

HARTZELL

PROPELLER LOGBOOK

PROPELLER MODEL PHC-334F-1N

PROPELLER S/N ~~FP52978~~ FP884813

LOGBOOK # 2

Date



530 West Deer Valley Road
Phoenix Arizona 85027

623-581-1444 Phone
623-581-1555 FAX

3.

Model	SR22
Serial No.	2293
Registration	N420SE
Prop Model	PHC-J3YF-1N

Propeller Log

Work Order No.	09MN-2161
Hour Meter	1069.1
Aircraft Total Time	1069.1
Prop Serial	FP5297B

Performed Annual inspection in accordance with Cirrus inspection guide Chapter 5-20 dated 15 Jun 2010.
 Removed prop to be sent out for evaluation. Received overhauled Prop p/n PHC-J3YF-1N s/n FP5297B from Warner Propeller and Governor Co. FAA CRS# W59R659N under work order 7983. Installed overhauled prop back on engine in reference to the Hartzell Propeller Owner's Manual 3-9. No leaks detected.

Maintenance Release

The aircraft or component identified above were repaired and inspected in accordance with current Federal Aviation Regulations and were found airworthy for return to service. Pertinent details of the repair are on file at this agency under the above listed work order.

Signed:

Date:

Burl Hanchett AP3165742

I certify that this aircraft propeller has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition

Signed:

Date: 6/15/11

Dan Corallo AP 895274311A

DATE:08-01-2012

N420ASE HARTZELL PHC-J3YF-IN1N7605B SN:FP5297B TT: TACH: 1161.5

I CERTIFY THIS PROPELLER HAS BEEN INSPECTED IAW A 100HR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

AP 3223179

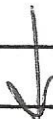
DATE: 8/27/2013

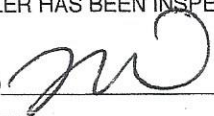

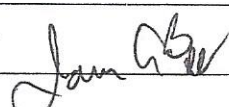

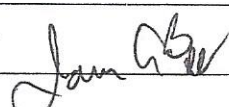

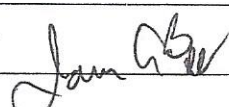
N420SE HARTZELL PHC-J3YF-IN1N7605B SN:FP5297B TT: 1204.3 HOBBS: 1204.3



I CERTIFY THIS PROP HAS BEEN INSPECTED IAW A 100HR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

AP 3223179

END



Date	Propeller TSN TSO	A/C Hrs	Description of all operations pertaining to Airworthiness Directives, Service Documents, Overhaul, Major or Minor Repair, and Inspections.																																					
11/1/2014			N420SE HARTZELL PHC-J3YF-LN SN: FP5297B HOBBS: 1225 TSOH: 155.9																																					
			PERFORMED A 100 HOUR INSPECTION IAW CIRRUS INSPECTION GUIDE CHPT 5-10. ALL ADS CURRENT THROUGH BIWEEKLY 2014-21.																																					
			I CERTIFY THAT THIS PROPELLER HAS BEEN INSPECTED IAW AN 100HR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.																																					
			NATE WILLIAMSON AP 3223179 																																					
<table border="1"> <tr> <td rowspan="4">  Glendale Aero Services 6841 N. Glen Harbor Blvd Glendale, AZ 85307 623-414-4930 </td> <td>Registration: N420SE</td> <td colspan="2" style="text-align: right;">PROPELLER LOG</td> </tr> <tr> <td>Date: 10/23/2015</td> <td>W/O: 6001374</td> <td></td> </tr> <tr> <td>Model: PHC-J3Y1F-1N</td> <td>Flt Hobbs: 1121.5</td> <td></td> </tr> <tr> <td>S/N: FP5297B</td> <td>TSMOH: 1121.5 PTSN: 1121.5</td> <td></td> </tr> <tr> <td colspan="4"> <i>Complied with annual inspection IAW 14 CFR 43 Appendix D using the Cirrus Aircraft annual inspection checklist CH 5-20 and Precise Flight/Tornado Alley ICA.</i> </td> </tr> <tr> <td colspan="4"> AD's researched thru T-Data content revision 2015-20, see attached AD compliance list for details. </td> </tr> <tr> <td colspan="4"> Serviced propeller with Aeroshell 6 grease. Inspected and profiled minor nicks in blades as required. </td> </tr> <tr> <td colspan="4"> Post maintenance ground run-up and operational checks performed with no leaks or defects noted. </td> </tr> <tr> <td colspan="4"> <i>I certify this propeller has been inspected in accordance with an Annual / 100 Hr. inspection and was determined to be in airworthy condition</i> </td> </tr> <tr> <td colspan="2">SIGNATURE: James Butler </td> <td colspan="2">FAA AUTHORIZATION: 2833700 IA</td> </tr> </table>				 Glendale Aero Services 6841 N. Glen Harbor Blvd Glendale, AZ 85307 623-414-4930	Registration: N420SE	PROPELLER LOG		Date: 10/23/2015	W/O: 6001374		Model: PHC-J3Y1F-1N	Flt Hobbs: 1121.5		S/N: FP5297B	TSMOH: 1121.5 PTSN: 1121.5		<i>Complied with annual inspection IAW 14 CFR 43 Appendix D using the Cirrus Aircraft annual inspection checklist CH 5-20 and Precise Flight/Tornado Alley ICA.</i>				AD's researched thru T-Data content revision 2015-20, see attached AD compliance list for details.				Serviced propeller with Aeroshell 6 grease. Inspected and profiled minor nicks in blades as required.				Post maintenance ground run-up and operational checks performed with no leaks or defects noted.				<i>I certify this propeller has been inspected in accordance with an Annual / 100 Hr. inspection and was determined to be in airworthy condition</i>				SIGNATURE: James Butler 		FAA AUTHORIZATION: 2833700 IA	
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March 23, 2016	N420SE S/N 2293	Hartzell PHC-J3YF-1N S/N FP5297B	Tach: 1145.7 Prop TT: 1145.7	 VectorAir Aircraft Inspection & Repair Erie Municipal Airport 395 Airport Drive Erie, Colorado 80516
Removed propeller this date, sent in for evaluation following prop strike with tow bar. -----END-----				 Terrill Shafer AP2860279IA



AIRWORTHINESS DIRECTIVES CHECK LIST

113B

HC - () (2, 3, 4) Y () - (1, 4)

Form # 113B - AD

Form Rev: 5

Form Rev Date: February 18, 2011

Page 1 of 1

44464

Technicians initials = Compliance or Confirmed Compliance

N/A = Not Applicable

Work Order:

N/A 2009-22-03

()HC-()2Y(K, R)-() series propellers installed on Lycoming 360 series engines. Eddy current inspect hubs per Hartzell bulletin HC-SB-61-269 each 100 hours. Hubs with an 'A or B' suffix at the end of the propeller serial number are not affected by this AD. This AD does not apply to Aerobatic and Agricultural aircraft (see AD 2001-23-08 for these applications).

N/A 2007-26-09

This AD supersedes AD 2002-09-08 and applies to all Hartzell Propeller Inc. models ()HC-() ()Y()-() () compact series constant speed or feathering propellers with Hartzell manufactured 'Y' shank aluminum blades. The AD requires initial blade inspection and rework, with no repetitive inspections. Prior compliance with AD 77-12-06 rev 2 is an indication of previous compliance with this AD. Blades with serial numbers higher than D47534 are also considered to be in compliance with the one time inspection and rework requirements of this AD.

N/A 2005-14-11

Inspection of propellers returned to service by Southern California Propeller Service of Inglewood, CA.

N/A 2003-13-17

Inspection of propellers returned to service by T and W Propellers, Inc. of Chino, CA.

N/A 2003-06-02

HC-C2Y(K, R)-1BF/F8477-4 propellers with TKS (Aircraft Deicing) Ltd. anti-ice boots that were installed by SOCATA-Groupe AEROSPATIALE, using TKS Ltd. Procedure P232. This AD requires removal of the anti-ice boots, inspection and rework of the anti-ice boot area of the propeller blades, and installation of new anti-ice boots.(ref. HC-ASB-61-251)

N/A 2003-03-20

HC-C2YR-4CF / FC8477A-4, installed on Sky International Inc. (Pitts) S-2S and S-2B airplanes with Textron Lycoming model AEIO-540-D4A5 engines. The hub and blades certified service (fatigue) life from unlimited hours to 2,000 hours.

N/A 2003-01-03

()HC-()2Y()-() propellers with certain serial numbers (SN's) of two-bladed aluminum propeller hubs part numbers (P/N's) D-6522-1, D-6522-2, D-6529-1, and D-6559-3. This action requires removal from service of those certain SN's of two-bladed aluminum propeller hubs and replacement with serviceable hubs.

N/A 2001-23-08

This AD applies to ()HC-()2Y()-() propeller models installed on Piper PA-32 series aircraft with Textron Lycoming 540 series engines that are rated at 300 HP or higher, or installed on Pilatus Britten Norman or Britten Norman BN-2 series aircraft with Textron Lycoming 540 series engines, or installed on any aircraft certificated in the acrobatic category, or installed on any aircraft that has ever been used for agricultural operations. This AD does not apply to propeller models with the suffix letter "B" at the end of the hub serial number. This AD requires initial and repetitive eddy current inspections of propeller hub for cracks, and replacement of hub if cracks are found. This AD requires replacement of certain serial-numbered hubs at next overhaul or at specified intervals. (ref HC-SB-61-227)

N/A 2001-07-03

Certain Hartzell Propeller Inc. Y-shank series propellers, identified by hub serial numbers, that were returned to service by Brothers Aero Services Company, Inc. (BASCO). This AD requires maintenance actions amounting to an overhaul of affected propellers.

N/A 94-17-13

Certain 3 blade "Y" shank hubs installed on 540 series engines, repetitive visual/eddy current inspection every 10 hours, others at 50 hours; alternative hub chamfer good for 400 hours; replace critical hubs by June 30, 1995. Lower risk models - AD says if chamfered, it can go 400 hrs, then repeat at 400 hr. intervals whereas SB 165 says it can go 400 hours, then repeat at 100 hr. intervals.

N/A 64-20-01

HC-C2YK-1/7666-2, HC-E2YL-2B/7663-4. Replacement of plastic pitch change blocks. Reinspect every 10 hours until compliance with SB 86.



SERVICE BULLETIN CHECK LIST

113B

HC - () (2, 3, 4) Y () - (1, 4)

Form # 113B - SB

Form Rev: 41

Form Rev Date: January 08, 2016

Page 1 of 2

Work Order: 44464

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N/A = Not Applicable

- N/A HC-SB-61-369 (B, D)HC-(C, G, I, L, M)2Y(F, K, L, R)-1() - Inspection of hub bushing p/n 103433 for incorrect location of retaining ring groove.
- N/A HC-ASB-61-341 rev 2 Hub replacement for HC-(C,E,I)(2,3)YR-(1,2) propellers installed on SMA engines.
- N/A HC-SB-61-356 rev 1 Blade-Secondary Windings on ()7690 () and () 7890 () Composite Blades, may not meet design specifications.
- N/A HC-SB-61-360 ()HC-()2Y(F,R)-(1,4)N / N7605 - Change in pre-load set screw p/n 101667-() to acheive proper thread engagement and proper pre-load.
- N/A HC-SB-61-329 7690C() to 7690E() Propeller Blade Conversion
- N/A HC-SB-61-323 HC-()2Y()-() -Eddy current inspection of 2-blade hubs installed on Socata TB-10 & TB-200 aircraft that use Lycoming ()-360 series engines.
- N/A HC-ASB-61-322 rev 1 Blade replacement requirement for blades with certain serial numbers.
- Ru HC-SB-61-319 N7605(B,K) snd N()7893 composite blades - blade modification requirements for certain serial numbers.
- N/A HC-SB-61-315 rev 2 Introduction of requirement for installation of engine-side hub bore bushing in Hawker Beechcraft Bonanza and Debonair applications.
- Ru HC-ASB-61-306 rev 2 N7605() composite blades - Inspect for cracks on blade surface.
- N/A HC-ASB-61-303 rev 1 Cessna 180 (A-H,J,K) Skywagon equipped with floats requires replacement of the PHC-(C,G)3YF-1RF/F7691() propeller with the PHC-(C,G)3YF-1RF/F8468A-6R propeller.
- N/A HC-SB-61-299 ()HC-(G,I)3Y(F,R)-1 / 7890K - Replacement and inspection of B7051-57 set screws.
- N/A HC-SB-61-296 rev 1 ()HC-()3Y()-() - Inspection for discontinuities on the internal web area of specific serial numbers.
- N/A HC-SB-61-288 BHC-L2YF-4(B,F)/(F)C8468AR installed on Beech A45, T-34A, and B45 - remove counterweight slugs and pitch change knob inspection.
- Ru HC-SB-61-284 rev 3 ()HC-(G,I,J)3Y(F,R)-1() - installed on Cirrus and Piper aircraft - replace spring and stop sleeve.
- Ru HC-SB-61-281 Inspect new hubs and hubs overhauled by Hartzell Service Center for improper anodize coverage.
- N/A HC-SB-61-269 rev 6 HC-()2Y(K,R)-() - Eddy current inspection each 100 hours or replace hub with 'B' suffix hub to eliminate inspection when installed on Lycoming () - 360 series engines. Optional terminating action to oil fill.
- N/A HC-SB-61-266 rev 2 HC-()3YR-(1, 2) () / ()7690J composite blades. Inspect blade and blade retention bearing.
- N/A HC-SB-61-264 HC-C2Y(K,R)-4() - Inspection of propellers for plastic shim installed in retention bearings.
- N/A HC-SB-61-263 rev 2 Shot peen Y shank pitch change knob on Fletcher FU-24,TB-30 Epsilon, and Hindustan HPT-32
- N/A HC-ASB-61-259 rev 1 Hub Replacement - Aluminum hub part numbers D-6522-1, D-6522-2, D-6529-1, D-6552-2, and D-6559-3 with certain serial numbers. (ref AD 2003-01-03)
- N/A HC-ASB-61-251 Inspection of Two-Bladed Propeller With Anti-Ice System Installed on Socata TB-20, TB-21 Aircraft (ref AD 2003-06-02).
- N/A HC-SB-61-246 rev 1 Recurring 50 hour inspection of composite blades installed on an undampened or modified Lycoming (AE)IO-360 engine.
- N/A HC-SB-61-238 rev 1 Three bladed, aluminum hub, "compact" series hub replacement
- N/A HC-SB-61-236 Blade angle adjustment for propeller HC-C3YR-1RF F7590 installed on Piper PA24-260 Commanche 260. under STC #SA288CH.
- N/A HC-SB-61-234 rev 1 New life limit for propellers on Aviat Pitts S-2S and S-2B aircraft.
- N/A HC-SB-61-227 rev 6 Eddy current inspection of 2 blade compact hubs ()HC-()2Y()-() series propellers. Optional terminating action to oil fill. Replaces service bulletin 194C (ref AD 91-12-23 and 2003-01-03)



SERVICE BULLETIN CHECK LIST

113B
HC - () (2, 3, 4) Y () - (1, 4)

Form # 113B - SB
Form Rev: 41
Form Rev Date: January 08, 2016
Page 2 of 2
Work Order: 44464

Technicians initials = Compliance or Confirmed Compliance

N/A = Not Applicable

- | | |
|--------------------------------|---|
| <u>N/A</u> HC-SB-61-218 | Recall certain Q-tip blades. |
| <u>N/A</u> HC-SB-61-165E rev 2 | 3 Blade compact hub inspection for hubs installed on 540 series engines (grease fitting area). |
| <u>N/A</u> HC-SB-61-136I | Additional blade overhaul and inspection procedures for single and double shoulder blade bores |
| <u>N/A</u> 118F rev 1 | Rework procedures for 'Y' shank aluminum blades bearing retention radius |
| <u>N/A</u> HC-SB-61-101D rev 2 | 8475 and 8477 blades are to be retired and replaced with 'F' knob blades |
| <u>N/A</u> 86 | Failure of A-2217 Pitch change block, HC-C2YK-1/7666-2 installed on Mooney and HC-E2YL-2B/7663-4 installed on Piper PA-30. (Ref. AD 64-20-01) |



SERVICE LETTER CHECK LIST

113B

HC - () (2, 3, 4) Y () - (1, 4)

Form # 113B - SL

Form Rev: 40

Form Rev Date: January 08, 2016

Page 1 of 1

Work Order: 44464

Technicians initials = Compliance or Confirmed Compliance

N/A = Not Applicable

- Ru HC-SL-61-353 Do not use Aeroshell Grease 22 as an alternate to Aeroshell Grease 5 in Hartzell Propellers
- Ru HC-SL-61-348 Hub Clamping Bolt Inspection
- N/A HC-SL-61-347 Hub clamping bolt P/N 102691 may be used in place of A-2433 hub clamping bolt.
- N/A HC-SL-61-342 -4 compact- new cylinder
- N/A HC-SL-61-340 ()HC-() 3Y () () - () - Improved pitch change fork
- N/A HC-SL-30-335 De-ice restrainer strap for specific models
- Ru HC-SL-61-332 New 104737 blade plug for use in N()7605() () () and N()7893() () composite blades
- N/A HC-SL-61-319 Mooney M20J with HC-C2YR-1BFP/F7497 and CAV Aerospace anti-ice system installed.
- Ru HC-SL-61-301 New C3317-340-8 blade o-ring supersedes C3317-340.
- N/A HC-SL-61-300 rev 1 PHC-J3YF-1N / F7605() - incorrect TC number stamped on specific serial number hubs.
- N/A HC-SL-61-293 rev 1 Optional blade seal for "Y" shank propellers
- N/A HC-SL-61-290 rev 1 Introduction of two bladed smooth forged hub
- Ru HC-SL-61-278 Description and use of low stop and lock nut.
- N/A HC-SL-61-273 rev 2 ()HC-() (2,3)Y()-() () () -Instructions for oil-filled modification when approved by a service bulletin.
- Ru HC-SL-61-282 rev 1 E - shank & composite blade with pre-load plate seal - pre-load plate wear limits
- N/A HC-SL-61-274 A2067 stud - change in manufacturing of the stud.
- Ru HC-SL-61-267 Use .010" teflon tape on blade shanks.
- Ru HC-SL-61-265 rev. 2 3 blade smooth forged hub - use of special tool to torque hub bolts and installation of TKS anti-ice system to smooth forged hubs.
- N/A HC-SL-61-255 Agricultural propellers - optional calendar extension up to 60 months TBO.requires inspection.
- Ru HC-SL-61-251 rev. 1 ()HC-(G,I,J)3Y(F,R)-1() - installed on Cirrus and Piper aircraft - replace spring and stop sleeve.
- Ru HC-SL-61-250 A1272 inner bearing ring may or may not have oil hole. Both are okay and may be intermixed.
- Ru HC-SL-61-244 Introduction of self locking nut part number B3599 which supersedes self locking nut part number B3359. B3359 can be used until stock is depleted.
- N/A HC-SL-61-243 ()HC-()2Y()-() with F7496-() or F8068(D) aluminum blades must use "B" suffix hub. Stamp "P" suffix on these propellers at overhaul.
- N/A HC-SL-61-242 HC-C2YR-1BF with F7496-() aluminum blades must use "B" suffix hub. Stamp "P" suffix on these propellers at overhaul.
- Ru HC-SL-61-217 Replacement of mounting hardware at propeller overhaul
- Ru HC-SL-61-177 Ball bearings, new part numbers, usage.
- Ru 69 Strengthened pitch change parts in compact propeller series HC-() (2,3)Y(F,L,K,N)-(1,2).
- Ru HC-SL-61-61Y rev 9 Overhaul periods and service life limits for propellers and governors.

HARTZELL

PROPELLER LOGBOOK

PROPELLER MODEL 1125cc
5100RPM
P1165331-11F -11/11 760513

PROPELLER S/N FP 5297B

LOGBOOK # 1

THIS SERVICE RECORD shall accompany the propeller equipment at all times. When equipment is installed as part of an Aircraft or engine, this record shall be maintained concurrently with and become a part of the Aircraft and Engine Service Records.

PROPELLER MAINTENANCE RECORD

Position ONE

PITCH RANGE

Propeller Model FP5297B-1A/N7605B

High/Feather _____

Propeller S/N FP5297B

Start Lock _____

Blade Design N7605B

Low _____

Blade S/N's

Reverse _____

No. 1 A0178

No. 2 A0180

Aircraft Manufacturer Cross Design

No. 3 A0192

Aircraft Model 3822

No. 4 _____

S/N 2293

No. 5 _____

Registration N420SE

No. 6 _____

Spinner Assembly Part No. _____

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 30693	
4. Organization Name and Address: Warner Propeller and Governor Co. L.L.C. 5102 S. Country Club Rd. Tucson, AZ 85706 FAA CRS W59R659N					5. Work Order/Contract/Invoice Number: 7983		
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	Propeller	PHC-J3YF-1N	N/A	1	FP5297B	Repair	
13. Remarks: RETURN TO SERVICE Repair using Hartzell manual 113B Revision 39 dated September/2010. Refer to work order listed in block 5 for details							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature: 		21. Approval/Certificate No.: W59R659N	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed): Brooke J. Warner		23. Date (m/d/y): Jun 14, 2011	
User/Installer Responsibilities							
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>							

WARNER PROPELLER & GOVERNOR CO.

5102 S. Country Club Rd., Tucson, Az. 85706 FAA CRS # W59R659N

WORK ORDER

7983

CUSTOMER INFORMATION

BILLING	SHIPPING
Name <u>Cutter Aviation</u>	Name <u>Cutter Aviation</u>
Address <u>2802 E. Old Tower Rd.</u>	Address <u>530 W. Deer Valley Road</u>
City/State/Zip <u>Phoenix, AZ 85034</u>	City/State/Zip <u>Phoenix, AZ 85027</u>
Contact person <u>Brad</u>	Phone <u>623-587-6826</u>
Date Recieved <u>6/1/11</u>	Date promised <u>6/14/11</u>

AIRCRAFT INFORMATION

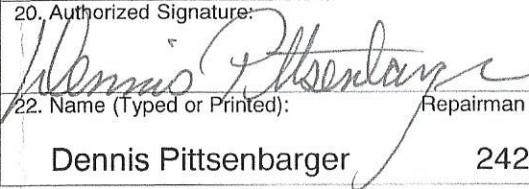
A/C model <u>Cirrus SR-22</u>	Engine M/N <u>IO-550-N</u>
A/C Serial <u>2293</u> N# <u>420SE</u>	Engine S/N <u>not reported</u>

COMPONENT INFORMATION

Item <u>Propeller</u>	Manufacturer <u>Hartzell</u>	Model # <u>PHC-J3YF-1N</u>
Serial # <u>FP5297B</u>	Part # <u>N/A</u>	TISN <u>1069.1</u> TISO <u>N/A</u>
Reason for repair <u>Blades have several debonds or imperfections in face and camber</u>		
Work to be performed <u>Repair as required.</u>		
The customer authorizes the above repairs to be made to the above components		
Customer signature _____		
REQUIRED DOCUMENTS		
<input type="checkbox"/> New logbook <input checked="" type="checkbox"/> Maintenance release <input type="checkbox"/> CofA <input type="checkbox"/> 337 <input type="checkbox"/> Origin <input type="checkbox"/> Other _____		

MAINTENANCE INFORMATION

Inspection results <u>Coin tap inspection results determine spots to be raised areas, possible debonds or areas of larger quantities of composite filler. Blades returned to Hartzell on request of Rolf Dickens evaluation and exchange. Possible warranty consideration</u>
Additional work required <u>Replace blades with overhauled set, install three new alcohol deicers</u>
Parts installed <u>1ea J3YF-1NRSK, 3ea C2131-9, 3ea N7605B,</u>
Work performed <u>Coin tap blades and convey results to Hartzell Product Support. Disassemble, clean, replace blades with Overhauled exchange set, install three new deicers, reassemble using new seals, gaskets, hardware. Functional test & static balance</u>
S/B, S/L, A/D compliances <u>None.</u>
Maintenance release issued <u>8130-3</u> Number <u>30693</u> Date issued <u>6/14/11</u>
Attachments to this work order <u>mm20, list, 8130-3 R031651, 8130-3</u>

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: MJ43320	
4. Organization Name and Address: Hartzell Service Center 5465 W. St. Rt. 185 Piqua, Ohio 45356					5. Work Order/Contract/Invoice Number: R023507		
6. Item:	7. Description:	8. Part Number:	9. Eligibility*:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	AIRCRAFT PROPELLER	PHC-J3YF-1N /N7605B	N/A	1	FP5297B	"REPAIRED"	
13. Remarks: Repaired face side of all three blades, and static balanced prop. Work was performed IAW Hartzell manuals 113B-R32, 135F-R11, 202A (Vol. 1-R31, Vol. 6-R29, Vol. 7-R30, Vol. 11-R29). Reference Form # 25 for serial numbers and times. Pertinent details of the repair are on file at this agency under Work Order R023507. ----- ----- END -----							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature N/A		16. Approval/Authorization No.: N/A		20. Authorized Signature: 		21. Approval/Certificate No.: SJ3R843L	
17. Name (Typed or Printed): N/A		18. Date (m/d/y): N/A		22. Name (Typed or Printed): Dennis Pittsenbarger		23. Date (m/d/y): Jul 3, 2007	
				Repairman Cert. No. 2424395			
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.							
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.							
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

HARTZELL SERVICE CENTER
COMPONENT SERIAL NUMBER AND TIME RECORD

FAA Form 8130-3 Tracking Number: R023507


Date: July 3, 2007

Model PHC-J3YF-1N / N7605B Item No. J3F20500AFM Customer: CORPORATE FLIGHT MANAGEMENT

Part	Serial Number	TSN	TSO	CSN	CSO	W/O#
Propeller Assembly	FP5297B	316.5	N/A			MJ43320
Hub	A84025B	316.5	N/A			R023507
Blade	A0178	316.5	N/A			R023507
Blade	A0180	316.5	N/A			R023507
Blade	A0192	316.5	N/A			R023507
Blade						
Blade						
Blade						
Clamp						
Clamp						
Clamp						
Clamp						
Clamp						
Clamp						
PC Bracket						
PC Bracket						
PC Bracket						
PC Bracket						
PC Bracket						
PC Bracket						
Beta Ring						
Slip Ring						
Bulkhead						
Fork						
Pitch Change Rod						
Cylinder						
Hydraulic Unit						
Cylinder Clamp						
Piston						


Rosen P/N: **R1740100**
Description: CIRRUS MOUNTING ASSEMBLY
Customer P/N: N/A
Model: CIRRUS SR22

FAA-PMA
(PQ2393NM)

Insp:  Date: **SEP 24 2008**

STC No: SA01285SE

SERIAL No: V023427



Cirrus Aircraft

HOSE ASS'Y
51277-001



1. Approving National Aviation Authority/Country: <p style="text-align: center; font-size: 1.2em;">FAA/UNITED STATES</p>	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: <p style="text-align: center; font-size: 1.2em;">MN08330</p>
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4. Organization Name and Address: Hartzell Service Center 5465 W. St. Rt. 185 Piqua, Ohio 45356	5. Work Order/Contract/Invoice Number: <p style="text-align: center; font-size: 1.2em;">R026958</p>
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6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	AIRCRAFT PROPELLER	PHC-J3YF-1N /N7605B	N/A	1	FP5297B	"REPAIRED"

13. Remarks:

Repaired and assembled propeller. Installed three new blades. Static balanced, lubricated and inspected prop assembly. All work was performed in accordance with Hartzell manuals 113B-R33, 135F-R14, 159-R8, 180-R3, 183, 202A (Vol. 1-R33, Vol. 2-R28, Vol. 3-R29, Vol. 6-R29, Vol. 7-R31, Vol. 8-R28, Vol. 9-R29, Vol. 10-R30, Vol. 11-R29) and Service Bulletin HC-SB-61-296-R1 and Service Letters HC-SL-61-61Y-R1, 154, HC-SL-61-229, HC-SL-61-241-R1, HC-SL-30-259-R10, HC-SL-30-260-R11, HC-SL-30-261 and Service Instruction 152A. Reference Form # 25 for serial numbers and times. Pertinent details of the repair are on file at this agency under Work Order R026958. Certifies that the work specified in Block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number: EASA.145.4516. ----- END -----

14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.	19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.
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15. Authorized Signature <p style="text-align: center; font-size: 1.2em;">N/A</p>	16. Approval/Authorization No.: <p style="text-align: center; font-size: 1.2em;">N/A</p>	20. Authorized Signature: 	21. Approval/Certificate No.: <p style="text-align: center; font-size: 1.2em;">SJ3R843L</p>
17. Name (Typed or Printed): <p style="text-align: center; font-size: 1.2em;">N/A</p>	18. Date (m/d/y): <p style="text-align: center; font-size: 1.2em;">N/A</p>	22. Name (Typed or Printed): <p style="text-align: center; font-size: 1.2em;">Mark Baker</p>	Repairman Cert. No. <p style="text-align: center; font-size: 1.2em;">2582389</p>
		23. Date (m/d/y): <p style="text-align: center; font-size: 1.2em;">Aug 22, 2008</p>	

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

HARTZELL SERVICE CENTER
COMPONENT SERIAL NUMBER AND TIME RECORD

FAA Form 8130-3 Tracking Number: R026958

Date: August 22, 2008

Model PHC-J3YF-1N/N7605B Item No. J3F20500AFM Customer: Corporate Flight

Part	Serial Number	TSN	TSO	CSN	CSO	W/O#
Propeller Assembly	FP5297B	749.6	N/A			R026958
Hub	A84025B	749.6	N/A			R026958
Blade	A2532	0.0	N/A			New
Blade	A2538	0.0	N/A			New
Blade	A2539	0.0	N/A			New
Blade						
Blade						
Blade						
Clamp						
Clamp						
Clamp						
Clamp						
Clamp						
Clamp						
PC Bracket						
PC Bracket						
PC Bracket						
PC Bracket						
PC Bracket						
PC Bracket						
Beta Ring						
Slip Ring						
Bulkhead	FJ-7022	749.6	N/A			R026958
Fork	NE8676	749.6	N/A			R026958
Pitch Change Rod						
Cylinder	E25024	749.6	N/A			R026958
Hydraulic Unit						
Cylinder Clamp						
Piston						

COMPACT PROPELLER

Overhaul

Repair

New

Experimental

Inspection

Prop S/N FP5297B Model PHC-J3YF-1N W.O. No. R026958

Serialized Parts

Builder		Inspector			
Hub Part No. <u>E-7156-4K</u>	Bulkhead S/N <u>FJ-7022</u>	Cwt. _____	Part No. _____	Serial No.	
Hub S/N. <u>A84025B</u>	Slip/Slinger Ring S/N _____	Blade <u>N7605B</u>	#1 <u>A2532</u>	#2 <u>A2538</u>	
Fork Ser. No. <u>NE 8676</u>	Cylinder S/N <u>E25024</u>		#3 <u>A2539</u>	#4 _____	
Piston Ser. No. <u>N/A</u>					

Builder

IDS# _____

Check for Leaks _____ Check Feather Angle (Record Angle) N/A

Assembled By: [Signature] Date: 8-22-08

Inspection

Blade Angles Checked at 30" Radius Low Pitch (Within .2 Deg.) 12.4 High Pitch 33.5

Friction Function Test "0"-175"psi Reverse Pitch N/A

Track/Length (Aluminum .125" max)(Composite .250" max.) T OK / L OK

Verified By: [Signature] Date: 8-22-08

Balance

Balance Weight Lead #1 _____ #2 _____ #3 15 1A #4 _____

Quantity and Type Trail #1 _____ #2 _____ #3 _____ #4 _____

Front (Assy. S/N) _____ Back _____

Balanced By: [Signature] Aeroshell G Lubricated By: [Signature]

Final Inspection

Mounting Hardware and Dimensional Checks

<p><u>"F" Flange Only</u></p> <p>(6) A-1381 Washers <input checked="" type="checkbox"/></p> <p>(6) A-2044 Lock Nuts <input checked="" type="checkbox"/></p> <p>(6) A-2429-3,4,5,7 Studs Torqued 25 ft.lbs. <input checked="" type="checkbox"/></p> <p>Mtg Stud Protrusion <input checked="" type="checkbox"/></p> <p>Dowel Pin Protrusion <input checked="" type="checkbox"/></p>	<p><u>"L" Flange Only</u></p> <p>(4) B-6489-25 Bolts _____</p> <p>(4) B-6526-7 Washers _____</p> <p>(2) A-2247-1 Stud _____</p> <p>(2) A-2498 Nut _____</p> <p>(2) A-2482 Washer _____</p>	<p><u>"N" Flange Only</u></p> <p>(8) A-3257 Nuts _____</p> <p>(8) A-2048-2 Washers _____</p> <p>(8) A-3254 Studs Torqued 35 ft. lbs. _____</p> <p>Mtg Stud Protrusion _____</p> <p>Dowel Pin Protrusion _____</p> <p>C-3317-230 O-Ring _____</p>
<p><u>"D" Flange Only</u></p> <p>(8) A-2044 Nuts _____</p> <p>(8) A-7752 Spacer _____</p> <p>(2) A-7750 & (6) A-7749 Studs, Torque 25 ft lb _____</p> <p>Mtg Stud Protrusion _____</p>	<p><u>"K,R" Flange Only</u></p> <p>(6) A-2067 Stud _____</p> <p>(6) A-1381 Washer _____</p> <p>(6) A-2069 Nut _____</p> <p>(6) B-3842-0750 Pin _____</p>	<p>Spinner Mounting Kit A-2476- <u>7</u></p> <p>De-ice System Check _____</p> <p>Ohms Reading <100K _____</p>

Air Chamber Charged _____ Safeties Torque Sheet

Inspected By: [Signature] Date: 8-22-08

HARTZELL SERVICE CENTER

WO# R026958 Router# R026958 Date August 22, 2008
 Item No. J3F20500AFM Model PHC-J3YF-1N/N7605B
 Customer Corporate Flight Warehouse: 4
 Ref: Propeller Assembly FP5297B

Assembly Instructions:
 Assemble customer property repaired propeller with new blades

Part	Serial Number	Work Order Number
Hub	A84025B	R026958
Blade	A2532	New
Blade	A2538	New
Blade	A2539	New
Blade		
Blade		
Blade		
Clamp		
Clamp		
Clamp		
Clamp		
Clamp		
Clamp		
PC Bracket		
PC Bracket		
PC Bracket		
PC Bracket		
PC Bracket		
PC Bracket		
Beta Ring		
Slip Ring		
Bulkhead	FJ-7022	R026958
Pitch Change Fork	NE8676	R026958
Pitch Change Rod		
Cylinder	E25024	R026958
Hydraulic Unit		
Cylinder Clamp		
Piston		