

AIRCRAFT 4N40-444

AIRCRAFT TECHNICAL LOGS

Section 1. AIRFRAME

AIRCRAFT

1. Nationality and Registration N597RA
2. Manufacturer's Designation DA40
3. Manufacturer's Serial Number 40.444
4. Type Approval or Specification Number A-224 / A47CE
5. Date of Manufacture 2004
6. Aircraft Inspection Cycle _____

AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		NOTE: USE BOTH PAGES AND MANY LINES AS REQUIRED FOR FORWARD
	HRS.	MIN.	HRS.	MIN.	
	0	0	0	0	AIRCRAFT SERIAL NUMBER 40444
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	



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

SERIAL NUMBER 40.444

REGISTRATION MARK N597RA

11 NOV 2004, SIN 40.444
COMPASS DEVIATION, ALL ELECTRICS ON

	FOR	N	30	60	E	120	150
STEER	360	029	060	090	120	150	
FOR	S	210	240	W	300	330	
STEER	180	210	239	268	299	328	



INDEPENDENT CHECK OF FLIGHT AND POWERPLANT CONTROLS

DATE

15 November, 2004

INSPECTOR

[Signature]
DA 011

15 NOV 2004 0 0 AIRCRAFT SERVICEABLE FOR FLIGHT

15 NOV 2004 2 6

15 NOV 2004 3 9

16 NOV 2004 3 9 AIRCRAFT SERVICEABLE FOR FLIGHT

16 NOV 2004 4 9

18 NOV 2004 4 9 ALL DISCREPANCIES RECTIFIED



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

18 November, 2004

INSPECTOR

[Signature]
DA 013

4.9

CARRIED FORWARD

ENGINEERING RECORD

DATE	SIGNATURE	LICENCE NUMBER
	<i>[Signature]</i>	DA 013



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

DATE

5 November, 2004

INSPECTOR

[Signature]
DA 013

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.



INDEPENDENT CHECK OF FLIGHT AND POWERPLANT CONTROLS

DATE

15 November, 2004

INSPECTOR

[Signature]
DA 013

15 NOV 2004 1 8

15 NOV 2004 1 8

15 NOV 2004 1 8

15 NOV 2004 1 8

15 NOV 2004 1 8

15 NOV 2004 1 8

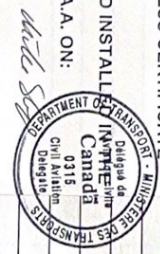


U.S. STANDARD AIRWORTHINESS CERTIFICATE ISSUED

DATE: NOV 19 2004 AND INSTALL

DATE: NOV 19 2004

NE-M100-46



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: NOVEMBER 2005

DATE

15 November, 2004

INSPECTOR

[Signature]
DA 013



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

15 November, 2004

INSPECTOR

[Signature]
DA 013

AIR TIME AND

ENGINEERING RECORD

ENGINEERING RECORD

NOTE: USE BOTH PAGES AND MANY LINES AS REQUIRED FOR RECORDING.

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



11 NOV 2004 S/N 40 444
COMPASS DEVIATION, ALL ELECTRICS ON

	N	30	60	E	120	150
FOR	360	029	060	090	120	150
STEER	S	210	240	W	300	330
	180	210	239	268	299	329

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

SERIAL NUMBER: 40.444
REGISTRATION MARK: N597RA

Diamond
INDEPENDENT CHECK OF FLIGHT AND POWERPLANT CONTROLS

DATE: 15 November, 2004
INSPECTOR: *[Signature]* DA 011

15 NOV 2004	0	0	0	0	AIRCRAFT SERVICEABLE FOR FLIGHT
15 NOV 2004	0	0	1	1	
15 NOV 2004	0	0	2	6	
15 NOV 2004	0	0	3	9	
16 NOV 2004	0	0	3	9	AIRCRAFT SERVICEABLE FOR FLIGHT
16 NOV 2004	0	0	4	9	
18 NOV 2004	0	0	4	9	ALL DISCREPANCIES RETIRED

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: 18 November, 2004
INSPECTOR: *[Signature]* DA 013

4.9
CARRIED FORWARD

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT
SIGNATURE: *[Signature]* DA 013

Diamond
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: 15 November, 2004
INSPECTOR: *[Signature]* DA 013

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: 15 November, 2004
INSPECTOR: *[Signature]* DA 013

Diamond
The ELI 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: NOVEMBER 2005
BATTERY DUE: JANUARY 2007

DATE: 15 November, 2004
INSPECTOR: *[Signature]* DA 013

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: 15 November, 2004
INSPECTOR: *[Signature]* DA 013

Diamond
U.S. STANDARD AIRWORTHINESS CERTIFICATE
ISSUED

DATE: NOV 19 2004 AND INSTALL
AIRCRAFT ON BEHALF OF THE F.A.A. ON:
DATE: NOV 19 2004
NE-MIDO-46



[Signature]
DA 013

ENGINEERING RECORD

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
	HRS.	MIN.	HRS.	MIN.
BROUGHT FORWARD			49	

NOTE: USE BOTH PAGES AND MANY LINES AS REQUIRED FOR COMMENTS. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

Diamond
 Nov 26, 2004 S/N: 40-444 Reg: N597RA
 Hobbs 7, 4 Hrs W/O RO-04-182

Following addition work carried out
 Right side rear cabin passenger air vent relocated to avoid contact with Rear of co-pilots seat.

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

DIAMOND AIRCRAFT INDUSTRIES D.O.T. APPROVAL #16139

Signature: *Kevin Connolly* Lic or Stamp: **DA RO12**

AOA Maintenance
 319 N. Crystal Lake Dr
 Orlando, FL 32803
 407-328-4436
 Friday, 7 January, 2005

N 597RA S/N 40-4444 DA 40 Tach 29.6 TT 29.8
 PERFORMED A 100 HOUR INSPECTION IN ACCORDANCE WITH DIAMOND MAINTENANCE MANUAL ADJUSTED REAR DOOR MICROSWITCH TAND TO CONTACT DOOR PIN RE ADHERED LEFT AND RIGHT WING TRAILING EDGE WEATHER STRIPPING APPROXIMATELY 3 INCHES IN. I CERTIFY THIS AIRFRAME HAS BEEN INSPECTED IAW A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AT THIS TIME
 END

Kevin Connolly
 KEVIN CONNOLLY
 ASP 2155814

3/12/2005	57	6	51	6
3/21/2005	62	8	62	8
6/3/2005	102	0	102	0

DAYTONA AIRCRAFT SERVICES, Inc.
 HOBBS 131

DATE: 7/28/05 NS97RA
 Performed G1000 system software version 0369.06 upgrade and Terrain database update to 010-00330-41 configuration IAW Garmin G1000 S.B. 0319 Rev. B. Remove defective turn coordinator m/n 13947100-12R2 s/n K04-11708 and installed new warranty upgrade replacement turn coordinator m/n 13947100-12R4 s/n F05-11674 Weight & Balance change negligible. Details on file at this Repair Station under W/O #1471.
 Joseph Fierz DBA 23
 Daytona Aircraft Services Inc. CRS DTTT022K
 561 Palm Harbor Drive, Daytona Beach FL 32114
 Tel: 386-555-2049 Fax: 386-555-6120
Joseph E. Fierz

CARRIED FORWARD

INSPECTION, REPAIRS & REPLACEMENT	SIGNATURE	LICENCE NUMBER
	<i>Kevin Connolly</i>	DA 013

Two brakes + lights. No defects noted.
 install a new unit. Test system. No defects noted.
 tires, brakes + lights. No defects noted. Replaced
 0278 on 04 44.

MAKE: Diamond
 MODEL: DA40
 REG. NO: N597RA
 WORK ORDER: 385-11-2005
 DATE: 11/18/2005
 SIGNED: *Jack W. ...*
 Premier Aircraft Service, Inc.
 5640 NW 23rd Avenue, Tampa, FL 33634
 Phone: (813) 344-2293
 DATE: 11/18/2005
 A/C No: N597RA
 HOBBS: 168.8

Airframe Entries
 CWI GARDIN 8B 0533. INSTALLED SOFTWARE UPDATE IGRF PIN 008-00169-01 VERSION 2005.00 G-1000 OP CHECK
 NOM. ... CWI ANNUAL INSPECTION IAW FAR 43 APPENDIX D AND DA-40 MM ANNUAL INSPECTION GUIDE. PERFORMED
 INSPECTION AND FUNCTIONAL CHECK OF ELT IAW FAR 81.207 ELT BATTERY DUE DATE IS MAR 2007
 REMOVED RUDDER. REPAIRED SUPERFICIAL CRACK IN FIN. PAINTED TO MATCH. CWI M8B 40-02017 FILED. SELECTOR
 VALVE INSPECTION. NO DEFECTS NOTED AT THIS TIME.
 I certify this aircraft has been inspected in accordance with an Annual Inspection and found to be in airworthy condition on this date. Approved for return to service on this date.
 Work Order: 385-11-2005
 Printed by EBS 3 (datacenterid.com)

AIR TIME AND ENGINEERING RECORD

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		SIGNATURE	LICENCE NUMBER
	HRS.	MIN.	HRS.	MIN.		

NOTE: USE BOTH PAGES AND MANY LINES AS REQUIRED FOR ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

Premier Aircraft Service, Inc.
 MAKE Diamond
 MODEL DA-40
 S/N 4044
 REG NO 597RA
 WORK ORDER 46302-2006
 46302-2006
 5540 NW 23rd Avenue Hanger 14
 Fort Lauderdale, FL 33309
 Phone: (954) 334-2393

DATE: 2/13/2006
 SIGNED: *[Signature]*
 Typed Copy: ASP 81804551
 Printed by: EBIS 3 (datacomedia.com)

LOGBOOK ENTRY: DA-40 N 597RA

THE STATIC PRESSURE SYSTEM, TRANSPONDER WITH ALTITUDE REPORTING WAS IDENTIFIED TESTED AND INSPECTED I/A/W FAR 43 APPENDIX E, PAR A & C, APPENDIX F (FAO) (413) AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THIS TEST IS ON FILE AT THIS REPAIR STATION UNDER W/O 7348 DATE MAY 23, 2006

SIGNATURE: *Mark B. Alexander* INSP: *[Signature]*
TROPIC RADIO INC. 2695 N.W. 56th ST. HANGER 53-D
FT LAUDERDALE FL 33309 FAA APPROVED REPAIR STATION # RZAR510M
FT LAUDERDALE EXECUTIVE AIRPORT * ARCHER RAMP *
 TELEPHONE # 954-776-4030
 GTX 33 S/N 047000 346
 GDC S/N 47801730

CERTIFICATION EXPIRES ON MAY 31, 2008

ALTIMETER SCALE ERROR TESTED AT TROPIC RADIO INC.
FAA APPROVED REPAIR STA. #RZAR510M

PART NO. *GDV1040* SERIAL NO. *0x527E 693* DATE *MAY 23, 2006* *01107*

TEST PT (II)	ERROR	TEST PT (III)	ERROR	TEST PT (IV)	ERROR
-1000	0	10000	3	40000	
00	0	12000	3	45000	
500	0	14000	0	50000	
1000	0	16000	0	51000	
1500	0	18000	5	52000	
2000	0	20000	415	53000	
2500	0	22000		54000	
3000	0	25000		55000	
3500	0	30000		60000	
4000	0	35000		70000	

I.A.W. FAR 43 APP. E (b)

ENGINEERING RECORD

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		SIGNATURE	LICENCE NUMBER
	HRS.	MIN.	HRS.	MIN.		

INSPECTION, REPAIRS & REPLACEMENT

Premier Aircraft Service, Inc.
 MAKE Diamond
 MODEL DA-40
 S/N 4044
 REG NO 597RA
 WORK ORDER 64005-2006
 64005-2006
 5540 NW 23rd Avenue Hanger 14
 Fort Lauderdale, FL 33309
 Phone: (954) 334-2393

DATE: 6/23/2006
 SIGNED: *[Signature]*
 Jack Wesley Dale, ASE 45997055
 Printed by: EBIS 3 (datacomedia.com)

Airframe Entries
 REMOVED: PFD PIN 01100972-00 S/N 6650187, INSTALLED AND RECONFIGURED NEW PIN 01100972-03 S/N 88900707. FUNCTIONAL TEST, ALL FUNCTIONS NORMAL.
 This aircraft/engine is approved for return to service with reference to work performed on this W/O on this date.

SIGNATURE: *[Signature]* INSP: *[Signature]*
CAPITAL AVIATION INST. & AVIONICS 10660 AVIATION LANE MANASSAS VA 20110 OVR1819K
 LOG ID 1183 23 FEBRUARY 2007 W/O# 73618 CA 11 HOBBS 3717
 N597RA S/N 4044 DIAMOND A/C INC. DA-40

Replaced altimeter due to K-CANOPY article removed EIT batteries, cleaned package, replace altimeter lettering, altimeter EIT back in aircraft. Combined with EIT system test/inspection EIT on 01/11/2007 on AC EIT S/N ACR-01 S/N 030553. Battery expiration date 05/2011. Removed Garmin altimeter due to K-CANOPY article removed EIT batteries, cleaned package, replaced altimeter lettering, altimeter EIT back in aircraft. Combined with EIT system test/inspection EIT on 01/11/2007 on AC EIT S/N ACR-01 S/N 030553. Battery expiration date 05/2011. Removed altimeter due to K-CANOPY article removed EIT batteries, cleaned package, replaced altimeter lettering, altimeter EIT back in aircraft. Combined with EIT system test/inspection EIT on 01/11/2007 on AC EIT S/N ACR-01 S/N 030553. Battery expiration date 05/2011.

SIGNED: *[Signature]* Jack Wesley Dale, ASE 45997055
 Printed by: EBIS 3 (datacomedia.com)

ASD

ENGINEERING RECORD

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMMENTS. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
	HRS.	MIN.	HRS.	MIN.			

PHOENIX AVIATION SERVICES
 HANGER 37, 5075 AIRPORT RD
 MIDDLELAND, VA 22728
 Email: phoenixaviation@earthlink.net
 ph & fax: 540-788-1749

Replaced left and right main tires with new Good Year FS II 156 15600-6PP. P/N: 156E66B1. Cleaned and packed wheel bearings. Replaced LH brake linings with new Cleveland P/N: 066-106.

Date: 13 Apr 2006
 Tach Time:
 A.C.T.I.:
 Reg. # NS97RA

White Hawk Aviation
 12517 Beverly Ford Road
 Brandy Station, Va. 22714
 Phone: 540-272-8400
 Fax: 540-272-8411

NS97RA Diamond DA40 Serial number: 40444
 Date: 21 May 2007 Tach: 280.6

Inspected and lubed controls for freedom of movement, security, and travel limits. Inspected all lights both interior and exterior. Inspected wheels tires and brakes. Performed retraction and emergency gear extension tests. Topped off brake reservoir with MIL-5606. Inspected induction filter. Inspected seats, seat rails, rollers, pins, and seat belts. Checked corrosion of battery cables. I certify I have inspected the **ELT SYSTEM** in this aircraft, found it meets the requirements of **FAR 91.407 (d), Battery cables Mar 2014, AD's searched through 2007-09, C/N: AD2002-26401**. I certify this aircraft has been inspected **LAW ANNUAL INSPECTION** as per Annual Inspection check list and was determined to be in an **AIRWORTHY** condition.

Ken Woodside AWP31222551A

5083 Airport Road
 Midland, VA 22728
 (540) 788-9380

July 17, 2007 Reg # NS97RA Serial # 40 444

Changed nose tire and tubes. Inspected nose wheel yolk. Packed nose wheel bearings. Serviced air in main cabin.

Lighting repairs
 Ronald L. Galenwood

A&P 307445086 IA

SKYWORLD AVIATION
 NS97RA Hobbs 402.0

Removed and replaced Alternator, p/n ALU8521, removed and replaced Voltage Regulator, p/n VR2000-28-1, recharged battery and removed and reinstalled Alternate Air Scoop. Run and ops check of all systems good.
 John Hester 263884733 IA

[Signature]

INSPECTION, REPAIRS & REPLACEMENT

August 17, 2007 Tail # NS97RA Hobbs 407.6

Performed 50 hour firewall inspection in accordance with Diamond checklist. Changed oil and filter with CH48110-1 (filter) and 8 qts. 15W 50. Cleaned and gapped spark plugs and reinstalled with new spark plug gaskets.

John Hester
 A & P/IA # 263884733

MAKE Diamond
 MODEL DA-40
 SN 40 444
 REG NO NS97RA
 WORK ORDER 1505-99-2507

Premier Aircraft Service, Inc.
 5540 NW 23rd Avenue, Hangar 14
 Fort Lauderdale, FL 33309
 Phone: (954) 594-2890

DATE: 10/12/2007
 AC TSN: 337.4
 TACH: 337.4

Airframe Entries
 ADJUSTED ALTERNATE AIR CONTROL CABLE AS REQUIRED OBS CHECKED GOOD. REPLACED NOSE GEAR SHOCK DISCS L&W DA40 M OPS CHECKED GOOD. C/W AD 2007-1-1-21 BY INSPECTING FUEL SEAT BELT UNIVERSAL SHIRT NO DEFECTS NOTED NEXT INSPECTION DUE 1337.4 TACH TIME. COMPLETED WITH AD 2007-7-7-21 TACH 402.06 OF N/G LEG. NO DISCREPANCIES NOTED L&W THIS S/B AND DA-40 MM NEXT DUE @ 537.4 HOUR TACH TIME.

This aircraft/engine is approved for return to service with reference to work performed on this W/O on this date. THIS RELEASE IS IN NO WAY CERTIFIES FUTURE AIRWORTHINESS.

DATE: 10/12/2007 SIGNED: *[Signature]* Work Order: 1505-09-2007
 Adam Aital, AWP-2781974 Printed by Ebsa 3 (datcommedia.com)

MAKE Diamond
 MODEL DA-40
 SN 40 444
 REG NO NS97RA
 WORK ORDER 1505-12-2007

Premier Aircraft Service, Inc.
 5540 NW 23rd Avenue, Hangar 14
 Fort Lauderdale, FL 33309
 Phone: (954) 594-2890

DATE: 12/29/2007
 AC TSN: 333.1
 TACH: 333.1

Airframe Entries
 C/W ANNUAL INSPECTION L&W FAR 43 APPENDIX D AND DA40 MM ANNUAL INSPECTION GUIDE PERFORMED INSPECTION AND FUNCTIONAL CHECK OF ELT L&W FAR 91.207 DESP DATE 022009. REPLACED LH AND RH BRAKE LININGS WITH P/N 066-14100 L&W DA40 M.M. C/W S/B 0738 REV B BY INSPECTION OF T/S COMPONENTS NO DEFECTS NOTED NEXT INSPECTION DUE IN 1000 HOURS. C/W AD 2007-11-21 BY INSPECTION OF FUEL SELECTOR SHIRT NO DEFECTS NOTED NEXT INSPECTION DUE IN 1000 HOURS. C/W AD 2007-7-7-20 BY INSPECTION OF NOSE LANDING GEAR NO DEFECTS NOTED NEXT INSPECTION DUE IN 200 HOURS.

I certify this aircraft has been inspected in accordance with an Annual inspection and found to be in airworthy condition on this date. Approved for return to service on this date. THIS RELEASE IS IN NO WAY CERTIFIES FUTURE AIRWORTHINESS.

DATE: 12/29/2007 SIGNED: *[Signature]* Work Order: 1505-12-2007
 Jack Wesley Dale, IA, 459867385 Printed by Ebsa 3 (datcommedia.com)

5/29/08 N597RA HOBBS 541.7

The biennial check required by FAR Part 91.411 on the static pressure system, altimeter instrument and automatic pressure altitude reporting system have been performed and found to comply with FAR Part 43 appendix E. All systems have been tested to 20,000 feet. The biennial check required by FAR Part 91.413 on the ATC transponder has been performed and found to comply with FAR Part 43 appendix F. #1 Altimeter: GDC74A, P/N 011-00882-00, S/N 47802006, #2 Altimeter: United P/N 5934FD-3, S/N 440219, TYP: GTX33, P/N 011-00779-00, S/N 84700604.

Records are on file at this agency under WOD# 50853.

Signed Douglas L Burn for HS PZ4R458M

Aircraft Specialists, Inc
Sellersburg, Indiana



(800) 366-9723
(812) 246-4696

MODEL: DA40
S/N: 40444
REG. N°: N597RA

CFM
CORPORATE TRUST MANAGEMENT
625 Fitzhugh Boulevard
Smyrna, TN 37167
615.534.4600

Aircraft

DATE: 11-12
TAT: 4381
TACH: 4331
HOBBS: 5491

Inspections: -Complied with a 100 Hr, 200Hr, and Annual inspection in accordance with Diamond DA40 AMM 5-20.

AD's Accomplished: -AD 2007-11-21 Abnormal variations in fuel selector valve N/A by Aircraft SN.

-Complied with AD 2007-17-06 Nose landing Gear inspection. No defects found. Next inspection due Tach: 635.8. AD's researched through 11-1-208

Maintenance Accomplished: -Adjusted rear passenger door microswitch and resealed Left rear vent as required. Op Check Good.

-Removed and replaced alternate emergency battery PN D41-2560-93-00. Op Check Good.

-Removed and replaced emergency battery PN D41-2560-93-00. Op Check Good.

All work accomplished in accordance with manufacturer's AMM. I certify that this Aircraft has been inspected in accordance with a 100 Hr, 200Hr and Annual Inspection, was found to be in airworthy condition, and is approved for return to service.

Signed: Thomas R Ladd A&P 40896600 SQ ITA
Technician: Thomas R Ladd A&P 40896600 SQ ITA

N597RA SN 40,444
3-26-09 Tach 552.6 Total Time 552.6
C-W Annual ELT inspection per FAR 91.207D and installed 8ea
New D cell batteries. Installed new Main Landing Gear tires
PN 156E61-3 L/H SN 83020355 and R/H SN 82051827. Installed
New L/H Main Tire Tube.
I certify this Aircraft has been inspected in accordance with a
100 hour inspection and is approved for return to service.
Michael A Noblin A&P2268659
MidSouth Aviation

ENTRIES OF

N597RA SN 40,444
5-27-09 Tach 647.1 Total Time 647.1

C-W AD 2007-17-06 NLG leg pivot point inspection due again in 200 hours or 12 months. Found AD 2009-07-14 wing main spar cap To not apply due to SN. Tighten instrument panel light switch knob. Reguled coplots mike button plug.

I certify this Aircraft has been inspected in accordance with an Annual inspection and is approved for return to service.

Michael A Noblin A&P22686591&A
MidSouth Aviation

N597RA SN 40,444
7-23-09 Tach 748.7 Total Time 748.7

Installed brake linings PN 066-14100. Installed Alternator PN ALU-8521R SN 1012003 with new mount PN 07A19474, Strut PN 74323, lock plate PN 73383 and bolts PN AN6-17. Installed Starter PN 149-24LS SN F4L-040914. Installed starter ring gear PN 72566. Installed alternate air cable PN DAI-9076-00-04.

I certify this aircraft has been inspected in accordance with a 100 Hour inspection and is approved for return to service.

Michael A Noblin A&P2268659
MidSouth Aviation

N597RA
4-1-09 Tach 556.1
Removed L/H main gear tire PN 156E61-3 SN 83020355 and tube.
Installed new L/H main gear tire PN 156E61-3 SN 83020314 and
Tube 15X6.0
Michael A Noblin A&P2268659
MidSouth Aviation

N597RA
4-22-09 Tach 600.9
Installed customer furnished MLG tires L/H SN B3E4407 and R/H
SN B3E43407. Tubes PN 092-315-0. Installed customer furnished
Brake linings 4ea PN 066-14100
Michael A Noblin A&P2268659
MidSouth Aviation

AIR TIME AND

ENGINEERING RECORD

ENGINEERING RECORD

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

INSPECTION, REPAIRS & REPLACEMENT

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

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

NS97RA SN 40,444
 8-11-09 Tach 781.5
 Installed customer furnished boost pump PN 51100-00-9
 SN 4428A. See Dukes Inc. FAA form 8130-3 for overhaul details.
 Michael A Noblin *M A Noblin*
 MidSouth Aviation A&P2268659

NS97RA SN 40,444
 9-22-09 Tach 848.1 Total Time 848.1
 C-W AD 2009-10-04 IAW SB 40-0463 NLG leg pivot point
 Inspection due again in 12 months or 200 hours. Installed customer
 Furnished M/G tires.
 I certify this Aircraft has been inspected in accordance with a 100
 Hour inspection and is approved for return to service.
 Michael A Noblin *M A Noblin* A&P2268659
 MidSouth Aviation

NS97RA SN 40,444
 11-13-09 Tach 949.4 Total Time 949.4
 Installed new brake linings PN 066-14100
 I certify this Aircraft has been inspected in accordance with a 100
 Hour inspection and is approved for return to service.
 Michael A Noblin *M A Noblin* A&P2268659
 MidSouth Aviation

11/06/2009 1199 2 0937 1 Replaced alternate Fuel Pump with

Overhauled Fuel boost Pump PN 51100-00-9 S/N 5218A

Tach Howard

3399946

PROAIR TIME AND ENGINEERING RECORD

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED.
	HRS.	MIN.	HRS.	MIN.	

MS97RA SN 40,444
 3-15-2010 Tach 1049.2 Total Time 1049.2
 C-W AD 2009-10-04 NLG pivot point inspection due again in 12 Months or 200 hours. C-W Annual ELT inspection per FAR 91.207D
 And installed new D-Cell batteries. C-W 5 year 3000 hour rudder Cable replacement by installing kit PN CSKIT-04 SN CSO701066. C-W 1000 hour essential Buss inspection. C-W 1000 hour bonding System and static discharging system inspection. Replaced flap up Light bulb. Repaired bonding strap for L/H outboard flap. Installed New NLG damper rod PN D41-3223-20-33B and elastomers PN D44-9032-23-01 and PN WZ-8000-32X40. Reposition door warning Light switch striker plate. Aircraft requires test flight before being Returned to service. Test flight C-W by *[Signature]* 3123007
 Page 1

I certify this aircraft has been inspected in accordance with an Annual inspection and is approved for return to service.
 Michael A Noblin *[Signature]* A&P22786591&A
 MidSouth Aviation

NS97RA SN 40,444
 6-23-2010 HM 1151.5 Total Time 1151.5
 Installed new L/H strobe light PN 02-0250276-00. Installed customer Furnished L/H MLD tire. Repaired grounding strap for L/H back seat. Installed new brake linings PN 066-14100. Replace haffle screw at #3 Cylinder.
 I certify this Aircraft has been inspected in accordance with a 100 hour inspection and is approved for return to service.
 Michael A Noblin *[Signature]* A&P2268659
 MidSouth Aviation

NS97RA SN 40,444
 2-25-2010 HM 1152.5
 Installed new customer furnished voltage regulator PN VR2000-28-1 SN G083845.
 Michael A Noblin *[Signature]* A&P2268659
 MidSouth Aviation

CARRIED FORWARD

ENGINEERING RECORD

NET SN# 40,444 Altimeter/Static System Certification
 Merlin's Avionics Service
 307 Roberta Drive
 Hendersonville, Tennessee 37075
 FAA CRS#Z6VRS86Y MAF Form #4

Work Order No. 2362 Acft. Reg. No. N597RA
 Acft Type Diamond Altimeter Position #1
 Altimeter P/N# GD V1040 S/N# 5226 698
 Date 10-4-10 Signed *[Signature]*

Altitude	Reading	Tot Altitude	Reading	Tot	Erection	Tot	Press	Diff (Tol. 25 Ft.)
12,000	11720	90	50K	250			28.10	-1727
10,000	9960	80	45,000	150			28.50	-1340
8,000	7940	60	40,000	120			29.00	-863
6,000	5940	40	35,000	205			29.50	-392
4,000	3900	35	30,000	180			30.00	0
2,000	1900	30	25,000	155			30.50	531
1,000	900	25	20,000	130			30.90	893
0	0	20	16,000	110			30.99	974
-1,000	-1000	20	14,000	100				
-2,000	-2000	20	12,000	80				

Hysteresis: 1st Test Point @ 50% of Max. Alt. (Tol. 75 Ft.) *715*
 2nd Test Point @ 40% of Max. Alt. (Tol. 75 Ft.) *710*

This Altimeter/Static System meets the requirements of FAR 91.411 and FAR Part 43, Appendix E.

Altimeter/Static System Certification
 Merlin's Avionics Service
 Tel: (615) 305-1186
 307 Roberta Drive
 Hendersonville, Tennessee 37075
 FAA CRS#Z6VRS86Y MAF Form #4

Work Order No. 2362 Acft. Reg. No. N597RA
 Acft Type Diamond Altimeter Position #2
 Altimeter P/N# 59344D-3 S/N# 440219
 Date 10-4-10 Signed *[Signature]*

Altitude	Reading	Tot Altitude	Reading	Tot	Erection	Tot	Press	Diff (Tol. 25 Ft.)
12,000	12200	90	50K	250			28.10	-1727
10,000	10200	80	45,000	150			28.50	-1340
8,000	8200	60	40,000	120			29.00	-863
6,000	6200	40	35,000	205			29.50	-392
4,000	4200	35	30,000	180			30.00	0
2,000	2200	30	25,000	155			30.50	531
1,000	1200	25	20,000	130			30.90	893
0	0	20	16,000	110			30.99	974
-1,000	-1000	20	14,000	100				
-2,000	-2000	20	12,000	80				

Hysteresis: 1st Test Point @ 50% of Max. Alt. (Tol. 75 Ft.) *715*
 2nd Test Point @ 40% of Max. Alt. (Tol. 75 Ft.) *710*

This Altimeter/Static System meets the requirements of FAR 91.411 and FAR Part 43, Appendix E.

Transponder Certification
 Merlin's Avionics Service Tel: (615) 305-1186
 307 Roberta Drive Hendersonville, Tennessee 37075
 FAA CRS #Z6VRS86Y MAF Form #3

Work Order No. 2362 Acft. Reg. No. N597RA
 Aircraft Type Diamond Transponder Position #1
 Txpond P/N# G1000 (GX33) S/N# 847003346
 Check Box if Mode S (X)

I certify the ATC Transponder tests and inspections required by FAR 91.413 were performed this date and found to comply with Part 43, Appendix F. Details of this inspection are on file at this repair station.
 Date 10-4-10
 Signed *[Signature]*

AIR TIME AND

ENGINEERING RECORD

ENGINEERING RECORD
AS MANY LINES AS REQUIRED FOR

N597RA SN 40.444
10-11-2010 Tach 1249.9 Total Time 1249.9
10-11-2010 NIG pivot point inspection due again in 12
C-W AD 2009-10-04 NIG steering stop PN
Months or 200 hours. Installed new NIG tire.
D41-3223-00-51. Installed customer furnished R/H MLG tire.
I certify this aircraft has been inspected in accordance with a
100 hour inspection and is approved for return to service.
A&P2268659
Michael A Noblin
MidSouth Aviation

February 14, 2011
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 1337.9

Install new brake linkings. Clean and inspect wheel bearings
and races. Grease wheel bearings IAW Diamond Service
Manual. R&R MLG tires and tubes w/new 15X6.00-6-6-ply,
and NIG w/new 5.00X5-6ply. Adjust nose wheel caster IAW
Diamond Service Manual. Install wheel pants.

Tim Goddard 2802055AP

February 18, 2011
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 1344.9

Complied with initial task in AD 2010-25-01, Pass
Retaining Bracket, by installing TR-MAM40-428
Completion of AD 2010-25-01, installation of rta
must be completed by 06/11/2011.

Tim Goddard 2802055AP

March 28, 2011
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 1374.4

Complied with final task in AD 2010-25-01, Passenger Door
Retaining Bracket, by installing Diamond Aircraft Kit MSB-
40-070-KIT, IAW MSB 40-070/1. This constitutes
terminating action for this AD on this aircraft.-END-

Tim Goddard 2802055AP

March 31, 2011
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 1374.4

Checked ELT IAW FAR 91.207(d), battery replacement
March 2016. Install new rear position light, right side P/
A50828. Replaced damaged Aux Audio Input Jack. Clean
avionics cooling fan filter. R&R Induction air filter with re
FR-08504. I certify that this aircraft has been inspected in
Diamond Maintenance Manual, and FAR43, Appendix D,
hour inspection.-END-

Tim Goddard 2802055AP

CARRIED FORWARD

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

Diamond DA40-180 N597RA S/N: 40-444
TAF: 1374.4 Tach: 1374.4

Aircraft inspected in accordance with Diamond Maintenance Manual and FAR 43, Appendix D,
Complied with AD 2010-25-01 in accordance with para (f)(1) and (2). Reviewed AD's thru 2010-25-01
for applicability and compliance. CW ELT ops check IAW 91.207(d). I certify this aircraft has been
inspected in accordance with an annual inspection and found to be in an airworthy condition.

Gene Daub
AP21022451A

April 25, 2011
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 1400

I certify that this airframe has been inspected IAW Diamond
Aircraft Maintenance Manual, and FAR 43 Appendix (D) for a 100
hour inspection.-END-

Tim Goddard 2802055AP

June 21, 2011
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 1500

Inspected NIG, IAW AD 2007-17-06 and found no cracks. Next due
@Annual inspection or 1700hrs which occurs first.
I certify that this airframe has been inspected IAW Diamond
Aircraft Maintenance Manual, and FAR 43 Appendix (D) for a 100
hour inspection.-END-

Tim Goddard 2802055AP

FAA - PMA

This tag certifies that Sky-Tec Model No. 149-24LS
Serial No. F4L-501011 was produced by Sky-Tec under the
authority of FAA PMA No. PQ0852SW Supplement No. 1 per
CFR14 Part 21 in accordance with Sky-Tec's FAA-Approved Fabrication
Inspection System (CFR14 Part 21 §21.303) and conforms to the relevant
FAA-approved drawings. This part has been determined to be airworthy.
For installation eligibility see www.skytecair.com/eligibility.htm

Starter Installed on N 597RA by Tim Goddard
(Aircraft) (Mechanic)

6-21-11
(Date of Installation)

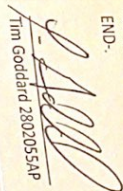
2802055AP
(A&P No.)

N597RA

JULY 25, 2011
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 1559.3

SN: 40,444
TTSN: 1559.3

C/W ACS SERVICE BULLETIN 5892-01 by installing Ignition Switch Kit P/N A-3650-2, and installing Diode Kit P/N 16050-2. Tested switch for proper operation. Next inspection due TACH 3559.3-
END.

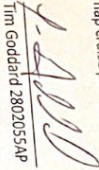

Tim Goddard 2802055AP

N597RA

AUGUST 5, 2011
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 1580.0

SN: 40,444
TTSN: 1580.0

R&R port-side strobe flash tube with new Whelen P/N A610. R&R flap cruise position indicator lamp P/N T4.6 24-20 -END.


Tim Goddard 2802055AP

N597RA

August 18, 2011
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 1600

SN: 40,444
TTSN: 1600

I certify that this airframe has been inspected IAW Diamond Aircraft Maintenance Manual, and FAR 43 Appendix (D) for a 100 hour inspection-END.


Tim Goddard 2802055AP

ENGINEERING RECORD

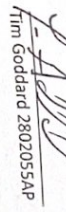
SEE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR ENTRIES. DRAW

October 1, 2011

AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 1650.0

SN: 40,444
TTSN: 1650.0

Completed with SB 0919 Rev. A by installing G1000 System Software Version 0321.22 IAW STC SA01444WI-D-6. Performed System Testing & Checkout IAW SEC. 3, in the G1000 Field Update Instructions PN: 19030544-03.-END.


Tim Goddard 2802055AP

N597RA

November 25, 2011
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 1700

SN: 40,444
TTSN: 1700

Inspected NLG, IAW AD 2009-10-04 and found no cracks. Next due @Annual inspection or 1900hrs which occurs first. R&R MLG tires with new Goodyear Flight special 15-6-00X6. I certify that this airframe has been inspected IAW Diamond Aircraft Maintenance Manual, and FAR 43 Appendix (D) for a 100 hour inspection-END.

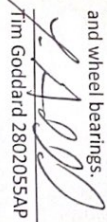

Tim Goddard 2802055AP

N597RA

February 20, 2012
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 1750.0

SN: 40,444
TTE: 1750.0

R&R brake rotors with new Cleveland P/N: 24400 rotors. Replace brake linings, grease wheel bearings, service tire pressure. Clean, inspect and grease nose gear fork assembly and wheel bearings.


Tim Goddard 2802055AP

CARRIED FORWARD

AIR TIME AND

ENGINEERING RECORD

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD
	HRS.	MIN.	HRS.	MIN.	
February 28, 2012					N597RA AIRFRAME LOGBOOK ENTRY SN: 40,444 TTE: 1763.6 TACH: 1763.6
Diamond DA40-180					

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD
	HRS.	MIN.	HRS.	MIN.	
May 13, 2012					N597RA AIRFRAME LOGBOOK ENTRY SN: 40,444 TTE: 1800 TACH: 1800
Diamond DA40-180					

BRF
FO

Replace NLG UPPER BUSHINGS P/N: PA25215P11, and replace Belleville washers P/N: din2093a-25x12.2x1.5.
Adjust tension-HAW DMM.
[Signature]
Tim Goddard 2802055AP

Inspected NLG, IAW AD 2009-10-04 and found no cracks. Next due @Annual inspection or 1900hrs which occurs first. I certify that this airframe has been inspected IAW Diamond Aircraft Maintenance Manual and FAR 43 Appendix (D) for a 100 hour inspection-END.
[Signature]
Tim Goddard 2802055AP

March 21, 2012
AIRFRAME LOGBOOK ENTRY
N597RA
DIAMOND DA40-180
SN: 40,444
TTSN: 1764.0
TACH: 1764.0

Inspected NLG, IAW AD 2009-10-04 and found no cracks. Next due @Annual inspection or 1964.0 hrs which occurs first. Installed new tail skid plate. I certify that this airframe has been inspected IAW Diamond Aircraft Maintenance Manual, and FAR 43 Appendix (D) for a 100 hour inspection-END.
[Signature]
Tim Goddard 2802055AP

Diamond DA40-180 N597RA S/N: 40-444 TACH: 1764.0 TAF: 1764.0 22 MAR 2012

Inspected aircraft in accordance with FAR 43, Appendix D. Reviewed AD's for applicability and compliance thru AD 2011-21-10. I certify this aircraft has been inspected in accordance with an annual inspection and found to be in an airworthy condition.

[Signature]
Gene Davis
AP21022451A

D & D AVIONICS SERVICES, INC

Date: 10/25/12 A/C: DA-70 S/N: 40-444 N597RA
A/C TT: 1883.4 WO # 36112

FAR 91.411
I certify that the altimeter and altitude reporting equipment tests and inspections required by FAR 91.411 have been performed as per FAR 43 (b) (3). The static system was tested on 10/23/12 as per FAR 43 Appendix E (a). The automatic pressure reporting system was tested on 10/23/12.

#1 ALT PIN: 6DYL010 S/N: Q57E108 tested to 20,000 ft.
#2 ALT PIN: 5134D-3 S/N: 44A519 tested to 20,000 ft.

FAR 91.413
I certify that the ATC transponder test and inspection required by FAR 91.413 Appendix F have been performed on 10/23/12. The integrated system test and inspection was performed on 10/23/12.

#1 Transponder Model: GTX-33 S/N: 847000316
#2 Transponder Model: N/A S/N: N/A

I have found this aircraft airworthy with respect to the work performed and approved for return to service.

Technician
FAA Repair Station # DADR959X

October 25, 2012 N597RA
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180 SN: 40,444
TACH: 1883.4 TTAF: 1883.4

Complied with Garmin G1000 ICA 190-00492-03 Rev. A by replacing 5each lightning protection fuses. Next due Oct 2014. Replaced emergency battery w/new P/N: D41-2560-93-00 battery pack. Next due Oct 2014.-END-

[Signature]
Tim Goddard 2802055AP

ENGINEERING RECORD

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
	HRS.	MIN.	HRS.	MIN.
NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.				

November 20, 2012
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 1900

Inspected NILG, IAW AD 2009-10-04 and found no cracks. Next due @Annual inspection or 2000hrs which occurs first. Cleaned, inspected and packed wheel bearings. I certify that this airframe has been inspected IAW Diamond Aircraft Maintenance Manual, and FAR 43 Appendix (D) for a 100 hour inspection.-END-
 Tim Goddard 2802055AP

March 4, 2013
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 1943.9

Inspected NILG, IAW AD 2009-10-04 and found no cracks. Next due @Annual inspection or 2143.9.0 hrs which occurs first. Tested ELT IAW FAR 91.207 (d), battery replacement due 03/16. I certify that this airframe has been inspected IAW FAR 43 Appendix (D) for a 100 hour inspection.-END-
 Tim Goddard 2802055AP

Diamond DA40-180 N597RA S/N: 40-444 TACH: 1943.9 TAF: 1943.9 March 5, 2013

Inspected aircraft in accordance with FAR 43, Appendix D. Reviewed AD's for applicability and compliance thru AD 2011-21-10. I certify this aircraft has been inspected in accordance with an annual inspection and found to be in an airworthy condition.

Gene Daub
 Gene Daub
 AP21022451A

CARRIED FORWARD	
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ENGINEERING RECORD

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
	HRS.	MIN.	HRS.	MIN.
NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.				

MAY 28, 2013
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 2000

Inspected NILG, IAW AD 2009-10-04 and found no cracks. Next due @Annual inspection or 2000hrs which occurs first. Cleaned, inspected and packed wheel bearings. Performed essential bus inspection. I certify that this airframe has been inspected IAW Diamond Aircraft Maintenance Manual, and FAR 43 Appendix (D) for a 100 hour inspection.-END-
 Tim Goddard 2802055AP

June 14, 2013
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 2006.8

Remove and replaced turn coordinator with new MidContinent P/N: 1394T100-12RB, S/N: A05-11139. Performed system operational check. Return to service.-END-
 Tim Goddard 2802055AP

June 20, 2013
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 2008.1

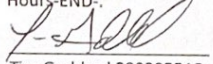
Remove and replaced turn coordinator with new MidContinent P/N: 1394T100-12RB, S/N: F13-10588. Performed system operational check. Return to service.-END-
 Tim Goddard 2802055AP


MAY 28, 2013
AIRFRAME LOGBOOK ENTRY
DIAMOND DA40-180
TACH: 2000

Performed 1000 hour reoccurring Static Discharge and Bonding Inspection IAW Diamond Airworthiness Limitations. Next Due Tach Time 3000. -END-
Tim Goddard
 Tim Goddard 2802055AP

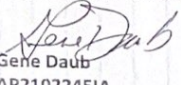
CARRIED FORWARD	
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DATE	DAILY TOTAL		TOTAL AIR TIME SINCE		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.
	HRS.	MIN.	HRS.	MIN.	
July 8, 2013					
AIRFRAME LOGBOOK ENTRY					
DIAMOND DA40-180 SN: 40.444					
TACH: 2022.1 TTSN:2022.1					
Remove and replace roll servo P/N: 065-00179-0300, S/N: 9601 with overhauled unit S/N: 8018 their W/O # 0218289. Removed and Replaced KAP140 computer with loaner from Mid Continent while repairs are made. Flight test performed and autopilot system checked for proper operation.-END.					
Tim Goddard 2802055AP					
July 22, 2013					
AIRFRAME LOGBOOK ENTRY					
DIAMOND DA40-180 SN: 40.444					
TACH: 2025.1 TTSN:2025.1					
Removed and replaced loaner KAP140 autopilot computer with repaired unit S/N: 7904. Unit was repaired by Mid Continent under W/O # 02202141 by replacing adjustment pot. Flight test performed and autopilot system checked for proper operation.-END.					
Tim Goddard 2802055AP					

July 30, 2013 N597RA
AIRFRAME LOGBOOK ENTRY
 DIAMOND DA40-180 SN: 40.444
 TACH: 2029.0 TTSN:2029.0
 Accomplished 2000 Hour/Major Structural Inspection IAW DA 40 Maintenance Manual. No discrepancies found. Next due at 4000 Hours-END.

 Tim Goddard 2802055AP

NOV 1, 2013 N597RA
AIRFRAME LOGBOOK ENTRY
 DIAMOND DA40-180 SN: 40.444
 TACH: 2100 TTSN:2100
 Inspected NIG, IAW AD 2009-10-04 and found no cracks. Next due @Annual inspection or 2000hrs which occurs first. Cleaned, inspected and packed wheel bearings. Rotated main tires. I certify that this airframe has been inspected IAW Diamond Aircraft Maintenance Manual, and FAR 43 Appendix (D) for a 100 hour inspection.-END.

 Tim Goddard 2802055AP

DATE	DIAGNOSIS	REPAIRS	REPLACEMENT	SIGNATURE	LICENCE NUMBER
NOV 12, 2013					
AIRFRAME LOGBOOK ENTRY					
DIAMOND DA40-180 SN: 40.444					
TACH: 2104.5 TTSN:2104.5					
Remove and replace aircraft battery with new Concorde RG24-15M IAW manufactures Maintenance Manual Doc # 5-0171, Rev. M. Replace flap "cruise" indicator light bulb. -END.					
Tim Goddard 2802055AP					
January 6, 2014					
AIRFRAME LOGBOOK ENTRY					
DIAMOND DA40-180 SN: 40.444					
TACH: 2150.0 TT: 2150.0					
R&R right main tube with new GY 15X600-6.					
Tim Goddard 2802055AP					
March 31, 2014					
AIRFRAME LOGBOOK ENTRY					
DIAMOND DA40-180 SN: 40.444					
TACH: 2167.4 TTSN:2167.4					
Inspected NIG, IAW AD 2009-10-04 and found no cracks. Next due @Annual inspection or 2367.4 hrs which occurs first. Tested ELT IAW FAR 91.207 (d), battery replacement due 03/16. I certify that this airframe has been inspected IAW FAR 43 Appendix (D) for a 100 hour inspection.- <u>END</u> .					
Tim Goddard 2802055AP					

Diamond DA40-180 N597RA S/N: 40-444 TACH: 2167.4 TTAF: 2167.4 April 1, 2014
 Inspected aircraft. Ref: FAR 43, Appendix D. Reviewed AD's for applicability and compliance thru AD 2013-24-14. I certify this aircraft has been inspected in accordance with an annual inspection and found to be in an airworthy condition.

 Gene Daub
 AP21022451A

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR CONT.
	HRS.	MIN.	HRS.	MIN.	

May 16, 2014
AIRFRAME LOGBOOK ENTRY
 SN: 40,444
 DIAMOND DA40-180
 TTSN: 2200
 TACH: 2200

Inspected NLG, IAW AD 2009-10-04 and found no cracks. Next due @Annual inspection or 2400 hrs which occurs first. Cleaned, inspected and packed wheel bearings. R&R NLG pivot new brake linings, and seals in brake callipers. R&R NLG pivot bushings. I certify that this airframe has been inspected IAW Diamond Aircraft Maintenance Manual, and FAR 43 Appendix (D) for a 100 hour inspection-**END**-
 Tim Goddard 2802055AP

MAY 30, 2014
AIRFRAME LOGBOOK ENTRY
 SN: 40,444
 DIAMOND DA40-180

AD 2009-05-05 Not applicable as Avidyne PFD not installed.
 AD 2008-02-06 Not applicable as GSM-85 SERVOS not installed
 Tim Goddard 2802055AP

July 9, 2014
AIRFRAME LOGBOOK ENTRY
 SN: 40,444
 DIAMOND DA40-180
 TACH: 2253.0

Remove and replace co-pilot rudder pedal adjustment pull cable with new P/N 20-2700-2100-**END**-
 Tim Goddard 2802055AP

CARRIED FORWARD	
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August 21, 2014
AIRFRAME LOGBOOK ENTRY
 SN: 40,444
 DIAMOND DA40-180
 TACH: 2269.1

Remove and replace right strobe flash tube. Check for proper operation of ray/strobe-**END**-
 Tim Goddard 2802055AP

October 9, 2014
AIRFRAME LOGBOOK ENTRY
 SN: 40,444
 DIAMOND DA40-180
 TACH: 2300

Inspected NLG, IAW AD 2009-10-04 and found no cracks. Next due @Annual inspection or 2400 hrs which occurs first. Cleaned, inspected and packed wheel bearings. R&R Instrument back-up battery PN: D50-2560-91-00. Complied with Garmin G1000 ICA 190-00492-03 Rev. A by replacing 5 each lightning protection fuses. Next due Oct. 2016. I certify that this airframe has been inspected IAW Diamond Aircraft Maintenance Manual, and FAR 43 Appendix (D) for a 100 hour inspection-**END**-
 Tim Goddard 2802055AP

August 21, 2014
AIRFRAME LOGBOOK ENTRY
 SN: 40,444
 DIAMOND DA40-180
 TACH: 2269.1

Remove and replace right strobe flash tube. Check for proper operation of ray/strobe-**END**-
 Tim Goddard 2802055AP

October 9, 2014
AIRFRAME LOGBOOK ENTRY
 SN: 40,444
 DIAMOND DA40-180
 TACH: 2300

Inspected NLG, IAW AD 2009-10-04 and found no cracks. Next due @Annual inspection or 2400 hrs which occurs first. Cleaned, inspected and packed wheel bearings. R&R Instrument back-up battery PN: D50-2560-91-00. Complied with Garmin G1000 ICA 190-00492-03 Rev. A by replacing 5 each lightning protection fuses. Next due Oct. 2016. I certify that this airframe has been inspected IAW Diamond Aircraft Maintenance Manual, and FAR 43 Appendix (D) for a 100 hour inspection-**END**-
 Tim Goddard 2802055AP

NO TIME COLUMNS	SIGNATURE	LICENCE NUMBER
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D & D AVIONICS SERVICES, INC.
 Date: 10/16/14 AC: DA40 S/N: 40,444 N: 5978A
 A/C TT: 2304.0 WO #: 36818
 FAR 91.411
 I certify that the altimeter and altitude reporting equipment tests and inspections required by FAR 91.411 have been performed as per FAR 43 (b) (c). The static system was tested on 10/16/14 as per FAR 43 Appendix E (a). The automatic pressure reporting system was tested on 10/16/14
 #1 ALT PN: 5934703 S/N: 440518 tested to 25,000 ft.
 #2 ALT PN: GDU 1641 S/N: 0X527E61 tested to 25,000 ft.
 FAR 91.413
 I certify that the ATC transponder test and inspection required by FAR 91.413 Appendix F have been performed on 10/16/14. The integrated system test and inspection was performed on 10/16/14
 #1 Transponder Model: GTX 33 S/N: 817000341
 #2 Transponder Model: N/A S/N: N/A
 I have found this aircraft airworthy with respect to the work performed and approved for return to service
 Technician
 FAA Repair Station # DXDR395X

AIR TIME AND LOGS

ENGINEERING RECORD

DATE	DAILY TOTAL		TOTAL AIR TIME		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMMENTS
	HRS.	MIN.	HRS.	MIN.	

April 1, 2015
AIRFRAME LOGBOOK ENTRY
 DIAMOND DA40-180
 TACH: 2400

Inspected NLG, IAW AD 2009-10-04 and found no cracks. Next due @Annual inspection or 2500 hrs which occurs first. Cleaned, inspected and packed wheel bearings and replaced main tires and tubes. I certify that this airframe has been inspected IAW Diamond Aircraft Maintenance Manual, and FAR 43 Appendix (D) for a 100 hour inspection-END.
Tim Goddard
 Tim Goddard 2802055AP

June 27, 2015
AIRFRAME LOGBOOK ENTRY
 DIAMOND DA40-180
 TACH: 2419.8

Inspected NLG, IAW AD 2009-10-04 and found no cracks. Next due @Annual inspection or 2619.8 hrs which occurs first. CW AD 2014-13-08 IAW Diamond MSB 40-074 no further action required. Tested ELT IAW FAR 91.207 (d), battery replacement due 03/16. I certify that this airframe has been inspected IAW FAR 43 Appendix (D) for a 100 hour inspection-END.
Tim Goddard
 Tim Goddard 2802055AP

Diamond DA40-180 N597RA S/N: 40-444 TACH: 2419.8 TAF: 2419.8 June 29, 2015

Inspected aircraft. Ref: FAR 43, Appendix D. Reviewed AD's for applicability and compliance thru AD 2014-13-08, AD 2009-10-04 CW by inspection; AD 2014-13-08 CW by installation of spar beef up IAW DAI MSB 40-074. I certify this aircraft has been inspected in accordance with an annual inspection and found to be in an airworthy condition.

Gene Daub
 AP21022451A
 September 8, 2015
ENGINE LOGBOOK ENTRY
 DIAMOND DA40-180
 TACH: 2467.0
 LYCOMING IO-360-M1A

Remove and replaced GMU-44 with overhauled unit P/N: 011-00870-00, S/N: 475056536 provided by Garmin under W/O# 3974388. Checked operation. Aircraft okay to return to service.-END.
Gene Daub
 Tim Goddard 2802055AP

March 29, 2016
AIRFRAME LOGBOOK ENTRY
 DIAMOND DA40-180
 TACH: 2519.9

Removed wheelen WING-TIP STROBE/POSITION lights MN: A600 and POWER SUPPLIES P/N: 01-0770062-05. Installed wheelen Replacement LED Orion 600 Wingtip POSITION/STROBE LIGHTS same fit, form, and function IAW wheelen Engineering Company Inc. Form No. 14661A (042513) and 14 CFR part 43, IAW AC 20-41A this installation is a minor alteration. Change in W&B negligible.-END.
Tim Goddard
 Tim Goddard 2802055AP

April 17, 2016
AIRFRAME LOGBOOK ENTRY
 DIAMOND DA40-180
 TACH: 2525.9

Remove and replace ELT Batteries with new Duracell batteries. Replacement due on or before December 2021.-END.
Tim Goddard
 Tim Goddard 2802055AP

June 13, 2016
AIRFRAME LOGBOOK ENTRY
 DIAMOND DA40-180
 TACH: 2537.6

Inspected NLG, IAW AD 2009-10-04 and found no cracks. Next due @Annual inspection or 2737.6 hrs which occurs first. Repaired broken bonding strap on rudder and RT flap bell crank. R&R flap position light. Removed GDU1040 S/N 86501019 for repair by GARMIN. Tested ELT IAW FAR 91.207 (d), battery replacement due 12/2021. I certify that this airframe has been inspected IAW FAR 43 Appendix (D) for a 100 hour inspection.-END.
Tim Goddard
 Tim Goddard 2802055AP

Diamond DA40-180 N597RA S/N: 40-444 TACH: 2537.6 TAF: 2537.6 June 14, 2016

Inspected aircraft. Ref: FAR 43, Appendix D. Reviewed AD's for applicability and compliance thru AD 2014-13-08, AD 2009-10-04 CW by inspection; I certify this aircraft has been inspected in accordance with an annual inspection and found to be in an airworthy condition.

Gene Daub
 AP21022451A

AIR TIME AND

ENGINEERING RECORD

LOWE AVIATION SERVICES, LLC 2178 FLIGHTLINE DR MACON, GA 31216 ETER6990
 LOG ID# 195 23-June-2016 WOH 13241 REF# 1324
 N597RA SN:40-444 DIAMOND DA-40

T/5 AND RENDLO G1000 SYSTEM SW FOR DIAMOND DA40. SW. VERS. 321.22.
 MAINTENANCE RELEASE / RETURN TO SERVICE CS# ETER6990
 THE AIRCRAFT ENGINE, COMPONENT, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED IN
 ACCORDANCE WITH CURRENT FEDERAL AVIATION AGENCY REGULATIONS AND IS HEREBY APPROVED FOR RETURN
 TO SERVICE

October 31, 2016
 AIRFRAME LOGBOOK ENTRY
 DIAMOND DA40-180 SN: 40,444
 TACH: 2547.3 TTSN:2547.3

Remove engine to CW AD 2004-10-14, Lycoming MSB 475C and
 MSB533A resulting from a Prop-Strike. Re-installed engine on
 airframe IAW Diamond MM. -END.
 Tim Goddard 2802055AP

D & D AVIONICS SERVICES

Date: 10/31/17 A/C DA-40-180, S/N:40,444 N597RA A/C TT 25478.9, WO # 36948

FAR 91.411
 I certify that the altimeter and altitude reporting equipment tests and inspections
 required by FAR 91.411 have been performed as per FAR 43.10 (G). The static
 system was tested on 10/27/17 as per FAR 43 Appendix E (6). The automatic
 pressure reporting system was tested on 10/27/17.
 #1 ALT P/N GDV1040 S/N OX627E698 tested to 20,000 ft.
 #2 ALT P/N 5934PD-3 S/N 440999 tested to 20,000 ft.

FAR 91.413
 I certify that the ATC transponder test and inspection required by FAR 91.413
 Appendix F have been performed on 10/27/17. The integrated system test and
 inspection was performed on 10/27/17.
 #1 Transponder Model GTX-33 S/N: 847000346
 I have found this aircraft airworthy with respect to the work performed and approved
 for return to service.

Technician
 FAA Repair Station # DXDR595X

TIME COLUMNS	SIGNATURE	LICENSE NUMBER

DATE 10/23/2016

REQUIRED FOR COMPLETION

ENT

NOVEMBER 22, 2017
 AIRFRAME LOGBOOK ENTRY
 DIAMOND DA40-180 SN: 40,444
 TACH: 2548.8 TTSN:2548.8

R&R NLG strut with new part # DA4-3223-10-00_2-MOD. SN:
 CS0711195-10000(1) terminating AD 2009-10-04. Tested ELT IAW
 FAR 91.207 (d), battery replacement due 12/2021. I certify that
 this airframe has been inspected IAW FAR 43 Appendix (D) for a
 100 hour inspection - END.
 Tim Goddard 2802055AP

Inspected aircraft. Ref: FAR 43, Appendix D. Reviewed AD's for applicability and compliance thru
 AD 2014-13-08. AD 2009-10-04 terminated by NLG strut replacement. See log entry 11/22/2017. I
 certify this aircraft has been inspected in accordance with an annual inspection and found to be in an
 airworthy condition.
 Gene Daub
 AP21022451A

December 3, 2017
 AIRFRAME LOGBOOK ENTRY
 DIAMOND DA40-180 SN: 40,444
 TACH: 2549.0 TTSN:2549.0

Remove and replace GRS77 with overhauled unit P/N: 011-00868-
 00. SN: 47402206 provided by Lowe Aviation Services WOH 2562-
 MCN. Remove and Replace Battery with new Concorde P/N: RG24-
 11M. SN: 40881661 IAW CMM 24-30-71 Rev. P. -END.
 Tim Goddard 2802055AP

LOWE AVIATION SERVICES, LLC 2178 FLIGHTLINE DR MACON, GA 31216 ETER6990
 LOG ID# 1721 04-December-2017 WOH 2579 HOBBS 3168.4
 N597RA SN:40,444 DIAMOND DA 40

REMOVED TOP QUAD MAGNETORESISTIVE. P/N:011-00870-00, SN:47505636 AND INSTALLED OVERHAULED EXCHANGE
 QUAD. P/N:011-00870-00, SN:47507708, TARGET LOADED QUAD SOFTWARE (7.01) V321.22, SYSTEM RAMP
 CHECKED OPERATIONAL. WORK DONE IAW G1000 PM 190-00907-00 REV E DATED APRIL 30TH 2011.
 MAINTENANCE RELEASE / RETURN TO SERVICE CS# ETER6990
 THE AIRCRAFT ENGINE, COMPONENT, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED IN
 ACCORDANCE WITH CURRENT FEDERAL AVIATION AGENCY REGULATIONS AND IS HEREBY APPROVED FOR RETURN
 TO SERVICE

DATE 12/14/17
 S/N 2802055AP

TIME COLUMNS	SIGNATURE	LICENSE NUMBER

CARRIED FORWARD

ENGINEERING RECORD

ENGINEERING RECORD

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE		ENGINEERING RECORD
	HRS.	MIN.	HRS.	MIN.	
					NOTE: USE BOTH PAGES AND ANY LINES AS REQUIRED FOR CONTINUED ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.



Bring your way every day since 1957
Aircraft Logbook Entry

Date: 5-8-2018
TSMOH:
Aircraft: NS97RA
Cycle:
SN: 40444
Tach: 2601.84

Replaced the alternate air cable with a new unit p/n DA1-9076-00-04.

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A&P32964741A

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Aircraft Logbook Entry

Date: 11-14-2018
TSMOH:
Aircraft: NS97RA
TTAF: 2689.9
SN:
Tach: 2669.9

Annual inspection completed this date. Serviced the brake reservoir. Replaced the heater seat hose with new. Adjusted magneto timing to proper spec. Tightened hose connection to the left brake. Retorqued the nose landing gear fork to proper spec. Replaced the nose tire with a new unit. Inspected ELT in accordance with FAR91.207D. Replaced the right brake pads with new p/n 066-14100. Replaced the emergency bus battery with new p/n D60-2560-91-00. Complied with 1000 hour essential bus inspection. AD's checked thru CD2018-22. Complied with AD2015-19-07 by inspection of the fuel injection lines. I certify that this aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

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A&P32964741A

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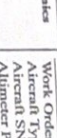
Southern Sky Maintenance & Avionics
634 N Airport Rd - 7551
Murphysboro, IL 62966
www.SouthernSkyMaintenance.com
FAA Repair Station 445R0277

Altitude	Reps/hrs	TOL	Erection			Press	DIFR. (Tol 25 Ft)
			1K	2K	3K		
1000	1000	100	28.10	-1.72	0	-1727	
500	500	100	28.50	-1.30	0	-1340	
1000	1000	110	29.00	-0.82	0	-853	
1500	1500	120	29.50	-0.30	0	-362	
2000	2000	130	29.92	0	0	0	
2500	2500	140	30.50	0.30	0	310	
3000	3000	150	30.99	0.74	0	744	
3500	3500	160	30.99	0.74	0	744	
4000	4000	170	30.99	0.74	0	744	
4500	4500	180	30.99	0.74	0	744	
5000	5000	190	30.99	0.74	0	744	
5500	5500	200	30.99	0.74	0	744	
6000	6000	210	30.99	0.74	0	744	
6500	6500	220	30.99	0.74	0	744	
7000	7000	230	30.99	0.74	0	744	
7500	7500	240	30.99	0.74	0	744	
8000	8000	250	30.99	0.74	0	744	
8500	8500	260	30.99	0.74	0	744	
9000	9000	270	30.99	0.74	0	744	
9500	9500	280	30.99	0.74	0	744	
10000	10000	290	30.99	0.74	0	744	

Altitude Repeats Tol Erection Tol Press DIFR. (Tol 25 Ft)
1000 1000 100 28.10 -1.72 0 -1727
500 500 100 28.50 -1.30 0 -1340
1000 1000 110 29.00 -0.82 0 -853
1500 1500 120 29.50 -0.30 0 -362
2000 2000 130 29.92 0 0 0
2500 2500 140 30.50 0.30 0 310
3000 3000 150 30.99 0.74 0 744
3500 3500 160 30.99 0.74 0 744
4000 4000 170 30.99 0.74 0 744
4500 4500 180 30.99 0.74 0 744
5000 5000 190 30.99 0.74 0 744
5500 5500 200 30.99 0.74 0 744
6000 6000 210 30.99 0.74 0 744
6500 6500 220 30.99 0.74 0 744
7000 7000 230 30.99 0.74 0 744
7500 7500 240 30.99 0.74 0 744
8000 8000 250 30.99 0.74 0 744
8500 8500 260 30.99 0.74 0 744
9000 9000 270 30.99 0.74 0 744
9500 9500 280 30.99 0.74 0 744
10000 10000 290 30.99 0.74 0 744

Hysteresis: 1st Test Point @ 50% of Max Alt (Tol 75 Ft) N/A
2nd Test Point @ 40% of Max Alt (Tol 75 Ft) N/A
After Effect (Tol 30 Ft) N/A
This Altimeter / Static System meets the requirements of FAR91.411 and FAR Part 43, Appendix E

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE		ENGINEERING RECORD
	HRS.	MIN.	HRS.	MIN.	
					NOTE: USE BOTH PAGES AND ANY LINES AS REQUIRED FOR CONTINUED ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.



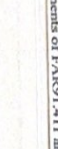
Bring your way every day since 1957
Aircraft Logbook Entry

Date: 11/8/19
TSMOH:
Aircraft: Diamond
TTAF: 597.84
SN:
Tach:

Removed a Garmin GTX33 transponder P/N 011-00779-00 S/N 84700604 and a GA55 antenna P/N 011-01033-00 S/N 875003440. Installed a Garmin GTX345R transponder P/N 011-03300-30 S/N 3E-H420455 and a GA37 WAAS antenna P/N 013-00245-00 S/N 19233. All work was accomplished in accordance with installation instructions and STC's SA01714W1 & SA01695SE. Filed FAA form 337 this date. Aircraft weight and balance and equipment list has been revised. This ADS-B OUT system was shown to meet the equipment performance requirements of 14 CFR 91.1, 91.227.

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A&P32964741A

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Aircraft Logbook Entry

Date: 11/8/19
TSMOH:
Aircraft: Diamond
TTAF: 597.84
SN:
Tach:

Removed a Garmin GTX33 transponder P/N 011-00779-00 S/N 84700604 and a GA55 antenna P/N 011-01033-00 S/N 875003440. Installed a Garmin GTX345R transponder P/N 011-03300-30 S/N 3E-H420455 and a GA37 WAAS antenna P/N 013-00245-00 S/N 19233. All work was accomplished in accordance with installation instructions and STC's SA01714W1 & SA01695SE. Filed FAA form 337 this date. Aircraft weight and balance and equipment list has been revised. This ADS-B OUT system was shown to meet the equipment performance requirements of 14 CFR 91.1, 91.227.

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FAA Repair Station 445R0277

Altitude	Reps/hrs	TOL	Erection			Press	DIFR. (Tol 25 Ft)
			1K	2K	3K		
1000	1000	100	28.10	-1.72	0	-1727	
500	500	100	28.50	-1.30	0	-1340	
1000	1000	110	29.00	-0.82	0	-853	
1500	1500	120	29.50	-0.30	0	-362	
2000	2000	130	29.92	0	0	0	
2500	2500	140	30.50	0.30	0	310	
3000	3000	150	30.99	0.74	0	744	
3500	3500	160	30.99	0.74	0	744	
4000	4000	170	30.99	0.74	0	744	
4500	4500	180	30.99	0.74	0	744	
5000	5000	190	30.99	0.74	0	744	
5500	5500	200	30.99	0.74	0	744	
6000	6000	210	30.99	0.74	0	744	
6500	6500	220	30.99	0.74	0	744	
7000	7000	230	30.99	0.74	0	744	
7500	7500	240	30.99	0.74	0	744	
8000	8000	250	30.99	0.74	0	744	
8500	8500	260	30.99	0.74	0	744	
9000	9000	270	30.99	0.74	0	744	
9500	9500	280	30.99	0.74	0	744	
10000	10000	290	30.99	0.74	0	744	

Altitude Repeats Tol Erection Tol Press DIFR. (Tol 25 Ft)
1000 1000 100 28.10 -1.72 0 -1727
500 500 100 28.50 -1.30 0 -1340
1000 1000 110 29.00 -0.82 0 -853
1500 1500 120 29.50 -0.30 0 -362
2000 2000 130 29.92 0 0 0
2500 2500 140 30.50 0.30 0 310
3000 3000 150 30.99 0.74 0 744
3500 3500 160 30.99 0.74 0 744
4000 4000 170 30.99 0.74 0 744
4500 4500 180 30.99 0.74 0 744
5000 5000 190 30.99 0.74 0 744
5500 5500 200 30.99 0.74 0 744
6000 6000 210 30.99 0.74 0 744
6500 6500 220 30.99 0.74 0 744
7000 7000 230 30.99 0.74 0 744
7500 7500 240 30.99 0.74 0 744
8000 8000 250 30.99 0.74 0 744
8500 8500 260 30.99 0.74 0 744
9000 9000 270 30.99 0.74 0 744
9500 9500 280 30.99 0.74 0 744
10000 10000 290 30.99 0.74 0 744

Hysteresis: 1st Test Point @ 50% of Max Alt (Tol 75 Ft) -10 Ft
2nd Test Point @ 40% of Max Alt (Tol 75 Ft) -30 Ft
After Effect (Tol 30 Ft) -10 Ft
This Altimeter / Static System meets the requirements of FAR91.411 and FAR Part 43, Appendix E

The aircraft and/or appliance identified above was repaired and/or inspected in accordance with current FAA regulations and is approved for return to service for the work performed. Pertinent details of this repair are on file at this Repair Station under Work Order: 19-464
TECHNICIAN: Michael Lewis CRS #PGR082L for Ron Collins Aviation Electronics 2158 St Rt 136 W Henderson, KY 42420. Phone 270-827-1151

ENGINEERING RECORD

ENGINEERING RECORD

DATE	DAILY TOTAL HRS.	TOTAL AIR TIME SINCE MFG.	NOTE: USE ONLY PAGES AND MANY LINES AS REQUIRED FOR COMPLIANCE

Transponder Certification
 Form 41.1
 Southern Sky Maintenance & Avionics
 634 N Airport Rd Memphis, TN 38126
 FAA Repair Station #4530227P

Work Order # 1232102 Aircraft Registration # N5377RA
 Aircraft Type DA40-180 Transponder Position FUEL
 Transponder P/N: 211-03303-40 Serial Number: 3E1426455
 Check Box If Model S

I certify the ATC Transponder tests and inspections required by FAR91.413 were performed this date and found to comply with Part 43, Appendix K. Details of this inspection are on file at this repair station.

Date: 12-16-2021
 Signature: [Signature]

Altimeter / Static System Certification
 Form 41.2
 Southern Sky Maintenance & Avionics
 634 N Airport Rd Memphis, TN 38126
 FAA Repair Station #4530227P

Work Order # 1232102
 Aircraft Type DA40-180 Altitude Reg. N5377RA
 Altitude SN: 40744 Altimeter Position ALT
 Altimeter P/N: 50011426 Manufacturer SNJ LTD
 Date: 12-16-2021 Signature: [Signature]
 SN: OX527E 298

Altitude - Reading - Tol	Altitude - Reading - Tol	Pressure - Tol	Diff. Tol
2000 - 17400	14000	28.10	-172.5
500 - 5750	13750	28.10	-172.5
1000 - 6500	13500	29.00	-134.0
1500 - 7250	13250	29.50	-95.0
2000 - 8000	13000	30.00	-56.0
2500 - 8750	12750	30.50	-17.0
3000 - 9500	12500	31.00	22.0
3500 - 10250	12250	31.50	81.0
4000 - 11000	12000	32.00	140.0
4500 - 11750	11750	32.50	199.0
5000 - 12500	11500	33.00	258.0

Case Leak (PerM Tol. 100Ft) 0.74

Hysteresis: 1st Test Point @ 50% of Max Alt (Tol 75 Ft) NA
 2nd Test Point @ 40% of Max Alt (Tol 75 Ft) NA
 This Altimeter / Static System meets the requirements of FAR91.411 and FAR Part 43, Appendix E.

Altimeter / Static System Certification
 Form 41.2
 Southern Sky Maintenance & Avionics
 634 N Airport Rd Memphis, TN 38126
 FAA Repair Station #4530227P

Work Order # 1232102
 Aircraft Type DA40-180 Altitude Reg. N5377RA
 Altitude SN: 40744 Altimeter Position ALT
 Altimeter P/N: 50011426 Manufacturer SNJ LTD
 Date: 12-16-2021 Signature: [Signature]
 SN: OX527E 298

Altitude - Reading - Tol	Altitude - Reading - Tol	Pressure - Tol	Diff. Tol
2000 - 17400	14000	28.10	-172.5
500 - 5750	13750	28.10	-172.5
1000 - 6500	13500	29.00	-134.0
1500 - 7250	13250	29.50	-95.0
2000 - 8000	13000	30.00	-56.0
2500 - 8750	12750	30.50	-17.0
3000 - 9500	12500	31.00	22.0
3500 - 10250	12250	31.50	81.0
4000 - 11000	12000	32.00	140.0
4500 - 11750	11750	32.50	199.0
5000 - 12500	11500	33.00	258.0

Case Leak (PerM Tol. 100ft) 0.74

Hysteresis: 1st Test Point @ 50% of Max Alt (Tol 75 Ft) NA
 2nd Test Point @ 40% of Max Alt (Tol 75 Ft) NA
 This Altimeter / Static System meets the requirements of FAR91.411 and FAR Part 43, Appendix E.

Altimeter / Static System Certification
 Form 41.2
 Southern Sky Maintenance & Avionics
 634 N Airport Rd Memphis, TN 38126
 FAA Repair Station #4530227P

Work Order # 1232102
 Aircraft Type DA40-180 Altitude Reg. N5377RA
 Altitude SN: 40744 Altimeter Position ALT
 Altimeter P/N: 50011426 Manufacturer SNJ LTD
 Date: 12-16-2021 Signature: [Signature]
 SN: OX527E 298

Don Davis Aviation, Inc. - 2154 Hwy 136 West - Henderson, KY 42420 - Telephone 270 826 6000 - Fax 270 826 6040

Going your way every day since 1957
 Aircraft Logbook Entry
 Aircraft: N597FA SN: 40 444
 Cycle: SN: 3195 7

Date: 12-16-2021
 TSMOH: Repair defect in bonding paste around the lower rudder mounting area. Retimed the magnetos to spec. Replaced mixture cable with new p/n N/A 10-0866. Operational test good.

CHARTER - AIRCRAFT MANAGEMENT - FULL SERVICE PRO - MAINTENANCE
 A&P3296474/A



Date: 12-12-2022 Aircraft: N597FA SN: 40 444
 TSMOH: TTAF: 3294.3 Tech: 3294.3

Annual inspection completed this date. Replaced both main tires and tubes with new p/n 150E66B1. Complied with Garmin G1000 ICA requirements. Replaced lightning protection fuses with new p/n 031303.2HXP. Replaced attitude indicator emergency battery with new p/n DA4-2560-91-00. Battery good till 1.2-2024. Replaced flap up indicator bulbs with new p/n 14.6 24-20. Removed both magnetos and replaced points with new p/n M3081 and pin M3637. Retimed mags internally and to the engine. Repaired lower right engine baffling. Replaced right and left wing flap control rod bonding wire with a fabricated unit. Inspected the ELT in accordance with FAR91.207D. Battery good till 3-2029. AD's checked thru CD2022-25. Complied with AD2015-19-07 by inspection of the fuel injection lines. I certify that this aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

CHARTER - AIRCRAFT MANAGEMENT - FULL SERVICE PRO - MAINTENANCE
 A&P3296474/A
 Don Davis Aviation, Inc. - 2154 Hwy 136 West - Henderson, KY 42420 - Telephone 270 826 6000 - Fax 270 826 6040

CARRIED FORWARD

