

HARTZELL

**PROPELLER
OWNER'S MANUAL**



HARTZELL PROPELLER OWNER'S MANUAL

HARTZELL PROPELLER INC

Item Number: J3F30500

Date: 5/19/2014

INSPECTION

Work Order #: M062490

| | | | | | | | | | | |
|--|------------------|---------------------|--------------------|--------------------|---------------|----------|-----------------|----------|------|--------------------|
| Model Number PHC-J3Y1F-1N/N7605B | | | | | | | | | | |
| Ass'y Ser No. NJ933B | | Hydr Unit No. NA | | Bulkhead No. NA | | | Valve No. NA | | | |
| Blade 1:A8609 | | Blade 2:A8648 | | Blade 3:A8643 | | Blade 4: | | Blade 5: | | Blade 6: |
| Clamp 1: | | Clamp 2: | | Clamp 3: | | Clamp 4: | | Clamp 5: | | |
| Reverse NA | Start Lock NA | Low Pitch 12.2 | High Pitch 35.0 | Feather NA | Position | Orient. | Qty:Al | St | Scrw | A-2424-1 Washer |
| | | | | | 3 | L | 0 | 0 | 2 | 0 0 |
| Ref Radius (inches) for angles: 30 | | | | | 3 | T | 0 | 0 | 2 | 0 0 |
| Comments: Deice Kit: NA | | | | | | | | | | |
| Packing Certified By: <i>John Martin</i> | | | | | Date: 5-19-14 | | | | | |
| Inspected By: John Martin | | | | | | | | | | |

The approved design data for this propeller incorporates all changes required by applicable Airworthiness Directives.
The propeller covered by this certificate has passed a functional test as required by 14 CFR Part 21.137(e)(2).

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| Reverse | Start Lock | Low Pitch | High Pitch | Feather | Position | Orient. | Qty:Al | St | Scrw | A-2424-1 | Washer |
| NA | NA | 12.2 | 35.0 | NA | 3 | L | 0 | 0 | 2 | 0 | 0 |
| Ref Radius (inches) for angles: 30 | | | | | 3 | T | 0 | 0 | 2 | 0 | 0 |
| Comments: Deice Kit: NA | | | | | | | | | | | |
| Packing Certified By: | | | | Date: | | | | | | | |
| Inspected By: John Martin | | | | | | | | | | | |

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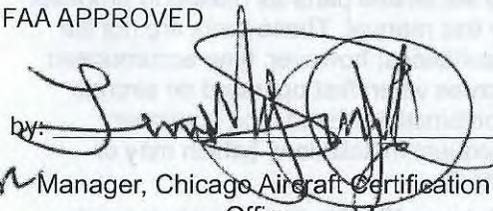
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The propeller covered by this certificate has passed a functional test as required by 14 CFR Part 21.137(e)(2).

AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations section is FAA approved and specifies maintenance required under 14 CFR §§ 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

FAA APPROVED

by:  date: 5/10/2013
for Manager, Chicago Aircraft Certification Office, ACE-115C
Federal Aviation Administration

| Rev. No. | Description of Revision |
|----------|---|
| 7 | Adds airworthiness limitation information from Hartzell Overhaul Manual 113B (61-10-13) and Hartzell Overhaul Manual 117D (61-10-17), removes the wording that indicates the inspection of the composite blade assembly, ()7690J can be accomplished on-wing |
| 12 | Revises propeller inspection interval on SMA diesel installations from 500 flight hours to optional 650 flight hours with additional inspections |
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RECORD OF REVISIONS

Rev. No. Issue Date Date Inserted Inserted By

| Rev. No. | Issue Date | Date Inserted | Inserted By |
|----------|------------|---------------|-------------|
| Orig. | Mar/99 | Mar/99 | HPI |
| Rev. 1 | Mar/04 | Mar/04 | HPI |
| Rev. 2 | Jun/06 | Jun/06 | HPI |
| Rev. 3 | Jul/06 | Jul/06 | HPI |
| Rev. 4 | Dec/06 | Dec/06 | HPI |
| Rev. 5 | Oct/08 | Oct/08 | HPI |
| Rev. 6 | Nov/08 | Nov/08 | HPI |
| Rev. 7 | Oct/09 | Oct/09 | HPI |
| Rev. 8 | Jul/10 | Jul/10 | HPI |
| Rev. 9 | Jun/11 | Jun/11 | HPI |
| Rev. 10 | Oct/11 | Oct/11 | HPI |
| Rev. 11 | Dec/12 | Dec/12 | HPI |
| Rev. 12 | May/13 | May/13 | HPI |
| Rev. 13 | Oct/13 | Oct/13 | HPI |
| Rev. 14 | MAR/14 | July/14 | CDC |
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AIRWORTHINESS LIMITATIONS

| Aircraft/Engine/Propeller | Blade Life Limit |
|---|------------------|
| Aircraft: Mooney PFM Engine: Porsche Propeller: BHC-J2YF-1C/B7421 | 3,000 hours |
| Aircraft: Aviat Pitts S-2B Engine: Lycoming AEIO-540-D4A5 Propeller: HC-C3YR-1A/7690C | 12,500 hours |

FAA APPROVED

by: Original Signed By:
Timothy Smyth date: **MAY 20 2013**

Manager, Chicago Aircraft Certification
Office,
ACE-115C
Federal Aviation Administration

AIRWORTHINESS LIMITATIONS1. Replacement Time (Life Limits)

- A. The FAA establishes specific life limits for certain component parts, as well as the entire propeller. Such limits require replacement of the identified parts after a specified number of hours of use.
- B. The following data summarizes all current information concerning Hartzell life limited parts as related to propeller models affected by this manual. These parts are not life limited on other installations; however, time accumulated toward life limit accrues when first operated on aircraft/engine/propeller combinations listed, and continues regardless of subsequent installations (which may or may not be life limited).
- (1) The following list specifies life limits for blades only. Associated hub parts are not affected. Blade models shown are life limited only on the specified applications.

FAA APPROVED

by: Original Signed By:
Timothy Smyth date: **MAY 20 2013**

Manager, Chicago Aircraft Certification
Office,
ACE-115C
Federal Aviation Administration

AIRWORTHINESS LIMITATIONS

2. Periodic Inspections

- A. Inspect the composite blade assembly, ()7690J installed on aircraft with the SMA SR305 engine, at intervals not greater than 500 flight hours, in accordance with Hartzell Service Bulletin HC-SB-61-266, Rev. 1 or at intervals not greater than 650 flight hours when maintained in accordance with Hartzell Service Bulletin HC-SB-61-266, Rev. 2.
- B. Disassemble and inspect Hartzell propeller models HC-()3YR-1()/()7690J installed on aircraft with the SMA SR305 engine at an interval not greater than 500 flight hours, in accordance with Hartzell Service Bulletin HC-SB-61-266, Rev. 1 or at intervals not greater than 650 flight hours when maintained in accordance with Hartzell Service Bulletin HC-SB-61-266, Rev. 2.
- C. Disassemble and inspect Hartzell propeller models HC-()3YR-2()/()7690J installed on aircraft with the SMA SR305 engine at an interval not greater than 500 flight hours, in accordance with Hartzell Service Bulletin HC-SB-61-266, Rev. 1 or at intervals not greater than 650 flight hours when maintained in accordance with Hartzell Service Bulletin HC-SB-61-266, Rev. 2.

FAA APPROVED

by: Original Signed By:
Timothy Smyth date: MAY 20 2013Manager, Chicago Aircraft Certification
Office,
ACE-115C
Federal Aviation Administration

HARTZELL

PROPELLER LOGBOOK

PROPELLER MODEL PHC-J3Y1F-1N

PROPELLER S/N NJ933B

LOGBOOK # _____

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 PHC-J3Y1F-1N

High/Feather _____

Propeller S/N NJ933B

Start Lock _____

Blade Design N7605B

Low _____

Blade S/N's

Reverse _____

No. 1 A8609

No. 2 A8648

Aircraft Manufacturer CIRRUS Design Corp

No. 3 A8643

Aircraft Model SR22T

No. 4 _____

S/N 0817

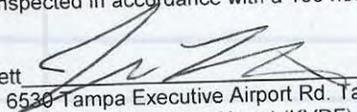
No. 5 _____

Registration N217SK

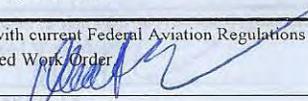
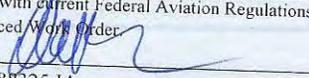
No. 6 _____

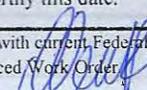
Spinner Assembly Part No. _____

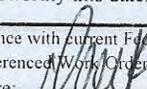
| Date | Propeller | | A/C Hrs | Description of all operations pertaining to Airworthiness Directives, Service Documents, Overhaul, Major or Minor Repair, and Inspections. |
|---------|-----------|-----|------------|---|
| | TSN | TSO | | |
| 6-19-14 | 0.0 | N/A | 0.0 | <p>I have Dynamically Balanced Propeller IAW Hartzell Propeller Owner's Manual 145 Rev. 14 dated March/14 Section: 61-00-45 on <u>6-19-14</u> (DATE). The location of the Weight(s) are <u>NONE</u> degree And are <u>NONE</u> gram(s).</p> <p><i>Jared Rossat</i>  (Sign/Stamp) Cirrus Design Corporation, PC 338CE</p> |
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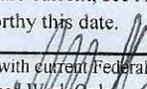
| | | | |
|--|--|---|--|
|   | | | |
| <p>Date: 8/26/2015; Aircraft: N217SK; Type: CIRRUS; S/N: 0817; Hobbs: 115.0; Total Time: 100.4; Prop - Type: PHC-J3Y1F-1N, S/N: NJ933B, Time: 74.4, SMOH: 74.4</p> | | | |
| <ul style="list-style-type: none"> -Complied with Cirrus 100 hour inspection checklist. -Inspected Propeller for cracks, leaks, and abrasions. -Lubricated hub. -Verified AD compliance through Bi-weekly issue 2015-15. | | | |
| <p>I certify this propeller has been inspected in accordance with a 100 hour inspection with reference to Cirrus AMM and is found to be in airworthy condition at this time.</p> | | | |
| <p>Jonathan Bennett  A&P 3026634 IA</p> | | <p>6530 Tampa Executive Airport Rd. Tampa, FL 33610 Tampa Executive Airport (KVDF) 813-621-7476</p> | |
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| Date | Propeller TSN TSO | A/C Hrs | Description of all operations pertaining to Airworthiness Directives, Service Documents, Overhaul, Major or Minor Repair, and Inspections. |
|------|----------------------|------------|--|
| | | |  <p>Leading Edge Aviation Maintenance LLC. Lakeland Linder Regional Airport (KLAL) 3760 Airfield Drive West WWW.LEADINGEDGEAVIATION.COM Lakeland FL 33811 813-621-7476</p> <p>Date: 8/18/2016; Aircraft: N217SK; Type: CIRRUS; S/N: 0817; Hobbs: 194.2; Total Time: 169.5; Engine - Type: TSIO-550-K, S/N: 1010419, Time: 169.5; Prop - Type: PHC-J3Y1F-1N, S/N: NJ933B, Time: 143.5</p> <p>-Complied with Girus Annual inspection checklist. -Inspected prop for cracks,leaks,abrasions-lubed hub. -Verified AD compliance through Bi-weekly issue 2016-17</p> <p>The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service pertaining to work performed.</p> <p>Jonathan Coradin  A&P 3502686IA</p> |
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| <p>Model: Cirrus SR22T S/N: 0817 Reg# N217SK MOD: PHC-J3Y1F-1N Assy S/N: NJ933B</p> | <p>Advantage Aviation LLC South Valley Regional Airport 7220 S. 4450 W. W. Jordan, UT 84084 801-755-5398</p> | <p>W/O: Flight Hr: 383.8 TSPOH: 357.8</p> |
| <p>C/W 100 HR/Annual inspection IAW Cirrus SR22T AMM & Single Engine Inspection Guide. All AD are current, see AD list. I certify that this propeller has been inspected in accordance with a 100 HR/Annual inspection and determined airworthy this date.</p> | | |
| <p>The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair(s) are on file at this Facility under the above referenced Work Order.</p> | | |
| <p>Date: November 8, 2019</p> | | <p>Signature:  Huy Bui 3688325 IA</p> |
| <p>Model: Cirrus SR22T S/N: 0817 Reg# N217SK MOD: PHC-J3Y1F-1N Assy S/N: NJ933B</p> | <p>Advantage Aviation LLC South Valley Regional Airport 7220 S. 4450 W. W. Jordan, UT 84084 801-755-5398</p> | <p>W/O: Flight Hr: 463.3 TSPOH: 437.3</p> |
| <p>C/W 100 HR/Annual inspection IAW Cirrus SR22T AMM & Single Engine Inspection Guide. All AD are current, see AD list. I certify that this propeller has been inspected in accordance with a 100 HR/Annual inspection and determined airworthy this date.</p> | | |
| <p>The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair(s) are on file at this Facility under the above referenced Work Order.</p> | | |
| <p>Date: January 29, 2021</p> | | <p>Signature:  Huy Bui 3688325 IA</p> |

| | | | |
|---|---|---|--|
| Date | Model: Cirrus SR22T S/N: 0817 Reg# N217SK MOD: PHC-J3Y1F-1N Assy S/N: NJ933B | Advantage Aviation LLC South Valley Regional Airport 7220 S. 4450 W. W. Jordan, UT 84084 801-755-5398 | W/O: Flight Hr: 559.8 TSPOH: 559.8 |
| | C/W 100 HR/Annual inspection IAW Cirrus SR22T AMM & Single Engine Inspection Guide. All AD are current, see AD list. I certify that this propeller has been inspected in accordance with a 100 HR/Annual inspection and determined airworthy this date. | | |
| The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair(s) are on file at this Facility under the above referenced Work Order. | | | Signature:  |
| Date: April 5, 2022 | | Huy Bui 3688325 IA | |

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|---|---|--|
| Model: Cirrus SR22T S/N: 0817 Reg# N217SK MOD: PHC-J3Y1F-1N Assy S/N: NJ933B | Advantage Aviation LLC South Valley Regional Airport 7220 S. 4450 W. W. Jordan, UT 84084 801-755-5398 | Flight Hr: 610.3 TTP: 610.3 |
| C/W 100 HR/Annual inspection IAW Cirrus SR22T AMM & Single Engine Inspection Guide. All AD are current, see AD list. I certify that this propeller has been inspected in accordance with a 100 HR/Annual inspection and determined airworthy this date. | | |
| The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair(s) are on file at this Facility under the above referenced Work Order. | | |
| Date: March 1, 2024 | | Signature:  Huy Bui 3688325 IA |

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|---|---|--|
| Model: Cirrus SR22T S/N: 0817 Reg# N217SK MOD: PHC-J3Y1F-1N Assy S/N: NJ933B | Advantage Aviation LLC South Valley Regional Airport 7220 S. 4450 W. W. Jordan, UT 84084 801-755-5398 | Flight Hr: 656.4 TTP: 656.4 |
| C/W 100 HR/Annual inspection IAW Cirrus SR22T AMM & Single Engine Inspection Guide. All AD are current, see AD list. I certify that this propeller has been inspected in accordance with a 100 HR/Annual inspection and determined airworthy this date. | | |
| The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair(s) are on file at this Facility under the above referenced Work Order. | | |
| Date: May 20, 2025 | | Signature:  Huy Bui 3688325 IA |