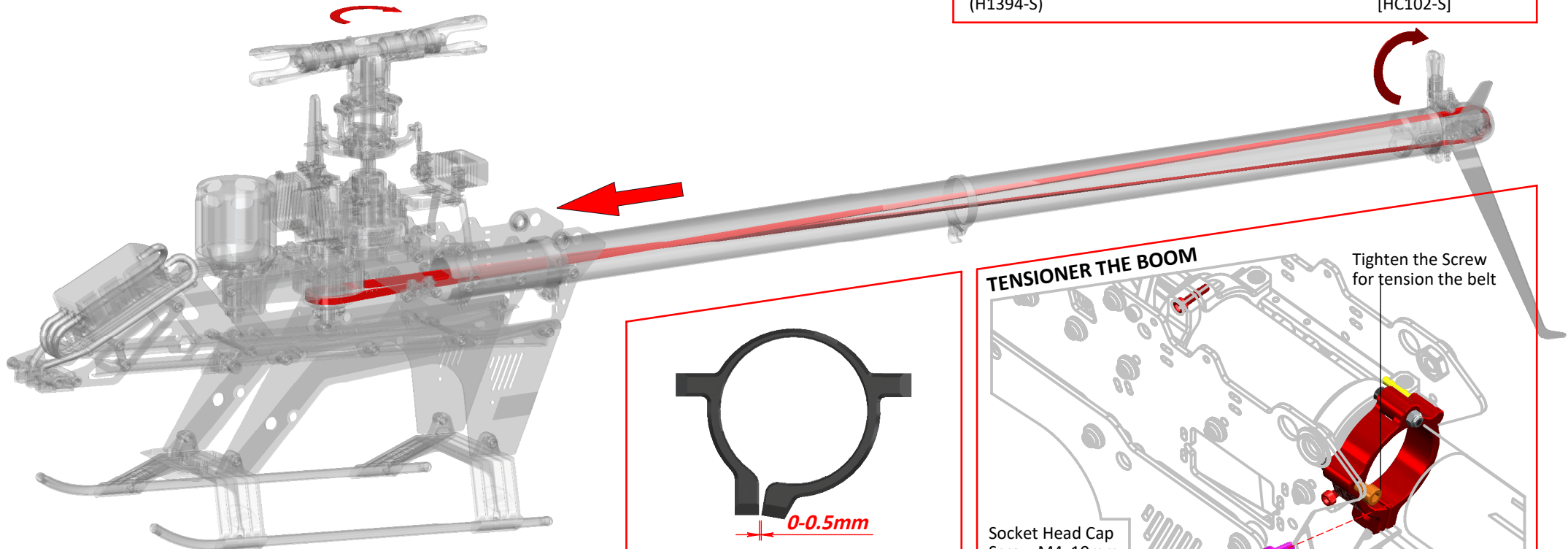
*Install the belt onto the tail front pulley, checking the direction of rotation.

*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** M3 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 H2058 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 **Red** M3 screws.



TOOL KIT ASSEMBLY

Socket Head Cap Screw
Shoulder M3x18mm
[HC079-S]

Set Screw M3x20
(HC150-S)

O-ring
[HC607]
(H1394-S)

Nut M3
(HC206-S)

Belt Tensioner 03
[H1394-03]
(H1394-S)

Belt Tensioner 02
[H1394-02]
(H1394-S)

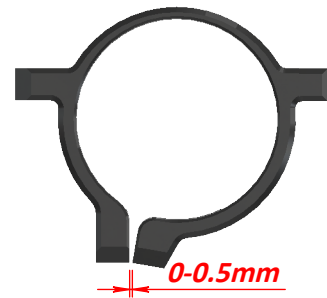
Belt Tensioner 01
[H1394-01]
(H1394-S)

Socket Head Cap
Screw M4x10mm
[HC102-S]

TENSIONER THE BOOM

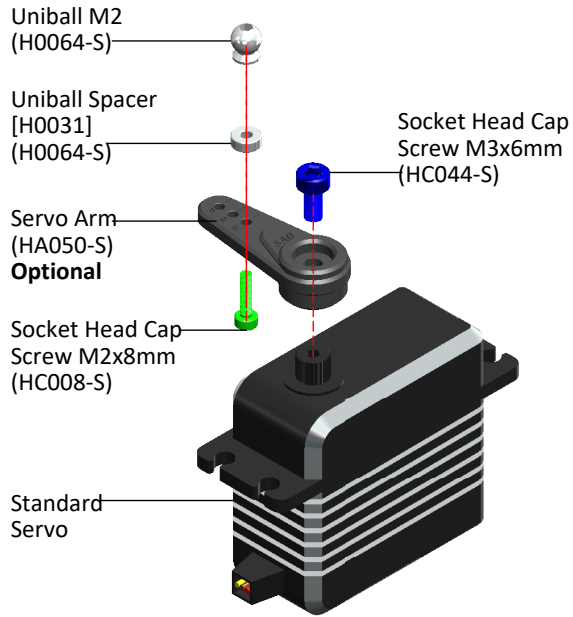
Tighten the Screw
for tension the belt

Socket Head Cap
Screw M4x10mm
[HC102-S]

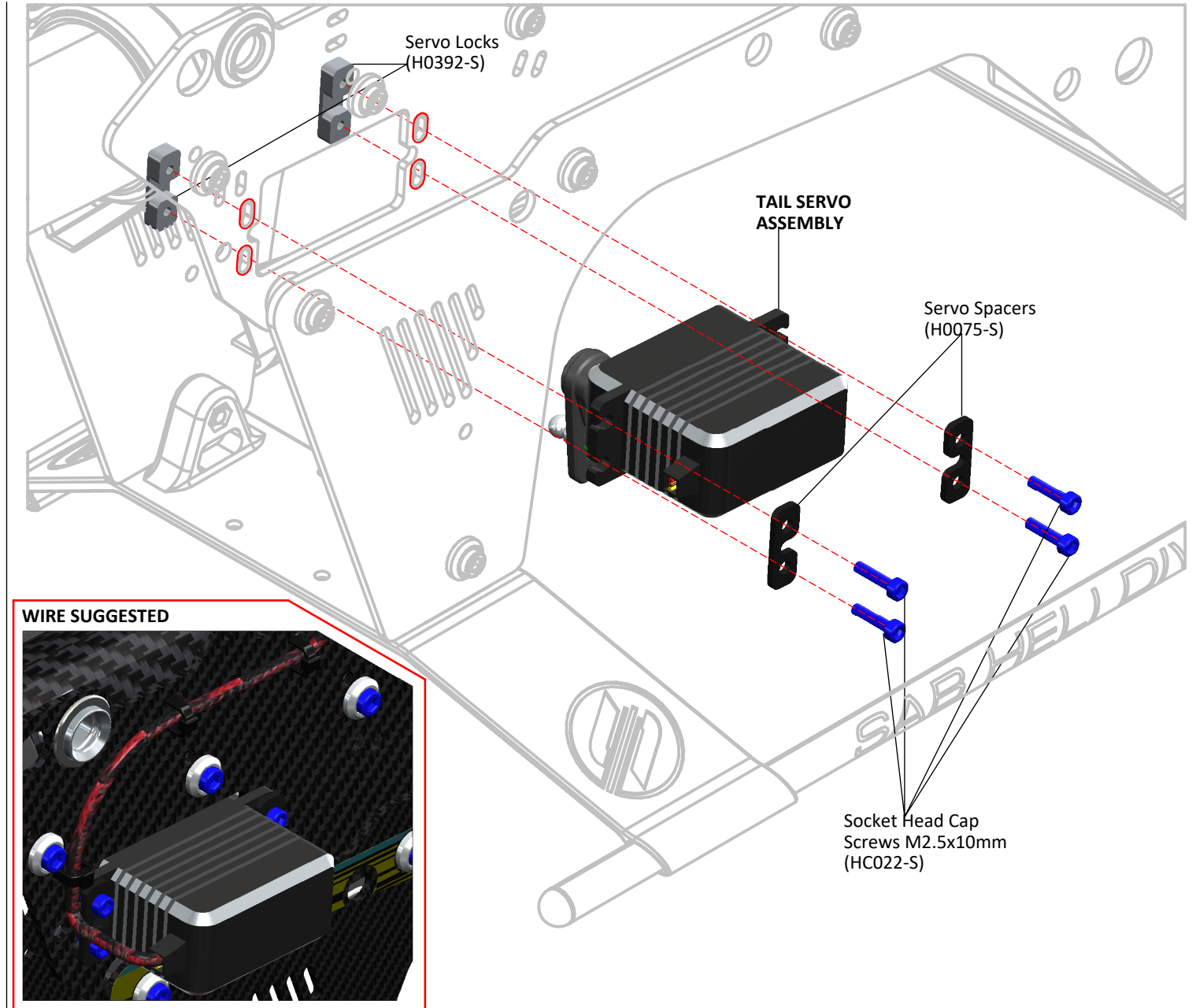
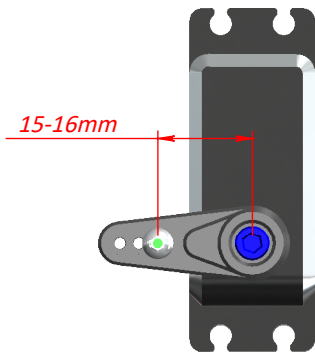


NOTE: Correct Tightening

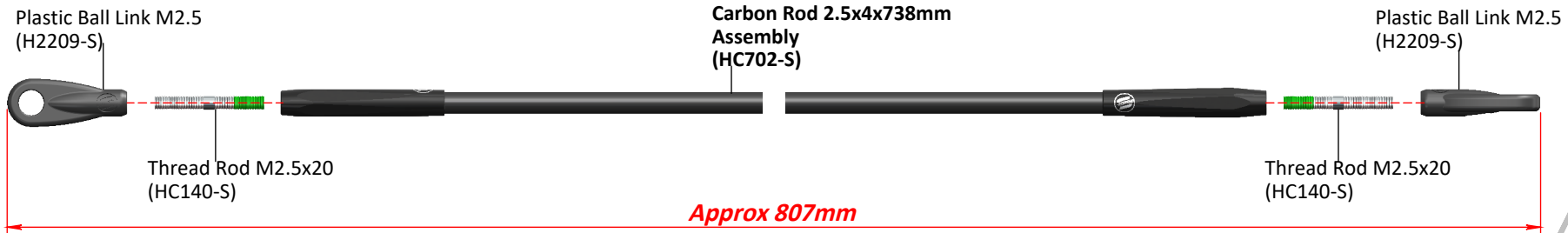
TAIL SERVO ASSEMBLY



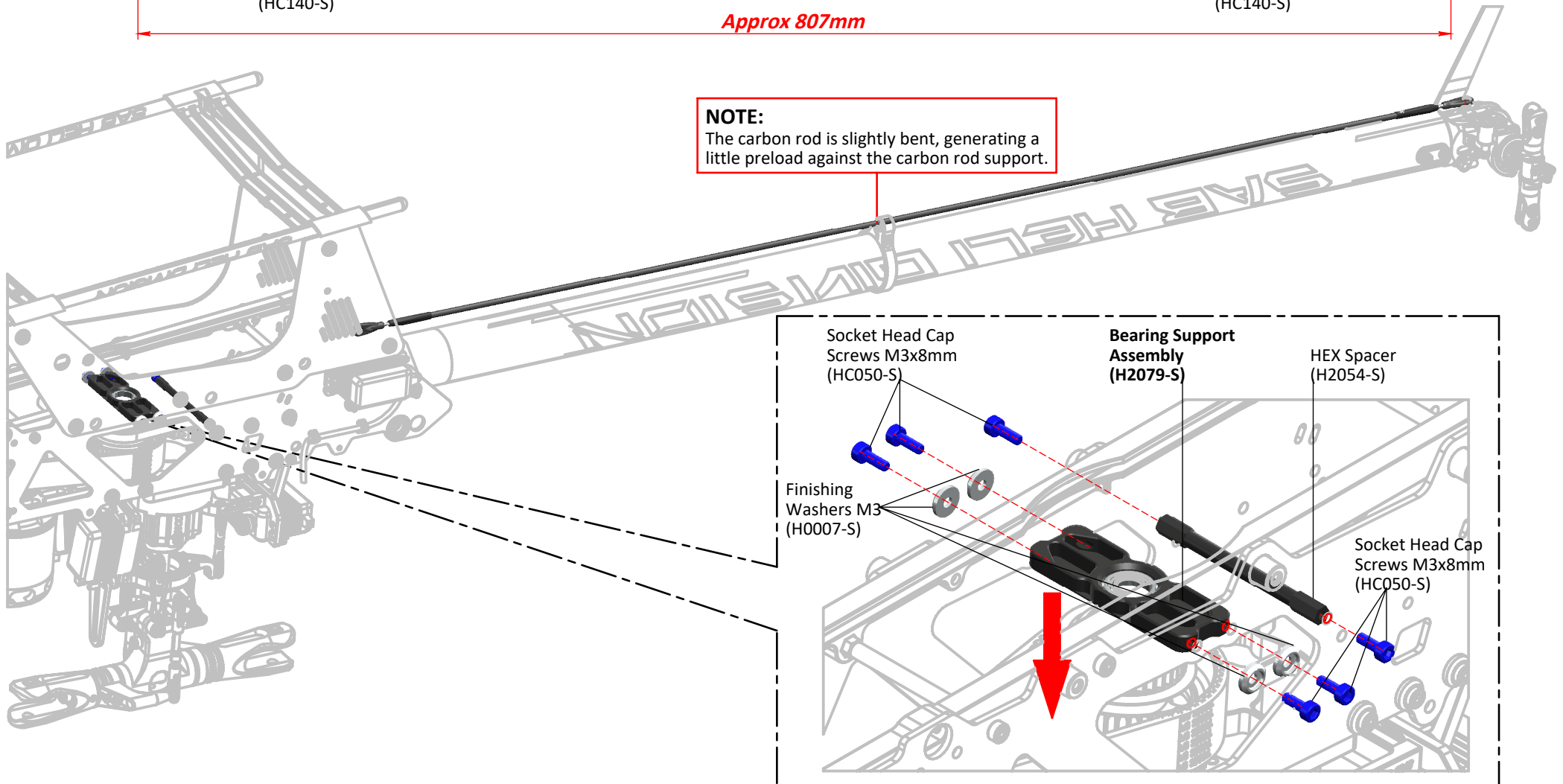
The distance between the axis and the ball must be around 15mm - 16mm



BOX 3, BAG FOR PAGE 29

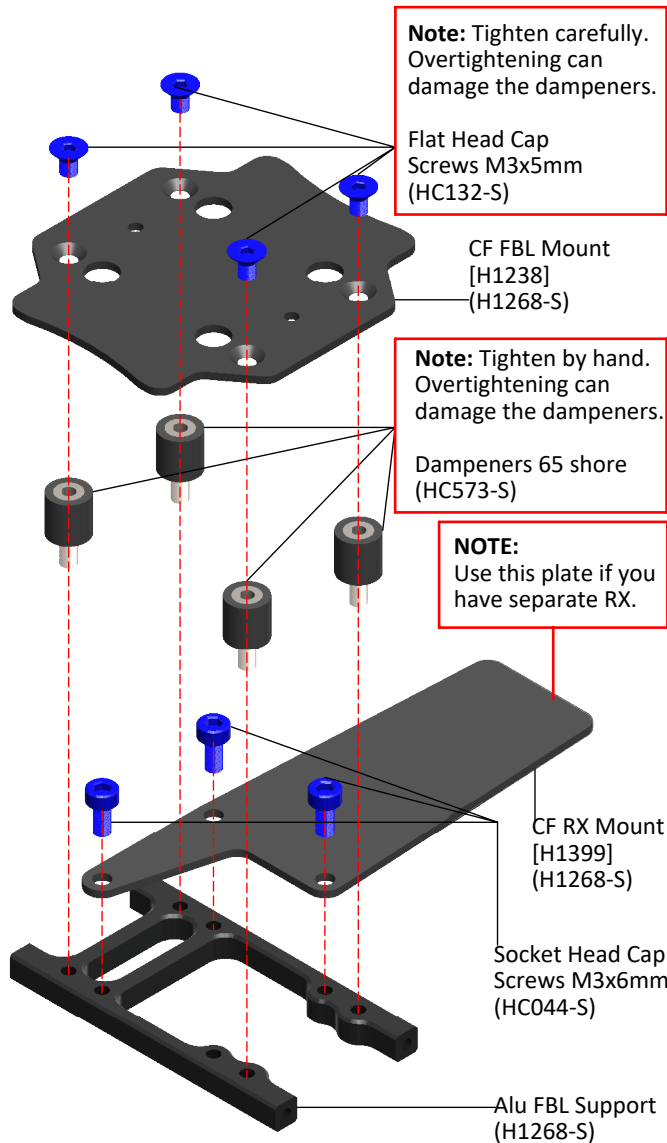


NOTE:
The carbon rod is slightly bent, generating a little preload against the carbon rod support.

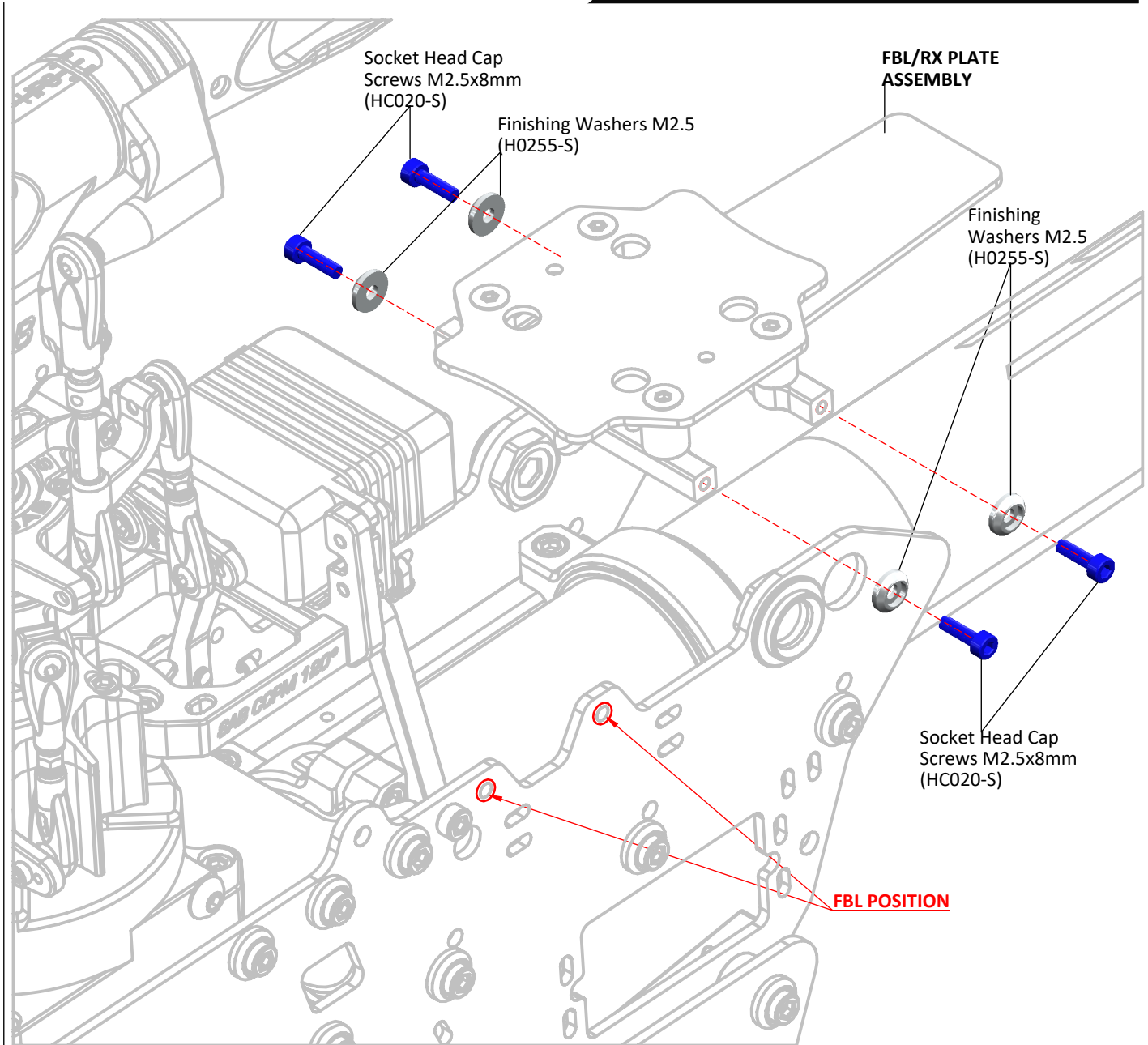


FBL/RX PLATE ASSEMBLY

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

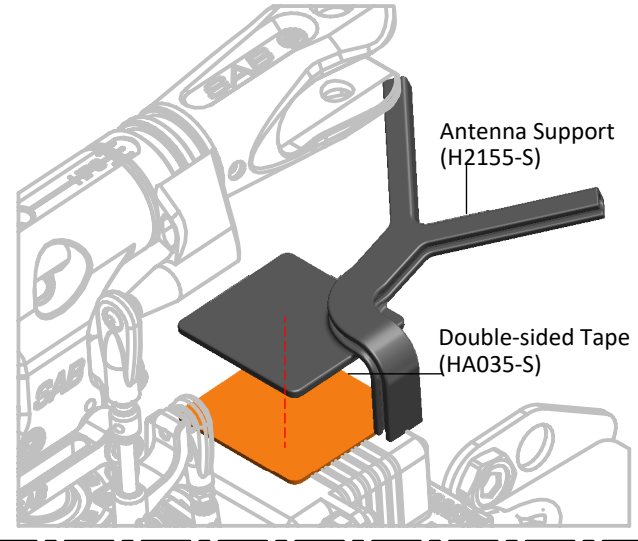


If you do not want to use the dampeners, you can setup a rigid FBL mount support using the screws and bushings contained in bag 30-2



BOX 1, BAG FOR PAGE 31

In bag 31-2, you can find a "3D Printed" antenna support. Use it as desired with your RX system.



Socket Head Cap Screw M3x8mm (HC050-S)

Note:
You can use a small piece of heat shrink tube to secure the antenna wires in place.

Socket Head Cap Screw M3x8mm (HC050-S)


Wire Support (H1798-S)

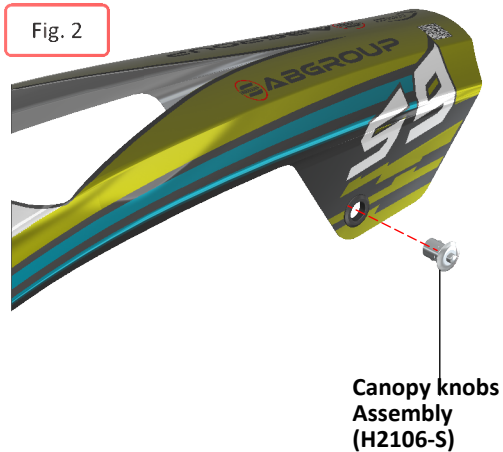
Zip-Tie

CANOPY

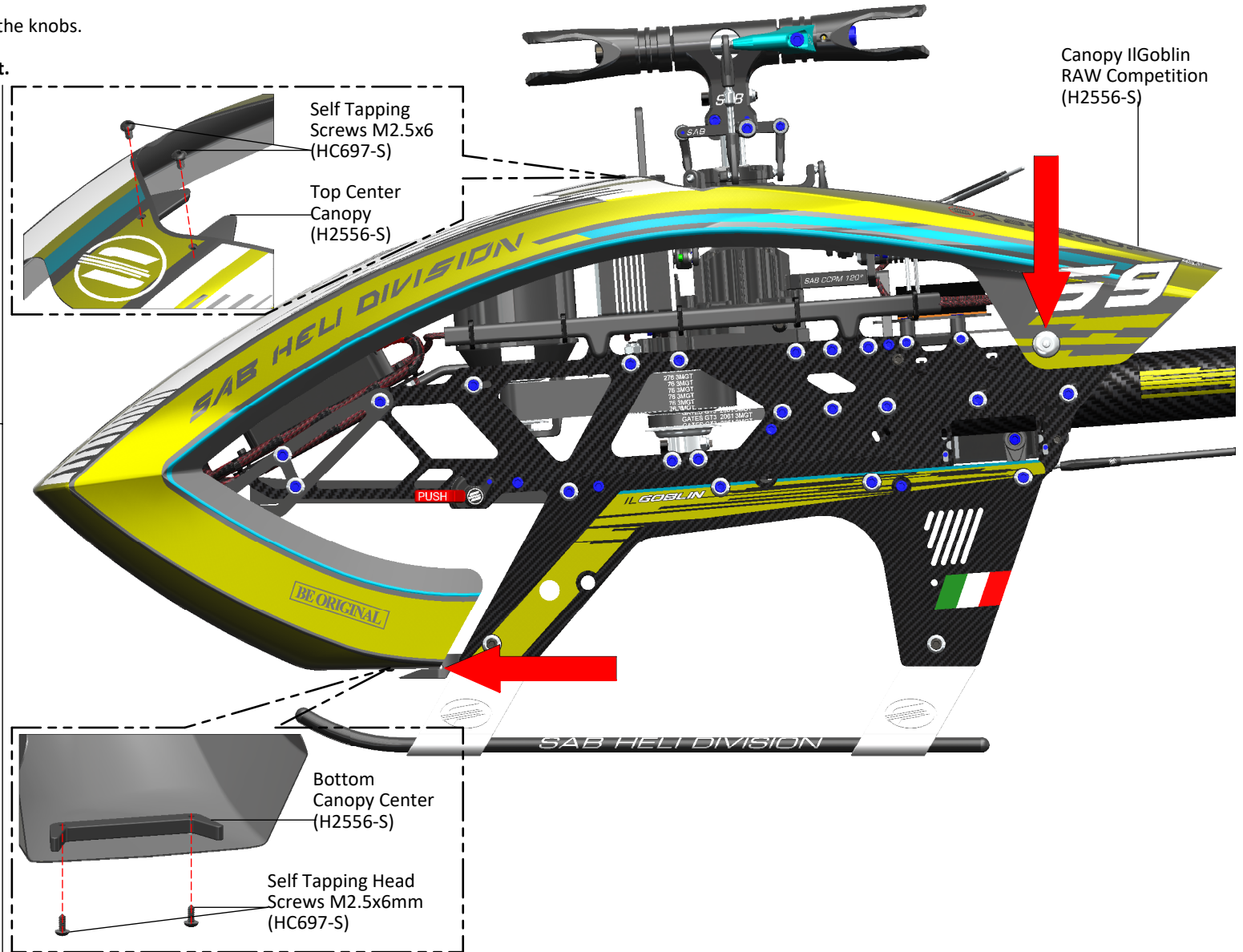
*Install Canopy grommets (Figure.1) and the two quick knobs (Figure.2).

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

 *Confirm the canopy is secure prior to each flight.

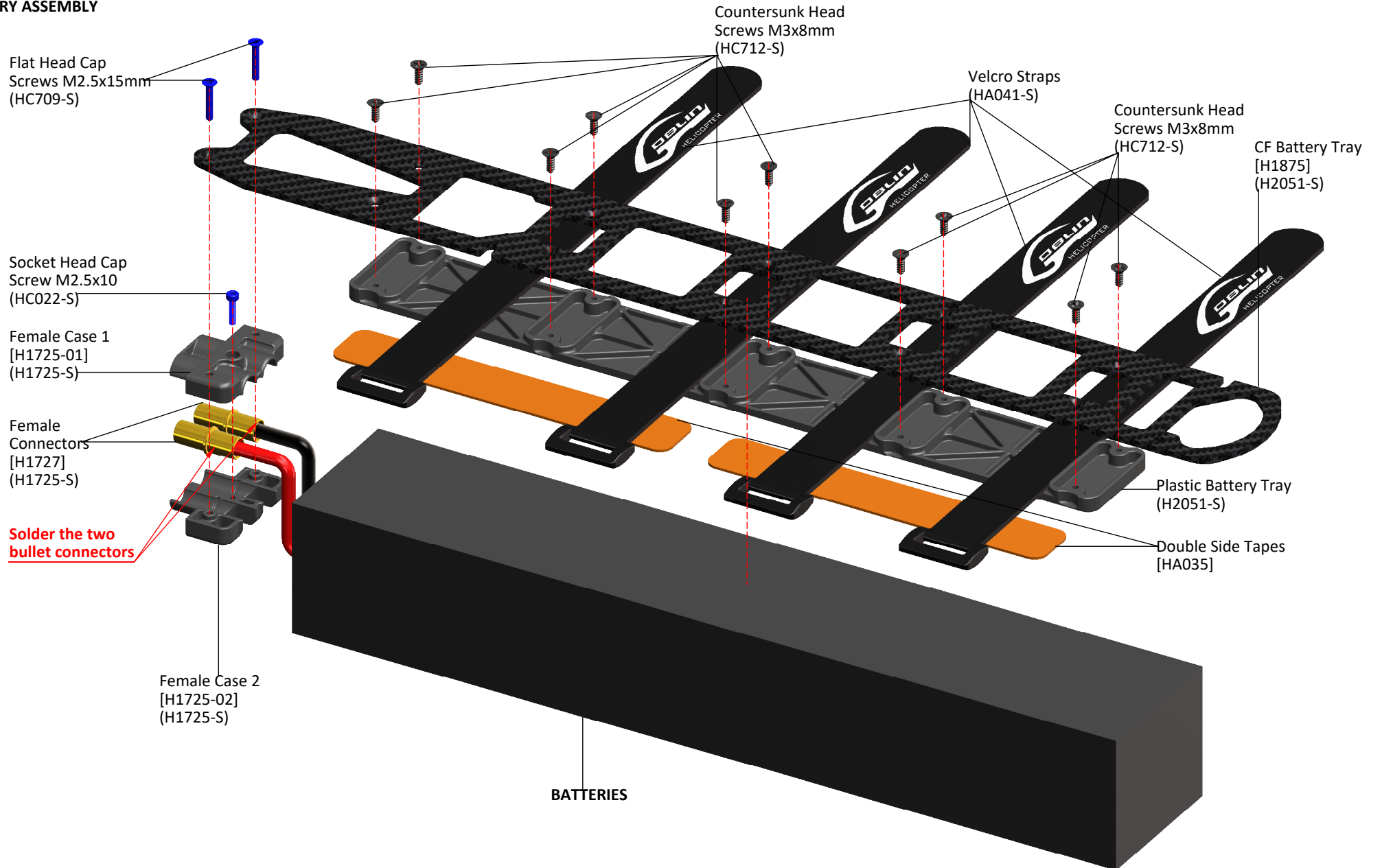


NOTE:
Put a very small drop of CA glue on the grommet and then insert the quick release canopy mount. This way when you remove the canopy, the mounts can not come off. Be careful not to block the quick release mechanism with glue.



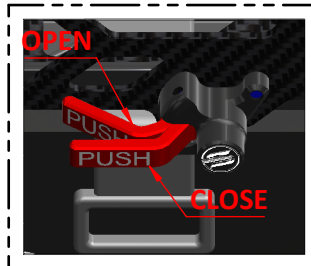
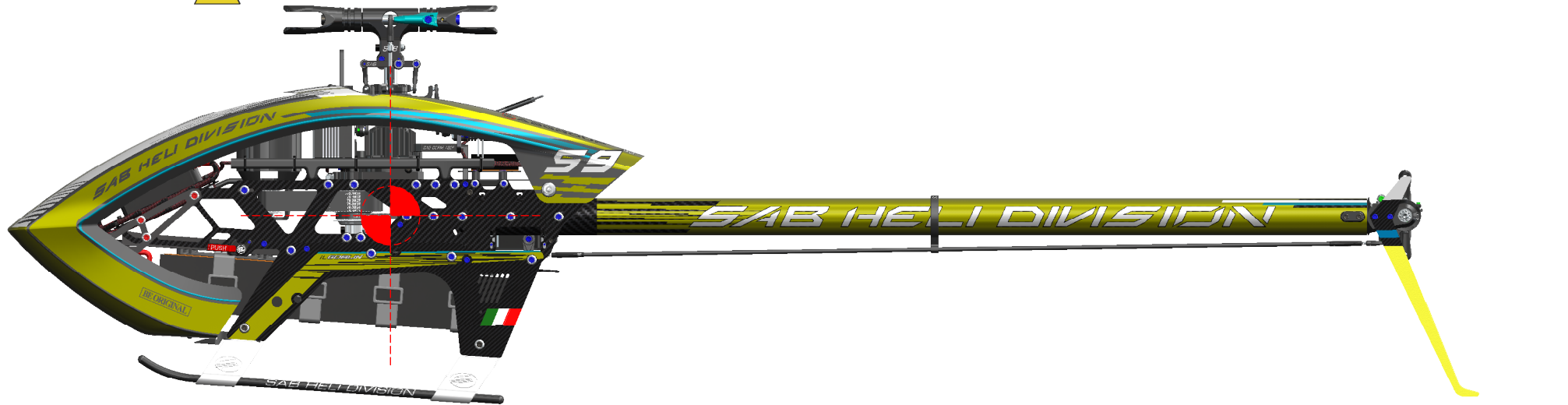
BOX 3, BAG FOR PAGE 33

BATTERY ASSEMBLY





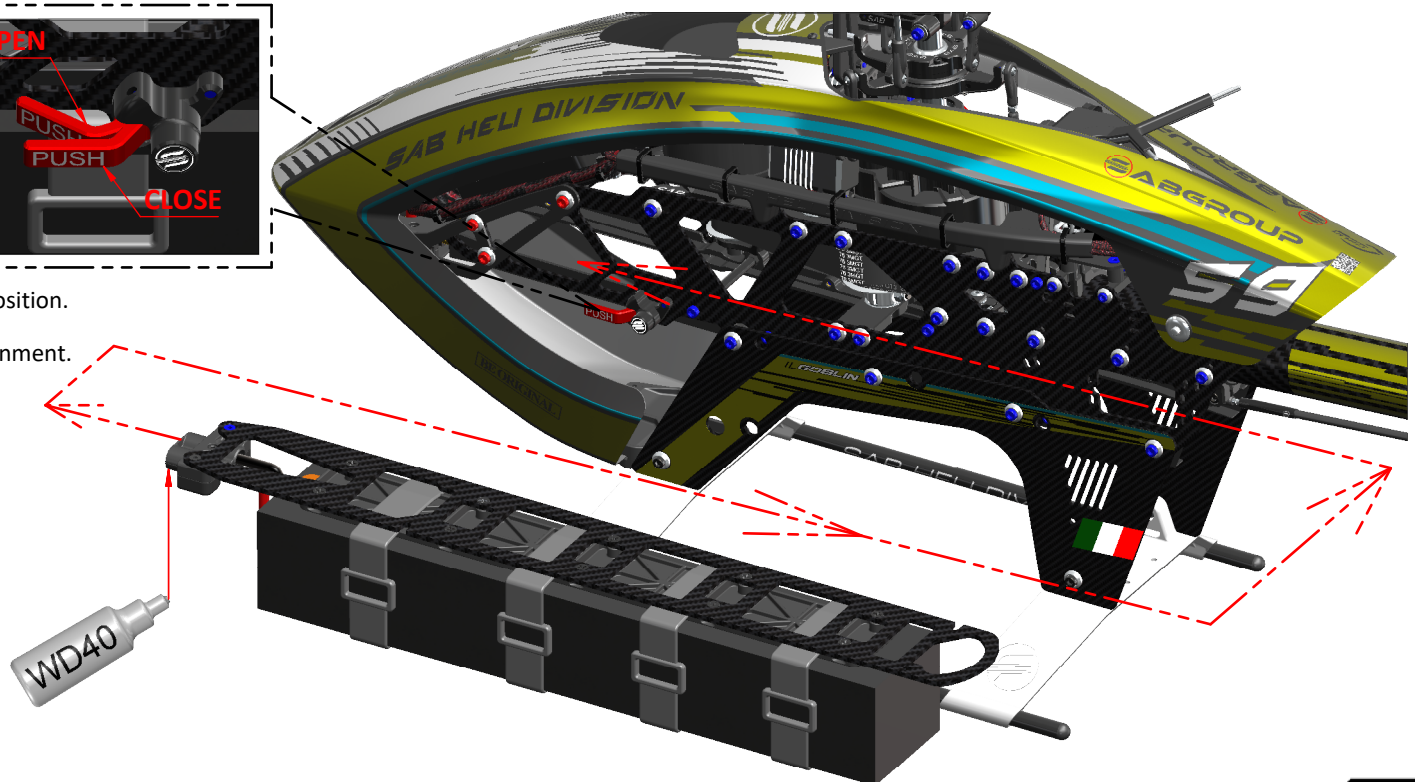
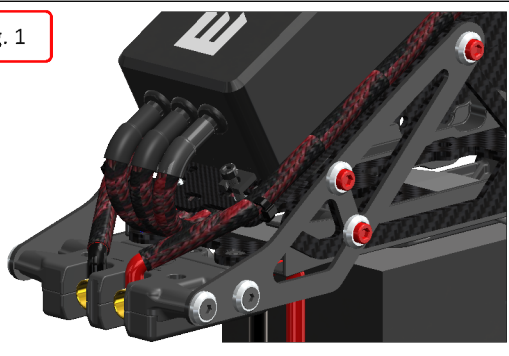
Before permanently mounting the batteries onto the battery tray, check the ideal position for the best center of gravity.



Ensure Correct Connector Alignment

- * Ensure the connector is correctly aligned before proceeding.
- * Place the battery tray with the connector into its designated position.
- * Unscrew the RED 3+3 M3 screws of the carbon support **Fig.1**.
- * Slightly move the components as needed to ensure proper alignment.
- * Tighten the screws securely.

Fig. 1



OPERATIONS BEFORE FLIGHT

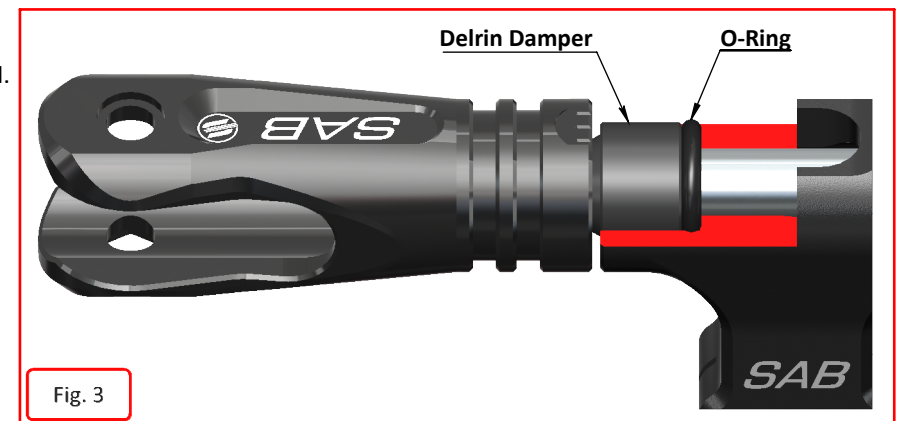
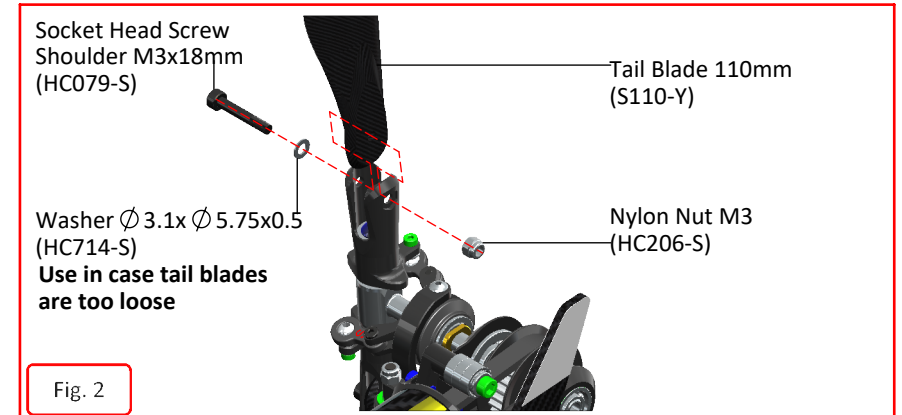
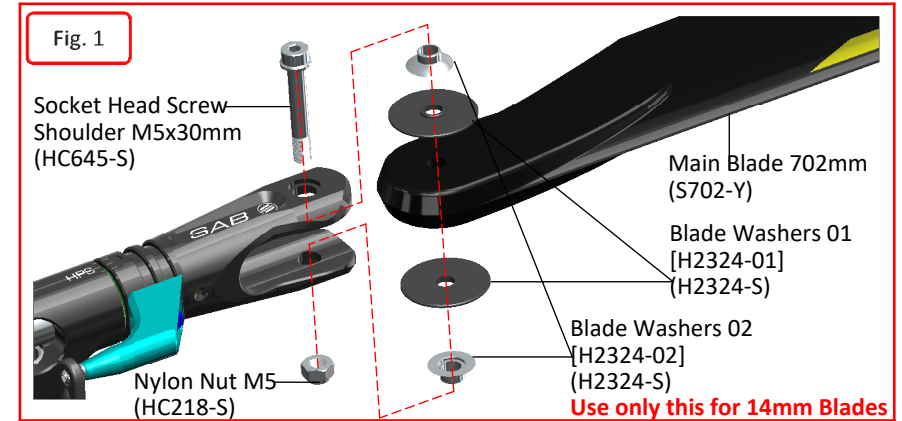
- *Set up the remote control and the flybarless system with utmost care.
 - *It is advisable to test the correct settings of the remote and flybarless system without main blades or tail blades fitted.
 - *Check that all wiring is isolated from the carbon/aluminum parts. It is good practice to protect them at the points where they are at most risk.
 - *Be sure of the gear ratio, verifying carefully the motor pulley in use. The forces acting on the mechanics increase enormously with increasing of rpm. Although the Goblin can fly at high rpm, for safety reasons we suggest to not exceed 2100rpm.
 - *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 GOBLIN Competition's main rotor is obviously optimized for the best response for 3D Competition. Fine tuning is not required. The standard damper has the correct tolerance for best response.

The O-ring only provides axial preload to eliminate any possible play.



MAINTENANCE

Take a look at the red parts.

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

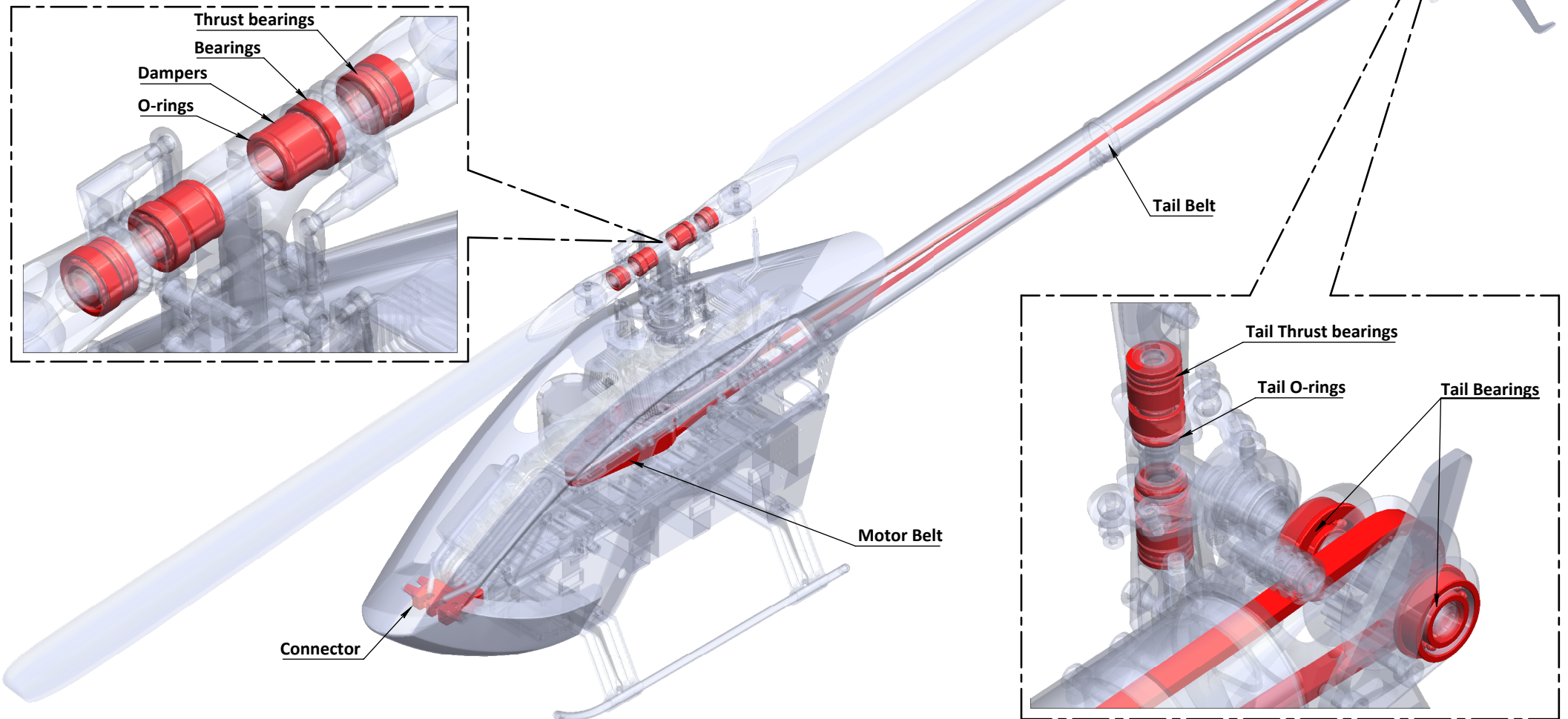
The lifespan of these components varies according to the type of flying.

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.



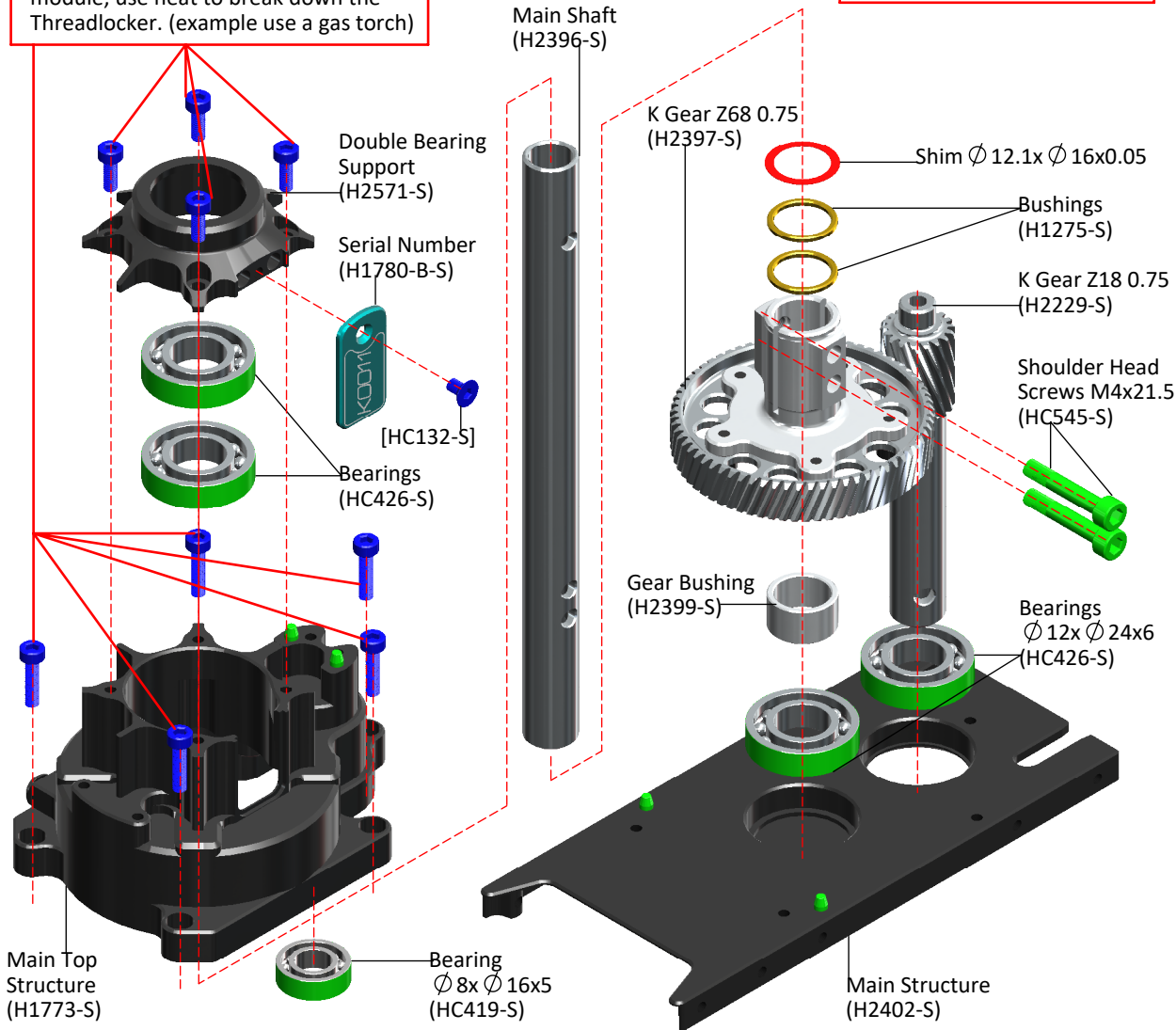
TRANSMISSION MODULE

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

Explode and Spare Parts

NOTE:

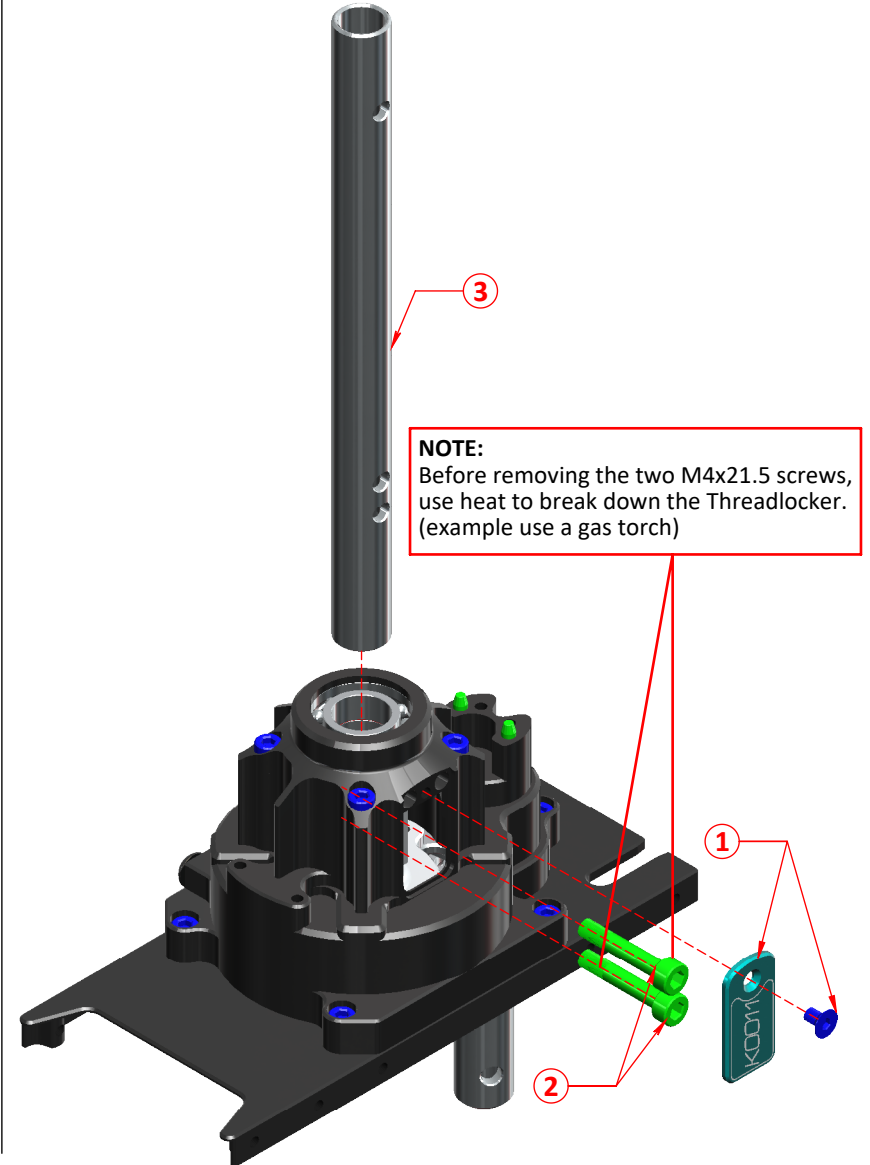
Before opening the transmission module, use heat to break down the Threadlocker. (example use a gas torch)



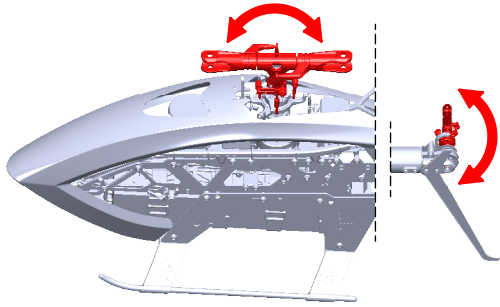
MAIN SHAFT REPLACEMENT

For replacing the main shaft:

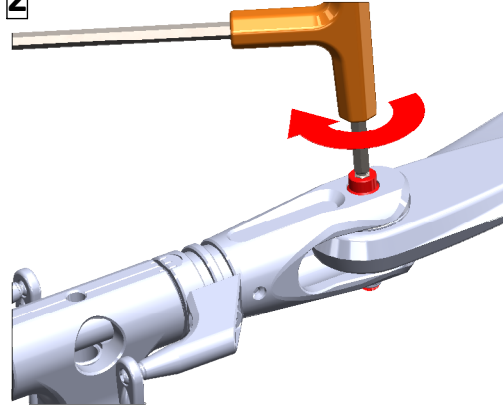
- *Remove the serial number plate.
- *Remove the two M4x21.5 screws.
- *Remove and replace the main shaft.
- *Screw in the two M4x21.5 screws, with high force and using retaining compound.



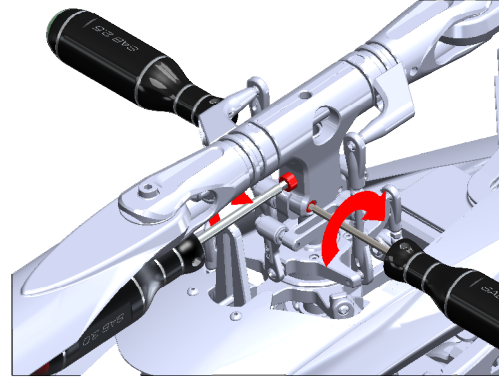
1 Check the dampening on the main and tail rotor to be the same as always.



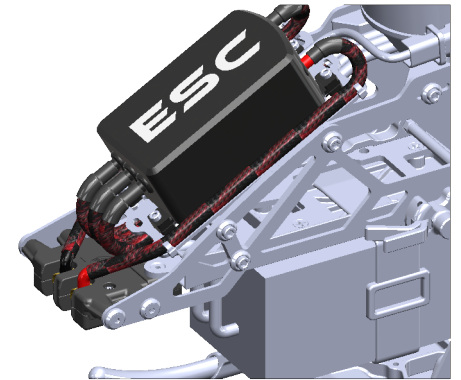
2 Tighten the main blades before flight.



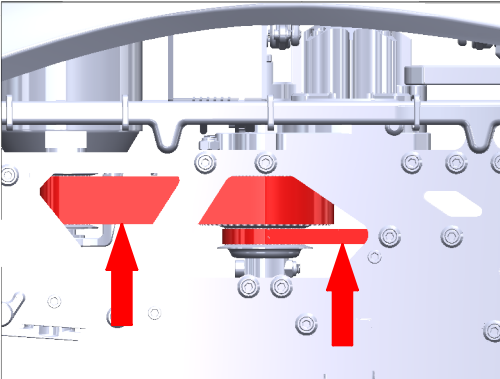
3 Check main hub screws (M4 and 2 M3) Ensure they are tight.



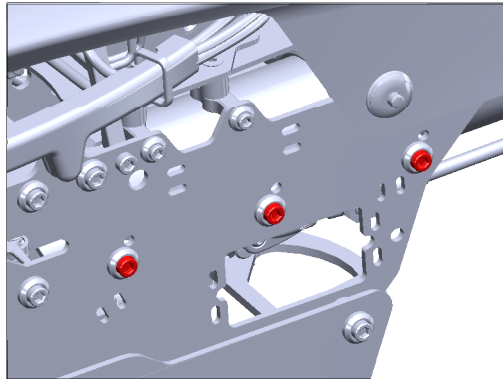
4 Check all power connectors (Good mechanical connection).



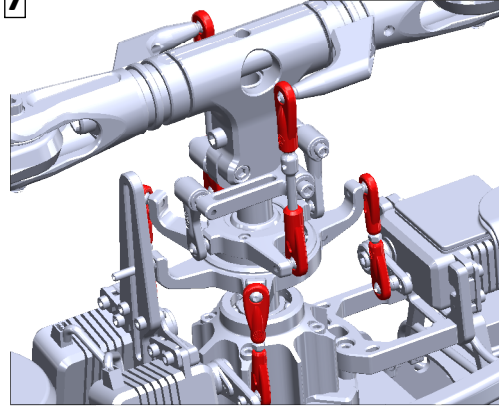
5 Check Tail & Motor belt tension. The tension has to be tight.



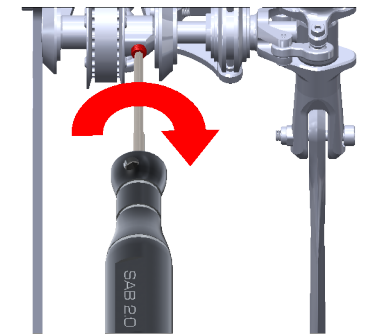
6 Regularly check these 6 M3 screws. Ensure they are always fully tightened.



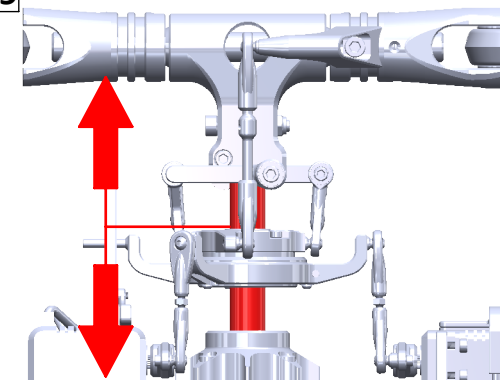
7 Check the Main Linkages & Servo Linkages



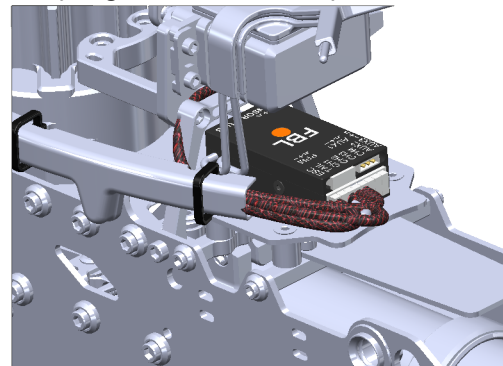
8 Check tail pulley set screws: Ensure they are tight. (It is suggested use a bit of retaining compound.)



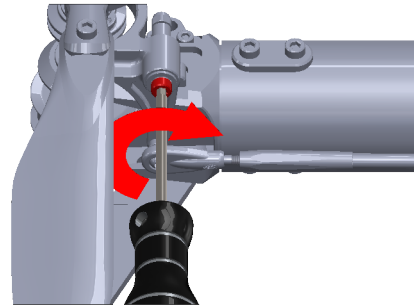
9 Check for vertical play of the main shaft.



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

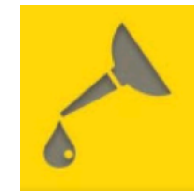





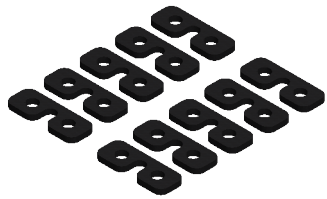


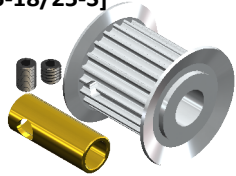






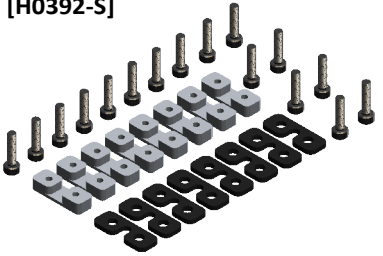






11 Check the M3 bell crank: Belt crank movement must be smooth and the screw locked. (It is suggested use a bit of retaining compound.)

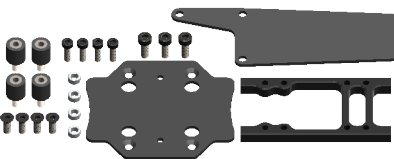


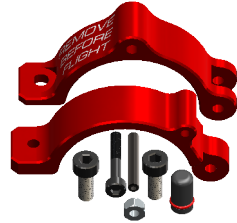


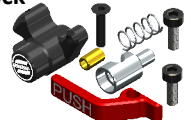

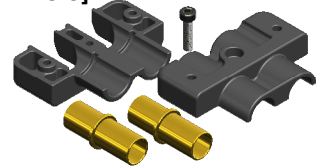
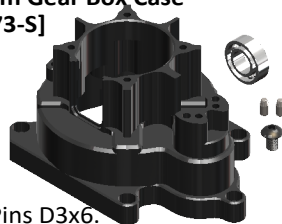
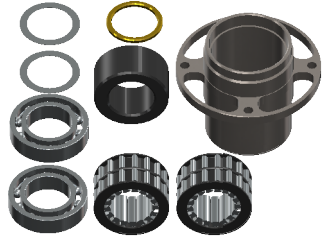
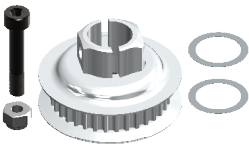


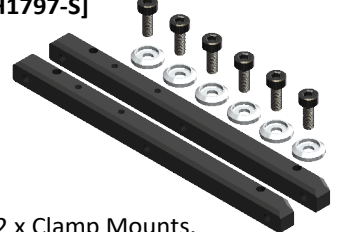
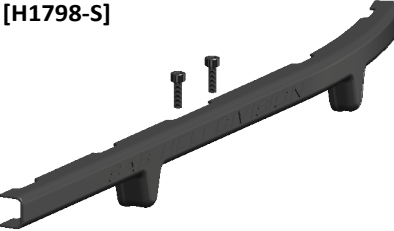

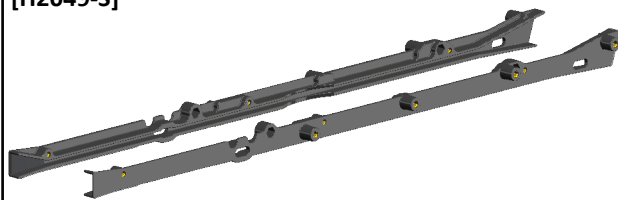
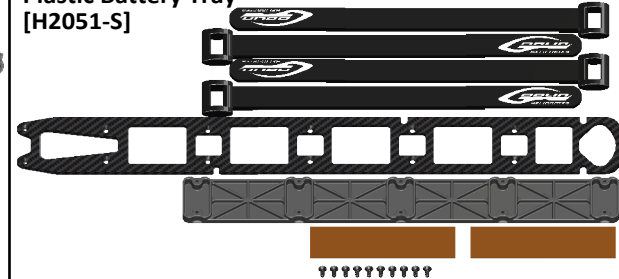


12 Be sure the follow parts are properly lubricated

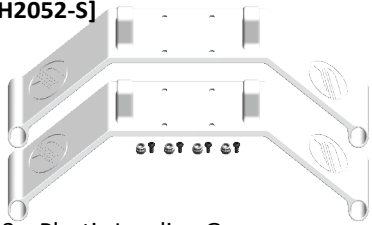
- *Main shaft/swashplate
- *Tail slider/tail shaft
- *Carbon rod/carbon rod support
- *All thrust bearings
- *All plastic balls connections



<p>Finishing Washer M3 [H0007-S]</p>  <p>- 10 x Finishing Washers M3.</p>	<p>Uniball M2 [H0064-S]</p>  <p>- 5 x Uniballs M2. - 5 x Uniball Spacers. - 5 x Socket Head Cap Screws M2x6. - 5 x Socket Head Cap Screws M2x8.</p>	<p>Uniball M3 [H0065-S]</p>  <p>- 5 x Uniballs M3.</p>	<p>Servo Spacer [H0075-S]</p>  <p>- 10 x Servo Spacers.</p>	<p>Main Spindle [H0079-S]</p>  <p>- 1 x Main Spindle. - 2 x Washers $\varnothing 6,1 \times \varnothing 14 \times 1,8 \text{mm}$. - 2 x Button Head Cap Screws M6x10.</p>
<p>3rd Bearing Motor Mount [H0143-S]</p>  <p>- 1 x 3rd Bearing Motor Mount. - 1 x F.Bearing $\varnothing 6 \times \varnothing 13 \times 5$. - 2 x Socket Head Cap Screws M3x8.</p>	<p>Motor Pulley [H0175-18/25-S]</p>  <p>- 1 x Motor Pulley Z18/25. - 1 x Motor Bushing. - 1 x Set Screw M4x4mm. - 1 x Set Screw M4x6mm.</p>	<p>Plastic Radius Arm [H0205-S]</p>  <p>- 2 x Plastic Radius Arms.</p>	<p>Finishing Washer M2,5 [H0255-S]</p>  <p>- 10 x Finishing Washers M2,5.</p>	<p>Tail Pitch Slider Link [H0261-S]</p>  <p>- 2 x Tail Pitch Slider Links. - 2 x Bushings $\varnothing 2 \times \varnothing 3 \times 3 \text{mm}$. - 2 x Socket Head Cap Screws M2x6.</p>
<p>Tail Pin [H0264-S]</p>  <p>- 2 x Tail Pins.</p>	<p>Tail Spindle [H0329-S]</p>  <p>- 1 x Tail Spindle. - 2 x Button Head Cap Screws M4x6.</p>	<p>Spacer Set For Tail Rotor [H0330-S]</p>  <p>- 2 x Tail O-rings. - 2 x Washers $\varnothing 5 \times \varnothing 8,9 \times 0,75 \text{mm}$. - 2 x Washers $\varnothing 7,5 \times \varnothing 10 \times 0,5 \text{mm}$.</p>	<p>Servo Lock [H0392-S]</p>  <p>- 1 x Servo Lock SET.</p>	<p>Bell Crank Lever [H0406-S]</p>  <p>- 1 x Bell Crank Lever SET.</p>
<p>Linkage Rod M3x50 [H0417-S]</p>  <p>- 2 x Linkage Rods M3x50mm. - 4 x Plastic Ball Linkages.</p>	<p>Reference Pin [H1048-S]</p>  <p>- 1 x Reference Pin.</p>	<p>Bell Crank Support [H1095-S]</p>  <p>- 1 x Bell Crank Support. - 2 x Socket Head Cap Screws M2,5x8.</p>	<p>Carbon Rod Support [H1197-S]</p>  <p>- 1 x Carbon Rod Support. - 1 x Socket Head Cap Screws M2,5x12.</p>	<p>Landing Gear Rod D8x335mm [H1242-S]</p>  <p>- 1 x Landing Gear Rod SET.</p>

<p>FBL/RX Plate Support [H1268-S]</p>  <p>- 1 x FBL/RX Plate Support SET.</p>	<p>Brass Bushing ϕ 12,1x ϕ 15x1,4mm [H1275-S]</p>  <p>- 4 x Bushings ϕ 12,1x ϕ 15x1,4mm.</p>	<p>Front Boom Lock [H1352-S]</p>  <p>- 1 x Front Boom Block. - 2 x Socket Head Cap Screws M3x10. - 1 x Socket Head Cap Screw M3x12. - 1 x Nylon Nut M3.</p>	<p>Belt Tensioner D35 [H1394-S]</p>  <p>- 1 x Belt Tensioner D35 SET.</p>	<p>Canopy Front Lock [H1439-S]</p>  <p>- 1 x Canopy Front Lock. - 4 x Self Tapping Screws M3x10.</p>
<p>ESC Support [H1718-S]</p>  <p>- 1 x ESC Plate. - 2 x ESC Frame Spacers. - 4 x Socket Head Cap Screws M3x6. - 4 x Flat Head Cap Screws M3x5.</p>	<p>Battery Lock [H1721-S]</p>  <p>- 1 x Battery Lock Base. - 1 x Battery Lock Level. - 1 x Battery Lock Pin. - 1 x Battery Lock Spring. - 1 x Bushing ϕ 2,5x ϕ 4x6,3. - 1 x Flat Head Cap Screw M2,5x12. - 2 x Socket Head Cap Screws M3x6.</p>	<p>Male Connector [H1724-S]</p>  <p>- 1 x Male Connector Case 01. - 1 x Male Connector Case 02. - 2 x Male Connectors. - 2 x Socket Head Cap Screws M2,5x10mm.</p>	<p>Female Connector [H1725-S]</p>  <p>- 1 x Male Connector Case 01. - 1 x Male Connector Case 02. - 2 x Male Connectors. - 1 x Socket Head Cap Screw M2,5x10.</p>	<p>Bottom Gear Box Case [H1773-S]</p>  <p>- 2 x Pins D3x6. - 1 x Bottom Gear Box Case. - 1 x Button Head Cap Screw M4x6. - 1 x Ball Bearing ϕ 8x ϕ 16x5.</p>
<p>Double OWB Mount SET [H1777-G-S]</p>  <p>- 1 x Double OWB Mount SET.</p>	<p>Front Tail Pulley Z34 [H1778-S]</p>  <p>- 1 x Front Tail Pulley Z34. - 1 x Nylon Nut M4. - 2 x Shims ϕ 12,1x ϕ 16x0,1. - 1 x Shouldered Cap Screw M4x21,5.</p>	<p>Serial Number [H1780-B-S]</p>  <p>- 1 x Serial Number. - 1 x Flat Head Cap Screw M3x5.</p>	<p>Main Blade Grip [H1790-S]</p>  <p>- 1 x Main Blade Grip SET.</p>	<p>Clamp Mount 700 [H1797-S]</p>  <p>- 2 x Clamp Mounts. - 6 x Finishing Washers M3. - 6 x Socket Head Cap Screws M3x10.</p>
<p>Plastic Wire Cover [H1798-S]</p>  <p>- 1 x Plastic Wire Cover. - 2 x Socket Head Cap Screws M3x8.</p>	<p>Tail Blade Grip [H1893-S]</p>  <p>- 2 x Tail Blade Grips. - 2 x Washers ϕ 7,5x ϕ 10x0,5. - 2 x Button Head Cap Screws M4x6. - 4 x Ball Bearings ϕ 5x ϕ 10x4. - 2 x Thrust Bearings ϕ 5x ϕ 10x4.</p>	<p>Battery Guide 700 [H2049-S]</p>  <p>- 1 x Battery Guide SX 700. - 1 x Battery Guide DX 700.</p>	<p>Plastic Battery Tray [H2051-S]</p>  <p>- 1 x Plastic Battery Tray SET.</p>	

Plastic Landing Gear [H2052-S]



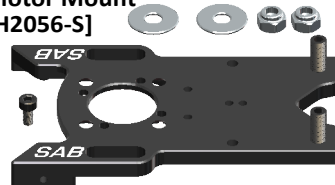
- 2 x Plastic Landing Gears.
- 4 x Nylon Nuts M3.
- 4 x Self Tapping Screws M2,2x6.

HEX 5 Spacer M3x60 [H2054-S]



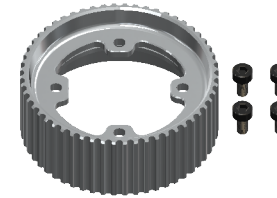
- 2 x HEX 5 Spacers M3x60.

Motor Mount [H2056-S]



- 1 x Motor Mount 700.
- 1 x Socket Head Cap Screw M3x6.
- 2 x Washers $\varnothing 5,3 \times \varnothing 15 \times 1$.
- 2 x Nylon Nuts M5.
- 2 x Set Screws M5x16.

Main Pulley [H2057-S]



- 1 x Main Pulley Z56.
- 4 x Socket Head Cap Screws M3x4.

Rear Boom Lock [H2058-S]



- 1 x Rear Boom Lock.
- 1 x Nylon Nut M3.
- 1 x Rear Boom Lock Rubber.
- 2 x Socket Head Cap Screws M3x10.
- 1 x Socket Head Cap Screw M3x12.

Carbon Fiber Tail Fin [H2066-S]



- 1 x Carbon Fiber Tail Fin.
- 2 x Socket Head Cap Screws M3x8.
- 1 x Orange Sticker.
- 1 x Yellow Sticker.

3rd Bearing Support [H2079-S]



- 1 x 3rd Bearing Support.
- 4 x Finishing Washers M3.
- 4 x Socket Head Cap Screws M3x8.
- 1 x Ball Bearing $\varnothing 12 \times \varnothing 21 \times 5$.

Tail Tensioner Base [H2084-S]



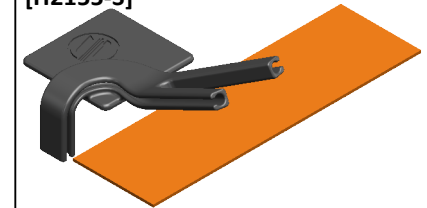
- 1 x Tail Tensioner Base.
- 2 x Socket Head Cap Screws M2,5x6.
- 1 x Socket Head Cap Screw M3x8.
- 1 x Washer $\varnothing 3 \times \varnothing 7 \times 1$.
- 3 x Ball Bearings $\varnothing 5 \times \varnothing 9 \times 3$.

Canopy Quick Release [H2106-S]



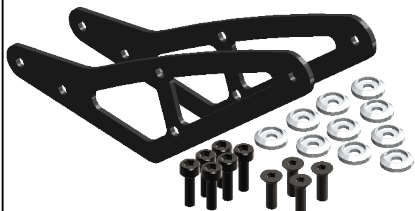
- 2 x Canopy Quick Releases.

SLS Antenna 700 [H2155-S]



- 1 x SLS Antenna 700.
- 1 x Double-sided Tape.

Connector Plate [H2162-S]



- 2 x Connector Plates SET.

Plastic Ball Linkage M2.5 [H2209-S]



- 10 x Plastic Ball Linkages M2,5.

Plastic Ball Linkage M3 [H2210-S]



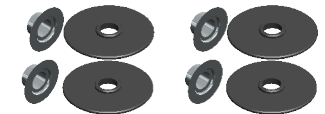
- 10 x Plastic Ball Linkages M3.

Pinion Z18xD12 [H2229-S]



- 1 x Pinion Z18xD12.

Main Blade Washer [H2324-S]



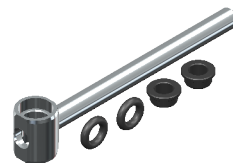
- 4 x Titanium Blade Washers 01.
- 4 x Delrin Blade Washers 02.

Main Hub D12 [H2383-S]



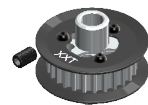
- 1 x Main Hub D12.
- 1 x Socket Head Cap Screw M3x12.
- 1 x Nylon Nut M4.
- 1 x Socket Shoulder Screw M4x24.

Tail Shaft D6 [H2386-S]



- 1 x Tail Shaft D6.
- 2 x O-rings Shore 70.
- 2 x Delrin Bushings.

Tail Pulley Z22/Z26 [H2390-22/26-S]



- 1 x Tail Pulley Z23/Z26.
- 2 x Tail Pulley Z23/Z26 WS.
- 6 x Button Head Cap Screws M2x4.
- 1 x Set Screw M4x6mm.

Main Shaft D12 [H2396-S]


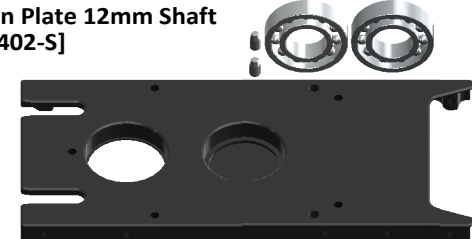








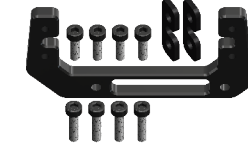
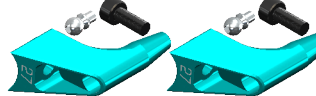


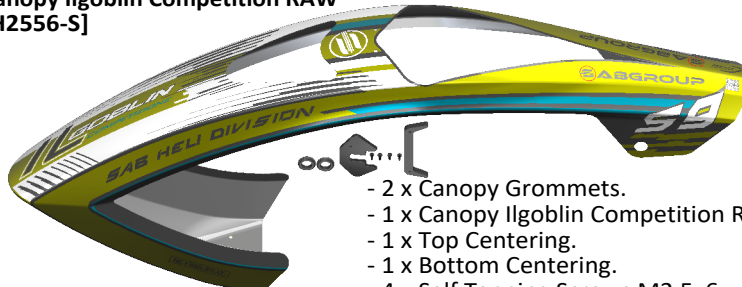



- 1 x Main Shaft D12.
- 2 x Shims $\varnothing 12,1 \times \varnothing 16 \times 0,1$.
- 2 x Shoulder Cap Screws M4x21,5.

Main Gear Z68 [H2397-S]



- 1 x Main Gear Z68.
- 1 x Main Gear Mount D12.
- 5 x Socket Head Cap Screws M3x6.
- 2 x Shoulder Cap Screws M4x21,5.

<p>Gear Bushing [H2399-S]</p>  <ul style="list-style-type: none"> - 2 x Bushings ϕ 12,2x ϕ 15,2x8,5. - 2 x Shims ϕ 12,1x ϕ 16x0,1. 	<p>Main Plate 12mm Shaft [H2402-S]</p>  <ul style="list-style-type: none"> - 2 x Pins 3x6. - 1 x Main Plate 12mm Shaft. - 2 x Ball Bearings ϕ 12x ϕ 24x6. 	<p>Frame Bushing ϕ 8.25x ϕ 10x6 [H2411-S]</p>  <ul style="list-style-type: none"> - 8 x Bushings ϕ 8,25x ϕ 10x6. 	<p>Lower Main Frame [H2434-S]</p>  <ul style="list-style-type: none"> - 1 x Lower Main Frame. 	
<p>Back Servo Mount Support [H2462-S]</p>  <ul style="list-style-type: none"> - 1 x Back Servo Mount Support. - 2 x Socket Head Cap Screws M3x8. 	<p>Servo Spacer 2mm [H2463-S]</p>  <ul style="list-style-type: none"> - 6 x Servo Spacers 2mm. 	<p>Tail Pitch Slider [H2525-S]</p>  <ul style="list-style-type: none"> - 1 x Tail Pitch Slider ASM. 	<p>Upper Main Frame [H2544-S]</p>  <ul style="list-style-type: none"> - 1 x Upper Main Frame. 	
<p>Fixed Tensioner [H2545-S]</p>  <ul style="list-style-type: none"> - 1 x Spring Tensioner SET. 	<p>Spring Tensioner [H2546-S]</p>  <ul style="list-style-type: none"> - 1 x Spring Tensioner SET. 	<p>Back Servo Mount 4mm [H2547-S]</p>  <ul style="list-style-type: none"> - 1 x Back Servo Mount 4mm. - 2 x Servo Spacers. - 4 x Socket Head Screws M2,5x8. - 4 x Socket Head Screws M2,5x10. 	<p>Main Blade Grip 27mm [H2548-S]</p>  <ul style="list-style-type: none"> - 2 x Blade Grip Arms 27. - 2 x Uniballs M3. - 2 x Socket Head Cap Screws M4x10. 	<p>Boom D35 Flanged Bracket [H2549-S]</p>  <ul style="list-style-type: none"> - 2 x Boom D35 Flanged Brackets. - 4 x Socket Head Cap Screws M3x8.
<p>Rear Servo Rigid [H2554-S]</p>  <ul style="list-style-type: none"> - 1 x Rear Servo Rigid. - 2 x Socket Head Screws M2,5x12. - 2 x Socket Head Cap Screws M3x8. 	<p>Canopy Ilgoblin Competition RAW [H2556-S]</p>  <ul style="list-style-type: none"> - 2 x Canopy Grommets. - 1 x Canopy Ilgoblin Competition RAW. - 1 x Top Centering. - 1 x Bottom Centering. - 4 x Self Tapping Screws M2,5x6. 		<p>Tube Carbon Boom Competition RAW [H2557-S]</p>  <ul style="list-style-type: none"> - 1 x Tube Carbon Boom Competition RAW. 	

Double Bearing Support
[H2571-S]



- 1 x Double Bearing Support.
- 4 x Socket Head Cap Screws M3x8.
- 2 x Bearings $\varnothing 12x\varnothing 24x6$.

Tail Case D35-S6 Big Flanged
[H2572-S]



- 1 x Tail Case D35-S6 Big Flanged.
- 1 x Flanged Bearing $\varnothing 6x\varnothing 13x5$.
- 1 x Flanged Bearing $\varnothing 6x\varnothing 17x6$.

Swashplate System 27-12
[H2573-S]



- 1 x Swashplate System 27-12 SET.

Front Servo Mount 27
[H2575-S]



- 1 x Front Servo Mount 27.
- 1 x Servo Align Tool.
- 2 x Socket Head Cap Screws M3x8.

Delrin Anti-rotation Guide
[H2576-S]



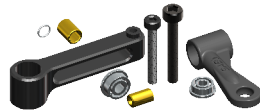
- 1 x Delrin Anti-rotation Guide.
- 2 x Socket Head Cap Screws M2,5x6.

Servo Linkage M2.5x26mm
[H2577-S]



- 3 x Servo Linkages M2.5x26mm.
- 6 x Plastic Ball Linkages.

Radius Arm SET
[H2578-S]



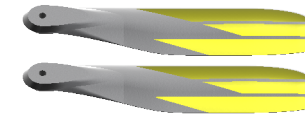
- 1 x Radius Arm Sets.

700 Delrin Damper
[H2584-S]



- 2 x 700 Delrin Dampers.
- 2 x O-rings ID=12,37, S=2,62.

Tail Blades S110 Yellow
[S110-Y]



- 1 x Tail Blades 110mm Yellow.

Main Blades S702 Yellow
[S702-Y]



- 1 x Main Blades 702mm Yellow.

Wrench Nut M8
[HA016-S]



- 1 x Wrench Nut M8.

Canopy Grommet
[HA021-S]



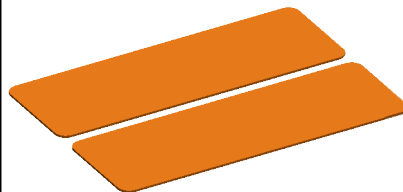
- 5 x Canopy Grommets.

O-ring ID=12,37, S=2,62
[HA024-S]



- 4 x O-rings ID=12,37, S=2,62.

Double-sided Tape 1 mm
[HA035-S]



- 2 x Double-sided Tapes 1 mm.

Strap 20x250mm
[HA041-S]



- 2 x Straps 20x250mm.

Foam Blade Holder
[HA043-S]



























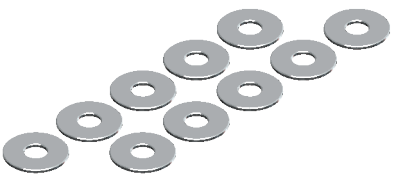
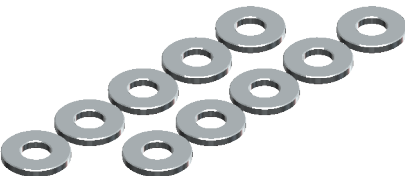



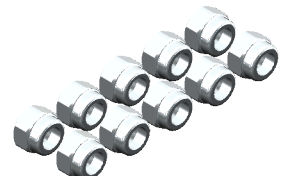
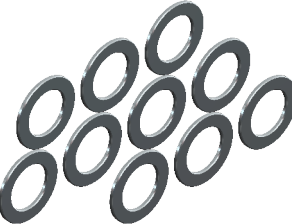
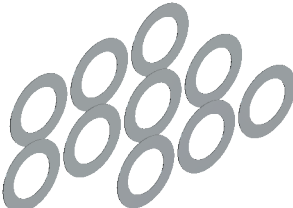






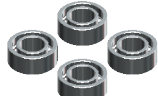

- 1 x Foam Blade Holder.








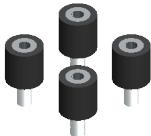


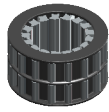

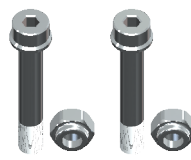

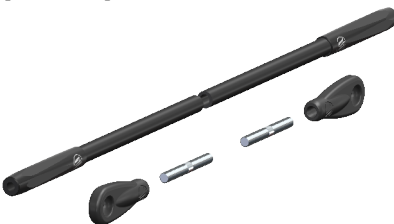





Zip Tie 2,5x200mm
[HA058-S]



- 1 x Zip Tie 2,5x200mm.

<p>[HC004-S]</p>  <p>- 10 x Socket Head Cap Screws M2x6mm.</p>	<p>[HC008-S]</p>  <p>- 10 x Socket Head Cap Screws M2x8mm.</p>	<p>[HC018-S]</p>  <p>- 10 x Socket Head Cap Screws M2,5x6mm.</p>	<p>[HC020-S]</p>  <p>- 10 x Socket Head Cap Screws M2,5x8mm.</p>	<p>[HC022-S]</p>  <p>- 10 x Socket Head Cap Screws M2,5x10mm.</p>
<p>[HC026-S]</p>  <p>- 10 x Socket Head Cap Screws M2,5x12mm.</p>	<p>[HC032-S]</p>  <p>- 10 x Socket Head Cap Screws M2,5x18mm.</p>	<p>[HC044-S]</p>  <p>- 10 x Socket Head Cap Screws M3x6mm.</p>	<p>[HC050-S]</p>  <p>- 10 x Socket Head Cap Screws M3x8mm.</p>	<p>[HC056-S]</p>  <p>- 10 x Socket Head Cap Screws M3x10mm.</p>
<p>[HC062-S]</p>  <p>- 10 x Socket Head Cap Screws M3x12mm.</p>	<p>[HC079-S]</p>  <p>- 2 x Socket Head Cap Shoulder Screws M3x18mm. - 2 x Nylon Nuts M3.</p>	<p>[HC080-S]</p>  <p>- 10 x Socket Head Cap Screws M3x20mm.</p>	<p>[HC096-S]</p>  <p>- 10 x Button Head Cap Screws M4x6mm.</p>	<p>[HC102-S]</p>  <p>- 10 x Socket Head Cap Screws M4x10mm.</p>
<p>[HC111-S]</p>  <p>- 10 x Socket Head Cap Shoulder Screws M4x24mm.</p>	<p>[HC124-S]</p>  <p>- 10 x Socket Head Cap Screws M6x10mm.</p>	<p>[HC132-S]</p>  <p>- 10 x Flat Head Cap Screws M3x5mm.</p>	<p>[HC134-S]</p>  <p>- 10 x Flat Head Cap Screws M3x8mm.</p>	<p>[HC135-S]</p>  <p>- 10 x Flat Head Cap Screws M3x10mm.</p>

<p>[HC140-S]</p>  <p>- 10 x Thread Rods M2,5x20.</p>	<p>[HC150-S]</p>  <p>- 10 x Set Screws M3x20.</p>	<p>[HC153-S]</p>  <p>- 10 x Set Screws M4x6.</p>	<p>[HC181-S]</p>  <p>- 10 x Washers $\varnothing 3 \times \varnothing 7 \times 1$.</p>	<p>[HC188-S]</p>  <p>- 10 x Washers $\varnothing 5,3 \times \varnothing 15 \times 1$.</p>
<p>[HC194-S]</p>  <p>- 10 x Washers $\varnothing 6,1 \times \varnothing 14 \times 1,8$.</p>	<p>[HC200-S]</p>  <p>- 10 x Nylon Nuts M2,5.</p>	<p>[HC206-S]</p>  <p>- 10 x Nylon Nuts M3.</p>	<p>[HC212-S]</p>  <p>- 10 x Nylon Nuts M4.</p>	<p>[HC218-S]</p>  <p>- 10 x Nylon Nuts M5.</p>
<p>[HC230-S]</p>  <p>- 10 x Washers $\varnothing 10 \times \varnothing 16 \times 1$.</p>	<p>[HC232-S]</p>  <p>- 10 x Washers $\varnothing 10 \times \varnothing 16 \times 0,2$.</p>	<p>[HC304-S]</p>  <p>- 1 x Belt HTD 3M 2061-6.</p>	<p>[HC335-S]</p>  <p>- 4 x O-rings Shore 70.</p>	<p>[HC351-S]</p>  <p>- 10 x Flat Head Cap Screws M4x6mm.</p>
<p>[HC400-S]</p>  <p>- 4 x Flanged Bearings $\varnothing 2,5 \times \varnothing 6 \times 2,6 \text{mm}$.</p>	<p>[HC402-S]</p>  <p>- 4 x Flanged Bearings $\varnothing 3 \times \varnothing 7 \times 3 \text{mm}$.</p>	<p>[HC406-S]</p>  <p>- 4 x Ball Bearings $\varnothing 5 \times \varnothing 9 \times 3 \text{mm}$.</p>	<p>[HC411-S]</p>  <p>- 4 x Ball Bearings $\varnothing 5 \times \varnothing 10 \times 4 \text{mm}$.</p>	<p>[HC414-S]</p>  <p>- 2 x Flanged Bearings $\varnothing 6 \times \varnothing 13 \times 5 \text{mm}$.</p>

<p>[HC419-S]</p>  <p>- 2 x Ball Bearings Ø 8x Ø 16x5mm.</p>	<p>[HC422-S]</p>  <p>- 2 x Ball Bearings Ø 10x Ø 19x5mm.</p>	<p>[HC424-S]</p>  <p>- 2 x Ball Bearings Ø 12x Ø 21x5mm.</p>	<p>[HC426-S]</p>  <p>- 2 x Ball Bearings Ø 12x Ø 24x6mm.</p>	<p>[HC435-S]</p>  <p>- 2 x Thrust Bearings Ø 5x Ø 10x4mm.</p>
<p>[HC438-S]</p>  <p>- 2 x Thrust Bearings Ø 10x Ø 18x5,5mm.</p>	<p>[HC545-S]</p>  <p>- 10 x Socket Head Shoulder Cap Screws M4x21.5mm.</p>	<p>[HC573-S]</p>  <p>- 4 x Rubber Pins M3 65 Shore.</p>	<p>[HC576-S]</p>  <p>- 10 x Flat Head Cap Screws M2,5x12mm.</p>	<p>[HC601-S]</p>  <p>- 1 x Belt HTD 3M 276-19mm.</p>
<p>[HC602-G-S]</p>  <p>- 1 x Clutch OWB Ø 12x Ø 20x11mm.</p>	<p>[HC608-S]</p>  <p>- 10 x Socket Head Cap Screws M3x25mm.</p>	<p>[HC645-S]</p>  <p>- 2 x Socket Head Cap Shoulder Special Screws M5x30mm. - 2 x Nylon Nuts M5.</p>	<p>[HC697-S]</p>  <p>- 10 x Self Tapping Head Cap Screws M2,5x6mm.</p>	<p>[HC702-S]</p>  <p>- 1 x Carbon Rod Ø 2,5x Ø 4x738mm SET.</p>
<p>[HC709-S]</p>  <p>- 10 x Flat Head Cap Screws M2,5x15mm.</p>	<p>[HC712-S]</p>  <p>- 10 x Countersunk Flat Head Screws M3x8mm.</p>	<p>[HC714-S]</p>  <p>- 10 x Washers Ø 3,1x Ø 5,75x0,5mm.</p>	<p>[HC764-S]</p>  <p>- 10 x Self Tapping Head Cap Screws M3x8mm.</p>	<p>[HC777-S]</p>  <p>- 2 x Flanged Bearings Ø 6x Ø 17x6mm.</p>



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