Manual for Blade Exchange at Propeller H60A

Propellertyp:

Propeller Nr.:

Datum des Verkaufs:

Stempel, Unterschrift:
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1  List of Changes

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2 Description

In case that propeller blades were damaged it is possible to open the propeller hub and replace the old blades with new ones.

Photo 1: 3-blade propeller of H60A type

Step 1 Dismount Propeller from Aircraft

- Remove the spinner main plate
- Remove center push-pull-rod and leave the fork remaining in the center part
- Place the propeller on a wide flat table
Step 2  Disassemble the Adjusting Mechanic

- Dismount M6 x 25 bolt that connects the adjusting-support and push-pull-rod

- Dismount M6 x 30 bolt that connects the blade-support and push-pull-rod

- Pay attention to the sequence and direction of conical washers, and recover them to their original positions

- Take out the movable center-part

- Dismount the two M6 x 50 bolts that connect the adjusting support and blade root
- Take out the aluminum tubes

- Dismount the M8 x 65 bolts on front side

- Dismount the M6 x 60 bolts on back side

**Step 3  Open the Hub**

- Install the “Springwasher-tightening-Bolt” M8 x 55 with washers into the center (this can be tricky) (if not used, the clamping forces will prevent easy opening of the hub)
- Tighten the bolt by spinning the blade strongly (25Nm) (grease must be on the thread of the bolt). Same procedure at all blades

- Install two M8 x 120 bolts 15 mm deep in thread. They should come out for a longer distance at front side

- Lay propeller hub on the corpus-side and hammer softly on the M8 x 120 bolts to open the hub

- Take out the blades
Step 4  Dismount Bearing

- Remove the “Springwasher-tighting-Bolt” M8 x 55

- Take away the axial bearing assembly

- Remove grease and cover main bearing with tape

- Clamp the blade into bench vice to fix it properly
- Use two flat screwdrivers symmetrical to take out the one remaining ring of the bearing

- Finished

3 Assembling

- Follow the same procedure as previous in opposite sequence

- Secure M6 and M8 bolts with Loctite 221 or stronger

- Replace self-locking M6 nuts with new ones
4 Delivered Parts for Exchange

- “Springwasher-tighting-Bolt” M8 x 55