

HARTZELL PROPELLER INC.  
**ALERT SERVICE BULLETIN**

TRANSMITTAL SHEET

HC-ASB-61-303

**Propeller - Cessna 180 Propeller Replacement**

June 26, 2008

This page transmits a revision to Alert Service Bulletin HC-ASB-61-303.

- Original Issue, dated May 19/08
- Revision 1, dated Jun 26/08

Propeller assemblies that have previously complied with the inspections required in a previous revision of this Alert Service Bulletin are not affected by this revision.

FAA approval has been obtained on technical data in this publication that affects type design.

Changes are shown by a change bar in the left margin of the revised pages.

This revision is issued to change the following in the Alert Service Bulletin:

- Modified the Warning statement on page 2

This Alert Service Bulletin is reissued in its entirety.

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# ALERT SERVICE BULLETIN

## HC-ASB-61-303

### Propeller - Cessna 180 Propeller Replacement

#### 1. Planning Information

##### A. Effectivity

- (1) The Cessna 180 (A-H,J,K) Skywagon equipped with floats and Hartzell PHC-(C,G)3YF-1RF/F7691( ) aluminum hub compact propeller installed in accordance with Hartzell Supplemental Type Certificate (STC) SA00852AT or SA09025SC are affected by this Service Bulletin.
- (2) The Cessna 180 (A-H,J,K) Skywagon that does not have floats installed may continue to use the PHC-(C,G)3YF-1RF/F7691( ) propeller.

NOTE 1: Supplemental Type Certificate SA00852AT was previously distributed through Bonaire Aviation Company.

##### B. Reason

- (1) The Cessna 180 (A-H,J,K) Skywagon equipped with floats and the Hartzell PHC-(C,G)3YF-1RF/F7691( ) propeller does not provide the thrust required to achieve the climb performance desired for an aircraft on floats. The Cessna 180 (A-H,J,K) Skywagon without floats installed does not experience this condition.
- (2) Hartzell has received one report of a Cessna 180 (A-H,J,K) Skywagon equipped with floats that experienced a problem with climb performance.
- (3) Replacement of the PHC-(C,G)3YF-1RF/F7691( ) propeller with the PHC-(C,G)3YF-1RF/F8468A-6R propeller will remove the possibility of this condition.
- (4) Regulatory action is not expected.

##### C. Description

- (1) This Service Bulletin requires replacement of the PHC-(C,G)3YF-1RF/F7691( ) propeller with the PHC-(C,G)3YF-1RF/F8468A-6R propeller when installed on the Cessna 180 (A-H,J,K) Skywagon equipped with floats.
- (2) This Service Bulletin introduces the PHC-(C,G)3YF-1RF/F8468A-6R propeller for installation on a Cessna 180 (A-H,J,K) Skywagon equipped with floats.

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### D. Compliance

WARNING: FAILURE TO COMPLY WITH THIS ALERT SERVICE BULLETIN MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE.

- (1) Before next flight, discontinue operation of any Cessna 180 (A-H,J,K) aircraft equipped with floats and with propeller model PHC-(C,G)3YF-1RF/F7691( ) in accordance with STC SA00852AT or SA09025SC. This propeller model is not approved for operation with floats.
- (2) Before next flight, remove any PHC-(C,G)3YF-1RF/F7691( ) propeller from the aircraft if the aircraft has floats installed.
- (3) Replace the propeller assembly with a PHC-(C,G)3YF-1RF/F8468A-6R propeller assembly.

NOTE 1: STC SA09025SC has been replaced by STC SA00852AT.

NOTE 2: Hartzell STC's SA00852AT has been amended to permit the installation of Hartzell propeller model PHC-(C,G)3YF-1RF/F8468A-6R on a Cessna 180 (A-H,J,K) aircraft equipped with floats.

### E. Approval

- (1) FAA approval has been obtained on technical data in this publication that affects type design.

### F. Manpower

- (1) Approximately 2.0 man hours are required for propeller removal and replacement.
- (2) Approximately 3.0 man hours are required for dynamic balance.

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#### **G. Weight and Balance**

- (1) The PHC-C3YF-1RF/F8468A( )-6R propeller and spinner assembly are 9.0 lb. (0.45 kg) greater than the PHC-C3YF-1RF/F7691( ) propeller and spinner assembly.
- (2) The PHC-C3YF-1RF/F8468A( )-6R propeller and spinner assembly are 7.8 lb. (4.44 kg) greater than the PHC-G3YF-1RF/F7691( ) propeller and spinner assembly.
- (3) The PHC-G3YF-1RF/F8468A( )-6R propeller and spinner assembly are 10.2 lb. (1.36 kg) less than the PHC-C3YF-1RF/F7691( ) propeller and spinner assembly.
- (4) The PHC-G3YF-1RF/F8468A( )-6R propeller and spinner assembly are 9.0 lb. (3.63 kg) greater than the PHC-G3YF-1RF/F7691( ) propeller and spinner assembly.

#### **H. References**

- (1) Hartzell Owner's Manual 115N (61-00-15)
- (2) Hartzell Compact Propeller Overhaul and Maintenance Manual 113B (61-10-13)

#### **I. Other Publications Affected**

- (1) Hartzell Application Guide 159 (61-02-59)

## **2. Material Information**

#### **A. Material Necessary Propeller Replacement**

- (1) PHC-(C,G)3YF-1RF/F7691( ) propeller assembly is approved for installation on Cessna 180(A-H,J,K) without floats.
- (2) PHC-(C,G)3YF-1RF/F8468A-6R propeller assembly is approved for installation on Cessna 180(A-H,J,K) with or without floats.

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### 3. Accomplishment Instructions

- A. When installed on an aircraft with floats, the Hartzell PHC-(C,G)3YF-1RF propeller must use the F8468A-6R blades. The PHC-(C,G)3YF-1RF/F7691( ) propeller assembly must be removed and replaced with a PHC-(C,G)3YF-1RF/F8468A-6R propeller assembly.
- B. Propeller replacement
  - (1) Remove the currently installed PHC-(C,G)3YF-1RF/F7691( ) propeller assembly in accordance with Hartzell Owner's Manual 115N (61-00-15).
  - (2) Install a PHC-(C,G)3YF-1RF/F8468A-6R propeller assembly in accordance with Hartzell Owner's Manual 115N (61-00-15).
- C. Indicate compliance with this Alert Service Bulletin in the propeller logbook.

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**Propeller - Cessna 180 Blade Replacement**

**1. Pricing Information**

<u>Part Number</u>	<u>Keyword</u>	<u>Special Pricing</u>
PHC-C3YF-1RF/F8468A-6R	Propeller Assembly	\$6,900.00

**2. Eligibility**

- A. Only a Cessna 180 (A-H,J,K) Skywagon with floats and with the Hartzell PHC-(C,G)3YF-1RF/F7691( ) aluminum hub propeller installed in accordance with Hartzell Supplemental Type Certificate (STC) SA00852A or SA09025SC are eligible for the special pricing provided in this Alert Service Bulletin.
- (1) The PHC-(C,G)3YF-1RF/F7691( ) propeller must be returned to Hartzell Propeller Inc.
- (2) Supplemental Type Certificate SA00852A was previously distributed through Bonaire Aviation Company.
- B. Special pricing is available until May 19, 2009.

**3. Description**

- A. Hartzell Alert Service Bulletin HC-ASB-61-303 requires replacement of the currently installed PHC-(C,G)3YF-1RF/F7691( ) propeller assembly with a PHC-(C,G)3YF-1RF/F8468A-6R propeller assembly, when installed on a Cessna 180 (A-H,J,K) aircraft with floats.
- B. Hartzell will provide special pricing for a PHC-C3YF-1RF/F8468A-6R propeller assembly.

NOTE: Hartzell will provide the PHC-C3YF-1RF/F8468A-6R for the special pricing program. The PHC-G3YF-1RF/F8468A-6R will not be provided for this special pricing.

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Propeller Model: <u>PHC-(C,G)3YF-1RF</u>	Document No.: <u>HC-ASB-61-303</u>	Revision: <u>1</u>
Component Part Number: <u>F7691( )</u>	Date of Issue: <u>May 19/08</u>	Rev. Date: <u>Jun 26/08</u>

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**Propeller - Cessna 180 Blade Replacement**

**4. Recommended Repair Facilities**

- A. Hartzell has a worldwide network of Recommended Repair Facilities that are approved by Hartzell for overhaul and repair of Hartzell propellers.
- B. Each facility must meet the standard FAA requirements and the additional Hartzell requirements before being approved by Hartzell. Each facility is audited by Hartzell to verify the continuation of the standards.
- C. Hartzell recommends that you use one of these facilities when purchasing a new propeller or having your propeller overhauled or repaired.
- D. Refer to Table 1 for a list of Recommended Repair Facilities. This list is also available on the Hartzell website at [www.hartzellprop.com/Product Support/ Worldwide Network](http://www.hartzellprop.com/ProductSupport/WorldwideNetwork).

**5. Special Pricing Program**

- A. Hartzell PHC-(C,G)3YF-1RF/F7691( ) propellers installed on Cessna 180 (A-H,J,K) with floats are affected by this Alert Service Bulletin.

- (1) Hartzell will provide a PHC-C3YF-1RF/F8468A-6R propeller assembly for \$6,900.00 USD. Special pricing is available until May 31, 2009.

NOTE 1: List price for the F8468A-6R blades is \$3,126.00 USD per blade.  
List price for a PHC-C3YF-1RF/F8468A-6R propeller assembly is \$13,196.00 USD.

NOTE 2: The currently installed spinner assembly may be retained by the owner for use with the PHC-C3YF-1RF/F8468A-6R propeller assembly.

- (2) Hartzell will provide a copy of the Supplemental Type Certificate SA00852AT.

NOTE 1: STC SA09025SC has been replaced by STC SA00852AT.

NOTE 2: Hartzell STC's SA00852AT has been amended to permit the installation of Hartzell propeller model PHC-(C,G)3YF-1RF/F8468A-6R on a Cessna 180 (A-H,J,K) aircraft equipped with floats.

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Propeller Model: <u>PHC-(C,G)3YF-1RF</u>	Document No.: <u>HC-ASB-61-303</u>	Revision: <u>1</u>
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**Propeller - Cessna 180 Blade Replacement**

- (3) Complete the Propeller Order Form on page 9 for each propeller assembly or aircraft identified in the Effectivity section of Alert Service Bulletin Appendix and fax or mail to:

Hartzell Propeller Inc.  
Attn.: Product Support  
One Propeller Place  
Piqua, Ohio 45356-2634 USA  
Phone: 937.778.4379  
Fax: 937.778.4391 (Intl. 001.937.778.4391)

- (4) Hartzell Product Support will contact the facility ordering the propeller assembly with a Return Authorization number to return the unserviceable propeller assembly.
- (5) Hartzell New Part Sales will contact the facility ordering the propeller assembly with an approximate ship date for the new propeller assembly.
- (6) Upon receipt of the new propeller assembly, ship the unserviceable propeller assembly to Hartzell:

Hartzell Propeller Service Center  
Attn.: Alert Service Bulletin HC-ASB-61-303 Coordinator  
5465 W. State Route 185  
Piqua, Ohio 45356-2634 USA

NOTE 1: Be sure to reference Return Material Authorization Number on the return shipment. Replacement propeller packaging should be used to return exchange propeller.

NOTE 2: The unserviceable propeller assembly must be received within 30 days of shipment of replacement propeller. The Facility that ordered the replacement propeller will be invoiced for full list price if unserviceable propeller is not returned to Hartzell within the 30 days.

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B. Hartzell Contact Information

- (1) Contact information for Hartzell Product Support

Hartzell Propeller Inc.  
Attn.: Product Support  
One Propeller Place  
Piqua, Ohio 45356-2634 USA  
Phone: 937.778.4379  
Fax: 937.778.4391 (Intl. 001.937.778.4391)

- (2) Contact information for Hartzell New Parts Sales

Hartzell Propeller Inc.  
Attn.: New Parts Sales  
One Propeller Place  
Piqua, Ohio 45356-2634 USA  
Phone: 937.778.4379  
Fax: 937.778.4215 (Intl. 001.937.778.4215)

**WARRANTY PROGRAM HAS EXPIRED**

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Propeller Model: <u>PHC-(C,G)3YF-1RF</u>	Document No.: <u>HC-ASB-61-303</u>	Revision: <u>1</u>
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## Propeller - Cessna 180 Blade Replacement

### Argentina

Helices Clerici  
Santa Maria De Oro 3061  
1712 Castelar  
Buenos Aires, Argentina  
Attn: Hugo Clerici  
Phone: 54-11-4623-5754  
Fax: 54-11-4661-9761  
E-mail: clerici@satlink.com.ar

West Coast Propellers P/L  
Unit 6/10 Whyalla Street  
Willetton, Western Australia 6155  
Postal Address:  
P. O. Box 3111  
Success, Western Australia 6164  
Attn: Stephen Ashley  
Phone: 61-8-9354-4113  
Fax: 61-8-9354-4113  
Mobile Phone: 0417-945-307 or 0419-049-866  
Email: westcoastpropellers@bigpond.com.au

### Australia

Aircraft Propeller &  
Spares (Aust.) Pty. Ltd.  
P. O. Box 200  
Mentone, Victoria, Australia 3194  
Attn: Linton Hayres  
Phone: 61-3-9580-2034  
Fax: 61-3-9580-0765  
After Hours No.: 61-3-9707-2775  
E-mail: propbits@ozemail.com.au  
Web: www.propbits.com

East Coast Propellers Pty. Ltd.  
Building 641, Klemm Street  
Bankstown Airport  
Sydney, New South Wales 2206, Australia  
Attn: John Marks  
Phone: 61-2-9791-0246  
Fax: 61-2-9791-0057  
E-mail: eastcoastpropellers@bigpond.com.au  
Web: www.eastcoastpropellers.com.au

### Brazil

Diamond Aviação Ltda  
Av. Santos Dumont  
n. 1977 Setor Santa Genoveva  
74672-420 Goiânia - GO Brasil  
Phone: 55 62 515 9900  
Fax: 55 62 515 9900  
E-mail: diamond@diamondaviacao.com.br  
Web: www.diamondaviacao.com.br

### Canada

Canadian Propeller Ltd.  
462 Brooklyn Street  
Winnipeg, Manitoba R3J 1M7, Canada  
Attn: Maurice Wills  
Phone: 204-832-8679 or 1-800-773-6853  
Fax: 204-888-4696  
E-mail: info@canadianpropeller.com  
Web: www.canadianpropeller.com

### Hartzell Recommended Repair Facilities Table 1

Propeller Model:	<u>PHC-(C,G)3YF-1RF</u>	Document No.:	<u>HC-ASB-61-303</u>	Revision:	<u>1</u>
Component Part Number:	<u>F7691()</u>	Date of Issue:	<u>May 19/08</u>	Rev. Date:	<u>Jun 26/08</u>

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Hope Aero Propeller & Components, Inc.  
2283 Anson Drive  
Mississauga, Ontario, Canada L5S 1G6  
Attn: Harry Hope  
Phone: 905-677-8747 or 800-268-9900  
Fax: 905-677-5935  
E-mail: propellers@hopeaero.ca  
Web: www.hopeaero.com

#### England

Proptech  
Nevil Shute Road  
Portsmouth  
Hants PO3 5RX, UK  
Attn: Andrew Featherstone, General Manager  
Phone: +44 (0)2392 657772  
Fax: +44 (0)2392 657771  
E-mail: andrew\_featherstonhaugh@hsaviation.co.uk  
Web: www.proptech.info

#### France

Technic Aviation  
Z. I. Saint Maurice  
04100 Manosque, France  
Attn: Marc Dubois  
Phone: 33-492726648  
Fax: 33-492878724  
E-mail: m.dubois@technicaviation.fr

#### Germany

Hoffmann GmbH & Co., KG.  
Kupferlingstrasse 9  
D-83022 Rosenheim, Germany  
Attn: Andrea Huber,  
Sales & Service Dept.  
Phone: 49-8031-1878-0  
Fax: 49-8031-187878  
E-mail: andrea@hoffmann-prop.com  
Web: www.hoffmann-prop.com

Röder Präzision GmbH  
Am Flugplatz  
D-63329 Egelshach, Germany  
Repair & Overhaul  
Attn: Hans Burger  
Tel: +49 (0)6103-4002-600  
Fax: +49 (0)6103-4002-236  
E-mail: hansburger@rp-eg.com  
Web: www.roeder-praezision.com

#### New Zealand

Safe Air Limited  
P. O. Box 244, Blenheim Airport  
Blenheim, New Zealand  
Attn: Steve Guthrie  
Phone: 64-3-572-7813  
Fax: 64-3-572-8846  
Mobile Phone: 21-388-767  
E-mail: steve.guthrie@safeair.co.nz  
Web: www.safeair.co.nz

WARRANTY PROGRAM HAS EXPIRED

**Hartzell Recommended Repair Facilities  
Table 1 (Continued)**

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**Norway**

Norronafly PW+AP A/S  
P. O. Box 64  
N-1330 Oslo Airport, Norway  
Attn: Roar Mikalsen  
Phone: 47-67539066  
Fax: 47-67590320  
E-mail: prop@norronafly.com  
Web: www.norronafly.com

Flightcraft Inc.  
7777 NE. Airport Way  
Portland, OR. 97218  
Attn: Jeff Howell  
Phone: 503-331-4200 or 800-547-9307  
Fax: 503-331-4261  
E-mail: propshop@flightcraft.com  
Web: www.flightcraft.com

**Singapore**

C & A Aviation (Pte) Ltd.  
Buildings 110/143  
East Camp, Seletar Airfield, Singapore 798370  
Postal Address:  
Jalan Kayu Post Office Box 59  
Singapore 918002  
Attn: K. H. Chui  
Phone: 65-4812233  
Fax: 65-4810827  
E-mail: Sales@cnaavia.com.sg

Hartzell Service Center  
Piqua Airport  
5465 West State Route 185  
Piqua, Ohio 45356  
Attn: Jeff Slattery  
Phone: 937-778-4201  
Fax: 937-778-4202  
Service Center: servicecenter@hartzellprop.com  
Web: www.hartzellprop.com

**United States**

Aviation Propellers, Inc.  
12970 Port Said Road  
Opa Locka, Florida 33054  
Attn: Tom Gaither  
Phone: 305-688-9439 or 305-688-6030  
Fax: 305-681-4236  
E-mail: dwj@avprops.com  
Web: www.avprops.com

Jordan Propeller Service, Inc.  
103 East Rhapsody  
San Antonio, Texas 78216  
Attn: Gary Jordan  
Phone: 210-344-3064  
Fax: 210-344-9433  
E-mail: Jordprop@Netxpress.com

Maxwell Aircraft Service  
Crystal Airport  
Minneapolis, Minnesota 55429  
Attn: Conrad Maxwell  
Phone: 763-533-8611  
Fax: 763-533-3219  
Web: www.hcsweb.com/maxwell

**Hartzell Recommended Repair Facilities**  
**Table 1 (Continued)**

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Ottosen Propeller & Accessories, Inc.  
105 South 28th Street  
Phoenix, Arizona 85034  
Attn: Don Ottosen  
Phone: 602-275-8514 or 800-528-7551  
Fax: 602-275-8594  
E-mail: ottosenprop@uswest.net

Piedmont Aviation Component Services  
P. O. Box 525  
3817 N. Liberty Street  
Winston Salem, North Carolina 27102  
Attn: Chuck Johnson  
Phone: 336-776-6260  
Fax: 336-776-6261  
Web: www.piedmontaviation.com

**WARRANTY PROGRAM HAS EXPIRED**

**Hartzell Recommended Repair Facilities  
Table 1 (Continued)**

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**Propeller Order Form**

Hartzell Propeller Inc.  
Phone: 937.778.4379 Fax: 937.778.4391 (Intl. 001.937.778.4391)  
E-mail: techsupport@hartzellprop.com

PO Number (if applicable): \_\_\_\_\_  
Currently Installed Propeller Model: \_\_\_\_\_  
Propeller or Hub Serial Number: \_\_\_\_\_  
Aircraft Registration Number: \_\_\_\_\_

**Customer:**

Company: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_  
State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Country: \_\_\_\_\_  
Phone: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

**Ship To:**

Company: \_\_\_\_\_  
ATTN: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_  
State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Country: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_

**WARRANTY PROGRAM HAS EXPIRED**

Do not write below this line:

Approval Number: \_\_\_\_\_  
RMA Number: \_\_\_\_\_

Propeller Model: PHC-(C,G)3YF-1RF Document No.: HC-ASB-61-303 Revision: 1  
Component Part Number: F7691( ) Date of Issue: May 19/08 Rev. Date: Jun 26/08

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**WARRANTY PROGRAM HAS EXPIRED**

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