



Reference 91B, 91-B2, 91C Safir Propeller Hartzell HC with plastic blades  Introduction of a sheet bushing of teflon.	Date March 29, 1960	No. 91.6/18
	Saab Service Dept. C Larsson Saab Design. Dept. J Boklund	
Urgency IV	Royal Swedish Board of Civil Aviation LFS	
Marking -	Effect on weight distribution	
	Weight change lbs	Station in.
	-	-
		Moment change lbs.in.
		-

Time of delivery for necessary parts

-

K/K

Drawings: Not necessary

Parts concerned:

Propeller SA 576270 | Hartzell HC 12x20-8:  
Propeller 6101715

Parts required per plane:

Item	Figure
01 2	Teflon sheets 0,75 <sup>+ 0</sup> - 0,02 x 100 x 130

In case of damage e.i. excessive play in the hole of the blade root, or seizure between the blade root and the guide sleeve, a sheet bushing of teflon can be introduced instead of an oversize guide sleeve, see attached figure.

Work procedure:

Dismount the propeller from the engine, loosen the clamps holding the blades and remove the blades from the hub. Replace the clamps on the blades and tighten the screws by a torque spanner according to Hartzell Hydro-Selective Propeller Manual, Model HC-12x20, section VIII, A3d and F.

Alternative I

Enlarge the hole in the root of the blade to  $\phi 39,624 \begin{matrix} + 0,000 \\ - 0,025 \end{matrix}$  mm

Alternative II

(1st step at oversize guide sleeve)

Enlarge the hole in the root of the blade to  $\phi 39,751 \begin{matrix} + 0,000 \\ - 0,025 \end{matrix}$  mm

Alternative III

(2nd step of oversize guide sleeve)

Enlarge the hole in the root of the blade to  $\phi 39,878 \begin{matrix} + 0,000 \\ - 0,025 \end{matrix}$  mm

Adjust the sheet of teflon to fit in the hole so a play of 0,5 mm according to view A-A in the figure is obtained.  
Loosen the clamps and fit the blades and the clamps to the propeller hub.  
Tighten the screws according to Hartzell Hydro-Selective Propeller Manual Model HC-12x20, section VIII, para. A3d and F.

### Balancing.

Balance the propeller according to Hartzell Hydro-Selective Propeller Manual, Model HC-12x20, section VII, para. E.

### Note

This modification should be carried out in a propeller repair shop.

