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ISO 9001:2008 Certified Company
for its Quality System Management

ADAPTOR SPACER ASSEMBLY INSTRUCTIONS
ROTAX 912 type

WARNING

Make sure the ignition is turned off before starting any type of work on the propeller.
Do not run the engine without propeller, engine damage will result.

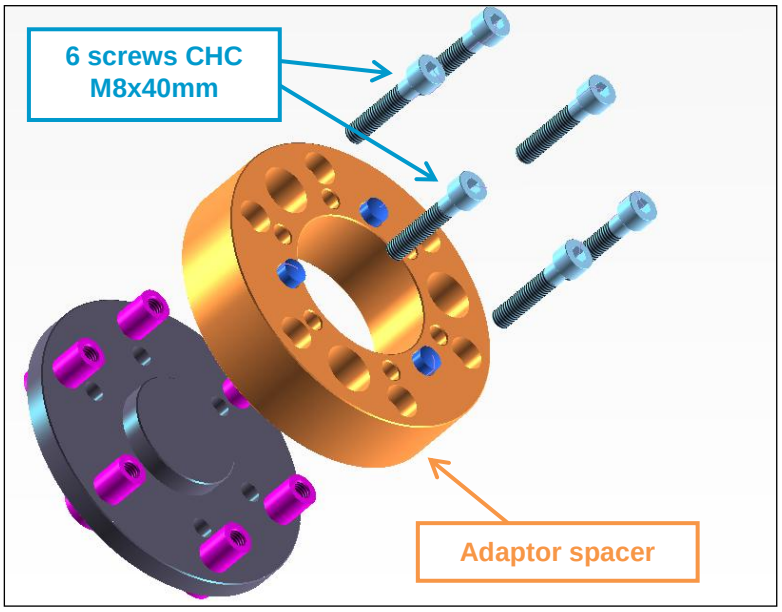
1. Assembly of the adaptor spacer 912/912H with DUC spinner and its mounting plate

This manual is applicable in the case of mounting on a Rotax 912 propeller shaft older generation (adaptor spacer 912), a new generation propeller shaft (adaptor spacer 912H) and for higher spacer thicknesses or equal to 30mm.

Only the diameter of the indexing paws and their diameter are different:

- ROTAX 912 old generation: **6 indexing paws Ø12mm on Ø100mm** **Adaptation 912**
- ROTAX 912 new generation: **6 indexing paws Ø13mm on Ø101.6mm** **Adaptation 912H**

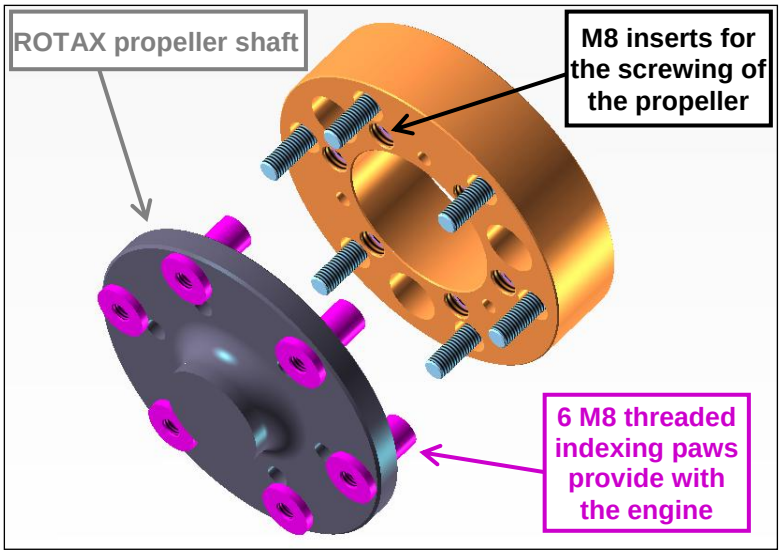
1.1. Operation 1: FIXING OF THE ADAPTOR SPACER



The adaptor spacer 912 and 912H is available in different lengths:

912
- 10mm ref. 01-58-104 *(different assembly)*
- 30mm ref. 01-58-101
- 50mm ref. 01-58-110

912H
- 10mm ref. 01-58-103 *(different assembly)*
- 30mm ref. 01-58-102
- 50mm ref. 01-58-108
- 60mm ref. 01-58-121
- 80mm ref. 01-58-115

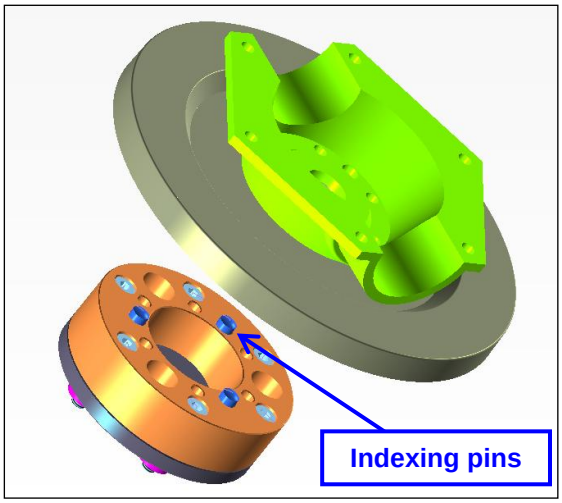


- Present the **adaptor spacer** to fit on the **propeller shaft**.
- Check that the **6 M8 threaded indexing paws** are present.

  Indexing paws diameter: Ø12 or 13 mm
- Tighten the spacer on the propeller shaft with **6 screws CHC M8x40** at torque of 25 Nm.

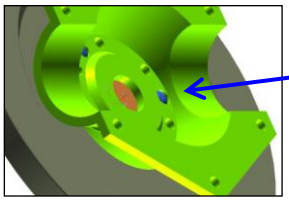
TIGHTENING TORQUE
2.5 Kg/m
25 Nm

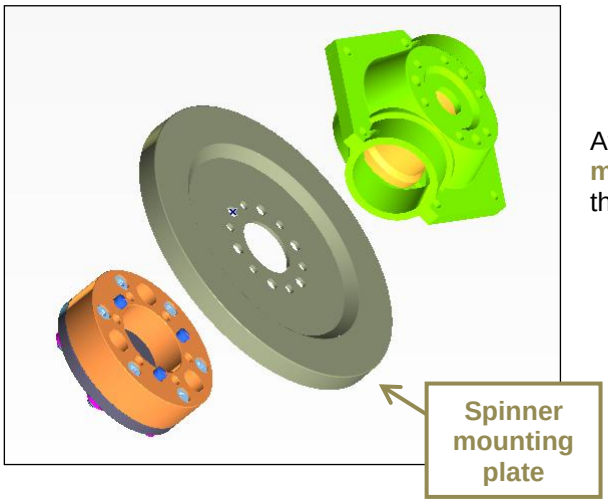
1.2. Operation 2: FIXING OF THE SPINNER PLATE AND THE PROPELLER



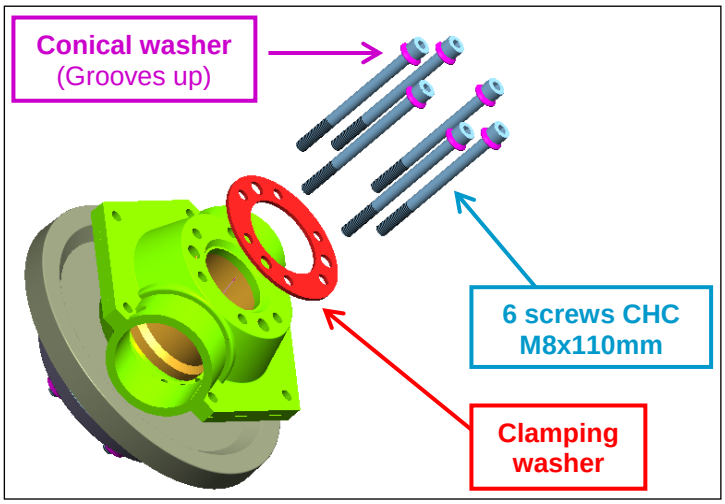
The **3 indexing pins Ø10 mm** have a height of about 12mm. These allow the indexing of the plate and propeller hub.

In the case of an assembly of a two-blade propeller, one of three pins has a height of 8mm to not be against the aluminum ring of the blade. So, please take care of the positioning of the propeller in the shorter pin.





After fixing of the **adaptor pacer** on the **propeller shaft**, make the **mounting plate** of the DUC spinner and the complete two-blade or three-blade propeller on the spacer.

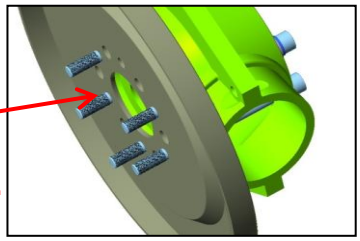


- Install and tighten the **6 screws CHC M8x110mm** with their **washers** through the **clamping washer** in the **M8 inserts** of the spacer with the correct tighten torque of 25 Nm.

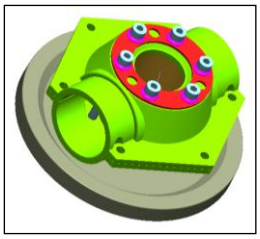
TIGHTEN TORQUE
2,5 Kg/m 25 N.m

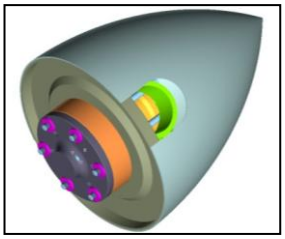
The peculiarity of these screws is that the smooth body is long enough to withstand the shear between the upper surface of adaptor spacer, the hub and the spinner plate.

Shearing surface on the smooth body of the 6 screws CHC M8x110 and not directly on thread M8.



1.3. Operation 3: FIXING OF THE SPINNER





Once the mounting of the plate and the hub done, assemble the DUC spinner on the mounting plate according the openings blades.

2. Assembly without DUC spinner mounting plate

In the cas of a propeller assembly without DUC spinner mounting plate or with another spinner plate, caution to check the high of the **pins** to secure a correct mounting.

Do a first placement of the elements to ensure that the **pins** go through the **mounting plate** and the hub.

For a two-blade propeller, be careful not to stumble against the blade foot ring.

In the case of an anomaly when positioning assembly, adjust the height of the pins using a mallet.

CAUTION

After a 1 hour operation following the installation or modification of the assembly, tighten again your propeller according the manual instructions.

PRECAUTIONS

If you notice any abnormal installation or operation, do not undertake the flight and immediately contact the DUC Hélices Company.

Being aware of potential risks during assembly and initial testing of the propeller.
Stay focused, attentive and vigilant to your surroundings. Recheck several points to be observed.
Maintaining high safety clearance during the set operation.

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