Chemin de la Madone
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NOTE OF ASSEMBLY

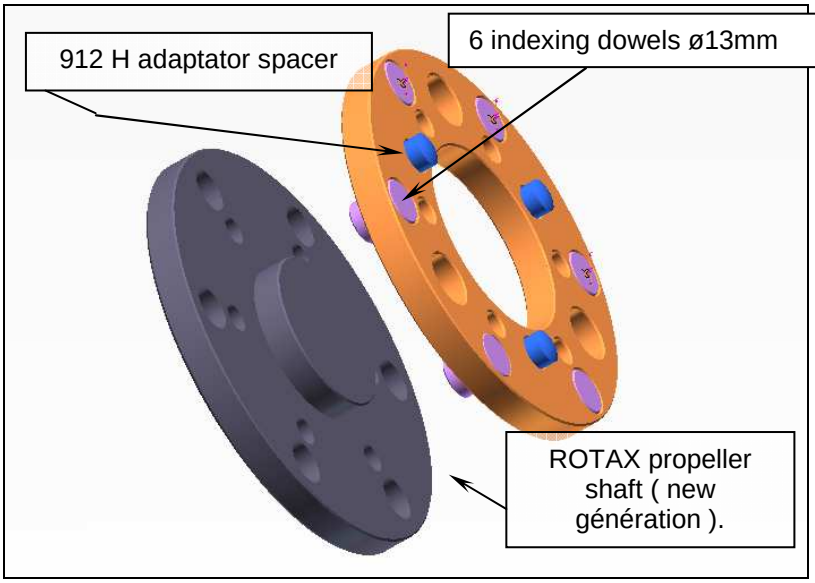
ADAPTATOR SPACER / SPINNER MOUNTING PLATE / DUC HUB on ROTAX 912 – 912S PROPELLER SHAFT new generation

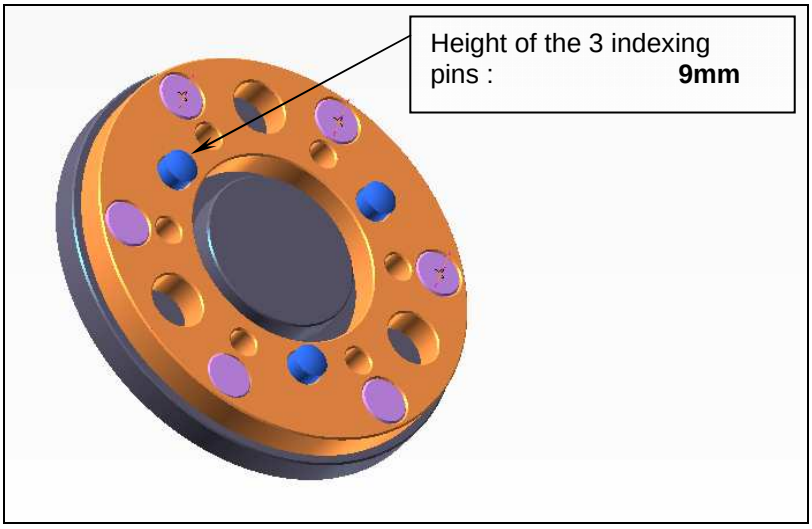
Note reference : *912H-A/10*

Assembly of the 912H adaptator spacer with DUC spinner

The ROTAX 912 propeller shaft, ***new generation***, presents 6 holes ø13mm with a distance between centers of ø101.6mm and 6 holes ø8mm with a distance between centers of ø75mm for attaching the hub.

Operation 1 : ***VERIFICATION OF THE ADAPTATOR SPACER.***





VERIFICATION :

- Check the height of the 3 pins ø10mm compared to the 912H adaptator spacer.

In the case of assembly with a DUC spinner mounting plate, the height of the pins is of :

9 mm

- Position the spacer by indexing the 6 dowels out of the 6 holes ø13mm of distance between centers ø101.6mm on the ROTAX propeller shaft (new generation).
- Position to the mounting plate of the DUC spinner with the ½ lower hub indexed on the ø10mm pins.

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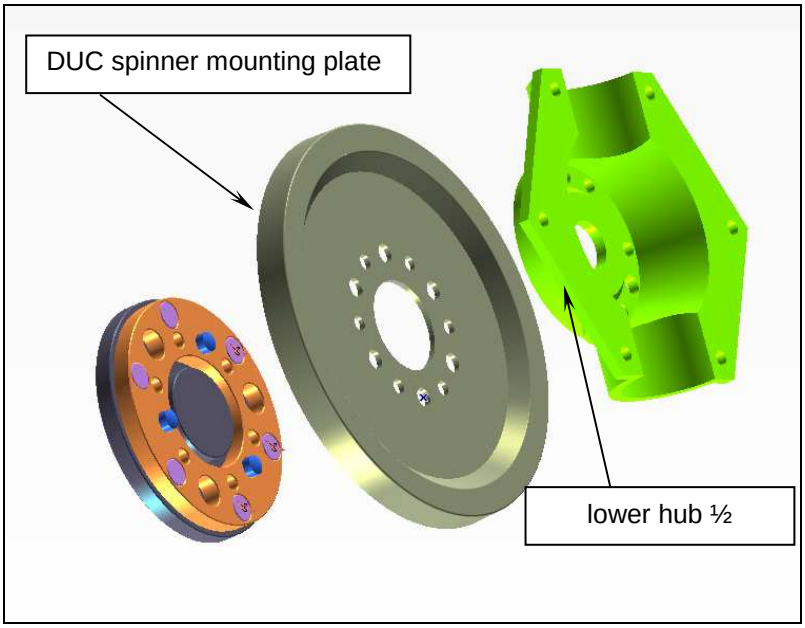
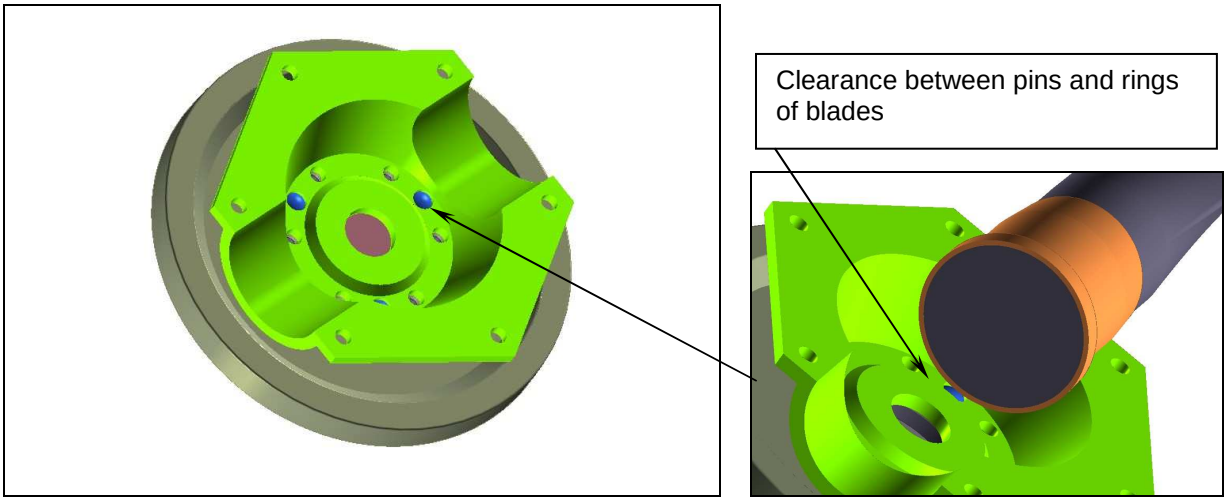


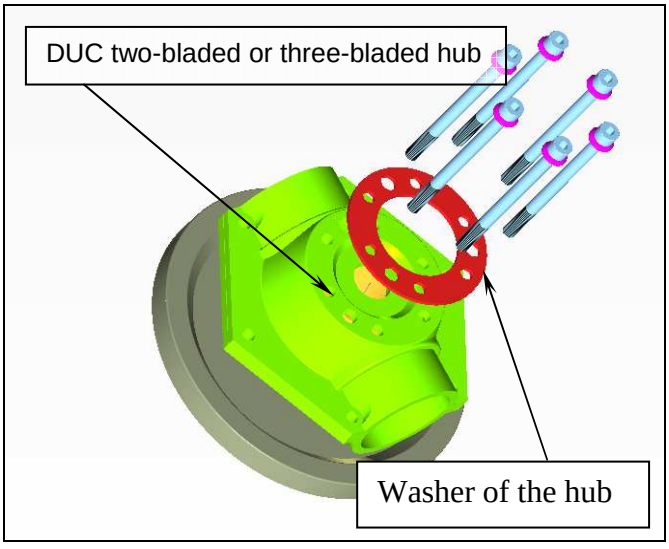
- Once the mounting plate and the hub half is positioned, ***check that the head of the pins does not protrude from inner face of the hub ½***

If the head of the ø10mm indexing pins protrude, they may damage the blade collars and upset the angle of attack of the propeller.

With a height of 9mm, the head of pins must be flush with the lower face of the hub ½ .



Operation 2 : ***ASSEMBLY OF THE ADAPTATOR SPACER WITH THE COMPLETE HUB .***



- Once the checking has been carried out, position the spinner mounting plate and the complete hub on the spacer by indexing them on the 3 ø10mm pins,
- Fit the washer of the hub and the 6 CHC M8 screws.

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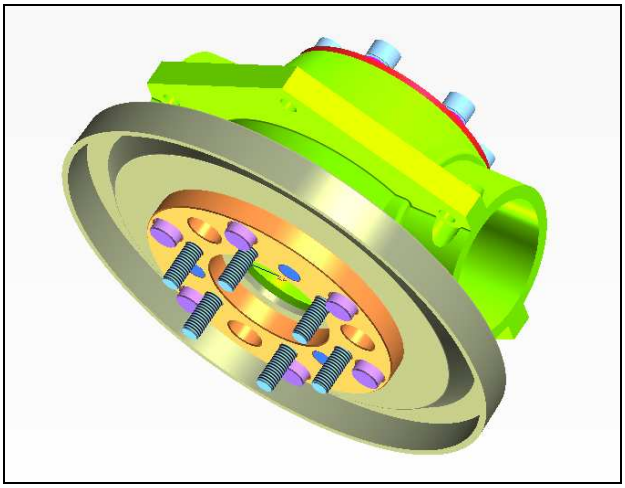
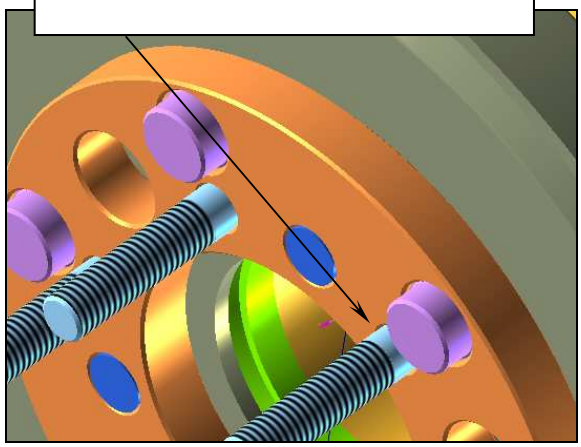
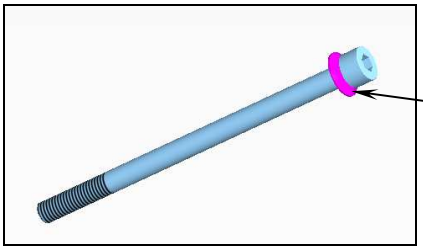
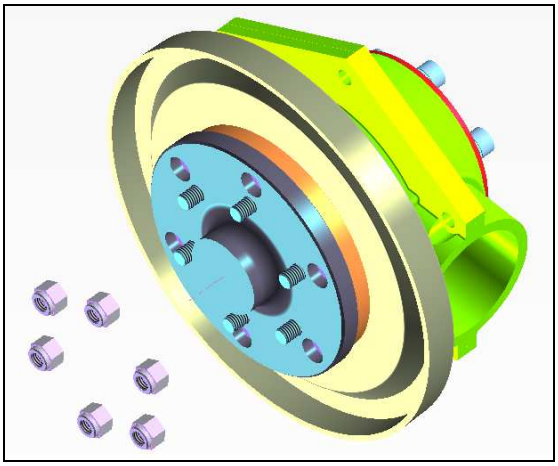


Shearing surface on the shank of 6 CHC M8 screws and not on the threads.





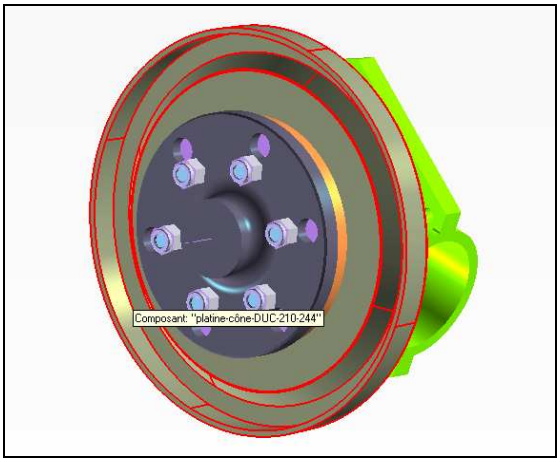
Ø8 Conical notched plate washer



- Once the 6 CHC M8 screws are positioned, mount and tighten the M8 mylock nuts on the back of the ROTAX propeller hub.

TIGHTENING

2,5 Kg/m
25 N.m



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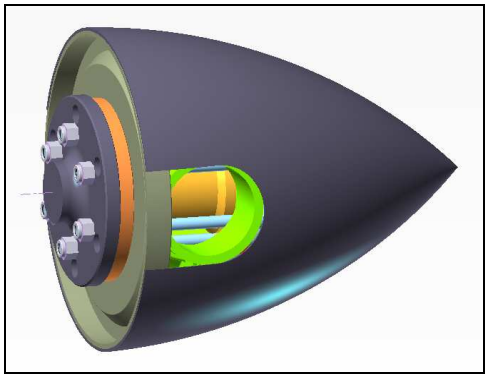
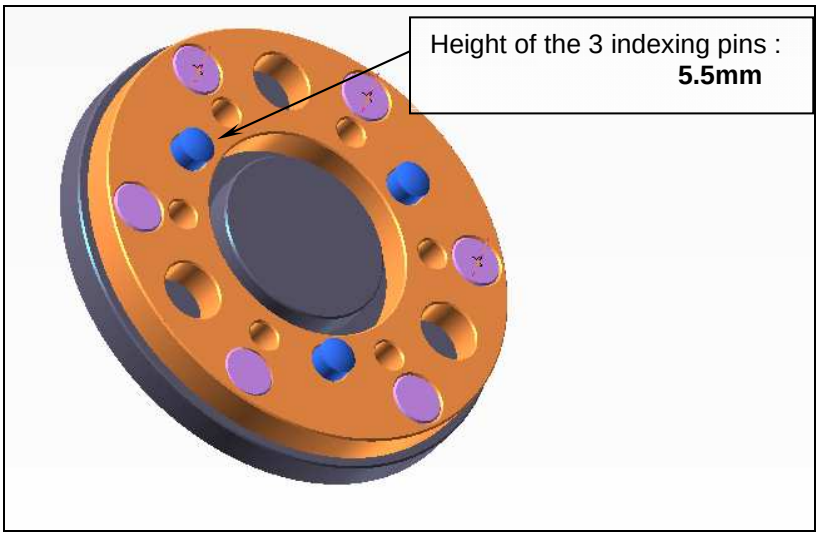


- Assemble the DUC spinner on the back plate. Position the openings over the blades.

Assembly of the 912H adaptator spacer without DUC spinner

Operation 1 : ***VERIFICATION OF THE ADAPTATOR SPACER.***

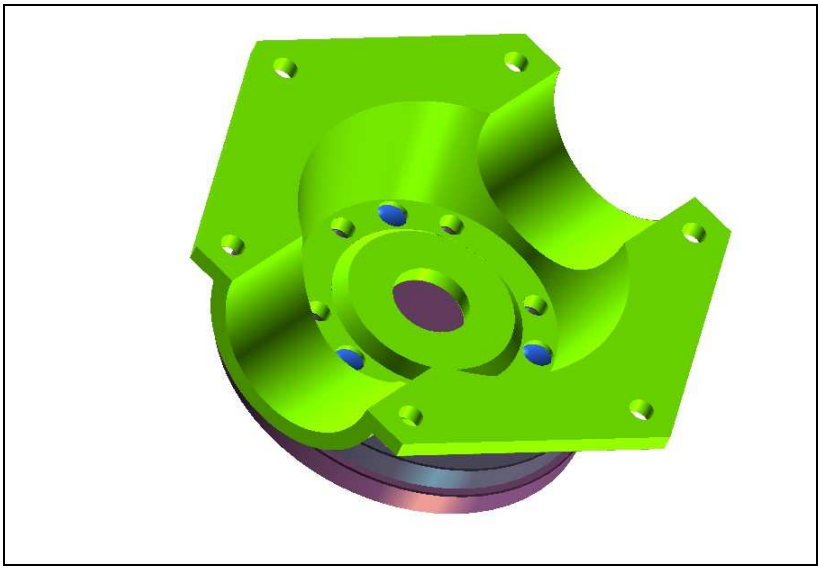


VERIFICATION :

In the case of the assembly without DUC spinner mounting plate, the height of the 3 indexing pins ø10mm is :

5.5 mm

Position the spacer on the ROTAX propeller shaft new generation in the same way at previously.



Index the lower ½ hub with the 3 indexing pins ø10mm on the adaptator spacer.

With a height of 5.5mm, the head of the 3 indexing pins must be flush with the lower face of the hub ½.

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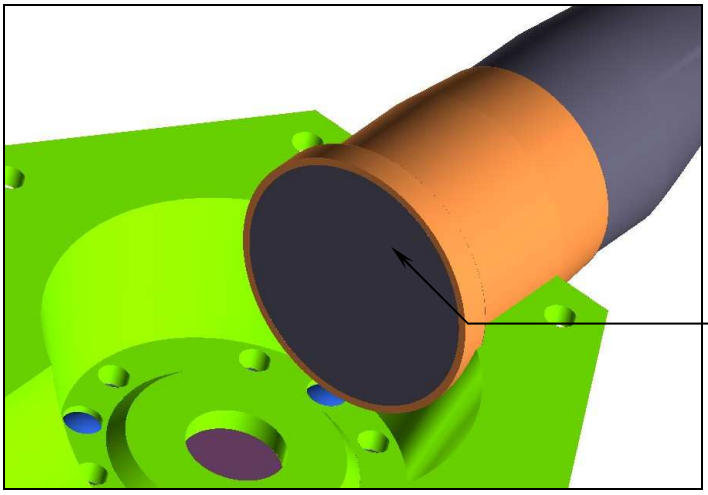
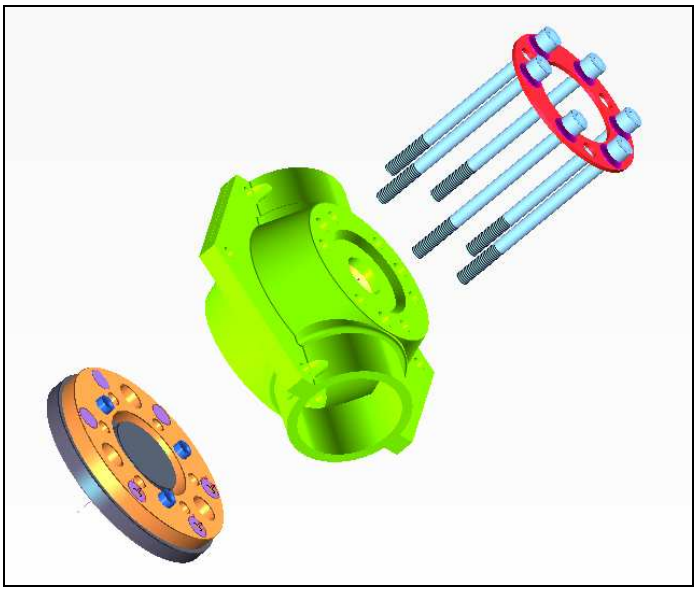


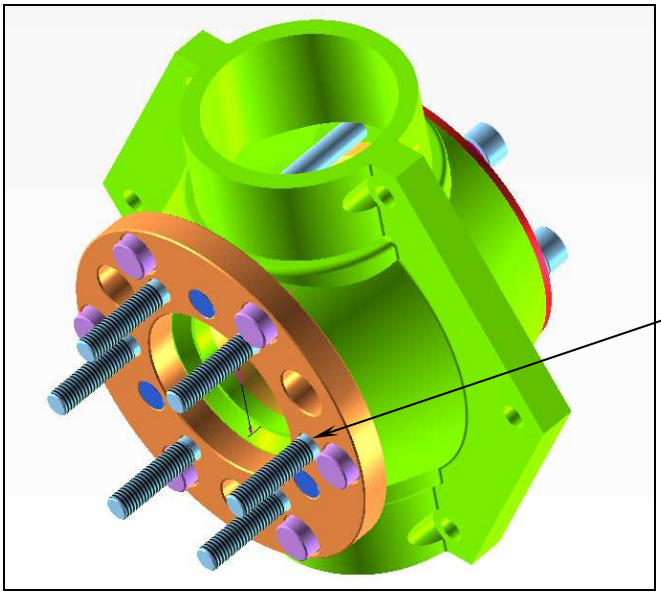
If the head of the indexing ø10mm pins protrude, they may damage the collar of the blade and upset the angle of attack of the propeller.

Operation 2 : ***FIXING OF THE COMPLETE HUB ON THE ADAPTATOR SPACER .***



- Once the checking has been carried out, position the complete hub on the spacer by indexing it on the 3 ø10mm pins.
- Mount the 6 CHC M8 bolts to the hub in the 6 smooth holes ø8mm. Distance between centers of ø75mm on the ROTAX propeller hub new generation.

Take care with the order of the washers on the 6 fixing bolts of the hub.



The shank of the bolt should pass through the holes of ø8mm of the propeller hub to transmit the shear force.

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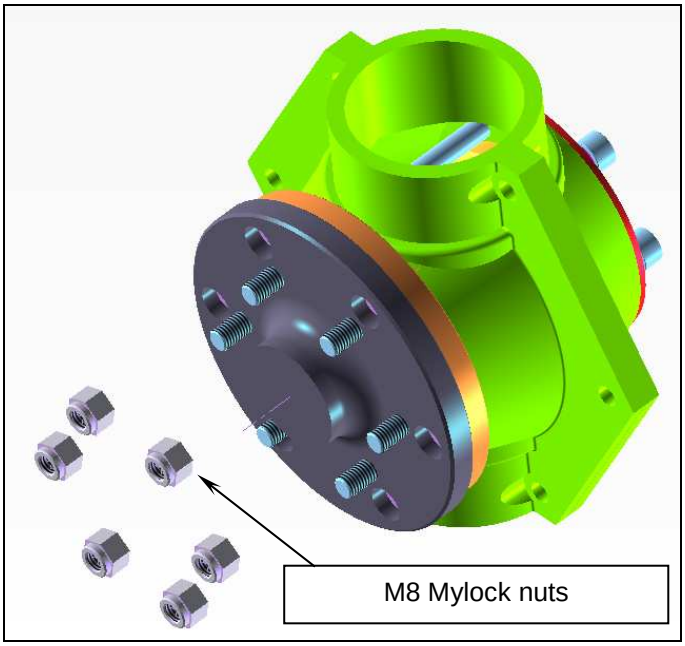

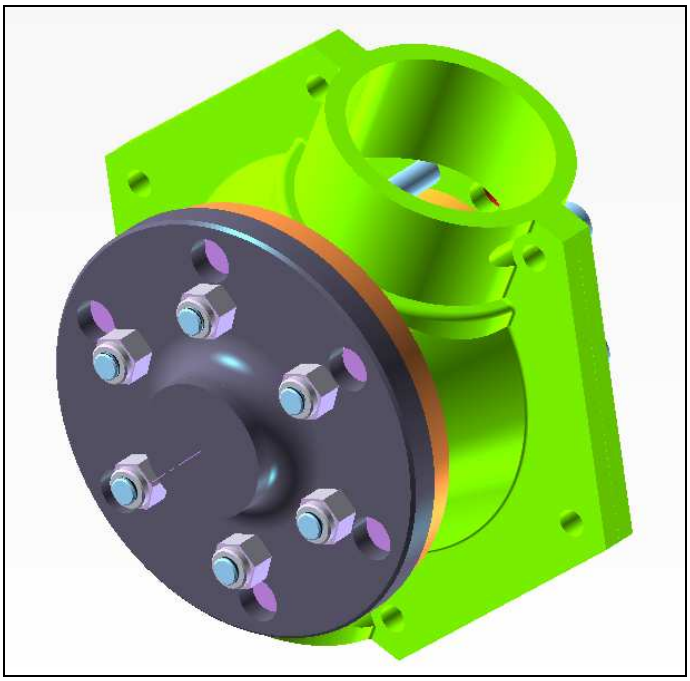

- Once the 6 CHC M8 bolts are tightened, mount and tighten the M8 mylock nuts on the back of the VERNER propeller shaft.

TIGHTENING

2,5 Kg/m
25 N.m

If you note anomalies during assembly or operation do, not undertake flight and contact the DUC-HELICES company immediately.

The accessories and the DUC propeller must be assembled in accordance with the technical notes of the DUC company.

Any deviation from this data will release the DUC company from any responsibility.

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Lentilly,
March, 17th 2008

Our Ref. : VD/SC/CDH020-2008

Re. : Assembly of our spacers on 2 strokes engines (ROTAX 503 or 582 engines) and 4 strokes (ROTAX 912, 912S and 914 engines)

Dear Customer,

We remind you some indications to be respected during the assembly of our adaptator spacer and our intermediary spacer on your machines.

Engines 4 strokes (ROTAX 912, 912S and 914) :

REMINDER : On these engines, the propeller shaft of origin is made up of :
- *6 holes of 8 mm at a length from the center of 75 mm*
- *6 holes of 13 mm at a length from the center of 101.6 mm.*

If you want to fit a spacer between the propeller shaft and our propeller' hub, you have to fit a 912 H adaptator spacer (available in 10, 30, 45, 50 or 80 mm) with the ROTAX pawns (ø 13 mm).
You can also add a 912 H intermediary spacer (available in 30, 40 or 60 mm) if the spacing is not sufficient.
YOU MUST NEVER FIT AN INTERMEDIARY SPACER (INTEND TO 2 STROKE ENGINES) ON A 912, 912S or 914 ENGINE BECAUSE OF A RISK OF SHEARING. THEN, THE SCREWS CAN BREAK IN FLIGHT.

Engines 2 strokes (ROTAX 503 or 582):

If you want to fit a spacer, we remind you that you have to fit the intermediary spacer - 6 holes of 8 mm at a distance from center of 75 mm (available in 30 or 60 mm).

The non respect of all these indications would discharge the company DUC HELICES from any liability.

If you need any further information with regard to this note, please don't hesitate to contact us or our international representative: France Aviation Ltd, 0800 AVIATOR (NZ Only), +64 21887205, contactus@franceaviation.co.nz.

Best Regards

Vincent DUQUEINE
Manager