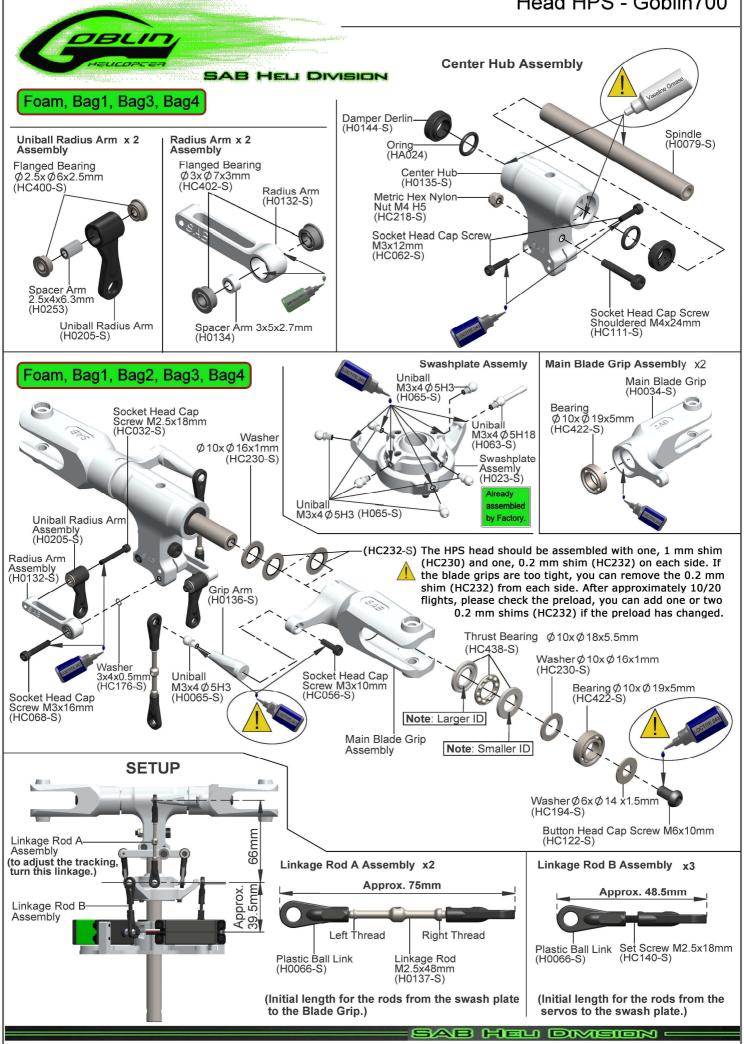
Head HPS - Goblin700





Spare Parts



- [H0034-S]

Blade Grip

- 1 x Blade Grip. - 2 x Bush Blade Grips. Spindle [H0079-S1



- 1 x Spindle
- 2 x Button Head Cap Screws M6x10mm.
- 2 x Washers Ø6x Ø14x1mm.



- -2 x Radius Arms.
- -2 x Radius Arms. -2 x Spacer Arm Ø3xØ5x2.7mm. -2 x Spacer Arm Ø2.5xØ4x6.3mm. -2 x Uniball Radius Arms. -2 x Socket Head Cap
- Screws M3x16mm
- -2 x Socket Head Cap Screws M2.5x18mm.
- Washers $\emptyset 3x \emptyset 4x0.5mm$.
- 4 x Flanged Bearings Ø2.5x Ø6x2.5mm. 4 x Flanged Bearings
- Ø3xØ7x3mm



- -1 x Center Hub.
- -2 x Socket Head Cap Screws M3x12mm.
- -1 x Socket Head Cap Screw Shouldered M4x24mm. -1 x Metric Hex Nylon Nut M4 H5



- -2 x Blade Grip Arms. -2 x Uniballs M3x4 Ø5H3. -2 x Socket Head Cap Screws M3x10mm.

Linkage [H0137-S]



Damper Derlin [H0144-S]

- -2 x Damper Derlin. -2 x Washers Ø 10x Ø 16x1mm. -4 x Washers Ø 10x Ø 16x0.2mm. -4 x Orings 3050.



Section B

About HPS

-2 x Linkages M2 5x48mm -4 x Plastic Ball Links.

HPS stands for "High Precision System". This head has been developed in order to increase the usable rotor RPM range without having to change the rigidity of the dampening system.

The new head is developed specially to limit the teetering effect of the spindle by means of dampening achieved by a special technopolymer material.

The maximum teetering amount can be adjusted based on the amount of play shown in figure "A" of the drawing. The O-ring is necessary to create a radial and axial preload. The preload can be kept relatively low, thanks to the mechanical locking properties of the technopolymer dampeners.

With this solution, finding the correct preload is less complex.

This solution is safer because there is a physical "stop" of the teetering effect with the technopolymer dampers, also with low axial preload.

The change of preload will serve exclusively to customize the response of the model.

Furthermore, the spindle can only move vertically thanks to the elongated hole shown in section "B" of the drawing.

This solution allows an optimal control of the geometry even when large amounts of torque are introduced into the system.

The head is very accurate and reliable.

play O-ring

Figure A

0 (0)

Recommendations

- These parts should be used only with models SAB Goblin
- Please follow all the instructions shown in the Goblin main manual. In this manual please read Chapther 2, Important notes
- Use Loctite on all threads.
- Put a small amount of grease inside the hub and the O-Ring.
- Check for axial play of the spindle at least after the first flights.
- Firmly tighten the blades before flight.

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