HPS3 ROTOR HEAD [H0640-K]
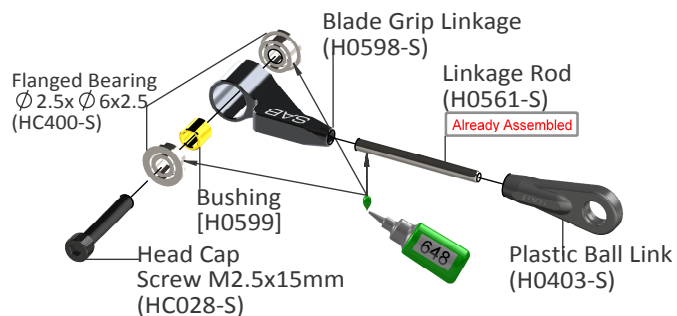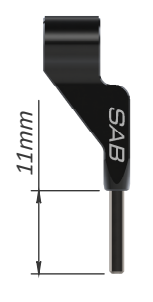
Please read this user manual carefully, it contains instructions for the correct assembly of the KIT.
Please refer to the website www.goblin-helicopter.com for updates and other important information. Thanks You.
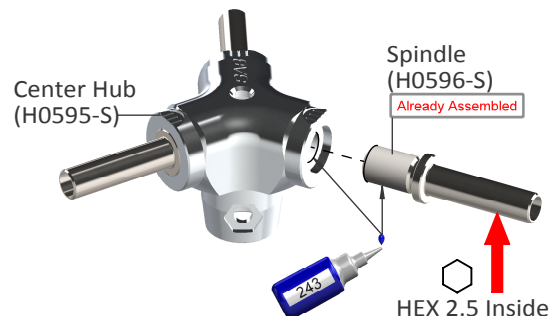
Blade Grip Linkage Assembly

Flanged Bearing
⌀ 2.5x ⌀ 6x2.5
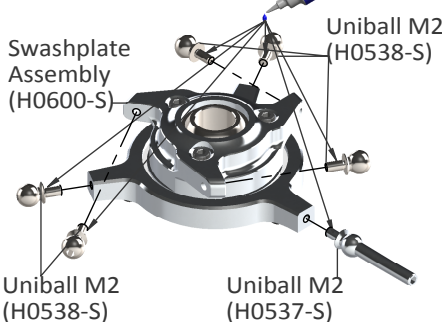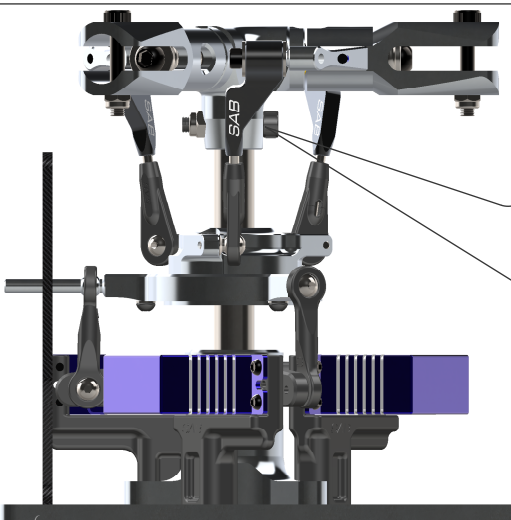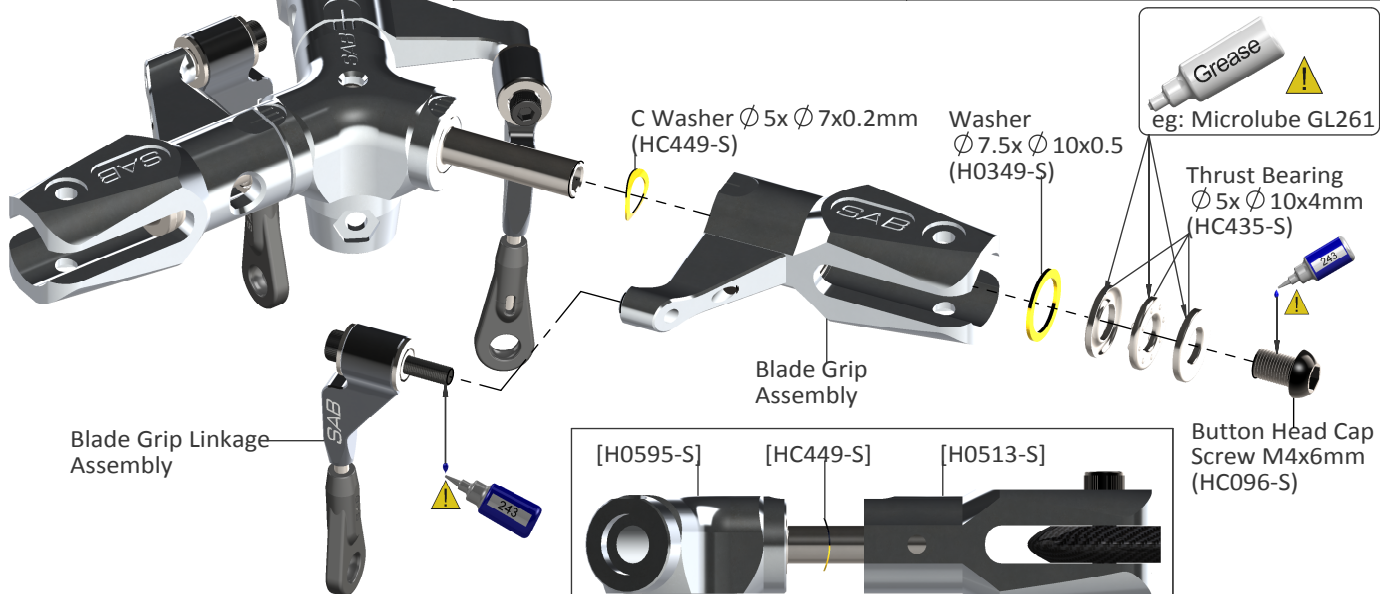(HC400-S)

Blade Grip Linkage
(H0598-S)

Linkage Rod
(H0561-S)
Already Assembled

Bushing
[H0599]

Head Cap
Screw M2.5x15mm
(HC028-S)

648

Plastic Ball Link
(H0403-S)

Note

11mm

Center Hub Assembly

Center Hub
(H0595-S)

Spindle
(H0596-S)
Already Assembled

243

HEX 2.5 Inside

Head Cap Screws
Shoulder M3x18
(HC079-S)

Nylon Nut M3
(HC206-S)

Swashplate Assembly

Swashplate
Assembly
(H0600-S)

243

Uniball M2
(H0538-S)

Uniball M2
(H0538-S)

Uniball M2
(H0537-S)

Blade Grip Assembly

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

Main Blade Grip
(H0513-S)

648

Bearing
⌀ 5x ⌀ 10x4mm
(HC411-S)
Already Assembled

Bearing
⌀ 5x ⌀ 10x4mm
(HC411-S)

Blade Grip Arm
(H0597-S)

C Washer ⌀ 5x ⌀ 7x0.2mm
(HC449-S)

Washer
⌀ 7.5x ⌀ 10x0.5
(H0349-S)

Grease
eg: Microlube GL261

Thrust Bearing
⌀ 5x ⌀ 10x4mm
(HC435-S)

243

Blade Grip
Assembly

Blade Grip Linkage
Assembly

243

Button Head Cap
Screw M4x6mm
(HC096-S)

[H0595-S]   [HC449-S]   [H0513-S]

Nylon Nut M3
(HC206-S)

Head Cap Screws
Shoulder M3x16mm
(HC074-S)

Linkage Rod A Assembly x3

Approx 45 mm

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

SAB HELI DIVISION

ABOUT HPS3

For safety reasons we suggest to not exceed 3400 rpm. ⚠️

In addition, we recommend using a smaller tail pulley in order to increase the tail rotor speed to counteract the additional torque introduced by the 3rd rotor blade. You will find a 20T tail rotor pulley in the kit for this purpose.

RECOMMENDATIONS

These parts should be used only with models SAB Goblin 380.

- 3 blade rotor heads require 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.

- Please follow all the instructions shown in the Goblin main manual.
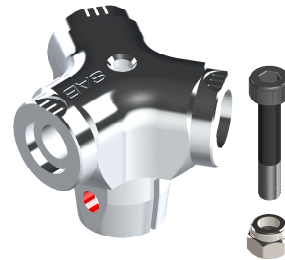 In this manual please read Chapter 2, Important notes

- Use Loctite on all threads.
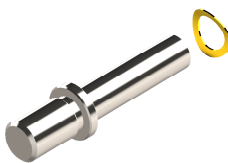
SPARE PARTS

Blade Grip
[H0513-S]

- 2 x Blade Grip.
- 2 x Thrust Bearing ⌀5x⌀10x4mm.
- 4 x Bearing ⌀5x⌀10x4mm.
- 2 x Washer ⌀7.5x⌀10x0.5mm.
- 2 x Button Head Socket Cap M4x6mm.
- 2 x Washer ⌀5x⌀7x0.1mm.
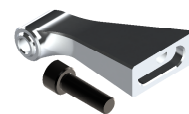
Center Hub
[H0595-S]

- 1 x Center Hub.
- 1 x Socket Head Cap Screw Shouldered M3x16mm.
- 1 x Metric Hex Nylon Nut M3.

Spindle Shaft
[H0596-S]

- 1 x Spindle Shaft.
- 1 x C Washer ⌀5x⌀5x0.2mm.
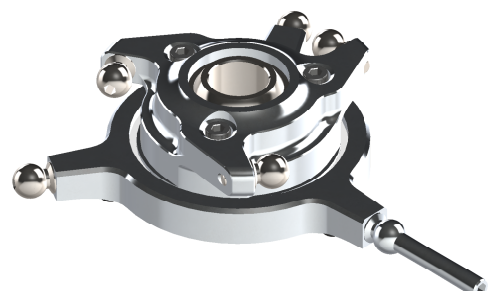
Blade Grip Arm
[H0597-S]

- 1 x Blade Grip Arm.
- 1 x Socket Head Cap Screw M2.5.x8mm.

Linkage
[H0598-S]

- 1 x Linkages.
- 1 x Linkage Rod.
- 1 x Bushing.
- 2 x Flanged Bearings ⌀2.5x⌀6x2.5mm.

Swashplate
[H0600-S]

- 1 x Swashplate Assembly.
- 5 x UniBall M2 ⌀4.7H3.
- 1 x UniBall M2 ⌀4.7H20.