

AIRCRAFT TECHNICAL LOGS

Section 1. AIRFRAME

| CALIBRATION CARD ALTIMETER | | | | |
|-------------------------------|------------------------------|-------------------|------------------------------|-------------|
| P/N: | 5934PD-3 | C/N: | A.130 | S/N: 462828 |
| Standard Alt (Ft) | Alt Reading (Ft) @ Room Temp | Standard Alt (Ft) | Alt Reading (Ft) @ Room Temp | |
| -1,000 | -10 | 14,000 | -30 | |
| 0 | 0 | 16,000 | -40 | |
| 500 | 0 | 18,000 | -40 | |
| 1,000 | +10 | 20,000 | -20 | |
| 1,500 | +5 | 22,000 | | |
| 2,000 | +25 | 25,000 | | |
| 3,000 | +15 | 30,000 | | |
| 4,000 | +15 | 35,000 | | |
| 6,000 | +10 | 40,000 | | |
| 8,000 | -5 | 45,000 | | |
| 10,000 | -5 | 50,000 | | |
| 12,000 | -25 | | | |

Date: 6-5-07

Tested By:

Inspected By:

FORM QA-A5 (B)

UNITED INSTRUMENTS, INC.

AIRCRAFT

- Nationality and Registration
- Manufacturer's Designation
- Manufacturer's Serial Number
- Type Approval or Specification Number
- Date of Manufacture
- Aircraft Inspection Cycle

N654MS

DA 40

40.842

A-224/A47CE

2007

AIR TIME AND

| DATE | DAILY TOTAL | | TOTAL AIR TIME SINCE MFG. | | ENGINEERING RECORD <u>NOTE:</u> USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE |
|-----------------|-------------|------|---------------------------|------|--|
| | HRS. | MIN. | HRS. | MIN. | |
| BROUGHT FORWARD | 0 | 0 | 0 | 0 | AIRCRAFT NEW WITH MT-PROPELLER ENTWICKLUNG GmbH |
| | | | | | SA06-52, GARMIN G1000 INTEGRATED AVIONICS SYSTEM |
| | | | | | GFC 700 AUTOMATIC FLIGHT CONTROL SYSTEM INSTALLED |
| | | | | | SYSTEM (TAS) INSTALLED AS PER FAA STC NO. SA02266NY, |
| | | | | | AS PER FAA STC NO. SA03281AT, AMSAFE INFLATABLE |



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

SERIAL NUMBER

40.842

REGISTRATION MARK

N654MS

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

DATE _____

INSPECTOR

10 September, 2007



INDEPENDENT CHECK OF FLIGHT AND POWERPLANT CONTROLS

DATE _____




10 September, 2007



| | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|
| FOR | N | 30 | 60 | E | 120 | 150 |
| STEER | 359 | 029 | 057 | 089 | 120 | 150 |
| FOR | S | 210 | 240 | W | 300 | 330 |
| STEER | 179 | 209 | 240 | 270 | 300 | 330 |

[illegible]

ENGINEERING RECORD

| INSPECTION, REPAIRS & REPLACEMENT | | SIGNATURE | LICENCE NUMBER |
|---|--|---|----------------|
| ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | | | |
| MODEL No. MTV-12-B/183-596 INSTALLED AS PER TCCA STC No. | | | |
| INSTALLED AS PER FAA STC No SA01254WI AMEND. 1, GARMIN | | | |
| AS PER FAA STC No. SA01389WI, RYAN 9900BK TRAFFIC ADVISORY | | | |
| POWER FLOW SYSTEMS INC. TUNED EXHAUST SYSTEM INSTALLED | | | |
| RESTRAINT SYSTEM INSTALLED AS PER FAA STC No. SA01918LA → | |  | DA Q 42 |
|  <p>I certify that the Static Pressure system has been inspected and tested in accordance with Standard 571, Appendix B of the Airworthiness Manual, and F.A.R. 91:411</p> | | | |
| DATE | INSPECTOR | | |
| 10 September, 2007 |  DA Q 42 | | |

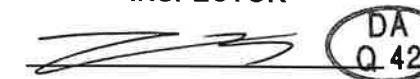


I certify that the Static Pressure system has been inspected and tested in accordance with Standard 571, Appendix B of the Airworthiness Manual, and F.A.R. 91:411

DATE _____

INSPECTOR

10 September, 2007



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

ANNUAL INSPECTION DUE: SEPTEMBER 2008

BATTERY DUE: NOVEMBER 2009

DATE _____

INSPECTOR

10 September, 2007



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

10 September, 2007

[illegible]


[illegible]

| INSPECTION, REPAIRS & REPLACEMENT | | | | SIGNATURE | LICENCE NUMBER |
|--|--|-------------|-------------------|-------------|---|
| ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | | | | | <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> DA Q 42 </div> |
| <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> </div> <div> <p style="margin: 0;">U.S. Standard Airworthiness Certificate, issued:</p> <p>(Date) <u>SEP 28 2007</u>, has been installed in the aircraft on behalf of NE-MIDO-46 on:</p> <p>(Date) <u>SEP 28 2007</u></p> <p>(Print) <u>R. Salton</u> (Signature) </p> </div> <div style="text-align: center;"> </div> </div> | | | | | |
| | <i>N Number</i> | <i>Date</i> | <i>TACH/HOBBS</i> | <i>AFTT</i> | |
| | 654MS | 10/19/2007 | 22.7 | 22.7 | |
| | AF Entry | | | | |
| | Performed 25 hour inspection on this aircraft by complying with 100 hour inspection items in accordance with Diamond Aircraft DA 40 AMM chapter 05-20-00. Checked all controls for proper rigging and lubrication. Checked all structural points, inspected all hoses, lines and wiring. Checked tires, wheels and brakes for condition. Replaced instrument air filters as required. Checked and serviced all fluid levels. Checked MFG SB's and applicable AD's for compliance to date. All work performed in accordance with Diamond Aircraft maintenance manual and standard practice as listed in FAR part 43 to return this aircraft to service in airworthy condition. Refer to WO# G01197 on file at Dillon's Aviation, Inc. | | | | |
| | Ladd J Maxson, Jr A&P3064381 | | | | |
| | 12/21/2007 N654MS s/n 40.842 Tach:96.7 TTAF:96.7 1. Jack aircraft, remove LMG tire and wheel assembly. Disassemble wheel, remove, clean and inspect wheel bearings. Repack wheel bearings with Mobil 28 grease. Install new tire and tube. Set tire pressure to 36 psi. Reinstall tire and wheel assembly, reinstall wheel fairing. I certify that the above captioned maintenance was performed in accordance with all applicable manufacturers' maintenance manuals, and other approved or acceptable data, as appropriate. | | | | |
| | Geoffrey E. Peterson, A&P 3236901 | | | | |

AIR TIME AND

ENGINEERING RECORD

3

| DATE | DAILY TOTAL | | TOTAL AIR TIME SINCE MFG. | | ENGINEERING RECORD NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | SIGNATURE | LICENCE NUMBER |
|---|-------------|-------------|---------------------------|------|--|-----------|----------------|
| | HRS. | MIN. | HRS. | MIN. | | | |
| BROUGHT FORWARD | | | | | | | |
| N Number | Date | TACH/HOBBS | AFTT | | | | |
| N654MS | 1/25/2008 | 121.2/164.3 | 121.2 | | | | |
| AF Entry Performed 100 hour inspection on this aircraft in accordance with FAR 43 appendix D. Checked all controls for proper rigging and lubricated. Checked all cables for proper tension, checked all structural points, inspected all hoses, lines and wiring. Repacked all wheel bearings, checked tires, wheels and brakes for condition. Inspected ELT in accordance with FAR 91.207(d), battery replacement date 11/09. Replaced instrument air filters as required, checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked MFG SB's to date. Checked applicable AD's for compliance to date. All work performed in accordance with Diamond service manual 6.02.01 latest revision and standard practice as listed in FAR part 43 to return this aircraft to service in airworthy condition. Refer to WO#G01269 on file at Dillon's Aviation, Inc. C/W AD 2007-17-06 per MSB40-046/1 Par f1(i) next due 01-09 or 321.2 whichever occurs later. Dwight Sexton For Dillon's Aviation, Inc. A&P2802476 | | | | | | | |
|  DOMINION AVIATION Date: 3/05/2008; Aircraft: 654MS; Type: DIAMOND CA-40; S/N: 40.842; Hobbs: 227.30; Tach: 171.10; Engine - Type: , S/N: , Time: 0.00; Prop - Type: , S/N: , Time: 0.00 **ENGINE** Complied with the oil and filter change. Serviced with 8 quarts of Shell 80W. Installed new oil filter p/n CH48110-1. Cut open the old filter and found no defects. Ran the engine and no leaks detected. The maintenance described above was performed and inspected in accordance with current FAA Regulations and is approved for return to service only for the work performed. Ref: 14 CFR Part 43.9. Pertinent details of the repair are on file at this repair station under Work Order number <u>18431</u> Signed <u>[Signature]</u> Dominion Aviation CRS ODAR018H 7511 Airfield Drive Richmond, Virginia 23237 (804) 271-7793 | | | | | | | |
| CARRIED FORWARD | | | | | | | |

N Number Date TACH/HOBBS AFTT
N654MS 4/8/2008 220.0 220.0

AF Entry

Performed 100 hour inspection on this aircraft in accordance with FAR 43 appendix D. Checked all controls for proper rigging and lubricated. Checked all cables for proper tension, checked all structural points, inspected all hoses, lines and wiring. Repacked all wheel bearings, checked tires, wheels and brakes for condition. Replaced RH brake pads with new PN 66-14100. Replaced overhead light lamp PN OSR2845. Inspected ELT in accordance with FAR 91.207(d) next due 04/2009, battery replacement date 11/2009. Replaced instrument air filters as required, checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked MFG SB's to date. Checked applicable AD's for compliance to date. All work performed in accordance with Diamond service manual and standard practice as listed in FAR part 43 to return this aircraft to service in airworthy condition. Refer to WO#G01341 on file at Dillon's Aviation, Inc.
 AD 2007-17-06 Nose Gear Inspection not due until 321.2 or 01/09 whichever occurs later.

[Signature]
 Shay Powers For Dillon's Aviation, Inc.
 AP3219912

N Number
N654MS
Date 4/8/2008 TACH/HOBBS 220.0

Log Entry

Upgraded G1000 software to Phase 6 software version 0369.13 -2 configuration PN 010-00369.13 in accordance with STC #SA0144WI-D, Garmin SB0739 Revision B and Diamond DA40 & DA40F field update instructions PN 190-00544-03. Installed revised documents in aircraft Cockpit Reference Guide and Flight Manual Supplements. Installed new TAWS unlock card PN 010-00330-51 for system ID change during software update. Refer to WO #G01341 on file at Dillon's Aviation, Inc.

[Signature]
 Ladd J. Maxson, Jr. For Dillon's Aviation, Inc.
 AP3064381

N Number
N654MS
Date 5/15/2008 TACH/HOBBS 266.6

Log Entry

Installed new aft cabin door handle assembly PN D41-5211-60-00-2. Refer to WO#G01375 on file at Dillon's Aviation, Inc.

[Signature]
 Ladd J. Maxson, Jr. For Dillon's Aviation, Inc.
 AP3064381

| DATE | DAILY TOTAL | | TOTAL AIR TIME SINCE MFG. | | ENGINEERING RECORD NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE |
|-----------------|-------------|-------|---------------------------|------|---|
| | HRS. | MIN. | HRS. | MIN. | |
| BROUGHT FORWARD | | | | | <p>05/19/2008 N654MS s/n 40.842 Tach: 273.7</p> <p>1. Remove LMG wheel from aircraft in runup area due to blown tire. Jack aircraft, remove LMG wheel assembly. Disassemble, clean and inspect for damage, no significant damage noted. Replace tire and tube, service with shop air to 36 psi per aircraft placard. Reinstall wheel and tire assembly on aircraft. I certify that the above captioned maintenance was performed in accordance with all applicable manufacturer's data, and other approved or acceptable data, as appropriate. I certify that this aircraft is APPROVED for return to service.</p> <p><i>Geoffrey E. Peterson</i> Geoffrey E. Peterson, A&P 3236901</p> |
| 5-29-08 | Tach | 287.9 | | | <p>Removed Fuel Boost Pump, Replaced/Installed New Boost Pump PN 5100-00-9, Bled air From System, OOPS Check O.K, No Leaks Noted.</p> <p><i>William R. Ruffel</i> A&P 2960804</p> |
| June 19 2008 | Tach | 318.2 | | | <p>Performed 100 hr. Insp. as per Diamond aircraft DA40 Amm chapter 05-20-00 and FAR 43 appendix D. Insp. ELT in accordance with FAR 91.207(b) better due date 11/2009 checked MFG SR's to date. Checked applicable AD's for compliance to date. CW AD 2007-17-06 nose gear Insp. Annual Due 9/08</p> <p>Approved for Return to Service</p> <p><i>William R. Ruffel</i> A&P 2960804</p> |
| | | | | | CARRIED FORWARD |

| INSPECTION, REPAIRS & REPLACEMENT | | SIGNATURE | LICENCE NUMBER |
|--|-----------------------|-----------|-------------------|
| ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | | | |
| 8/20/08 | 417.3 Tach 417.3 T.T. | | |
| On this date completed an Annual inspection ITW Manufacturers checklist. Cleaned fuel strainer. Greased wheel bearings. Lubricated ITW Diamond service manual researched all applicable AD's through 2008-17 and CD 07-17-06 ITW para (F)(1-4) due ca. Annual of 200 hrs. I certify that this aircraft has been inspected ITW a Annual inspection and has been found to be airworthy and is approved for return to service. The Sully ID 3209319 | | | |
| 8/20/08 | 417.3 Tach 417.3 T.T. | | |
| I inspected the ACK, EOI 91059041 EHT system installed in this aircraft according to aircraft and EHT manufacturers instructions and applicable FAA Guidance and found that it meets the requirements of 91.207 (d) battery expires 3/2003 The Sully ID 3209319 | | | |

AIR TIME AND

ENGINEERING RECORD

5

| DATE | DAILY TOTAL | | TOTAL AIR TIME SINCE MFG. | | ENGINEERING RECORD NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. |
|-----------------|-------------|------|---------------------------|------|--|
| | HRS. | MIN. | HRS. | MIN. | |
| BROUGHT FORWARD | | | | | |
| 6/30/08 | 329.7 | | | | Replaced LEFT Main Tire and Tube with New, Reinstalled on AIRCRAFT Ops Check O.K. William Rutledge ATP 2960804 |
| 7/1/08 | 331.9 | | | | Replaced RT. and LT Main Tires with New G-15/6.00-6 Replaced OPS Check O.K. |
| 8/12/08 | 407.5 | | | | Removed Nose Wheel Firing and adj. for new Weight balance. |
| 8/20/08 | 417.3 | | | | Annual preformed See entry on Other side of This page |

N# 654MS
Tach time 427

Date 9/02/08

Work preformed:

Removed old stall warning horn and installed new warning horn. Ops check ok

William Rutledge ATP 2960804

N#654MS
Tach time 440.1

Date 09/16/08

Work preformed:

Removed fuel boost pump SN#6515 Pn#5100-00-9 and replaced with new boost pump SN#8337. Ops check OK no leaks noted at this time.

William Rutledge ATP 2960804

| | | |
|---------|------------|---|
| 9/20/08 | Hobs 585.0 | Removed Cowl upper and Lower To Access Bat. |
| | Tach 444.3 | Removed Bat. For Service, Bat VT low |
| | | Do To Main Left ON. Reinstalled Eng Cowl |
| | | To protect from weather. |
| | | Andrew Johnson 3130792 CF 09/09 |

| INSPECTION, REPAIRS & REPLACEMENT | | SIGNATURE | LICENCE NUMBER |
|--|--|-----------|-------------------|
| ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | | | |
| New 15 X 6.0-6 Tires and Replaced Tubes | | | |
| Right and Left Brake Pads with New, Replaced all Spark Plugs. Fire Wires | | | |
| William Rutledge ATP 2960804 | | | |
| Revised WT and B/L. | | | |
| William Rutledge ATP 2960804 | | | |
| 9/21/08 Remove upper and lower eng Cowling, Reinstall | | | |
| Tach 444.3 Bat AFTER Service. Reinstall upper and lower Cowl. | | | |
| Hobs 585.0 OPS Check. O.K. Andrew Johnson 3130792 CF 09/09 | | | |
| 9/22/08 Hobs 445.4 Inspected work performed By Andy Johnson | | | |
| on 9/21/08 and 9/20/08 And Found it | | | |
| To be Satisfactory | | | |
| William Rutledge ATP 2960804 | | | |

AIR TIME AND

ENGINEERING RECORD

6

DAY TOTAL AIR



N Number
654MS

Date 1/9/2009 TACH/HOBBS
505.2

Log Entry

Installed exchange GIA63 LRU P/N 011-00781-01 S/N 48105049 and function tested. C/W Diamond MSB 40-060 Wing Skin to spar bond. LH & RH wing pass per W1-MSB-40-060. Filed void map with DAI and attached copy to maintenance records.

Refer to WO# G01540 on file at Dillon;s Aviation, Inc.

Ladd J Maxson, Jr. For Dillon's Aviation, Inc.
AP3064381



FOR COMPLET

ENTRIES. DF



Tidewater Flight Center.
1777 West Road
Chesapeake, VA 23323
757-319-4973
www.tidewaterflightcenter.com

Removed Right and Left main tires and replaced with new 15x6.0-6 tires, cleaned and repacked wheel bearings. ops check OK

Certificate number 2960804 Date 05/13/2009

Signature William Rutter A&P Tach time 605.0



DATE 6-08-09

Internally timed magneto P/N 4370 S/N 03091887 I.A.W
Manufactures instructions, op check is required after
installation, all secure

Robert J. McLaurin A&P3106325

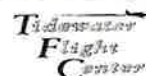


Tidewater Flight Center.
1777 West Road
Chesapeake, VA 23323
757-319-4973
www.tidewaterflightcenter.com

On this date a 100 hour inspection I/AW FAR 43 Appendix D checklist was performed. Description of work performed: Drained and replaced oil with Phillips 20w50, removed oil filter cut open and checked for any discrepancies and installed new 48110-1 filter, lubricated all control surfaces and checked cable tensions, checked Cyl PSI. Cyl #1 78/80 #2 78/80 #3 74/80 #4 72/80, removed- cleaned-gapped and reinstalled all spark plugs, Replaced right and left inner and outer brake pads with pn#066-14100, Removed, cleaned and reinstalled all 4 fuel injectors, Researched all applicable AD's through 2009-11. Comlied with AD# 2007-17-06 Nose landing gear next due tach 718.7 or 01/20/2010 AD# 2008-08-14 fuel injection servo plug next due tach 568.7 AD# 2008-14-07 fuel injection lines next due tach 618.7. Icertify that this aircraft has been inspected I/AW 100hr inspection and has been found to be in an airworthy condition and has been approved for return to service.

Certificatenumber 2960804 Date 01/20/2009

Signature William Rutter A&P Tach time 518.7
Total time 518.37



Tidewater Flight Center.
1777 West Road
Chesapeake, VA 23323
757-319-4973
www.tidewaterflightcenter.com

Make: ACK Serial: 059041
N#: 654MS

I have inspected the Make/Model/Serial Number ACK / E-01 /059041 ELT system in this aircraft according to applicable Aircraft and ELT manufacturer's interactions and applicable FAA guidance and found that it meets the requirement's of FAR 91.207 (d). The ELT battery expires on June 19 2009 03/2013

Signed William Rutter Certificate Number: 2960804

Date: 2960804
Jan. 29 2009

Certificatenumber Date 10/20/2009

Signature Tach time 518.8
Total time 518.7

CARRIED FORWARD



Tidewater Flight Center.
1777 West Road
Chesapeake, VA 23323
757-319-4973
www.tidewaterflightcenter.com

Make: ACK Serial: 059041
N#: 654MS

I have inspected the Make/Model/Serial Number ACK / E-01 /059041 ELT system in this aircraft according to applicable Aircraft and ELT manufacturer's interactions and applicable FAA guidance and found that it meets the requirement's of FAR 91.207 (d). The ELT battery expires on 03/2013

Signed Certificate Number: 2960804

Certificatenumber 2960804 Date 06/08/2009

Signature William Rutter A&P Tach time 618.3



Tidewater Flight Center.
1777 West Road
Chesapeake, VA 23323
757-319-4973
www.tidewaterflightcenter.com

On this date a 100 hour inspection I/AW FAR 43 Appendix D checklist was performed. Description of work performed: Drained and replaced oil with Phillips 20w50, removed oil filter cut open and checked for any discrepancies and installed new 48110-1 filter, lubricated all control surfaces and checked cable tensions, checked Cyl PSI. Cyl #1 78/80 #2 68/80 #3 70/80 #4 68/80, removed- cleaned-gapped and reinstalled all spark plugs, Removed right mag and replaced with new mag PN#4370 SN# 03091887 IAW manual, installed new alt air duct and flange PN#3802-0022,D417166-20-31,30,33,42, Researched all applicable AD's through 2009-11. Complied with 2009-02-03 by I 1-10 and K - M Icertify that this aircraft has been inspected I/AW 100hr inspection and has been found to be in an airworthy condition and has been approved for return to service.

Certificatenumber 2960804 Date 06/08/09

Signature William Rutter A&P Tach time 618.3

AIR TIME AND

ENGINEERING RECORD

8

| DATE | DAILY TOTAL | | TOTAL AIR TIME SINCE MFG. | | ENGINEERING RECORD | INSPECTION, REPAIRS & REPLACEMENT | SIGNATURE | LICENCE |
|-----------------|-------------|------|---------------------------|------|--------------------|-----------------------------------|-----------|---------|
| | HRS. | MIN. | HRS. | MIN. | | | | |
| BROUGHT FORWARD | | | | | | | | |

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



N Number
N654MS

Date 8/14/2009 TACH/HOBBS 674.2

Log Entry
Installed new wing root seal on LH and RH wings P/N B6000676. Installed new up flap indicator light P/N RC0810717. Refer to WO# G01730 on file at Dillon's Aviation Inc.

Ladd J Maxson Jr.
AP3064381

Tidewater Flight Center.
1777 West Road
Chesapeake, VA 23323
757-319-4973
www.tidewaterflightcenter.com
N654MS

On this date a 100 hour inspection I/AW FAR 43 Appendix D checklist was performed. Description of work performed: Drained and replaced oil with Phillips 20w50, removed oil filter cut open and checked for any discrepancies and installed new 48110-1 filter. Lubricated all control surfaces and checked cable tensions, checked Cyl PSI. Cyl #1 76/80 #2 78/80 #3 76/80 #4 76/80, removed- cleaned-gapped and reinstalled all spark plugs. Replaced right and left inner and outer brake pads with pn#066-14100. Removed, cleaned and reinstalled all 4 fuel injectors. Researched all applicable AD's through 2009-11. Comlied with AD# 2007-17-06 Nose landing gear next due tach 788.2 or 09/30/2010. AD# 2008-08-14 fuel injection servo plug Marked with "G" NA. I certify that this aircraft has been inspected I/AW ANNUAL inspection and has been found to be in an airworthy condition and has been approved for return to service.

Certificatenumber BAE 13311041.1.A. Date 09/01/2009

Signature Ed Capone Tach time 688.2
Total time 688.2

Tidewater Flight Center.
1777 West Road
Chesapeake, VA 23323
757-319-4973
www.tidewaterflightcenter.com

Make: ACK Serial: 059041
N#: 654MS

I have inspected the ACK - E-01 -059041 - ELT system in this aircraft according to applicable Aircraft and ELT manufacturer's interactions and applicable FAA guidance and found that it meets the requirement's of FAR 91.207 (d). The ELT battery expires on 03/2013

Signed: Ed Capone Certificate Number: BAE 13311041
Date: 9-1-09

Certificatenumber Date 09/01/2009

Signature Tach time 688.2

CA' IED FORWA'



N654MS

Tidewater Flight Center.
1777 West Road
Chesapeake, VA 23323
757-319-4973
www.tidewaterflightcenter.com

Replaced left brake caliper 'O' ring seal with new PN# MS28775-224 bled brake of air and fill brake res. Replaced brake linings on right main gear with new PN# 66-106. Removed left main tire from aircraft and replaced with new 15x6.00-6 tire and reinstalled on aircraft. Ops Check OK

Certificatenumber BAE 13311041 Date 01/21/2010

Signature Ed Capone Tach time 754.0
TTach 754.0

Shelby Performance Aviation
32446 John B. Rose Drive
Franklin Va. 23851
CRS 2SB016B

The static system, altimeter instrument and automatic altitude reporting system tests required by 14 CFR Part 91.411 have been performed and found to comply with 14 CFR Part 43 appendix E. The altimeter was tested to 20,000 FT. on 9/29/09

N 654MS

Tach/Hobbs 704.1

Signed: Ed Capone
Inspector Shelby Performance Aviation CRS 2SBR016B
Date: 9/29/09

Shelby Performance Aviation
32446 John B. Rose Drive
Franklin Va. 23851
CRS 2SB016B

The ATC transponder test required by 14CFR Part 91.413 has been performed and found to comply with 14 CFR Part 43 appendix F.

#1 S/N 88904478

#2 S/N

W/O # 039

N 654MS

TACH/HOBBS 704.1

Signed: Ed Capone
Inspector Shelby Performance Aviation CRS 2SBR016B
Date: 9/29/09

SECTION 6
CONTROL MANUAL
DATE: 08-10-07

| DATE | TIME | DESCRIPTION | DATE | TIME | DESCRIPTION |
|------|------|---|------|------|-------------|
| | | <p>Tidewater Flight Center N654MS Tidewater Flight Center. 1777 West Road Chesapeake, VA 23323 757-319-4973 www.tidewaterflightcenter.com</p> <p>Performed a 100 hr inspection on this airframe IAW FAR 43 appendix D. Replaced right main tire. Stop drilled small crack in right wheel fairing. Replaced three rivets in right wheel fairing mount. Replaced damaged screws in right seat pan. Lubricated all plate nuts for inspection panels. Removed damaged #4 EGT probe system released under FAR 91-213, placards installed as required. Lubricated all flight controls. All ADs checked through 2/19/2010. Ran aircraft all systems check ok. aircraft returned to service.</p> <p>Ed Capone A&E 1331104 Tach. 771.6 Date 2/19/2010</p> <p><i>Ed Capone</i></p> | | | |

| DATE | TIME | DESCRIPTION | DATE | TIME | DESCRIPTION |
|------|------|--|------|------|-------------|
| | | <p>Tidewater Flight Center N654MS Tidewater Flight Center. 1777 West Road Chesapeake, VA 23323 757-319-4973 www.tidewaterflightcenter.com</p> <p>I have inspected the Make ACK Model ELT-200 Serial Number E059041 ELT system in this aircraft according to applicable Aircraft and ELT manufacturer's interactions and applicable FAA guidance and found that it meets the requirement's of FAR 91.207 (d). The ELT battery expires on March 2013.</p> <p>Signed: <i>Ed Capone</i> Certificate Number <i>A&E 1331104</i> Date: 2/19/2010 Tach 771.6</p> | | | |

| DATE | TIME | DESCRIPTION | DATE | TIME | DESCRIPTION |
|------|------|---|------|------|-------------|
| | | <p>Tidewater Flight Center LLC 1777 West Rd. Chesapeake, VA. 23323</p> <p>N654MS Tach. 917.0 Date 9/18/2009</p> <p>Replaced emergency instruments battery, p/n D60-2560-91-00 expiration date April 2018, all systems check ok.</p> <p>Ed Capone A&E 1331104</p> <p><i>Ed Capone</i></p> | | | |

| DATE | TIME | DESCRIPTION | DATE | TIME | DESCRIPTION |
|------|------|--|------|------|-------------|
| | | <p>Tidewater Flight Center N654MS Tidewater Flight Center. 1777 West Road Chesapeake, VA 23323 757-319-4973 www.tidewaterflightcenter.com</p> <p>Tach. 803.0 Date 4/7/10</p> <p>Brakes leaking fluid, installed new "O" ring seals in both brakes, installed four new brake pads, bled the brake system, ground check ok.</p> <p>William Rickard A&P 2960804</p> <p><i>William Rickard</i></p> | | | |

COMPLETION ENTRIES

| DATE | TIME | DESCRIPTION | DATE | TIME | DESCRIPTION |
|------|------|--|------|------|-------------|
| | | <p>Tidewater Flight Center N654MS Tidewater Flight Center. 1777 West Road Chesapeake, VA 23323 757-319-4973 www.tidewaterflightcenter.com</p> <p>Tach. 778.8 Date march 16 2010</p> <p>Bolt missing from right gear fairing, replaced bolt checks ok for service.</p> <p>William Rickard A&P 2960804</p> <p><i>William Rickard</i> 05 May '10</p> | | | |



| DATE | TIME | DESCRIPTION | DATE | TIME | DESCRIPTION |
|------|------|---|------|------|-------------|
| | | <p>N Number N654MS</p> <p>Date 6/3/2010</p> <p>TACH/HOBBS 851.5</p> <p>Log Entry Removed old fuel pump. Installed newly repaired fuel pump PN 5100-00-09 SN 9821A, see Dukes Inc. 8130-3 Form. Leak and ops checked good. Installed EGT probe assembly PN A002BG-WIP in #4 position, ops checked good. Refer to WO#G01948A on file at Dillon's Aviation, Inc.</p> <p><i>Ladd J Maxson, Jr.</i> For Dillon's Aviation, Inc. AP3064381</p> | | | |

| DATE | TIME | DESCRIPTION | DATE | TIME | DESCRIPTION |
|------|------|--|------|------|-------------|
| | | <p>Tidewater Flight Center N654MS Tidewater Flight Center. 1777 West Road Chesapeake, VA 23323 757-319-4973 www.tidewaterflightcenter.com</p> <p>Tach. 871.2 Date 6/23/2010 Annual Inspection</p> <p>Performed a 100 hr. inspection on this aircraft IAW FAR 43 appendix D, and the Diamond maintenance manual. Rotated both main tires, cleaned and lubricated all wheel bearings. Lubricated all flight controls. Removed the rudder per the M/M and inspected as required. Removed and cleaned the main fuel filter. Checked the wing fuel drains, no water found. Inspected the ELT per FAR 91-207 Dmod ACK-E-01 # 059041 Batt. due 3/2013. Serviced brake fluid. Inspected the nose landing gear leg as required, due at Tach. 1071.2. Performed AD 2009/10/4 inspection of nose gear ok. All AD notes checked through 6/23/2010. Ran the aircraft all systems check ok for service. Ed Capone A&E 1331104</p> <p>I certify that this aircraft has been inspected in accordance with the annual inspection and has been determined to be airworthy. Ed Capone A&E 1331104 I.A.</p> <p><i>Ed Capone</i></p> | | | |

| DATE | TIME | DESCRIPTION | DATE | TIME | DESCRIPTION |
|------|------|--|------|------|-------------|
| | | <p>Tidewater Flight Center N654MS Tidewater Flight Center. 2802 Airport Drive, Suite 1 Chesapeake, Virginia 23323 757-319-4973 www.tidewaterflightcenter.com</p> <p>Tach. 835.3 Date 5/25/2010</p> <p>Replaced stall warning horn, checks ok for service.</p> <p>Ed capone A&E 1331104</p> <p><i>Ed Capone</i></p> | | | |

| DATE | DAILY TOTAL | | TOTAL AIR TIME SINCE MFG. | | ENGINEERING RECORD |
|-----------------|-------------|------|---------------------------|------|---|
| | HRS. | MIN. | HRS. | MIN. | |
| BROUGHT FORWARD | | | | | NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE ENTRIES. DR |

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Tach.882.7

Date 7/5/2010

Removed rudder repaired broken ground wire for the rudder. Installed rudder system checks ok for service. Ed Capone A&E 1331104.

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Tach: 1472.4

Date: 29 July 2010

Remove ELT from aircraft, disassemble, remove unservicable battery pack, install new battery pack P/N: 452-3063, expiration date of April/2012, reseal ELT cover, perform frequency test and impact test, test good, reinstall ELT into aircraft, perform test with instrument panel switch, test good. All work is in accordance with the Manufactures Maintenance Manual and this aircraft is return to service only for the work preformed.

Pete Legarski A&P3429364

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Tach: 904.0

Date 7/28/2010

Retrieved aircraft from taxi way B. Replaced left main wheel tire and tube. Inspected area for any damage none found. Cleaned and inspected the wheel bearings. Lubricated as required taxi aircraft all systems check ok for service. Ed Capone A&E 1331104

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Tach: 904.0

Date: 29 July 2010

Remove R/S & L/S wheel assemblies, disassemble, clean, inspect for discrepancies, repack bearings with new grease, install two each 15X6.00 6ply tires, install R/S & L/S wheel assemblies on main gear, inspection revealed unsecure nut plate L/S axle hub, in addition to four unservicable break linings, secured nut plate with new fasteners, replaced brakes with new linings P/N:066-14100, all work performed according to Manufactures Maintenance Manual and this aircraft is found to be returned to service only for the work performed.

Pete Legarski A&P3429364

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Date: 8-27-2010

Removed electric boost pump p/n5100-00-09 s/n 9821A. Installed repaired pump p/n 5100-00-09 s/n 9708A. Operational and leak check OK.

James E. Parkman
AP 3270184

Tach Reads 941.7

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Date: 10/15/2010

Tach reads: 972.1

Complied with a 100 hour inspection in accordance with FAR 43 appd D. Opened all panels. Lubricated aircraft. Installed new LH and RH brake discs and linings. Repacked RH brake caliper and bled brakes. Installed new tube in RH wheel assy. Closed all panels. Repaired nose wheel fairing. Placarded AFCS system as inoperative. Ground run and leak check OK. I certify that this aircraft has been inspected in accordance with a 100 hour inspection was found to be airworthy.

William Rickard AP 2960804

Diamond
AIRCRAFT

N Number
N654MS

Date 11/11/2010 TACH/HOBBS 1009.8

Log Entry

Updated G1000 NAVDATA Cycle 1011 Cycle Date 2010-Oct-21. Adjusted elevator trim friction from 1lb to 6.5lb in accordance with Diamond Aircraft AMM 27-38-00 (c). Refer to WO#G02047 on file at Dillon's Aviation, Inc.

Ladd J Maxson, Jr. For Dillon's Aviation, Inc.
AP3064381A

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Date: 1/21/2011

AD 2009-10-04 does not apply Nose landing gear leg p/n D41-3223-10-00-1 is installed in aircraft. See Diamond Service Bulliten MSB40-046/3 for aircraft serial number effectivity.

Complied with AD 2010-25-01 by incorporating Diamond Aircraft Temporary Revision TR-MAM 40-428, page 3-37b, dated April 30, 2010

NO FURTHER ACTION REQUIRED

James E. Parkman AP 3270184 IA

11

CARRIED FORWARD

AIR TIME AND

ENGINEERING RECORD

12

DATE

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FORWA

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Flight
Center

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N654MS

Date: 9/23/2011

AFTT: 1273.3

Complied with a 100 hour inspection in accordance with FAR 43 appd D. Opened all panels. Lubricated aircraft. Closed all panels. Installed new LH and RH linings. Installed new RH tire with new. Installed new recapped nose tire. Rotated LH main tire on wheel. I certify that this aircraft has been inspected in accordance with a 100 hour inspection was found to be airworthy.

Wayne C. Newton AP3450425 IA

Wayne C Newton

Date October 4, 2011 Hobbs 1698.9 Make & Model Diamond DA-40 N654MS

Found GDC 74 altitude out of tolerance. Removed GDC 74, part #011-00882-00 serial #47808070 to shop. Performed field calibration in accordance with Garmin manual #190-00303-82, dated February 2011 Rev. C. Returned to aircraft. See certification entry this date.

This aircraft found to be airworthy with respect to the work performed under Work order #23379.

Signed

Ronald W. Gripp
Inspector

Bay Avionics, Ltd, CRS# HM1R197K

DATE 10-04-11 AC HRS 1698.9 N654MS

I CERTIFY THAT THE ALTIMETER, ALTITUDE REPORTING AND STATIC SYSTEM TESTS REQUIRED BY CFR 91.411 HAVE BEEN PERFORMED. TESTS WERE PERFORMED TO 20,000 FT.

ALT. 10-04-2011 DATE

ENCODER 10-04-2011 DATE

STATIC SYSTEM 10-04-2011 DATE

THIS ATK 33 TRANSPONDER S/N 89105006 HAS BEEN TESTED AND FOUND TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF CFR 91.413(PART 43 APP F).

DATE 10-04-2011

SIGNED

Ronald W. Gripp
INSPECTOR

BAY AVIONICS, LTD. HM1R197K

N654MS

Date 11/23/2011

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Tach reads: 1353. AFTT1353.0

Removed and replace battery Concorde p/n RG-24-15M. Ground checks OK.

J. E. Parkman AP33270184

J. E. Parkman

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N654MS

Tach reads: 1424.1

Date: 3-6-2012

Removed wheel fairing. Removed caliper assembly. Cleaned and repacked caliper assembly as required. Bled brakes in accordance with the Diamond DA40 maintenance manual. Reinstalled wheel fairings

Ed Capone A&E 1331104IA

Ed Capone

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N654MS

Tach reads: 1475.1. AFTT:1475.1

Date 6/1/12

Complied with an annual inspection in accordance with FAR 43 appd D. Opened all panels. Lubricated aircraft. Closed all panels. Complied with an ELT inspection in accordance with FAR 91.207(d). Battery due 3/13. Installed new LH brake linings. Rotated RH tire on wheel. Repacked RH brake caliper and bled brakes. Resecured trim on glareshield. I certify that this aircraft has been inspected in accordance with an annual inspection was found to be airworthy.

Wayne C. Newton AP3450425 IA

Wayne C Newton

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N654MS

Tach reads: 1494.5

7-13-12

Removed battery Concorde p/n RG24-15M due to extremely high amp draw. Installed new battery of same part number. Ground run and ops check of electrical system OK.

Dirk Van den Brink AP3637044

Dirk Van den Brink

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N654MS
WO 2613

Tach reads: 1526.5

Date: 8-3-2012

Installed new right hand brake linings. Removed old carpet on pilot and co-pilots footwells. Cleaned adhesive residue. Installed new carpet. Installed new lamp in flap indicator. Ops checks OK.

Dirk Vandenberg AP3637044

Dirk Vandenberg

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N654MS

Date: 12/15/2011

AFTT: 1373.9

Complied with a 100 hour inspection in accordance with FAR 43 appd D. Opened all panels. Lubricated aircraft. Closed all panels. Installed new LH linings. Installed new Powerflow collector and muffler insert in accordance with Powerflow report number PFS-15250-00 rev E. Installed new LH tire with new. Installed new main canopy aft seal. Performed touch up painting in various locations. Installed new lower ventral fin skid plate p/n DA4-5183-00-61. Installed new nose wheel bearing p/n 08125. I certify that this aircraft has been inspected in accordance with a 100 hour inspection was found to be airworthy.

Wayne C. Newton AP3450425 IA

Wayne C Newton



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N654MS

Tach reads: 1574.7 AFTT:1574.7

Date 10/18/12

Complied with a 100 hour inspection in accordance with FAR 43 Appendix D. Removed and replaced Emergency battery, P/N D60-2560-91-00, s/n 12-256-22. Battery due time change September 2014. Installed new rudder cables using Diamond rudder cable kit p/n CSKIT-04. Rigged rudder system per DA40 maintenance manual. Removed and disassembled LH nav light assembly. Installed new lamp and reassembled light. OPs check OK. Relocated registration holder to baggage area as required. Installed new rudder bonding jumper. I certify that this aircraft has been inspected in accordance with a 100 hour inspection was found to be airworthy.

Wayne C. Newton AP3450425 IA



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N654MS
WO 3907

Tach reads 1607.7

11/27/12

Jacked aircraft and removed right main wheel assembly. Disassembled and inspected wheel. Cleaned and inspected wheel bearings. Packed wheel bearings. Installed new Goodyear Flight Custom III tire and inner tube. Reassembled wheel. Reinstalled wheel assembly on aircraft. Removed aircraft from jacks.

James Parkman
AP 3270184



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N654MS

Tach reads: 1623.8

Date: 12-27-2012

Removed and replaced left and right main landing gear brake linings. Installed new cabin door lock cylinder assys.

Dirk Vandenbrink AP3637044



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N654MS
WO 5254

Tach reads: 1674.7 AFTT:1674.4

4/17/13

Complied with an Annual inspection in accordance with FAR 43 Appendix D. Opened all panels. Lubricated aircraft. Torqued right axle to strut fasteners. Relined right brake. I certify that this aircraft has been inspected in accordance with an Annual inspection was found to be airworthy.

Wayne C. Newton AP3450425 IA

ORD
AS REQUIRED FOR COMPLETE



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N654MS

Date: 5-17-13

Complied with an ELT inspection in accordance with FAR 91.207(d). Battery expires 6/15.

James E. Parkman
AP3270184 IA



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N654MS
WO 5666

Date: 5/23/2013

Removed defective wing walk tape from right and left wings. cleaned affected areas. Installed new tape as required.

William Rickard AP2960804



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N654MS
WO 6207

Tach reads: 1715.8

Date: 7/3/13

Removed wheel pant fairing. Removed brake caliper assembly. Disassembled, cleaned and inspected caliper. Installed new caliper piston o-ring. Reassembled caliper. Reinstalled caliper and bled brake. Ground checks OK

Dirk Vandenbrink AP3637044



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N654MS

Tach reads: 1768.3 Engine total time : 0 since new

Date 12-16-13

Installed this engine IO360-M1A s/n RL-3841-51E on a Diamond DA40 s/n 40.842, Reg N654MS. The engine was installed in accordance with the DA40 Maintenance manual with new engine isolators and bolts. Engine was serviced with 8 qts of Phillips 20W50. The engine was run up and the idle speed and idle mixture was set. The engine was leak checked. The engine was broken in in accordance with Lycoming Service instruction 1427C. This engine is approved for return to service.

James Parkman AP3270184 IA

SIGNATURE LICENCE NUMBER



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N654MS

Tach reads: 1768.3 AFTT:1768.3

12/16/13

Complied with an ANNUAL inspection in accordance with FAR 43 appd D. Opened all panels. Lubricated aircraft. Closed all panels. Serviced induction air filter. Inspected ELT in accordance with FAR 91.207(d). No defects noted. Battery due 3/2018. Rotated left tire on wheel. Installed new nose landing gear. Rubber elements p/n DIN 9835-63x50 and DIN 9835-32x40. Ground run and leak check OK. I certify that this aircraft has been inspected in accordance with an ANNUAL inspection was found to be airworthy.

James Parkman AP3270184 IA

CORD
S AS REQUIRED FOR COMPLETE



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N654MS
wo 9795

Tach reads: 1870.3 AFTT:1870.3 Hobbs reads: 2440.1

8/20/14

Complied with a 100 hour inspection in accordance with FAR 43 appd D. Opened all panels. Lubricated aircraft. Closed all panels. Installed new induction air filter p/n FR-08504. Installed new left main tire. In installed new right main wheel brake disc RA164-24400 and linings p/n APS66-14100. Complied with AD 2011-26-04, Fuel injector lines, Next due at 1970.3. AD2014-13-08 Wing spar modification is NOT due at this time. AD2014-13-08 is due 2370.3 AFTT or January 31, 2024. Washed engine. Ground run and leak check OK. I certify that this aircraft has been inspected in accordance with a 100 hour inspection was found to be airworthy.

Wayne C. Newton AP3450425



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N654MS
wo 10245

Tach reads: 1896.40 AFTT:1896.4

Date 10/1/14

Removed and replaced Emergency battery. P/N D60-2560-91-00, Battery due time change October 2016. Tested ELT in accordance with FAR 91.207(d).

Dirk van den Brink AP 3637044

DATE 12-17-13 AC HRS 2309.6 N 654MS

I CERTIFY THAT THE ALTIMETER, ALTITUDE REPORTING AND STATIC SYSTEM TESTS REQUIRED BY CFR 91.411 HAVE BEEN PERFORMED. TESTS WERE PERFORMED TO 29,000 FT.

ALT. 12-17-13 DATE

ENCODER 12-17-13 DATE

STATIC SYSTEM 12-17-13 DATE

THIS GTX-33 TRANSPONDER S/N 89105006 HAS BEEN TESTED AND FOUND TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF CFR 91.413(PART 43 APP F).

DATE 12-17-13

SIGNED

INSPECTOR
BAY AVIONICS, LTD. HM1R197K

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N654MS
wo 8652

Date: 4/18/14

Pilot reports no alternator output. Removed and charged battery. Checked all wiring at alternator. Checked wiring at voltage regulator. Found minor corrosion on pins in cannon plug at regulator. Cleaned and reassembled. Reinstalled battery. Test run OK.

Dirk van den Brink AP 3637044



Barrier Island Aviation, Ltd.

N654MS 10-19-14 Tach: 1915.60

Replaced lh main tube with McCreary Airtec 15x6.00-6. Ground run good. Andy Rosman 3524208 A&P



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N654MS
wo 10509

Tach reads: 11919.8

Date: 10-24-14

Removed and replaced left brake lining p/n 066-14100. Ground checks OK.

William Rickard AP 2960304



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FORM



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N654MS
wo 10799

Tach reads: 1955.4

Date: 12/1/14

Jacked aircraft and removed main wheel assembly. Disassembled and inspected wheel. Cleaned and inspected wheel bearings. Packed wheel bearings. Installed new 15X600-6pr tire and reassembled wheel. Reinstalled wheel assembly on aircraft. Removed aircraft from jacks.

Dirk Van den Brink AP 3637044



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N654MS
wo 10958

Tach reads: 1969.8 AFTT:1969.8

12/19/14

Complied with an Annual inspection in accordance with FAR 43 appd D. Opened all panels. Lubricated aircraft. Closed all panels. Inspected ELT in accordance with FAR 91.207(d). No defects noted. Battery due 6-15. Cleaned and serviced induction air filter. Installed new ring in left brake caliper. Serviced and bled brakes as required. Installed new bulbs p/n W1290-28, in right and left nav lights. Ops checks OK. Installed new static wick on LH aileron. Washed engine. Ground run and leak check OK.

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

James Parkman AP 3270184 IA



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N654MS
wo 11376

Tach reads: 1985.8

Date: 2/7/15

Jacked aircraft and removed main wheel assembly. Disassembled and inspected wheel. Cleaned and inspected wheel bearings. Packed wheel bearings. Installed new 15X600-6pr tire and reassembled wheel. Reinstalled wheel assembly on aircraft. Removed aircraft from jacks. Oil pressure, fuel flow, & pitot heat inop. Verified components OK. Inspected wiring. Could not duplicate fault. Aircraft returned to service.

Dirk Van den Brink AP 3637044



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N654MS
WO#11599

Tach reads: 1999.6

Date: 3/2/15

RT Brake sluggish. Replaced O-ring in brake caliper. Replaced brake liners. Bled brake system. Ops check OK. Aircraft returned to service.

Wayne Newton AP3450425 IA



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N654MS
wo 12255

Tach reads: 2010.7

Date: 5/11/15

Removed and replaced GRS 77. Installed overhauled unit p/n 011-00868-10 s/n 42021843. Installed new software compatibility update. Work was accomplished in accordance with the Garmin G1000 line maintenance manual and Garmin G1000 Field Update Instructions - Diamond DA 40 & DA 40 F 190-00544-03. Rev 10 dated May 2013. Ground checks OK.

Dirk van den Brink AP3637044



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N654MS
wo 12500

Tach reads: 2015.9

Date: 6-17-15

Replaced ELT batteries with Duracell MN1300 "D" cell batteries, checked per ACK E-01 manual. Inspected per FAR91.207(d). No discrepancies noted. Re-installed in aircraft. Next Due June 2017.

Dirk Van den Brink AP3637044



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N654MS
wo 12500

Tach reads: 2015.9

Date: 6-17-15

Drained oil. Removed and inspected filter. No defects noted. Installed new filter p/n 48110-2. Serviced engine with 7 qts of Phillips 20w50. Washed engine. Ground run and leak check OK.

Wayne C. Newton AP3450425

Wayne C Newton see Engine Log Book for sign off Wayne C Newton



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N654MS
wo 12904

Tach reads: 2042.90

Date: 7/20/15

Jacked aircraft and removed LH main wheel assembly. Disassembled and inspected wheel. Cleaned and inspected wheel bearings. Packed wheel bearings. Installed new 15X600-6pr tire with a new tube and reassembled wheel. Reinstalled wheel assembly on aircraft. Removed aircraft from jacks.

Shirleen Bergren AP3804009



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N654MS
wo 13904

Tach reads: 2070.2 AFTT:2070.2
Complied with an Annual inspection in accordance with FAR 43 appd D. Opened all panels. Lubricated aircraft. Inspected ELT in accordance with FAR 91.207(d). No defects noted. Battery due 12-24. Cleaned and serviced induction air filter. Bled and serviced brakes. Cleaned and tightened connector for L/H white and nav light. Installed new rubber strap on tail pipe bracket. Replaced cabin heat scat tubing. Replaced grounding straps at flap push rods under rear L/H seat. Complied with essential bus check and static bonding check in accordance with Diamond maintenance manual. Repaired crack in tail skid with fiberglass, then painted. Installed new nose gear tube p/n 5.00x5. Remove nose wheen to clean, readjusted nose wheel castering force. Tightened L/H main landing gear axle bolts. Ground run and leak check OK.
I certify that this aircraft has been inspected in accordance with an Annual inspection was found to be airworthy.
James Parkman AP 3270184 IA *James E. Parkman*

10/27/15

CORD

AS REQUIRED FOR COMPLETE

ENTRIES. DRA



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N654MS
wo 16344

Date: 4/27/2016

Tach reads: 2145.30

Jacked aircraft and removed LH main wheel assembly. Disassembled and inspected wheel. Installed new 15X600-6 ply tire with a new tube and reassembled wheel. Reinstalled wheel assembly on aircraft. Removed aircraft from jacks.

Shirleen Bergren AP3804009

Shirleen Bergren

LICENCE
NUMBER



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N654MS
wo 14581

Tach reads: 2511.6

Date: 12-22-2015

Install new door lock and fit new key to match the baggage door lock.

William Rickard AP 2960804

William Rickard



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N654MS
wo 16344

Date: 5/2/2016

Tach reads: 2145.9

Removed and replaced light bulb p/n A50828, Ops check Good

Shirleen Bergren AP3804009

Shirleen Bergren



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N654MS
wo 17129

6/29/16

Tach reads: 2175.1 AFTT:2175.1

Complied with a 100 hour inspection in accordance with FAR 43 appd D. Opened all panels. Lubricated aircraft. Cleaned and serviced induction air filter. Removed pilot side wing walk. Cleaned affected area. Installed new wing walk. Gained access to a resecured and tightened magneto/ start switch. Ground run and leak check OK.

I certify that this aircraft has been inspected in accordance with a 100 hour inspection was found to be airworthy.

William Rickard AP2960804

William Rickard



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N654MS
wo 18787

10/14/16

Tach reads: 2220.7 AFTT:2220.7

Complied with an Annual inspection in accordance with FAR 43 appd D. Opened all panels. Lubricated aircraft. Cleaned and serviced induction air filter. Complied with an ELT inspection in accordance with FAR 91.207(d). No defects noted. Battery due 6-17. Complied with Powerflow Exhaust system ICA. Checked and set nose wheel castering force. Installed new Emergency battery p/n D60-2560-91-00. Next due eplacement 10-2018. Removed and replaced lower comm antenna p/n DMC63-2. Ops checks OK. Complied with AD 2015-19-07 in accordance with Lycoming SB342G. No defects noted. Next due at 2320.7 AFTT. Ground run and leak check OK.

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

James E. Parkman AP3270184IA

James E. Parkman

DATE 01-26-16 AC HRS 2748.2 N 654MS

I CERTIFY THAT THE ALTIMETER, ALTITUDE REPORTING AND STATIC SYSTEM TESTS REQUIRED BY CFR 91.411 HAVE BEEN PERFORMED. TESTS WERE PERFORMED TO 20,000 FT.

ALT. 01-26-16 DATE

ENCODER 01-26-16 DATE

STATIC SYSTEM 01-26-16 DATE

THIS ATX-33 TRANSPONDER S/N 89105006 HAS BEEN TESTED AND FOUND TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF CFR 91.413(PART 43 APP F).

DATE 01-26-16

SIGNED

James E. Parkman
INSPECTOR
BAY AVIONICS, LTD. HM1R197K

CARRIED FORWARD

BAY AVIONICS, LTD.
HM1R197K
Work Order: 35860
Squawk Number: 1

AIR TIME AND

ENGINEERING RECORD

17

DATE

BROUGHT
FORWARD



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N654MS
wo 19376

Tach reads: 2225.10

Date: 11/15/2016

Troubleshoot system IAW Whelen troubleshooting instructions. Determined strobe power pack is bad.; Ground off screw head to remove wing tip for access to strobe power supply.; Installed new nut plate as required.; Installed new power supply. Ops check OK

Shirleen Bergren AP3804009

Shirleen Bergren



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N654MS
wo 19571

Tach reads: 2231.9

Date: 11/29/2016

Muffler insert missing parts/damaged. Removed muffler, ground off damaged screws and removed damaged insert. Drilled new holes for new insert, assembled muffler with new insert p/n PFS-0016, installed on aircraft.

Dirk Van den Brink

Dirk Van den Brink AP3637044



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N654MS
wo 19711

Tach reads: 2235.7

Date: 12/8/2016

Map reading lights inoperative; Pulled down all three light fixtures, cleaned out RTV. Checked bulbs, all OK. 1 switch found dirty. Cleaned, ops checked, OK. 2 light switches found broken from "excessive actuation pressure", cleaned, applied epoxy adhesive, clamped and allowed to cure overnight. Reinstalled, RTVD fixtures back into place, cleaned up.; Camloc fastener missing from top/front of RH inboard main gear wheel pant access panel; installed new Camloc fastener in place of broken fastener;

Dirk Van den Brink

Dirk Van den Brink AP3637044



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N654MS
wo 20641

Tach reads: 2242.6 AFTT: 2242.6

2/13/2017

Removed glare shield to gain access to stall horn. Removed stall horn and replaced reed in horn. Reinstalled horn and glare screen. ops check good.

Shirleen Bergren AP 3804009

Shirleen Bergren

OR COMPLETE

ENTRIES. DRAW A



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N654MS
wo 22039

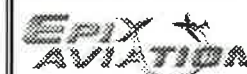
Tach reads: 2256.8 AFTT: 2256.8

5/10/2017

Jacked aircraft and removed RH main wheel assembly. Disassembled and inspected wheel. Installed new tire p/n 072-449-0 (15X6.0-6 Tire) and reassembled wheel with new tube p/n 097-500-0 (15X6.0-6 Tube). Reinstalled wheel assembly on aircraft. Removed aircraft from jacks.

Shirleen Bergren AP3804009

Shirleen Bergren



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N654MS
wo 22507

Tach reads: 2268.8 AFTT : 2268.8

Date 6/7/2017

Removed ELT, disassembled ELT and inspected batteries. Reassembled ELT with new case p/n E0103 and tested. Ops check good. Reinstalled ELT in aircraft and closed aft bulkhead panels. Batteries due DEC 2024.

Shirleen Bergren AP3804009

Shirleen Bergren


*See
Next
Page*

AIR TIME AND

ENGINEERING RECORD

| DATE | DAILY TOTAL | | TOTAL AIR TIME SINCE MFG. | | ENGINEERING RECORD |
|---|-------------|------|---------------------------|------|--------------------|
| | HRS. | MIN. | HRS. | MIN. | |
| NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE | | | | | |

BROUGHT FORWARD



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N654MS
wo 18787


3/29/2017

Tach reads: 2251 AFTT: 2251

Removed cowling, removed battery cover and battery. Installed battery same part number s/n 40870412, re-cowled aircraft and ran. Operational checks good.

Shirleen Bergren AP 3804009

Shirleen Bergren



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N654MS
wo 23303


Date 7/21/2017

Tach reads: 2296.0

Installed new RH strobe flash tube p/n 02-025026-00.

Shirleen Bergren AP3804009

Shirleen Bergren



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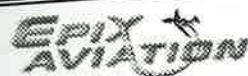
N654MS
wo 23966
Date: 14AUG2017

Tach reads: 2316.6

Removed wheel fairings on LH and RH main wheels. Jacked aircraft and removed the LH Tire. Replaced tire with new tire p/n: 156E66-4. Retorqued wheel bolts to 150 in-lbs. Removed 4 worn brake linings on both LH and RH side. Replaced with new linings p/n: 066-14100. Removed calipers from both wheels. Cleaned and serviced calipers with new o-rings p/n: MS28775-224 and reinstalled calipers onto the wheels. Reinstalled brake pads and the LH Tire to the axle. Bled the brakes on both master cylinders. Reinstalled wheel fairings on both wheels. All work performed IAW Diamond DA-40 Maintenance Manual.

Robert Williams
Airframe Certificate #: 3952612

Robert Williams



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N654MS
wo 24045

8/18/17


Tach reads: 2319.5 AFTT: 2319.5

Complied with an Annual inspection in accordance with FAR 43 appd D. Opened all panels. Lubricated aircraft. Cleaned and serviced induction air filter. Complied with an ELT inspection in accordance with FAR 91.207(d). No defects noted. Battery due 12-2024. Complied with Powerflow Exhaust system ICA. Checked and set nose wheel casting force. Removed and replaced lower comm antenna p/n DMC63-2. Ops checks OK. Complied with AD 2015-19-07 in accordance with Lycoming SB342G. No defects noted. Next due at 2419.5 AFTT. Removed, cleaned, primed and painted nosewheel pant. Repaired LH flap ground strap. Cleaned and painted RH and LH wing OB access panels. Installed new canopy seal. Ground run and leak check OK.

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

Wayne C. Newton

Wayne C. Newton AP 3450425 IA



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N654MS
wo 24639


9/11/17

Tach reads: 2345.3 AFTT: 2345.3

Removed and replaced shattered right hand rear nav light bulb, PN A508-28. Ops check OK.

Dirk van den Brink, Jr.
A&P 3637044

Dirk van den Brink, Jr.



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N654MS
wo 25705


11/5/2017

Tach reads: 2389.5 AFTT: 2389.5

Jacked aircraft and removed RH main wheel assembly. Disassembled and inspected wheel. Installed new tire Condor 15X6-00-6 p/n 072-449-0 with new tube p/n 097-500-0 and reassembled wheel. Reinstalled wheel assembly on aircraft. Removed aircraft from jacks.

William Rickard AP2960804

William Rickard



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N654MS
wo 26592

1/18/17

Tach reads: 2419.6 AFTT: 2419.6

Complied with a 100 hour inspection in accordance with FAR 43 appd D. Opened all panels. Lubricated aircraft. Cleaned and serviced induction air filter. Complied with Powerflow Exhaust system ICA. Checked and set nose wheel casting force. Complied with AD 2015-19-07 in accordance with Lycoming SB342G. No defects noted. Next due at 2519.5 AFTT. Repaired affected area on top cowling at enlarged fastener. Painted with color and installed cowling fastener. Removed flap indicator assembly and installed new lamp. Reinstalled assembly. Ops checks OK. Installed new left and right brake linings p/n 066-14100 and new discs Ground run and leak check OK.

I certify that this aircraft has been inspected in accordance with a 100 hour inspection was found to be airworthy.

William Rickard

William Rickard AP2960804

SIGNATURE LICENCE NUMBER


CARRIED FORWARD

ENGINEERING RECORDS

CORD
AS REQUIRED FOR COMPLETE ENTRIES.

| | |
|----|-------------------|
| RE | LICENCE NUMBER |
|----|-------------------|

This image shows a blank sheet of white paper with horizontal blue or grey ruling lines. A single vertical line runs down the left side of the page, creating a margin. There are approximately 10 horizontal lines spaced evenly apart. The paper appears to be from a notebook or a standard writing template.This image shows a blank sheet of white paper with horizontal blue or grey ruling lines. A single vertical line runs down the center of the page, creating two equal-width columns. On the right side of the page, there are two small, faint circular marks, possibly punch holes or artifacts from the scanning process. The paper appears to be part of a notebook or binder.[illegible]


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N654MS
wo 30827

Tach reads: 2519.2 AFTT:2519.2

17 August 2018

Complied with an Annual inspection in accordance with 14 CFR 43 appendix D. Opened all panels. Lubricated aircraft. Cleaned and serviced induction air filter. Complied with an ELT inspection in accordance with FAR 91.207(d). No defects noted. Battery due 12-2024. Complied with Powerflow Exhaust system ICA. No defects noted. Checked and set nose wheel castering force. Removed and replaced transponder antenna p/n CI-105. Repaired loose lock on oil service door. Corrected wiring on EGT 1 and 3. Replaced missing and damaged fasteners in engine baffling. Applied new sealant to the bases of all antennas. Repaired bonding straps on flap controls under rear seats. Replaced missing fasteners in right wingtip and nose wheel pant. Rotated tires on rims to even out wear. Performed corrosion control on and repainted all landing gear legs. Filled and painted chips in paint along the leading edges of both wings. Repaired switches in two of the interior overhead map lights, replaced bulb in third map light. Installed new non-skid walkway material on left wing. Replaced trim switch in pilot's control stick. Ground run and leak check OK. I certify that this aircraft has been inspected in accordance with an Annual inspection was found to be airworthy.


Dirk van den Brink, Jr. A&P 3637044 IA

CARRIED FORWARD

AIR TIME AND

ENGINEERING RECORD

21

DATE

BROUGHT
FORWARD

3. Form Tracking Number:

SI175930

5. Work Order/Contract/Invoice

N/A

11. Status/Work:

NEW



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N654MS
WO 12904

6/17/19

Tach reads: 2692.1

Jacked aircraft and removed LH main wheel assembly. Disassembled and inspected wheel. Cleaned and inspected wheel bearings. Packed wheel bearings. Installed new 15X600-6pr tire and reassembled wheel. Installed new brake linings p/n RA66-14100. Reinstalled wheel assembly on aircraft. Removed aircraft from jacks. Work performed by Sean Ennis and supervised and inspected by the undersigned.

Dirk Van den Brink AP 3637044

[Signature]



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N654MS
WO 37493

8/2/19

Tach reads: 2730.2

DA-40 nav light hardware stuck. Cut and drilled out crew. Installed new lamp p/n A50828. Ops check OK.

William Rickard AP2960804

[Signature]



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N654MS
WO 38090
12/19/19

Tach reads: 2744.7 AFTT: 2744.7

Complied with an Annual inspection in accordance with 14 CFR 43 Appendix D. Opened all panels, fairings, and interior components as required to facilitate inspection. Inspected fuselage, wings, tail surfaces, cabin, cockpit, landing gear, and all related systems. Serviced and lubricated components and systems as required. Complied with an ELT inspection IAW 14 CFR 91.207(d). No discrepancies noted. ELT battery due 12/2024. Aft passenger door safety latch was lubricated. Pilot canopy lock was removed and replaced with p/n 623062454, 3802-0022. Baffling fastener under cylinders #2 and #4 was replaced. Fuel pressure sender adel clamp was replaced with new Adel clamp and silicone tape. Baffling at cylinder #3 was repositioned. Right wing flap removed for installation of new p/n MB01-55, LN9037-M5X24, and DA4-5751-00-62MOD. Left wing flap removed for installation of new p/n LN9037-M5X24, DA4-5751-00-62MOD, and DI1481-1.5X10-A2. Left wing was removed, roller cage assembly p/n DS-RG3 was installed, and wing was re-installed. Seat airbag system was removed and replaced with new p/n 509667-217 and new EMA module p/n 508358-421. Complied with G1000 and GFC700 ICAs, and installed 5 p/n AGC 3.2A. RH wing bulb holder screw hole repaired. Left wing-tip nutplate repaired. Closed all panels, fairings, and interior components opened for inspection; ground run and leak check OK. I certify that this aircraft has been inspected in accordance with an Annual inspection was found to be airworthy.

Dirk van den Brink, Jr. A&P 3637044 IA

[Signature]



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N654MS
WO 44305
Date: 20 March 2020

Tach reads: 2774.50

Bled right side brake system. Adjusted elevator trim damper tension in accordance with Diamond DA-40-180 maintenance manual. Re-attached right hand wing stub seal strip with trim adhesive.

Dirk van den Brink, Jr. A&P 3637044

[Signature]

FOR COMPLETE



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N654MS
WO 45761
5/15/2020

Tach reads: 2791.90

Jacked aircraft and removed RH main wheel assembly. Disassembled and inspected wheel. Installed new 15X600-6pr tire and reassembled wheel. Reinstalled wheel assembly on aircraft. Removed aircraft from jacks.

Work performed by Glenn Cleveland and supervised by the undersigned.

[Signature]

Dirk van den Brink, Jr. A&P 3637044



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N654MS
WO 51476
Date: 18 Sept 2020

Tach reads: 2850.1 AFTT: 2850.1

Complied with a 100 Hour inspection in accordance with 14 CFR 43 Appendix D. Opened all panels, fairings, and interior components as required to facilitate inspection. Inspected fuselage, wings, tail surfaces, cabin, cockpit, landing gear, and all related systems. Serviced and lubricated components and systems as required. Replaced nose gear shock rubbers with 5 each of P/N DA4-9032-23-01. Replaced both main gear brake discs with P/N RA164-024400 and all four brake linings P/N 066-14100. Removed, disassembled, cleaned, and installed new seals and o-rings in both pilot side brake master cylinders. Replaced several faded exterior placards. Closed all panels, fairings, and interior components opened for inspection. I certify that this aircraft has been inspected in accordance with a 100 Hour inspection and was determined to be in airworthy condition.

[Signature]

William A. Rickard A&P 2960804



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N654MS
WO 52045
Date: 29 Sept. 2020

Tach reads: 2855.00

Complied with Diamond Service Bulletin OSB 40-069 "Coated Safety Walk".

William Rickard A&P 2960804

[Signature]



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N654MS
WO 56321
Date: 21 Dec 2020

Replaced inline fuse for pilot side rudder pedal adjustment. Installed new G1000 emergency battery pack. Replaced A509-28 bulb in right hand position light.

[Signature]

Dirk van den Brink, Jr. A&P 3637044

SIGNATURE

LICENCE
NUMBER

AIR TIME AND

21

3. Form Tracking Number:

SI175930

5. Work Order/Contract/Invoice

N/A

11. Status/Work:

NEW

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N654MS
wo 12904

6/17/19

Tach reads: 2692.1

Jacked aircraft and removed LH main wheel assembly. Disassembled and inspected wheel. Cleaned and inspected wheel bearings. Packed wheel bearings. Installed new 15X600-6pr tire and reassembled wheel. Installed new brake linings p/n RA66-14100. Reinstalled wheel assembly on aircraft. Removed aircraft from jacks. Work performed by Sean Ennis and supervised and inspected by the undersigned.

Dirk Van den Brink AP 3637044

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N654MS
wo 37493

8/2/19

Tach reads: 2730.2

DA-40 nav light hardware stuck. Cut and drilled outs crew. Installed new lamp p/n A50828. Ops check OK.

William Rickard AP2960804

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N654MS
wo 38090
12/19/19

Tach reads: 2744.7 AFTT: 2744.7

Complied with an Annual inspection in accordance with 14 CFR 43 Appendix D. Opened all panels, fairings, and interior components as required to facilitate inspection. Inspected fuselage, wings, tail surfaces, cabin, cockpit, landing gear, and all related systems. Serviced and lubricated components and systems as required. Complied with an ELT inspection IAW 14 CFR 91.207(d). No discrepancies noted. ELT battery due 12/2024. Aft passenger door safety latch was lubricated. Pilot canopy lock was removed and replaced with p/n 623062454, 3802-0022. Baffling fastener under cylinders #2 and #4 was replaced. Fuel pressure sender adel clamp was replaced with new Adel clamp and silicone tape. Baffling at cylinder #3 was repositioned. Right wing flap removed for installation of new p/n MB01-55, LN9037-M5X24, and DA4-5751-00-62MOD. Left wing flap removed for installation of new p/n LN9037-M5X24, DA4-5751-00-62MOD, and DI1481-1.5X10-A2. Left wing was removed, roller cage assembly p/n DS-RG3 was installed, and wing was re-installed. Seat airbag system was removed and replaced with new p/n 509667-217 and new EMA module p/n 508358-421. Complied with G1000 and GFC700 ICAs, and installed 5 p/n AGC 3.2A. RH wing bulb holder screw hole repaired. Left wing-tip nutplate repaired. Closed all panels, fairings, and interior components opened for inspection; ground run and leak check OK. I certify that this aircraft has been inspected in accordance with an Annual inspection was found to be airworthy.

Dirk van den Brink, Jr. A&P 3637044 IA

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N654MS
wo 44305
Date: 20 March 2020

Tach reads: 2774.50

Bled right side brake system. Adjusted elevator trim damper tension in accordance with Diamond DA-40-180 maintenance manual. Re-attached right hand wing stub seal strip with trim adhesive.

Dirk van den Brink, Jr. A&P 3637044

FOR COMPLETE

EPIX AVIATION

Tach reads: 2791.90

Jacked aircraft and removed RH main wheel assembly. Disassembled and inspected wheel. Cleaned and inspected wheel bearings. Packed wheel bearings. Installed new 15X600-6pr tire and reassembled wheel. Installed new brake linings p/n RA66-14100. Reinstalled wheel assembly on aircraft. Removed aircraft from jacks.

Work performed by Glenn Cleveland

Dirk van den Brink, Jr. A&P 3637044

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N654MS
wo 51476
Date: 18 Sept 2020

Tach reads: 2850.1 AFTT: 2850.1

Complied with a 100 Hour inspection in accordance with 14 CFR 43 Appendix D. Opened all panels, fairings, and interior components as required to facilitate inspection. Inspected fuselage, wings, tail surfaces, cabin, cockpit, landing gear, and all related systems. Serviced and lubricated components and systems as required. Replaced nose gear shock rubbers with 5 each of P/N DA4-9032-23-01. Replaced both main gear brake discs with P/N RA164-024400 and all four brake linings P/N 066-14100. Removed, disassembled, cleaned, and installed new seals and o-rings in both pilot side brake master cylinders. Replaced several faded exterior placards. Closed all panels, fairings, and interior components opened for inspection. I certify that this aircraft has been inspected in accordance with a 100 Hour inspection and was determined to be in airworthy condition.

William A. Rickard A&P 2960804

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N654MS
wo 52045
Date: 29 Sept. 2020

Tach reads: 2855.00

Complied with Diamond Service Bulletin OSB 40-069 "Coated Safety Walk".

William Rickard A&P 2960804

EPIX AVIATION

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Chesapeake, Virginia 23323
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N654MS
wo 56321
Date: 21 Dec 2020

Replaced inline fuse for pilot side rudder pedal adjustment. Installed new G1000 emergency battery pack. Replaced A509-28 bulb in right hand position light.

Dirk van den Brink, Jr. A&P 3637044

DATE 3-12-20 AC HRS 2766.4 N654MS

I CERTIFY THAT THE ALTIMETER, ALTITUDE REPORTING AND STATIC SYSTEM TESTS REQUIRED BY CFR 91.411 HAVE BEEN PERFORMED. TESTS WERE PERFORMED TO 20,000 FT.

ALT. 3-12-20 DATE

ENCODER 3-12-20 DATE

STATIC SYSTEM 3-12-20 DATE

THIS ATX 33 TRANSPONDER S/N 89105-056 HAS BEEN TESTED AND FOUND TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF CFR 91.413(PART 43 APP F).

DATE 3-12-20

SIGNED Ron W. Gulpepper INSPECTOR
BAY AVIONICS, LTD. HM1R197K

LICENCE
NUMBER

AIR TIME AND

ENGINEERING RECORD

EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 57384
Date: 29 Jan 2021

Tach reads: 2912.3 AFTT: 2912.3

Complied with an ANNUAL inspection in accordance with 14 CFR 43 Appendix D. Opened all panels, fairings, and interior components as required to facilitate inspection. Inspected fuselage, wings, tail surfaces, cabin, cockpit, landing gear, and all related systems. Serviced and lubricated components and systems as required. Complied with an ELT inspection in accordance with 14 CFR 91.207(d). No discrepancies noted. ELT battery due December 2024. Cleaned and re-torqued bolts on nose fork stops, re-set castering force. Tightened loose bolt on left flap at inboard end at torque tube. Repaired bonding straps on right flap bellcrank. Replaced tailpipe glass pack on PowerFlow exhaust. Complied with Garmin G1000 ICAs, no discrepancies noted. Closed all panels, fairings, and interior components opened for inspection. I certify that this aircraft has been inspected in accordance with an ANNUAL inspection and was determined to be in airworthy condition.

Dirk van den Brink, Jr. A&P IA 3637044

EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo:57744
2/9/2021

Tach reads: 2915.6

Removed and replaced right hand position light with pn: A508-28.

Work performed by Glenn Cleveland, supervised, and inspected by the undersigned.

Dirk van den Brink, Jr. AP 3637044

EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 59320
4/3/21

Tach reads: 2933.8

Jacked aircraft and removed RH main wheel assembly. Disassembled and inspected wheel. Cleaned and inspected wheel bearings. Packed wheel bearings. Installed new 15X600-6pr tire and reassembled wheel. Installed new brake linings p/n RA66-14100. Reinstalled wheel assembly on aircraft. Removed aircraft from jacks. Work performed by Zach Parkman and supervised and inspected by the undersigned.

James E. Parkman AP3270184

EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 60570
Date: 17 May 2021

Tach reads: 2850.7 AFTT: 2850.7

Complied with a 100 Hour inspection in accordance with 14 CFR 43 Appendix D. Opened all panels, fairings, and interior components as required to facilitate inspection. Inspected fuselage, wings, tail surfaces, cabin, cockpit, landing gear, and all related systems. Serviced and lubricated components and systems as required. Replaced all four brake linings P/N 066-14100. Installed new bearings and races in the LH main wheel. Installed new tire on the LH main wheel. Cleaned and treated minor corrosion on rudder fixed tab. Closed all panels, fairings, and interior components opened for inspection. I certify that this aircraft has been inspected in accordance with a 100 Hour inspection and was determined to be in airworthy condition.

William A. Rickard A&P 2960804

CORD
AS REQUIRED FOR COMPLETE

EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 63601
Date: 08/10/2021

Tach reads: 3045.3

Jacked aircraft and removed RH main wheel assembly. Disassembled and inspected wheel. Cleaned and inspected wheel bearings. Packed wheel bearings. Installed new 15X600-6pr tire and reassembled wheel. Removed and replaced RH brake linings p/n RA66-14100. Removed LH wheel pant and bracket and remainder of right hand bracket. Reinstalled wheel assembly and linings on aircraft. Removed aircraft from jacks.

Work performed by Glenn Cleveland. Supervised and inspected by the undersigned.

Dirk van den Brink, Jr. AP 3637044

EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 65400
10/4/21

Tach reads: 3093.7

Jacked aircraft and removed LH main wheel assembly. Disassembled and inspected wheel. Installed new 15X600-6pr tire and reassembled wheel. Reinstalled wheel assembly on aircraft. Removed aircraft from jacks. Work performed by Glen Cleveland and supervised and inspected by the undersigned.

James E. Parkman AP 3270184

EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 63926
Date: 8-31-21

Tach reads: 3051.6 ETT: 3051.6

Complied with a 100 HOUR inspection in accordance with 14 CFR 43 Appendix D. Opened all cowls, fairings, and other components as required to facilitate inspection. Drained oil, inspected oil filter, no defects noted. Installed new AA48110-2 oil filter and serviced with 7qts Phillips X/C Aviation 20W50 oil. Compressions with 80psi input pressure are as follows: 70/76/70/60. Checked magneto timing. Cleaned, gapped, and rotated spark plugs. Replaced one spark plug. Complied with AD 2015-19-07 "Fuel injector fuel lines" in accordance with Lycoming Service Bulletin SB342G. No discrepancies noted. Next due at 3151.6 tach time. Run up and leak checked engine after inspection and service, no discrepancies noted. Reinstalled all cowls, fairings, and other components previously removed to facilitate inspection.

I certify that this engine has been inspected in accordance with a 100 HOUR inspection and was determined to be in airworthy condition.

Dirk Van den Brink AP 3637044

EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 63926
Date: 8-31-21

Tach reads: 3051.6 AFTT: 3051.6

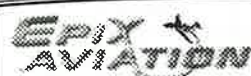
Complied with a 100 Hour inspection in accordance with 14 CFR 43 Appendix D. Opened all panels, fairings, and interior components as required to facilitate inspection. Inspected fuselage, wings, tail surfaces, cabin, cockpit, landing gear, and all related systems. Serviced and lubricated components and systems as required. Installed new jack pads p/n DV2-1200-02. Installed new lamp in RH nav light, p/n A508-28. Closed all panels, fairings, and interior components opened for inspection. I certify that this aircraft has been inspected in accordance with a 100 Hour inspection and was determined to be in airworthy condition.

Dirk Van den Brink AP 3637044

AIR TIME AND

DATE

BROUGHT
FORWARD



EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 65091
9/24/21

Tach reads: 3078.90

Cleaned the trim drag rod with alcohol, rig and test IAW DA-40-180 AMM 27-38-00 paragraph 3, subsection C.

Accomplished by G. Cleveland and supervised and inspected by the undersigned.

James E. Parkman AP 3270184

James E. Parkman



EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 66661
Date: 11/17/2021

Tach reads: 4078.70

Drained oil, removed and inspected filter. No discrepancies noted. Installed new AA48110-2 oil filter and serviced with 7qt Phillips XC 20W50 oil. Ran up and leak checked, no discrepancies noted.

William A Rickard A&P 2960894

William A Rickard



EPIX AVIATION, LLC
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 66952

Tach reads: 3112.70 AFTT: 3312.70
12/14/2021

Removed cowling, removed battery cover and battery. Installed battery part number RG24-15M, S/N41190045 and cover, re-cowled aircraft and ran. Operational checks good.

Work performed by Sean Ennis HB0003
Inspected by Jason Tyler Parris AP3562767

Jason Tyler Parris



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2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 67590
Date: 12/20/21

Tach reads: 3115.50

Removed left hand wingtip and troubleshot system. Found strobe tube inoperative. Replaced with new 02-0250276-00 strobe tube. Ops check good. Reinstalled wingtip.

Dirk van den Brink, Jr.

Dirk van den Brink, Jr. A&P 3637044

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE
NUMBER



EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 68865
Date: 23 Feb 2022

Tach reads: 3147.1 AFTT: 3147.1

Complied with an ANNUAL inspection in accordance with 14 CFR 43 Appendix D. Opened all panels, fairings, and interior components as required to facilitate inspection. Inspected fuselage, wings, tail surfaces, cabin, cockpit, landing gear, and all related systems. Serviced and lubricated components and systems as required. Complied with an ELT inspection in accordance with 14 CFR 91.207(d). No discrepancies noted. ELT battery due Dec 2024. Replaced SCAT-12 duct into and out of cabin heat muff. Replaced rivets on lower right side mount for lower cowl. Rotated right main tire on rim. Replaced left gear brake linings. Resealed rear passenger door window. Installed Garmin GDL-82 ADS-B out system in accordance with FAA Policy Memorandum, Installation Approval for ADS-B OUT Systems, dated March 2, 2016. Closed all panels, fairings, and interior components opened for inspection. I certify that this aircraft has been inspected in accordance with an ANNUAL inspection and was determined to be in airworthy condition.

Dirk van den Brink, Jr. A&P IA 3637044



EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 69996
3/19/22

Tach reads: 3163.3

Removed inoperative boost pump p/n 5100-00-9CJ s/n 4129 and installed p/n 5100-00-9CJ s/n 4487. Leak and ops checks OK.

James E. Parkman AP 3270184

James E. Parkman



EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo:70489
Date: 3/29/2022

Tach reads: 3167.0

Removed alternator and replaced alternator with P/N ALU-8521R, S/N H-V112010.

Work performed by Sean Ennis, supervised, and inspected by the undersigned.

James Parkman AP 3270184 IA

James E. Parkman

AIR TIME AND

ENGINEERING RECORD

DATE

BROUGHT
FORWARD



EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 65091
9/24/21

Tach reads: 3078.90

Cleaned the trim drag rod with alcohol, rig and test IAW DA-40-180 AMM 27-38-00 paragraph 3, subsection C.

Accomplished by G. Cleveland and supervised and inspected by the undersigned.

James E. Parkman AP 3270184

James E. Parkman



EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 66661
Date: 11/17/2021

Tach reads: 4078.70

Drained oil, removed and inspected filter. No discrepancies noted. Installed new AA48110-2 oil filter and serviced with 7qt Phillips XC 20W50 oil. Ran up and leak checked, no discrepancies noted.

William A Rickard A&P 2960894

William A Rickard



EPIX AVIATION, LLC
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 66952

Tach reads: 3112.70 AFTT: 3312.70
12/14/2021

Removed cowling, removed battery cover and battery. Installed battery part number RG24-15M, S/N41190045 and cover, re-cowled aircraft and ran. Operational checks good.

Work performed by Sean Ennis HB0003
Inspected by Jason Tyler Parris AP3562767

Jason Tyler Parris



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2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 67590
Date: 12/20/21

Tach reads: 3115.50

Removed left hand wingtip and troubleshoot system. Found strobe tube inoperative. Replaced with new 02-0250276-00 strobe tube. Ops check good. Reinstalled wingtip.

Dirk van den Brink

Dirk van den Brink, Jr. A&P 3637044

RED FOR COMPLETE

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

SIGNATURE

LICENCE
NUMBER



EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 68865
Date: 23 Feb 2022

Tach reads: 3147.1 AFTT: 3147.1

Complied with an ANNUAL inspection in accordance with 14 CFR 43 Appendix D. Opened all panels, fairings, and interior components as required to facilitate inspection. Inspected fuselage, wings, tail surfaces, cabin, cockpit, landing gear, and all related systems. Serviced and lubricated components and systems as required. Complied with an ELT inspection in accordance with 14 CFR 91.207(d). No discrepancies noted. ELT battery due Dec 2024. Replaced SCAT-12 duct into and out of cabin heat muff. Replaced rivets on lower right side mount for lower cowl. Replaced right main tire on rim. Replaced left gear brake linings. Resealed rear passenger door window. Installed Garmin GDL-82 ADS-B out system in accordance with FAA Policy Memorandum, Installation Approval for ADS-B OUT Systems, dated March 2, 2016. Closed all panels, fairings, and interior components opened for inspection. I certify that this aircraft has been inspected in accordance with an ANNUAL inspection and was determined to be in airworthy condition.

Dirk van den Brink, Jr. A&P IA 3637044



EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 69996
3/19/22

Tach reads: 3163.3

Removed inoperative boost pump p/n 5100-00-9CJ s/n 4129 and installed p/n 5100-00-9CJ s/n 4487. Leak and ops checks Ok.

James E. Parkman AP 3270184

James E. Parkman



EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EPIXAviation.com

N654MS
wo 70489
Date: 3/29/2022

Tach reads: 3167.0

Removed alternator and replaced alternator with P/N ALU-8521R, S/N H-V112010.

Work performed by Sean Ennis, supervised, and inspected by the undersigned.

James Parkman AP 3270184 IA

James E. Parkman

AIR TIME AND

DATE 04-05-2022 AC HRS 3177.5 N654MS

I CERTIFY THAT THE ALTIMETER, ALTITUDE REPORTING AND STATIC SYSTEM TESTS REQUIRED BY CFR 91.411 HAVE BEEN PERFORMED. TESTS WERE PERFORMED TO 20,000 FT.

ALT. 04-05-2022 DATE

ENCODER 04-05-2022 DATE

STATIC SYSTEM 04-05-2022 DATE

THIS ATX 83 TRANSPONDER S/N 89105006 HAS BEEN TESTED AND FOUND TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF CFR 91.413(PART 43 APP F).

DATE 04-05-2022

SIGNED Ronald W Culpepper Jr
INSPECTOR
RAY AVIONICS, LTD. HM1R197K



EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EpixAviation.com

N654MS
wo 72492
Date: 06/03/2022

Tach reads: 3227.4

Removed inop GMU44 P/N:011-00870-00 S/N:47508743 and installed overhauled GMU44 P/N:011-00870-00 S/N:47512795 overhaul work order #15859367 performed by Garmin International. Performed ops checks of GMU44-all ops checks good.

Jason Tyler Parris A&P#3562767



EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EpixAviation.com

N654MS
wo 72803
07 June 2022

Tach reads:3234.6

Removed and Replaced Right main tire with overhauled tire P/N 15x6.0-6 in accordance with Diamond DA40 maintenance manual.

Curtis Godfrey 3724609 AP

Curtis Godfrey

CARRIED FORWARD

ENGINEERING RECORD



EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EpixAviation.com

N654MS
wo 73219
Date: 7/27/2022

Tach reads: 3253.4 AFTT: 3253.4

Complied with a 100 Hour inspection in accordance with 14 CFR 43 Appendix D. Opened all panels, fairings, and interior components as required to facilitate inspection. Inspected fuselage, wings, tail surfaces, cabin, cockpit, landing gear, and all related systems. Serviced and lubricated components and systems as required. Inspected power flow exhaust per PFS-15250-00 Rev E. Removed RH tire and installed new tube P/N 15x6.0-6 reinstalled to aircraft. Repaired canopy latch on LH side of canopy. Installed new wing root seal P/N CUR. Removed RH brake caliper and rebuilt with new o-ring P/N MS28775-224 bleed brakes in accordance with DA-40 Maintenance manual. Installed new brake linings to RH gear P/N 66-141. Repaired bonding strap on rudder at bottom attach point. Closed all panels, fairings, and interior components opened for inspection. I certify that this aircraft has been inspected in accordance with a 100 Hour inspection and was determined to be in airworthy condition.

Zachary T. Parkman
Zachary T. Parkman A&P (Pending)



EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EpixAviation.com

N654MS
wo 75474
Date:12/29/2022

Tach reads: 3255.30 ETT: 3255.30

Removed and replaced inside latch p/n DA4-5210-70-00-03. Installed new outside handle p/n DIN1481-2X16 and new hardware as needed. Lubricated rear door safety latch. Removed lower fin repaired and reinstalled with new skid p/n DA4-5183-00-61. Replaced emergency backup battery p/n DA42560-91-00 in accordance with Diamond DA40-180 AMM Chapter 4 Airworthiness Limitations, para 1B "Replacement Requirements". Battery expiration 2-2032.

William Rickard
William Rickard A&P 2960804



EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EpixAviation.com

N654MS
Date: 5/18/23

Tach reads: 3257.9

I have inspected this aircraft and found it safe for a one-time ferry flight from KCPK to KPVG.

William Rickard AP 2960804

William Rickard

It is important to understand that the existence of this document alone does not constitute an airworthiness authority. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority of a country, the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the user/installer before the aircraft may be flown. Statements in Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must be maintained in accordance with the national regulations of an airworthiness authority of a country.

WORK
DATE
TAB
Altitude
(feet)

AIR TIME AND

ENGINEERING RECORD

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

| DAILY TOTAL | | TOTAL AIR TIME SINCE MFG. | |
|-------------|------|---------------------------|------|
| HRS. | MIN. | HRS. | MIN. |

Make: Diamond Model: DA 40 N#: N654MS
 Ser#: 40.842 Aircraft Total Time: 3258.5 Tach:3258.5
 Inspected aircraft IAW Manufacturers Checklist Dated 04-13, Including 1,000 and 2,000 hour items. Cleaned, checked and lubed all controls. Serviced Brake reservoir with fluid as needed. Checked, serviced and charged battery. Cleaned, checked and lubricated landing gear. Removed, cleaned, prepped and painted screws for landing bezel. Replaced LT MLG tire and tube W/ new 15-6.0-6Ply, cleaned prepped and painted inboard wheel half for corrosion. Replaced NLG tire W/ new 5.00-5 6Ply tire and tube. Cleaned both MLG wheel brake caliper pins of corrosion. Cleaned, checked and lubed rudder hinges due to corrosion. All Ads checked to Biweekly update 2023-12, see list in logs. Run up, leak and OPS checks good.

"I certify that this Aircraft has been inspected IAW an annual inspection and found to be in an airworthy condition."

Date: 06/16/23

Thomas E. Kurtz III

Thomas E. Kurtz III A&P#141525863IA

TEK Aircraft service 942 Union Branch Road, Corapeake NC 27926

Make: ACK Model: E-01 N#: N654MS
 Ser#: 059041 Aircraft Total Time: 3258.5
 Inspected ELT IAW Far 91.207 (d), no defects noted. Battery due 12/24

Date: 06/16/23

Thomas E. Kurtz III

Thomas E. Kurtz III A&P#141525863IA

TEK Aircraft service 942 Union Branch Road, Corapeake NC 27926

CARRIED FORWARD

ENGINEERING RECORD

25

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

SIGNATURE

LICENCE NUMBER

Make: Diamond Model: DA 40 N#: N654MS
 Ser#: 40.842 Aircraft Total Time: 3358.0 Tach:3358.0
 Inspected aircraft IAW Manufacturers Checklist Dated 04-13. Cleaned, checked and lubed all controls. Serviced Brake reservoir with fluid as needed. Checked, serviced and charged battery. Cleaned, checked and Greased all wheel bearings. Cleaned, checked and lubed rudder hinges due to corrosion. All Ads checked to Biweekly update 2024-06, see list in logs. Run up, leak and OPS checks good.

"I certify that this Aircraft has been inspected IAW an annual inspection and found to be in an airworthy condition."

Date: 03/29/24

Thomas E. Kurtz III

Thomas E. Kurtz III A&P#141525863IA

TEK Aircraft service 942 Union Branch Road, Corapeake NC 27926

Make: ACK Model: E-01 N#: N654MS
 Ser#: 059041 Aircraft Total Time: 3358.0
 Inspected ELT IAW Far 91.207 (d), no defects noted. Battery due 12/24

Date: 03/29/24

Thomas E. Kurtz III

Thomas E. Kurtz III A&P#141525863IA

TEK Aircraft service 942 Union Branch Road, Corapeake NC 27926

09/01/24 Replaced both MLG Brake linings w/ Newcrafts.
 TAL 3443.4 4741198

Make: Diamond Model: DA 40 N#: N654MS
 Ser#: 40.842 Aircraft Total Time: 3456.9 Tach:3456.9
 Inspected aircraft IAW Manufacturers Checklist Dated 04-13. Cleaned, checked and lubed all controls. Serviced Brake reservoir with fluid as needed. Checked, serviced and charged battery. All AD's checked to Biweekly update 2024-20, see list in logs. Run up, leak and OPS checks good.

"I certify that this Aircraft has been inspected IAW an Annual inspection and found to be in an airworthy condition."

Date: 10/15/24

Thomas E. Kurtz III

Thomas E. Kurtz III A&P#141525863

TEK Aircraft service 942 Union Branch Road, Corapeake NC 27926

IFR Due: 4/29/2026

AIR TIME AND

[illegible]

| | | |
|-----------------------|-----------------------------|-----------------------------|
| Reg No: N654MS | Aircraft Type: DA-40 | Aircraft S/N: 40.842 |
| AFTT: 3502.5 | Hobbs: 4828.5 | Engine TT: 1734.2 |

1. **Performed 2000-hour inspection IAW Diamond MM; 05-28-50.** Removed wings from aircraft and pulled fuel tanks, examined fuel tanks for leaks, reinstalled fuel tanks after weld repair, measured toe and camber of main landing gear. Performed tap test on top on bottom of wing structure. Examined wing bolts and lubricated with Aeroshell 22 upon reinstallation. Removed and installed flap and Aileron push rods after examination. Reinstalled wings and leak checked fuel tanks. Performed operational check of all flight controls, operational checks of exterior lighting and Pitot heat. Performed engine runs and operational checks of all engine systems. No defects noted for the work performed.
2. **Performed MSI inspection IAW Diamond MM; 05-28-50.** Performed tap test of top and bottom fuselage shells, inspected inner skin of vertical stabilizer, removed and inspected inner skin of horizontal stabilizer. Inspected inner structure of rear fuselage. Inspected inner wing skin with fuel tanks removed. Installed horizontal stabilizer and confirmed rigging of elevator.
3. **Performed essential buss inspection IAW Dimond MM; 24-00-00.** Checked and confirmed proper function of Essential bus switch and wires associated for chaffing and proper installation.
4. **Performed 1000-hour electrical bonding check IAW Diamond MM; 51-80-00.**
5. **AD-2024-19-08;** Complied with by installation of new nose landing gear leg P/N: **D41-3223-10-00_2-ASY.** No further action required, this part replacement is terminating the actions required by paragraph (h)(1) of this AD.
6. **AD-2014-13-08;** Complied with AD by performing inspection and installation of aft main spar stiffener per para. 4(i) of this AD and following INSTRUCTIONS section of Diamond Aircraft Industries GmbH Work Instructions WI-MSB 40-074, WI-MSB D4-094, and WI-MSB F4-028 (co-published as a single document), dated May 10, 2013, as specified in Diamond Aircraft Industries GmbH Mandatory Service Bulletins (MSB) 40-074, D4-094, and F4-028 (co-published as a single document), dated May 10, 2013. no further action is required.
7. **Performed hard landing check due to excessive bend and negative camber in LH and RH struts in accordance with 05-50 in the diamond maintenance manual.** Removed and replaced both main gear legs due to excessive bending. Installed serviceable RH gear strut PN: **D41-3213-12-50-1** and serviceable LH gear strut PN: **D41-3213-11-50-1.** Installed in accordance with diamond maintenance manual 32-10-00. Shimmed and adjusted camber and toe as necessary.
8. **Installed new ACK E-04, SN: 050905** 406 MHZ ELT and the following components, **Antenna PN: E-04.8, Suppressor PN: E-04.10.1.12, Buzzer PN: E-04.7** and CR2 battery due every 10 years, **Panel switch PN: E-04.5** with 28L battery due every 10 years. ELT battery expires Aug, 2030. Operational check ok.
9. **Performed Garmin ICA's and installed new slow blow fuses.**
10. **Installed new brake rotors on both main gear PN: RA164-24400** and new brake linings PN: **RA066-14100.**
11. **Installed new bearings and races on all gear legs.** Nose race PN: **08231,** nose bearing PN: **08125,** Main race PN: **13836,** main bearings PN: **13889.**
12. **Resealed each caliper with MS28775-224 serviced with MIL PREF 5606** and bled brakes.
13. **Installed new grip tape on entry steps and painted.**
14. **Installed new Carpet kit from SCS interiors PN: 100220-2029,** see SCS W/O: **83760-01** for burn certs.
15. **Installed new Plenum G1000 filter PN: DA4-2163-10-02.**
16. **Installed new brake clamps PN: 420420_1.**
17. **Installed multiple new fuel vent and small interconnect hoses on RH middle and outboard tank PN: 110W016030.**
18. **Installed new sealant and O rings on fuel filler cap PN: DIN3771-85X6FPM.**
19. **Installed new O rings on both fuel tank drain valves PN: DA4-9028-17-03, PN: M25988-011.**
20. **Installed new NLG stop sheet PN: D41-3223-00-51.**
21. **Installed Pneumatic door damper on rear door PN: DA4-9052-00-11.**
22. **Installed new Concorde battery PN: RG24-15M.**
23. **Replaced multiple frayed bonding straps as needed on ailerons and flap pushrods.**
24. **Reglued rear window with new dam tape and diamond window sealant.**
25. **Made small patch on forward RH baffle.**
26. **Installed new wing root seal on both wings PN: DAI-9057-00-01.**
27. **Removed all existing Amsafe seat belt hardware and accessories, old Pilot and Copilot seat belts PN: 509871-401-8168.. Removed Pilot inflator PN: 508792-401,** removed Copilot inflator PN: **508792-40,** removed pilot and copilot seat belt latches PN: **7053-203.** Amsafe system is removed see 337 for documentation and an update has been made to weight and balance.
28. **Installed new seat belt latches Pilot, and Copilot PN: 05-01-1C5701.**
29. **Installed new Prop cable PN: DAI-9076-00-03.**
30. **Removed power flow exhaust and performed ICA's and Installed with new exhaust gaskets PN: LW19296,** hardware, and neoprene strap.
31. **Performed composite repair on bottom cowling next to exhaust.**
32. **Painted top cowling and replaced all fasteners with new.**
33. **Applied fire retardant paint to battery box, and top and bottom cowlings Item no.HENSOTHER2KS.**
34. **Installed interior seats with newly recovered upholstery, see burn certs from fiber new W/O: 1425.**
35. **Painted rudder below static wick due to maintenance induced surface level scratch.**
36. **Removed surface corrosion on engine mount next to #4 exhaust riser, primed and painted.**
37. **Installed new ground placard next to RH and LH step.**
38. **Applied touch up paint to various parts of leading edges of wings.**
39. **Performed weld repairs on RH wing middle fuel tank, leak checked and confirmed to not be leaking at time of repair.**
40. **Installed new engine SCAT tubing.**
41. **Performed fiberglass repair next to RH step and LH, crack was determined to only be in filler material. Crack was sanded down filled and painted.**
42. **Installed two new static wicks on LH wing tip, LH horizontal and RH horizontal PN: 16630.**
43. **Installed new induction filter PN: FR-08504.**
44. **Sealed and contoured LH aileron trailing edge with carbon fiber flox and resin.**
45. **Installed new bolts on elevator trim cover PN: LN9037-M4X16, DIN985-M4-A2**
46. **Installed two new EGT probes on #1 and #3 cylinders PN: A002BG-WIP.**
47. **Installed new emergency battery PN: DA4-2560-91-00.**
48. **Installed new RH arm rest PN: DA4-5210-50-92.**
49. **Installed new LH arm rest PN: DA4-5210-50-91**
50. **Installed new prop governor bolt PN: D41-6126-00-30.**
51. **Installed new decals from aero graphics W/O: 161261.**
52. **Resealed Pilot LH brake master cylinder reseal Kit PN: 199-516.**
53. **Replaced all G1000 knobs with new.**
54. **Performed composite repair on top cowling rear fastener.**
55. **Installed new chafe tape on vertical stab.**
56. **Removed and primed and painted aileron ground tab.**
57. **Reglued right side jack pad.**

Performed ground test and flight test, no defects noted for the work performed.

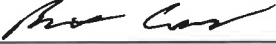
This aircraft, airframe, engine, propeller, or appliance identified was repaired and/or inspected in accordance with the current regulations of the Federal Aviation Administration and is approved for return to service for the work performed.

Airframe Logbook**Date: 10/14/2025**

| | | |
|---------------------------|-----------------------------|-----------------------------|
| Reg No: N654MS | Aircraft type: Diamond DA40 | Aircraft S/N: 40.842 |
| Tach: 3502.5 | Hobbs: 4828.5 | Aircraft Total Time: 3502.5 |
| Engine Total Time: 1734.2 | Engine SMOH: N/A | Engine S/N: RL3841-51E |
| Prop Total Time: 1634.7 | Prop SMOH: N/A | Prop S/N: NS1647B |

1. I certify that this aircraft has been inspected in accordance with an Annual Inspection and found to be in airworthy condition. Inspection performed in accordance with FAR 43 appendix D, using the Diamond DA-40 Maintenance Manual inspection guide as a reference.
2. New 406 ELT installed, ELT tested in accordance with 14 CFR 91.207, ops checked OK, ELT BATT EXPIRATION: 08/2030
3. Aircraft lubricated in accordance with AMM lube chart, lubricated the following items, brake pedal pivot, rudder cable S-tubes, flap extension rod, passenger door safety button, upper rudder pivot bearing, wing main bolts lubed with AERO 22 before install, elastomer eye was lubed, battery terminal ends lubed, B bolts and bearing, A bolts and bearings, brake pedal pivot shaft, flap actuator, brake caliper locating pins, stick support pivot pins, cable eyes on rudder, gascolator screen checked, no abnormalities noted.
4. Weight and balance updated to reflect removal of AMSAFE seat restraints STC for pilot and co-pilot seat, (see 337) and previously removed wheel pants which were not shown in any weight and balance corrections.
5. AD's checked through this date, all applicable have been complied with.
6. Complied with AD 2024-21-02 by visual inspection of oil filter and screens at annual oil change in accordance with Lycoming MSB 480F, no bronze colored metal or abnormalities noted. Effected parts are installed, NEXT DUE: at next oil change.
7. Complied with AD 15-19-07 – fuel injector - by visual inspection, next due after any maintenance is done involving fuel injector clamp is disconnected, moved, or loosened and within every 110 hours TIS, (TACH: 3612.50) and after each engine overhaul.

This aircraft, airframe, engine, propeller, or appliance identified was repaired and/or inspected in accordance with the current regulations of the Federal Aviation Administration and is approved for return to service for the work performed.

Date: 10/14/2025Signed: 

Robert Crawford AP/IA 3895252



THOROUGHbred AVIATION MAINTENANCE, INC.

4316 HANGAR DRIVE
LEXINGTON, KY 40510

CRS#R81R199Y

SYSTEM TEST DATE: 10-14-25 WORK ORDER: A25209TACH: _____ HOBBS: 4831.0

AIRCRAFT REG# N654MS AIRCRAFT SERIAL NUMBER: 40.842

AIRCRAFT MAKE/MODEL: DIAMOND AIRCRAFT DA 40

I HEREBY CERTIFY THAT THE ALTIMETER, ENCODER, AND STATIC SYSTEM TESTS/INSPECTIONS REQUIRED BY 14 CFR §91.411 HAVE BEEN PERFORMED AND MEET SPECIFICATIONS SET FORTH IN 14 CFR 43 APPENDIX E.

ADC TESTED TO 20,000 FEET

STBY ALTIMETER TESTED TO 20,000 FEET

I HEREBY CERTIFY THAT THE ATC TRANSPONDER TEST/INSPECTION REQUIRED BY 14 CFR §91.413 WAS PERFORMED AND FOUND TO COMPLY WITH FAR 43, APPENDIX F.

#1 TRANSPONDER MAKE: GARMIN MODEL NUMBER: GTX 33 SERIAL NUMBER: 89105006

TESTED BY:

Cert# 4136889