

ICA_102210

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
FOR A HARTZELL PHC-(C,J)3YF-2UF/FC7391D(B) PROPELLERS
ON HAWKER BEECHCRAFT BARON 55 AND 58 SERIES AIRCRAFT**

STC SA02561CH-D

LOG OF REVISIONS

Revision	Revised Page(s)	Description of Revision	Engineer	Date
New	All	Original Release	L. Doud	10/22/10

NOTE: All changes are indicated by a black vertical line along the left margin.

If you have any questions regarding the propeller installation of this STC, please contact Hartzell Propeller at:

***Phone: (937) 778-4379 or
1-800-942-7767***

E-mail: techsupport@hartzellprop.com

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Introduction

The subject STC approves replacement of the propeller and spinner models listed in airplane Type Certificate Data Sheet 3A16 with the Hartzell propeller and spinner model shown in Table 1. A description of propeller construction and function may be found in Hartzell Manual 115N that is supplied with each STC kit.

Chapter 4 Airworthiness Limitations

NOTE: The Airworthiness Limitations section is FAA approved and specifies maintenance required under Secs. 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

There are no life-limited components used in the STC installation.

Chapter 5 Time limits / Maintenance checks

Recommended Time-Between-Overhaul (TBO) limits for the STC propeller is provided in Hartzell Service Letter 61.

Chapter 30-60 Ice and Rain Protection - Propellers

The orifice position of the propeller blade discharge tubes should be adjusted according to Note 5 on Hartzell Propeller Inc. drawing 103293 (Anti-Ice Installation Drawing) with the propeller blades at the "High" (aka start lock) position of 18.5°. Refer to Hartzell Manual 180 Section 10.11, Kit Part Number 103313 for anti-ice kit installation/maintenance instructions and illustrated parts list. Refer to Hartzell Manual 181 for component maintenance information.

Propeller Fluid Type Anti-Ice Boot Removal and Installation - The propeller blade anti-ice boot removal and installation procedures are provided in Hartzell Manual 183 – Propeller Anti-icing Boot Removal and Installation Manual.

Chapter 61 Propellers

Maintenance and troubleshooting practices and procedures for the propeller are in Hartzell Manual 115N (Hartzell Owner's Manual) which is included with the propeller. Use Hartzell Manual 115N maintenance procedures designated for "F" flange and "-2" propellers.

Propeller overhaul must be accomplished by an approved Propeller Repair Station.

Chapter 71 Powerplant - No Change

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TABLE 1 – Aircraft/Propeller Model Effectivity

Aircraft model	Aircraft Serial Numbers	TCM Engine Model	STC propeller model	Spinner Model	Anti-ice kit
<i>Detailed instructions for following models in Section 5.0</i>					
95-55	All ^A	IO-470-L	PHC-C3YF-2UF / FC7391D	C-3567-9(P)	103313
95-A55	All ^A	IO-470-L	PHC-C3YF-2UF / FC7391D	C-3567-9(P)	103313
95-B55	All ^A	IO-470-L	PHC-C3YF-2UF / FC7391D	C-3567-9(P)	103313
95-B55A	All ^A	IO-470-L	PHC-C3YF-2UF / FC7391D	C-3567-9(P)	103313
95-B55B	All ^A	IO-470-L	PHC-C3YF-2UF / FC7391D	C-3567-9(P)	103313
95-C55	All ^A	IO-520-C or IO-520-CB	PHC-C3YF-2UF / FC7391D(B)	C-3567-9(P)	103313 ^B
95-C55A	All ^A	IO-520-C or IO-520-CB	PHC-C3YF-2UF / FC7391D(B)	C-3567-9(P)	103313 ^B
D55	All ^A	IO-520-C or IO-520-CB	PHC-C3YF-2UF / FC7391D(B)	C-3567-9(P)	103313 ^B
D55A	All ^A	IO-520-C or IO-520-CB	PHC-C3YF-2UF / FC7391D(B)	C-3567-9(P)	103313 ^B
E55 ^B	All ^B	IO-520-C or IO-520-CB	PHC-C3YF-2UF / FC7391D(B)	C-3567-9(P)	103313 ^B
E55A ^B	All ^B	IO-520-C or IO-520-CB	PHC-C3YF-2UF / FC7391D(B)	C-3567-9(P)	103313 ^B
<i>Detailed instructions for following models in Section 6.0</i>					
E55 ^C	All ^C	IO-520-C or IO-520-CB	PHC-J3YF-2UF / FC7391D	C-3567-8(P)	N/A
E55A ^C	All ^C	IO-520-C or IO-520-CB	PHC-J3YF-2UF / FC7391D	C-3567-8(P)	N/A
58	See note D	See note D	PHC-J3YF-2UF / FC7391D	See note E	See note F
58A	See note D	See note D	PHC-J3YF-2UF / FC7391D	See note E	See note F

NOTES:

- A. All serial numbers are approved, but for the propeller fluid anti-ice systems to be approved, the aircraft must currently have a propeller fluid anti-ice system installed on the particular serial number aircraft.
- B. Propeller anti-ice kit 103313 is approved as an option on the 95-C55, 95-C55A, D55, D55A E55 and E55A model Baron aircraft without air conditioning.
- C. E55 and E55A aircraft with air conditioning use the extended hub "J3YF" propeller and are not approved with propeller anti-ice.
- D. Approved model 58 and 58A aircraft serial number and engine models:

Aircraft Serial Number	Engine Model
TH-1 through TH-1395 except TH-1389	IO-520-C or IO-520-CB
TH-1389, TH-1396 through TH-1471, TH-1476, TH-1487, TH-1489 and TH-1498	IO-550-C

- E. Approved spinners for model 58 and 58A aircraft:

SPINNER ASSY. P/N (NO AIR COND.)	C-3567-7(P)
SPINNER ASSY. P/N (WITH AIR COND.)	C-3567-8(P)

- F. Approved propeller anti-ice kits for model 58 and 58A aircraft:

ANTI-ICE KIT (NO AIR CONDITIONING)	102679-1
ANTI-ICE KIT (LEFT SIDE WITH AIR CONDITIONING)	102679-2