

AIRCRAFT 31N  
40.432

# AIRCRAFT TECHNICAL LOGS

## Section 1. AIRFRAME

AIRCRAFT

1. Nationality and Registration N18.32DS
2. Manufacturer's Designation DA40
3. Manufacturer's Serial Number 40.432
4. Type Approval or Specification Number A-224/A47CE
5. Date of Manufacture 2004
6. Aircraft Inspection Cycle \_\_\_\_\_
7. GROSS WEIGHT - MAX T.O. 2535 #

# AIR TIME AND

## ENGINEERING RECORD

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR CO

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
	HRS.	MIN.	HRS.	MIN.
BROUGHT FORWARD	0	0	0	0

AIRCRAFT NEW WITH HARTZELL PROPELLER INSTALLED

**Diamond**

DIAMOND AIRCRAFT INDUSTRIES INC.  
D.O.T. APPROVED MANUFACTURER #161-93

21 OCT 2004 S/N 40.432  
COMPASS DEVIATION, ALL ELECTRICS ON

FOR	N	30	60	E	120	150
STEER	360	030	060	090	120	150
FOR	S	210	240	W	300	330
STEER	180	210	239	269	300	330

SERIAL NUMBER

REGISTRATION MARK

40.432

N832DS

**Diamond**

INDEPENDENT CHECK OF FLIGHT AND POWERPLANT CONTROLS

DATE

DA  
Q 85

INSPECTOR

26 October, 2004

*Albert Pappas*

26 OCT 2004	0	0	0	0	AIRCRAFT SERVICEABLE FOR FLIGHT
26 OCT 2004	0	0	2.5		
27 OCT 2004			2.5		AIRCRAFT SERVICEABLE FOR FLIGHT
27 OCT 2004			3.4		
27 OCT 2004			4.2		
27 OCT 2004			4.5		
01 NOV 2004			4.5		ALL DISCREPANCIES RECTIFIED

**Diamond**

DIAMOND AIRCRAFT INDUSTRIES INC.  
D.O.T. APPROVED MANUFACTURER #161-93

I HEREBY CERTIFY THAT THIS AIRCRAFT CONFORMS TO THE  
APPROVED TYPE DESIGN DATA AND IS IN A FIT AND SAFE STATE  
FOR FLIGHT.

DATE

01 November, 2004

INSPECTOR

*H. Hunt*

DA  
Q 11

# ENGINEERING RECORD

1

INSPECTION, REPAIRS & REPLACEMENT

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE  
NUMBER

Z No. 3401850CH, GEMINI INTEGRATED AVIONICS SYSTEM INSTALLED AS PER STC No. 3401850CH

**Diamond**

I certify that the ATC Transponder & Altitude Reporting System(s) have been tested in Accordance with Chapter 571, Appendix F F.A.R. 91:217: & F.A.R. 91:413.

DATE

INSPECTOR

26 October, 2004

H. Hensel  

**Diamond**

The ELT was tested and inspected in Accordance with Chapter 571, Appendix G of the Airworthiness Manual and F.A.R. 91:207(d)

ANNUAL INSPECTION DUE: OCTOBER 2005

BATTERY DUE: JANUARY 2007

DATE

INSPECTOR

26 October, 2004

H. Hensel  

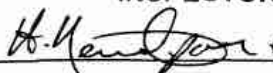

**Diamond**

I certify that the Static Pressure system has been inspected and tested in accordance with Chapter 571, Appendix B of the Airworthiness Manual, and F.A.R. 91:411

DATE

INSPECTOR

26 October, 2004

H. Hensel  

**Diamond**

DIAMOND AIRCRAFT INDUSTRIES INC.  
D.O.T. APPROVED MANUFACTURER #161-93

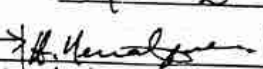

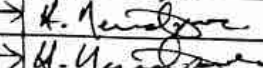

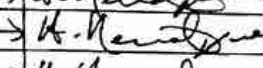

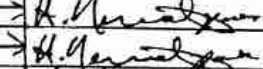

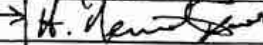

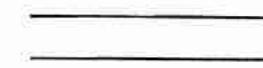



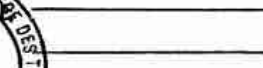

THIS AIRCRAFT WAS INSPECTED FOR CONFORMITY TO APPLICABLE COMPANY RELEASED DOCUMENTS (DRAWINGS, SPECIFICATIONS, CONCESSIONS) AND IS SERVICEABLE.

DATE

INSPECTOR

26 October, 2004

H. Hensel  

- > H. Hensel  
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- > H. Hensel  
- > H. Hensel  

**Diamond**

U.S. STANDARD AIRWORTHINESS CERTIFICATE  
ISSUED

DATE: NOV 03 2004

AND INSTALLED IN THE

AIRCRAFT ON BEHALF OF THE F.A.A. ON

DATE: NOV 03 2004

NE-MIDO-46



DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		NOTE: USE BOTH PAGES AND A2
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD			4.5		



FAA APPROVED REPAIR STATION ~~MISSOURI~~  
N832DS

*Avionics of*  
MODERN AERO, INC.  
14801 PIONEER TRAIL  
EDEN PRAIRIE, MN 55347  
952-941-2595

HOBBS: 25.3

Replaced GEA-71 with new s/n 46702231.  
unit. Ramp checked and found satisfactory.  
Avionics of Modern Aero, Inc.  
CRS 05VR 353Y

Loaded software and configured  
Eden Prairie, MN 55347  
W/O# 3685  
Greg Isham



FAA APPROVED REPAIR STATION ~~MISSOURI~~  
N832DS

*Avionics of*  
MODERN AERO, INC.  
14801 PIONEER TRAIL  
EDEN PRAIRIE, MN 55347  
952-941-2595

HOBBS: 25.3

Replaced KC140 A/P computer with serviceable unit S/N UM5170. Ramp  
checked and found satisfactory.  
Avionics of Modern Aero, Inc.  
CRS 05VR 353Y

Eden Prairie, MN 55347  
W/O# 3697  
Greg Isham



N832DS

DATE: 11/23/04

HOBBS: 25.5  
ACTT: 25.5

COMPLETED 100HR INSPECTION ON THIS DATE PER DIAMOND  
DA-40 MAINTENANCE MANUAL. TESTED ELT AS PER FAR 91.207(d).  
ELT BATTERY NEXT DUE 10/06. CHECKED NOSE WHEEL PIVOT  
FRICTION. FOUND TO BE AT 10 POUNDS. COMPLIED WITH MSB30-  
30 BY INSPECTING FUEL SELECTOR UNIVERSAL JOINTS. NO  
FAULTS FOUND. NEXT INSPECTION DUE AT HOBBS 75.5.  
REMOVED RH WING. INSTALLED SERVICEABLE FUEL PROBE P/N  
3010011-W1P. INSTALLED RH WING OPERATIONAL AND LEAK  
CHECK OF RH FUEL SYSTEM WAS FOUND SATISFACTORY.  
INSTALLED NEW P/N AV56505-2 VENT ON COPILOTS SIDE OF  
INSTRUMENT PANEL. INSTALLED NEW P/N 34-0428070-64 BULB IN  
RH NAV LIGHT. OPERATIONAL CHECK OF NAV LIGHT WAS FOUND  
SATISFACTORY. MODERN AERO W/O# 32976-1. I CERTIFY THAT  
THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN  
100HR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY  
CONDITION.

KEN R FISCHBACH A&P/IA 504925029

*Ken R Fischbach*

# ENGINEERING RECORD

2

INSPECTION, REPAIRS & REPLACEMENT  
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE  
NUMBER



MODERN AERO, INC.  
14801 PIONEER TRAIL  
EDEN PRAIRIE, MN 55347  
952-941-2595

FAA APPROVED REPAIR STATION MZER198L

N832DS

DATE: 11/23/04

HOBBS: 25.5

THIS AIRCRAFT HAS BEEN TEST FLIGHT ACCORDING TO FAR  
REQUIREMENTS 91.407

*John Tonta* 2816063 CFI MET  
11/05



MODERN AERO, INC.  
14801 PIONEER TRAIL  
EDEN PRAIRIE, MN 55347  
952-941-2595

FAA APPROVED REPAIR STATION MZER198L

N832DS

DATE: 11/24/04

HOBBS: 26.9

REMOVED RH STROBE POWER PACK P/N 01-0770062-05 S/N 04424.  
INSTALLED NEW POWER PACK P/N 01-0770062-05 S/N 04659.  
OPERATIONAL CHECK OF STROBE LIGHT WAS FOUND  
SATISFACTORY. REFERENCE MODERN AERO W/O # 33018-1

JON RUTOSKI

J A AIR CENTER DuPage Airport/West Chicago, IL, 60185 P 1  
Repair Station #NF2R029L AIRFRAME LOG  
Type DIAMONDSTR DA40 TT  
N # 832DS  
S/N 40-432 REC. HR. METER 56

#2 EXHAUST RISER CRACKED-  
REMOVED RISER P/N DA40-3 S/N 1AA52-008 AND INSTALLED NEW  
RISER DA40-3 S/N 1B066-0004 USING NEW GASKETS AND LOCK  
WASHERS. OPERATED ENGINE WITH NO DEFECTS OR LEAKS DETECTED.  
#2 AND #3 EXHAUST NUTS NEED TO BE RETORQUED BY 81.3 HRS. IN  
ACCORDANCE WITH TEXTRON LYCOMING SI 1204B.

THE AIRCRAFT, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS  
REPAIRED & INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS  
OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO  
SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS  
REPAIR STATION UNDER W.O. # 13762 DATE: 12-16-04

SIGNED: DONALD K. MORGAN *D. Morgan*  
J.A. AIR CENTER, DUPAGE AIRPORT, W. CHICAGO, IL 60185  
F.A.A. APPROVED REPAIR STATION #NF2R029L

For



DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		NOTE: USE BOTH PAGES AND
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

Type DA40  
S/N 40.432  
N# 832DS

**J.A. AIR CENTER**  
DuPage Airport • West Chicago, IL 60185  
FAA Repair Station #NF2R029L  
**AIRFRAME LOG ENTRY**

Description of work done:

Complied with GARMIN G1000  
Service Bulletin No. 0519 REV. B  
Dated 11 MAY 2005  
SYST SW. VERS. 0369.06

MAINTENANCE RELEASE  
The aircraft, airframe, engine, appliance, or component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of the repair are on file at this repair station under

WO 204952 Date 5/31/05 TT 148.6 Signature [Signature]  
Inspector (print) DAVID H KRANT

Type DA40  
S/N 40.432  
N# 832DS

**J.A. AIR CENTER**  
DuPage Airport • West Chicago, IL 60185  
FAA Repair Station #NF2R029L  
**AIRFRAME LOG ENTRY**

Description of work done:

Complied with Garmin G1000 Service Bulletin No. 0519  
Rev. B dated 11 May 2005. Software version 0369.06.

MAINTENANCE RELEASE  
The aircraft, airframe, engine, appliance, or component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of the repair are on file at this repair station under

WO 204952 Date 5-31-05 TT: 0148.6 Signature [Signature]  
Inspector (print) David H. Krant

## ENGINEERING RECORD

J A AIR CENTER DuPage Airport/WestChicago, IL. 60185 P 1

Repair Station #NF2R029L

AIRFRAME LOG

Type DIAMOND STAR 40

TT 159

N # 832DS

S/N 40-432

REC. HR. METER 159

MAIN TIE BUSS POPPING IN FLIGHT, BUSS VOLTS ARE ONLY 25.0 VOLTS AND AMP METER LOAD IS 52 AMPS WITH ALL SYSTEMS OFF- TROUBLESHOT THE ELECTRICAL SYSTEM. INSTALLED A LOANER BATTERY AND PROBLEM WAS CORRECTED. TESTED THE BATTERY AND FOUND TO HAVE A SHORTED CELL. REMOVED THE ORIGINAL BATTERY P/N R624-15M, S/N 40056711 AND INSTALLED A WARRANTY REPLACEMENT BATTERY P/N R624-15M, S/N 40080252 AND TESTED FOR PROPER OPERATION. REASSEMBLED THE AIRCRAFT.

THE AIRCRAFT, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS REPAIRED & INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER W.O. # 14102 DATE: 6-3-05

SIGNED: BRUCE P. REBECHINI

For

J.A. AIR CENTER, DUPAGE AIRPORT, W. CHICAGO, IL 60185

F.A.A. APPROVED REPAIR STATION #NF2R029L



**J.A. AIR CENTER**

DuPage Airport • West Chicago, IL 60185

FAA Repair Station #NF2R029L

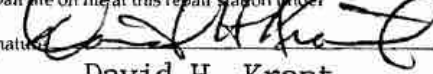
**AIRFRAME LOG ENTRY**Type DA40  
S/N 40.432  
N# 832DS

Description of work done:

Complied with Garmin G1000 Service Bulletin  
No. 0519 Rev. B dated 11 May 2005. Software  
version 0369.06.

**MAINTENANCE RELEASE**

The aircraft, airframe, engine, appliance, or component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of the repair are on file at this repair station under

WO 204952 Date 5-31-05 TT: 0148.6 Tach/Hobbs 0148.6 Signature   
Inspector (print) David H. Krant

Date: 8/09/2005; Aircraft: N832DS; Type: DIAMOND DA 40; S/N: 40.432; Hobbs: 160.4; Total Time: 160.4  
\*\*\*Airframe Work\*\*\* ID 1297

Top charge new battery P/N RG2415M, s/n 40084488 and installed in aircraft. Performed ground run and operational check of aircraft electrical and charging system, normal operation noted at this time. Replaced right distribution air vent p/n AV576505-2 in instrument panel with new. All work performed in accordance with Diamond Aircraft DA 40 Service Manual.

☐ Wisconsin Aviation - Madison  
3606 Corben Court  
Madison, WI 53704  
608-268-5003



☒ Wisconsin Aviation - Watertown  
1741 River Drive  
Watertown, WI 53094  
920-261-4567

Date: 11/11/2005, Aircraft: N832DS, Type: DIAMOND DA 40, S/N: 40.432, Hobbs: 193.3, Total Time: 193.3

\*\*\*Airframe Work\*\*\* ID 1401

Replaced turn and bank p/n 1394T100-12RZ with new. Replaced landing light p/n 01-0770346-01 with new.

Ground run for ops ck good.

Kevin Fenske

A&P/IA 2886592

*Kevin Fenske* *IA2886592*  


☐ Wisconsin Aviation - Madison  
3606 Corben Court  
Madison, WI 53704  
608-268-5003

☒ Wisconsin Aviation - Watertown  
1741 River Drive  
Watertown, WI 53094  
920-261-4567

REQUIRED FOR:

12-05-2005

Hobbs: 0219.9

Total Time: 0219.9

N832DS

Diamond DA-40

SN: 40.432

Removed electric fuel pump PN: 5100-00-9, SN: 5156. Installed new electric fuel pump PN: 5100-00-9, SN: 5950.

Ops checked and leak checked. Inspected gasculator. Replace left nav light bulb PN: T7512-24. Lubed flight controls. Serviced tires. Ops checked ELT. ELT battery due Oct 2006. Dressed leading edge of prop blades and repainted blade faces. See AD Compliance Record and Recurring Listings for complete status of airworthiness directives. See Beaver Aviation Inc, "Aircraft Inspection Report" for details of this inspection.

I certify this aircraft has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition.

Eric Nelson AP508211046IA *E Nelson*

Beaver Aviation Inc, N6469 Hwy 26, Juneau WI 53039, 920-386-2636


#

# ALTIMETER, STATIC, AND TRANPONDER CERTIFICATE

N123TV

5713Y

Wisconsin Aviation-Four Lakes, Inc.  
FAA CRS No. DBKR124D 608-268-5006

3606 Corben Ct.  
Madison, WI 53704

LICENCE  
NUMBER

Test Alt. x 1k Ft.	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
Tol. $\pm$ Ft.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
Actual $\pm$ Ft.	+17	-9	+5	+2	+11	+4	+7	+3	-7	-19	-22	-26	-31	-33	-40
Test Alt. x 1k Ft.	20	22	25	30	35	40	45	50	Case Leak	29	Hystersis Tol + 75 Ft.	ALTIMETER MAKE: United MODEL: 5934PD-3 S/N: 441210			
Tol. $\pm$ Ft.	130	140	155	180	205	230	255	260	Tol. 100 Ft	OK	50% Max				
Actual $\pm$ Ft.	-43	X	X	X	X	X	X	X	Temp C	16	40% Max				

CERTIFIED ALTIMETER PER FAR 43 APP. E. TO 20K FT.  
CERTIFIED AIRCRAFT STATIC SYSTEMS PER FAR 91.411 (a)(1).  
PERFORMED TRANPONDER TEST REQUIRED BY FAR 91.413 (a)(c) AND 91.217 (b) IN  
ACCORDANCE WITH FAR 43 APP. F.

TRANPONDER MODEL: Garmin GTX-33 S/N: 84700340

The aircraft and/or component identified hereon was repaired and inspected in accordance with the current  
maintenance rules of the Federal Aviation Regulations and is airworthy and approved for return to service.

Date: 08 Jan 2007

W.O.: 7304 Signed:

*Gar Welsch*

BLIND ENCODER

MAKE: Garmin  
MODEL: GDC 24A  
S/N: 47801698

#2 TRANPONDER

MAKE: X  
MODEL: X  
S/N: X

Date: 1/12/2007; Aircraft: N123TV; Type: DIAMOND DA 40; S/N: 40.432; Hobbs: 308.7; Total Time: 308.7;  
Engine - Type: IO-360-M1A, S/N: L-31679-51A, Time: 308.7; Prop - Type: HC-C2YR-BF, S/N: CH38378B, Time:  
308.7

\*\*\*Airframe Work\*\*\* ID 2385

Completed an Annual Inspection in accordance with the Diamond DA40 Inspection Form and Service Manual. Complied with MSB40-033 by performing complete visual inspection of engine exhaust system, with heat shields, no defects noted, next due 358.7 ACTT. Complied with MSB-40-044R1 by installation of muffler brace assembly kit # MSB-40-044-1. Replaced #3 cylinder exhaust stack riser p/n DA40-102, s/n RC0604774 with new. Replaced standby lithium emergency power battery p/n D41-2560-93-00 with new. Next due 1/09. Complied with MSB40-046 by visual and dye penetrant inspections of nose landing gear leg at nose wheel fork pivot radius, no defects noted, next due 508.7 ACTT. Inspected and tested ELT in accordance with FAR 91.207(d), no defects noted, next due 1/08. Treated aft and forward horizontal attach bracket assembly with ACF 50 corrosion inhibitor, next due 1/2009. Ground run for ops and leak ck good.

I certify that this aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

Tim McGuire

A&P473138392 IA

☐ Wisconsin Aviation - Madison  
3606 Corben Court  
Madison, WI 53704  
608-268-5003



A&P 473138392 IA

☒ Wisconsin Aviation - Watertown  
1741 River Drive  
Watertown, WI 53094  
920-261-4567

N123TV Diamond DA-40 SN: 40.432  
6-20-2008 Hobbs: 345.3 Total: 345.3

Lubricated flight controls. Serviced battery. Inspected and operational tested ELT FAR 91.207(d). Changed left main tire (072-449-0) and tube (097-500-0.) Balance tire and wheel assembly. Repacked wheel bearings. Serviced tires. See AD Compliance Record and Recurring Listings for complete status of applicable airworthiness directives. See Beaver Aviation Inc, "Aircraft Inspection Report" for details of this inspection. I certify this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

Eric Nelson AP5082110461A

Beaver Aviation Inc, N6469 Hwy 26, Juneau WI 53039, 920-386-2636

NEW BAT - 29 APRIL 2008 -

CONCORD BATTERY CO. 18 FEB 2009 RG24-15M

DATE	DAILY TOTAL		TIME SINCE MFG.	
	HRS.	MIN.	HRS.	MIN.
NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COM				
N123TV, hobbs 349.4, SB-DES-353 complied with by repair and operation test by the manufacturer. Re-				
installed governor after test completed by the manufacturer. Installed new aircraft battery.				
Bruce F Botterman A&P1698010 <i>Mace 7 Botterman</i>				

WISCONSIN AVIATION FOUR LAKES, INC.

N123TV

DESCRIPTION OF WORK DONE:

Removed, repaired and reinstalled Garmin GDC-74A p/n 011-00882-00 s/n 47801698. System ramp checks satisfactory in accordance with B-E.

END

The aircraft component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file at this agency under the following work number.

DATE: 7-7-10 HOBBS: 355.9 WO#: AV10-9731 SIGNED: *E. T. Berke*

3606 Corben Ct. - Madison, WI 53704 - CSR No. DBKR124D  
(608) 268-5006 (608) 268-5038 FAX

ALTIMETER, STATIC, AND TRANSPONDER CERTIFICATE  
N123TV PFD

Wisconsin Aviation Inc.  
FAA CRS No. DBKR124D

Madison, WI 53704

608-268-5006

Test Alt. x 1k Ft	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
Tol. ± Ft.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
Actual ± Ft.	0	0	0	0	0	0	0	0	0	+5	+5	+5	+5	+5	+5
	20	22	25	30	35	40	45	50	Case Leak	OK	Hystersis Tol + 75 Ft.		ALTIMETER MAKE: GARMIN MODEL: GDC-74A S/N: 47801698		
Tol. ± Ft.	130	140	155	180	205	230	255	260	Tol. 100 Ft	17	50% Max	0			
Actual ± Ft.	+5	X	X	X	X	X	X	X	Temp C	25	40% Max	0			

CERTIFIED STATIC PRESSURE SYSTEM PER FAR 43 APP. E (a)  
CERTIFIED ALTIMETER PER FAR 43 APP. E. (b) TO (20) THOUSAND FEET.  
CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING EQUIPMENT PER FAR 43 APP. E (c).  
COMPLIED WITH RECORDS KEEPING PER FAR 43 APP. E (d).  
CERTIFIED TRANSPONDER SYSTEM PER FAR 43 APP. F.

TRANSPONDER MAKE: GARMIN MODEL: GTX-33 S/N: 84700340

The aircraft and/or component identified hereon was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Regulations and is airworthy and approved for return to service.

Date: 7-7-10 W.O.: AV10 9731 Signed: *E. T. Berke*

BLIND ENCODER  
MAKE: SAME  
MODEL: AS  
S/N: ABOVE

#2 TRANSPONDER  
MAKE: X  
MODEL: X  
S/N: X



1. UNITED STATES		2. FAA FORM 8130-3 AIRWORTHINESS APPROVAL TAG		3. SYSTEM TRACKING REG. NO:	
4. ORGANIZATION CRS # DBKR124D Wisconsin Aviation-Four Lakes, Inc. 3606 Corben Ct., Madison, WI 53704 Phone (608) 268-5006		US Department of Transportation Federal Aviation Administration		5. WORK ORDER, CONTRACT, OR INVOICE NO: <i>9731</i>	
6. ITEM	7. DESCRIPTION	8. PART NO.	9. ELIGIBILITY*	10. QTY.	11. SERIAL/BATCH NO.
<i>02</i>	<i>GAG 74A</i>	<i>011-00882-00</i>	<i>TBD</i>	<i>01</i>	<i>47801698</i>
12. STATUS/WORK <i>Repaired</i>					
13. REMARKS <i>Performed GAG-74(x) calibration procedure. Unit meets m.P.S.</i>					
Limited life parts must normally be accompanied by maintenance history including total time/total cycles/time since new.					
<input checked="" type="checkbox"/> New <input type="checkbox"/> Newly Overhauled Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design date and airworthiness regulations. NOTE: In case of parts to be exported, the special requirements of the importing country have been met.			19. Return to Service in Accordance with FAR 43.9 o Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.		
15. Signature		16. FAA Authorization No.:		20. Authorization Signature:	
				<i>[Signature]</i>	
17. Name (typed or printed):		18. Date:		21. Certificate Number:	
				<i>DBKR124D</i>	
				22. Name (typed or printed):	
				<i>Brian Riese</i>	
				23. Date:	
				<i>7/6/10</i>	
Airworthiness Approval Tag User/Installer Responsibilities It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer 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 parts/components/assemblies from the Airworthiness Authority of the country specified in block 1. Statements in block 14 and 19 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 under/installer before the aircraft may be flown. *Optional installer must cross check eligibility with applicable technical data					

# ENGINEERING RECORD

5

INSPECTION, REPAIRS & REPLACEMENT  
ENTRIES: DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE  
NUMBER

## ALTIMETER, STATIC, AND TRANSPONDER CERTIFICATE

Wisconsin Aviation Inc.  
FAA CRS No. DBKR124D

Madison, WI 53704

608-268-5006

Test Alt. x 1k Ft	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
Tol. $\pm$ Ft.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
Actual $\pm$ Ft.	+10	-10	0	0	+10	+5	+5	0	-10	-15	-20	-20	-20	-30	-25
Test Alt. x 1k Ft	20	22	25	30	35	40	45	50	Case Leak	OK	Hysteresis Tol + 75 Ft.	ALTIMETER MAKE: UNITED MODEL: 5934PD-3 S/N: 441210			
Tol. $\pm$ Ft.	130	140	155	180	205	230	255	260	Tol. 100 Ft	17	50% Max				
Actual $\pm$ Ft.	-15	X	X	X	X	X	X	X	Temp C	25	40% Max				

CERTIFIED STATIC PRESSURE SYSTEM PER FAR 43 APP. E (a)  
CERTIFIED ALTIMETER PER FAR 43 APP. E. (b) TO (20) THOUSAND FEET.  
CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING EQUIPMENT PER FAR 43 APP. E (c).  
COMPLIED WITH RECORDS KEEPING PER FAR 43 APP. E (d).  
CERTIFIED TRANSPONDER SYSTEM PER FAR 43 APP. F.

TRANSPONDER MAKE: GARMIN MODEL: GTX-33 S/N: 84700340

The aircraft and/or component identified hereon was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Regulations and is airworthy and approved for return to service.

Date: 7-7-10 W.O.: AV10-9731

Signed: *E. T. [Signature]*

BLIND ENCODER

MAKE: GARMIN  
MODEL: GDC-74A  
S/N: 47801698

#2 TRANSPONDER

MAKE: X  
MODEL: X  
S/N: X

Date: 10/01/2010; Aircraft: N123TV; Type: DIAMOND DA 40; S/N: 40.432; Hobbs: 355.9; Total Time: 355.9;  
Engine - Type: IO-360-M1A, S/N: L-31679-51A, Time: 355.9; Prop - Type: HC-C2YR-BF, S/N: CH38378B, Time:  
355.9

\*\*\*Airframe Work\*\*\*

Completed an Annual inspection in accordance with the Diamond Aircraft DA40 Inspection Form and Service Manual. Complied with AD 09-10-04 Nose Gear inspection by visual inspection, no defects noted. AD 10-13-10 not applicable by Prop governor p/n installed is C210776 and s/n installed is 00209. Serial number not affected. Complied with MSB40-033 Exhaust System Inspection by visual inspection, no defects noted. Inspected and tested ELT in accordance with FAR 91.207(d), no defects noted, next due 8/2011. Replaced ELT battery MN1300. Next due 3/2016. Replaced standby battery p/n D41-2560-93-00 with new. Next due 8/2012. Replaced rudder cables p/n CSKIT-04 with new. Replaced Gascolator o-ring p/n ORO373 with new.

I certify that this aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

Doug Seibel

A&P389765035 IA

☐ Wisconsin Aviation - Madison  
3606 Corben Court  
Madison, WI 53704  
608-268-5003



☒ Wisconsin Aviation - Watertown  
1741 River Drive  
Watertown, WI 53094  
920-261-4567

