

HARTZELL

**PROPELLER
OWNER'S MANUAL**



HARTZELL

PROPELLER LOGBOOK

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


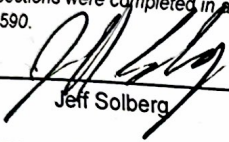
PROPELLER S/N FY 4518

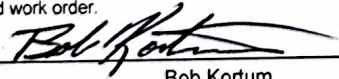
RH

LOGBOOK # 2

The approved design data for this propeller is as shown on the drawing.
The propeller covered by this certificate has passed a functional test.

INTRODUCTION

Date	Propeller		A/C Hrs	Description of all operations pertaining to Airworthiness Directives, Service Documents, Overhaul, Major or Minor Repair, and Inspections.
	TSN	TSO		
	WO# 461590		Date: 2/15/2017	
	Reg# N85FD		Prop SN: FY4518	
	Hobbs: 847.3			
	PTT: 0.0		PTSOH: 0.0	
				
Elliott Aviation of Minneapolis, Inc. Flying Cloud Airport 13801 Pioneer Trail Eden Prairie, MN 55347-2617				
Right Propeller Log Entry				
Modification & Refurbishment * Removed right prop p/n HC-E4N-3N/D8990SK, s/n HH4319. Installed Raisbeck Engineering STC #SA3593NM swept blade turboprop propeller. New prop p/n HC-D4N-3C/D9510SK, s/n FY4518 installed in right 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				
Page 1 of 1				

WO# 461739	Date: 5/19/2017			
Reg# N85FD	Prop SN: FY4518			
Hobbs: 884.8				
PTT: 37.5	PTSOH: 37.5			
				
Elliott Aviation of Minneapolis, Inc. Flying Cloud Airport 13801 Pioneer Trail Eden Prairie, MN 55347-2617				
Right Propeller Log Entry				
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				
Page 1 of 1				

The approved design data for this propeller incorporates all change
 The propeller covered by this certificate has passed a functional

INTRODUCTION

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



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

WO# 462636
Reg# N85FD
Hobbs: 987.4

Date: 6/18/2018
Prop SN: FY4518

Right 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 David Nelson

for Elliott Aviation of Minneapolis, Inc.
CRS# KX5R005N

Page 1 of 1

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
#2 Prop: Hartzell HC-D4N-3C	Serial #: FY4518	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.
- [105] Dressed right 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.
1501 Bond Street, Little Rock, AR 72202

Phone: (501) 375-3245, (800) 888-5387

CRS No. HBKR587E
FAX (501) 374-2150

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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MAINTENANCE RECORD			
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
#2 Prop:	Hartzell HC-D4N-3C	Serial #: FY4518	Total Time / TSO: 367.4

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.

Work Order 042010733

[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).

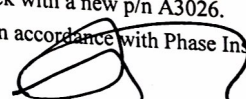
[500] **Phase Inspections 1 and 2** were accomplished in accordance with chapters 5-25-01 and 5-25-02 of the Textron Aviation King Air® 90 Series Maintenance Manual, P/N 90-590012-13D, Revised 1 December 2019.

[500] Complied with 400 hour/12 month periodic inspection i/a/w Hartzell Propeller Owner's Manual No. 149.

[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.

[100] Removed and replaced prop beta block with a new p/n A3026.

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.

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

MAINTENANCE RECORD			
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
#2 Prop:	Hartzell HC-D4N-3C	Serial #: FY4518	Total Time: 442.1

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.

Work Order 042111461

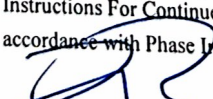
[500] This propeller has been inspected in accordance with the inspections and procedures for the aircraft manufacturer's recommended inspection program per 14 CFR, Part 91.409 (f) (3).

[500] **Phase Inspections 3 and 4** were accomplished in accordance with chapters 5-25-03 and 5-25-04 of the Textron Aviation King Air® 90 Series Maintenance Manual, P/N 90-590012-13D, Revised 1 December 2019.



[500] Complied with 400 hour/12 month periodic inspection i/a/w Hartzell Propeller Owner's Manual No. 149.

[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.

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

Date	Propeller TSN TSO	A/C Hrs	Description of all operations pertaining to Airworthiness Directives, Service Documents, Overhaul, Major or Minor Repair, and Inspections.
MAINTENANCE RECORD			
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
#2 Prop:	Hartzell HC-D4N-3C	Serial #: FY4518	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] Phase Inspections 1 and 2 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>[100] 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 _____ Central Flying Service, Inc. 1501 Bond Street, Little Rock, AR 72202 Phone: (501) 375-3245, (800) 888-5387</p> <p style="text-align: right;">CRS No. HBKR587E FAX (501) 374-2150</p>			

 <p>9519 Airport Drive, Hangar 19 Visalia, CA 93277</p> <p>Right Propeller</p>			
DATE: 11/11/22	MODEL: HC-D4N-3C	TSN:	HOBBS: 1442.9
REG: N85FD	S/N: FY4518		
1 DYNAMIC BALANCE PROPELLER.			
 BYRON VANDER WEIDE - A&P 3681179			
PERTINENT DETAILS ON FILE: W.O. 85F111122			

Date

Propeller
TSN TSO A/C
Hrs

Service 9519 Airport Drive, Hangar 19
Visalia, CA 93277

conforming to Airworthiness Directives,
Major or Minor Repair, and Inspections.

Right Propeller

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

ACCT: 1475.8

HOBBS: 1475.8

REG: N85FD

S/N: FY4518

TSN: 628.5

TSO: N/A

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

Andrew Valentyne
ANDREW VALENTYNE - A&P 4355586

Christian Crawford
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
- 7 REMOVE & REPLACE PROPELLER BETA BLOCK

Andrew Valentyne
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.

Andrew Valentyne
ANDREW VALENTYNE - A&P 4355586
Christian Crawford
CHRISTIAN CRAWFORD - A&P 3275783

PERTINENT DETAILS ON FILE: W.O. 85F061423



9519 Airport Drive, Hangar 19
Visalia, CA 93277

Right Propeller

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

ACCT: 1639.4

HOBBS: 1639.4

REG: N85FD

S/N: FY4518

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.

Christopher Dewey
CHRISTOPHER DEWEY - A&P 3807564

Byron Vander Weide
BYRON VANDER WEIDE IA/AP - 3681179

PERTINENT DETAILS ON FILE: W.O. 85F061024

Andrew Valentyne
ANDREW VALENTYNE - A&P 4355586

Christian Crawford
CHRISTIAN CRAWFORD - A&P 3275783