

# On-Site Aircraft Review

## 1998 King Air B200 BB-1625



Report Date: 2/16/2024

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## Aircraft Data

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### Airframe Details

<b>Aircraft Manufacture</b>	Beechcraft
<b>Aircraft Model (Type)</b>	King Air B200 ( <a href="#">FAA TCDS A24CE</a> )
<b>Aircraft Serial Number</b>	BB-1625
<b>Date of Manufacture</b>	17-AUG-1998

### Engine 1 Details

	Engine			Propeller
<b>Manufacturer</b>	Pratt & Whitney Canada			Hartzell
<b>Model (Type)</b>	PT6A-42			HC-E4N-3G/D9390SK-1R
<b>Part Number</b>				
<b>Serial Number</b>	PJ0187			HH518
<b>Maintenance Checks</b>	<b>Engine Since New</b>	<b>Engine Overhaul</b>	<b>Engine Hot Section</b>	<b>Overhaul (6-Years)</b>
<b>Hours</b>	6094.5	Last: 2374.7 Due: 6593.3 Remain: 498.8	Last: 4790.5 Due: 6590.5 Remain: 496.0	Last: 17-JUN-2022 Due: 17-JUN-2028
<b>Cycles</b>	8896	N/A	N/A	N/A
<b>Notable items</b>				

### Engine 2 Details

	Engine			Propeller
<b>Manufacturer</b>	Pratt & Whitney Canada			Hartzell
<b>Model (Type)</b>	PT6A-42			HC-E4N-3G/D9390SK-1R
<b>Part Number</b>				
<b>Serial Number</b>	PJ0207			HH514
<b>Maintenance Checks</b>	<b>Since New</b>	<b>Overhaul</b>	<b>Hot Section</b>	<b>Overhaul (6-Years)</b>
<b>Hours</b>	6094.5	Last: 2374.7 Due: 6593.3 Remain: 498.8	Last: 4790.5 Due: 6590.5 Remain: 496.0	Last: 17-JUN-2022 Due: 17-JUN-2028
<b>Cycles</b>	8896	N/A	N/A	N/A
<b>Notable items</b>				

## Inspection Status

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Inspection	Interval	Last C/W	Due	Remaining
Phase 1	24 Mos	6070 Hrs	6670	575
Phase 2	24 Mos	6070 Hrs	6870	775
Phase 3	24 Mos	5977 Hrs	6270	175
Phase 4	24 Mos	5977 Hrs	6470	335
Full Phase Cycle	24 Mos	17-JUN-2022	17-JUN-2024	
Altimeter & Pitot-Static System (91.411)	24 Mos	1-SEP-2022	1-SEP-2024	
Transponder Checks (91.413)	24 Mos	1-SEP-2022	1-SEP-2024	
ELT Operational Check	12 Mos	13-SEP-2023	13-SEP-2024	
ELT Battery Replacement	60 Mos	25-APR-2019	20-JUN-2024	
Landing Gear Inspection	72 Mos	17-JUN-2022	17-JUN-2028	
	8000 Ldgs	8742 Ldgs	16742 Ldgs	7816 Ldgs
Wing Bolt Inspection	60 Mos	13-SEP-2023	13-SEP-2028	
Wing Bolt Replacement	180 Mos	13-SEP-2023	13-SEP-2038	
Engine Hose Replacement	60 Mos	14-AUG-2019	14-AUG-2024	
Engine Fuel Nozzle Cleaning	400 Hrs	5684 Hrs	6284 Hrs	189

Operating Manual

**Raytheon Aircraft Company**

**Beechcraft**

**Super King Air® B200/B200C**  
(Serials BB-1439, BB-1444 thru BB-1842, except BB-1463 and BB-1834; BL-139 thru BL-147; BW-1 thru BW-29)

**Pilot's Operating Handbook  
and  
FAA Approved Airplane Flight  
Manual**

FAA Approved in the Normal Category based on 14 CFR Part 23. This document must be carried in the airplane at all times, and be kept within reach of the pilot during all flight operations. This handbook includes the material required to be furnished to the pilot by 14 CFR Part 23.

Airplane Serial Number: BB 1625

Airplane Registration Number: N 77CV

FAA Approved by: *John Tighe*  
John Tighe  
Raytheon Aircraft Company  
DOA-230339-CE

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P/N 101-590010-307C  
~~Released: December, 2006~~ P/N 101-590010-307C6  
Revised: December, 2004



August 23, 2018

WEIGHT & BALANCE REVISION

# N77CV


OWNER: PENNSYLVANIA STATE UNIVERSITY      ADDRESS: 2535 FOX HILL ROAD  
STATE COLLEGE, PA. 16803-1727

MAKE: Raytheon Aircraft Co      MODEL: B200      S/N: BB-1625

Previous Empty Weight: 8,457.34      Dated 8/3/2018  
Previous Arm: 184.25  
Previous Moment: 1,558,261.48

Removed Equipment				
ITEM	QTY	WEIGHT	ARM	MOMENT
GARMIN INTERNATIONAL INC GTX-335R #2 Transponder PN: 011-03301-00	1	-3.30	367.00	-1211.10
ITEM	QTY	WEIGHT	ARM	MOMENT
GARMIN INTERNATIONAL INC ADS-B OUT GTX-335R #2 Transponder PN: 011-03301-40	1	3.30	367.00	1211.10
#2 GA-36 GPS Antenna	1	0.47	230.00	108.10

NEW EMPTY WEIGHT: 8457.81  
CENTER OF GRAVITY: 184.25  
MOMENT: 1,558,369.58

SIGNED:   
Brian W. Sullivan for  
ELLIOTT AVIATION OF THE QUAD CITIES, INC.  
FAA APPROVED REPAIR STATION # CGHRB12C  
QUAD CITY AIRPORT, MOLINE, IL

## Records Review

### Damage History

09-OCT-2007	<b>Description:</b> Bird strike	<b>Facility:</b> The Pennsylvania State University @ KUNV (OU1R387K)
	<b>Narrative:</b> Bird strike on RH wing. Replaced RH heat exchanger with new. No other damage noted.	
	<b>Resolution Documentation:</b> logbook entry dated 09-OCT-2007	

07-OCT-2021	<b>Description:</b> Bird strike	<b>Facility:</b> The Pennsylvania State University @ KUNV (OU1R387K)
	<b>Narrative:</b> Bird strike on LH wing. Ferry flight to KUNV for repairs. Left wing leading edge repair between WC250.985 and WS260.925. Damaged are 10"x5" was trimmed out and repair doubler installed.	
	<b>Resolution Documentation:</b> Logbook entry dated 07-OCT-2021 & 23-NOV-2021 Standard Repair Drawing SR-KA-ATA57-22456 dated 26-JUL-2019	

### Major Repairs & Alterations

Date	Rep/Alt	Description	Approval	Facility
17-AUG-1998	Alteration	Installation of Cleveland Wheels & Brakes conversion kit	STC SA1509GL	
25-AUG-1998	Alteration	Remove Saft ni-cad battery and installation of Concord RG380E lead acid battery.	STC SA2699SO	Elliott Aviation, Moline IL. (CGHR812C)
26-AUG-1998	Alteration	Installation of Universal UNS-1K FMS & CAS-66A TCAS-I	STC SA115CH Universal Installation Manual 34-60-12 Dated July 1997	Elliott Aviation, Moline IL. (CGHR812C)
03-AUG-2004	Alteration	Installation of Sandel TAWS/RMI	STC SA01340LA	Capital Aviation & Avionics, Manassas, VA (OY1R391K)
25-MAR-2005	Alteration	Removal of Concord Battery RG 380E/40K and installation of Concord Battery RG 380E/60L	STC SA01260WI	The Pennsylvania State University, State College, PA (OU1R387K)
22-JUN-2005	Alteration	Installation of Cleveland wheels & brakes conversion kit #199-126 for nose wheel assembly	STC SA757GL	The Pennsylvania State University, State College, PA (OU1R387K)
11-AUG-2008	Alteration	Removal of Artex ELT 110-4 and installation of Artex ELT G406-4	Artex Installation Manual 570-5012 Rev. E.  Artex Installation Manual 570-4602 Rev. E.	The Pennsylvania State University, State College, PA (OU1R387K)
03-AUG-2018	Alteration	Removal of Collins TDR-94 transponders. Install of Garmin GTX-335R & GTX-345R transponders w/ ADS-B Out	STC# ST00835DE	Elliott Aviation of Des Moines, Inc. (CGHR812C)
23-AUG-2018	Alteration	Installation of Garmin Flight Stream 510	STC# ST00835DE – Modification	Elliott Aviation of Des Moines, Inc. (CGHR812C)

## Appendices

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Appendix 1 – Maintenance Status Report
Appendix 2 – 2007 Bird Strike Logbook Entry
Appendix 3 – 2021 Bird Strike Logbook Entry



# Appendix 1 – Maintenance Status Report

<b>Flight Operations Maintenance</b>	<b>Status</b>	<b>Hobbs Time</b>	853.1	<b>Aircraft TT:</b>	6094.5	<b>Status</b>	<b>Checks</b>
Make & Model: King Air B200		R-Engine Cyc	8896	Current Date	9-Feb-24	Hours	<10
<b>N Number: N77CV</b>		L-Engine Cyc	8896			Days	<25
Serial Number: BB1625		Gear Cyc	8926	<b>Cycles Last Entered</b>	9-Feb-24	Cycles	<50
Last inspection Type:	Phase complete:	Flap Cyc	8926				
Last Inspection Time:	6070.1						
Last Inspection Date:	22-Sep-23	Add Time: 5240.8					

WO#	Item	Frequency	Hours	Installation Date	Cycles	Hobbs Hours	Inspection Removal Date	Cycles	Hours	Remaining Days	Cycles	Status
11936	Phase 1	200HRS	6070			6670.1			575.6			
12130	Phase 2	400HRS	6070			6870.1			775.6			
11373	Phase 3	600HRS	5977			6270.1			175.6			
11524	Phase 4	800HRS	5977	17-Jun-22		6470.1	17-Jun-24		375.6	128		
<b>****AD'S****</b>												
<b>****Periodic Inspections****</b>												
11161	Lt. ENGINE Oil Filter Replace	1000HRS	5961			6960.7			866.2			
	Lt Engine oil filter clean	200Hrs.	6070			6270.1			175.6			
13227	Lt. Engine Oil Change ( Oper. Descr:	600HRS	5977			6577.2			482.7			
11161	Rt. Engine Oil Filter Replace	1000HRS	5961			6961			866.5			
	Rt. Engine oil filter clean	200Hrs.	6070			6270.1			175.6			
13227	Rt. Engine oil change ( Oper. Descres	600Hrs.	5977			6577.2			482.7			
13227	Lt. Engine Fuel Nozzle Clean	400HRS	5684			6284.2			189.7			
13227	Rt. Engine fuel Nozzle Clean	400HRS	5684			6284.2			189.7			
11161	Lt. Eng. Start. Gen Overhaul	800HRS	5485			6284.7			190.2			
11161	Rt. Eng. Start. Gen. overhaul	800HRS	5485			6284.7			190.2			
	Lt. Eng. Overspeed Gov.	6500 Hr.	2993			9493.3			3398.8			
	Rt. Eng. Overspeed Gov.	6500 Hr.	2993			9493.3			3398.8			
	Left Engine Hoses Replace	5YRS		14-Aug-19			14-Aug-24			186		
11373	Right Engine Hoses Replace	5YRS		14-Aug-19			14-Aug-24			186		
13227	Performance Wash (Oper. Descr.)	100HRS	5977			6077			-17.5			
13227	Water & CT Wash (Oper. Descr.)	25HRS.	5977			6002			-92.5			check
12440	ELT BAT. Replace	5YRS		25-Apr-19			20-Jun-24			131		
13227	FAR 91.207(d) ELT oper. Check	1 YR.		13-Sep-23			13-Sep-24			216		
TA6988	ATC Trans. Test FAR 91.413	2YRS		1-Sep-22			1-Sep-24			204		
TA16988	ALT & Stat. Test FAR 91.411	2YRS		1-Sep-22			1-Sep-24			204		
11524	RGB screen Insp.	1000 Hrs.	5977			6977			882.5			
11936	AGB Screen Insp.	1000 Hrs.	5977			6977			882.5			

Engine Type	Serial #	Time Installed	Hours	Rt. Engine RT. ENG INSP	Engine Type	Serial #	Time Installed	Hours
PT6A-42	PCE-PJ0187	0	Hours		PT6A-42	PCE-PJ0207	0	Hours
TSNEW (TSN)		6094.5			TSNEW (TSN)		6094.5	
Total Cycles (CSN)		8896	Cycles		Total Cycles (CSN)		8896	Cycles
TSO		3101.2	Hours		TSO		3101.2	Hours
CSO		4725	Hours		CSO		4725	Hours
Time Since H.S.I.		1304	Hours		Time Since H.S.I.		1304	Hours
O/H Performed		2993.3	Hours		O/H performed		2993.3	Hours
H.S.I. Performed		4790.5	Hours		H.S.I. Performed		4790.5	Hours
O/H Due		3600	Hours		O/H Due		3600	Hours

<b>Flight Operations Maintenance</b>	<b>Status</b>	<b>Hobbs Time</b> 853.7	<b>Aircraft TT:</b> 6094.5	<b>Status</b>	<b>Checks</b>
Make & Model: King Air B200		R-Engine Cyc 8896	Current Date 9-Feb-24	Hours <10	
<b>N Number: N77CV</b>		L-Engine Cyc 8896		Days <25	
Serial Number: BB1625		Gear Cyc 8926	Cycles Last Entered 9-Feb-24	Cycles <50	
Last inspection Type:	Phase complete	Flap Cyc 8926			
Last inspection Time:	6070.1				
Last Inspection Date:	22-Sep-23	Add Time: 5240.8			

WO#	Item	Frequency	Inspection Installation			Inspection Removal			Remaining		Status		
			Hours	Date	Cycles	Hobbs Hours	Date	Cycles	Hours	Days			
	Time to O/H	498.8	Hours				Time to O/H	498.8	Hours				
	Time to H.S.I.	496	Hours				Time to H.S.I.	496	Hours				
	<b>Prop. LT. Hartzell S/B 61</b>	3500HRS	5038			8538.2		2443.7					
	O/H or replace	or 6YRS	17-Jun-22				17-Jun-28		1589				
	<b>Prop. RT. Hartzell S/B 61</b>	3500HRS	5038			8538.2		2443.7					
	O/H or replace	or 6YRS	17-Jun-22				17-Jun-28		1589				
Left Prop.	Make: Hartzell Model: HC-E4N-3G/D9390SK-1R Serial No. HH518					Right Prop	Make: Hartzell Model: HC-E4N-3G/D9390SK-1R Serial N. HH514						
	<b>Special Inspection</b>	<b>Item</b>	<b>Frequency</b>	<b>Hours</b>	<b>Date</b>	<b>Cycles</b>	<b>Hours</b>	<b>Date</b>	<b>Cycles</b>	<b>Hours</b>	<b>Remaining Days</b>	<b>Cycles</b>	<b>Status</b>
12130	Landing Gear Assemblies Inspect	8000Cyc Or 6 YRS		17-Jun-22		8742		17-Jun-28		16742	1589	7816	
13175	Lndg. Gear Act. Clevis Nose & Main	1000Cyc.				8742			9742			816	
	Gear Hoses-Replace	10 YRS		13-April-18				13-Apr-28			1524		
12440	Landing Gear Hydraulic Filter Replace	1000Cyc or 1200 HRS	5611			8065	6811.4		9065	716.9		139	
	Landing Gear Hand Pump Inlet Filter	800 Hrs	5684				5434.2			389.7			
TA17572	Brake Hoses-Replace	5 YRS		13-Sep-23				13-Sep-28			1677		
	Flap Ext. Mechanism Inspect	5000Cyc				4939			9939			1013	
	Wing Bolts/ Bathtub Insp & Eddy curr	5 YRS		13-Sep-23				13-Sep-28			1677		
	Wing Bolt Shear Replace	5YRS		13-Sep-23				13-Sep-28			1677		
	Wing Bolts Inconnel-Replace	15 YRS		13-Sep-23				13-Sep-38			5329		
	Oxygen Cylinder hydro Test	5YRS		6-Sep-22				6-Sep-27			1304		
	Oxyegn bottle	15 Yr.		6-Feb-22				6-Sep-37			4957		
12580	Oxygen Valve "O" Ring-Replace	24 Mo.		30-May-23				30-May-25			475		
13227	Barometric Switches alt & oxy	12 Mo.		13-Sep-23				13-Sep-24			216		
	Fire Ext Hydro Test- cockpit	12YRS		17-Jun-22				17-Jun-32			3050		
	Fire Ext Hydro Test - cabin	12 Yr.		17-Jun-22				17-Jun-32			3050		
	Fire ext Cor. Insp - cockpit.	6 Yr.		17-Jun-22				17-Jun-28			1589		
	Fire ext Cor Insp - cabin	6 Yr.		17-Jun-22				17-Jun-28			1589		
	Fire Ext (2) Monthly Insp.	Monthly		3-Jan-24				3-Feb-24			-6		check
	Spar Cap Inspect	1YR		3-Jan-24				3-Jan-25			328		
12283	Fuel Cell Probes	Phase 1 inspection	6070				6670.1			575.6			
	Airstair Door and Escape Hatch	5000/ 1000Cyc				8742			9742			816	
	Cabin Door Latch Bolt-Replace	5000 CYC				4939			9939			1013	
	Fuselage Frame web FS179-FS271	2500 Cyc				7426			9926			1030	
	Upper & lower Windshield & storm W	10000 Cyc				0			10000			1074	

<b>Flight Operations Maintenance</b>	<b>Status</b>	<b>Hobbs Time</b> 853.7	<b>Aircraft TT:</b> 6094.5	<b>Status</b>	<b>Checks</b>
Make & Model: King Air B200		R-Engine Cyc 8896	Current Date 9-Feb-24	Hours <10	
<b>N Number: N77CV</b>		L-Engine Cyc 8896		Days <25	
Serial Number: BB1625		Gear Cyc 8926		Cycles <50	
Last Inspection Type:	Phase complete	Flap Cyc 8926	Cycles Last Entered	9-Feb-24	
Last Inspection Time:	6070.1				
Last Inspection Date:	22-Sep-23	Add Time: 5240.8			

WO#	Item	Frequency	Inspection Installation			Inspection Removal			Remaining		Status
			Hours	Date	Cycles	Hours	Date	Cycles	Hours	Days	
	Exterior skin insp.	10000 Cyc.			0			10000			1074
	Fuselage frame Sta.FS 84.4 - FS 347	10000 Cyc.			0			10000			1074
	Stingers from FS 88.0- FS 125 & Instrument Panel support Brkt.	10000 Cyc.			0			10000			1074
	Cabin Door upper hook-Replace	10000 CYC			0			10000			1074
	Flight Controls	10000/ 5000 Cyc.			0			10000			1074
	Aft fuselage Area & Rear press bulk h	10000/500 CYC			0			10000			1074
	Forward Pressure Bulkhd.	2500 CYC.			7170			9670			744
TA15322	Dukane ULB Battery-Replace	6YRS		17-Jun-22						17-Jun-28	1589
	Underwater beacon ops ck	24 Mo		17-Jun-22						17-Jun-24	128
	Vertical Stabilizer Insp.	12 Mo.		13-Sep-23						13-Sep-24	216
	Horizontal Stabilizer Insp.	12 Mo.		13-Sep-23						13-Sep-24	216
	12420 CVR Functional Test	24 Mo.		26-Apr-23						26-Apr-25	441
11373	Edge Lighted Panels-Insp.	2000HRS Or 4 YRS	5977	17-Jun-22		7977		1882.5		17-Jun-26	858
13227	Wing Bonded Panel- Insp.	600HRS	5977			6577		482.5			

<b>Flight Operations Maintenance</b>	<b>Status</b>	<b>Hobbs Time</b> 853.7	<b>Aircraft TT:</b> 6094.5	<b>Status</b>	<b>Checks</b>
Make & Model: King Air B200		R-Engine Cyc 8896	Current Date 9-Feb-24	Hours <10	
<b>N Number: N77CV</b>		L-Engine Cyc 8896		Days <25	
Serial Number: BB1625		Gear Cyc 8926	Cycles Last Entered 9-Feb-24	Cycles <50	
Last inspection Type:	Phase complete 6070.1	Flap Cyc 8926			
Last inspection Time:	22-Sep-23	Add Time: 5240.8			
Last Inspection Date:					

WO#	Item	Frequency or 18 Mo	Inspection Installation		Inspection Removal		Hours	Remaining Days	Cycles	Status
			Hours	Date	Hours	Date				
			5961	17-Jun-22	6960.7	17-Jan-24	866.2	-23		
	P3 Filter Replace	1000HRS	5961		6960.7		866.2			
13227	Rudder boost Filter-Replace	400HRS	5977		6377		282.5			
	Central Vacuum Filter-Replace	600HRS	5977		6577		482.5			
	Pressurization Control Filter-Replace	600HRS	5977		6577		482.5			
13227	Pedestal Power Pin Inspect 1/3 Diameter	1200HRS	5684		6884.2		789.7			
12440	Lead Acid Battery - Replace (OC)	24 Mo.		17-Jun-22		17-Jun-24		128		
13227	Capacidence Check - Battery or	12 Mo. 200 HRS	6070	13-Sep-23	6270.1	13-Sep-24	175.6	216		
12687	S/B 27-3459 Flight Control Gust Lock	12 Month		13-Sep-23		13-Sep-24		216		
12337	PS 835 Emer. Power Supply	6 Month		13-Sep-23		13-Mar-24		32		
12440	PS 835 Emer. Power Supply	12 Month		13-Sep-23		13-Sep-24		216		
	Life Vest Recertify	10 Yr		18-Jun-09		11-Apr-29		1887		
	Elevator bobweight link inspection	5000Cyc.			7526		12526	3600		
	Flap track; bracket roller & attach hardware	3000Cyc./ 3 Yr.		17-Jun-22	8742	17-Jun-25	11742	493	2816	
	Cockpit and cabin with interior remove	2500 Cyc			7526		10026	1100		
	Ducting; wiring; plumbing; press control; oxygen ,ect.									
	Nacelle splice plates	6YRS/ 12 month.		13-Sep-23		13-Sep-24		216		
	Fuel panel & Rt cir/ brk panel insp.	12 Mo.		13-Sep-23		13-Sep-24		216		
	Emergency illumines panel check	7 Yr.		7-Apr-17		7-Apr-24		57		
	MedAir first aid kit.	12 mo.		13-Sep-23		13-Sep-24		216		

Appendix 2 – 2007 Bird Strike Logbook Entry

ITEM	DATE/TIME		INSPECTED	COMPLYING	NOTATIONS	NEXT
	DUE	CHECKED	BY	AGENCY		DUE

Date: 10/09/2007; Aircraft: N77CV; Hobbs: 2445.60; Total Time: 2445.60; Engine 1 Type: PT6-42, S/N: PJ0187, Time: 2445.60; Engine 2, Type: PT6-42, S/N: PJ0207, Time: 2445.60

- (1). Lubed nose gear
- (2). Painted both inboard leading edges.
- (3). Replaced right heat exchanger with new unit and hose couplers due to bird strike. P/NH. 101-381010-3 S/N. 3550.

I certify that the work performed above on this airframe/engine has been inspected and determined to be an airworthy condition for The Pennsylvania State University.

Authorized Signature: Chris Pyle Chief Inspector  
CRS# OU1R387K

Appendix 3 – 2021 Bird Strike Logbook Entry

The Pennsylvania State University  
University Park Airport  
2701 Fox Hill Road  
State College, PA. 16823

Date: 10/07/2021; Aircraft: N77CV; Total Time: 5946.20; Engine 1 Type: PT6-42, S/N: PJ0187, Time: 5950.10; Turbine 1, H/S Time: 5950.10, Cycles: 8673; Engine 2, Type: PT6-42, S/N: PJ0207, Time: 5950.10; Turbine 2, H/S Time: 5950.10, Cycles: 8673

WO# TA22341

- (1). Prepared left wing leading edge per Textron Aviations Team Structures maintenance recommendations. Deactivated pneumatic deice boot system and placarded. Visually inspected external adjacent areas for defects no fault found, and verified aircraft is safe for ferry flight.

I certify that the work performed above on this airframe/engine has been inspected and determined to be an airworthy condition for The Pennsylvania State University.

Authorized Signature: Chris Pyle For Repair Station  
CRS# OU1R387K

Date: 11/23/2021; Aircraft: N77CV; Total Time: 5960.70; Engine 1 Type: PT6-42, S/N: PJ0187, Time: 5964.60; Turbine 1, H/S Time: 5964.60, Cycles: 8681; Engine 2, Type: PT6-42, S/N: PJ0207, Time: 5964.60; Turbine 2, H/S Time: 5964.60, Cycles: 8681

WO# TA22341

Left wing leading edge repair between WC250.985 and WS260.925. trimmed out damaged area. 10 inches long by 5.0 inches in width. performed dye penetrate inspection of damaged area for cracks no fault found. Fabricated doubler out of .040 2024T3 al clad aluminum and formed to match wing contour. Per SR-KA-ATA57-22456 standard repair drawing. Drilled and reamed and countersink all holes. in accordance King Air SIRM 20-50-02 maintain 2D edge distance on all fasteners. And 4D to 6D on all new fasteners. with 2 row of rivets. Debarred cut out and doubler as needed. filled all removed existing rivet holed under doubler with conical washers and secured in position with EA-90309NA adhesive. Acidine all bare aluminum in accordance with King Air SIRM 20-30-00 and primed. With epoxy primer. Installed doubler with blind fasteners and EA9309NA adhesive In accordance with King Air SIRM 20-50. Formed fillet around repair edge and sanded smooth. No change in weight and balance.

all repair procedures where accomplished using standard leading edge deformation repair for Lt/Rt Outboard wings ,Leading Edge ass4employ, Skins, Electrical conduits, and fuel vent line. Drawing No. SR-KA ATA57-22456. Dated July 26 2019.

I certify that the work performed above on this airframe/engine has been inspected and determined to be an airworthy condition for The Pennsylvania State University.

Authorized Signature: Chris Pyle For Repair Station  
CRS# OU1R387K