

AIRCRAFT SW # 400-44

# AIRCRAFT TECHNICAL LOGS

Section 1. AIRFRAME

1

Aircraft  
1

AIRCRAFT

1. Nationality and Registration \_\_\_\_\_ N544DS
2. Manufacturer's Designation \_\_\_\_\_ DA40
3. Manufacturer's Serial Number \_\_\_\_\_ 40044
4. Type Approval or Specification Number \_\_\_\_\_ A470E
5. Date of Manufacture \_\_\_\_\_ 2001
6. Aircraft Inspection Cycle \_\_\_\_\_



AIR TIME AND

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

BROUGHT FORWARD 7 6 Hours Brought Forward

**Diamond**  
Date: 21 August 2001 S/N 40044 Reg N044DS W08 RD-01-002 Hobbs 7.6  
TAF: 7.6

Aircraft wings, horizontal stabilizer, nose and MLG reassembled per Maintenance Manual after shipment from Austria. Aircraft De-preservation carried out per de-preservation check sheet WLP-09-05.  
Brake lines hooked up and brake bleeding carried out.  
Optional Type Certificate Ventilation Modifications defined by Diamond—  
Depg #4-2153-00-00 carried out.  
Ground run-up of engine performed. Found to be satisfactory.

The following SW and SI have been carried out as applicable:  
DAI SI 48-002 - Licensing Mandatory SW 548 - Engine Driven Fuel Pump replacement - N/A by SN.  
DAI SI 48-003 - Vision Microsystem VM1000, Capacitor check - N/A by SN of CPU.  
Biweekly AWD check carried out to current revision 2001-17.

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

DIAMOND AIRCRAFT INDUSTRIES D.O.T. APPROVAL #1791  
Signature: *[Signature]* Lic or Stamp: **DA RO-7**

I HAVE CARRIED OUT AN INDEPENDENT CHECK OF THE FLIGHT CONTROLS AFFECTED BY THE WORK ACCOMPLISHED.

Signature: *[Signature]* Lic or Stamp: **DA RO-7**

August 22, 2001

I find that this aircraft meets the requirements for the certificate requested and issued Standard Airworthiness Certificate dated August 22, 2001.

The next annual inspection is due August 2002.

*W.C. Ferrara*  
W.C. Ferrara FAA/DAR  
DART333002EA  
Rochester NY

*August 22/01* 7 6 AS OF THIS U.S. CURRENTLY EQUIPPED

7 6 CARRIED FORWARD

ENGINEERING RECORD

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

SIGNATURE LICENCE NUMBER

*Brought from previous logs*

**Diamond**

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

DATE INSPECTOR

August 21, 2001

*[Signature]* **DA RO-7**

**Diamond**

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

DATE INSPECTOR

August 21, 2001

*[Signature]* **DA RO-7**

**Diamond**

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

ANNUAL INSPECTION DUE: MARCH 2002  
BATTERY DUE: MARCH 2005

DATE INSPECTOR

August 21 2001

*[Signature]* **DA RO-7**

PHONED WITH MR BILL COFFMAN AIRMAILER #586 TX (414) 486-2920  
THE DAYTYPE ENTRY (L200) IS NO VALID. IS WAS PRESENT WITH WHEN AIRCRAFT WAS IMPORTED TO USA.  
REGS PART 257 & 259 FOR WHAT IS NEEDED FOR REC/ISS. IT IS UP TO THE PILOT TO DETERMINE.  
FURTHER, IF THIS ACFT WAS RESTRICTED, THE AIRWORTHINESS CERTIFICATE WOULD STATE "SEE REGS 23.1E". IT WOULD NOT SAY "DAY/VIS ONLY".  
*[Signature]*

CERTIFICATION THIS AIRCRAFT IS FOR DAY VFR ONLY.

*[Signature]* **DA RO-7**

ETC  
Annual Inspection

### AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD			7	6	

#### Diamond

Date: August 23, 2001. S/N: 48284. Reg # N544DS WOE RO-01-292  
Engine S/N: L29411-514 Prop S/N: Q5 198 TTDN: 7.8 Hobbs 7.8

Magnets replaced with New 2001 Manufactured Units per Union Industries Instructions and QJ 96  
New LH Mag Model 4771 removed S/N: 0007069  
New LH Mag installed Model 4771 S/N: 01001973  
RH Mag Model 4770 removed S/N: 00070781  
New RH Mag Model 4770 installed S/N: 01001980  
Engine to Mag timing adjusted. Ground run up of aircraft performed and found to be satisfactory.

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

DIAMOND AIRCRAFT INDUSTRIES D.O.T. APPROVAL # 161-93

Signature: *[Signature]* Lic. Or Stamp:

DATE	TRK	TYP	TIME	NOTE
AUG 23/01	6.2	6.2		NOTE: TIMES CORRECTED INSTEAD OF HOBBS READINGS

#### Diamond

Date: August 28, 2001. S/N: 48044. Reg # N5404R WOE RO-01-292  
TACH 6.2 TTDN: 8.2 Hobbs 8.2

The following Maintenance carried out  
OAT gauge Model 301F S/N: 4311 Removed  
OAT gauge Model 301C S/N: 4988 Installed  
Transponder KT 76A S/N: 127217 Removed  
Loaner Transponder KT 76A S/N: 127291 Installed  
Removed KINS GPS S/N: 2202  
Removed KI205 VORLOC indicator S/N: 71854  
Equipment list and Weight and Balance in Section 6 of A.F.M. amended  
New Empty Weight: 746.2 Kg  
Max. Permissible Weight: 1150 Kg  
New Useful Load: 403.8 Kg  
New Empty Weight C.G.: 2.437 m  
Empty Weight Moment: 1623.18 Kg m  
Note: as of this date the Aircraft Times recorded are the same as Tech Readings.

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

DIAMOND AIRCRAFT INDUSTRIES D.O.T. APPROVAL # 161-93

Signature: *[Signature]* Lic. Or Stamp:

CARRIED FORWARD

### ENGINEERING RECORD

1044 15244DS

Form 8130-3  
PMA Approved Tag  
Department of Transportation  
Federal Aviation Administration

2. System Tracking Reference Number: 5615

POSITION	9. Eligibility	10. Quantity	11.
4770	TBV by Installer	5	
4771	TBV by Installer	5	4770 (R4)
M3421	TBV by Installer	5	4771 (L4)

14. (b) Product Status: CANADA  
15. (b) Product Status: CANADA

16. FAA Administrator: DMRS0012ICE  
17. Date: 31-Jul-01

18. Authorized Signature: *[Signature]*  
19. Date of Installation: AUG 23/01

20. Name (Typed or Printed):  
21. Date:

**PMA Approved**  
Unauthorized use or reuse prohibited in accordance with terms of EMM73205 and in conformity with magnetic field applications based in Union Industries Forms 1, 105E and 2-approx. see L-1052.  
Serial Number and Date of Installation and return tag to:  
4770  
01061950  
RIG 23/01

**FAA-PMA Approved**  
This tag may only be used on manufactured items of new construction in accordance with terms of EMM73205 and in conformity with magnetic field applications based in Union Industries Forms 1, 105E and 2-approx. see L-1052.  
Unauthorized use or reuse prohibited in accordance with terms of EMM73205 and in conformity with magnetic field applications based in Union Industries Forms 1, 105E and 2-approx. see L-1052.  
Magnetic Model No.: 4771  
Magnetic Serial No.: C1061973  
Date of Installation: AUG 23/01

Airworthiness Approval Tag  
This tag may only be used on manufactured items of new construction in accordance with terms of EMM73205 and in conformity with magnetic field applications based in Union Industries Forms 1, 105E and 2-approx. see L-1052.  
Unauthorized use or reuse prohibited in accordance with terms of EMM73205 and in conformity with magnetic field applications based in Union Industries Forms 1, 105E and 2-approx. see L-1052.  
Instructions: U.S. GPO: 1994-974-708/94 264



AIR TIME AND

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



Avionics of  
MODERN AERO, INC.  
14801 PIONEER TRAIL  
EDEN PRAIRIE, MN 55347  
952-941-2885

FAA APPROVED REPAIR STATION  
NS44DS 1025/01

HOBBBS 15 0

REMOVED KX-125, FM-1000H, KT-76A, KL-208, KLM-04, AND KA-02  
INSTALLED GARMIN GMA-340, GNS-530, GNS-430, TWO GP-106AS,  
TWO GA-76A, GDC-327, CI-1125, CI-102, EM CS-2, AND MD41-1488  
PLACED FAA APPROVED FLIGHT MANUAL SUPPLEMENTS FOR  
THE GNS-530 AND GNS-430 G/S SYSTEMS SEE FAA FORM 537 FOR  
FURTHER DETAILS  
AVIONICS OF MODERN AERO, INC EDEN PRAIRIE, MN 55347  
CRS 05VR 353Y *Fred Deel* W/OW 2145



Avionics of  
MODERN AERO, INC.  
14801 PIONEER TRAIL  
EDEN PRAIRIE, MN 55347  
952-941-2885

FAA APPROVED REPAIR STATION  
NS44DS 1025/01

HOBBBS 35 0

REPLACED GXTS27 TRANSPONDER WITH NEW 801 83703664 RAMP  
TESTED SATISFACTORY  
AVIONICS OF MODERN AERO, INC EDEN PRAIRIE, MN 55347  
CRS 05VR 353Y *Fred Deel* W/OW 2127

July 17, 2002 Tard 580

- C/W SB No DSB 40-001 - APPLICABLE WORK
- W1-DAM-90-082 - INSTALLED INSTRUMENT BUS
- W1-DAM-90-067 - INSTALLED EMERGENCY BATTERY
- C/W SB N 0512 FA-05 - INSTALLED CAUTION GUARD
- REPLACED EXHAUST GASKETS WITH NEW P/N 7518

INSTRUCTIONS >  
BRIDGING WIRE, SHIELDING ON ECM ANTENNAS  
C SWITCH, RACK AND VISION DIMMER RESISTORS, NEW PLACED  
WORKS W/ W1-DAM-90-051



MODERN AERO, INC.  
14801 PIONEER TRAIL  
EDEN PRAIRIE, MN 55347  
952-941-2885

FAA APPROVED REPAIR STATION MZER188L  
NS44DS DATE: 6/12/02

HOBBBS 134.5

INSTALLED NEW MIXTURE CONTROL CABLE P/N A-1510-0866 NEW  
CABLE ASSEMBLY HAS TYPE B SWAGE ADJUSTED RIGGING AS  
NEEDED OPERATIONAL CHECK OK. REFERENCE MODERN AERO  
W/OW 30924-1 *Jo Autabaki A/P 478090540*

ENGINEERING RECORD

ENTRIES DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS	SIGNATURE	LICENSE NUMBER

*Jo Autabaki*  
Diamond Aircraft

AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
	HRS.	MIN.	HRS.	MIN.

ENGINEERING RECORD  
NOTE: USE BOTH PAGES AND AT MANY LINES AS REQUIRED FOR COMPLETION.

 MODERN AERO, INC.  
14801 PIONEER TRAIL  
EDEN PRAIRIE, MN 55347  
952-941-2595  
FAA APPROVED REPAIR STATION M2ER198L  
N544DS DATE: 6/26/02 TACH: 111.1

REMOVED EXHAUST ASSY. AND REPLACED WITH NEW EXHAUST ASSEMBLY PN DA-8-B S/N 15963-0005. GROUND RUN SATISFACTORY. REFERENCE MODERN AERO W/O #31007.

*Wendy* *AT 2676200*

 MODERN AERO, INC.  
14801 PIONEER TRAIL  
EDEN PRAIRIE, MN 55347  
952-941-2595  
FAA APPROVED REPAIR STATION M2ER198L  
N544DS DATE: 7/19/02 TACH: 176.9

CHANGED OIL AND FILTER. SERVICED WITH 8 QTS. EXXON 20W50. NO METAL IN OLD FILTER. BLN-UP LEAK CHECK OK. REFERENCE MODERN AERO W/O# 31080.

*Jon Fritsch*

 MODERN AERO, INC.  
14801 PIONEER TRAIL  
EDEN PRAIRIE, MN 55347  
952-941-2595  
N544DS DATE: 09/05/02 HOBBS: 193.3

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND A LIST OF DISCREPANCIES AND UNAIRWORTHY ITEMS DATED 09/06/02 HAVE BEEN PROVIDED FOR THE AIRCRAFT OWNER. PACKED WHEEL BEARINGS. SERVICED AIRCRAFT BATTERY. CLEANED MAIN FUEL SCREEN. SERVICED TIRES. CHECKED ELT IN ACCORDANCE WITH FAR 91.207(D). ELT BATTERY DUE 03/03. CLEANED OIL COOLER. TIGHTENED NOSE GEAR BUNOEE UPPER ATTACH POINT. REFERENCE MODERN AERO W/O# 31208.

*James A. Gelpy* *AT 2700047475A*

ENGINEERING RECORD

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

SIGNATURE LICENCE NUMBER

 MODERN AERO, INC.  
14801 PIONEER TRAIL  
EDEN PRAIRIE, MN 55347  
952-941-2595  
N544DS DATE: 9/13/02 HOBBS: 193.2

REPLACED THROTTLE CABLE WITH NEW AND RIGGED AS REQUIRED. RUN-UP AND OPERATIONAL CHECK SATISFACTORY. ALL UN-AIRWORTHY DISCREPANCIES LISTED AT ANNUAL DATED 9/6/02 COMPLETED AT THIS TIME. REFERENCE W/O 31238 AND 31235.

*AT 2676300*

CHANGED OIL + FILTER 12/05/02 HOBBS 225.0 *Wendy* #2425475  
CHANGED OIL + FILTER 5/11/03 HOBBS 264.0 *Wendy* #2425475

4/5/03 THIS ACFT HAS BEEN INSPECTED IAW WITH THE ANNUAL INSPECTION REQUIREMENTS OF DIAMOND DA-70 AMM DOC # 6-0201. INSTALLED NEW PLUGS; CLEANED INJECTORS; SCANNED BATT. BRAKES + WHEEL BEARINGS; CHANGED OIL + FILTER. CHECKED FLUID LEVELS + SERVICED TIRES. FUNCTIONAL TEST OK. ALT. HOBBS 292.0

CHANGED OIL + FILTER 1/2/04 HOBBS 312.5 *Wendy* #2425475

CHANGED OIL + FILTER 7/24/04 HOBBS 357.6 *Wendy* #2425475

9/18/04 THIS ACFT HAS BEEN INSPECTED IAW WITH THE ANNUAL INSPECTION REQUIREMENTS OF DIAMOND DA-70 AMM DOC # 6-0201. CLEANED CABLES + ROTATED PLUGS. BATT SERVICED. SERVICED FLUIDS + TIRES. NO BRAKES. CHANGED ELT BATT. HOBBS 363.5

CHANGED OIL + FILTER 10/21/04 HOBBS 375.0 *Wendy* #2425475

CHANGED OIL 5/12/05 HOBBS 401.6 *Wendy* #2425475



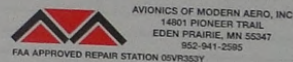
AIR TIME AND

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.	
9/23/05					THIS ACFT HAS BEEN INSPECTED AND THE ANNUAL INSP REQUIREMENTS OF DIAMOND DA-40 AMM DOCP 610201. CLEANED, GAPPED & ROTATED PLUGS. REPLACE FOUR UPPER PLUGS INSTALLED NEW PRIMARY AND EMERG BATTERIES. REPLACED & FUNC TEST OF ELT BATT. NEW EXPIRATION DATE 2012. EXPIRATION DATE OF EMERG BATT 2011. REPLACED MAIN TIRES & RECHECKED ALL WHEEL BEARINGS. COMPLIED WITH INSP REQUIREMENT FOR FUEL SELECTOR LINRAE. HOBBS 411.8
12/14/05					CHANGED OIL AND FILTER HOBBS 437.5
5/30/06					CHANGED OIL HOBBS 462.5
9/29/06					ACFT INSPECTED AND THE ANNUAL INSP REQUIREMENTS OF DIAMOND DA-40 DOCP 610201. CLEANED & GAPPED & ROTATED PLUGS. COMPLIED WITH INSP REQUIREMENT FOR FUEL SELECTOR LINRAE.
3/25/07					CHANGED OIL HOBBS 472.5
9/03/07					HOBBS 497.9 I certify that this aircraft has been inspected in accordance with an annual inspection & found to be airworthy. Sent logs - (log AD A030711-01 Fuel Selector AD: 14859) Joint NCR T Doc 547.9 HOBBS (log AD 0002-01-01 Fuel Selector LINRAE) NEXT DUE - NEXT ANNUAL - Paul Nolen At P-3154743 FA.

CARRIED FORWARD

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT		SIGNATURE	LICENCE NUMBER
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.			
9/03/07	HOBBS 497.9 - REMOVED WHEEL BEARINGS, CLEANED INSPECTORS, CLEANED, GAPPED & ROTATED PLUGS; REPLACED AIR FILTER; FUNCTIONAL TEST OF ELT; RECHECKED CRUISE SYSTEM COMPLAINS	<i>[Signature]</i>	2425475
6/4/08	HOBBS 525.4 CHANGED GNC OIL	<i>[Signature]</i>	2425475



AVIONICS OF MODERN AERO, INC  
14001 PIONEER TRAIL  
EDEN PRAIRIE, MN 55347  
952-941-2595

FAA APPROVED REPAIR STATION 08VR3537

N544DS DATE: 09/25/2008 HOBBS: 531.0

I certify that the transponder, and altitude reporter tests required by FARs 81.413, and 81.217 have been performed and found to be within limits of FAR 43 appendix E paragraph C & appendix F.  
Transponder model number: GTX327 S/N 83703664  
Altitude reporter model: D120-P2-T S/N 77738  
Adjusted encoder as necessary. Performed post-static leak check as required per DA40 AMM Ch. 4. Updated both GNS 530 and 430 databases, expires 23-OCT-08. Ramp checks satisfactory.  
Avionics of Modern Aero, Inc. Eden Prairie, MN 55347  
CRS05VR3537 W/O# 5722  
*[Signature]* Jared Rollzen



AIR TIME AND

Diamond DA-40  
S/N: 40044

NS44DS  
10-03-08

Tach: 477.2  
Hobbs: 531.0  
Act T.T.: 477.2

Completed the following Maintenance:

1. Performed an Annual Inspection referencing the Diamond DA-40 Maintenance Manual.
2. Researched AD's through the bi-weekly issue #2008-19f.
3. Performed the annual ELT Inspection in accordance with FAR 91.207(d). Removed and installed new ELT Batteries (P/N: MN1300), with an expiration date of Sep 2010. Complied with FAR 91.207(e), by marking the transmitter. Removed and installed a new ELT Phone Cord (P/N: RJ-116P4C). Operational checks found satisfactory.
4. Removed the L/H, R/H, and Nose Wheels. Removed, cleaned, inspected, greased with Aeroshell #5, and reinstalled all wheel bearings, no defects found. Reinstalled all wheels.
5. Cleaned and lubricated the aircraft as required.
6. Removed, cleaned, inspected, and reinstalled the Fuel Filter using a new o-ring, no defects found.
7. Removed, serviced, and reinstalled the Aircraft Batteries (P/N: PB28L).
8. Removed and installed a new ELT Remote Switch Battery (P/N: PB28L).
9. Removed and installed new Rudder Cables (P/Ns: CA1-1200, CA1-1060-WIP, CA1-1200-WIP, and CA1-4060) per Chapter 4 requirements. Operational check found to be satisfactory.
10. Replaced rivets in the ground strap on the cowl fastener and firewall seal for the map line.
11. Removed the Propeller (M/N: MTV-12-B/180-17; S/N: 02187) with 447.2 Total Time and installed a Propeller (M/N: MTV-12-B/180-17; S/N: 02187) with 765.7 Total Time, using a new o-ring. Run-up, leak, and operational checks found to be satisfactory.
12. Installed Revision 7 in the P.O.H., updated records as required.
13. Serviced the Brake Reservoirs with 5006 Fluid to the appropriate level.
14. Complied with AD 2007-11-21 by inspection of the Fuel Selector Shaft referencing Diamond MSB 40-0303, no defects noted. Next due at 527.2 ACTT.
15. Complied with AD 2007-17-06 by inspection of the Nose Gear referencing Diamond MSB 40-0461, no defects noted. Next due at 677.2 ACTT or Sept 2009, whichever occurs first.
16. Removed and installed new Emergency Batteries. Functional check found to be satisfactory. Placarded with the replacement date. Next replacement due Sep 2010.
17. Removed all the Reading Lights, cleaned the contact points and serviced with DC4 Compound, and reinstalled the lights. Operational check found satisfactory.
18. Removed and installed new Compass Light Bulb (P/N: 330). Operational check found satisfactory.
19. Cleaned and lubricated the Top Hinge Bearing for the Rudder using Aeroshell #5 Grease.
20. Adjusted the Elevator Trim Friction as needed. Operational check found to be satisfactory.
21. Complied with Diamond MSB 40-033 by visual inspection of the Exhaust Risers, no defects noted. Next due at 527.2 ACTT.
22. Complied with Diamond MSB 40-044 by installation of the Muffler Brace Kit (P/N: MSB-40-044-1).
23. Complied with Diamond MSB 40-054-1 by installation of reinforcement of the pilot, static and stall warning lines. Elongated the passage hole through the bulkhead and wrapped the lines. Secured with tie-wraps and edge protection.
24. Sealed the Middle Fin in the forward R/H NACA inlets using Marine 4000 Sealant.
25. Removed the R/H Elevator Tip and inspected the structure, no defects noted. Reinstalled the Elevator Tip and repaired the Attach Point using Marine 4000 Sealant.
26. Removed and installed a new Alternator Belt (P/N: 37A19773-376).

I certify that this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition and is approved for return to service. Pertinent details of this inspection are on file at this Repair Station under the work order listed.

Modern Aero, Inc.  
1480 Pioneer Trail  
Eden Prairie, MN 55347

Authorized Signature: *[Signature]*  
WOP: 3025 FAA CRS #MZER198L

CARRIED FORWARD

ENGINEERING RECORD

MAINTENANCE RECORD

Date	Page	1 of 1 Pages	Reg No:
10-30-2008			NS44DS
Aircraft: Diamond DA-40	Serial #:	40-044	Tach Time / H.M.: 498.3 / 553.6
#1 Prop: MTV-12-B/180-17	Serial #:	03038	Total time / TSO: 1268.6 / 0.0

The below listed items were accomplished in accordance with Diamond DA 40 Aircraft Maintenance Manual and other approved or acceptable data as applicable. Work order discrepancy numbers are shown in brackets [ ]

Work Order: PG-08-17932

- [001] Looser propeller p/n MTV-12-B/180-17, s/n 02187 removed and replaced with overhauled p/n MTV-12-B/180-17 s/n 03038 (Unit overhauled by MT-Propeller USA Inc. CRS # QAMR909Y WO # 08-415MT)

I certify that the above listed items have been completed, and with regard to the above items, that this Propeller has been approved for return to service.

Signed: *[Signature]*  
Central Flying Service, Inc.  
1501 Bond Street, Little Rock, AR 72202

MITCHELL AGENCY  
Phone: (501) 375-3245, (800) 838-5387

CRS No: HBKRS87E  
FAX: (501) 374-2150

N544DS  
Diamond DA40, S/N 40-044

Date: 1/8/09, Hobbs: 572.5, Total: 572.5

Installed overhauled DG, Mid-Continent P/N 3300-11. Re-wired cannon plug to conform to new instrument. See wiring print revision in aircraft files.

*[Signature]*  
Dale Rayment  
A&P3255309

AIRFRAME  
Reg: N544DS  
Model: DA 40  
S/N: 40-044  
W/O: MS-09-00552

MWAC  
Maintenance & Repair Center

Date: 31 July 2009  
Hobbs: 659.7  
Tach: 686.1  
ACTT: 686.1

- Performed the following to facilitate transportation and repair in reference to Diamond DA 40 Series AMM, Doc # 6-02-01, Rev. 5:
- 1) Removed both wings in reference to Chapter 57-1-00. Removed the rudder in reference to Chapter 55-40-00. Removed the horizontal stabilizer in reference to Chapter 55-10-00. Removed both main landing gear legs in reference to Chapter 32-10-00.
  - 2) Removed the engine (model IO-360-M1A, s/n L-2941-151A) for sudden-stoppage inspection in reference to Chapter 71-00-00.
  - 3) Removed the propeller (model MTV-12-B/180-17, s/n 03038, TSN 1376-4) in reference to Chapter 61-10-00.

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is not approved for return to service. Pertinent details are on file under the above work order.

Signed: *[Signature]*  
CRS #MTR576Y  
525 Turbine Ave, Chesterfield, MO (636)532-6155



AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		NOTE: USE BOTH PAGES AND X-MARKY LINES AS REQUIRED FOR COMPLETION
	HRS.	MIN.	HRS.	MIN.	

AIRFRAME

Reg: N544DS  
Model: DA 40  
SN: 40.044  
W/O: MS-09-00560



Date: 23 December 2009  
Hobbs: 659.7  
Tach: 606.1  
ACTT: 606.1

Removed, disassembled and cleaned the left and right brake calipers. Reassembled the brake calipers with new o-rings (p/n MS28775-224) with new (p/n 066-14100). Re-installed the brake assemblies on the aircraft. Bleed brakes and serviced reservoir.  
The aircraft, airframe, engine, propeller, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details are on file under the above work order.

Signed: *[Signature]*

CRS #M9TR576Y  
525 Turbine Ave, Chesterfield, MO (636)332-6155

AIRFRAME

Reg: N544DS  
Model: DA 40  
SN: 40.044  
W/O: MS-09-00620



Date: 23 December 2009  
Hobbs: 659.7  
Tach: 606.1  
ACTT: 606.1

- Inspected the right wing spar bridge and attach points in reference to DA 40 Series AMM Chapter 51-10-00. No damage found.
- Completed and submitted Diamond's Damage Report and Classification form for evaluation.
- Reinstalled the original left wing in reference to Diamond DA 40 Series AMM Chapter 57-10-00.
- Fit a new RH wing assembly (p/n DA4-57) 240000W/P, s/n CS0706428 and installed new spar bushings in reference to Diamond's instructions. Installation of Spar Bushings, RAM 40-076/b. Measured the wing dihedral and sweep and found to be within limits of the original left wing. Installed the original right fuel tanks in the new right wing in reference to DA 40 Series AMM Chapter 28-10-00.
- Installed the new right wing assembly in reference to DA 40 Series AMM 57-10-00.
- Adjusted the flaps in reference to DA 40 Series AMM 27-50-00. Operational check of the flaps was satisfactory.
- Adjusted the ailerons in reference to DA 40 Series AMM 27-10-00. Operational check of the ailerons was satisfactory.
- The new right wing assembly was painted by Jet Corp, CRS# DELR158D, under work order no. J1849.
- Reinstalled and serviced the main landing gear struts in reference to Diamond DA 40 Series AMM 32-10-00.
- Reinstalled the horizontal stabilizer in reference to DA 40 Series AMM 55-10-00. Operational check of the elevator and the elevator trim was satisfactory.
- Reinstalled the rudder in reference to DA 40 Series AMM 55-40-00. Operational check of the rudder was satisfactory.
- Reinstalled the engine (model 10-360-M1A, s/n 129411-51A) after inspection/repair by Poplar Grove Airmotive, CRS# YYBR664L, under work order no. 2085, in reference to DA 40 Series AMM 71-00-00.
- Installed a serviceable propeller (model MTV-12-B/180-17, s/n 02187, TSN 786 8 hrs) in reference to DA 40 Series AMM 61-00-00.
- Installed a repaired spinner dome (p/n B-045-1, s/n 071378).
- The upper and lower engine cowlings were sent to Poly-Fiber Enterprises, CRS# YXPR750X, for repair. The upper cowling was repaired under work order no. 5459 and the lower cowling was repaired under work order no. 5460. Reinstalled the cowlings.
- Removed and replaced the left and right wing root seals with new material (p/n 1110762).

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details are on file under the above work order.

Signed: *[Signature]*

CRS #M9TR576Y  
525 Turbine Ave, Chesterfield, MO (636)332-6155

CARRIED FORWARD

ENGINEERING RECORD

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

AIRFRAME

Reg: N544DS  
Model: DA 40  
SN: 40.044  
W/O: MS-09-00655



Date: 23 December 2009  
Hobbs: 659.7  
Tach: 606.1  
ACTT: 606.1

- Performed an annual inspection in reference to Diamond DA 40 Series AMM, Doc # 6.02.01, Rev. 3, Chapter 05-20-00.
- Complied with AD 2007-11-21, effective date 7/3/07, by inspection of the universal joints between the fuel selector handle and valve in accordance with Diamond MSB40-0303. No defects noted. Next inspection is due at 656.1 ACTT.
- Complied with AD 2009-10-04, effective date 6/17/09, by dye-penetrant inspection of the nose landing gear leg in accordance with Diamond MSB40-0469. No cracks noted. Next inspection is due at 606.1 ACTT or by Dec 2010.
- Removed the aircraft battery (p/n CB24-11M, s/n 40072725). Activated and installed a new battery (p/n RG24-15M, s/n 40302042).
- Removed and replaced the right wing safety walk with new (p/n DA1-5300-00-71).
- Inspected and functionally tested the EUT and found it meets the requirements of FAR 91.207(d).

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

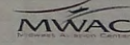
The aircraft, airframe, engine, propeller, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details are on file under the above work order.

Signed: *[Signature]*

CRS #M9TR576Y  
525 Turbine Ave, Chesterfield, MO (636)332-6155

AIRFRAME

Reg: N544DS  
Model: DA 40  
SN: 40.044  
W/O: MS-10-00706



Date: 12 February 2010  
Tach: 624.0  
ACTT: 624.0

- Adjusted the elevator trim control in reference to DA 40 Series AMM 27-38-00. Operational check of the elevator trim is satisfactory.
- Removed and replaced the right wing safety walk with new (p/n DA1-5300-00-71).
- Removed and disassembled the left main wheel assembly. Reassembled the wheel with a new tire (p/n 606C81B1, s/n 90147160). Serviced the tire with nitrogen and installed on the aircraft.
- Removed and disassembled the right main wheel assembly. Reassembled the wheel with a new tire (p/n 606C81B1, s/n 90137185). Serviced the tire with nitrogen and installed on the aircraft.

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details are on file under the above work order.

Signed: *[Signature]*

CRS #M9TR576Y  
525 Turbine Ave, Chesterfield, MO (636)332-6155

ENGINE

Reg: N544DS  
Model: 10-360-M1A  
SN: 1-29411-51A  
W/O: MS-10-00706



Date: 13 February 2010  
Tach: 624.0  
ACTT: 624.0  
ETT: 624.0

Drained the oil. Removed and replaced the filter with new (p/n CH48110-1). Inspected the oil filter and did not find any metal contaminants. Serviced the engine with Aeroshell TSW-50 oil. Performed an engine ground run, no leaks noted.

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details are on file under the above work order.

Signed: *[Signature]*

CRS #M9TR576Y  
525 Turbine Ave, Chesterfield, MO (636)332-6155



AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE REG.		ENGINEERING RECORD NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETION
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

Date: 6/4/2010 N544DS Midwest Aviation Services, Inc.

Tach/Hobbs: 703.9 ACTT:

Removed #1 com antenna P/NDM063-1/A S/N 38529, and installed new antenna P/N DMC03-1/A S/N 45621. Ground checked, found system to be functioning properly.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this repair station under Shop Order 8834 - 576.

SIGNATURE *[Signature]* for CRS MW8R657W

1-4-2011 TACH 0749.7 HOBBS 0800.1 AFTT 0749.7  
LUBED + INSPECTED AIRCRAFT  
REPLACED A/C BATTERY WITH  
NEW CONVOYN RE-24-15M  
REPLACED ELI BATTERIES WITH  
9EA NEW DURAKELL P/N M11300  
DATE DATED MARCH 2017.  
FLT WAS INSPECTED AS PER PAR  
91.307, PAR. (C)(1)-(4) C/W FOLLOWING  
AD 2007-11-21 FUEL SELECTOR SHAFT  
UNIVERSAL JOINT.  
AD 09-14-07 EXTERNAL FUEL IN-  
JECTION LINES  
ANNUAL INSPECTION WAS ACCOM-  
PLISHED CLEAR DIAMOND DA-410  
SERIES AMM, DOC # 6.02.01, REV 5.  
ALL ADS CHECKED THEN UPDATE  
300-96 FOR DETAILS OF ALL WORK  
PERFORMED, SEE LOG # 2011-101  
FROM LOST HILL AVIATION INC.  
*[Signature]*  
2013488 AHP

CARRIED FORWARD

(CONT.)

ENGINEERING RECORD

(CONT.)

DATE	TACH/HOBBS	ACTT	REPAIRS & REPLACEMENT	SIGNATURE	LICENCE NUMBER

REPAIRS & REPLACEMENT

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

REPAIRS & REPLACEMENT

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

REPAIRS & REPLACEMENT

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

REPAIRS & REPLACEMENT

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

Date: 9-28-11 N544DS Midwest Aviation Services, Inc.  
Tach/Hobbs: 883.8 PO Box 219 (270)744-8888 Ph  
ACTT: 200 Hardy Roberts Dr (270)744-3488 Fax  
West Paducah, KY 42086 midwest-aviation.com

Removed old electric boost pump p/n 5100-00-9 s/n 3572, installed overhauled electric boost pump p/n 5100-00-9 s/n 4148 operational test good no leaks noted this date. Inspected it and it brake linings no defects noted. Completed ignition leads high tension test no defects noted, regapped and tested all spark plugs, no defects noted.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this repair station under shop order 9775.

SIGNATURE *[Signature]* for CRS MW8R657W

Date: 11/11/2011 N544DS Midwest Aviation Services, Inc.  
Tach/Hobbs: 909.1 PO Box 219 (270)744-8888 Ph  
ENGTT: 200 Hardy Roberts Dr (270)744-3488 Fax  
SMDW: West Paducah, KY 42086 midwest-aviation.com

Removed #4 cylinder and reinstalled after repairs by G&N Aircraft. Drained oil, replaced #8 with new CH48110-1, serviced engine with Philips 20W50 Type M. Removed mag, check point gaps, internally timed magnetos, installed and timed to engine Laser T300 timing box all per LASAR L1500 Master service manual. Replaced right mag #2 ignition lead. Ran aircraft, ops check good. END.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this repair station under shop order 9846.

SIGNATURE *[Signature]* for CRS MW8R657W



Date: 2/21/12 N544DS **Midwest Aviation Services, Inc.**

Tach/Hobbs: 919.1 ACTT: 919.1

DATE  
BROU  
FORW

Completed annual inspection this date using Diamond Aircraft inspection form, chap. 5-28-00 for guidance.  
Left and right main tires replaced and balanced. Left and right brake disc and linings replaced. Installed bonding straps on flaps. Repaired wiring for cabin lights.  
Nose gear shock bushings replaced.  
Standby batteries replaced.  
AD2007-11-21 Fuel Selector inspected finding no discrepancies at this time.  
AD2009-10-04 Nose Gear inspection completed finding no discrepancies noted at this time.  
AD2010-25-01 Door Latch completed by installation of new bracket per MSB 40-070 Kit.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this repair station under Shop Order 10016.

SIGNATURE *[Signature]* AP4067233701A

*1/4 2012 TACH 0959.0 ACTT 0959.0  
CUL-AD 01-11-21 FUEL SELECTOR  
SHAFT UNIVERSAL JOINT - NO  
DEFECT FOUND. FOR DETAILS,  
SEE LOG # 2012-SL FROM JAMES  
AIRFRAME REPAIR  
END*

I certify that the altimeter and static system test required by FAR 91.411 have been performed. The Altimeter S/N 5934PD-3A was tested to 20K feet on 1/14/2013.

Signature *[Signature]* Date: 1/14/2013

I certify that the transponder tests required by FAR 91.413 and AC 43-6B have been performed and found to be satisfactory. Transponder: Make Garmin Model GTX-327 S/N: 83703664

Signature *[Signature]* Date: 1/14/2013

Midwest Aviation Services, Inc. P.O. Box 219 Barkley Field  
200 Hardy Roberts Drive West Paducah, KY 42086  
FAA Certified Repair Station MWR657W

CARRIED FORWARD

Date: 6/6/13 N544DS  
Tach/Hobbs: 947.8  
ACTT: 947.8

**Midwest Aviation Services, Inc.**  
PO Box 219 (270)744-5585 Ph  
200 Hardy Roberts Dr. (270)744-3486 Fax  
West Paducah, KY 42086 midwest-aviation.com

Completed annual inspection this date using Diamond Maint. Checklist, chap. 05-20-00 for guidance. Adjusted rear door latching mechanism. Right fuel placard installed. Cleaned terminals and replaced batteries for Quartz clock.  
ELT and Remote batteries replaced and tested per FAR 91.207d. Next due APRIL 2015.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this repair station under shop order 10723.

SIGNATURE *[Signature]* for CRS MWR657W

Date: 8/20/2013 N544DS  
Hobbs: 1018.2

**Midwest Aviation Services, Inc.**  
PO Box 219 (270)744-5585 Ph  
200 Hardy Roberts Dr. (270)744-3486 Fax  
West Paducah, KY 42086 midwest-aviation.com

Removed GNS530 PIN 011-00550-10 S/N 78402823 and replaced memory battery with new battery Garmin PIN 360-00009-00. Also Performed Garmin Service bulletin #0345 software version 6.04. Installed and tested GNS530.  
GNS430 PIN 011-00280-10 S/N 97105078 was causing full deflection on CDI. Removed GNS430 and sent to Garmin International for repair.  
Installed GNS430 PIN 011-00280-10 S/N 97105076 after repair. Set up maintenance pages and ground checked system.  
Repaired wire at pin 10 of J1 of GMA340 causing Comm #1 issues.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this repair station under shop order 10918.

SIGNATURE *[Signature]* for CRS MWR657W

END

**OZARK AIRCRAFT MAINTENANCE LLC**  
Cape Girardeau Regional Airport  
Cape Girardeau MO 63701

11-1-2014 N544DS Diamond DA40 S/N 40044

Tach 1020.0 Total Time 1020.0

On this date inspected this aircraft IAW FAR 43 App (d) performed the following work:  
opened all access panels and lubricated airframe. Packed all wheel bearings and replaced left main tube. Checked all lighting. Inspected brakes and serviced. Checked tires and wheel bearings. C/W2007-11-21 Rev 7-9-07 by inspection of fuel selector joint no defect noted next inspection due 1070.0. Closed all panels and washed aircraft.

I certify that this aircraft has been inspected IAW FAR 43 App (d) an Annual inspection and was determined to be in safe airworthy condition.

*[Signature]*  
Brian J. Clark A/P41640790

Midwest Aviation Services, Inc.

AIR TIME AND

DATE	DAILY TOTAL	TOTAL AIR TIME SINCE MFG.	ENGINEERING RECORD
			NOTE: USE BOTH SIDES FOR ADDITIONAL RECORDS
<b>OZARK AIRCRAFT MAINTENANCE LLC</b> Cape Girardeau Regional Airport Cape Girardeau MO 63701			
12-31-2014	N544DS	Diamond DA40 S/N 40044	
	Tach	1020.0	Total Time 1020.0
On this date installed overhauled turn coordinator P/N 1394T100-3Z S/N 2103-228. Installed new electric horizon P/N RCA2600. Operationally checked both units both checked normal. The aircraft/component identified above was repaired / inspected IAW current regulations of the Federal Aviation Administration and found airworthy, and is return to service for work performed only.			
<i>Brian J Ozark</i> Brian J Ozark AP1640790			
10-18-15	1181.0		ON THIS DATE REMOVED BATTERY AND INSTALLED NEW CALL IT 7243-14 24V BATTERY S/N 60250790 <i>Stephen P Jackowski</i> AP1110770

OZARK AIRCRAFT MAINTENANCE LLC  
Cape Girardeau Regional Airport  
Cape Girardeau MO 63701

December 10, 2015 N544DS Diamond DA40 S/N 40044  
Tach 1025.7 Total Time 1025.7  
On this date inspected this aircraft IAW FAR43 App (d) performed the following work opened all access panels and lubricated airframe. Inspected ELT IAW FAR91.207 (d) 1-4 next inspection due December 2016. Checked all lighting. Inspected brakes and serviced. Checked tires and wheel bearings. CW AD2007-11-21 Rev 7-9-07 by inspection of fuel selector joint no defect noted next inspection due 1075.7. Closed all panels and washed aircraft.  
I certify that this aircraft has been inspected IAW FAR 43 App (d) an Annual inspection and was determined to be in and airworthy condition.

*Stephen P Jackowski*  
Brian J Ozark AP1640790IA

CARRIED FORWARD

ENGINEERING RECORD

REG: N544DS DATE: 2-15-2017 HOBBS: 1073.3 TOTAL: 1073.3

AIRCRAFT ANNUAL

Aircraft Annual Inspection completed this time and date. Checked all applicable AD's through this date. AD93-05-06 ignition switch due at 2000 hour total. CW AD 2007-11-21 fuel valve selector by inspection, next due 1123.5. CW AD 2009-10-04 NLG leg cracks CW by inspection next due 1273.3. CW FAR 91.207 (d) inspection next due: 2/2018. Batteries due March 2017. Serviced brakes, inspected brakes and rotors. Jacked aircraft, cleaned, lubed, inspected all wheel bearings. Repair nose wheel ferring. R&R alternate air cable PN: DAI-9076-00-04. R&R mixture and throttle tension springs RZ-063E-12X. Checked all electrical, lights and connections. Lubed all points. Ground run electrical ops checks all systems good. I certify I inspected this AIRCRAFT IAW an ANNUAL inspection determine to be AIRWORTHY and APPROVE return to service.

Stephen P Jackowski  
AP3008621A

REG: N544DS DATE: 2-21-2017 HOBBS: 1082.8 TOTAL: 1082.6

Remove airframe battery and charged. Perform load test. Test satisfactory. R&R alternator PN: ALU-8521LS SN: NEW: H-R011061. Ground run ops checks good. Cleaned tested all spark plugs.

Stephen P Jackowski  
AP3008621A

REG: N544DS DATE: 4-20-17 HOBBS: 1194.0 TOTAL: 1194.0

AIRCRAFT ANNUAL

Aircraft Annual Inspection completed this time and date. Checked applicable AD's through this date AD 93-05-06 ignition switch due at 2000 hour total. CW AD 2007-11-21 Fuel valve selector by inspection, next due 1244.0. CW AD 2009-10-04 NLG leg cracks by inspection no defects noted next due 1394.0. CW FAR 91.207(d) ELT inspection par. (d). Battery due: 12/2024. Jacked aircraft, cleaned, inspected, lubed all wheel bearings. R&R SCAT 12 from heat muff to cowl, and heat muff to firewall. R&R left strobe light PN: 34-0428020-65. R&R left and right main tires. PN: 070-314-0 Michelin Air 6.00-8/6/120. R&R all 4 exhaust gaskets PN: 77611. R&R left and right, inboard and outboard brake pads PN: 066-14100. Lubed all points. Electrical checks all systems. I certify I inspected this aircraft IAW with an Annual inspection and determine to be Airworthy and Approve return to service.

Stephen P. Jackowski  
AP3008621A



AIR TIME AND

DATE	DAILY TOTAL	TOTAL AIR TIME SINCE MFG.	ENGINEERING RECORD
<p><b>Advanced Aircraft Maintenance</b></p> <p>621 Airport Rd Belle Vernon, PA 15012 412-418-0735 FAA3KJR540C ACTT: <u>1194.0</u> Reg: <u>N544DS</u> Date: <u>4-14-17</u></p> <p>The following tests and inspections have been performed: The transponder tests required by FAR 91.443 in accordance With Appendix F of Part 43.</p>			<p>ENGINEERING RECORD</p> <p>ONE AND AS MANY LINES AS REQUIRED FOR COMPLETE</p>
<p><b>Advanced Aircraft Maintenance</b></p> <p>621 Airport Rd Belle Vernon, PA 15012 412-418-0735 FAA3KJR540C ACTT: <u>1194.0</u> Reg: <u>N544DS</u> Date: <u>4-14-17</u></p> <p>The following tests and inspections have been performed: The transponder tests required by FAR 91.413 in accordance With Appendix F of Part 43.</p>			
<p><b>ADVANCED AIRCRAFT MAINTENANCE</b></p> <p>621 Airport rd Belle Vernon, Pa 15012 412-418-0735 FAA3KJR540C ACTT: <u>1194.0</u> Reg: <u>N544DS</u> Date: <u>4-14-17</u></p> <p>The following tests and inspections have been performed. The static system, Altimeter and Altitude reporting test Required by FAR 91.411 Appendix E of part 43. The Altimeter and or ADC was tested to meet requirement up to <u>20,000</u> feet.</p>			
<p><b>ADVANCED AIRCRAFT MAINTENANCE</b></p> <p>621 Airport rd Belle Vernon, Pa 15012 412-418-0735 FAA3KJR540C ACTT: <u>1194.0</u> Reg: <u>N544DS</u> Date: <u>4-14-17</u></p> <p>The following tests and inspections have been performed. The static system, Altimeter and Altitude reporting test Required by FAR 91.411 Appendix E of part 43. The Altimeter and or ADC was tested to meet requirement up to <u>20,000</u> feet.</p>			
<p>CARRIED FORWARD</p>			

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT	SIGNATURE	LICENCE NUMBER
<p>REG: N544DS DATE: <u>7/1/17</u> TACH: <u>1158.8</u> TOTAL: <u>1158.8</u></p> <p>Aircraft Annual inspection completed this time and date. Checked applicable AD's through this date. AD 93-05-06 ignition switch due @ 2000 Hrs. C/W AD 2007-11-21 fuel valve selector by inspection next due 1208.8 TACH. C/W AD 2009-10-04 NLG leg cracks by inspection no defects noted next due 1358.8 TACH. C/W FAR 91.207(d) Elt inspection battery due date: 12/2024. Cleaned, inspected repack all wheel bearings. Lubed all points ck all electrical systems. I certify I inspected this aircraft IAW an Annual inspection and determine to be airworthy and approve return to service.</p> <p>Stephen P Jackowski AP30086211A</p>		
<p>REG: N544DS DATE: <u>7/24/17</u> TACH: <u>1165.7</u> TOTAL: <u>1165.7</u></p> <p>R&amp;R starter P/N: 149-24LS S/N: New: H-R070112. Ground run OPS cks good.</p> <p>Ryan Dougherty AP 3699307</p>		
<p>REG: N544DS Date: 11/15/2017 TACH: 1202.8 Total Time: 1202.8</p> <p>R/R turn and bank indicator P/N 1394T100-32 S/N 2103-228. See Georgetown instrument services W.O # 26951. R/R fuel pressure transducer. With new P/N 3010017 S/N NEW 125059. R/R GNS 430 P/N 011-009280-10 S/N P7105076 see Garmin international WO RMA 98415681. R/R GNS 530 P/N 011-00550-10 S/N 784028822 with Garmin international under WO RMA 98415681. R/R main tires 6.00-6.6. R/R R/H MLG strut P/N D41-3213-50 with new. Form tracking # A333417 R/R propeller MTV-12B S/N 02187 For repair MT USA.</p> <p>Ryan Dougherty A&amp;P 3699307</p>		
<p>REG: N544DS Date: 1/18/2018 TACH: 1258.4 Total Time: 1258.4</p> <p>Aircraft 100hr completed this ACTT: 1258.4. 1/18/2018 Checked Applicable Ads through this date. AD 93-05-6 ignition switch due at 2000hrs. C/W AD 2007-11-21 fuel valve selector by inspection next due 1308.4. C/W AD 2009-10-04 NLG cracks by inspection no defects noted next due 1458.4. C/W FAR 91.207(d) ELT inspection battery due 12/2004, cleaned and inspected all wheel bearings. Lubed all parts. R/R inlet filter. I certify inspected this aircraft IAW a 100hr inspection determine to be airworthy and approve to return to service.</p> <p>Ryan Dougherty A&amp;P 3699307</p>		





REG: N544DS Date: 4/27/2018 TACH: 1323.0 Total Time: 1323.0

R&R tail skid P/N DA4-5300-20-00 w/sp. S/N new ERP0747663-10000. Performed compass swings and installed new deviation card. R&R pilots onboard master cylinder seals with new. bleed brakes w/50% hydraulic fluid. Right main tire demounted and rotated.

Ryan Dougherty  
AEP 3699307

ADVANCED AIRCRAFT MAINTENANCE

REG: N544DS DATE: 8/2/18 HOBBS: 1353.6 TOTAL: 1353.6

Aircraft Annual Inspection completed this time and date. AD 93-05-06 ignition switch due at 2000hr total. C/W AD 2007-11-21 fuel valve selector by inspection, next due 1403.6 total. C/W AD 2009-10-04 NLG for cracks IAW MSB40-046/3 dye pen no cracks noted. Next due 1553.6. C/W FAR 91.207(d) elt inspection par (D) battery due. 12/2024. Jacked aircraft, cleaned, inspected lubed all wheel bearings. Rotated L.H. main tire on rim. R&R all (4) brake pads p/n: 066-14100. R&R landing lamp p/n: 01-0770346-01. Cleaned and reinstalled instrument panel ground. Serviced air inlet filter. Lubed all points I certify I inspected this aircraft IAW an Annual Inspection and determine to be airworthy and approve return to service.

Stephen P. Jackowski  
AP30086211A

REG: N544DS DATE: 12-28-2018 TACH: 1453.8 TOTAL: 1453.8

Aircraft ANNUAL Inspection completed this time and date IAW FAR part 43 appendix D. Checked all applicable AD's through this date. AD 93-05-06 IGNITION SWITCH DUE AT 2000 HRS. C/W AD 2007-11-21 FUEL VALVE SELECTOR BY INSPECTION NEXT DUE 1503.8. AD 2009-10-04 NLG DUE 1553.6. C/W FAR 91.207(d) ELT inspection, battery due date 12/2024. R&R all 4 brake pads p/n 066-14100. Bled brakes. Cleaned, inspected and repacked all wheel bearings. Serviced inlet filter. Lubed all points. Ground run look and operational checks satisfactory. I CERTIFY I inspected this AIRCRAFT IAW an ANNUAL inspection determine to be AIRWORTHY and APPROVED return to service.

Stephen Jackowski  
AP30086211A

N544DS 2/26/2019 Tach 1523.4 total 1523.4

R&R pilots LH master cylinder seals with new. Blew brakes. Eps check out. R&R EPS test. AP3699307

CARRIED FORWARD

ENGINEERING RECORD

COMPLETE	INSPECTION, REPAIRS & REPLACEMENT ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
	N544DS 4/23/2019 Tach 1550.9 Total 1550.9 R&R starter P/N 149-2465 with overhauled SW off H-5041873 on H-5102505 EPS check out AP3699307		

REG: N544DS DATE: 4/24/2019 TACH: 1553.3 ACTT: 1551.3

Aircraft 100 Hr inspection completed this time and date IAW FAR part 43 APPX D. Checked all applicable AD's through this date. C/W FAR 91.207(d) ELT inspection, battery due date 12/2024. Serviced inlet filter, lubed all points. R&R ignition switch P/N A510-2K with new, AD 93-05-06 inspection lubrication of ignition switch due at ACTT 3551.3. C/W AD 2009-10-04 para (f2) by R&R NLG strut with new P/N D41-3223-10\_002. No further action required. C/W AD 2007-11-21 fuel valve selector universal joint by inspection no defects noted next due ACTT 1601.3. R&R alternator P/N ALU8521RS with new S/N H-5090971. R&R alternator belt P/N 37A19773-376. I certify this aircraft has been inspected IAW a 100hr inspection and determined to be in an airworthy condition at this time.

Ryan Dougherty AP3699307

Advanced Aircraft Maintenance

621 Airport Rd Belle Vernon, PA 15012  
412-418-0735 FAA3699307C  
ACTT: 1551.3 Reg: N544DS Date: 4/24/2019  
The following tests and inspections have been performed: The transmitter tests required by FAR 91.413 in accordance with Appendix F of Part 43.

ADVANCED AIRCRAFT MAINTENANCE

621 Airport Rd Belle Vernon, PA 15012 412-418-0735 FAA3699307C  
ACTT: 1551.3 Reg: N544DS Date: 4/24/2019  
The following tests and inspections have been performed: The acidic system, Altimeter and Airlock reporting test required by FAR 91.411 Appendix K of part 43. The altimeter and/or ADC was tested to meet requirements of 14 CFR 91.411.

REG: N544DS DATE: 8-10-19 HOBBS: 1649.3 TOTAL: 1649.3

AIRCRAFT ANNUAL

Aircraft Annual Inspection completed this time and date. Checked applicable AD's through this date. AD 93-05-06 ignition switch due at 2000 hour total. C/W AD 2007-11-21 Fuel valve selector by inspection, next due 1749.3. C/W AD 2009-10-04 NLG leg cracks NA by PN installed. C/W FAR 91.207(d) ELT inspection par (d). Battery due 12/2024. Jacked aircraft, cleaned, inspected, lubed all wheel bearings. Repaired baffling. Serviced air inlet filter. R&R left and right flap bending straps. Inspected gascolator. R&R left and right main tires. Lubed all points. Electrical checks all systems. I certify I inspected this aircraft IAW with an Annual inspection and determine to be Airworthy and Approve return to service.

Stephen P. Jackowski  
AP30086211A

ELT  
Annual



REG: N544DS DATE: 12/01/19 TACH: 1729.1 ACTT: 1729.1  
 Installed avionics skybeacon pin UAV-1001856-002 s/n 1008149 in r/h position light location. Ops check sat.  
 Size form 337 dated 12/10/2019  
 Stephen Jackowski  
 AP3008621A

BT FORWARD	DESCRIPTION	DATE	TACH	ACTT
N544DS	Removed propeller MTU-12-B s/n 082187 for repair.	10/9/2019		AP3699307
ACTT 16928				
N544DS	Installed propeller MTU-12-B s/n 082628 after repair.	10/19/2019		AP3699307
ACTT 16928				

REG: N544DS DATE: 1/21/2020 TACH: 1749.2 ACTT: 1749.2

Aircraft 100 Hr inspection completed this time and date IAW FAR part 43 APPX D. Checked all applicable AD's through this date. CW FAR 91.207(d) ELT inspection, battery due date 12/2024. Serviced inlet filter, lubed all points. CW AD 2007-11-21 fuel valve selector universal joint by inspection no defects noted next due ACTT 1845.2. AD 93-05-06 inspection and lubrication of ignition switch due at ACTT 3551.3. Removed, cleaned, inspected fuel strainer no defects noted. Removed, cleaned, inspected and repacked wheel bearings. I certify this aircraft has been inspected IAW a 100hr inspection and determined to be in an airworthy condition at this time.  
 Ryan Dougherty AP3699307

REG: N544DS DATE: 6-1-2020 HOBBS: 507.9 TACH: 1849.6 TOTAL: 1849.6

AIRCRAFT ANNUAL

Aircraft Annual Inspection completed this time and date. Checked applicable AD's through this date. AD 93-05-06 ignition switch due at 3551.3 hour total. CW AD 2007-11-21 Fuel valve selector by inspection, next due 1949.6. CW AD 2009-10-04. CW FAR 91.207(d) ELT inspection par (d) Battery due: 12/2024. Jacked aircraft, cleaned, inspected, lubed all wheel bearings. R&R all 4 brake parts PN: 056-14100. Repaired baffling. Treated minor corrosion defects. Serviced air inlet filter. Inspected gascolator. R&R voltage regulator. R&R left and right main tires 6.0 x 6.0 6ply. Lubed all points. Electrical checks all systems. I certify I inspected this aircraft IAW with an Annual inspection and determine to be Airworthy and Approve return to service.

Stephen P. Jackowski  
 AP3008621A

CARRIED FORWARD

ENGINEERING RECORD

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

SIGNATURE LICENCE NUMBER

REG: N544DS DATE: 8/25/2020 TACH: 1922.3 ACTT: 1922.3

Airframe 100hr inspection completed this time and date IAW FAR part 43 APPX D. Checked all applicable AD's through this date. AD 93-05-06 due ACTT 3551.3. CW AD 2007-11-21 fuel valve universal joint next due ACTT 1922.3. Complied with FAR 91.207(d) ELT inspection, battery due 12/2024. Lubed all points, checked nosewheel tension. Ground run leak check satisfactory. I certify this airframe has been inspected IAW a 100hr inspection and is an airworthy condition at this time.

Ryan Dougherty  
 AP3699307

N544DS 10/5/2020 Tach 1956.7 ACTT 1956.7  
 CW AD 2007-11-21 by replacement of joint assembly D41-2823-20-05-01  
 Next due 2956.7 ACTT operational check sat  
 Ryan Dougherty AP3699307

N544DS 11/2/2020 Tach 1992.8 Hobbs 706.2 ACTT 1992.8  
 CW AD 2014-13-08 modification of aft main gear in cabin  
 New Diamond Aircraft Industries MSB 40-074 w/ 40-074 No further action required.  
 Ryan Dougherty AP3699307

N544DS 11/16/2020 Tach 1992.8 Hobbs 706.2 ACTT 1992.8  
 Removed propeller MTU-12-B 12/19 s/n 082628 from aircraft for repair.  
 Ryan Dougherty AP3699307

N544DS 12/14/2020 Tach 1992.8 Hobbs 706.2 ACTT 1992.8  
 Reinstalled propeller MTU-12-B 15017 s/n 082628 on the after repair ops check sat.  
 Ryan Dougherty AP3699307

REG: N544DS DATE: 5/25/2021 TACH: 2021.7 ACTT: 2021.7

Airframe ANNUAL inspection completed this time and date IAW FAR part 43 APPX D. Checked all applicable AD's through this date. AD 93-05-06 due ACTT 3551.3. AD 2007-11-21 fuel valve universal joint due ACTT 2956.7. Complied with FAR 91.207(d) ELT inspection, battery due 12/2024. Lubed all points, checked nosewheel tension. Ground run leak check satisfactory. I certify this airframe has been inspected IAW an ANNUAL inspection and is an airworthy condition at this time.

Stephen Jackowski  
 AP3008621A



AIR TIME AND

ADVANCED AIRCRAFT MAINTENANCE

ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

N# 544DS

CERTIFIED ALTIMETER PER FAR 43, APP. E (b) TO 20000 FT. TO COMPLY WITH FAR 91.411.  
 CERTIFIED STATIC SYSTEM PER FAR 43, APP. E (a) TO COMPLY WITH FAR 91.411.  
 CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM PER FAR 43, APP. E (c) TO COMPLY WITH FAR 91.411.  
 CERTIFIED TRANSPONDER PER FAR 43, APP. F TO COMPLY WITH FAR 91.413.

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

Date: 4/16/2021 Tech. ES W.O. ES Signed ES  
 Advanced Aircraft Maintenance, Inc. • CRS# 3KJRS40C • PH (724) 823-0700 • 621 Airport Road, Hangar 118 • Belle Vernon, PA 15012

DATE: 06/17/2021 A/C REG #: NS44DS S/N: 40044 TACH: 2077.8 ACTT: 2077.8

Disabled pitot heat system by use of a collar on the applicable circuit breaker. Placarded instrument panel with appropriate inoperative stickers. AMM DOC# 6.02.D1 REV 7 dated 01 Apr 2013 referenced. This aircraft was returned to service with regards to this work that was accomplished.

ES  
 Eran Stone  
 3235142AP

REG: NS44DS DATE: 7/24/2021 TACH: 2121.5 ACTT: 2121.5

Airframe 100hr inspection completed this time and date IAW FAR part 43 APPX D. Checked all applicable AD's through this date. AD 93-05-06 due ACTT 3551.3. Complied with FAR 91.207(d) ELT inspection, battery due 12/2024. R&R landing light pin 0770346-01. R&R nose tire 5x5.00. R&R right main 6x6.00. T.S. pilot heat inop. cleaned connections ops check seal. Removed placards and circuit breaker collar. Lubed all points, checked nosewheel tension. Ground run leak check satisfactory. I certify this airframe has been inspected IAW a 100hr inspection and is an airworthy condition at this time.

Ryan Dougherty  
 AP3699307

CARRIED FORWARD

ENGINEERING RECORD

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

DATE	DESCRIPTION	SIGNATURE	LICENCE NUMBER
10/1/2021	ACTT 2160.4 Removed engine SW L-29411-51A from aircraft & installed engine SW L-21109-51E @ TSMC on aircraft with new engine shock mounts ground run leak check sat. <u>ES</u> AP3699307	<u>ES</u>	Tach 2160.4

REG: NS44DS DATE: 11/8/2021 TACH: 2160.8 HOBBS: 939.9

R&R engine baffling with new composite baffling. R&R emergency batteries with new, next replacement due 11/2023

Ryan Dougherty  
 AP3699307

REG: NS44DS DATE: 2/11/2022 TACH: 2221.4 ACTT: 2221.4

Airframe 100hr inspection completed this time and date IAW FAR part 43 APPX D. Checked all applicable AD's through this date. AD 93-05-06 due ACTT 3551.3. Complied with FAR 91.207(d) ELT inspection, battery due 12/2024. R&R MAP transducer with new. Serviced air filter. Lubed all points, checked nosewheel tension. Ground run leak check satisfactory. I certify this airframe has been inspected IAW a 100hr inspection and is an airworthy condition at this time.

Ryan Dougherty  
 AP3699307

REG: NS44DS DATE: 6/6/2022 TACH: 2305.5 ACTT: 2305.5

Airframe annual inspection completed this time and date IAW FAR part 43 APPX D. Checked all applicable AD's through this date. AD 93-05-06 due ACTT 3551.3. Complied with FAR 91.207(d) ELT inspection, battery due 12/2024. R&R LH & RH all nav light bulbs. R&R parking brake cable with serviceable. R&R RH brake pads 066-14100. Serviced air filter. Lubed all points, checked nosewheel tension. Ground run leak check satisfactory. I certify this airframe has been inspected IAW an annual inspection and is approved for return to service.

Stephen Jackowski  
 AP3009621A

NS44DS 9/18/2022 Tach 2371.8 ACTT 2371.8  
 Removed propeller N11V-12-B/1180-17 SW 08C0628  
 from aircraft for repair  
ES AP3699307