



# SERVICE BULLETIN

**Service Bulletin No:** SB-WA500AG-003  
**Revision:** Original  
**Date of Issue:** 15/Mar/2023

## **AFFECTED AIRCRAFTS:**

**Model** WA500-AG  
**Serie No.** 520617121001 ; 520720111006

## **PURPOSE:**

Provide general guidance to operators for the authorized change of propellers based on the satisfactory results obtained with a new propeller model during official flight tests witnessed and approved by Colombian Civil Aviation Authority (UAEAC) under communication Radicado No. 2023240040002132, Id: 924417.

## **DESCRIPTION:**

An improvement performance of the aircraft WA500-AG can be obtained with the replacement of the current Wooden-2-bladed CLERICI® propeller with a Composite-3-bladed Powerfin® propeller. Such performance's improvement is reflected in a reduction in Take-Off distance of around 13% and an increment in rate of climb close to 30%. The propeller's replacement procedure covered with this Service Bulletin is not mandatory and applies exclusively to the Serie No's above mentioned since they are the only ones that left the manufacturer's factory originally with CLERICI® propeller installed.

## **COMPLIANCE TIME:**

During schedule or un-schedule maintenance labors.

## **METHOD OF COMPLIANCE:**

The authorized replacement propeller for the wooden 2-bladed Clerici® originally installed on Serie No. 520617121001 and 520720111006 is the ASTM compliance Powerfin®, specifically its F-Model with the following characteristics:

<b>CHARACTERISTICS OF THE APPROVED POWERFIN® PROPELLER</b>					
Model	Type	Direction of Rotation	No. of blades	Blades Part No.	Hub Part No.
F-Model	Tractor	Right (Clockwise from the pilot perspective)	3	FR68 (With stainless steel leading edge)	L3

- 1) Disassemble the Clerici® propeller from the aircraft following the instructions given in “Manual de Operacion, Instalacion y Mantenimiento. HC-MO-1”. The latest version of this Manual can be obtained by requesting it by mail to: [info@helicesclerici.com](mailto:info@helicesclerici.com)
- 2) Install the Powerfin® propeller following the procedure described in “POWERFIN Assembly Instructions (2012)”. The latest version of this Manual can be found at: <https://www.powerfin.com/instructions-documents>.
- 3) The recommended pitch setting is 12° at the blade’s tip. Set this value in the propeller following the section “Pitch Change Instruction” given in “POWERFIN Assembly Instructions (2012)”.
- 4) Update the aircraft’s Flight and Maintenance Manual (Doc.-No. WA500AG-FlightManual and Doc.-No. WA500AG-MtceManual) by requesting the complete and latest revised version of the manuals to e-mail: [info@wacsa-aero.com](mailto:info@wacsa-aero.com) or [andrepalcar@hotmail.com](mailto:andrepalcar@hotmail.com)

**REMARKS:**

- Compliance with this Service Bulletin must be recorded in the proper Aircraft Log Book(s).
- Where applicable, the requirements of this SB must be integrated into the aircraft’s Maintenance Schedule.
- Address inquiries concerning this Service Bulletin to: [info@wacsa-aero.com](mailto:info@wacsa-aero.com) or [andrepalcar@hotmail.com](mailto:andrepalcar@hotmail.com)

WACSA

South America