- Carefully check your model before each flight to ensure it is airworthy.
- Consider flying only in areas dedicated to the use of model helicopters.
- Check and inspect the flying area to ensure it is clear of people or obstacles.
- Rotor blades can rotate at very high speeds! Be aware of the danger they pose.
- Always keep the model at a safe distance from other pilots and spectators.
- Avoid maneuvers with trajectories towards a crowd.
- Always maintain a safe distance from the model.
The Goblin is a high performance radio controlled helicopter. The design is original, moving away from traditional schemes, searching rationality for simplicity. Our goal was to create a simple, high performance helicopter, with a minimum of mechanical components, and simple maintenance. Please read this user manual carefully, it contains instructions for the correct assembly of the model. Please refer to the web site www.goblin-helicopter.com for updates and other important information.

Very Important:

Inside Box 4, you will find Bag 9 with a red label. This bag contains your serial number tag. Please take a moment to register your kit online via our web site at:

http://www.goblin-helicopter.com/

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

To mount the serial number tag on your helicopter, please refer to page 25.

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

SAB Heli Division

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Chapter 08 – Assembling The Modules
Chapter 09 – Installation Of The Motor
Chapter 10 – Installation of The ESC
Chapter 11 – Installation Of The FBL and Bec
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Chapter 14 – Battery
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SPECIFICATIONS

- Main rotor diameter: 1228mm (with 540mm blades)
- Main blade length: 540mm (up to 540 mm)
- Tail rotor diameter: 278mm
- Tail blade length: 104mm
- Weight including standard electronics: 2620g (excluding batteries).
- Maximum motor size: diameter 52mm, height 56mm
- Battery compartment:
  * 6S–5000/5500 mAh : Max dimension 50x60x200mm.
  * 12S–2600/3300 mAh : Max dimension 50x45x280mm.
IMPORTANT NOTES

* This radio controlled helicopter is not a toy.
* This radio controlled helicopter can be very dangerous.
* This radio controlled helicopter is a technically complex device which has to be built and handled very carefully.
* This radio controlled helicopter must be built following these instructions. This manual provides the necessary information to correctly assemble the model. It is necessary to carefully follow all the instructions.
* Inexperienced pilots must be monitored by expert pilots.
* All operators must wear safety glasses and take appropriate safety precautions.
* A radio controlled helicopter must only be used in open spaces without obstacles, and far enough from people to minimize the possibility of accidents or of injury to property or persons.
* A radio controlled helicopter can behave in an unexpected manner, causing loss of control of the model, making it very dangerous.
* Lack of care with assembly or maintenance can result in an unreliable and dangerous model.

* Neither SAB Heli Division nor its agents have any control over the assembly, maintenance and use of this product. Therefore, no responsibility can be traced back to the manufacturer. You hereby agree to release SAB Heli Division from any responsibility or liability arising from the use of this product.

SAFETY GUIDELINES

* Fly only in areas dedicated to the use of model helicopters.
* Follow all control procedures for the radio frequency system.
* It is necessary that you know your radio system well. Check all functions of the transmitter before every flight.
* The blades of the model rotate at a very high speed; be aware of the danger they pose and the damage they may cause.
* Never fly in the vicinity of other people.

NOTES FOR ASSEMBLY

Please refer to this manual for assembly instructions for this model. Follow the order of assembly indicated. The instructions are divided into chapters, which are structured in a way that each step is based on the work done in the previous step. Changing the order of assembly may result in additional or unnecessary steps.

Use thread lockers and retaining compounds as indicated. In general, each bolt or screw that engages with a metal part requires thread lock.

It is necessary to pay attention to the symbols listed below:

Important

Bag xx Indicates that for this assembly phase you need materials that are in bag xx.

Use retaining compound (eg Loctite 648)

Use retaining compound (eg Loctite 243)

Use CA Glue

Use Proper Lubricant
### ADDITIONAL COMPONENTS REQUIRED

* **Electric Motor:** 6S–1000/1400 Kv, 12S–500/700 Kv
  - Maximum diameter 52mm, maximum height 56mm, pinion shaft diameter 5 - 6mm
* **Speed controller:** 6S minimum 100A, 12S minimum 80A
* **Batteries:** 6S–5000/5500 mAh, 12S–2600/3300 mAh
* **1 flybarless 3 axis control unit**
* **Radio power system, if not integrated with the ESC**
* **3 cyclic servos**
* **1 tail rotor servo**
* **6 channel radio control system on 2.4 GHz**

### TOOLS, LUBRICANTS, ADHESIVES

* **Generic pliers**
* **Hexagonal driver, size 1.5, 2, 2.5, 3, 4 mm**
* **4mm T-Wrench**
* **5.5mm Socket wrench (for M3 nuts)**
* **7mm Hex fork wrench (for M4 nuts)**
* **Medium threadlocker (eg. Loctite 243)**
* **Strong retaining compound (eg. Loctite 648)**
* **Spray lubricant (eg. Try-Flow Oil)**
* **Synthetic grease (eg. Tri-Flow Synthetic Grease)**
* **Grease (eg. Vaseline Grease)**
* **Cyanoacrylate adhesive**
* **Pitch Gauge (for set-up)**
* **Soldering equipment (for motor wiring)**

---

**Inside the box:**

- **Box 1:** Canopy, Bag 1-A, Bag 1-B, Bag 1-C and Blade Holder.
- **Box 2:** Optional Combo Components
- **Box 3:** Mechanical Parts in 3 trays:
  - Tray 1: Head parts
  - Tray 2: Main structure
  - Tray 3: Transmission parts
- **Box 4:** Bags
- **Box 5:** Blades, Tail Blades, Boom, Carbon Rod

The assembly process is described in the following chapters. Each chapter provides you with the box, bag and/or foam tray numbers you will need for that chapter. The information is printed in a red box in the upper right hand corner of the page at the beginning of every chapter.
The manufacturing process of the carbon parts often leaves micro-burrs and sharp edges. We recommend de-burring the edges to minimize the risks of electrical wire cuts, etc. Very Important in red line zone.
By using these screws you make landing gear stronger. However in case of hard crash you can damage the main frame. Without using screws that landing gear is a breaking point that avoid main frame damage.
Chapter 5, Transmission Assembly

Tray 2, Tray 3, Bag 2.1

Washer Ø 10x Ø 16x0.1mm (HC234-S)
Tighten the three screw M3. After tightening, check the axial play of the main shaft. It is possible to reduce any axial play by adding shims.

IMPORTANT: Very carefully check to make sure you can turn the main shaft freely. If you feel too much friction, you have used too many shims, you can remove a shim until the shaft turns freely.
60T Pulley Assembly

Already assembled

Bearing Ø 10x Ø 15x4mm (HC420-S)

One Way Bearing Ø 10x Ø 14x12mm (HC442-S)

60T Pulley (H0295-S)

Bearing Ø 10x Ø 15x4mm (HC420-S)

Socket Head Cap Screw M2.5x6mm (HC018-S)

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

Finishing Washer M2.5 (H0255-S)

Sensor Support (H0224-S)

Swashplate Anti-Rotation Guide (H0401-S)

Front Tail Pulley

Already assembled

28T Front Tail Pulley (H0304-S)

28T Front Tail Pulley (HC033-S)

Washer Ø 10x Ø 16x0.1mm (HC234-S) (Use additional shims to remove any axial play)

60T Pulley Assembly

Tri-Flow

Vaseline

Socket Head Cap Screw Shoudered M2.5x19mm (HC033-S)
Note:
To maximize space for the batteries, it is advisable to shorten the motor shaft. Follow the dimensions given in this drawing. For the cut, you can use an electric tool like a “Dremel” with a cut-off disc. Additionally, ensure the motor shaft has an appropriate ‘flat’ for one of the set screws.
Chapter 6, Main Rotor Assembly

**Tray 1, Bag 4**

**Radius Arm Assembly**... x 2
- Flanged Bearing \( \phi 3x \phi 7x3mm \) (HC402-S)
- Radius Arm (H0474-S)
- Spacer (H0134-S)
- Flanged Bearing \( \phi 3x \phi 7x3mm \) (HC402-S)

**Center Hub Assembly**
- Pin 4 mm (H0472-S)
- Spacer Arm (H0416-S)
- Flanged Bearing \( \phi 2.5x \phi 6x2.5mm \) (HC400-S)
- Radius Arm Assembly
- Socket Head Cap Screw M2.5x8mm (HC022-S)
- Socket Head Cap Screw M3x16mm (HC068-S)

**Main Blade Grip Assembly**... x2
- Main Blade Grip (H0202-S)
- Blade Grip Arm (H0203-S)
- Bearing \( \phi 8x \phi 14x4mm \) (HC417-S)
- Washer \( \phi 11x \phi 13.8x0.5mm \) (H0226-S)
- Washer \( \phi 6x \phi 12x1mm \) (HC193-S)
- Button Head Cap Screw M6x10mm (HC122-S)

**Linkage Rod A Assembly**... x3
- Plastic Ball Link (H0066-S)
- Linkage Rod M2.5x33mm (H0237-S)

**Note:** Please add thread locker to the M6x10 screws

**Approx. 62.5mm**

(Initial length for the rods from the swashplate to the Blade Grip.)
Tail Servo Assembly

The distance between the center of the horn and the ball should be between 15-18 mm.

Note: Using Loctite in all 8 screws

Chapter 7, Installation Of Servos

Tray 2, Bags 5.1, 5.2
Installation Of The Swashplate Servos

The distance between the center of the horn and the ball should be between 16-18 mm (Figure 1). Select the carbon fiber servo mount that is suitable for the size of servos to be used (Figure 2).

Servo Mounting

The servo linkages must be aligned correctly. In order to do this, you must choose from one of the options shown here. Figure 3 shows the installation of the servos at 120 degrees. Note that the distance between the carbon fiber servo mount and the center of the ball should be 18.5mm. Figure 4 shows 4 different mounting options, the distance “X” should be as close as possible to 18.5mm.

Final Servo Assembly

Note: Chamfer Outside In Carbon Parts

Socket Head Cap Screw M2.5x8mm (HC020-S)
**Preliminary Head Setup**

Adjust the linkages as shown. You can change the tracking without disconnecting the plastic ball links by inserting a small tool through the rod hole and turning it.

**Linkage Rod A Assembly . . . .x2**

Approx. 62.5mm

Left Thread
Right Thread

Plastic Ball Link (H0066-S)
Linkage Rod M2.5x33mm (H0237-S)

(Initial length for the rods from the swash plate to the Blade Grip.)

**Linkage Rod B Assembly . . . .x3**

Approx. 44mm

Plastic Ball Link (H0066-S)
Set Screw M2.5x15mm (HC146-S)

(Initial length for the rods from the servos to the swash plate.)
TRANSMISSION SETUP

It is important to choose the right reduction ratio to maximize efficiency based on your required flight performance. The Goblin has many possible reduction ratios at your disposal. It is possible to optimize any motor and battery combination. It is recommended to use wiring and connector 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 206 teeth for 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:

<table>
<thead>
<tr>
<th>Motor</th>
<th>Pinion = ratio</th>
<th>ESC</th>
<th>Pinion</th>
<th>RPM Max</th>
<th>Pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kontronik Pyro</td>
<td>12.9:1</td>
<td>EDGE 130</td>
<td>23T / 24T</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4125-1100</td>
<td>12.2:1</td>
<td>Jive 100LV</td>
<td>22T / 23T</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantum</td>
<td>11.5:1</td>
<td>EDGE 130</td>
<td>22T / 23T</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKIII4025-1100</td>
<td>10.9:1</td>
<td>Jive 100LV</td>
<td>21T / 22T</td>
<td></td>
<td></td>
</tr>
<tr>
<td>X-NOVA</td>
<td>8.5:1</td>
<td>EDGE 130</td>
<td>22T / 23T</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4025-560</td>
<td></td>
<td>Jive 100LV</td>
<td>21T / 22T</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Some example configurations:

### GOBLIN 570 KSE CONFIGURATIONS

<table>
<thead>
<tr>
<th>Performance</th>
<th>Battery</th>
<th>Motor</th>
<th>ESC</th>
<th>Pinion</th>
<th>RPM Max</th>
<th>Pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td>General and 3D (5000 / 5500)</td>
<td>Kontronik Pyro 650-1030</td>
<td>EDGE 130</td>
<td>23T / 24T</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantum 4125-1100</td>
<td>EDGE 130</td>
<td>22T / 23T</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Scorpion HKIII4025-1100</td>
<td>Jive 100LV</td>
<td>21T / 22T</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>X-NOVA 4025-1120</td>
<td>EDGE 130</td>
<td>22T / 23T</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kontronik Pyro 650-1030</td>
<td>EDGE 130</td>
<td>22T / 24T</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantum 4125-560</td>
<td>EDGE 120 HV</td>
<td>22T / 23T / 24T</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Scorpion HKIII4025-550</td>
<td>Jive 120 HV</td>
<td>21T / 22T / 23T</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>X-NOVA 4025-560</td>
<td>EDGE 120 HV</td>
<td>2350 / 2450 / 2550</td>
<td>± 13</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kontronik Pyro 650-620</td>
<td>EDGE 80 HV</td>
<td>20T / 21T</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jive 80 HV 90 HV</td>
<td>Jive 120 HV</td>
<td>19T / 20T</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyro Competition 650-620</td>
<td>EDGE 120 HV</td>
<td>19T / 20T / 21T</td>
<td>2350 / 2450 / 2550</td>
<td>± 13</td>
<td></td>
</tr>
</tbody>
</table>

Note: Although the Goblin can fly at high RPM, for safety reasons we recommend not exceeding 2500 RPM.
Motor Belt Tension

- Install the motor and pulley to the motor mount plate.
- Place the motor assembly in position.
- Compress the springs by pushing the motor towards the main shaft.
- At max compression, tighten one of the slide screws temporarily.
- Put the belt around the motor pulley first, then put it around the big pulley.
- Rotate the motor a few times by hand to allow the belt to sit properly.
- Loosen up the slide screw; the springs will tension the belt.
- Help the springs by pulling the motor and tighten.
- The belt must be very tight.
- Make sure to tighten all screws and nuts.

Figure 1 shows the correct wiring for the motor. We recommend to use heat shrink in the joins between the motor and the ESC wires.

Check for proper vertical alignment of the motor pulley. Simply turn the motor several times by hand in the direction of normal rotation (counter clockwise when viewed from above) and check to see if the belt is aligned with the big pulley. If the belt is riding too high, simply loosen up the motor pulley and drop it a bit, if it is riding too low, loosen up the motor pulley and raise it a bit (Fig 2 - 3).
De-Burr The Side Frames
We recommend de-burring the edges of the carbon parts in areas where electrical wires run. See Page 4.

ESC Installation
The electronic speed control (ESC) is installed in the front part of the helicopter. You can easily fasten the ESC with cable ties as shown in figures 1 and 2. Take care of orient the closure of the ties as shown in Figure 3.

Figure 4: You can see the wiring for connecting the ESC to the central unit. Use cable ties to fasten the wires as indicated by the arrows.
Figure 5: Route the ESC throttle wire as shown, you can use hot glue to keep the wire in place.
Figure 6: You can install a BEC or Battery if required as shown.
FBL System Installation

We recommend the use of a one unit flybarless system, i.e. Mini vBar, Microbeast, etc. However, a two unit flybarless system can also be installed. For one unit systems, the unit is installed as shown in position 1. See Fig 1,2,3. Position 2 and 3 can be used for RX System. See Fig 4,5. Two unit FBL systems can be installed as follows: control unit in position 1 and sensor in position 4 or vice-versa. See Fig 5. To obtain the position 4 use H0313 [Bag 8.1].
**Tail Pitch Slider Assembly**

*Already assembled*

- Tail Pitch Slider 02
  - (H0233-S)
- Tail Pitch Slider 01
  - (H0233-S)
- Flanged Bearing
  - $\phi\ 7x\ 11x3\text{mm}$
  - (HC416-S)
- Tail Pitch Slider 03
  - (H0233-S)

**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.

---

**Tail Pitch Slider Link Assembly**

*Note: S >> Left Side*

- Tail Pitch Slider Link
  - (H0261-S)
- Socket Head Cap Screw M2x6mm
  - (HC004-S)

*Note: S >> Right Side*

- Tail Pitch Slider Link
  - (H0261-S)
- Socket Head Cap Screw M2x6mm
  - (HC004-S)
- Spacer $\phi 2x\ 3x3\text{mm}$
  - (H0076-S)

---

**Tail Rotor Hub Assembly**

- Oring
  - (HC334-S)
- Flanged Bearing
  - $\phi 7x\ 11x3\text{mm}$
  - (HC416-S)
- Tail Rotor Hub Assembly
  - (H0236-S)
- Tail Pitch Slider Assembly
  - (H0233-S)
- Tail Rotor Hub Assembly
  - (H0236-S)

---

**Note:**

- Larger ID
- Smaller ID
Chapter 13, Boom Assembly

**DETAIL A**

- Locking Element Tail Assembly (H0249-S)
- Double Sided Tape (HA022-S)

**DETAIL B**

- Install H0260-S On The Boom

Before mounting H0260 on the boom, we recommend to first tighten the M2.5 screw into the hole to open up the threads a bit. This will allow for easier installation.

**DETAIL C**

- Block Nylon Screws (H0296-S)
- Boom Block (H0298-S)
- Flat Head Cap Screws M3x8mm (HC134-S)
- Metric Hex Nylon Nut M3 (HC206-S)
- Double Sided Tape

---

**Tail Boom Assembly**

- Yellow/Orange Tail Boom (H0300-S)
- White Tail Boom (H0301-S)
- Approx 725mm
- R3

**Locking Element Tail Assembly ...x2**

- Locking Element Tail (H0249-S)
- Metric Hex Nylon Nut M3 (HC206-S)

**Note:**

15mm    15mm    7mm

---

**Socket Head Cap Screws M3x10mm (HC056-S)**

---

**Finishing**

- Washer M3 (H0007-S)
- Tail Push Rod Ø 4x Ø 2.5x668mm (HC240-S)

---

**Threaded Rod M2.5x40mm (HC242-S)**

---

**Socket Head Cap Screws M2.5x12mm (HC026-S)**

---

**Plastic Ball Link**

---

**Carbon Road Support**

---

**Bags 7.9, 7.10, 7.11**
Chapter 13, Boom Assembly

**Installation Of The Boom**

- Insert the boom in place helping enlarging the frame (Fig 1,2).
- Push the boom forward until the nylon bolts bottom out against the end of the slot on the boom.
- **Tighten the nylon bolts and only after tighten the two M3x10mm screws.**
- For additional safety, install the boom bolt safety lock (Fig 3)

**Tail Belt Tension**

- Make sure the boom is assembled and installed correctly.
- Loosen up the tail case by loosening the 4 M3 screws.
- Mount the tail belt on the front pulley making sure the direction of rotation is correct (Fig 4).
- Adjust the belt tension by pulling on the tail case.
- Tighten the 4 M3 screws.
- Check that the tail output shaft is perpendicular to the boom (Fig 5).
- Connect the tail push rod to the tail servo.
- Make sure the tail belt and carbon rod are free, check the belt to ensure it is not twisted.

**NOTE:** To remove the tail boom from the helicopter, it is possible to remove the front tail pulley H0304-S without having to loosen up the tail case. Simply remove the locking screw and pull.

**Fig. 1**

**Fig. 2**

**Fig. 3**

**Fig. 4**

**Fig. 5**
**Batteries**

* Follow the figure for assembly the battery. You can see 6S solution (fig 1,2,3,4) and 12S solution (fig 5,6,7,8).
* With 12S configuration, it is recommended to orient down the wires in the front battery (fig 7).
* Before permanently mounting the batteries onto the battery tray, check the ideal position for the best center of gravity.
* Before flight, make sure the battery is locked in place; the battery tray must be inside the slots on both sides!

* Battery 6S 5000/5500 mAh. Max dimension 50x60x200mm
* Battery 12S 2600/3300 mAh. Max dimension 50x45x280mm

---

**BATTERY 6S**

- Battery
- Double-Sided Adhesive Tape
- Battery Tray (H0311-S)

**BATTERY 12S**

- Battery
- Double-Sided Adhesive Tape
- Battery Tray (H0311-S)

---

*Battery Tray (H0311-S)*

*Double-Sided Adhesive Tape*
**CANOPY**

- The canopy touches the frames on the Goblin, this is normal and expected as it is part of the design. To avoid canopy damage due to high frequency vibration, it is necessary to attach the adhesive foam tape HA006 to the canopy. [Bag 8] (Fig 2).

- Install the canopy grommets [Bag 8] as shown in Figure 2.
- Assembly the Edge Protection with a little super glue. [HA112] Figure 3
- The canopy locks in the front as shown by the arrow in Figure 4 and in the rear by the canopy screws H0248-S [Tray 2] (Fig 1).
- The process of installing the canopy is facilitated following the Figure 5.

**Serial Number**

Serial Number Tag

In bag 9, you will find the serial number tag for your helicopter. Install the tag on the servo support plate as shown. Please remember to register your product. (See page 1)
Chapter 16, In Flight / Maintenance

Maintenance

*On the Goblin 570, some areas to look for wear include: - Motor belt    - Tail belt    - Dampers   - Main gear and pinion

*The lifespan of these components varies according to the type of flying. On average it is recommended to check these parts every 200 flights. In some instances, based on wear, these parts should be replaced every 100 flights.

*The most stressed bearings are definitely those on the tail shaft. Check them frequently. All other parts are not particularly subject to wear.

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

*Lubricate the main gear with Dry-Fluid or Tri-Flow Synthetic grease, even though the gear is made of technopolymer,a high mineral based filler, it still requires some lubrication.

*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 remain tight.

After a crash, please inspect all parts

TIPS:

To remove the dampeners, you can use a flathead screwdriver through the hole as shown.

Operations Before Flight

*Set up the transmitter and the flybarless system with utmost care.

*It is advisable to test and verify all the settings on the transmitter and flybarless system without the main or tail blades on initially.

*Check that all wiring is isolated from the carbon/aluminum parts. It is good practice to protect them in the areas 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 increased rpm. Although the Goblin can fly at high rpm, for safety reasons we suggest to not exceed 2500 rpm.

*Check the correct tension of the tail belt, use common sense; the belt should be tight enough.

*Fit the main blades and tail blades. (Fig.1 and Fig.2)

*Please make sure the main blades are tight on the blade grips, you should be able to violently jerk the head in both directions and the blades should not fold.

*Check the collective and cyclic pitch range. For 3D flight, set about +/- 12°-13°.

*It is important to check the correct tracking of the main blades.

*On the Goblin 570, in order to correct the tracking, adjust the main link rod. The threads are opposite, one side clock-wise and the other side counter clock-wise, this system allows for continuous fine adjustments of the length of the control rod; it is not necessary to detach any of the ball links.

*3 blades rotor head requires a much lower cyclic gain on flybarless systems. We recommend that you set your gain at least 30% lower than the gain you normally use on your 2 blade rotor head helicopters. You can start increasing the gain after you complete your first flight. Running too high of a gain can induce a violent oscillation that can potentially cause damage to your helicopter in flight.

*Perform the first flight at a lower head speed than normal, for example 2000 rpm. After this first flight, do a general check of the helicopter. Verify that all screws and bolts are correctly tightened.
Chapter 17, Exploded view, Carbon Frame

CARBON FRAME SYSTEM

<table>
<thead>
<tr>
<th>POS</th>
<th>CODE</th>
<th>NAME</th>
<th>SPECIFICATION</th>
<th>QUANTITY</th>
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### Swashplate Set

*H0475-S*

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### TAIL SYSTEM

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Chapter 17, Exploded view, Tail System
Chapter 18, Spare Parts

**Finishing Washer M3 [H0007-S]**
- 10 x Finishing Washer M3.

**Spacer Ø7 X Ø9 X 0.5 [H0062-S]**
- 4 x Spacer Ø7xØ9x0.5mm.

**Uniball Goblin M3Ø5H18 [H0063-S]**
- 2 x Uniball Goblin M3H18.

**Uniball Goblin M2Ø5H3.5 [H0064-S]**
- 5 x Uniball Goblin M2H3.5.

**Uniball Goblin M3Ø5H3.5 [H0065-S]**
- 5 x Uniball Goblin M3H3.5.

**Plastic Ball Linkages [H0066-S]**
- 10 x Plastic Ball Linkages.

**Carbon Servo Spacer [H0075-S]**
- 10 x Carbon Servo Spacer.

**Washer Ø3.1xØ12x1.8 [H0078-S]**
- 4 x Washer Ø3.1xØ12x1.8.

**Blade Grip Arm [H0203-S]**
- 2 x Main Blade Arm.
- 2 x Socket Head Cap Screw M3x8mm.
- 2 x Uniball M3Ø5H3.

**Bearing Support [H0207-S]**
- 1 x Bearing Support.
- 1 x Bearing Ø10xØ19x5.
- 3 x Socket Head Cap Screws M3x10mm.
- 2 x Washer Ø10xØ16x0.1.

**Servo Support [H0208-S]**
- 1 x Servo Support.
- 1 x Bearing Ø8xØ16x5mm.

**Main Structure [H0212-S]**
- 1 x Main Structure.
- 1 x Bearing Ø8xØ16x5mm.

**16T Pulley [H0215-16-S]**
- 1 x 16T Pulley.
- 1 x 16T Pulley.

**17T Pulley [H0215-17-S]**
- 1 x 17T Pulley.
- 2 x Set Screw M4x4mm.
- 1 x Bushing Ø5xØ6x18mm.

**18T Pulley [H0215-18-S]**
- 1 x 18T Pulley.
- 2 x Set Screw M4x4mm.
- 1 x Bushing Ø5xØ6x18mm.

**19T Pulley [H0215-19-S]**
- 1 x 19T Pulley.
- 2 x Set Screw M4x4mm.
- 1 x Bushing Ø5xØ6x18mm.

**20T Pulley [H0215-20-S]**
- 1 x 20T Pulley.
- 2 x Set Screw M4x4mm.
- 1 x Bushing Ø5xØ6x18mm.

**21T Pulley [H0215-21-S]**
- 1 x 21T Pulley.
- 2 x Set Screw M4x4mm.
- 1 x Bushing Ø5xØ6x18mm.

**22T Pulley [H0215-22-S]**
- 1 x 22T Pulley.
- 2 x Set Screw M4x4mm.
- 1 x Bushing Ø5xØ6x18mm.

**23T Pulley [H0215-23-S]**
- 1 x 23T Pulley.
- 2 x Set Screw M4x4mm.
- 1 x Bushing Ø5xØ6x18mm.

**24T Pulley [H0215-24-S]**
- 1 x 24T Pulley.
- 2 x Set Screw M4x4mm.
- 1 x Bushing Ø5xØ6x18mm.

**Spacer 26mm [H0216-S]**
- 3 x Spacer 26mm.

**Canopy Positioner [H0217-S]**
- 2 x Canopy Positioner.

**Tail Spindle [H0220-S]**
- 1 x Tail Spindle.
- 2 x Socket Head Cap Screw M3x6mm.

**Main Shaft [H0222-S]**
- 1 x Main Shaft.
- 2 x Metric Hex Nylon Nut M3X4.
- 1 x Socket Head Cap Shoulder M3x20mm.
- 1 x Socket Head Cap Shoulder M3x22mm.

**Spacer Main Shaft [H0223-S]**
- 1 x Spacer Main Shaft.
- 4 x Washer Ø10xØ16x0.1mm.

**Sensor Support [H0224-S]**
- 2 x Sensor Support.
- 1 x FBL Support.
- 2 x Socket Head Cap Screw M2.5x8mm.
Chapter 18, Spare Parts

**Bell Crank Support**
- Bell Crank Support [H0229-S]
- Tail Rotor Shaft [H0227-S]
  - 1 x Tail Rotor Shaft.
  - 1 x Set Screw M3x8mm.
  - 1 x Tail Hub.
- Bell Crank Support [H0229-S]
  - 1 x Bell Crank Support.
  - 2 x Socket Head Cap Screw M2x8mm.
  - 2 x Set Screw M3x8mm.
- Tail Pitch Slider [H0233-S]
  - 1 x Tail Pitch Slider 01.
  - 1 x Tail Pitch Slider 02.
  - 1 x Tail Pitch Slider 03.
  - 2 x Flanged Bearing Ø7x Ø11x3mm.
- Bell Crank Level [H0234-S]
  - 1 x Bell Crank level.
  - 2 x Tail Pin.
  - 2 x Flanged Bearing Ø2.5x Ø6x2.5mm.
  - 1 x Spacer Arm.
  - 1 x Cap Screws M2.5x18.
  - 1 x Uniball M3x 4 H5.

**Tail Blade Grip**
- Tail Blade Grip [H0236-S]
  - 2 x Tail Blade Grip.
  - 4 x Bearing Ø4xØ9x2.5mm.
  - 2 x Spacer Ø7x Ø9x0.5mm.
  - 2 x Socket Head Cap Screw M3x6mm.
  - 2 x Button Head Cap Screw M2x8mm.

**Linkage HPS**
- Linkage HPS [H0237-S]
  - 2 x Linkage Rod M2.5x33mm.
  - 4 x Linkage Ball Link.

**Spacer 54mm**
- Spacer 54mm [H0239-S]
  - 2 x Spacer 54mm.
  - 6 x Spacer 54mm.
  - 2 x Canopy Locking.

**Finishing Washer**
- Finishing Washer [H0255-S]
  - 10 x Finishing Washer M2.5.
  - 4 x Column.

**Battery Block**
- Battery Block [H0256-S]
  - 1 x Battery Block.
  - 1 x Socket Head Cap Screw M2.5x5mm.

**Tail Linkage**
- Tail Linkage [H0261-S]
  - 2 x Tail Linkage.
  - 2 x Spacer.
  - 2 x Socket Head Cap Screw M2.5x6mm.

**Column**
- Column [H0263-S]
  - 4 x Column.

**Spacer Ø4xØ18x1**
- Spacer Ø4xØ18x1 [H0265-S]
  - 2 x Tail Grip Link Bushing.
  - 2 x Spacer Ø4xØ7,50x0.5.
  - 2 x Spacer Ø8xØ12,5x0.5.
  - 2 x Spacer Ø11xØ13,8x0.5.
  - 2 x Spacer Arm 2,5x4x6,3.
  - 2 x Spacer Arm 2,5x4x3.

**Motor Support**
- Motor Support [H0291-S]
  - 1 x Motor Support.
  - 2 x Spring de 5 / df 0.3 / LL6.
  - 2 x Spring de 3 / df 0.5 / LL35.
  - 2 x Washer Ø4.3x Ø11x1mm.
  - 2 x Metric Hex Nylon Nut M4H5.
  - 2 x Socket Head Cap Screw M2.5x8mm.
  - 2 x Finishing Washer M2.5mm.
  - 2 x Set Screw M4x15mm.
  - 1 x Main Frame.

**Heavy Duty Pinion**
- Heavy Duty Pinion [H0292-S]
  - 1 x Heavy Duty Pinion.
  - 1 x Cap Screw M2.5x15mm.
  - 1 x Nut M2.5H3.5.
  - 1 x Washer Ø8x Ø14x0.2mm.

**Secondary Shaft**
- Secondary Shaft [H0294-S]
  - 1 x Secondary Shaft.
  - 1 x Cap Screw M2.5x15mm.
  - 1 x Cap Screw M2.5x19mm.
  - 1 x Nut M2.5H3.5.
  - 1 x Washer Ø8x Ø14x0.2.

**One Way Pulley**
- One Way Pulley [H0295-S]
  - 1 x One Way Pulley.
  - 1 x One Way Bearing Ø10x Ø14x12mm.
  - 2 x Bearing Ø10x Ø15x4mm.
  - 2 x Washer Ø10x Ø14x0.1mm.

**Block Nylon Screws**
- Block Nylon Screws [H0296-S]
  - 1 x Block Nylon Screws.
  - 1 x Flat Cap Screw M3x8.
  - 2 x Nylon Screws M8x14.

**Tail Side Plate**
- Tail Side Plate [H0297-S]
  - 1 x Tail Side Plate.

**CF Tail Boom Block**
- CF Tail Boom Block [H0298-S]
  - 2 x CF Tail Boom Block.
  - 2 x Nylon Nut M3.
  - 2 x Double Side Tape.
  - 2 x Cap Screw M3x10mm.
  - 2 x Washer Ø3.1x Ø12x1.8.
Chapter 18, Spare Parts

Yellow Tail Boom (Optional Scheme) [H0300-S]
- 1 x Yellow Tail Boom.
- 2 x Nylon Screw M8x14mm.
- 2 x Double Side Tape (HA022).
- 2 x Washer Φ3.1xΦ12x1.8mm.
- 2 x Locking Element Tail.
- 6 x Metric Hex Nylon Nut M3.
- 2 x Double Side Tape (HA028).
- 2 x Socket Head Cap Screw M3x10mm.

White Tail Boom (Optional Scheme) [H0301-S]
- 1 x White Tail Boom.
- 2 x Nylon Screw M8x14mm.
- 2 x Double Side Tape (HA022).
- 2 x Washer Φ3.1xΦ12x1.8mm.
- 2 x Locking Element Tail.
- 6 x Metric Hex Nylon Nut M3.
- 2 x Double Side Tape (HA028).
- 2 x Socket Head Cap Screw M3x10mm.

Yellow Canopy (Optional Scheme) [H0302-S]
- 1 x Yellow Canopy.
- 2 x Canopy Grommet.
- 1 x Canopy Mouse.
- 1 x Edge Protection.

White Canopy (Optional Scheme) [H0303-S]
- 1 x Orange Canopy.
- 2 x Canopy Grommet.
- 1 x Canopy Mouse.
- 1 x Edge Protection.

28T Front Tail Pulley [H0304-S]
- 1 x Front Tail Pulley.
- 1 x Socket Head Cap Shouldered M2.5x19mm.

21T Tail Pulley [H0305-S]
- 1 x Front Tail Pulley.
- 1 x Set Screws M3x8mm.

Landing Gear Mount Front [H0307-S]
- 1 x Landing Gear Mount Front.

Landing Gear Mount Rear [H0306-S]
- 1 x Landing Gear Mount Rear.

Carbon Servo Mount [H0308-S]
- 2 x Carbon Servo Mount.
- 6 x Socket Head Cap Screw M2.5x8mm.
- 2 x Locking Element Tail.
- 6 x Metric Hex Nylon Nut M3.
- 2 x Double Side Tape (HA028).
- 2 x Washer Φ3.1 x Φ12 x 1.8mm.
- 2 x Socket Head Cap Screw M3x10mm.

Carbon Electric Support [H0309-S]
- 1 x BEC/RX Support.
- 1 x Sensor Support.

Battery Tray [H0311-S]
- 2 x Battery Tray.
- 2 x Strap 20x440mm.
- 1 x Strap 25x540mm.

Battery Tray Support [H0312-S]
- 1 x Battery Tray Support A.
- 1 x Battery Tray Support B.

Plastic Landing Gear Support [H0350-S]
- 1 x Plastic Landing Gear Support.
- 2 x Socket Head Cap Screws M2.5x8mm.
- 2 x Finishing Washer M2.5.
- 2 x Metric Hex Nylon Nut M2.5.

CF Landing Gear [H0385-S]
- 2 x Carbon Fiber Landing Gear.
- 1 x Sticker Yellow.
- 1 x Sticker White.

Kit Landing Gear 500-570 [H0386-S]
- 2 x Plastic Landing Gear Support.
- 4 x Metric Hex Nylon Nut M2.5.
- 2 x Carbon Fiber Landing Gear.
- 1 x Sticker Yellow.
- 4 x Socket Head Cap.
- 1 x Sticker White.
- Screws M2.5x8mm.
- 4 x Finishing Washer M2.5.
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| **Servo Block**                   | H0392-S  
- 8 x Servo Block.   
- 8 x Servo Spacer.   
- 8 x Cap Screws M2.5x10. |
| **Tail Servo Mount**              | H0393-S  
- 1 x Tail Servo Mount.   
- 2 x Finishing Washer.   
- 2 x Cap Screws M2.5x8mm. |
| **Carbon Road Support**           | H0394-S  
- 1 x Carbon Road Support A.   
- 1 x Carbon Road Support B.   
- 1 x Socket Head Cap Screws M2.5x12mm. |
| **Anti-Rotation Guide**            | H0401-S  
- 1 x Anti-Rotation Guide.   
- 1 x Finishing Washer M2.5.   
- 1 x Cap Screws M2.5x8mm. |
| **CNC Derlin Main Gear**          | H0423-S  
- 1 x CNC Derlin Main Gear. |
| **Delrin Dampener**               | H0425-S  
- 2 x CNC Delrin Dampener.   
- 2 x Steel Spindle Shaft.   
- 2 x Steel Pin 4mm.   
- 4 x Head Cap Screw M2.5x5.   
- 2 x Button Screw M6x10.   
- 2 x Washer Ø8xØ10x0.5. |
| **Spindle**                       | H0471-S  
- 2 x Spindle.   
- 2 x Steel Spindle Shaft.   
- 2 x Steel Pin 4mm.   
- 4 x Head Cap Screw M2.5x5.   
- 2 x Button Screw M6x10.   
- 2 x Washer Ø8xØ10x0.5. |
| **Center Hub**                    | H0473-S  
- 1 x Center Hub.   
- 1 x Head Cap Screw M3x12.   
- 1 x Head Cap Screw M3x20.   
- 1 x Nylon Nut M3. |
| **Radius Arm HPS3**               | H0474-S  
- 1 x Radius Arm HPS3.   
- 2 x Aluminum Radius Arm.   
- 1 x Plastic Radius Arm.   
- 1 x Hexagon Spacer.   
- 2 x Brass Spacer Arm.   
- 2 x Head Cap Screw M3x12.   
- 2 x Head Cap Screw M2.5x8.   
- 2 x Flanged Bearing Ø2.5xØ6x2.5.   
- 4 x Flanged Bearing Ø3xØ7x3. |
| **SwashPlate**                    | H0475-S  
- 1 x Swashplate Assembly.   
- 1 x Uniball M3xØ5H18.   
- 6 x Uniball M3xØ5H3. |
| **MAIN BLADES G570 WHITE**        | 3BL540  
- 3 x Main Blades 540 White. |
| **TAIL BLADES 104 WHITE**         | BW5104  
- 2 x Tail Blades 104 White. |
| **Red/Carbon Canopy (Optional Scheme)** | H0928-S  
- 1 x Red/Carbon Canopy.   
- 2 x Canopy Grommet.   
- 1 x Canopy Mouse.   
- 1 x Edge Protection. |
| **Red/Carbon Tail Boom (Optional Scheme)** | H09033-S  
- 1 x Red/Carbon Tail Boom.   
- 2 x Nylon Screw M8x14mm.   
- 2 x Double Side Tape (HAO22).   
- 2 x Washer Ø3.1xØ12x1.8mm.   
- 2 x Locking Element Tail. |
| **Yellow/Carbon Canopy (Optional Scheme)** | H9038-S  
- 1 x Yellow/Carbon Canopy.   
- 2 x Canopy Grommet.   
- 1 x Canopy Mouse.   
- 1 x Edge Protection. |
| **Yellow/Carbon Tail Boom (Optional Scheme)** | H9043-S  
- 1 x Yellow/Carbon Tail Boom.   
- 2 x Nylon Screw M8x14mm.   
- 2 x Double Side Tape (HAO22).   
- 2 x Washer Ø3.1xØ12x1.8mm.   
- 2 x Locking Element Tail.   
- 2 x Socket Head Cap Screw M3x10mm. |

Note: All parts are from SAB Heli Division.
Chapter 18, Spare Parts

- 5 x Socket Head Cap Screws M2x5mm.
- 5 x Socket Head Cap Screws M2x6mm.
- 5 x Button Head Cap Screws M2x5mm.
- 5 x Button Head Cap Screws M2x8mm.
- 5 x Socket Head Cap Screws M2x12mm.
- 5 x Socket Head Cap Screws M2.5x6mm.
- 5 x Socket Head Cap Screws M2.5x8mm.
- 2 x Socket Head Cap Shouldereds M3x16.
- 2 x Metric Hex Nylon Nuts M3H4.
- 5 x Set Screws M3x8mm.
- 5 x Set Screws M3x10mm.
- 5 x Set Screws M3x15mm.
- 5 x Set Screws 4x4mm.
- 5 x Set Screws 4x15mm.
- 4 x Vite Nylon Esa Caps M8x14mm.
- 10 x Washers Ø2.5xØ4x0.3mm.
- 5 x Washers Ø4.3xØ11x1mm.
- 10 x Washers Ø6.1xØ12x1mm.
- 10 x Metric Hex Nylon Nuts M2.5H3.5.
- 10 x Metric Hex Nylon Nuts M3H4.
- 10 x Metric Hex Nylon Nuts M4 H5.
- 4 x Shim Washers Ø8xØ14x0.2mm.
- 5 x Shims Washer Ø10xØ16x0.1mm.
- 1 x Carbon Rod Ø2.5 x Ø4 x668mm.
- 2 x Plastic Ball Links.
- 2 x Threaded Rods M2.5x40mm.
Chapter 18, Spare Parts

**UPGRADES and ACCESSORIES**

**SAB Goblin 500/570 Carry Bag - Green** [HM046-S]
- 1 x Carry Bag

**Quick Release Canopy Mount** [H0321-S]
- 2 x Quick Release Canopy
- 2 x Flat Head Cap Screws M3x8mm.
- 2 x Canopy Grommet.

**Motor Mount Cooling** [H0398-S]
- 1 x Motor Mount Cooling.
- 2 x Spring de 5 / df 0.3 / LL35.
- 2 x Heading 3 / df 0.53 / LL35.
- 2 x Washer Ø4.3xØ11x1mm.
- 2 x Metrix Hex Nylon Nut M4H5.
- 2 x Socket Head Cap M2.5x8mm.
- 2 x Finishing Washer M2.5mm.
- 2 x Set Screw M4x15mm.

**SAB HELI DIVISION**
**Black Hoodies** [HM025-S-M-L-XL-XXL]
- SAB HELI DIVISION
  New Black T-shirt
**SAB HELI DIVISION**
**Black Polo Shirt** [HM027-S-M-L-XL-XXL]
- SAB HELI DIVISION
  New Black T-shirt
- 1 x Neck Strap.
- 1 x Neck Strap.
- 1 x SAB HELI DIVISION Decal (set).

**SAB HELI DIVISION**
**Black Hoodies** [HM029-S-M-L-XL-XXL]
**Black Polo Shirt** [HM027-S-M-L-XL-XXL]

**Aluminum Servo Support** [H0397-S]
- 2 x Aluminum Servo Support.
- 6 x Socket Head Cap Screws M2.5x8mm.

**Motor Mount for helps the motor cooling.**

**Belt Tensioner**
- 1 x Belt Tensioner 01.
- 1 x Belt Tensioner 02.
- 1 x Belt Tensioner 03.
- 2 x Flanged Bearing Ø3x7x3mm.
- 2 x Socket Head Cap Screws M2.5x8mm.
- 2 x Metrix Hex Nylon Nut M2.5.
- 2 x Socket Head Cap Screws Shoudered M3x16mm.

**SAB HELI DIVISION**
**Decal** [HM035]
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