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



VERY IMPORTANT

You will find your serial number on the RED plate of the transmission module and on the product card included with your kit. Please take a moment to register your kit online via our web site at:

http://www.goblin-helicopter.com

It is extremely important that you take a moment to register your helicopter with us. This is the only way to ensure that you are properly informed about changes to your kit, such as upgrades, retrofits and other important developments. SAB Heli Division cannot be held responsible for any issues with your model and will not provide support unless you register your model.

The Serial number is also engraved in the Aluminum part.

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

SAB Heli Division

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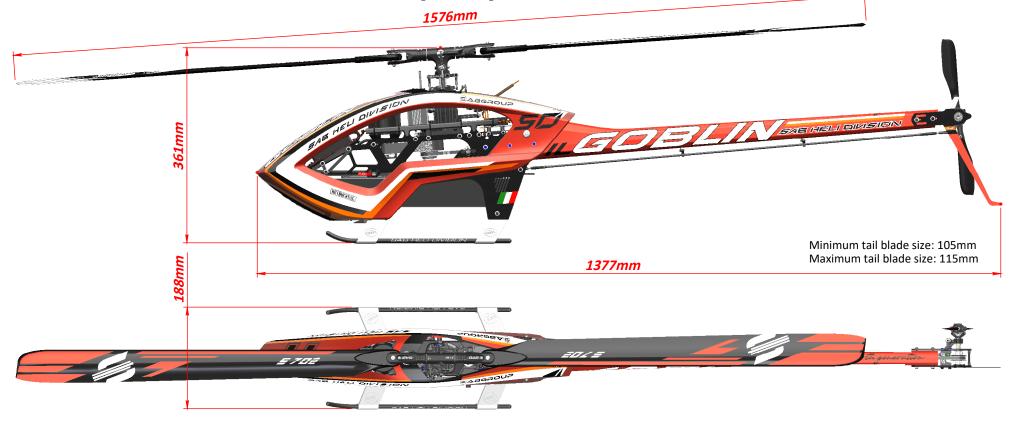
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ILGOBLIN PRO [SG760] TECHNICAL SPECIFICATIONS



- AIRFRAME weight: 2178 gr (no blades, no battery, no electronics).
- Main rotor diameter: 1576 mm (with 700 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: 15 mm, Tail shaft: 8 mm.
- Molded carbon tail boom .

KIT Includes:

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

- 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: 5.1-4.9:1 (26T included: 4.9:1).
- Motor: 12S, 480/560 KV.
- Battery room: 50x60x300 mm.
- S702 Orange (700 mm main blade).
- S110 Orange (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

NOTES FOR ASSEMBLY

TOOLS, LUBRICANTS, ADHESIVES

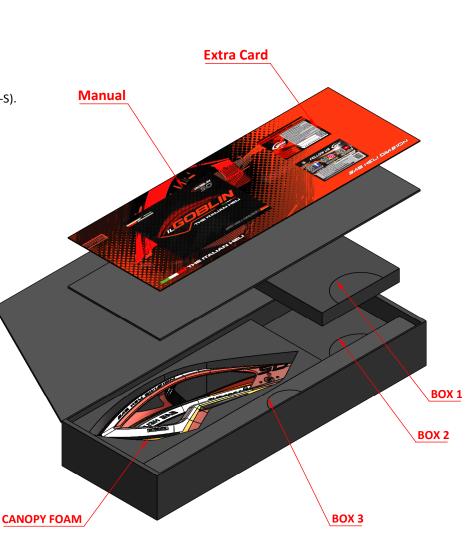
*Generic pliers. *Hexagonal driver, size 1.5, 2, 2.5, 3mm. *4/5mm T-Wrench. *5.5mm Socket wrench (for M3 nuts). *8mm Hex fork wrench (for M5 nuts).

*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).

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:

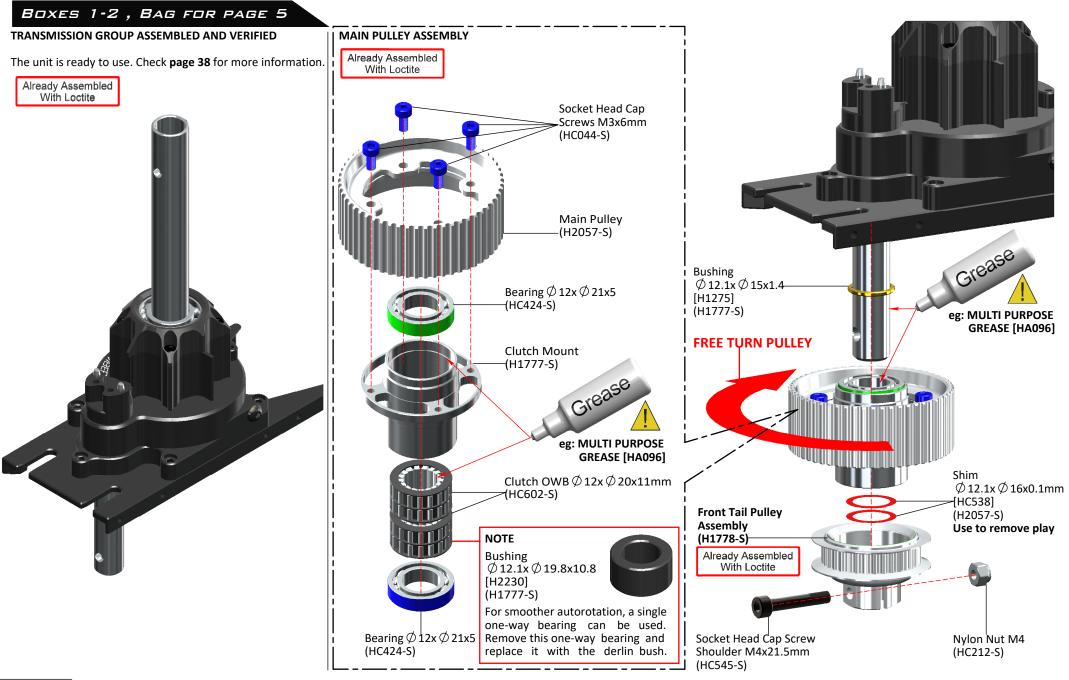




INSIDE THE MAIN BOX THERE ARE:

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.

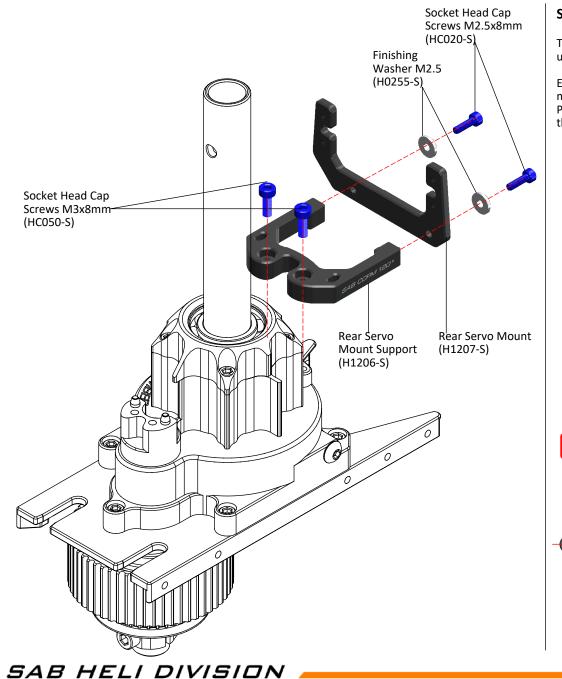




SWASHPLATE SERVOS ASSEMBLY



BOX 1, BAG FOR PAGE 6

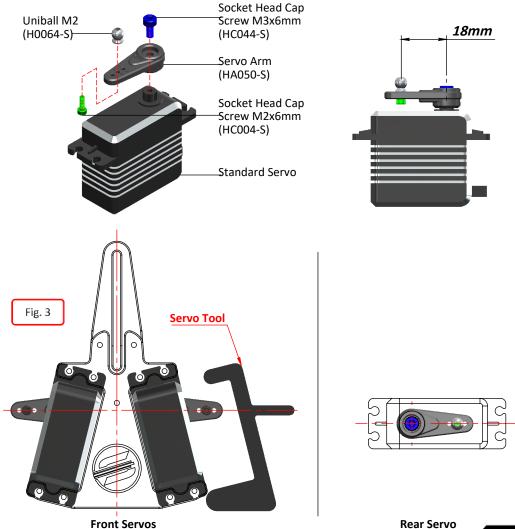


SERVO ASSEMBLY

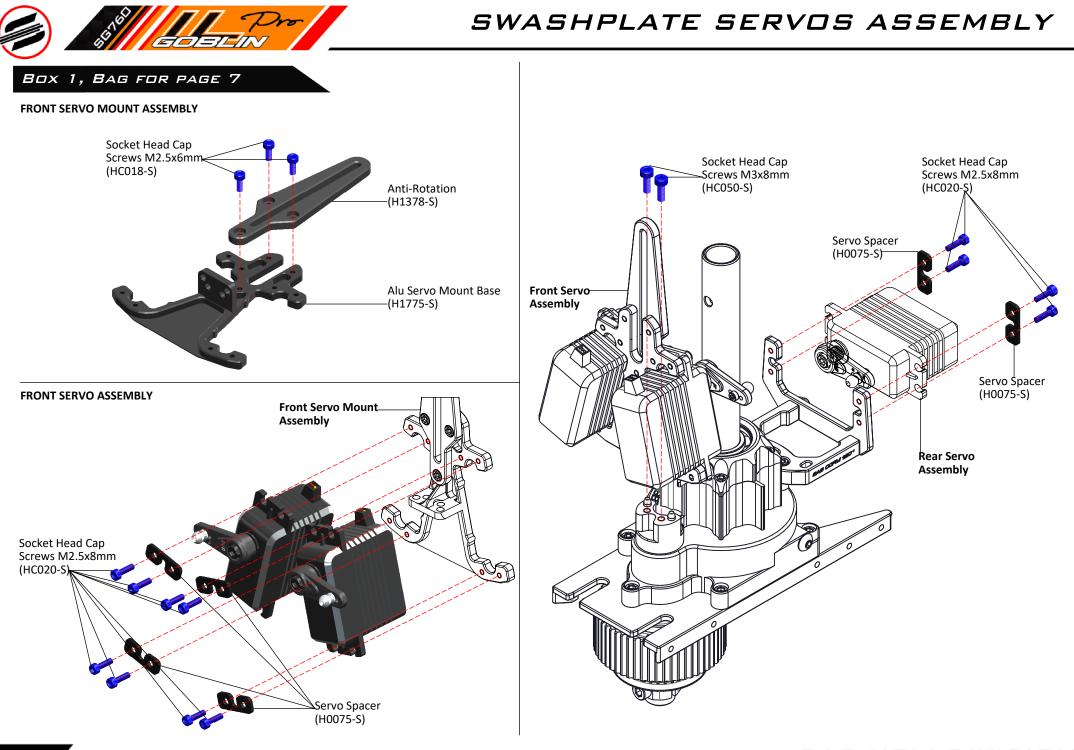
The linkage ball must be positioned 18 mm out on the servo arm. The recommended servo arm to use is: SAB p/n [HA050/HA051].

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)



Rear Servo



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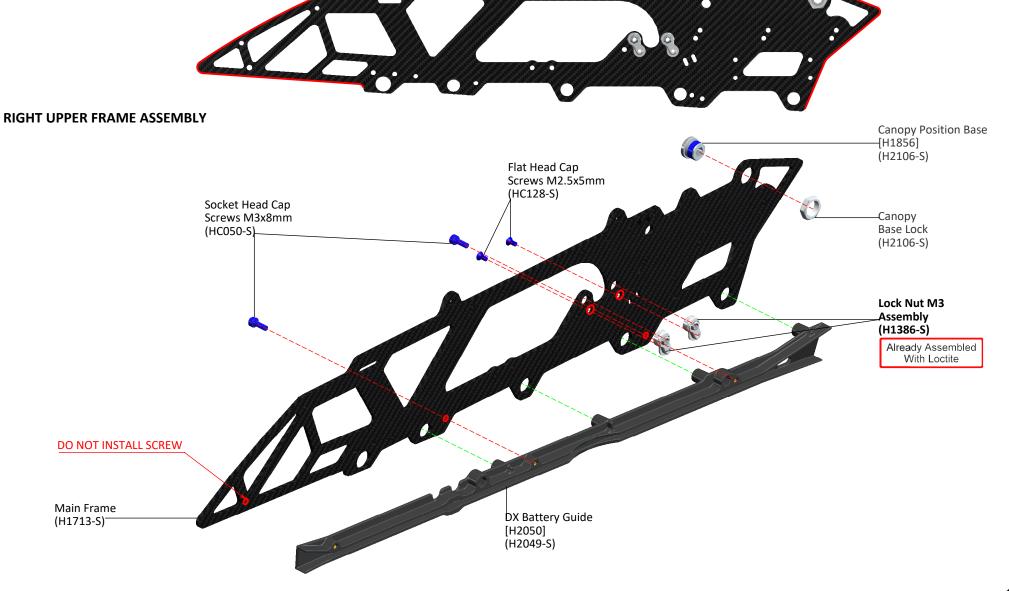


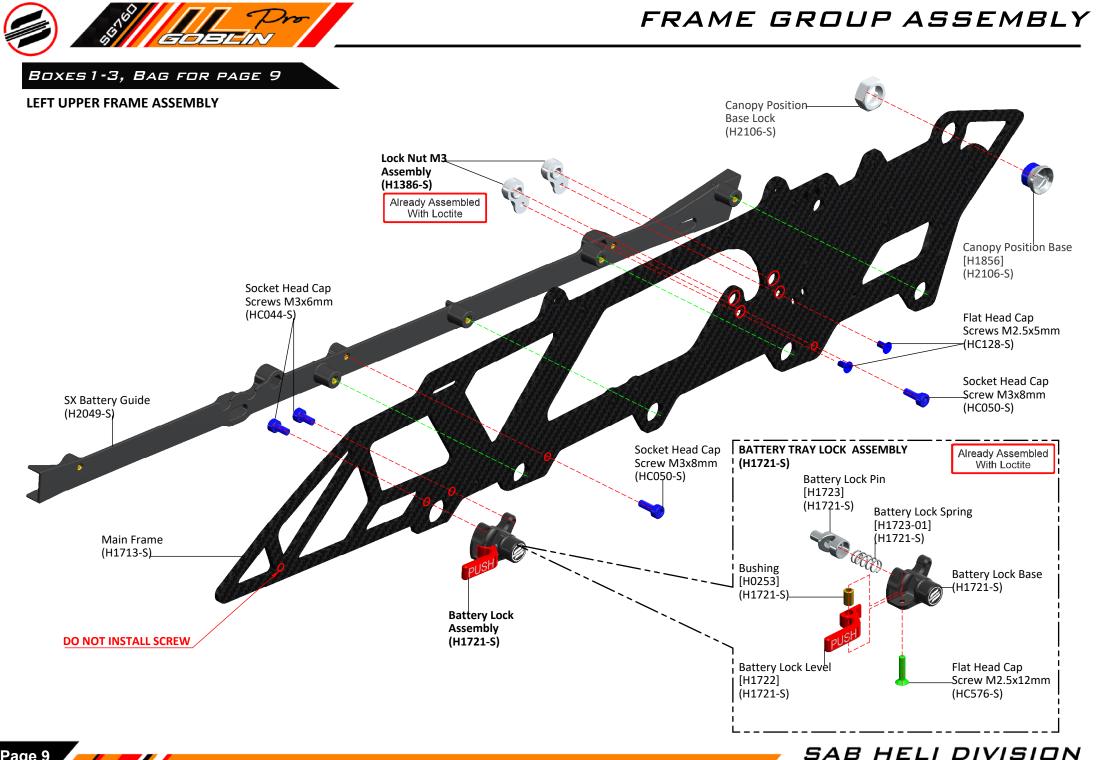
Boxes 1-3, BAG FOR PAGE 8

CARBON FRAME



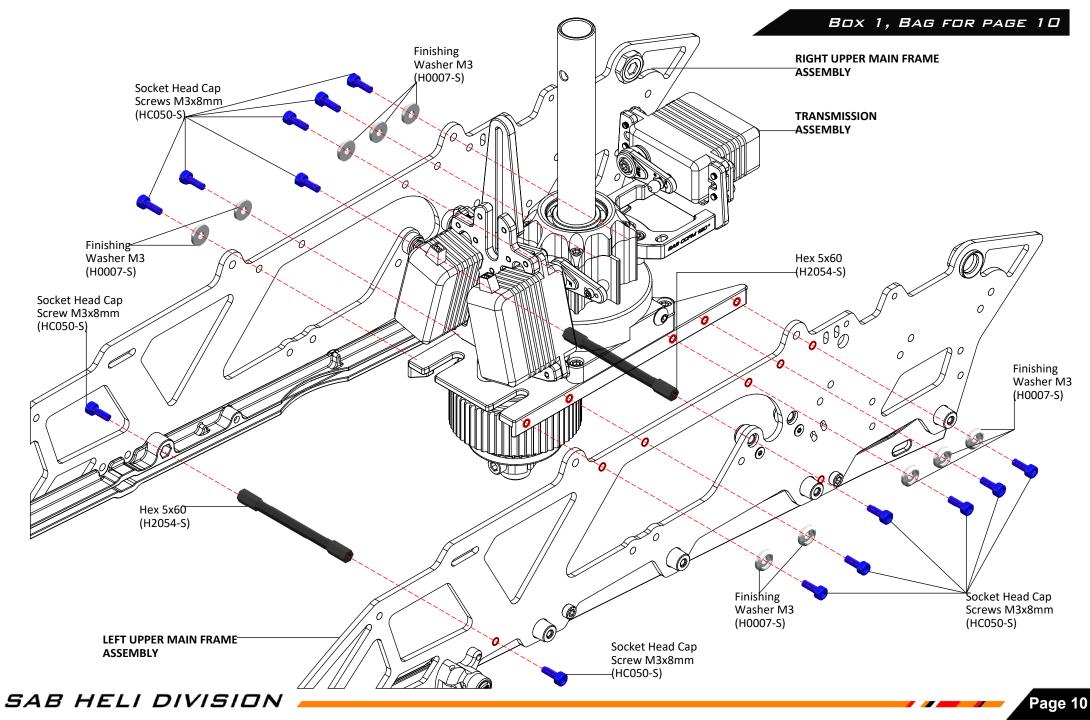
The manufacturing process of the carbon parts often leaves micro-burrs and sharp edges. We recommend de-burring the edges to minimize the risks of electrical wire cuts, etc. It is very important to do this along the red lines.





FRAME GROUP ASSEMBLY





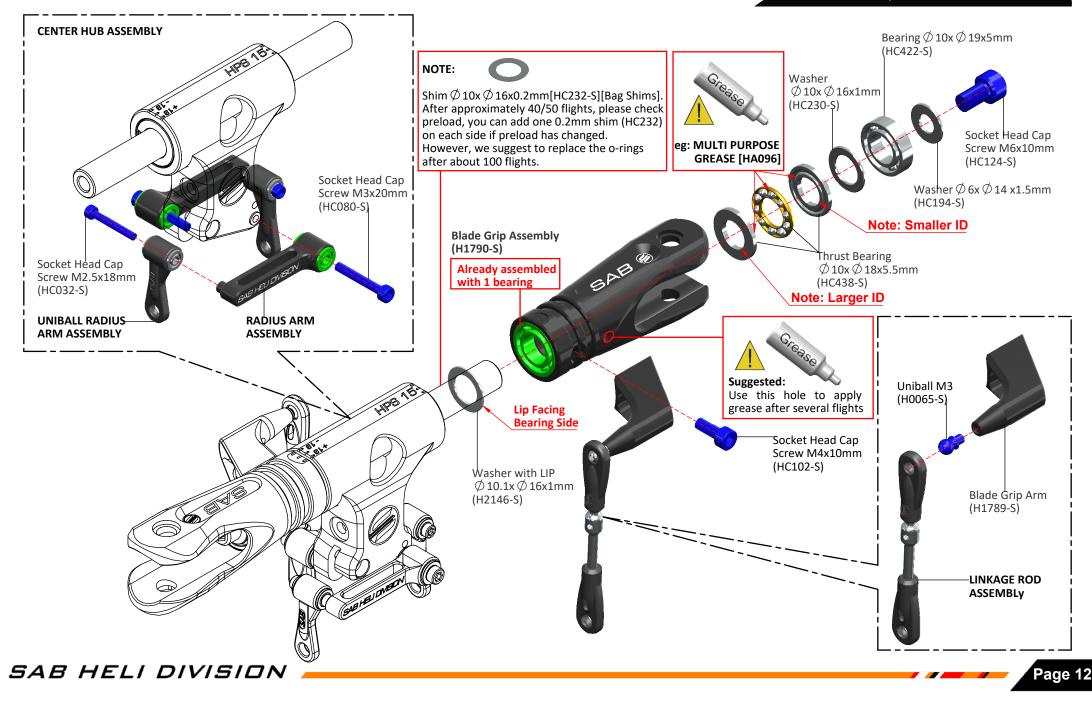
HEAD ASSEMBLY



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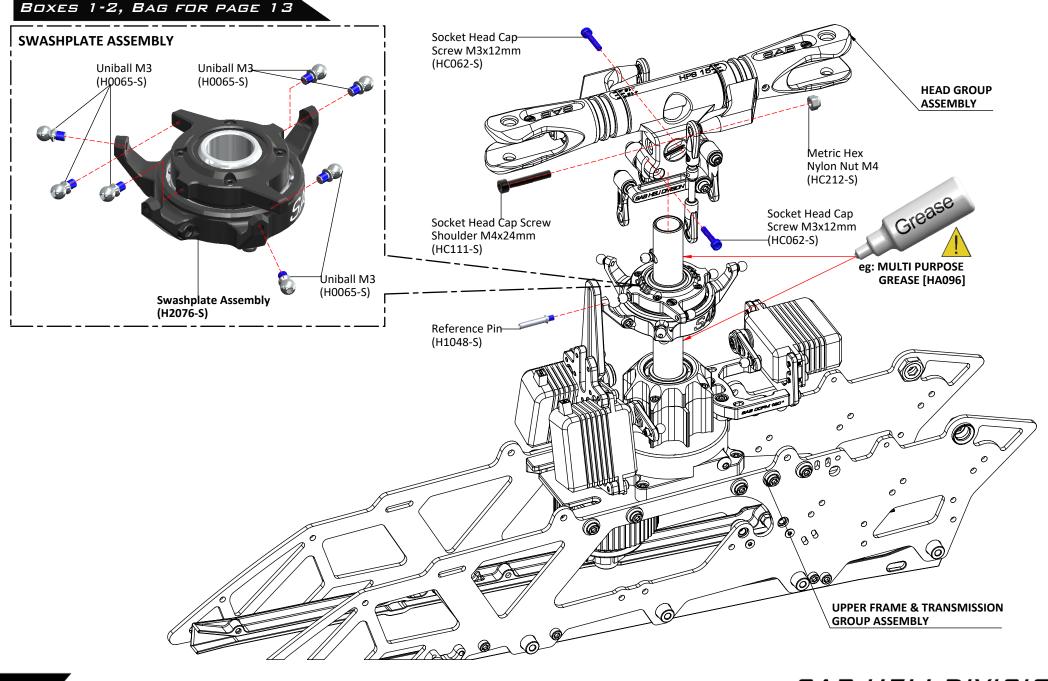


Boxes1-2, Bag for page 12



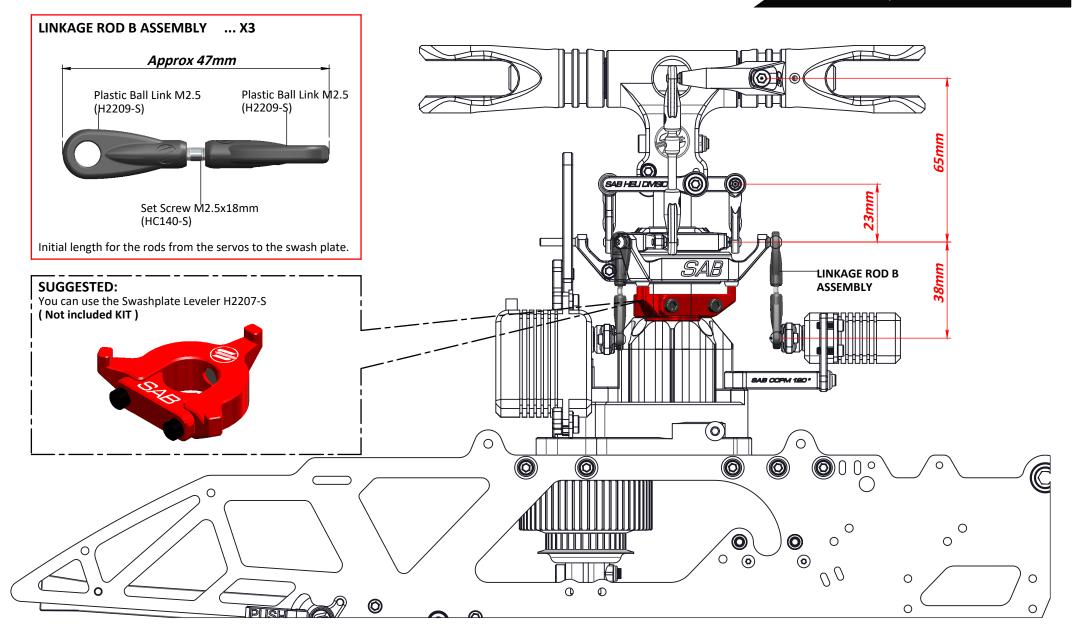


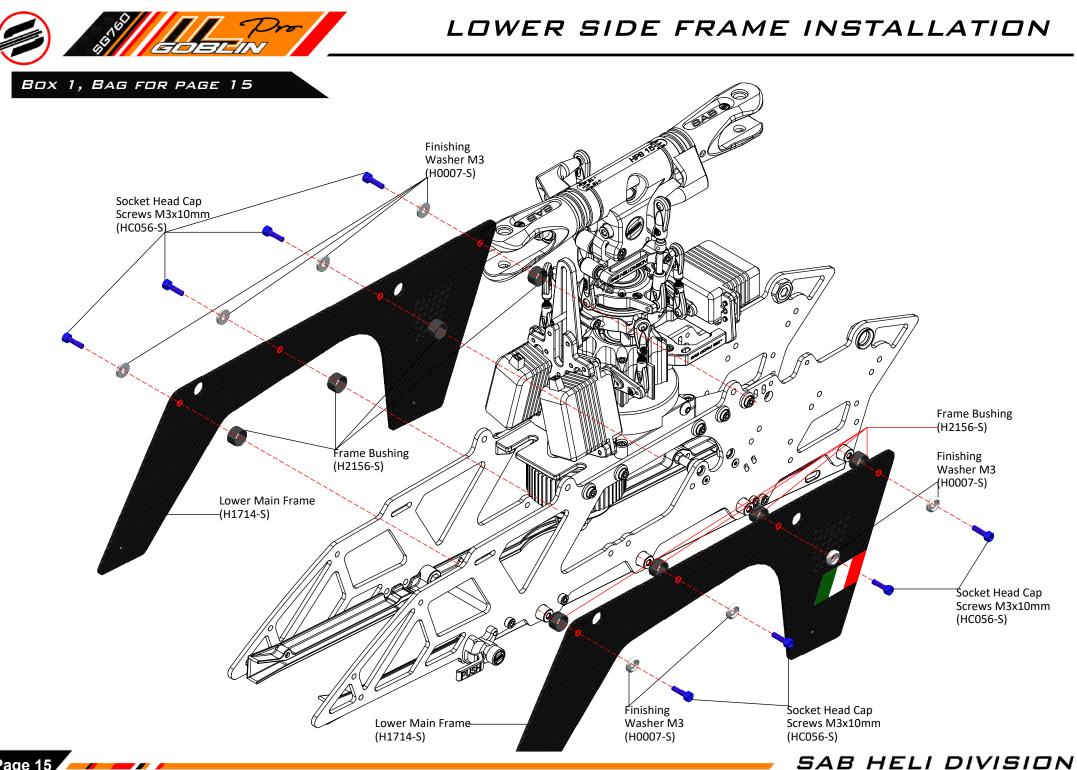
ASSEMBLING OF THE MODULES





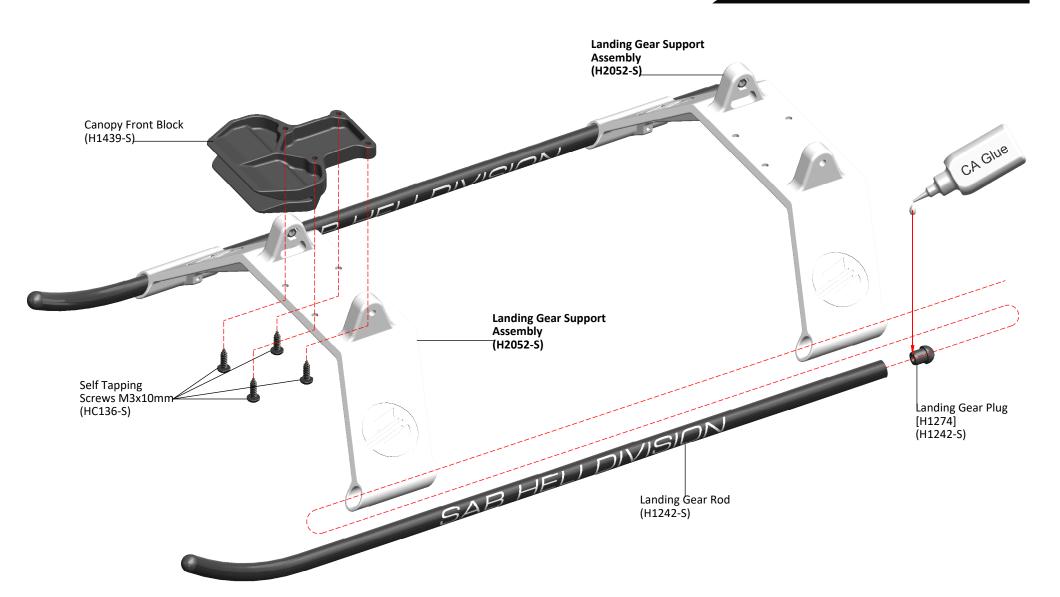
BOX 1, BAG FOR PAGE 14







Boxes 1-3, BAG FOR PAGE 16

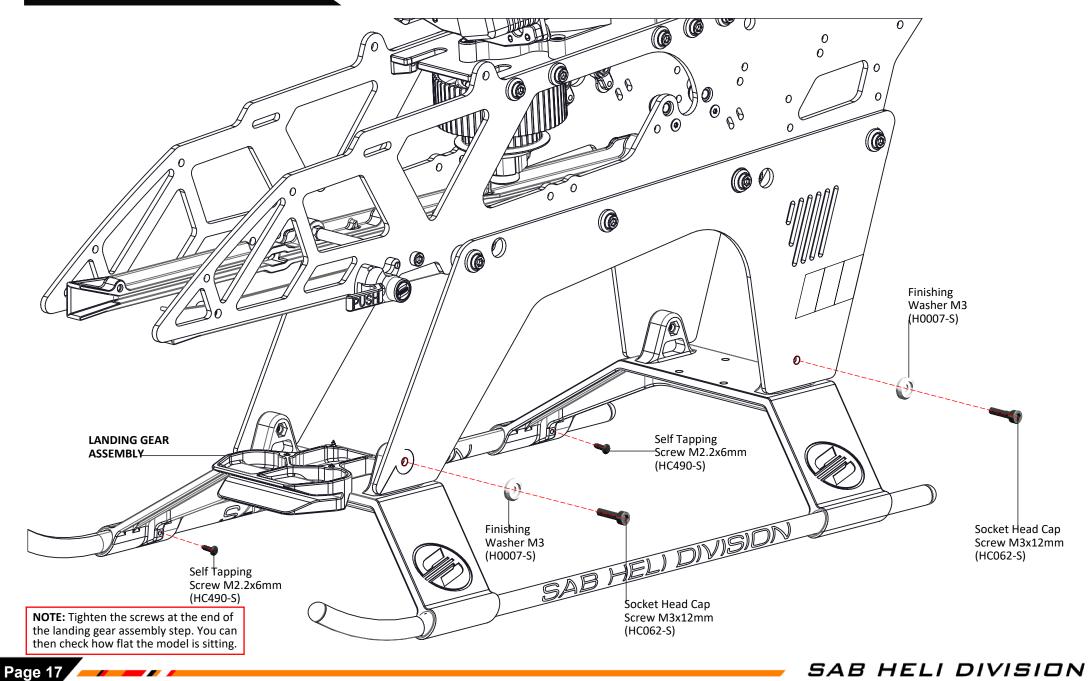


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LANDING GEAR INSTALLATION

BOX 1, BAG FOR PAGE 17





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.

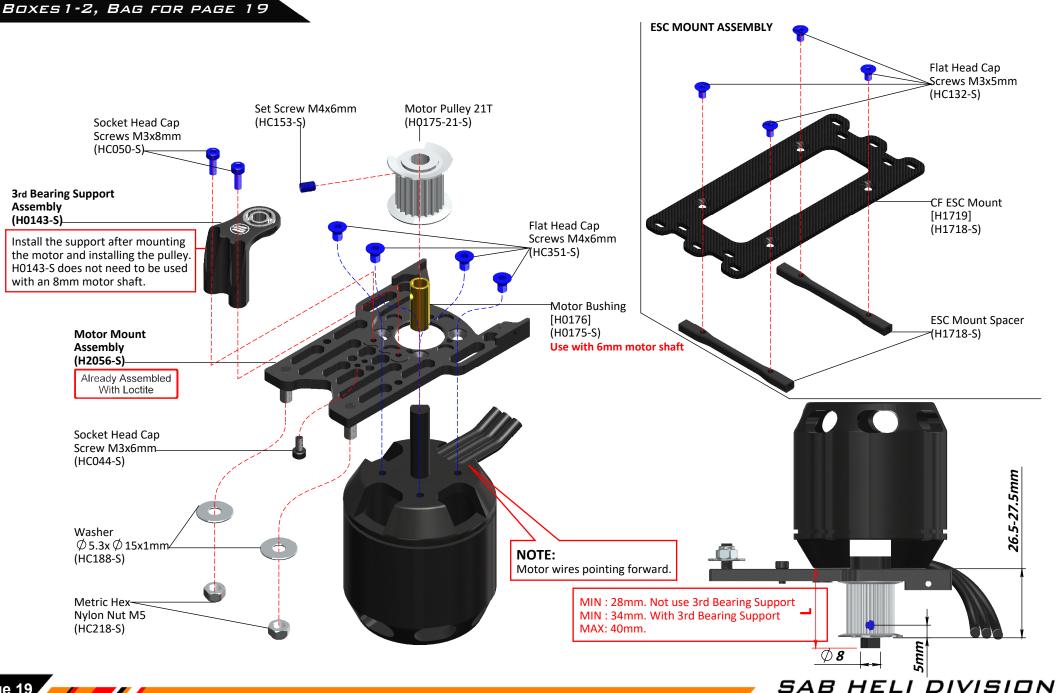
BELOW IS A LIST OF AVAILABLE REDUCTION RATIOS:

0175-18-S - 18T Pinion = ratio 11.8:1	H0175-22-S - 22T Pinion = ratio 9.6:1
10175-19-S - 19T Pinion = ratio 11.2:1	H0175-23-S - 23T Pinion = ratio 9.2:1
10175-20-S - 20T Pinion = ratio 10.6:1	H0175-24-S - 24T Pinion = ratio 8.8:1
10175-21-S - 21T Pinion = ratio 10.1:1	H0175-25-S - 25T Pinion = ratio 8.4:1

ILGOBLIN PRO CONFIGURATIONS						
Battery	Motor	ESC	Pinion (a, b)	RPM Max (a, b)	Rev:0	
12S 4200/5500 mAh	Scorpion HK5-4525-535kV Xnova 4525-530kv lightning Pyro 750-560 TENGU 4525HT/550KV	HW HV180 V5 Kosmik 170HV YGE 205HVT SCORPION II 14-200A	21T / 22T 20T / 21T	2100/2200	± 12	
Xnova 4530-525kv lightning 4500/5500 mAh Scorpion HK5-5024-535kV	HW HV260 V5 Kosmik 250HV	22T / 23T 24T / 25T	2200/2300	± 13		
		YGE 205HVT SCORPION II 14-200A	21T / 22T	-		



INSTALLATION OF THE MOTOR/ESC

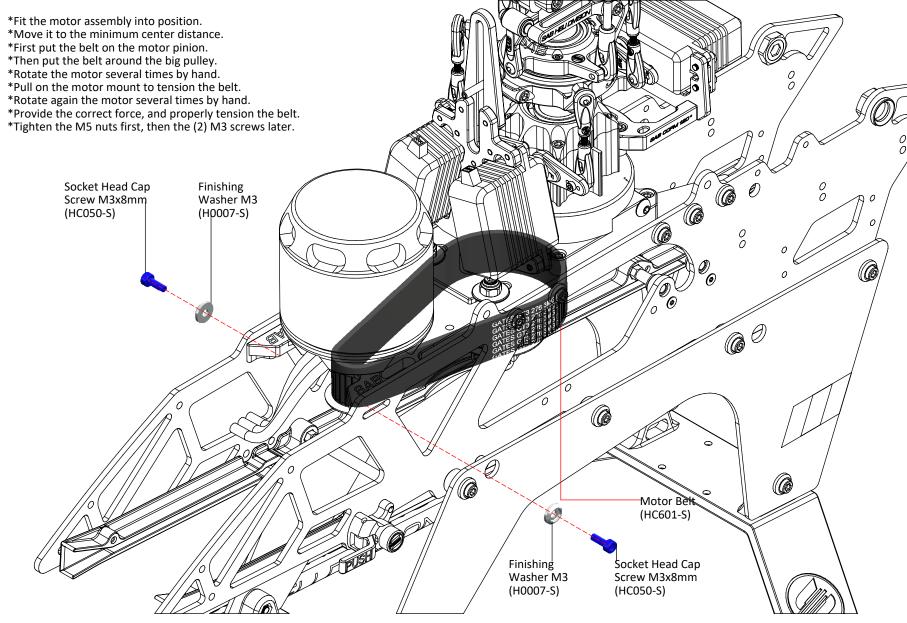


INSTALLATION OF THE MOTOR/ESC



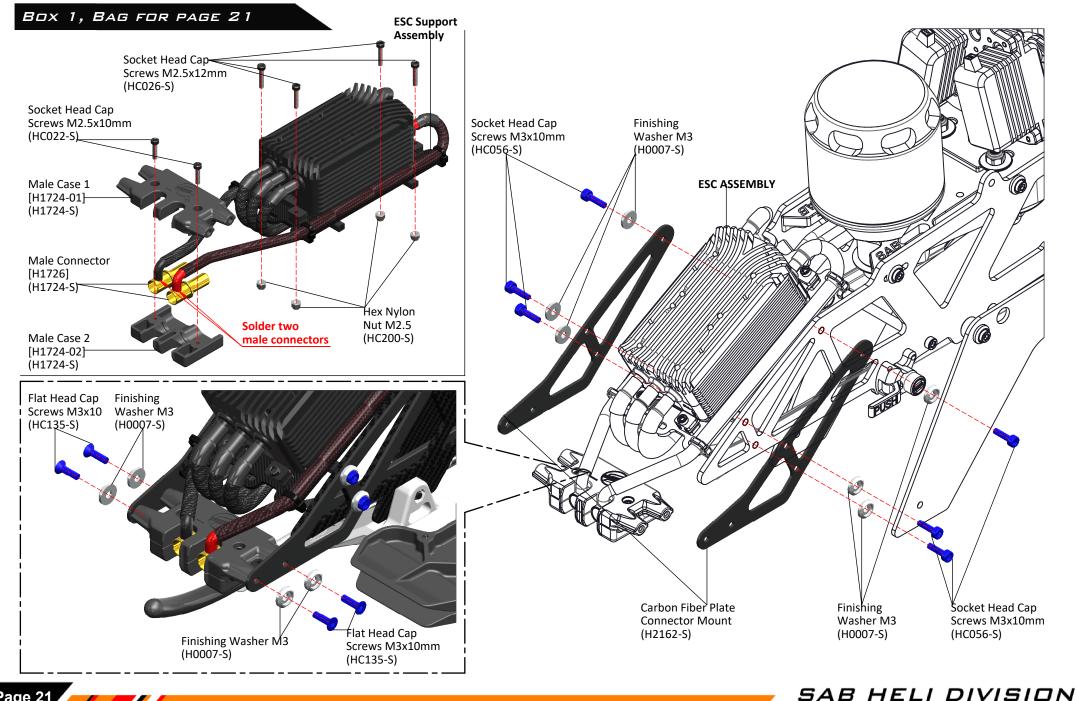
BOX 1, BAG FOR PAGE 20

MOTOR BELT TENSION





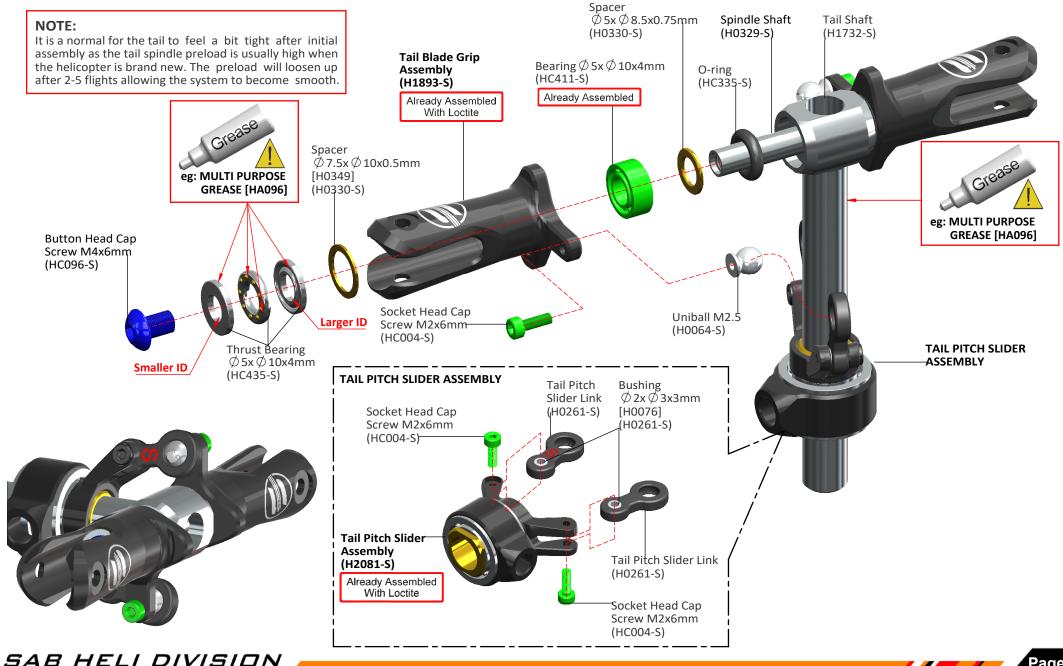
INSTALLATION OF THE MOTOR/ESC



TAIL GROUP ASSEMBLY

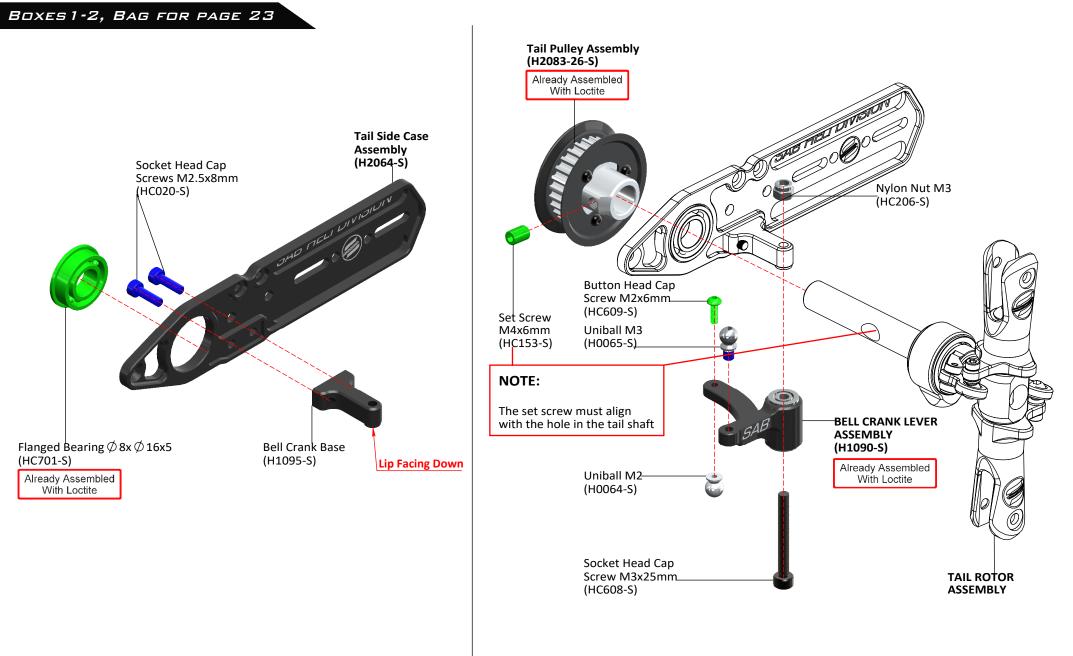


BOXES 1-2, BAG FOR PAGE 22



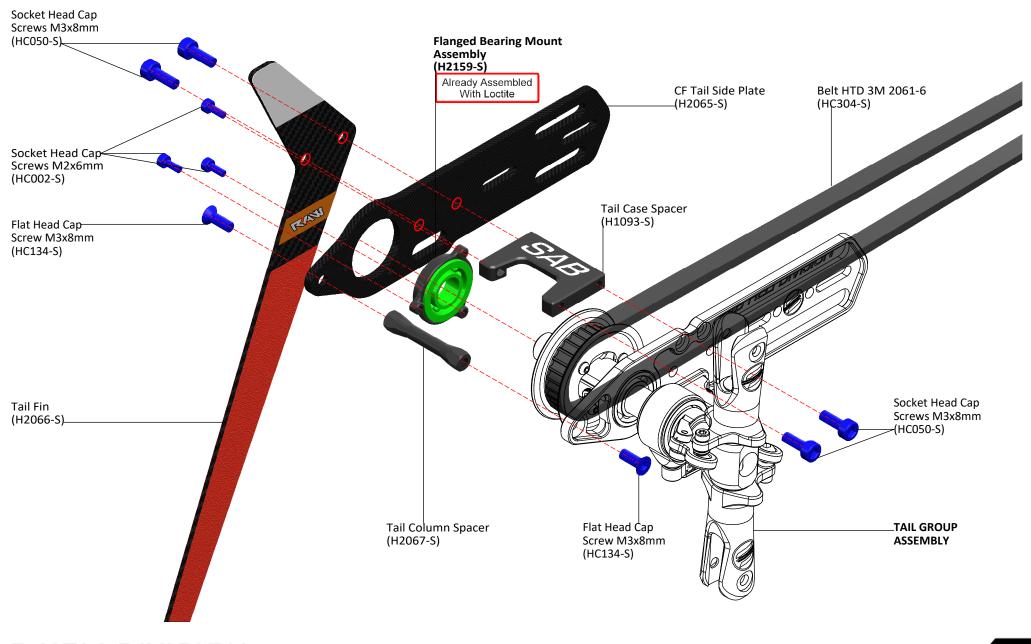


TAIL GROUP ASSEMBLY





BOX 1, BAG FOR PAGE 24

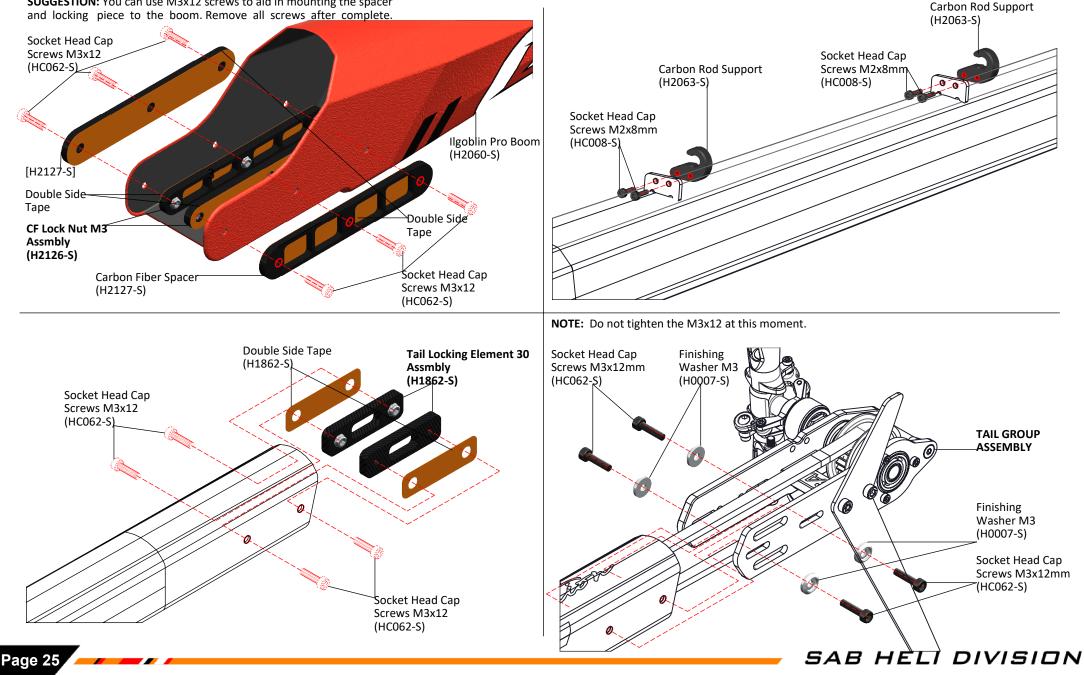


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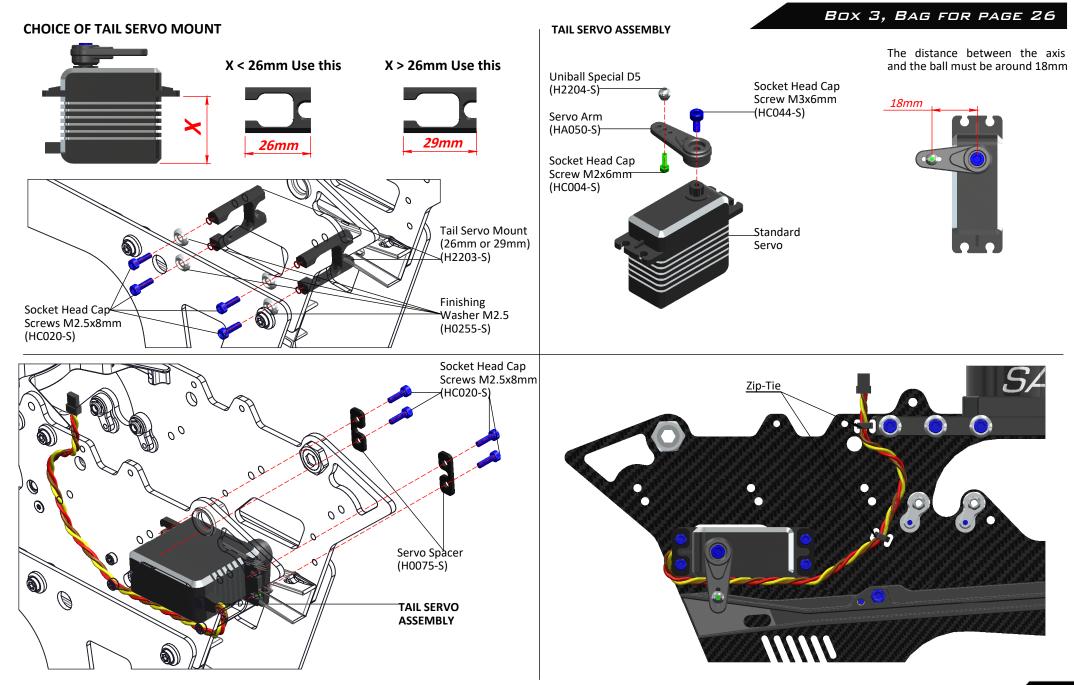


BOXES1-3, BAG FOR PAGE 25

SUGGESTION: You can use M3x12 screws to aid in mounting the spacer









BOX 1, BAG FOR PAGE 27

TAIL BOOM ASSEMBLY

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

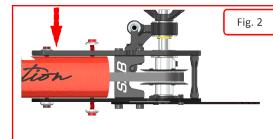
*Install the belt onto the tail front pulley, checking the direction of rotation.

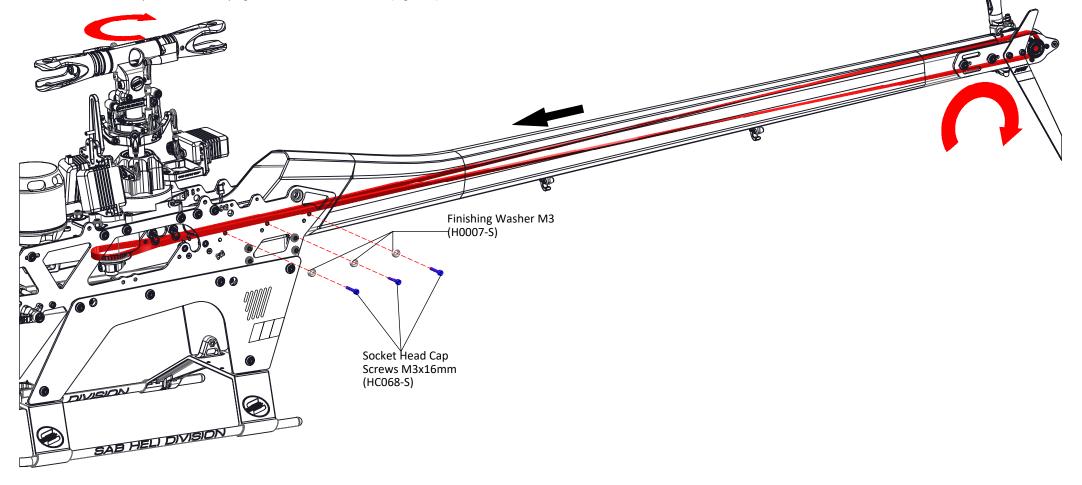
*Insert and tighten the 6 M3 screws.

*Rotate the tail drive several times by hand.

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



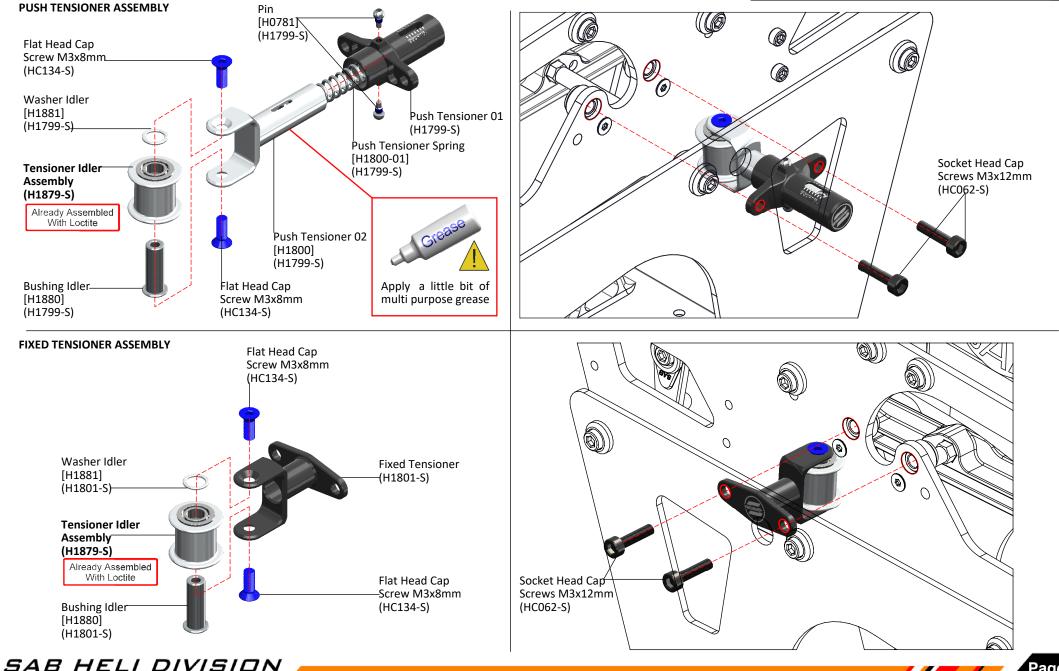




TAIL BOOM ASSEMBLY



BOX 1, BAG FOR PAGE 28





TAIL BELT TENSION

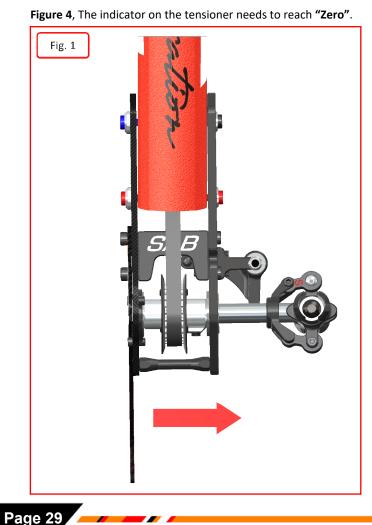
To provide the correct tail belt tension, you can use the "zig-zag" method.

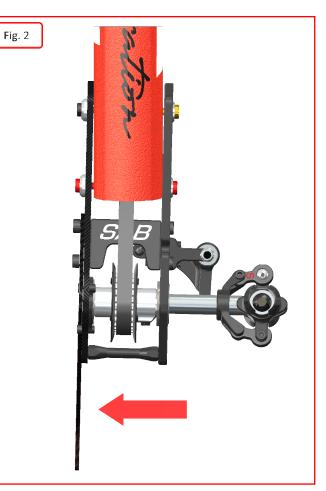
Figure 1, Loosen the 2 RED screws and the BLUE screw, then push the tail side in the direction indicated by the red arrow. While pushing, tighten the BLUE screw.

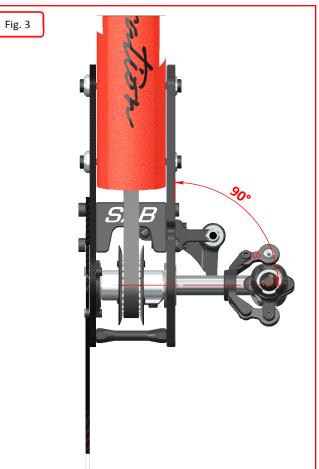
Figure 2, Loosen the 2 **RED** screws and the **YELLOW** screw, then push the tail side as indicated by the red arrow. While pushing, tighten the **YELLOW** screw. Continue adjusting step by step until the tail belt is sufficiently tight. Note that a Hard 3D flying style will require more tension; once you achieve the desired tension, ensure all screws are tight and the tail shaft is perfectly aligned and straight.

Figure 3, The tail output shaft must be perpendicular to the boom mid-line.



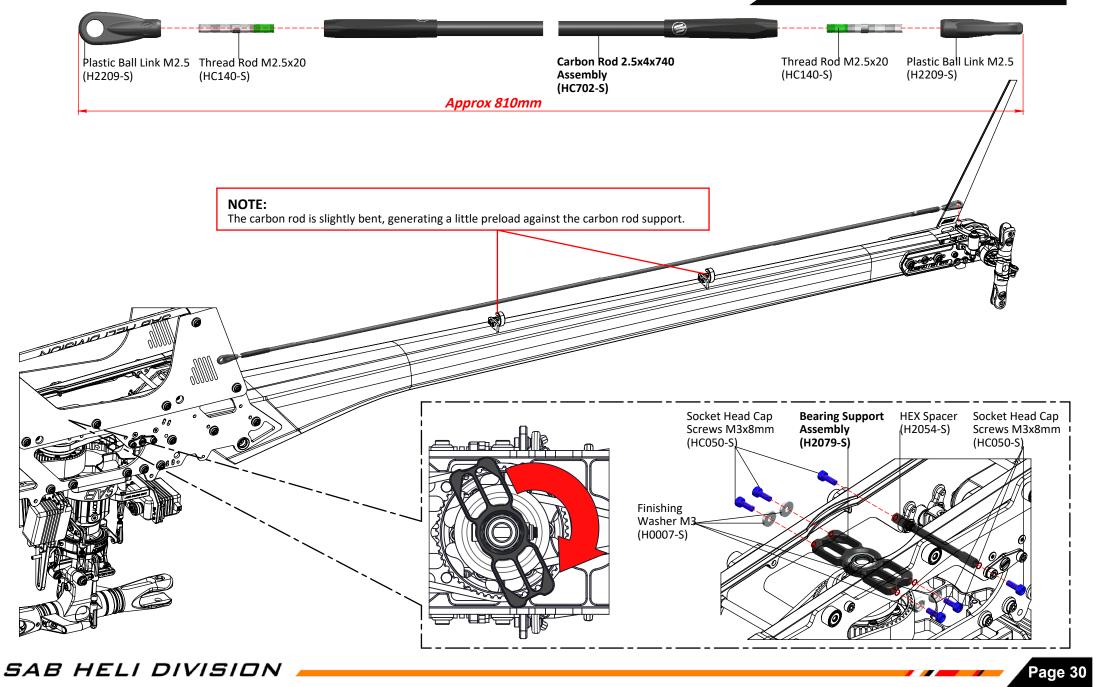










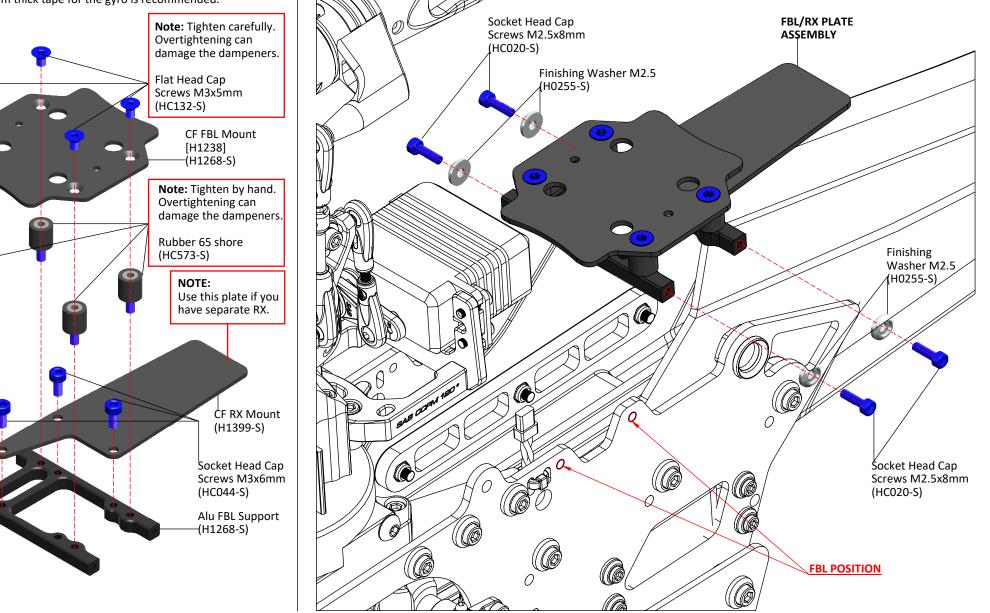




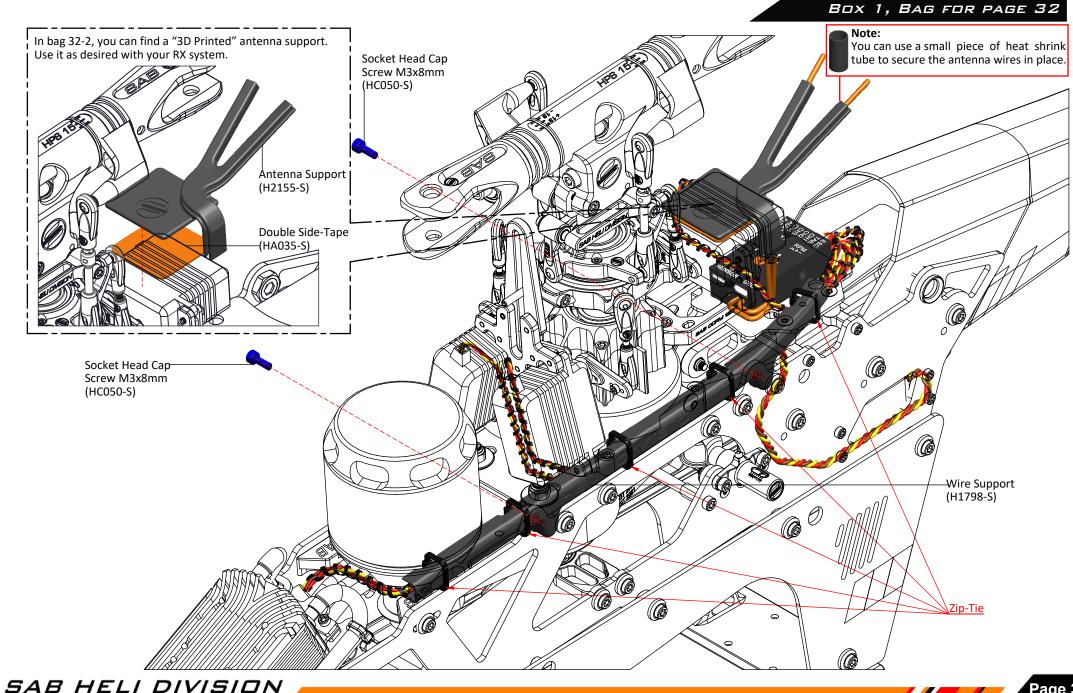
BOX 1, BAG FOR PAGE 31

FBL/RX PLATE ASSEMBLY

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







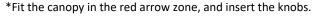


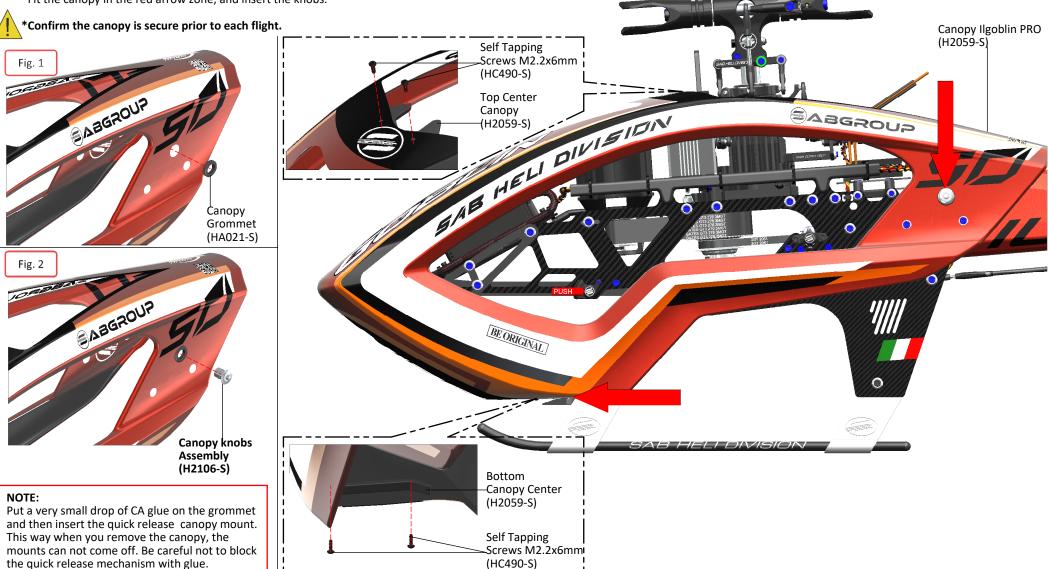
BOX 1, BAG FOR PAGE 33

CANOPY

Page 33

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

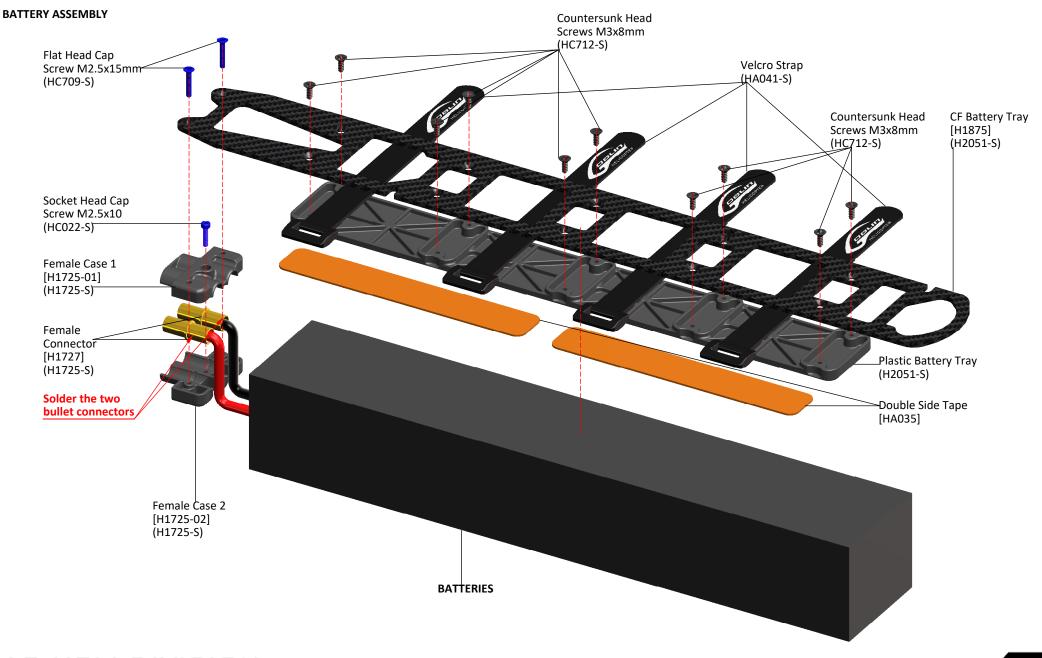




INSTALLATION BATTERIES



BOX 1, BAG FOR PAGE 34



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BOX 1, BAG FOR PAGE 36

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.

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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 O-ring and dampers you can get different responses of the model.

O-ring

80 Shore: Soft for smooth response

90 Shore: Firm for direct and precise response

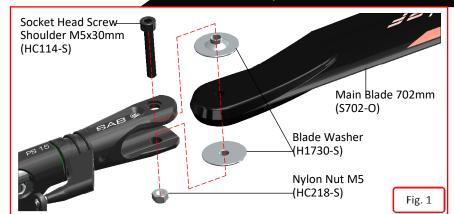
Damper

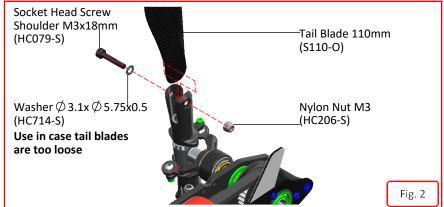
- A = Max movement of the spindle, feeling more elastic.
- B = Medium.

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

The kit includes B damper H1046-B with 90 Shore O-ring [other Setting >>p/n H1135-S, HC530-S].











MAINTENANCE

MAINTENANCE

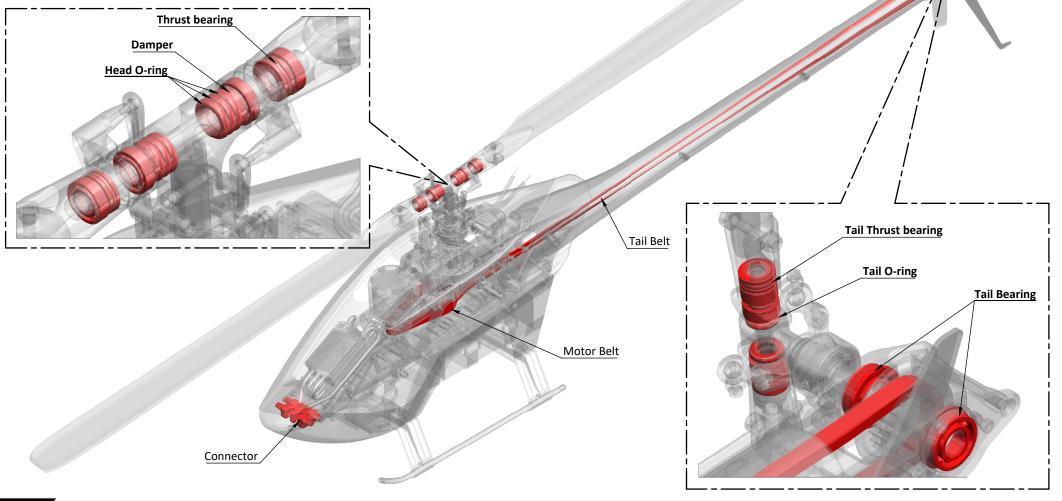
Take a look at the red parts.

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

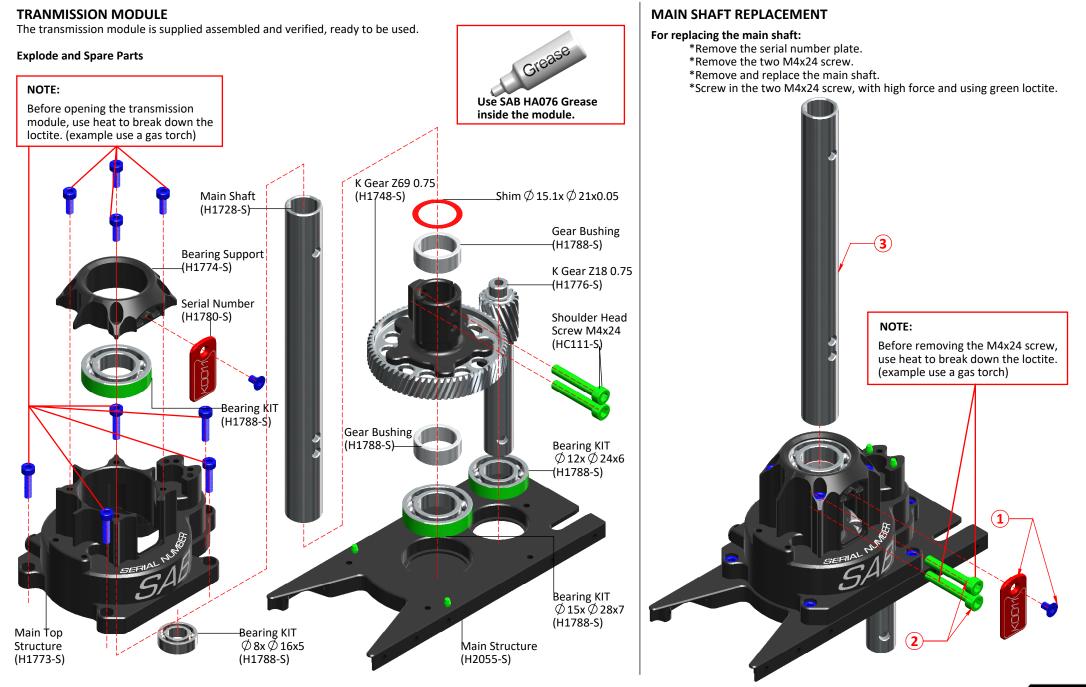
The lifespan of these components varies according to the type of flying.

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:

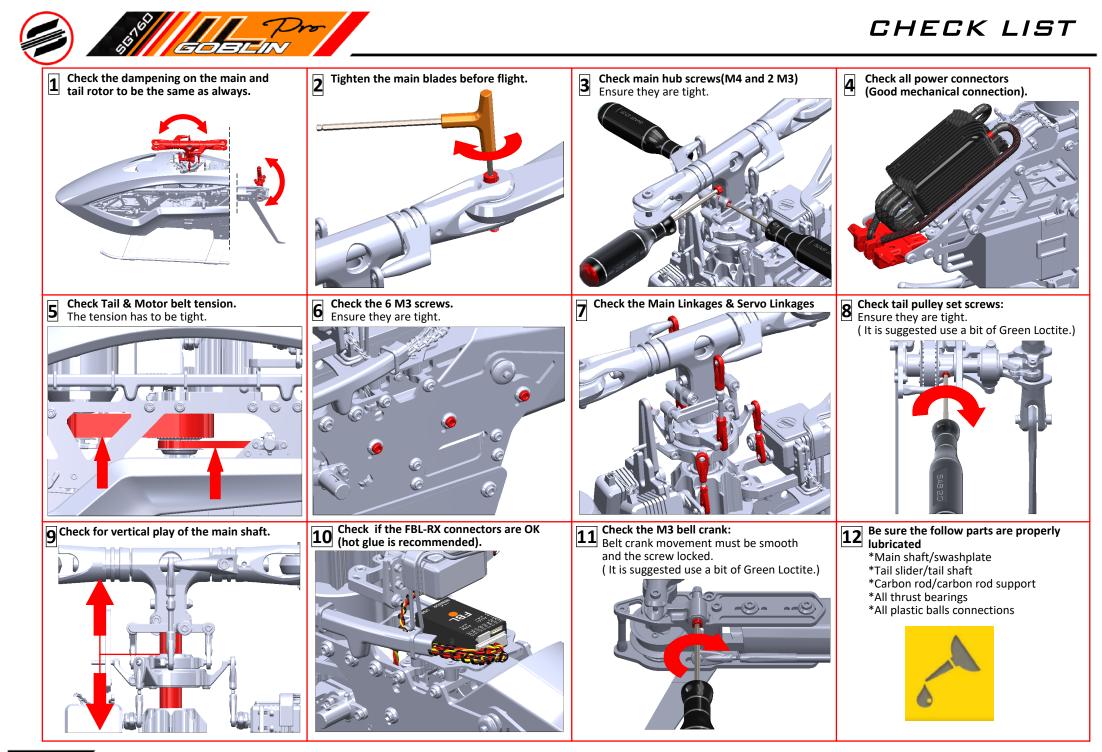
- Proper belt tension (motor belt and tail belt).
- Proper isolation of the wires from the carbon and aluminum parts.
- All screws and bolts remain tight.







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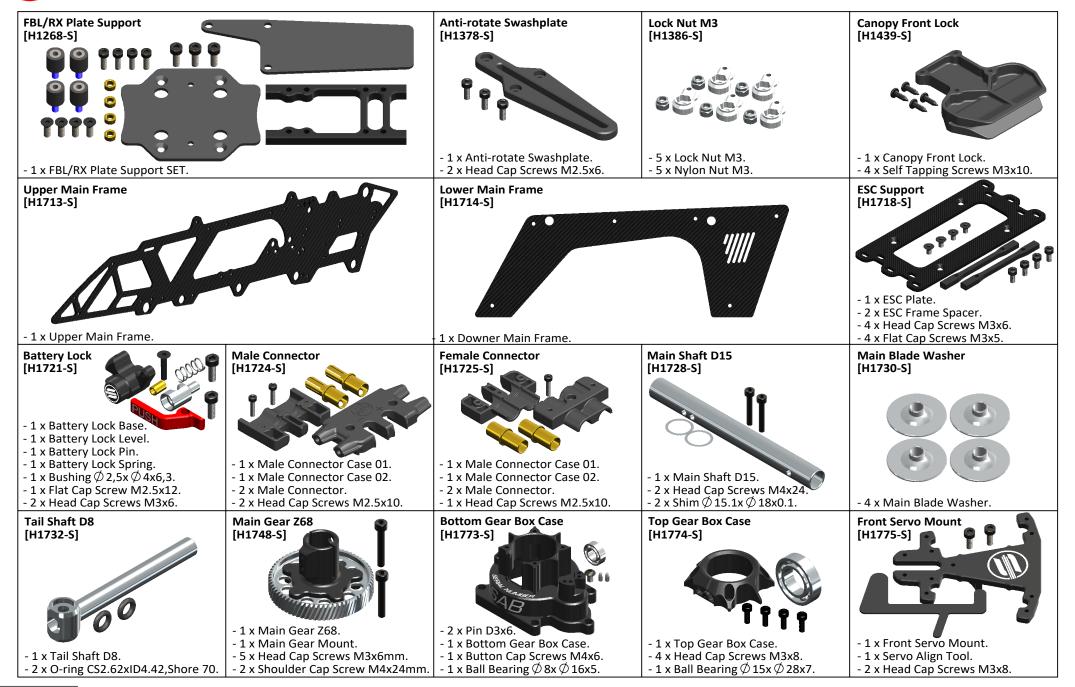




Finishing Washer M3 [H0007-S]	Unibal M2 [H0064-S]	Servo Spacer [H0075-S]	Main Spindle [H0079-S]	Motor Pulley [H0175-18/25-S]
	 - 5 x Unibal M2. - 5 x Unibal Spacer. - 5 x Head Cap Screws M2x6mm. - 5 x Head Cap Screws M2x8mm. 		 - 1 x Main Spindle. - 2 x Washer Ø 6.1x Ø 14x1.8mm. - 2 x Button Head Cap Screws M6x10. 	- 1 x Motor Pulley Z18/25. - 1 x Motor Bushing. - 1 x Set Screw M4x4.
- 10 x Finishing Washer M3. Plastic Radius Arm [H0205-S]	Finishing Washer M2,5 [H0255-S]	- 10 x Servo Spacer. Tail Pitch Slider Link [H0261-S]	Tail Spindle [H0329-S]	- 1 x Set Screw M4x6. Spacer Set For Tail Rotor [H0330-S]
		:1188		
- 2 x Plastic Radius Arm.	- 10 x Finishing Washer M2,5.	- 2 x Tail Pitch Slider Link. - 2 x Bushing $ otin 2x \phi$ 3x3. - 2 x Head Cap Screws M2x6mm.	- 1 x Tail Spindle. - 2 x Button Head Cap Screws M4x6.	- 2 x Tail Oring Damper. - 2 x Washer ∅ 5x ∅ 8.9x0,75mm. - 2 x Washer ∅ 7.5x ∅ 10x0,5mm.
Linkage Rod M3x50 [H0417-S]	Damper Derlin [H1046-S]	Reference Pin [H1048-S]	Bell Crank Clever [H1090-S]	Tail Case Spacer [H1093-S]
- 2 x Linkage Rod M3x50. - 4 x Plastic Ball Linkage.	- 2 x Damper B. - 6 x O-ring 95 Shore.	- 1 x Reference Pin.	 1 x Bell Crank Lever Assembled. 1 x Head Cap Screw M3x22mm. 1 x Head Cap Screw M2x6mm. 2 x Washer Ø 3.2x Ø 6x0.1mm. 	- 1 x Tail Case Spacer. - 4 x Head Cap Screws M3x8mm.
Bell Crank Support [H1095-S]	Back Servo Mount Support [H1206-S]	Back Servo Mount [H1207-S]	Landing Gear Rod D8x335 [H1242-S]	
1		Etetelle	SARI	
		 - 1 x Back Servo Mount. - 2 x Finishing Washer M2.5. 		

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Pinion Z18xD12 [H2229-S]	Front Tail Pulley Z34 [H1778-S] - 1 x Front Tail Pulley Z34. - 1 x Nylon Nut M4. - 2 x Shim Ø 12.1x Ø 16x0.1.	Serial Number [H1780-S]	Bearing Transmission KIT [H1788-S] - 2 x Bushing \emptyset 15.1x \emptyset 19x7.5. - 1 x Ball Bearing \emptyset 8x \emptyset 16x5. - 1 x Ball Bearing \emptyset 12x \emptyset 24x6. - 2 x Ball Bearing \emptyset 15x \emptyset 28x7.	Blade Grip Arm 30 [H1789-S]	
- 1 x Pinion Z18xD12.	- 1 x Shouldered Cap Screw M4x21.5.	- 1 x Flat Cap Screw M3x5.	- 2 x Shim \emptyset 15.1x \emptyset 18x0.1.	- 2 x Head Cap Screws M4x10mm.	
Main Blade Grip [H1790-S] $-1 \times Main Blade Grip.$ $-1 \times Washer Ø 10x Ø 16x1.$ $-1 \times Washer Ø 6,1x Ø 14x1,8.$ $-1 \times Head Cap Screw M6x10mm.$ $-1 \times Thrust Bearing Ø 10x Ø 18x5,5.$	Plastic Wire Cover [H1798-S]	and a start of the	Push Tensioner [H1799-S]	Fixed Tensioner [H1801-S]	
- 2 x Ball Bearing $ otin 10 ext{x} otin 19 ext{x5}.$	- 2 x Head Cap Screws M3x8mm.		- 1 x Push Tensioner SET.	- 1 x Fixed Tensioner SET.	
Tail Locking Element 30 [H1862-S] - 2 x Tail Locking Element 30. - 2 x Tail Locking Element 30 Tape. - 4 x Nylon Nut M3.	Tail Belt Idler D9x12.5 [H1879-S]Tail Blade Grip [H1893-S]Image: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the system- 2 x Tail Belt Idler D9x12.5. - 4 x Flanged Bearing Ø 5x Ø 9x3.Image: Constraint of the system- 2 x Tail Belt Idler D9x12.5. - 4 x Flanged Bearing Ø 5x Ø 9x3.Image: Constraint of the system		Battery Guide 700 [H2049-S]		
Plastic Battery Tray [H2051-S]	8mm.	y Tray with Connector SET.	Plastic Landing Gear [H2052-S] et et et et - 2 x Plastic Landing Gear. - 4 x Nylon Nut M3. - 4 x Tapping Head Screws M2.2x6.	HEX 5 Spacer M3x60 [H2054-S]	

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Main Plate [H2055-S]	Motor Mount [H2056-S]	Canopy Ilgoblin Pro [H2059-S]	Boom Ilgoblin Pr [H2060-S]	o
- 1 x Main Plate. - 2 x Pin 3x6. - 1 x Ball Bearing \emptyset 12x \emptyset 24x6. - 1 x Ball Bearing \emptyset 15x \emptyset 28x7.	 1 x Motor Mount 700. 1 x Head Cap Screw M3x6mm. 2 x Washer Ø 5,3x Ø 15x1. 2 x Nylon Nut M5. 2 x Set Screw M5x16mm. 	 1 x SLS Bottom Center Canopy. 1 x SLS Top Center Canopy. 4 x Self Tapping Screws M2.2x6. 	Canopy Grommet. - 1 x Boom Ilgobli - 1 x Hardware SE	ET.
Cabon Rod Support [H2063-S]	Alu Tail Side Plate [H2064-S]	Carbon Fiber Tail Side Plate [H2065-S]	Carbon Fiber Tail Fin [H2066-S] - 1 x Carbon Fiber Tail Fin. - 2 x Head Cap Screws M3x8.	Tail Column Spacer [H2067-S]
- 2 x Carbon Rod Support. - 4 x Head Cap Screws M2x8.	- 1 x Alu Tail Side Plate. - 1 x Flanged Bearing \emptyset 8x \emptyset 16x5.	- 1 x Carbon Fiber Tail Side Plate.	- 1 x Orange Sticker. - 1 x Yellow Sticker.	 - 1 x Tail Column Spacer. - 2 x Flat Head Cap Screws M3x8.
Main Hub D15 [H2074-S]	Radius Arm 34,25 [H2075-S] - 2 x Plastic Radius Arm. - 2 x Bushing \emptyset 2,5x \emptyset 4x6,3. - 2 x Bushing \emptyset 3.2x \emptyset 4.5x6. - 2 x Radius Arm 34.25. - 2 x Head Cap Screws M2,5x18. - 2 x Head Cap Screws M3x20. - 2 x Flanged Bearing \emptyset 2,5x \emptyset 6x2,6. - 2 x Flanged Bearing \emptyset 3x7x3.		Swashplate D15 [H2076-S] - 1 x Swashplate SET Assembly. - 7 x Uniball M3. - 1 x Reference Pin.	 3rd Bearing Support (H2079-S) - 1 x 3rd Bearing Support. - 4 x Finishing Washer M3. - 4 x Head Cap Screws M3x8mm. - 1 x Ball Bearing Ø 12x Ø 21x5.
D8 Tail Pitch Slider [H2081-S]	Tail Pulley Z26 [H2083-26-S]	Canopy Quick Release [H2106-S]	Carbon Fiber Lock Nut M3 Boom [H2126-S]	Carbon Fiber Spacer Boom [H2127-S]
 1 x D8 Tail Pitch Slider 02. 1 x D8 Tail Pitch Slider 03. 2 x Ball Bearing 10x15x4. 	 2 x Tail Pulley Z26 WS. 6 x Button Cap Screws M2x4mm. 1 x Set Screw M4x6mm. 	- 2 x Canopy Quick Release.	- 2 x CF Lock Nut M3 Boom. - 2 x CF Lock Nut M3 Boom Tape. - 6 x Nylon Nut M3.	- 2 x CF Spacer Boom. - 2 x CF Spacer Boom Tape.

SPARE PARTS



Double Clutch System [H1777-S]		Main Pulley [H2057-S]	Washer $ otin 10.1x \circ 16x1 $ with LIP [H2146-S]	SLS Antenna 700 [H2155-S]
		- 1 x Main Pulley Z56.		- 1 x SLS Antena 700.
- 1 x Double Clutch System SET.		- 4 x Head Cap Screws M3x4.	- 4 x Washer \emptyset 10.1x \emptyset 16x1.	- 1 x Double-sided Tape.
Frame Bushing [H2156-S]	Tail Bearing Mount [H2159-S]	700 Connector Plate [H2162-S]	Tail Servo Mount [H2203-S]	Uniball Special D5 [H2204-S]
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	- 1 x Tail Bearing Mount. - 3 x Head Cap Screws M2x5.		- 2 x Tail Servo Mount 29mm. - 2 x Tail Servo Mount 26mm.	- 5 x Uniball Special D5.
- 8 x Frame Bushing.	- 1 x Flanged Bearing 8x16x5.	- 2 x 700 Connector Plate.	- 4 x Head Cap Screws M2.5x8.	- 5 x Head Cap Screws M2x6.
Plastic Ball Linkage M2.5 [H2209-S]	Plastic Ball Linkage M3 [H2210-S]	Wrench Nuts M8 [HA016-S]	Canopy Grommet [HA021-S]	Double-sided Tape Battery [HA035-S]
		UND EAE	000	
- 10 x Plastic Ball Linkage M2.5.	- 10 x Plastic Ball Linkage M3.	- 1 x Wrench Nuts M8.	- 5 x Canopy Grommet.	- 2 x Double-sided Tape Battery.
Straps 20x250mm [HA041-S]		Foam Blade Holder [HA043-S]		Zip Tie 2.5x200mm [HA058-S]
- 2 x Straps 20x250mm.		- 1 x Foam Blade Holder.		- 50 x Zip Tie 2.5x200mm.

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[HC002-S]	[HC004-S]	[HC018-S]	[HC020-S]	[HC022-S]	[HC032-S]
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- 10 x Socket Head Cap Screws M2x5mm.	- 10 x Socket Head Cap Screws M2x6mm.	- 10 x Socket Head Cap Screws M2.5x6mm.	- 10 x Socket Head Cap Screws M2.5x8mm.	- 10 x Socket Head Cap Screws M2.5x10mm.	- 10 x Socket Head Cap Screws M2.5x18mm.
[HC044-S]	[HC050-S]	[HC056-S]	[HC062-S]	[HC068-S]	[HC079-S]
THIT	1417				
- 10 x Socket Head Cap Screws M3x6mm.	- 10 x Socket Head Cap Screws M3x8mm.	- 10 x Socket Head Cap Screws M3x10mm.	- 10 x Socket Head Cap Screws M3x12mm.	- 10 x Socket Head Cap Screws M3x16mm.	 - 2 x Socket Head Cap Shoulder Screws M3x18mm. - 2 x Nylon Nut M3.
[HC096-S]	[HC102-S]	[HC111-S]	[HC114-S]	[HC124-S]	[HC128-S]
- 10 x Button Head Cap Screws M4x6mm.	- 10 x Socket Head Cap Screws M4x10mm.	- 10 x Head Cap Shoulder Screws M4x24.	- 2 x Head Cap Shoulder Screws M5x30. - 2 x Nylon Nut M5.	- 10 x Socket Head Cap Screws M6x10mm.	- 10 x Flat Head Cap Screws M2.5x5mm.
[HC132-S]	[HC134-S]	[HC135-S]	[HC136-S]	[HC140-S]	[HC153-S]
- 10 x Flat Head Cap Screws M3x5mm.	- 10 x Flat Head Cap Screws M3x8mm.	- 10 x Flat Head Cap Screws M3x10mm.	- 10 x Self Tapping Head Cap Screws M3x10mm.	- 10 x Thread Rod M2.5x20.	- 10 x Set Screw M4x6.
[HC181-S]	[HC188-S]	[HC194-S]	[HC200-S]	[HC206-S]	[HC212-S]
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- 10 x Washer Ø 3x Ø 7x1.	- 10 x Washer \emptyset 5.3x \emptyset 15x1.	- 10 x Washer \emptyset 6.1x \emptyset 14x1.8	10 x Nylon Nut M2.5.	- 10 x Nylon Nut M3.	- 10 x Nylon Nut M4.



[HC218-S]	[HC230-S]	[HC304-S]			[HC335-S]
0000000	8000				000 - 4 x O-ring 2.62x4.42,
- 10 x Nylon Nut M5.	- 10 x Washer $ otin 10 ext{x} otin 16 ext{x}1. $	- 1 x Belt HTD 3M 2061-6mm.			Shore 70.
[HC351-S]	[HC400-S]	[HC402-S]	[HC406-S]	[HC411-S]	[HC422-S]
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- 10 x Flat Head Cap Screws M4x6mm.	- 4 x Flanged Bearing ϕ 2,5x ϕ 6x2,6mm.	- 4 x Flanged Bearing \emptyset 3x \emptyset 7x3mm.	- 4 x Ball Bearing $\oint 5x \oint 9x3mm.$	- 4 x Ball Bearing $\oint 5x \oint 10x4mm.$	- 2 x Ball Bearing \emptyset 10x \emptyset 19x5mm.
[HC435-S]	[HC438-S]	[HC529-S]	[HC545-S]	[HC573-S]	[HC576-S]
		000			
- 2 x Thrust Bearing \emptyset 5x \emptyset 10x4mm.	- 2 x Thrust Bearing \emptyset 10x \emptyset 18x5.5mm.	- 4 x O-ring 95 Shore.	- 10 x Head Cap Shoulder Screws M4x21.5mm.	- 4 x Rubber Pin M3 65 Shore.	- 10 x Flat Head Cap Screws M2.5x12mm.
[HC601-S]	GATES CIT3 27G SMUET	[HC602-S]		[HC609-S]	[HC688-S] - 5 x Shims Ø 10x Ø 16x0.2. - 5 x Shims Ø 2.1x Ø 16x0.1. - 5 x Shims Ø 8.1x Ø 10x0.1.
- 1 x Belt HTD 3M 276-19mm.	GATES GT3 276 3MGT GATES GT3 276 3MGT GATES GT3 276 3MGT	- 1 x Clutch OWB \emptyset 12x \emptyset 20x11mm.	 - 10 x Socket Head Cap Screws M3x25mm. 	- 10 x Button Head Cap Screws M2x6mm.	- 5 x Shims \emptyset 15.1x \emptyset 21x0.05. - 5 x Shims \emptyset 23x \emptyset 25.9x0.05.
[HC701-S]	[HC702-S]			[HC709-S]	[HC712-S]
00		עראד-אנוערערערערערערערערערערערערערערערער			
- 2 x Flanged Bearing $ otin{tabular}{l} & $	- 1 x Carbon Rod KIT.			- 10 x Flat Head Cap Screws M2.5x15mm.	- 10 x Countersunk Head Screws M3x8mm.

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The manual can be downloaded here





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Release 1.0 - October 2024

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