SERVICE BULLETIN

TRANSMITTAL SHEET HC-SB-61-227

Propeller - Hub Inspection

August 27, 2012

This page transmits a revision to Service Bulletin HC-SB-61-227.

- Original Issue, dated Jan 16/98
- Revision 1, dated May 18/99
- Revision 2, dated May 8/00
- Revision 3, dated Apr 18/05
- Revision 4, dated Oct 04/05
- Revision 5, dated Sep 28/06
- Revision 6, dated Aug 27/12

Propeller assemblies that have previously complied with the terminating action specified in a previous version of this Service Bulletin are not affected.

Propeller assemblies that have not previously complied with the terminating action specified in a previous version of this Service Bulletin are affected.

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 Service Bulletin:

- Adds an optional Terminating Action for conversion of hubs without an "A" or "B" serial number suffix to an oil-filled configuration
- Revises the document to latest caution and format requirements

This Service Bulletin is reissued in its entirety.

SERVICE BULLETIN

TRANSMITTAL SHEET

<u>HC-SB-61-227</u>

Propeller - Hub Inspection

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SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

1. Planning Information

A. Effectivity

CAUTION:

DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS SERVICE BULLETIN. INFORMATION CONTAINED IN THIS SERVICE BULLETIN MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THIS SERVICE BULLETIN OR THE USE OF OBSOLETE INFORMATION MAY CREATE AN UNSAFE CONDITION THAT MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE. REFER TO THE SERVICE BULLETIN INDEX FOR THE MOST RECENT REVISION LEVEL OF THIS SERVICE BULLETIN.

- (1) Hartzell two blade, aluminum hub, "compact" ()HC-()2Y()-() series propellers manufactured before April 1997 and have no suffix letter, or have an "A" or "E" suffix letter at the end of the hub and propeller serial number and installed on the following applications are affected by this Service Bulletin.
 - (a) Aerobatic aircraft (including certificated aerobatic aircraft, military trainers, or any aircraft routinely exposed to aerobatic usage)
 - (b) Agricultural aircraft
 - (c) Piper PA-32() series aircraft with Lycoming 540 series engines rated at 300 HP or higher
 - (d) Britten Norman BN-2() series aircraft with Lycoming 540 series engines
 - NOTE 1: These propellers are installed on, but not limited to, the aircraft applications listed in Table 2.
 - NOTE 2: The parenthesis shown in the model designations throughout this Service Bulletin indicate letter(s) or number(s) that may or may not be present because of different configurations permitted on the various aircraft installations. Definition of propeller model designations and further details of letter(s) or number(s) that may be present are shown in Figure 1.

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

- NOTE 3: Propellers manufactured after April 1997 have a suffix letter "B" at the end of the hub and propeller serial numbers. Hub serial numbers without suffix letter "A" or "B" were manufactured before 1991 and can be identified by two different styles of the fillet radius as shown in Figure 2. "A" suffix serial number hubs can be identified by the fillet radius shown in Figure 2. These hubs have been produced from December 1991 through April 1997. Additional "A" suffix hub serial numbers are shown in Table 1. These hubs have been modified and differ slightly in appearance from those shown in Figure 2. "B" suffix serial number hubs are identified by the lack of a fillet radius at the blade socket shown in Figure 2. These hubs are current production made since April 1997. The "E" suffix letter is added to the hub serial number to indicate that the initial eddy current inspection has been performed and a repetitive eddy current inspection is required.
- (2) Propellers with a suffix letter "B" at the end of the hub and propeller serial number are not affected by this Service Bulletin.
- (3) Applications that have NOT previously complied with the terminating action in a previous revision of this Service Bulletin or with the terminating action in FAA Airworthiness Directive 2001-23-08 ARE affected by this Service Bulletin.
- (4) Applications that have previously complied with the terminating action in a previous revision of this Service Bulletin or with the terminating action in FAA Airworthiness Directive 2001-23-08 are NOT affected by this Service Bulletin.

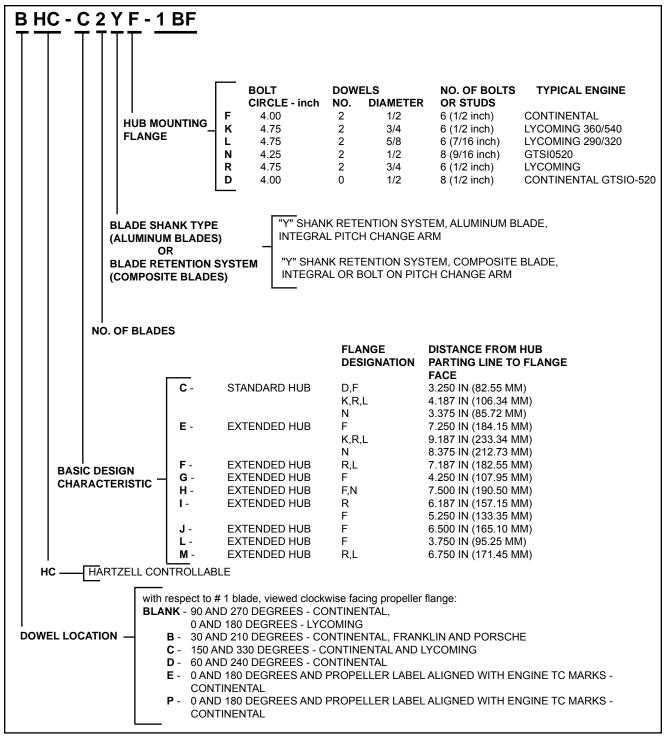
B. Concurrent Requirements

- (1) Installation of a "B" serial number suffix hub will require spinner bulkhead modification or replacement in accordance with the Repair/Modification chapter of Hartzell Spinner Assembly Maintenance Manual 127 (61-16-27).
 - (a) Applications with non-Hartzell spinner assemblies should contact the applicable Type Certificate holder for rework instructions.
- (2) Additional service documents may apply to the components/propellers affected by this Service Bulletin. Compliance with additional service documents may be necessary in conjunction with the completion of the Accomplishment Instructions in this Service Bulletin. Refer to the Hartzell Propeller website at www.hartzellprop.com for a cross-reference of service documents.

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

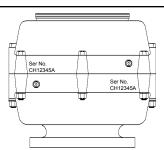


Model Designations for Aluminum Hub, Reciprocating Engine Propellers Figure 1

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection



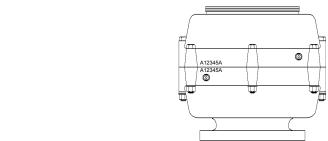
Blade Number 1



Left side of hub from No. 1 blade Propeller serial number

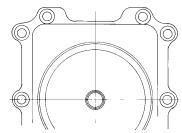
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Right side of hub from No. 1 blade Hub serial number



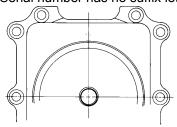
Location of lubrication fittings before 1983

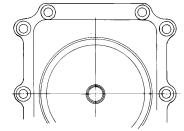
Location of lubrication fittings after 1983



"Fillet radius" on hubs made before 1983. Serial number has no suffix letter.

"Fillet radius" on hubs made between 1983 and 1991. Serial number has no suffix letter.





Hubs made December 1991 thru April 1997, have the suffix "A" in the serial number (See additional "A" suffix hubs in Table 1)

Current hub design, has the suffix "B" in the serial number and is not affected by this Service Bulletin, "fillet radius" not present on "B" serial number suffix hubs

Hub Identification Figure 2

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

C. Reason

WARNING:

UNUSUAL OR ABNORMAL GREASE LEAKAGE OR VIBRATION, WHERE THE CONDITION INITIATED SUDDENLY, CAN BE AN INDICATION OF A FAILING PROPELLER BLADE OR BLADE RETENTION COMPONENT. AN INFLIGHT BLADE SEPARATION MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE. UNUSUAL OR ABNORMAL GREASE LEAKAGE OR VIBRATION DEMANDS IMMEDIATE INSPECTION FOR POSSIBLE CRACKED HUB (FOR FURTHER INFORMATION ON THIS SUBJECT SEE HARTZELL SERVICE LETTER HC-SL-61-165).

- (1) There have been numerous occurrences of hub fillet radius cracks, including incidents of in-flight blade separation in Hartzell two blade "compact" series aluminum hub propellers. Cracks were typically discovered during an inspection following reports of abnormal vibration or grease leakage. Cracks typically initiate in the same region of the hub in the area adjacent to the blade called the "fillet radius". As the cracks propagate toward the center of the hub, their progression accelerates and may result in the failure of one hub half that can progress to blade separation.
- (2) Several of these events have occurred after the issuance of Hartzell Service Bulletin 164, FAA Airworthiness Directive 90-02-23, both of which required a 50 hour repetitive visual inspection of the hub. Because these cracks have proven difficult to detect visually, this Service Bulletin was issued to replace Service Bulletin 164 and requires a repetitive eddy current inspection. FAA enforced Revision 2 of this Service Bulletin through their issuance of Airworthiness Directive 2001-23-08.
- (3) Because of continuing events, Revision 3 to this Service Bulletin was released to require a reduction in the repetitive inspection interval and to expand the inspection region from what was required in AD2001-23-08.
- (4) Three of the recent cracked hubs occurred on hubs with an "A" serial number suffix. All three of these hubs cracked in the rear hub half, whereas the failures seen in the earlier design hub (without a serial number suffix) occurred on the front hub half. The design changes indicated by the "A" suffix are considered an improvement over the original, earlier design, but this evidence suggests that installation of "A" suffix hubs may not be a solution to the cracking problem. To alleviate concerns over the "A" hub design, and because the rear of the hub is not easily inspected, there is a requirement to replace all "A" suffix hubs with the current design "B" suffix hub.
- (5) Updated regulatory action is not expected.

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

D. Description

- (1) This document provides Instructions for Continued Airworthiness (ICA).
- (2) The inspection area has been expanded to include the surface surrounding the balance weight attachment hole, the unchamfered area surrounding the hub clamping bolt hole, and hub fillet radius. The balance weight attachment hole and hub clamping bolt hole do not require eddy current inspection.
- (3) This Service Bulletin provides requirements for:
 - (a) An initial and recurring eddy current inspection of the propeller hub fillet radius of hubs that <u>do not have</u> an "A" or "B" serial number suffix.
 - (b) An initial and recurring eddy current inspection of the propeller hub fillet radius of "A" suffix hubs listed in Table 1 of this Service Bulletin.
 - (c) Optional replacement of the hub as a terminating action for hubs that do not have an "A" or "B" serial number suffix.
 - (d) Mandatory replacement of "A" suffix hubs, including those hubs listed in Table 1 of this Service Bulletin.
- (4) Revision 4 reduced the repetitive interval for the eddy current inspection.
- (5) Revision 6 introduces the optional terminating action of converting to the oil-filled configuration for hubs without an "A" or "B" suffix serial number.

E. Compliance

- (1) Hubs without "A" or "B" serial number suffix (Hubs made before December 1991 see Figure 2)
 - (a) Perform the expanded eddy current inspection described in this revision within the next 50 hours of operation since the last inspection performed in accordance with Hartzell Service Bulletins 164() or HC-SB-61-227 or Airworthiness Directives 90-02-23 or 2001-23-08 or within 50 hours from the effective date of this Service Bulletin, whichever occurs first.
 - (b) After the initial inspection perform the eddy current inspection described in this revision at intervals not to exceed 100 hours of operation.

NOTE: A propeller hub from an aircraft that is affected by this Service Bulletin is not to be removed and reused on another aircraft application that does not have such inspection requirements. Such hub interchangeability is no longer authorized for the applications listed in Effectivity paragraph 1.A.(1). If propeller service history or other records indicate that such a replacement was made in the past, then the 100 hour repetitive inspection should be continued regardless of aircraft model installed.

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

- (c) Optional Terminating Action Replacement of the propeller hub with a "B" suffix serial number hub is a terminating action for this Service Bulletin. These hubs have a different part number and are identified by suffix letter "B" at the end of the propeller serial number. Refer to section 2. Material Information, for part number information.
- (d) Optional Terminating Action Modification of the propeller hub to the oil-filled configuration in accordance with Hartzell Service Letter HC-SL-61-273.
 - Modification of the affected propeller to the oil-filled configuration, in accordance with Hartzell Service Letter HC-SL-61-273, is an optional terminating action for the inspection requirements specified in this Service Bulletin.
 - A propeller that has been modified to the oil-filled configuration, in accordance with this Service Bulletin and Hartzell Service Letter HC-SL-61-273, must not be installed on any other application, including experimental.
- (2) "A" suffix hubs listed in Table 1.
 - (a) Perform the eddy current inspection described in this document within the next 50 hours of operation since the last inspection performed in accordance with Hartzell Service Bulletins 164() or HC-SB-61-227 or Airworthiness Directives 90-02-03 or 2001-23-08 or within 50 hours from the date of this Service Bulletin, whichever occurs first.
 - (b) After the initial inspection, perform the eddy current inspection described in this revision at intervals not to exceed 100 hours of operation.
 - (c) Replace the hub with a "B" suffix hub at the next overhaul, not to exceed 1000 hours or 72 months from December 24, 2001, the effective date of Airworthiness Directive 2001-23-08.

NOTE: A propeller hub from an aircraft that is affected by this Service Bulletin is not to be removed and reused on another aircraft application that does not have such inspection requirements.

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

- (3) "A" suffix hubs not listed in Table 1 (Hubs made between December 1991 and April 1997 see Figure 2)
 - (a) <u>Non-agricultural, Non-aerobatic applications</u>: Replace the hub at the next overhaul, not to exceed 2000 hours or 72 months from December 24, 2001, the effective date of Airworthiness Directive 2001-23-08.
 - (b) <u>Agricultural applications</u>: Replace the hub at next overhaul, not to exceed 2000 hours or 36 months from December 24, 2001, the effective date of Airworthiness Directive 2001-23-08.
 - (c) <u>Aerobatic applications</u>: Replace the hub at next overhaul, not to exceed 1000 hours or 72 months from December 24, 2001, the effective date of Airworthiness Directive 2001-23-08.

NOTE: A propeller hub from an aircraft that is affected by this Service Bulletin is not to be removed and reused on another aircraft application that does not have such inspection requirements.

F. Approval

- (1) This Service Bulletin is approved by the Manager, FAA, Chicago Aircraft Certification Office, ACE 115C, by approval document dated August 27, 2012 as an alternate method of compliance with Airworthiness Directive 2001-23-08 as follows:
 - (a) This Service Bulletin is an alternate method of compliance for AD 2001-23-08 paragraphs (a) through (e).
 - (b) This revision to the Service Bulletin includes an additional alternate method of compliance for AD 2001-23-08 paragraph (e), Terminating Action.

G. Manpower

(1) Eddy current inspection on-wing

Eddy Current Inspection

Spinner dome removal and installation

Total man-hours

0.5 Man-hours

0.5 man-hours

1.0 man-hours

(2) Propeller hub replacement:

Propeller Removal/Installation 2.0 man-hours
Propeller Hub Replacement 6.0 man-hours
Total man-hours 8.0 man-hours

NOTE: Hub replacement, when accomplished in conjunction with propeller overhaul, requires no additional labor.

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

(3) Spinner bulkhead modification 3.0 man-hours (if required because of hub replacement)

(4) Propeller hub modification:

Propeller Removal/Installation 2.0 man-hours
Propeller Disassembly/Assembly 4.0 man-hours
Propeller Hub Modification 2.0 man-hours
Total man-hours 8.0 man-hours

If required, Teflon Removal/Installation 1.0 man-hours per blade

<u>NOTE</u>: Hub disassembly/assembly and Teflon® removal/installation do not

require additional labor when accomplished in conjunction with

propeller overhaul.

H. Weight and Balance

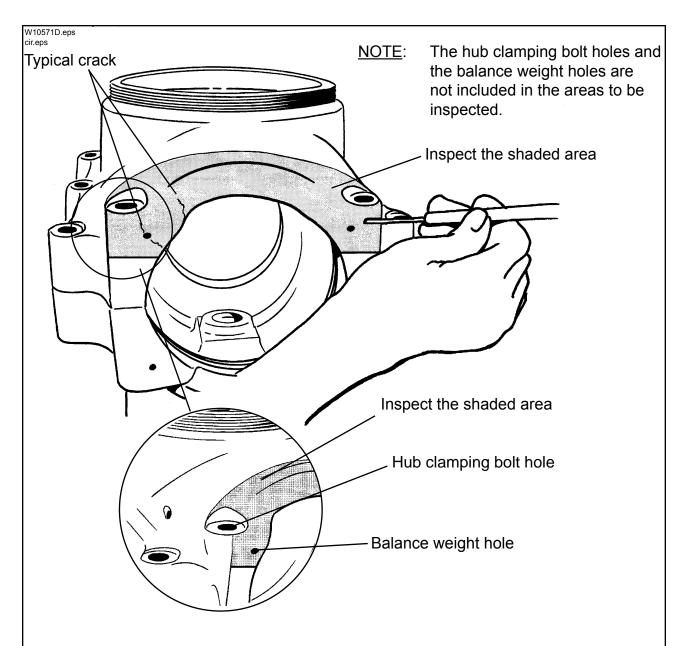
- (1) There is a 0.50 lb. (0.23 kg) increase in weight with installation of a hub with suffix letter "B" in the serial number.
- (2) There is a 0.50 lb. (0.23 kg) increase in weight with hub modification to the oil-filled configuration.
- I. Electrical Load Data
 - (1) Not Changed
- J. References
 - (1) Hartzell Standard Practices Manual 202A (61-01-02)
 - (2) Hartzell Propeller Owner's Manual 115 (61-00-15)
 - (3) Hartzell Propeller Owner's Manual 145 (61-00-45)
 - (4) Hartzell Compact and Lightweight Compact Non-Feathering (-1) and Aerobatic (-4) Propeller Overhaul and Maintenance Manual 113B (61-10-13)
 - (5) Hartzell Compact Constant Speed and Feathering Propeller Overhaul Manual 117D (61-10-17)
 - (6) Hartzell Metal Spinner Maintenance Manual 127 (61-16-27)
 - (7) Hartzell Service Letter HC-SL-61-273
 - (8) Airworthiness Directive 90-02-23
 - (9) Airworthiness Directive 2001-23-08
- K. Other Publications Affected

None

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection



Circled areas encompass the "fillet radius", must be inspected.

<u>Hubs with no "A" or "B" serial number suffix, and hubs listed in Table 1:</u> Inspect highlighted area on each blade socket (forward hub half) during on-wing inspection, and four points (both hub halves) during overhaul inspection.

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

2. Material Information

- A. Parts Required
 - (1) If the hub is replaced, see the hub replacement information below.

Previous Hub		Replacement Hub
Part Number	<u>Description</u>	Part Number
D-2201-1	Hub Unit	D-6531-41
D-2201-2	Hub Unit	D-6522-21
D-2201-2R	Hub Unit	D-6522-21R
D-2201-3	Hub Unit	D-6529-41
D-2201-5	Hub Unit	D-6531-42
D-2201-6	Hub Unit	D-6522-22
D-2201-7	Hub Unit	D-6529-42
D-2201-16	Hub Unit	D-6522-21
D-2201-16R	Hub Unit	D-6522-21R
D-2201-17	Hub Unit	D-6529-41
D-2201-24	Hub Unit	D-6530-30
D-2477-3	Hub Unit	D-6564-21
D-4214	Hub Unit	D-6557-42

- (2) Refer to Hartzell Metal Spinner Maintenance Manual 127 (61-16-27) for spinner bulkhead replacement part numbers and/or modification information.
- B. Special Tooling
 - (1) An Eddy Current Instrument is required. Refer to Hartzell Standard Practices Manual 202A (61-01-02) for details.
- C. Material Necessary for Propeller Modification to the oil-filled configuration:
 - Refer to Hartzell Service Letter HC-SL-61-273 for a complete list of requirements.

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

3. Accomplishment Instructions

- A. Hub Inspection Hubs without an "A" or "B" serial number suffix
 - (1) Inspection of the fillet radii of the (front) cylinder half of the propeller hub may be performed "on-wing" without removing the propeller from the engine.
 - (2) This inspection must be performed by qualified personnel at an appropriately licensed propeller service facility or a certificated aircraft mechanic with an eddy current qualification in accordance with the Eddy Current Inspection chapter of Hartzell Standard Practices Manual 202A.
 - (3) If inspection is performed during propeller overhaul or if the propeller has been removed from the aircraft and disassembled, both halves of the hub are to be inspected.
 - (4) On-Wing inspection procedure Hubs without "A" or "B" serial number suffix :
 - (a) Remove the spinner dome in accordance with the applicable owner's manual.
 - (b) If the propeller has blade counterweights, position the blades to provide maximum exposure of the forward hub half fillet radius area.

NOTE: If the propeller does not have blade counterweights, special positioning of blades is not required.

<u>1</u> For propellers models ()HC-()2Y()-<u>2(</u>) with counterweighted propeller blades, perform engine run and shut down with propeller blades in the feathered position. This will position the blade counterweights to provide maximum exposure of the forward hub half fillet radius area.

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

M	VARNING 1: DO NOT	USE BLADE PADDLES	TO <u>FEATHER</u> THE
_	PROPEI	LLER. IT IS POSSIBLE F	FOR EXCESSIVE
	LOADS	TO BE APPLIED WITH E	BLADE PADDLES AND
	RESULT	IN HIDDEN DAMAGE T	TO THE PITCH CHANGE
	MECHA	NISM.	

WARNING 2: CARE MUST BE TAKEN TO UNFEATHER THE PROPELLER IN ACCORDANCE WITH SECTION 3.(A)(7).

For propellers models ()HC-()2Y()-4() with counterweighted propeller blades (used on acrobatic aircraft), manually turn blades from high to low pitch to move the counterweight away from the inspection area (there is no pitch return spring in these propeller models and the blades can be turned manually without the use of blade paddles). This will position the blade counterweights to provide maximum exposure of the forward hub half fillet radius area.

CAUTION: BALANCE WEIGHTS MUST BE RETURNED TO THE SAME LOCATION ON THE HUB FROM WHICH THEY WERE REMOVED.

- (c) Remove balance weights and make note of location as necessary.
 - NOTE: ()HC-()2Y()-(2,4)() propellers with balance weights installed may require removal from the aircraft for disassembly to permit removal of the balance weights behind counterweights.
- (d) Before any cleaning, visually inspect for a cracked hub in the area of the hub fillet radii (a cracked hub can have traces of grease coming from the crack making the crack more visible).
- (e) Clean the surface of the hub to remove oil, grease, or other contaminants that may interfere with the efficiency of the eddy current inspection.
 - <u>NOTE</u>: Paint removal is not required for eddy current inspection.
- (f) Perform eddy current inspection in accordance with procedures in Hartzell Standard Practices Manual 202A. See Figure 3.

NOTE: The inspection area has been expanded to include the surface surrounding the balance weight attachment hole, the unchamfered area surrounding the hub clamping bolt hole, and hub fillet radius. The balance weight attachment hole and hub clamping bolt hole do not require eddy current inspection.

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SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

- (5) If a crack indication is found, hub replacement is required before further flight. Report any findings of a cracked hub to the Hartzell Propeller Product Support Department.
- (6) If no crack indications are found,
 - (a) After the first inspection only, permanently identify the hub to indicate compliance with this Service Bulletin. Use a metal impression stamp (0.125 inch [3.175 mm]), round bottom characters) to stamp the letter E at the end of the propeller serial number. For example, propeller serial number DN1234 would be changed to DN1234E. This change is to be noted in the propeller logbook so that it provides further indication that this Service Bulletin is applicable.

CAUTION: BALANCE WEIGHTS MUST BE RETURNED TO THE SAME LOCATION ON THE HUB FROM WHICH THEY WERE REMOVED.

- (b) Reinstall balance weights and fasteners from the location they were removed. Refer to the Static and Dynamic Balance chapter of Hartzell Standard Practices Manual 202A (61-01-02).
- (7) If the blades were required to be placed in feather position to perform this inspection, the blades may be unfeathered using the procedure below:
 - (a) Remove the valve cap.
 - (b) Using a suitable device, depress the valve stem to relieve the air charge from the cylinder.

The following hubs, part number D-2201-16, were shipped to British Aerospace for intended use on BAE 125 Bulldog aircraft. These hubs were reworked to have the post-1991 style "fillet radius".

 DN3607A
 DN3641A

 DN3609A
 DN3940A

 DN3613A
 DN3944A

 DN3615A
 DN3949A

 DN3628A
 DN3962A

 DN3630A
 DN3962A

BAE 125 Bulldog
Table 1

Jan 16/98 Revision 6, dated Aug 27/12

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

CAUTION 1: REPOSITION BLADES WITH CARE. DO NOT USE A SINGLE

BLADE PADDLE TO REPOSITION BLADES. IT IS POSSIBLE FOR EXCESSIVE LOADS TO BE APPLIED WITH BLADE PADDLES AND RESULT IN HIDDEN DAMAGE TO THE PITCH

CHANGE MECHANISM.

CAUTION 2: DO NOT PUT BLADE PADDLES ON DEICE BOOTS, AS

BOOTS MAY BE DAMAGED.

(c) Using a blade paddle on each blade, simultaneously move both blades from the feather position to the low pitch position.

- (d) Remove the blade paddles.
- (e) For propellers that use an air charge, recharge the cylinder in accordance with the applicable owner's manual.
 - 1 Reinstall the air valve cover cap and spinner dome in accordance with the applicable owner's manual.
- (g) Proceed to section 3.A.(9).
- (8) If the blades were not required to be feathered to perform this inspection, reinstall the spinner dome in accordance with the applicable owner's manual.
- (9) Make an entry in the propeller logbook indicating compliance with the hub inspection requirement of this Service Bulletin noting the time for the next inspection.
- B. Hub Inspection "A" Suffix Hubs Listed in Table 1.
 - (1) Hubs listed in Table 1 of this bulletin are to be initially and repetitively inspected, until a terminating action is accomplished, using the procedure detailed in section 3.A. of this Service Bulletin.
 - (2) Hubs listed in Table 1 of this bulletin must be replaced in accordance with section 1.E.(2) of this Service Bulletin.
- C. Hub Inspection "A" Suffix Hubs Not Listed in Table 1.
 - (1) No hub inspection is required for "A" suffix hubs.
 - (2) "A" suffix hubs must be replaced in accordance with section 1.D.(3) of this Service Bulletin.

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

D. Hub Replacement

- (1) Hub replacement must be performed by qualified personnel at an appropriately licensed propeller service facility. Replacement of the existing hub with a hub identified by a "B" suffix letter in the propeller serial number is terminating action for this Service Bulletin.
- (2) Hubs without a "B" suffix in the serial number that are removed from aircraft applications affected by this Service Bulletin [as defined in Effectivity, section 1.A.(1)] must not be reused on another aircraft application that does not have such inspection requirements. A hub removed from an affected aircraft must either be installed on another affected application, or be retired in accordance with Hartzell Standard Practices Manual 202A (61-01-02).
- (3) For spinner bulkhead modification or replacement part numbers, refer to the Repair and Modification chapter of Hartzell Metal Spinner Maintenance Manual 127 (61-16-27).
- (4) Make an entry in the propeller logbook indicating compliance with the hub replacement instructions as terminating action for this Service Bulletin.
- E. Optional Propeller Modification to the Oil-filled Configuration

WARNING: MODIFICATION TO THE OIL-FILLED CONFIGURATION IS ONLY APPROVED FOR PROPELLERS AFFECTED BY THIS SERVICE BULLETIN.

- (1) Affected propeller models without an "A" or "B" suffix serial number may be modified to the oil-filled configuration as terminating action for this Service Bulletin.
 - (a) Modification of the propeller hub to the oil-filled configuration must be performed by qualified personnel at an appropriately licensed propeller service facility.
 - (b) Modification of the propeller hub to the oil-filled configuration must be performed in accordance with Hartzell Service Letter HC-SL-61-273.
 - (c) A propeller modified to the oil-filled configuration, must not be restored to the grease lubricated configuration.
- (2) Make an entry in the propeller logbook indicating compliance with the Propeller Modification to the Oil-filled Configuration instructions as terminating action for this Service Bulletin.
- F. Recommended Service Facilities
 - (1) Hartzell Propeller has a worldwide network of Recommended Service Facilities that are recommended by Hartzell Propeller for overhaul and repair of our products.

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

- (2) Each service facility must meet standard FAA requirements and additional Hartzell Propeller requirements before being recommended by Hartzell Propeller. Each service facility is audited by Hartzell Propeller to verify the continuation of the standards.
- (3) Hartzell Propeller recommends that you use one of these service facilities when having your propeller overhauled or repaired.
- (4) For a current list of Hartzell Propeller Recommended Service Facilities, contact Hartzell Product Support or refer to the Hartzell Propeller website at www.hartzellprop.com.

G. Contact Information

Hartzell Propeller Inc.

Attn.: Hartzell Product Support

One Propeller Place

Piqua, Ohio 45356-2634 USA Phone: (001) 937.778.4379 Fax: (001) 937.778.4391

E-mail: techsupport@hartzellprop.com

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

Aerospatiale (Socata) TB-30 EPSILON Un Akrotech Ex G-200 Ex American Champion (Bellanca) DW-1 EAGLE BGCBC SCOUT ST 8GCBC SCOUT A2 8GCBCT SCOUT ST 8KCAB DECATHLON A2 8-AUIT EX S-1T PITTS EX S-1T PITTS EX S-1T PITTS EX S-1T PITTS EX S-2A PITTS A8 S-2A PITTS A8 S-2A PITTS EX S-2S PITTS ST Britten Norman BN-2(A,B)-26,27 BN-2(A,B)-26,27	Inknown xperimental xperimental Inknown TC-SA530AL 21CE TC-SA530AL 21CE 23CE 21CE xperimental	O-360-A1A AEIO-540-L1B5D AEIO-360-A1E AEIO-360-A1E IO-540-M1B5D O-360-C2A, C1A, C2E, C1E O-360-C2A, C2E, C1A, C1E IO-360-C1A, C2A, C1E, C2E AEIO-320-E1B; IO-320-E1(A,B) AEIO-320-E1B; IO-320-E1(A,B) AEIO-360-A1D AEIO-360-A1D AEIO-360-A1D AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A	HC-C2YL-4, -4F, -4BF HC-C2YR-1A HC-C2YK-4CF HC-C2YK-4CF HC-C2YK-4CF HC-C2YR-1A HC-C2YR-1AX1 HC-C2YR-8X1 HC-C2YK-4CF HC-C2YK-4CF HC-C2YK-4AF HC-C2YR-4CF	7666A-2 FC8475-6 7690C 7690C F8475R F7666A 7666A 7666A FC7663-4 FC7666A-2 7690A FC7666A-2 7690C 7690C 7690C 7690C 7690C 7690C FC7666A-2
Aerospatiale (Socata) TB-30 EPSILON Un Akrotech Ex G-200 Ex American Champion (Bellanca) DW-1 EAGLE BGCBC SCOUT ST 8GCBC SCOUT A2 8GCBC T SCOUT ST 8KCAB DECATHLON A2 8KCAB DECATHLON A2 8KCAB DECATHLON A2 8KCAB DECATHLON A2 Aviat Ex EAGLE Ex EAGLE Ex S-1T PITTS Ex S-1T PITTS Ex S-1T PITTS Ex S-2A PITTS A8 S-2A PITTS A8 S-2A PITTS Ex S-2S PITTS ST Britten Norman BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A-2,3,20,21; BN-2B-20,21	Inknown xperimental xperimental Inknown TC-SA530AL 21CE TC-SA530AL 21CE 21CE 23CE 21CE xperimental	AEIO-340-L1B5D AEIO-360-A1E AEIO-360-A1E IO-540-M1B5D O-360-C2A, C1A, C2E, C1E O-360-C2A, C2E, C1A, C1E IO-360-C1A, C2A, C1E, C2E AEIO-320-E1B; IO-320-E1(A,B) AEIO-320-E1B; IO-320-E1(A,B) AEIO-360-A1D AEIO-360-A1D AEIO-360-A1D AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YR-4CF HC-C2YR-1A HC-C2YR-1BF HC-C2YR-1BF HC-C2YR-1BF HC-C2YR-1BF HC-C2YR-1 HC-C2YL-4F HC-C2YL-4F HC-C2YL-4F, -4F, -4BF HC-C2YR-1A HC-C2YR-4CF HC-C2YR-4CF HC-C2YR-4CF	FC8475-6 7690C 7690C F8475R F7666A 7666A 7666A FC7663-4 FC7663-4 FC7666A-2 7690A FC7666A-2 7690C 7690C 7690C 7690C FC7666A-2 FC7666A-2 FC7666A-2 FC7666A-2
TB-30 EPSILON Un Akrotech G-200 Ex G-200 Ex American Champion (Bellanca) DW-1 EAGLE 8GCBC SCOUT ST 8GCBC SCOUT ST 8GCBC SCOUT ST 8KCAB DECATHLON A2 8CBAGLE EX	experimental exper	AEIO-360-A1E AEIO-360-A1E IO-540-M1B5D O-360-C2A, C1A, C2E, C1E O-360-C2A, C2E, C1A, C1E IO-360-C1A, C2A, C1E, C2E AEIO-320-E1B; IO-320-E1(A,B) AEIO-320-E1B; IO-320-E1(A,B) AEIO-360-A1D AEIO-360-A1D AEIO-360-A1D AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YR-1A HC-C2YR-1BF HC-C2YR-1BF HC-C2YR-1BF HC-C2YR-1 HC-C2YR-1 HC-C2YL-4F HC-C2YL-4, -4F, -4BF HC-C2YR-1A HC-C2YR-4AF, -4CF HC-C2YR-4CF HC-C2YK-4CF HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-4CF HC-C2YR-4CF HC-C2YR-4CF	7690C 7690C F8475R F7666A 7666A 7666A FC7663-4 FC7666A-2 7690A FC7666A-2 7690C 7690C 7690C 7690C FC7666A-2 FC7666A-2 FC7666A-2
Akrotech G-200 Ex G-200 Ex American Champion (Bellanca) DW-1 EAGLE 8GCBC SCOUT ST 8GCBC SCOUT ST 8GCBC SCOUT ST 8KCAB DECATHLON A2 8CEST S-1T PITTS Ex S-2A PITTS A8 S-2A PITTS A8 S-2A PITTS A8 S-2A PITTS A8 S-2A PITTS Ex S-2A PITTS Ex S-2A PITTS Ex S-2A PITTS Ex S-2B PI	experimental exper	AEIO-360-A1E AEIO-360-A1E IO-540-M1B5D O-360-C2A, C1A, C2E, C1E O-360-C2A, C2E, C1A, C1E IO-360-C1A, C2A, C1E, C2E AEIO-320-E1B; IO-320-E1(A,B) AEIO-320-E1B; IO-320-E1(A,B) AEIO-360-A1D AEIO-360-A1D AEIO-360-A1D AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YR-1A HC-C2YR-1BF HC-C2YR-1BF HC-C2YR-1BF HC-C2YR-1 HC-C2YR-1 HC-C2YL-4F HC-C2YL-4, -4F, -4BF HC-C2YR-1A HC-C2YR-4AF, -4CF HC-C2YR-4CF HC-C2YK-4CF HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-4CF HC-C2YR-4CF HC-C2YR-4CF	7690C 7690C F8475R F7666A 7666A 7666A FC7663-4 FC7666A-2 7690A FC7666A-2 7690C 7690C 7690C 7690C FC7666A-2 FC7666A-2 FC7666A-2
G-200 Ex G-200 Ex American Champion (Bellanca) DW-1 EAGLE 8GCBC SCOUT ST 8GCBC SCOUT ST 8GCBC SCOUT ST 8KCAB DECATHLON A2 Aviat EAGLE EX EAGLE EX S-1T PITTS A8 S-1T PITTS EX S-1T PITTS EX S-1T PITTS EX S-2A PITTS A8 S-2A PITTS A8 S-2A PITTS A8 S-2A PITTS A8 S-2A PITTS EX S-2A PITTS EX S-2A PITTS EX S-2A PITTS EX S-2B PITTS EX S-2	Inknown TC-SA530AL 21CE TC-SA530AL 21CE 21CE 23CE 21CE xperimental	AEIO-360-A1E IO-540-M1B5D O-360-C2A, C1A, C2E, C1E O-360-C2A, C2E, C1A, C1E IO-360-C1A, C2A, C1E, C2E AEIO-320-E1B; IO-320-E1(A,B) AEIO-320-E1B; IO-320-E1(A,B) AEIO-360-A1D AEIO-360-A1D AEIO-360-A1D AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AIO-360-A1E AIO-360-A1E AIO-360-A1E AIO-360-A1E AIO-360-A1E AIO-360-A1A, AIO-360-A1(A,E) IO-360-A1A, AIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YR-1AX2 HC-C2YR-1BF HC-C2YR-1BF HC-C2YR-1 HC-C2YR-1 HC-C2YL-4 HC-C2YL-4, -4F, -4BF HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-4CF HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-4CF HC-C2YR-8X1 HC-C2YR-4CF HC-C2YK-4CF HC-C2YK-4CF HC-C2YR-4CF	7690C F8475R F7666A 7666A 7666A FC7663-4 FC7666A-2 7690A FC7666A-2 7690C 7690C 7690C 7690C FC7666A-2 FC7666A-2 FC7666A-2 FC7666A-2
G-200 Ex American Champion (Bellanca) DW-1 EAGLE 8GCBC SCOUT 8GCBC SCOUT 8GCBC SCOUT 8KCAB DECATHLON 8KCAB DECATHLON 8KCAB DECATHLON A2 8KCAB DECATHLON A2 AViat EAGLE EAGLE EAGLE EAGLE EAGLE EAGLE S-1T PITTS S-1T PITTS S-1T PITTS S-1T PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2B PITTS S-2P PITTS S-2B PITTS S-2B PITTS S-3C PITTS S-4B S-4D PITTS S-5C PITTS S-7C PITTS	Inknown TC-SA530AL 21CE TC-SA530AL 21CE 21CE 23CE 21CE xperimental	AEIO-360-A1E IO-540-M1B5D O-360-C2A, C1A, C2E, C1E O-360-C2A, C2E, C1A, C1E IO-360-C1A, C2A, C1E, C2E AEIO-320-E1B; IO-320-E1(A,B) AEIO-320-E1B; IO-320-E1(A,B) AEIO-360-A1D AEIO-360-A1D AEIO-360-A1D AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AIO-360-A1E AIO-360-A1E AIO-360-A1E AIO-360-A1E AIO-360-A1E AIO-360-A1A, AIO-360-A1(A,E) IO-360-A1A, AIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YR-1AX2 HC-C2YR-1BF HC-C2YR-1BF HC-C2YR-1 HC-C2YR-1 HC-C2YL-4 HC-C2YL-4, -4F, -4BF HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-4CF HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-4CF HC-C2YR-8X1 HC-C2YR-4CF HC-C2YK-4CF HC-C2YK-4CF HC-C2YR-4CF	7690C F8475R F7666A 7666A 7666A FC7663-4 FC7666A-2 7690A FC7666A-2 7690C 7690C 7690C 7690C FC7666A-2 FC7666A-2 FC7666A-2 FC7666A-2
American Champion (Bellanca) DW-1 EAGLE 8GCBC SCOUT 8GCBC SCOUT 8GCBC SCOUT 8KCAB DECATHLON 8KCAB DECATHLON A2 8KCAB DECATHLON A2 8KCAB DECATHLON A2 AViat EAGLE EAGLE EAGLE S-1T PITTS S-1T PITTS S-1T PITTS S-1T PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2B PITTS S-2B PITTS S-2P PITTS S-2P PITTS CS-2P PITTS CS-3P PITTS CS-4P PITTS CS-4P PITTS CS-5P PITT	Inknown TC-SA530AL 21CE TC-SA530AL 21CE 23CE 21CE xperimental	IO-540-M1B5D O-360-C2A, C1A, C2E, C1E O-360-C2A, C2E, C1A, C1E IO-360-C1A, C2A, C1E, C2E AEIO-320-E1B; IO-320-E1(A,B) AEIO-320-E1B; IO-320-E1(A,B) AEIO-360-A1D AEIO-360-A1D AEIO-360-A1D AEIO-360-A1D, -A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YR-1BF HC-C2YR-1BF HC-C2YR-1BF HC-C2YR-1 HC-C2YL-4F HC-C2YL-4, -4F, -4BF HC-C2YR-4BF, -4CF HC-C2YR-4CF HC-C2YK-4CF HC-C2YK-4CF HC-C2YR-1A HC-C2YR-1A HC-C2YR-1A HC-C2YR-8X1 HC-C2YR-8X1 HC-C2YK-4CF HC-C2YK-4CF HC-C2YK-4CF HC-C2YK-4CF	F8475R F7666A 7666A 7666A FC7663-4 FC7666A-2 7690A FC7666A-2, -4Q FC7666A-2 7690C 7690C FC7666A-2 FC7666A-2 FC7666A-2
DW-1 EAGLE Un 8GCBC SCOUT ST 8GCBC SCOUT A2 8GCBC SCOUT ST 8KCAB DECATHLON A2 Aviat EAGLE EX EAGLE EX S-1T PITTS A8 S-1T PITTS EX S-1T PITTS EX S-1T PITTS EX S-2A PITTS A8 S-2A PITTS A8 S-2A PITTS A8 S-2A PITTS A8 S-2S, S-2B PITTS EX S-2P PITTS EX S-2B PIT	TC-SA530AL 21CE TC-SA530AL 21CE 23CE 21CE Experimental	O-360-C2A, C1A, C2E, C1E O-360-C2A, C2E, C1A, C1E IO-360-C1A, C2A, C1E, C2E AEIO-320-E1B; IO-320-E1(A,B) AEIO-320-E1B; IO-320-E1(A,B) AEIO-360-A1D AEIO-360-A1D AEIO-360-A1D, -A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YR-1BF HC-C2YR-1BF HC-C2YR-1 HC-C2YL-4F HC-C2YL-4, -4F, -4BF HC-C2YR-4BF, -4CF HC-C2YR-1A HC-C2YK-4CF HC-C2YK-4CF HC-C2YR-1A HC-C2YR-1A HC-C2YR-1AX1 HC-C2YR-8X1 HC-C2YR-4CF HC-C2YK-4CF HC-C2YK-4CF HC-C2YK-4CF	F7666A 7666A 7666A FC7663-4 FC7663-4 FC7666A-2 7690A FC7666A-2, -4Q FC7666A-2 7690C 7690C FC7666A-2 FC7666A-2 FC7666A-2
8GCBC SCOUT 8GCBC SCOUT 8GCBC SCOUT 8GCBC SCOUT 8KCAB DECATHLON 8KCAB DECATHLON A2 8KCAB DECATHLON A2 8KCAB DECATHLON A2 Aviat EAGLE EAGLE EAGLE EAGLE S-1T PITTS S-1T PITTS S-1T PITTS S-1T PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2B PITTS S-2B PITTS S-2C PITTS S-2	TC-SA530AL 21CE TC-SA530AL 21CE 23CE 21CE Experimental	O-360-C2A, C1A, C2E, C1E O-360-C2A, C2E, C1A, C1E IO-360-C1A, C2A, C1E, C2E AEIO-320-E1B; IO-320-E1(A,B) AEIO-320-E1B; IO-320-E1(A,B) AEIO-360-A1D AEIO-360-A1D AEIO-360-A1D, -A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YR-1BF HC-C2YR-1BF HC-C2YR-1 HC-C2YL-4F HC-C2YL-4, -4F, -4BF HC-C2YR-4BF, -4CF HC-C2YR-1A HC-C2YK-4CF HC-C2YK-4CF HC-C2YR-1A HC-C2YR-1A HC-C2YR-1AX1 HC-C2YR-8X1 HC-C2YR-4CF HC-C2YK-4CF HC-C2YK-4CF HC-C2YK-4CF	F7666A 7666A 7666A FC7663-4 FC7663-4 FC7666A-2 7690A FC7666A-2, -4Q FC7666A-2 7690C 7690C FC7666A-2 FC7666A-2 FC7666A-2
8GCBC SCOUT 8GCBC SCOUT 8KCAB DECATHLON 28KCAB DECATHLON A28KCAB DECATHLON A28KCAB DECATHLON A26KCAB DECATHLON A27 AVIAT EAGLE EAGLE EAGLE EAGLE EAGLE S-1T PITTS S-1T PITTS EXIBLE S-1T PITTS S-1T PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2B PITTS S-3B PITTS S-3B PITTS S-3B PITTS S-4B PITTS S-5B PITTS S-5B PITTS S-7B PI	21CE TC-SA530AL 21CE 23CE 21CE Experimental experimental experimental experimental experimental experimental experimental experimental experimental experimental experimental experimental experimental experimental experimental experimental	O-360-C2A,C2E,C1A,C1E IO-360-C1A, C2A, C1E, C2E AEIO-320-E1B; IO-320-E1(A,B) AEIO-320-E1B; IO-320-E1(A,B) AEIO-360-H1A AEIO-360-A1D AEIO-360-A1D AEIO-360-A1D, -A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E IO-360-A1E AEIO-360-A1E AEIO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YR-1BF HC-C2YR-1 HC-C2YL-4F HC-C2YL-4, -4F, -4BF HC-C2YR-4BF, -4CF HC-C2YR-1A HC-C2YK-4CF HC-C2YK-4CF HC-C2YR-1A HC-C2YR-1AX1 HC-C2YR-8X1 HC-C2YK-4CF HC-C2YK-4CF HC-C2YK-4CF HC-C2YK-4AF HC-C2YR-4CF	7666A 7666A FC7663-4 FC7666A-2 7690A FC7666A-2, -4Q FC7666A-2 7690C 7690C FC7666A-2 FC7666A-2 FC7666A-2
8GCBCT SCOUT 8KCAB DECATHLON A2 8KCAB DECATHLON A2 8KCAB DECATHLON A2 Aviat EAGLE EAGLE EAGLE EAGLE S-1T PITTS S-1T PITTS S-1T PITTS S-1T PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2B PITTS S-3C PITTS S-4B S-4B S-5C PITTS	TC-SA530AL 21CE 23CE 21CE Experimental	IO-360-C1A, C2A, C1E, C2E AEIO-320-E1B; IO-320-E1(A,B) AEIO-320-E1B; IO-320-E1(A,B) AEIO-360-H1A AEIO-360-A1D AEIO-360-A1D, -A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360 Series IO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YR-1 HC-C2YL-4F HC-C2YL-4, -4F, -4BF HC-C2YR-4BF, -4CF HC-C2YR-1A HC-C2YK-4CF HC-C2YK-4CF HC-C2YR-1A HC-C2YR-1AX1 HC-C2YR-8X1 HC-C2YK-4CF HC-C2YK-4CF HC-C2YK-4AF HC-C2YR-4CF	7666A FC7663-4 FC7663-4 FC7666A-2 7690A FC7666A-2, -4Q FC7666A-2 7690C 7690C FC7666A-2 FC7666A-2
8KCAB DECATHLON 8KCAB DECATHLON AViat EAGLE EAGLE S-1T PITTS S-1T PITTS S-1T PITTS S-1T PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2 PITTS S-3 PITTS S-4 PITTS S-5 PITTS S-6 PITTS S-7 PITTS S-7 PITTS S-1 PITTS S-1 PITTS S-2 PITTS S-2 PITTS S-2 PITTS S-2 PITTS S-3 PITTS S-4 PITTS S-4 PITTS S-5 PITTS S-6 PITTS S-7 PITTS S-1 PITTS S-1 PITTS S-2 PITTS S-2 PITTS S-2 PITTS S-2 PITTS S-2 PITTS S-2 PITTS S-3 PITTS S-4 PITTS S-4 PITTS S-4 PITTS S-1 PITTS S-2 PITTS S-2 PITTS S-3 PITTS S-4 PITTS S-4 PITTS S-4 PITTS S-4 PITTS A8 A8 A9 A1 BN-2(A,B)-26,27 BN-2(A,B)-2(A,B)-2(B,C) A1 Cessna	21CE 23CE 21CE xperimental xperimental 8SO xperimental xperimental xperimental xperimental 8SO 8SO 8SO xperimental	AEIO-320-E1B; IO-320-E1(A,B) AEIO-320-E1B; IO-320-E1(A,B) AEIO-360-H1A AEIO-360-A1D AEIO-360-A1D, -A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360 Series IO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YL-4, -4F, -4BF HC-C2YR-1A HC-C2YK-4CF HC-C2YK-4CF HC-C2YK-4CF HC-C2YR-1A HC-C2YR-1AX1 HC-C2YR-8X1 HC-C2YK-4CF HC-C2YK-4CF HC-C2YK-4AF HC-C2YR-4CF	FC7663-4 FC7666A-2 7690A FC7666A-2, -4Q FC7666A-2 7690C 7690C FC7666A-2 FC7666A-2
8KCAB DECATHLON Aviat EAGLE EAGLE EAGLE S-1T PITTS S-1T PITTS S-1T PITTS S-1T PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2A PITTS S-2B PITTS S-2PITTS S-2P	experimental	AEIO-360-H1A AEIO-360-A1D AEIO-360-A1D AEIO-360-A1D, -A1E AEIO-360-A1E AEIO-360-A1E AEIO-360-A1E AEIO-360 Series IO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YR-4BF, -4CF HC-C2YR-1A HC-C2YK-4CF HC-C2YK-4CF HC-C2YR-1A HC-C2YR-1AX1 HC-C2YR-8X1 HC-C2YK-4CF HC-C2YK-4AF HC-C2YR-4CF	FC7666A-2 7690A FC7666A-2, -4Q FC7666A-2 7690C 7690C FC7666A-2 FC7666A-2
Aviat EAGLE	experimental	AEIO-360-A1D AEIO-360-A1D AEIO-360-A1D, -A1E AEIO-360-A1E AEIO-360-A1E AEIO-360 Series IO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YR-1A HC-C2YK-4CF HC-C2YK-4CF HC-C2YR-1A HC-C2YR-1AX1 HC-C2YR-8X1 HC-C2YK-4CF HC-C2YK-4AF HC-C2YR-4CF	7690A FC7666A-2, -4Q FC7666A-2 7690C 7690C FC7666A-2 FC7666A-2
EAGLE EX EAGLE EX EAGLE S-1T PITTS A8 S-1T PITTS EX S-1T PITTS EX S-1T PITTS EX S-2A PITTS A8 S-2A PITTS A8 S-2A PITTS A8 S-2A PITTS EX S-2A PITTS EX S-2A PITTS EX S-2B PITTS EX S-2 PITTS S-2 PITTS EX S-2 PITTS S-2	xperimental .8SO xperimental xperimental xperimental .8SO .8SO .8SO xperimental	AEIO-360-A1D AEIO-360-A1D, -A1E AEIO-360-A1E AEIO-360-A1E AEIO-360 Series IO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YK-4CF HC-C2YK-4CF HC-C2YR-1A HC-C2YR-1AX1 HC-C2YR-8X1 HC-C2YK-4CF HC-C2YK-4AF HC-C2YR-4CF	FC7666A-2, -4Q FC7666A-2 7690C 7690C 7690C FC7666A-2 FC7666A-2
EAGLE	xperimental .8SO xperimental xperimental xperimental .8SO .8SO .8SO xperimental	AEIO-360-A1D AEIO-360-A1D, -A1E AEIO-360-A1E AEIO-360-A1E AEIO-360 Series IO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YK-4CF HC-C2YK-4CF HC-C2YR-1A HC-C2YR-1AX1 HC-C2YR-8X1 HC-C2YK-4CF HC-C2YK-4AF HC-C2YR-4CF	FC7666A-2, -4Q FC7666A-2 7690C 7690C 7690C FC7666A-2 FC7666A-2
S-1T PITTS	8SO experimental experimental experimental experimental experimental experimental experimental experimental	AEIO-360-A1D, -A1E AEIO-360-A1E AEIO-360-A1E AEIO-360 Series IO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YK-4CF HC-C2YR-1A HC-C2YR-1AX1 HC-C2YR-8X1 HC-C2YK-4CF HC-C2YK-4AF HC-C2YR-4CF	FC7666A-2 7690C 7690C 7690C FC7666A-2 FC7666A-2
S-1T PITTS EX S-1T PITTS EX S-1T PITTS EX S-1T PITTS EX S-2A PITTS A8 S-2A PITTS A8 S-2S, S-2B PITTS EX S-2 PITTS EX Beech A45 (T-34A), B-45 ST Britten Norman BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 Cessna	xperimental xperimental xperimental 8SO 8SO 8SO xperimental	AEIO-360-A1E AEIO-360-A1E AEIO-360 Series IO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YR-1A HC-C2YR-1AX1 HC-C2YR-8X1 HC-C2YK-4CF HC-C2YK-4AF HC-C2YR-4CF	7690C 7690C 7690C FC7666A-2 FC7666A-2
S-1T PITTS EX S-1T PITTS EX S-1T PITTS EX S-2A PITTS A8 S-2A PITTS A8 S-2S, S-2B PITTS EX S-2A PITTS EX S-2 PITTS EX S-2 PITTS EX S-2S PITTS EX S-2S PITTS EX Beech A45 (T-34A), B-45 ST Britten Norman BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 Cessna	xperimental xperimental 8SO 8SO 8SO xperimental	AEIO-360-A1E AEIO-360 Series IO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YR-1AX1 HC-C2YR-8X1 HC-C2YK-4CF HC-C2YK-4AF HC-C2YR-4CF	7690C 7690C FC7666A-2 FC7666A-2
S-1T PITTS EX S-2A PITTS A8 S-2A PITTS A8 S-2S, S-2B PITTS A8 S-2A PITTS EX S-2 PITTS EX S-2 PITTS EX S-2S PITTS EX S-2S PITTS EX Beech A45 (T-34A), B-45 ST Britten Norman BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 Cessna	xperimental 8SO 8SO 8SO xperimental	AEIO-360 Series IO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YR-8X1 HC-C2YK-4CF HC-C2YK-4AF HC-C2YR-4CF	7690C FC7666A-2 FC7666A-2
S-2A PITTS A8 S-2A PITTS A8 S-2S, S-2B PITTS A8 S-2S, S-2B PITTS Ex S-2 PITTS Un S-2S PITTS Ex S-2S PITTS Ex Beech A45 (T-34A), B-45 ST B45 T-34A), B-45 ST B7itten Norman BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 Cessna	.8SO .8SO .8SO xperimental	IO-360-A1A, AEIO-360-A1(A,E) IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YK-4CF HC-C2YK-4AF HC-C2YR-4CF	FC7666A-2 FC7666A-2
S-2A PITTS A8 S-2S, S-2B PITTS A8 S-2S, S-2B PITTS Ex S-2 PITTS Un S-2S PITTS Ex S-2S PITTS Ex Beech A45 (T-34A), B-45 ST Britten Norman BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 Cessna	.8SO .8SO xperimental	IO-360-A1A, AEIO-360-A1(A,E) AEIO-540-D4A5 IO-360-A1A	HC-C2YK-4AF HC-C2YR-4CF	FC7666A-2
S-2S, S-2B PITTS A8 S-2A PITTS Ex S-2 PITTS Un S-2S PITTS Ex S-2S PITTS Ex Beech A45 (T-34A), B-45 5A A45 (T-34A), B-45 ST Britten Norman BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 Cessna	.8SO xperimental	AEIO-540-D4A5 IO-360-A1A	HC-C2YR-4CF	
S-2A PITTS Ex S-2 PITTS Un S-2S PITTS Ex S-2S PITTS Ex Beech A45 (T-34A), B-45 5A A45 (T-34A), B-45 ST Britten Norman BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 A2 Cessna	xperimental	IO-360-A1A		FU84//A-4
S-2 PITTS Un S-2S PITTS Ex S-2S PITTS Ex Beech A45 (T-34A), B-45 5A A45 (T-34A), B-45 ST Britten Norman BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 A2 Cessna	•			
S-2S PITTS Ex S-2S PITTS Ex Beech A45 (T-34A), B-45 5A A45 (T-34A), B-45 ST Britten Norman BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 A2 Cessna	IIKIIOWII	IU-30U-A IA	HC-C2YK-4CF HC-C2YK-4	FC7666A-2Q, -4Q C7666A
S-2S PITTS Ex Beech A45 (T-34A), B-45 5A A45 (T-34A), B-45 ST Britten Norman BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 A2 Cessna		AEIO-540-D4(A,B,C)5	HC-C2YR-4CF	FC8477-6Q
Beech A45 (T-34A), B-45 5A A45 (T-34A), B-45 ST Britten Norman BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 A2 Cessna		AEIO-540-D4A5	HC-C2YR-4CF	FC8477
A45 (T-34A), B-45 5A A45 (T-34A), B-45 ST Britten Norman BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 A2 Cessna	хреппена	ALIO-340-D4A3	110-02111-401	1 00477
A45 (T-34A), B-45 ST Britten Norman BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 A2 Cessna	Α3	IO-470N	BHC-L2YF-4F	FC8468AR
Britten Norman BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 A2 Cessna		IO-470N	BHC-L2YF-4BF	FC8468AR
BN-2;BN-2A-6,8,9; A1 BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 A2 Cessna			5.10 22.1 15.	
BN-2(A,B)-26,27 BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 A2 Cessna	.17EU	O-540-E4C5	HC-C2YK-2BF, -2CUF	(F)C8477(A)(B)-4,
BN-2A-2,3,20,21; BN-2B-20,21 A1 BN-2A MK III, MK III-2,-3 A2 Cessna			,	() () () ,
Cessna	.17EU	IO-540-K1B5	HC-C2YK-2(B,C)(U)(F)	(F)C8477(A)(B)-4
	.29EU	O-540-E4C5	HC-C2YK-2CUF	FC8477A(B)-4
A188A, A188B, ST				
	TC-SA8343SW	IO-540-K1(A,B,G)5, -S1A5	HC-C2YR-1BF	F8475R
T188C AGWAGON				
DeHavilland				
CHIPMUNK Un	Inknown	IO-540-C4B5	HC-C2YK-4CF	FC8477-4R
Embraer				
		O-540-H1B5D	HC-C2YK-1BF	F8477-4
•	Inknown	IO-540-K1F5D, -K1J5D	HC-C2YR-1BF	F8475R
Flug & Fahrzeugwerke				
		AEIO 000 D4E	110 000/1/ 455	E7000A C
	.34EU	AEIO-360-B1F	HC-C2YK-1BF	F7666A-2
Great Lakes	.34EU	AEIO-360-B1F IO-540-D4B5	HC-C2YK-1BF HC-C2YK-1BF	F7666A-2 F8477
2T-1A-1, 2T-1A-2 A1 2T-1A-2 A1	34EU xperimental			

Aircraft and Propeller Applications
Table 2, page 1 of 3

Jan 16/98 Revision 6, dated Aug 27/12

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

AIRCRAFT MODEL	FAA TC/STC NO.	ENGINE	PROPELLER	BLADE
Grob	.,			
G115D	Experimental	AEIO-360-B1F	HC-M2YR-1BF	7690E-2
G115T	Experimental	AEIO-540-D4A5	HC-C2YR-4CF	FC8477A-4
Hindustan		ALIO-340-D4A3	110-02111-401	1 0047774
HPT 32 TRAINER	Unknown	ACIO 540 DAD5	LIC COVE 4CE	FC0477 4D
	Unknown	AEIO-540-D4B5	HC-C2YR-4CF	FC8477-4R
Morovan		ALC 000 D4D	110 000/1 45	E070004 4
<u>7</u> -42	Unknown	AIO-320-B1B	HC-C2YL-4F	FC7663A-4
Z-42	Unknown	AIO-320	HC-C2YL-1B	7663A-4
526L	A30EU	AIO-360-B1B	HC-C2YK-4	C7666A-2
Mudry				
CAP 20	Unknown	AIO-360-B1A	HC-C2YK-4F	FC7666A
Pacific Aerospace				
CT4A, CT4B	Unknown	IO-360-D, -H, -HB	BHC-C2YF-1BF	F7663
Piper		• •		
PA-25-260 PAWNEE	2A8, 2A10	O-540-G1A5	HC-C2YK-1()F	F8477
PA-32-300, PA-32S-300	A3SO	IO-540-K1A5, -K1G5	HC-C2YK-1()F	F8475R
PA-32-300, PA-32S-300	A3SO	IO-540-K1A5, -K1G5	HC-C2YK-1()F	F8475(D)-4
PA-32-300, PA-32S-300	A3SO	IO-540-K1A5, -K1G5	HC-C2YK-1BF	F8475R
PA-32R-300, PA-32RT-300	A3SO	IO-540-K1A5D, -K1G5D	HC-C2YK-1()F	F8475D-4
•	A3SO A3SO	The state of the s		
PA-32RT-300T LANCE		TIO-540-S1AD	HC-E2YR-1()F	F8477-4
PA-32S-300 CHEROKEE SIX	STC-SA932EA	IO-540-K1A5	HC-C2YR-1BF	F8475+2
PA-32-301 SARATOGA	A3SO	IO-540-K1G5	HC-C2YR-1()F	F8475D-4
PA-32-301T TURBO SARATOGA		TIO-540-S1AD	HC-E2YR-1()F	F8477-4
PA-32R-301 SARATOGA SP	A3SO	IO-540-K1G5D	HC-C2YR-1()	F8475D-4
PA-32R-301T T-SARATOGA SP	A3SO	TIO-540-S1AD	HC-E2YR-1()F	F8477-4
PA-36-285 BRAVE	A9SO, A10SO	6-285-B, C, BA, CA	HC-C2YF-1BF	F9587A
PA-36-300 BRAVE	A9SO, A10SO	IO-540-K1G5	HC-C2YK-1()F	F8475R
Saab-Scania AB				
MFI-15 SAFARI/SUPPORTER	Unknown	IO-360-A1B6	HC-C2YK-4BF	FC7666A-2
MFI-17 MUSHAK	Unknown	TSIO-360-LB	HC-C2YF-1BF	F8459-9R
Scottish Aviation (BAE)				
B.125 BULLDOG	Unknown	IO-360-A1B6	HC-C2YR-4BF	FC7666A-2
Siai Marchetti (Augusta)	Officiowit	10-300-4100	110-02111-401	1070007-2
S.205-18F, 18R	A9EU	O-360-A1A	HC-C2YK-1B	7666A-2
	A9EU			
S.205-20F, 20R		IO-360-A1A	HC-C2YK-1B	7666A-2
S.208, A	A9EU	IO-540-E4A5	HC-C2YK-1BF	F8477-8R
S.208, A	A9EU	IO-540-E4A5	HC-C2YK-1B	8467-8R
S.208	Unknown	O-540-E4A5	HC-C2YK-4F	
SF.260, SF.260B	A10EU	O-540-E4A5	HC-C2YK-1B	8467-8R
SF.260, B, C, D	A10EU	O-540-E4A5, AEIO-540-D4A5	HC-C2YK-1BF	F8477-8R
SF.260, B, C, D	A10EU	O-540-E4A5, AEIO-540-D4A5	HC-C2YK-4F	FC8477-8R
F.260, F.260B	A10EU	O-540-E4A5	HC-C2YK-1B	8467-8R
F.260C, D, E	Unknown	O-540-E4A5, (AE)IO-540-D4A5	HC-C2YK-1BF	F8477-8R
F.260C, D, E, F	A10EU	O-540-E4A5, (AE)IO-540-D4A5		F8477-8R
F.260C, D, E	STC-SA302GL	O-540-E4A5, (AE)IO-540-D4A5		FC8477-8R
Skydancer Aviation		, , , , , , , , , , , , , , , , , , , ,	()	
SD-260	Experimental	IO-540-C4B5	HC-C2YR-4CF	FC8477A-4
Sorrell		.5 5 10 5 155	02111. 401	1 00 11 17 1
SNS-7	Experimental	IO-360-B1E	HC-C2YK-4CF	FC7666A-2, -4Q
	Lybelinieniai	IO-300-D IL	110-0211 1-4 0F	1 01000A-2, -4G
Staudacher Aircraft	Eva orimo estal	IO E40 K	LIC COVE 4CE	FC04774 4
STAUDACHER 300	Experimental	IO-540-K	HC-C2YR-4CF	FC8477A-4
STAUDACHER S-1000	Experimental	IO-540-D4A5	HC-C2YK-1BF	F8477

Aircraft and Propeller Applications (continued)
Table 2, page 2 of 3

Jan 16/98 Revision 6, dated Aug 27/12

SERVICE BULLETIN

HC-SB-61-227

Propeller - Hub Inspection

NOTE: Affected propellers are installed on, but not limited to, the aircraft applications listed in Table 2.					
AIRCRAFT MODI	EL	FAA TC/STC NO.	ENGINE	PROPELLER	BLADE
Steen					
SKYBOLT		Experimental	IO-360-A1A	HC-C2YR-4BF, -4CF	FC7666A-2
SKYBOLT		Unknown	IO-540-C4B5	HC-C2YK-1BF	F8477-4
SKYBOLT		Unknown	IO-360-A1B	HC-C2YR-4BF, -4CF	FC7666A-2
SKYBOLT		Unknown	IO-540-C4B5	HC-C2YK-4F	FC8477-7
Stoddard Hamilton	on				
2 SRG		Experimental	IO-360	HC-C2YR-4CF	FC7666A-4
SUPER 2SRG		Experimental	IO-360	HC-C2YR-1BF	F7068-2
Stolp					
STARDUSTER		Unknown	O-360-A1F6	HC-C2YK-4AF	FC7666A-4
STARDUSTER		Unknown	O-540-()	HC-C2YR-4CF	FC8477A-8R
STARDUSTER		Unknown	IO-540-D4A5	HC-C2YK-4AF	FC8467-7R
STARDUSTER		Unknown	IO-540-D4A5	HC-C2YK-1BF	F8467-8
Transavia					
AIRTRUK		Unknown	IO-540-K1A5	HC-C2YR-1BF	F8475+2
AIRTRUK		Unknown	6-320	HC-C2YR-1F	F9587A
Universal					
T-25 MILITARY TI	RAINER	Unknown	IO-540-K1A5	HC-C2YK-4BF	FC8475A-2
UTVA					
75AG		Unknown	AEIO-540-L1B5D	HC-C2YR-1BF	F8475D-4
75		Unknown	IO-360-B1F	HC-C2YK-1BF	F7666-2
LASTA		Unknown	AEIO-540-L1A5D	HC-C2YR-4CF	FC8475-6
Valmet					
L-70 VINKA		Unknown	IO-360-A1B6; AEIO-360-A1B6	HC-C2YR-4F	FC7666A-2
Vans					
RV-6		Experimental	IO-360 Series	HC-C2YK-4CF	FC7666A-2, -4

Aircraft and Propeller Applications (continued)
Table 2, page 3 of 3