

**HARTZELL**

**PROPELLER  
OWNER'S MANUAL**



**HARTZELL**

# PROPELLER LOGBOOK

PROPELLER MODEL HC-D4N-3C/D9510&K


PROPELLER S/N FY4515

LH

LOGBOOK # 1

Description of all operations pertaining to Airworthiness Directives, Service Documents, Overhaul, Major or Minor Repair, and Inspections.

Date	Propeller		A/C Hrs
	TSN	TSO	
	WO# 461590 Reg# N85FD Hobbs: 847.3 PTT: 0.0	Date: 2/15/2017 Prop SN: FY4515 PTSOH: 0.0	




**Left Propeller Log Entry**

Elliott Aviation of Minneapolis, Inc.  
Flying Cloud Airport  
13801 Pioneer Trail  
Eden Prairie, MN 55347-2617

**Modification & Refurbishment**


- \* Removed left prop p/n HC-E4N-3N/D8990SK, s/n HH4318. Installed Raisbeck Engineering STC #SA3593NM swept blade turboprop propeller. New prop p/n HC-D4N-3C/D9510SK, s/n FY4515 installed in left position. Prop was installed and rigged referencing Raisbeck document No. C90GT-1M. Ground run and leak check good. Serviced oil. See FAA form 337 dated 2/15/17 from Elliott Aviation of Minneapolis, Inc.

*I certify this Propeller is in an airworthy condition with respect to the maintenance and/or inspection performed and is approved for return to service. All maintenance and/or inspections were completed in accordance with the applicable manufacturer's maintenance manuals. Pertinent details are on file at this agency under WO# 461590.*

Signed  for Elliott Aviation of Minneapolis, Inc.  
Jeff Solberg CRS# KX5R005N

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	WO# 461739 Reg# N85FD Hobbs: 884.8 PTT: 37.5	Date: 5/19/2017 Prop SN: FY4515 PTSOH: 37.5	
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**Left Propeller Log Entry**

Elliott Aviation of Minneapolis, Inc.  
Flying Cloud Airport  
13801 Pioneer Trail  
Eden Prairie, MN 55347-2617

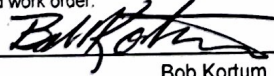
**Inspection**

- \* Completed a Phase 3 and 4 Inspection using the Beechcraft Corp. King Air 90 Series Maintenance Manual Phase 3 and 4 Checklist LJ 1063 and after.

**Instructions for Continued Airworthiness**

- \* Complied with Raisbeck swept back propeller periodic inspection. No defects noted at this time. Reference Raisbeck engineering document no. 85-120 maintenance manual for King Airs installed with Raisbeck Systems section 9-18.

*I certify this Propeller has been inspected in accordance with a Phase 3 and 4 inspection per 14 CFR 91.409 (f)(3) and is determined to be in airworthy condition. All maintenance was performed referencing the applicable manufacturer's maintenance manuals. Pertinent details are on file under the referenced work order.*

Signed  for Elliott Aviation of Minneapolis, Inc.  
Bob Kortum CRS# KX5R005N

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INTRODUCTION DESCRIPTION AND OPERATION INSTALLATION AND REMOVAL TESTING AND REFRESHING

WO# 462636      Date: 6/18/2018  
 Reg# N85FD      Prop SN: FY4515  
 Hobbs: 987.4



Elliott Aviation of Minneapolis, Inc.  
 Flying Cloud Airport  
 13801 Pioneer Trail  
 Eden Prairie, MN 55347-2617

**Left Propeller Log Entry**

**Inspection**

- \* Performed Phase 1 and 2 inspections using the Beechcraft King Air 90 series Maintenance Manual Scheduled Inspection Program 05-25-01, and 05-25-02.  
**Instructions for Continued Airworthiness**
- \* Performed Raisbeck swept back propeller ICA.  
**Maintenance Action**
- \* Installed new carbon block p/n A-3026.

I certify this Propeller This aircraft has been inspected in accordance with a Phase 1 and Phase 2 inspection per 14 CFR 91.409 (f)(3) and is determined to be in airworthy condition. All maintenance was performed referencing the applicable manufacturer's maintenance manuals. Pertinent details are on file under the referenced work order.

Signed for Elliott Aviation of Minneapolis, Inc.  
 David Nelson      CRS# KX5R005N


**MAINTENANCE RECORD**

Date:	May 21, 2019	Page 1 of 1 Pages	Reg. No: N85FD
Aircraft:	Beech C90GTi	Serial #: LJ-2021	Total Time / HM / Ldgs: 1,097.2 / 1,097.2 / 1076
#1 Prop:	Hartzell HC-D4N-3C	Serial #: FY4515	Total Time / TSO: 249.9

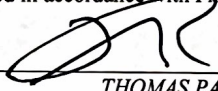
The below listed items were accomplished in accordance with the Beechcraft King Air® 90 Series Maintenance Manual and other approved or acceptable data as applicable. Work order discrepancy numbers are shown in brackets [ ], followed, in bold, directly by AD notes and SB's.

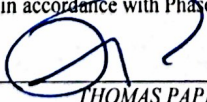
**Work Order 041909936**

- [500] This propeller has been inspected in accordance with the inspections and procedures for the aircraft manufacturer's recommended inspection program per 14 CFR, Part 91.409 (f) (3).
- [500] **Phase Inspections 3 and 4** were accomplished in accordance with chapters 5-25-03 and 5-25-04 of the Beechcraft King Air® 90 Series Maintenance Manual, P/N 90-590012-13C4, Revised May 1, 2017.
- [500] Complied with 400 hour/12 month periodic inspection i/a/w Hartzell Propeller Owner's Manual No. 149.
- [052] Dressed left propeller blades.

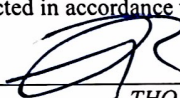
I certify that this propeller has been inspected in accordance with Phase Inspections 3 and 4 and was determined to be in an airworthy condition.

Signed **THOMAS PAPKA**  
 Central Flying Service, Inc.      Phone: (501) 375-3245, (800) 888-5387      CRS No. HBKR587E  
 1501 Bond Street, Little Rock, AR 72202      FAX (501) 374-2150


Date	Propeller	A/C Hrs	Description of all operations pertaining to Airworthiness Directives, Service Documents, Overhaul, Major or Minor Repair, and Inspections.	
<b>MAINTENANCE RECORD</b>				
Date:	May 18, 2020	Page 1 of 1 Pages	Reg. No: N85FD	
Aircraft:	Beech C90GTi	Serial #: LJ-2021	Total Time / HM / Ldgs: 1,214.7 / 1,214.7 / 1,173	
#1 Prop:	Hartzell HC-D4N-3C	Serial #: FY4515	Total Time / TSO: 367.4	
<p>The below listed items were accomplished in accordance with the Textron Aviation King Air® 90 Series Maintenance Manual and other approved or acceptable data as applicable. Work order discrepancy numbers are shown in brackets [ ], followed, in bold, directly by AD notes and SB's.</p> <p><u>Work Order 042010733</u></p> <p>[500] This propeller has been inspected in accordance with the inspections and procedures for the aircraft manufacturer's recommended inspection program per 14 CFR, Part 91.409 (f) (3).</p> <p>[500] <b>Phase Inspections 1 and 2</b> were accomplished in accordance with chapters 5-25-01 and 5-25-02 of the Textron Aviation King Air® 90 Series Maintenance Manual, P/N 90-590012-13D, Revised 1 December 2019.</p> <p>[500] Complied with 400 hour/12 month periodic inspection i/a/w Hartzell Propeller Owner's Manual No. 149.</p> <p>[500] Raisbeck Swept Turbofan Propellers (STC SA3593NM): Complied with Phase Inspections 1 and 2 i/a/w Raisbeck Engineering Maintenance Manual and Instructions For Continued Airworthiness, Document No. 85-120.</p> <p>[050] Removed and replaced prop beta block with a new p/n A3026.</p> <p>I certify that this propeller has been inspected in accordance with Phase Inspections 1 and 2 and was determined to be in an airworthy condition.</p> <p>Signed   Central Flying Service, Inc. <b>THOMAS PAPKA</b>  1501 Bond Street, Little Rock, AR 72202 Phone: (501) 375-3245, (800) 888-5387 CRS No. HBKR587E  FAX (501) 374-2150</p>				

Date	Propeller	A/C Hrs	Description of all operations pertaining to Airworthiness Directives, Service Documents, Overhaul, Major or Minor Repair, and Inspections.	
<b>MAINTENANCE RECORD</b>				
Date:	May 25, 2021	Page 1 of 1 Pages	Reg. No: N85FD	
Aircraft:	Beech C90GTi	Serial #: LJ-2021	Total Time / HM / Ldgs: 1,289.4 / 1,289.4 / 1,228	
#1 Prop:	Hartzell HC-D4N-3C	Serial #: FY4515	Total Time: 442.1	
<p>The below listed items were accomplished in accordance with the Textron Aviation King Air® 90 Series Maintenance Manual and other approved or acceptable data as applicable. Work order discrepancy numbers are shown in brackets [ ], followed, in bold, directly by AD notes and SB's.</p> <p><u>Work Order 042111461</u></p> <p>[500] This propeller has been inspected in accordance with the inspections and procedures for the aircraft manufacturer's recommended inspection program per 14 CFR, Part 91.409 (f) (3).</p> <p>[500] <b>Phase Inspections 3 and 4</b> were accomplished in accordance with chapters 5-25-03 and 5-25-04 of the Textron Aviation King Air® 90 Series Maintenance Manual, P/N 90-590012-13D, Revised 1 December 2019.</p> <p>[500] Complied with 400 hour/12 month periodic inspection i/a/w Hartzell Propeller Owner's Manual No. 149.</p> <p>[500] Raisbeck Swept Turbofan Propellers (STC SA3593NM): Complied with Phase Inspections 3 and 4 i/a/w Raisbeck Engineering Maintenance Manual and Instructions For Continued Airworthiness, Document No. 85-120.</p> <p>I certify that this propeller has been inspected in accordance with Phase Inspections 3 and 4 and was determined to be in an airworthy condition.</p> <p>Signed   Central Flying Service, Inc. <b>THOMAS PAPKA</b>  1501 Bond Street, Little Rock, AR 72202 Phone: (501) 375-3245, (800) 888-5387 CRS No. HBKR587E  FAX (501) 374-2150</p>				



Date	Propeller		A/C Hrs	Description of all operations pertaining to Airworthiness Directives, Service Documents, Overhaul, Major or Minor Repair, and Inspections.
	TSN	TSO		
<b>MAINTENANCE RECORD</b>				
Date:	May 18, 2022		Page 1 of 1 Pages	Reg. No: N85FD
Aircraft:	Beech C90GTi		Serial #: LJ-2021	Total Time / HM / Ldgs: 1,389.4 / 1,389.4 / 1,292
#1 Prop:	Hartzell HC-D4N-3C		Serial #: FY4515	Total Time: 542.1
<p>The below listed items were accomplished in accordance with current FAA regulations, manufacturer's technical data, and other approved or acceptable data as applicable. Work order discrepancy numbers are shown in brackets [ ], followed, in bold, directly by AD notes and SB's.</p> <p><u>Work Order 042212082</u></p> <p>[500] This propeller has been inspected in accordance with the inspections and procedures for the aircraft manufacturer's recommended inspection program per 14 CFR, Part 91.409 (f) (3).</p> <p>[500] <b>Phase Inspections 1 and 2</b> were accomplished in accordance with chapters 5-25-01 and 5-25-02 of the Textron Aviation King Air® 90 Series Maintenance Manual, P/N 90-590012-13D, Revised 1 December 2019.</p> <p>[500] Complied with 400 hour/12 month periodic inspection i/a/w Hartzell Propeller Owner's Manual No. 149.</p> <p>[451] Raisbeck Swept Turbofan Propellers (STC SA3593NM): Complied with Phase Inspections 1 and 2 i/a/w Raisbeck Engineering Maintenance Manual and Instructions For Continued Airworthiness, Document No. 85-120.</p> <p>[051] Dressed propeller blades.</p> <p>I certify that this propeller has been inspected in accordance with Phase Inspections 1 and 2 and was determined to be in an airworthy condition.</p> <p>Signed  <b>THOMAS PAPKA</b>  Central Flying Service, Inc. Phone: (501) 375-3245, (800) 888-5387  1501 Bond Street, Little Rock, AR 72202</p> <p style="text-align: right;">CRS No. HBKR587E FAX (501) 374-2150</p>				



9519 Airport Drive, Hangar 19  
Visalia, CA 93277

**Left Propeller**

DATE: 11/11/22

MODEL: HC-D4N-3C

TSN:

HOBBS: 1442.9

REG: N85FD

S/N: FY4515

1 DYNAMIC BALANCE PROPELLER.

  
BYRON VANDER WEIDE - A&P 3681179

PERTINENT DETAILS ON FILE: W.O. 85F11122

Date

Propeller  
TSN TSO

AC  
Hrs



9519 Airport Drive, Hangar 19  
Visalia, CA 93277

Left Propeller

DATE: 06/14/23 MODEL: HC-D4N-3C

ACTT: 1475.8

HOBBS: 1475.8

REG: N85FD S/N: FY4515

TSN: 628.5

TSO: N/A

- 1 PERFORM PHASE 3 & 4 INSPECTIONS IAW TEXTRON M/M.

*[Signature]*  
ANDREW VALENTYNE - A&P 4355586

*[Signature]*  
CHRISTIAN CRAWFORD - A&P 3275783

- 2 C/W 12 MO / 400 HR PROPELLER PERIODIC INSPECTION
- 3 C/W 12 MO / 400 HR PROPELLER HUB LUBRICATION
- 4 C/W 12 MO / 400 HR PROPELLER LUBRICATION
- 5 C/W 12 MO / 200 HR PROPELLER - DEICE SYSTEM INSPECTION
- 6 CHARGED PROPELLER ACCUMULATOR

*[Signature]*  
ANDREW VALENTYNE - A&P 4355586

\* I CERTIFY THAT THIS AIRCRAFT WAS INSPECTED IN ACCORDANCE WITH A CURRENT INSPECTION

PROGRAM REQUIRED BY FAR 91.409[F][3].

\* APPROVED FOR RETURN TO SERVICE.

*[Signature]*  
ANDREW VALENTYNE - A&P 4355586  
*[Signature]*  
CHRISTIAN CRAWFORD - A&P 3275783

PERTINENT DETAILS ON FILE: W.O. 85F061423



9519 Airport Drive, Hangar 19  
Visalia, CA 93277

Left Propeller

DATE: 06/10/24 MODEL: HC-D4N-3C

ACTT: 1639.4

HOBBS: 1639.4

REG: N85FD S/N: FY4515

TSN: 792.1

TSO: N/A

- 1 PERFORM PHASE 1 & 2 INSPECTIONS IAW TEXTRON M/M.

- 2 C/W 12 MO / 400 HR PROPELLER PERIODIC INSPECTION
- 3 C/W 12 MO / 400 HR PROPELLER HUB LUBRICATION
- 4 C/W 12 MO / 400 HR PROPELLER LUBRICATION
- 5 C/W 12 MO / 200 HR PROPELLER - DEICE SYSTEM INSPECTION
- 6 INSTALL NEW BETA BLOCK P/N: 05-07484.

\* I CERTIFY THAT THIS AIRCRAFT WAS INSPECTED IN ACCORDANCE WITH A CURRENT INSPECTION

PROGRAM REQUIRED BY FAR 91.409[F][3].

\* APPROVED FOR RETURN TO SERVICE.

*[Signature]*  
CHRISTOPHER DEWEY - A&P 3807564

*[Signature]*  
BYRON VANDER WEIDE IA/AP - 3681179

PERTINENT DETAILS ON FILE: W.O. 85F061024

*[Signature]*  
ANDREW VALENTYNE - A&P 4355586  
*[Signature]*  
CHRISTIAN CRAWFORD - A&P 3275783