

HARTZELL

N189FG

PROPELLER OWNER'S MANUAL



HARTZELL

N189FG

PROPELLER LOGBOOK

PROPELLER MODEL PHC-J3Y1F-1N

PROPELLER S/N ~~NJ1362B~~ NJ1775B

LOGBOOK # 1

PROPELLER MAINTENANCE RECORD

Position One

PITCH RANGE

Propeller Model PHC-53YIF-1N

High/Feather _____

Propeller S/N ~~NJ1362B~~ NJ1775B

Start Lock _____

Blade Design N7605CB

Low _____

Blade S/N's

Reverse _____

No. 1 ~~B 3339~~ B9014

No. 2 B 3340 B8932

No. 3 B 3357 B9013

No. 4 _____

No. 5 _____

No. 6 _____

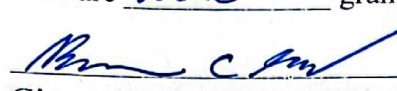
Aircraft Manufacturer Cirrus Design Corp



Aircraft Model SR22


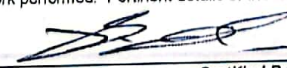
S/N 4378

Registration N189FG

Spinner Assembly Part No. _____

Date	Propeller		A/C Hrs	Description of all operations pertaining to Airworthiness Directives, Service Documents, Overhaul, Major or Minor Repair, and Inspections.
	TSN	TSO		
7-14-16	0.0	N/A	0.0	<p>I have Dynamically Balanced Propeller IAW Hartzell Propeller Owner's Manual 145 Rev. 15 dated March/15 Section: 61-00-45 on <u>JUL 14 2016</u> (DATE).</p> <p>The location of the Weight(s) are <u>None</u> degree</p> <p>And are <u>None</u> gram(s).</p> <p> (Sign/Stamp) Cirrus Design Corporation, PC 338CE</p>

	Model: SR22 S/N: 4378 Reg. No: N189FG	Date: 17-Aug-2017 TAT: 200.6 Hobbs: 233.4 Flight: 200.6
		
	Propeller	
	Inspections Accomplished: -Complied with a Propeller Annual Inspection. Ref AMM 05-30. Airworthiness Directives: -Researched ADs through 17-Aug-2017; none are due at this time.	
	I certify the propeller identified above was inspected in accordance with an annual type inspection, as required by FAR 91.409(f)(1), found to be airworthy, and is approved for return to service with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Package No JWN1198.	
	Signed:  For: Contour Aviation	
	Certified Repair Station No FJTR920D	Form CFM 007

	Model: SR22 S/N: 4378 Reg. No: N189FG	Date: 13 March 2018 Hobbs: 349.9 Flight: 299.1
		
	Prop S/N: NJ1362B	
	Maintenance Accomplished: -Complied with Cirrus 100 and 300 hour CMX inspection checklist Ref Cirrus CMX program checklist.	
	The propeller identified above was inspected and repaired in accordance with current Federal Aviation Regulations and is approved for return to service with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Package No JWN1214.	
	Signed:  For: Contour Aviation	
	Certified Repair Station No FJTR920D	Form CFM 007

Model: SR22
S/N: 4378
Reg. No: N189FG



Date: 01 June 2018
TT: 415.6
Hobbs: 482.8
PTT: 415.6

Prop S/N: NJ1362B

- Inspections Accomplished:
-Complied with Propeller Annual Inspection. Ref AMM 05-20.
Airworthiness Directives:
-Researched ADs through 01 June 2018; none are due at this time.

I certify the prop identified above was inspected in accordance with an annual type inspection, as required by FAR 91 409(f)(1), found to be airworthy, and is approved for return to service with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Package No JWN1626

Signed: 
For: **Contour Aviation** Certified Repair Station No FJTR920D Form CFM 007

Model: SR22
S/N: 4378
Reg. No: N189FG



Date: 16-Nov-2018
Hobbs: 630.8
Flight: 546.5

Prop S/N: NJ1362B

- Maintenance Accomplished:
-Complied with Cirrus 100 hour CMX inspection checklist Ref Cirrus CMX program checklist.

The propeller identified above was inspected and repaired in accordance with current Federal Aviation Regulations and is approved for return to service with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Package No CIR1025.


Signed: 
For: **Contour Aviation** Certified Repair Station No FJTR920D Form CFM 007

SO#	19-27534	SILVERHAWK AVIATION INC.				DATE	07/11/19
REG.	N189FG	Lincoln Municipal Airport [LNK]				TACH	688.5
MAKE	Cirrus	MODEL	SR22	SERIAL NO.	4378	ACTC	812.8

Maintenance Record

- Performed dynamic propeller balance. Able to obtain .02 ips of vibration by permanently mounting 19.25 grams of weight to spinner bulkhead at 80°. Reference ACES System to Propeller Balancing Document #1000-OM-01 Revision 2 dated July 1996.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 19-27534 Date: July 11, 2019.

Signed: Benjamin Taylor  for

Silverhawk Aviation, Inc. CRS# YQSR759U
Lincoln, NE 68524

Date	Propeller TSN TSO	A/C Hrs	Description of all operations pertaining to Airworthiness Directives, Service Documents, Overhaul, Major or Minor Repair, and Inspections.
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SO#	19-27479	SILVERHAWK AVIATION INC.				DATE	07/11/19
REG.	N189FG	Lincoln Municipal Airport [LNK]				TACH	688.5
MAKE	Hartzell	MODEL	PHC-J3Y1F-1N/N7605CB	SERIAL NO.	1032517	ACTT	688.5
		PTT	688.5	PTSOH	N/A	HOBBS	812.8

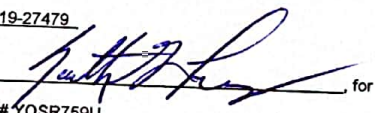
Maintenance Record

1. Complied with Annual Inspection. Post inspection ran aircraft for leak checks with no leaks noted. Reference Cirrus SR22 Airplane Maintenance Manual, Chapter 5-20 and 5-30.
2. Complied with 100 hour/12 month propeller lubrication schedule reference Cirrus SR22 Maintenance Manual Chapter 12-20. Next due 100 hours 788.5 ACTT or 12 calendar months.

I certify this (aircraft) (engine) (propeller) has been inspected in accordance with an Annual inspection as per 14 CFR 91.409 (a)(1) and was determined to be in an airworthy condition.

Dated: July 11, 2019 W.O. 19-27479

Signed: Scotty G. Long



Silverhawk Aviation Inc. CRS # YQSR759U
Lincoln, NE 68524

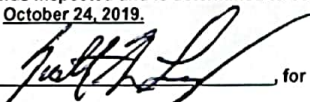
SO#	19-28183	SILVERHAWK AVIATION INC.				DATE	10/24/2019
REG.	N189FG	Lincoln Municipal Airport [LNK]				HOBBS	950.0
MAKE	CIRRUS	MODEL	SR22	SERIAL NO.	4378	ACTT	799.6

Maintenance Record Airframe/Engine/Propeller

1. Removed propeller Hartzell model P/N. PHC-J3Y1F-1N, S/N. NJ1362B. Installed "Overhauled" and tested propeller Hartzell model PHC-J3Y1F-1N, S/N. NJ1775B see FAA form 8130-3 FTN 20481 Palm Beach Aircraft Propeller dated 22/OCT/2019 for details. Performed engine crankshaft run-out and flange dye-penetrant inspection with no discrepancies noted at this time. Performed engine/propeller ground run performance and leak check with no discrepancies noted at this time. Reference the Cirrus SR22 AMM 05-00, 24-00, 61-00, 72-00 and the TCM IO-550 Series Maintenance and Overhaul Manual Section 15-7, Appendix D and TCM Service Bulletin No. 96-11B.
2. Inspected aircraft as required and determined that it is in safe condition for intended one-time ferry flight from KCBF direct KLNK in accordance with Special Flight Permit issued by the Lincoln, Nebraska FAA FSDO on 10/24/2019. All applicable Airworthiness Directives have been complied with. See Silverhawk Aviation, Inc. Shop Order No. 19-28183 for complete details. --- END ---

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 19-28183 Date: October 24, 2019.

Signed: Scotty G. Long



Silverhawk Aviation, Inc. CRS# YQSR759U
Lincoln, NE 68524

Palm Beach Aircraft Propeller, Inc.
2633 Lantana Rd, Ste. 23 Building 1501
Lantana, Florida 33462
FAA Certified Repair Station No. LU4R349M

Date: 1/14/2019

Propeller Model: PHC-J3Y1F-1N

Serial # NJ1775B

Propeller Total Time: 151.2

Time Since Overhaul: 0

This propeller was Overhaul and functionally tested in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency under work order 20481

Michael F. O'Neill


Authorized Signature

Form # PR 28 LB

Rev. 0. 2-1-2018

User/Installer - Responsibilities

I/We, the undersigned, perform the work in accordance with the national regulations of an airworthiness authority different than the authority of the country specified in Block 1. It is essential that the user/installer assures that his/her airworthiness authority records reflect the work performed from the airworthiness authority of the country specified in blocks 1a and 14a. The user/installer is responsible for the accuracy of the information provided in this form.

1. RELEASE CERTIFICATE		3. FORM TRACKING NUMBER	
0-3. AIRWORTHINESS APPROVAL TAG		20481	
Palm Beach Aircraft Propeller 2633 Lantana Rd, Building 1501 Lantana, Florida 33462		5. WORK ORDER, CONTRACT OR INVOICE NUMBER 20481	
9. QTY	10. SERIAL/BATCH NUMBER	11. STATUS/WORK	
1	NJ1775B	OVERHAULED	
151.2	I/AAW Mfg. Spec. Manual #	113B REV. 45	
151.2		133C REV. 37	
0		135F REV. 30	
		159 REV. 65	
		202A VOL. 1 REV. 57	
		202A VOL. 10 REV. 35	
		202A VOL. 11 REV. 36	
		202A VOL. 2 REV. 30	
		202A VOL. 3 REV. 38	
		202A VOL. 6 REV. 35	
		202A VOL. 7 REV. 47	
		202A VOL. 8 REV. 33	
<input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service Certifies that the work specified in Block 12 (or attachment) the work identified in Block 11 and described in Block 12 was accomplished with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
14b. AUTHORIZED SIGNATURE		14c. APPROVAL/CERTIFICATION NO.	
 Michael F. O'Neill		FAA CRS # LU4R349M EASA 145.5271	
14d. NAME (TYPED OR PRINTED)		14e. DATE (dd/mm/yyyy)	
Michael F. O'Neill		22/Oct/2019	

SO#	19-28183	SILVERHAWK AVIATION INC.				DATE	10/28/2019
REG.	N189FG	Lincoln Municipal Airport [LNK]				HOBBS	950.9
MAKE	CIRRUS	MODEL	SR22	SERIAL NO.	4378	ACTT	800.0

Maintenance Record Propeller

1. Removed propeller Hartzell model P/N. PHC-J3Y1F-1N, S/N. NJ1775B to facilitate engine repairs and installation of propeller deice features. PTT: 151.6, PTSOH: 0.4 hours.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 19-28183 Date: October 28, 2019.

Signed: Scotty G. Long , for

Silverhawk Aviation, Inc. CRS# YQSR759U
Lincoln, NE 68524

N: 189FG Make: Cirrus Model: SR22 Serial: 4378
 Propeller M/N: PHC-J3Y1F-1N Prop S/N: NJ1775B
 Blade M/N: N7605CB
 Blade S/N's: 1) B9014 2) B8932 3) B9013
 Prop TSN: 151.2
 AC Hobbs: 797.6 Prop TSO: 000.00

Repaired per Hartzell manuals 113B rev 46, 135F rev 33, 159 rev 68, 180 rev 29, 202A v7 rev 48 and v11 rev 36. Assembled overhauled propeller. Installed Anti Ice Boot P/N C2131-9. Serviced with Aeroshell 6 grease and static balanced.

The above described maintenance was performed in accordance with current Federal Aviation Regulations and is approved for return to service.

Details to be found in International Propeller Service LLC.


Work Order # IPS1499

Dated: November 6, 2019

Signed 

Scott Lau

For International Propeller Service CRS 9IPR665C
 4630 Hartley #3 Lincoln Nebraska 68504
 Phone: 402-858-6346 Fax: 402-817-4360

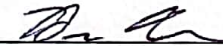
1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 3073	
4. Organization Name and Address: International Propeller Service 4630 Hartley Street #3 Lincoln, NE 68504 USA Ph: 402-858-6346, Fax: 402-817-4360 FAA Approval Holder: 9IPR665C				5. Work Order/Contract/Invoice Number: IPS1499		
6. Item	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	Propeller	PHC-J3Y1F-1N	1	NJ1775B	REPAIRED	
12. Remarks: Repaired per Hartzell manuals 113B rev 46, 135F rev 33, 159 rev 68, 180 rev 29, 202A v7 rev 48 and v11 rev 36. Assembled propeller overhauled by Palm Beach Propeller on their work order 20481. Installed 3 each Anti Ice Boot P/N C2131-9. Serviced with Aeroshell 6 grease and static balanced.						
13a. 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 12				14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 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.		
13b. Authorized Signature:		13c. Approval Authorization No.:		14b. Authorized Signature:		14c. Approval/Certificate No.:
						9IPR665C
13d. Name (Typed or Printed):		13e. Date (dd/mmm/yyyy):		14d. Name (Typed or Printed):		14e. Date (dd/mmm/yyyy):
				Scott Lau		06-Nov-2019
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. 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 aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statement in Blocks 13a and 14a 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.						

Date	Propeller		A/C Hrs	Description of all operations pertaining to Airworthiness Directives, Service Documents, Overhaul, Major or Minor Repair, and Inspections.				
	TSN	TSO						
	SO#	19-28183	SILVERHAWK AVIATION INC.			DATE	12/12/19	
	REG.	N189FG	Lincoln Municipal Airport [LNK]			HOBBS	950.9	
	MAKE	Hartzell	MODEL	PHC-J3Y1F-1N	SERIAL NO.	NJ1775B	ACTT	800.0

Maintenance Record Propeller

- Removed propeller Hartzell Model PHC-J3Y1F-1N S/N NS1362B. Installed overhauled and tested propeller Hartzell Model PHC-J3Y1F-1N S/N NJ1775B. See FAA Form 8130-3 FTN 20481 Palm Beach Aircraft Propeller dated 10/22/2019 for details. Performed engine crankshaft run-out and flange dye penetrant inspection with no discrepancies noted at this time. Performed engine ground run performance and leak check with no discrepancies noted at this time. Reference the Cirrus SR22 Aircraft Maintenance Manual Chapters 05-00, 24-00, 61-00, 72-00 and the TCM IO-550 Series Maintenance and Overhaul Manual Section 15-7, Appendix D and TCM Service Bulletin No. 96-11B. Inspected aircraft as required and determined that it is in safe condition for intended one time ferry flight from KCBF direct KLNK in accordance with special flight permit issued by the Lincoln, Nebraska FAA FSDO on 10/24/2019. All applicable airworthiness directives have been complied with. See Silverhawk Aviation Inc Shop Order No. 19-28183 for complete details.
- Removed and reinstalled prop model PHC-J3Y1F-1N S/N NJ1775B from IO-550-N S/N 1032517 for propeller strike inspection referencing Cirrus SR22 Aircraft Maintenance Manual Chapter 61-10

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 19-28183 Date: December 12, 2019.

Signed: Benjamin A. Taylor , for
Silverhawk Aviation, Inc. CRS# YQSR759U
Lincoln, NE 68524


	SO#	20-29457	SILVERHAWK AVIATION INC.			DATE	07/07/2020	
	REG.	N189FG	Lincoln Municipal Airport [LNK]			TACH	900.5	
	MAKE	Hartzell	MODEL	PHC-J3Y1F-1N/N7605CB	SERIAL NO.	NJ1775B	ACTT	900.5
			PTT	100.9	PTSOH	N/A	HOBBS	1081.5

Maintenance Record Propeller

- Complied with Annual Inspection referencing Cirrus SR22 AMM Chapter 05-20 and 05-30.
- Completed 100-hour prop lube referencing Cirrus SR22 AMM Chapter 12-20. Next due in 100 hours at 1000.5 ACTT or 12 calendar months, whichever occurs first.
- Performed aircraft propeller balancing. Was able to obtain .09 ips of vibration with installation of 15 grams of weight at 337 degree and 30 grams of weight at 22 degrees on spinner bulkhead. Reference ACES guide to propeller balancing Document #1000-0m-01 Revision 2.0 dated June 1996.

I certify this (aircraft) (engine) (propeller) has been inspected in accordance with an Annual inspection as per 14 CFR 91.409 (a)(1) and was determined to be in an airworthy condition.

Dated: July 07, 2020 W.O. 20-29457

Signed: Eugene Luce , for
Silverhawk Aviation Inc. CRS # YQSR759U
Lincoln, NE 68524

D

I Propeller | A/C |

Description of all operations pertaining to Airworthiness Directives.

SO#	21-31634	Silverhawk Aviation				DATE	08/12/2021
REG.	N189FG	Lincoln Municipal Airport [LNK]				ACTT	987.8
MAKE	Hartzell	MODEL	PHC-JEY1F-1N	PTT:	188.2	TACH	987.8
		SERIAL NO.	NJ1775B	PTSOH:	N/A	HOUR	1192.4

Maintenance Propeller Record

1. Complied with Annual Inspection compression check MO=46 Cyl# 1 66/80, Cyl# 2 60/80, Cyl# 3 63/80, Cyl# 4 66/80, Cyl# 5 56/80 and Cyl# 6 60/80. Ran engine and drain oil and removed oil filter, cut oil filter open, and inspected with no discrepancies found at this time. Replaced oil filter with new P/N CH48108-1 and 7qts of X/C 20w-50 oil. Removed spark plugs and clean, inspected and serviced and reinstalled. Ran engine for leak checks none noted at this time. Reference Cirrus SR22 AMM Chapter 05-20 and 05-30 and Continental standard practice maintenance manual chapter 6-4.8.2, 6-4.11.2, 6-4.9.2.
2. Complied with 100 hour propeller lubrication. Reference Cirrus SR22 maintenance manual 12-20.

I certify this (aircraft) (engine) (**propeller**) has been inspected in accordance with a/an Annual inspection as per 14 CFR part 91.409 (a) (1) and was determined to be in an airworthy condition.

Dated August 12, 2021 W.O. 21-31634 Signed Benjamin Taylor

Silverhawk Aviation CRS # YQSR759U
Lincoln, NE 68524