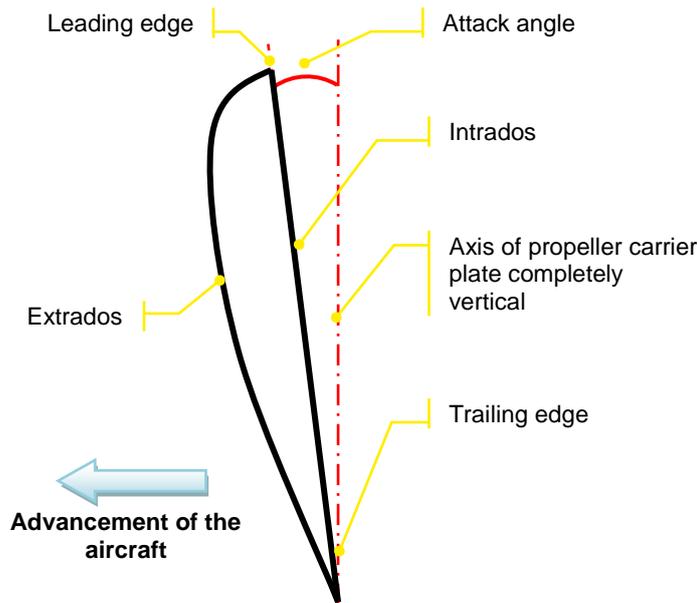


INSTRUCTION FOR DUC PROPELLERS UNIVERSAL ADJUSTING TOOL

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. Airfoil



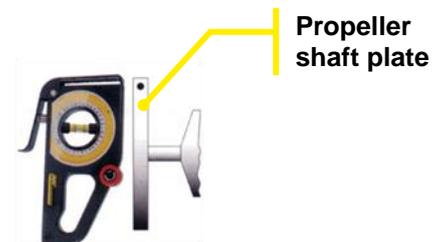
2. SWIRL & FLAIR propellers

Above all, the blade to adjust must be set to horizontal.

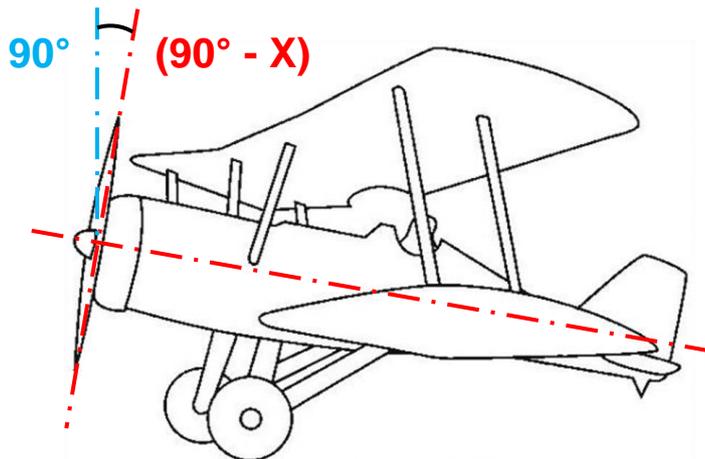
The calibration is done with the adjustment tool flattened against the intrados (leading edge up) to **0.79" (20 cm) from the blade tip**. The attack angle is formed by the vertical and the intrados of the blade.

To do this, place your aircraft horizontally, so that the propeller shaft is perfectly vertical.

Check with the level of the adjustment tool (**90°**).



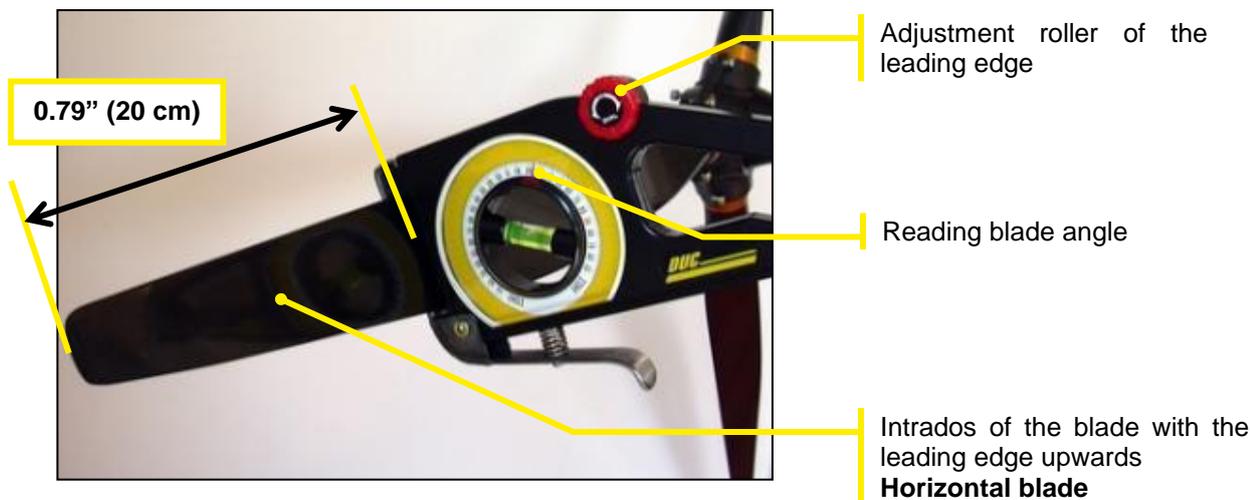
If unable to change the longitudinal axis of the aircraft, raising the value of the **X** angle propeller shaft plate to subtract the value of the blade angle to be resolved.



Method:

- 1) Fixing screws of the propeller slightly unscrewed, horizontal blade, leading edge upwards, place the adjusting tool at 0.79" (20 cm) from the tip of the blade, intrados side (flat) of the blade, handle down (see the picture below).
- 2) Set the desired value (recalculated if required on the inclination of the aircraft) on the tool.
- 3) Using a mallet, lightly tap on the foot blade to rotate the blade in the desired direction.
- 4) Once the desired pitch angle obtained, perform the same operation on each of the other blades. Remove the tool and tight the fixing screws of the propeller to a torque of 25Nm (2.5kg/m; 221lbs/in)

SCREWS TIGHTENING TORQUE = 25Nm (2.5kg/m; 221lbs/in)



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.**

The DUC Hélices Company's products must be installed and used in accordance with instruction manuals provided. No changes can be made without the prior approval of the DUC Hélices company. The failure of these data releases any liability of the DUC Hélices Company and makes non-warranty the considered products.

3. FC WINDSPOON propeller

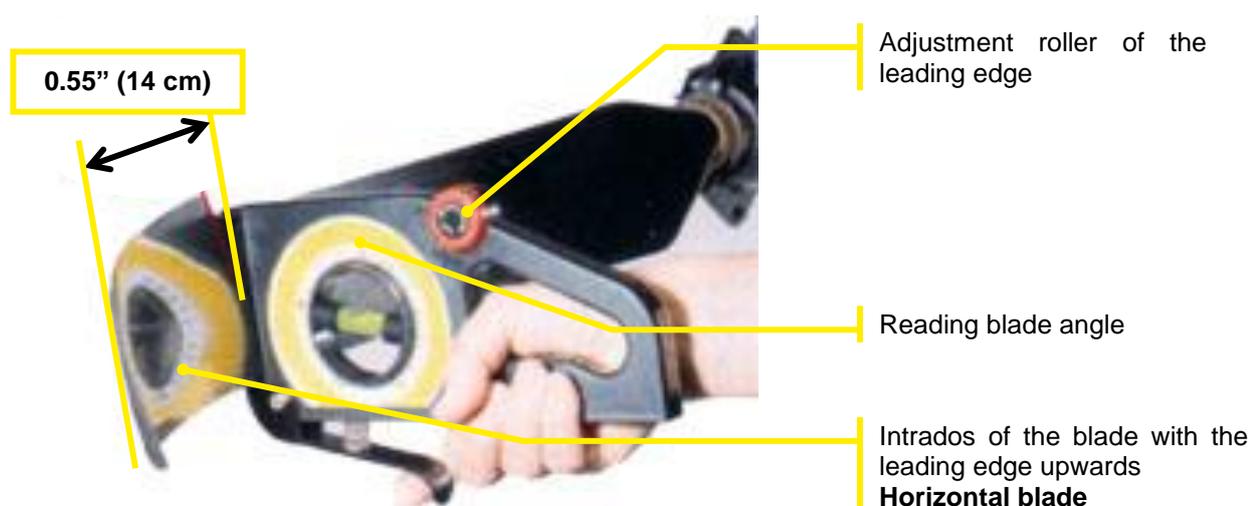
For the FC WINDSPOON propeller, the procedure is the same as for SWIRL and FLAIR propeller but the tool must be placed at **0.55" (14cm) from the blade tip, just after the "S" of edge.**

Make sure you place your aircraft horizontally so that the propeller plate is perfectly vertical. Otherwise, apply the correction as explained above in the preceding paragraph.

Method:

- 1) Fixing screws of the propeller slightly unscrewed, horizontal blade, leading edge upwards, place the adjusting tool at 0.55" (14cm) from the tip of the blade (after the slip), intrados side (flat) of the blade, handle down (see the picture below).
- 2) Set the desired value (recalculated if required on the inclination of the aircraft) on the tool.
- 3) Using a mallet, lightly tap on the foot blade to rotate the blade in the desired direction.
- 4) Once the desired pitch angle obtained, perform the same operation on each of the other blades. Remove the tool and tight the fixing screws of the propeller to a torque of 25Nm (2.5kg/m; 221lbs/in)

SCREWS TIGHTENING TORQUE = 25Nm (2.5kg/m; 221lbs/in)



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.**

The DUC Hélices Company's products must be installed and used in accordance with instruction manuals provided. No changes can be made without the prior approval of the DUC Hélices company. The failure of these data releases any liability of the DUC Hélices Company and makes non-warranty the considered products.

DUC Hélices Propellers

Aérodrome de Villefranche-Tarare (LFHV)
289 Avenue Odette & Edouard DURAND
69620 FRONTENAS - FRANCE
Phone. : + 33 (0)4 74 72 12 69 - Fax : +33 (0)4 74 72 10 01
E-mail : contact@duc-helices.com - www.duc-helices.com
After Sales services : service.technique@duc-helices.com



ISO 9001:2008
Certified Company



Data and pictures included in this instruction manual are exclusively property of DUC Hélices Company. Any part of this manual can be reproduced or transmitted in any form with any means, electronic or manual, for any reason, without written approval of DUC Hélices Company.