

AIRCRAFT TECHNICAL RECORD

Section 1. AIRFRAME LOG

AIRCRAFT

- | | |
|---|----------|
| 1. Nationality and Registration: | N227PS |
| 2. Manufacturer's designation: | DA 40 NG |
| 3. Manufacturer's Serial Number: | 40.NC247 |
| 4. Type Approval or Specification Number: | A47CE |
| 5. Date of Manufacture: | 2023 |
| 6. Aircraft Inspections cycle: | |
-



Section 1: Airframe Log



DIAMOND AIRCRAFT INDUSTRIES INC.
DOT APPROVED MANUFACTURER #161-93

Registration N227PS
AC Serial Number 40 NC247
Engine Serial Number E4-A-06535
Prop Serial Number 231133
Airframe Total Time 3 2 HRS

- Total Time **Airframe** Brought forward from Flight Test Journey Log (DAI - Form Q-157) 3 2 HRS

- Compass Swing Performed

Date JUNE 15 2023
Next Due JUNE 2024

FOR	N	30	60	E	120	150
STEER	001	031	061	092	123	152
FOR	S	210	240	W	300	330
STEER	181	210	239	269	300	331

- Static Pressure system and Primary Altimeter (G1000) have been inspected and tested in accordance with CAR Standard 571, Appendix B and 14 CFR 91.411

Test Date JUNE 02 2023
Next Due JUNE 2025

- Stand By Altimeter

Factory Test Date MARCH 16 2023
Next Due MARCH 2025

- ATC Transponder & Altitude Reporting System(s) have been tested in accordance with CAR Standard 571, Appendix F and 14 CFR 91.217: & 91.413:

Test Date JUNE 02 2023
Next Due JUNE 2025
Programmed Registration: N227PS
Hex Code N/A (U.S. Registration)

- The ELT was tested and inspected in accordance with CAR Standard 571, Appendix G and 14 CFR 91.207(d):

Manufacturers Cert. date: 19/ 23 (WW/YY)
Installation Inspected: JUNE 15 2023
Battery due: JULY 2029
Next ELT inspection due: JUNE 2024
ELT Programmed:

- REG N227PS
- HEX N/A
- Country: 366 (USA)
- Beacon ID: ADC6499965CB741

- Emergency Battery Pack: Replacement Due Date: MAY 2025

- Garmin G1000 NXi Installation:

Software System: 1669.12
Checklist File: N/A
Basemap Land 5.20
SafeTaxi Data: 10-AUG-2023
Terrain Data: 3.00
Obstacle Data: Expires 10-AUG-2023
Navigation Data: Expires 13-JUL-2023
Apt Directory: Expires 10-AUG-2023
ChartView Data: N/A
FliteCharts Data: Expires 13-JUL-2023
IFR/VFR charts: Date: 15-JUN-2023

DA
Q 8
Inspector

JUN 16 2023
Date

(Continued next page)



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

Registration: N227PS
AC Serial Number: 40.NC247
Engine Serial Number: E4-A-06535
Prop Serial Number: 231133
Airframe Total Time: 3.2 HRS

- Following limitations as per DA 40 AMM Chapter 4 (subject to change with revision):

Component	Hours	Years	Next Due:
Essential Bus	1000	-N/A-	1000 hrs
Pitot-Static System	1000	2	1000 hrs or JUNE 2025
Bonding System	1000	-N/A-	1000 hrs
Emergency Battery Pack	-N/A-	2	MAY 2025
ECU Backup Battery	-N/A-	1	MAY 2024

- The following STC's are incorporated:
 - FAA STC No. SA03366NY (Beringer wheel and brake system)
- THIS AIRCRAFT WAS INSPECTED FOR CONFORMITY TO APPLICABLE COMPANY RELEASED DOCUMENTS (DRAWINGS, SPECIFICATIONS, CONCESSIONS).
- I HEREBY CERTIFY THAT THIS AIRCRAFT CONFORMS TO FAA TYPE CERTIFICATE A47CE Rev No. 17, AND IS IN A FIT AND SAFE STATE FOR FLIGHT.
- Bi-weekly AWD check carried out to current revision 2023-12 all applicable AD's complied with, see attached.
- The work described above was carried out in accordance with the applicable Standard of Airworthiness.


Inspector

JUN 16 2023
Date

(Intentionally left blank below this point)

U.S. Standard Airworthiness Certificate, issued:

(Date) JUN 22 2023, has been installed in the
Aircraft on behalf of FAA Farmingdale/Saddle Brook MIDO
Section AIR-8A5 on:

(Date) JUN 22 2023

(Print) L. Beringer (Signature) 



Section 1: Airframe Log

DATE / /	AIR TIME				LANDINGS / CYCLES		DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL	
	HRS	MIN	HOURS	MIN			
CARRIED FORWARD			3	2			



DIAMOND AIRCRAFT IND.
D.O.T. APPROVED MAINTENANCE
ORGANIZATION 161-93

Registration: N277PS
Airframe Total Time: 3.2 Hrs
Engine S/N: E4-A-06535
Prop S/N: 231133

AC Serial Number: 40.NC247
Work Order: SO074299
Engine TT: 3.2 Hrs
Prop TT: 3.2 Hrs

The following maintenance was carried out:

- Stripe package and Registration Marks installed IAW CFR 14, chapter 1, C, Part 45
- Instrument Panel – Glare Shield removed and reinstalled to facilitate cosmetic work
- Upper and lower cowl removed and installed to facilitate cosmetic work
- Various Cosmetic re-work addressed, see work order package for details.
- PAX Door – FWD microswitch activation ARM adjusted as required for correct function
- Landing/Taxi light lens removed and reinstalled for cleaning

The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness



Date: JUL 07/23



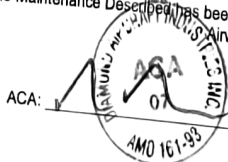
DIAMOND AIRCRAFT IND.
D.O.T. APPROVED MAINTENANCE
ORGANIZATION 161-93

Registration: N227PS
Airframe Total Time: 3.2 Hrs
Engine S/N: E4-A-06535
Prop S/N: 231133

AC Serial Number: 40.NC247
Work Order: SO074299
Engine TT: 3.2 Hrs
Prop TT: 3.2 Hrs

- Correcting log entry: Previous log entry stated the registration was for N277PS. The correct registration for this aircraft is N227PS.

The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness



Date: JUL 07 2023

NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

01048 (08-17-2023)

Page 1 / 1

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA40NG
S/N: 40.NC247
REG. NO.: N227PS400 Herdon Ave
Orlando, FL 32803W/O #: 01048
DATE: 08-17-2023
A/C TT: 13.1
A/C Tach: 13.1**Airframe Entries**

- 1 COMPLY WITH PRE-BUY INSPECTION. ... PRE-BUY INSPECTION C/W PER CUSTOMER REQUEST. ALL DEFECTS NOTED AND RETURNED TO CUSTOMER.

I certify that this aircraft has been inspected for the work performed above and was determined to be in airworthy condition, and returned to service.

DATE: 08-17-2023

SIGNED:

Kerry Dellhomme
A&P: 3473912

WORK ORDER: 01048

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ORLANDO AIRCRAFT SERVICES 601 HUMPHRIES AVE. ORLANDO EXECUTIVE AIRPORT ORLANDO, FL
LOG ID# 12564 17-August-2023 WO# 122099-1 HOBBS 18.3
N227PS S/N 40.NC247 DIAMOND DA-40NG

Pg 1 / 1

REMOVED MFD GARMIN GDU-1054 P/N 011-03470-60 S/N 494605723.
INSTALLED WARRANTY EXCHANGE GARMIN GDU-1054 P/N 011-03470-60 S/N 494601082.
CONFIGURED AND GROUND CHECKED IAW CURRENT G1000 NXI INTEGRATED AVIONICS SYSTEM LINE MM - AFN

TP4R552M ALLEN OVERLANDER

Date

**Airframe Log Entry**

Diamond DA-40NG
Engine: Austro E4
Prop: MT MTV-6
WO#SO-24-00433

Aircraft: N227PS
Aircraft S/N: 40.N247
Engine S/N: E4-A-06535
Prop S/N: 231133

Airframe TT: 82.0
Engine TT: 58.0
Prop TT: 58.0
Date: 6-19-24

Performed Annual/100hr inspection checklist and FAR 43, Appendix D. Lubed per 100 hr checklist. Pressure checked and serviced Coolant system. Removed and replaced ECU batteries P/N-NP7-12 S/N- N/A IAW annual checklist. Complied with ELT Function test/inspection IAW 14 CFR 91.207 P/N- S1804501-01. F/T Good. Replaced fuel filter with new P/N WK724-3. C/W AD 16-23-03 turbo v-band inspection, next due at 182hrs tach time. Performed AD search through AD toolbox, No new AD's at this time.

I certify all maintenance performed on this aircraft was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.

Jake Brubaker-A&P 3630344

Vail Valley Jet Center-Aircraft Maintenance Department
Gypsum, CO
amx@vvjc.com

Phone: 970-524-4003-Fax: 970-524-9428

Section 1: Airframe Log

DATE / /	AIR TIME				LANDINGS / CYCLES		DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL	
	HRS	MIN	HOURS	MIN			
CARRIED FORWARD							

Professional Aircraft Services, LLC., 4824 Earhart Rd, Loveland CO 80538

Date: 10-22-2024 Logbook: Airframe Tail Number: N227PS

Tach: 78.7 TT: 78.7 Model: Diamond DA 40 NG Serial: 40.NC247

- Removed propeller (Model: MTV-6-R/190-69, S/N: 231133) for repair. Reinstalled Propeller (Model: MTV-6-R/190-69, S/N: 231133) after repair by Rocky Mountain Propellers, Inc. under W.O. 24-53227, torqued as required. All work done in accordance with DA40 aircraft maintenance manual section 61-11-00, para B. Operational check and leak check satisfactory.

Certificate: AP3258753IA | Authorized Technician: Terry Cecil Sign: *Terry Cecil*

| Date: 10-22-2024

ARAPAHOE AERO AVIONICS

12780 E Control Tower Rd Englewood, CO 80112 303.799.6289

N227PS Diamond DA40 NG SN: 40.NC247 TACH: 150.3 Hobbs: 211.6 June 19, 2025

Garmin GDC-72 PN: 011-03734-01, SN: 45S100260 has been tested and inspected per FAR 91.411 Part 43 Appendix E to 20K'. United Altimeter reads +50' at sea level. Adjusted BARO per United Instruments Manual TM-5934 Rev 5 dated Sept 15 2017. United Altimeter 5934PD-3, SN: 522963 standby altimeter has been tested and inspected per FAR 91.411 Part 43 Appendix E to 20K'. Aircraft static system failed initial static system leak check. Found leaking at the standby altimeter fitting. Removed fitting, applied PTFE tape, and reinstalled fitting. No further leaks noted. Aircraft Pitot and Static systems have been tested per **FAR Part 43 Appendix E**. The aircraft Static system was tested to 7000' with <20' leak per minute. The aircraft Pitot system was tested to 150 kts with no leaks. The ATC Transponder test and inspection required by **FAR 91.413** was performed on the Garmin GTX 345R 011-03303-00, SN: 3EH031523 transponder and found to comply with **FAR Part 43 Appendix F** and **FAR 91.227** performance requirements. Details of this test and inspection are on file at this Repair Station.

The aircraft and/or component identified above have been inspected in accordance with the current maintenance rules of the Federal Aviation Regulations and is approved for return to service.

FAA CRS ZL6R006Y Signed: [Signature] AV-05219

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N227PS Diamond DA40NG S/N: 40.NC247 Airframe Total Time: 150.3

27 June 2025 Tach Time: 150.3 Hobbs: 211.2

100 Hour/Annual Inspection completed this date using the Diamond Maintenance Manual Inspection Form 05-28-00 for Model DA40 NG as a guide. Inspected / Tested Artex ELT 1000 system according to applicable Aircraft and ELT manufacturer's instructions and found that it meets the requirements of section 91.207(d). No defect noted, Beacon Test Report No. BT100AVtriple/3195/N227PS, dated 06/17/2025 on file. **ELT battery due July 2029**. Complied with **Diamond AD 2016-23-03 (Turbo V-clamp)** by visual and dimensional inspection, no defects noted. **Next inspection due Tach Time: 250.3**. Complied with **MSB 40NG-080 R2 (Starter Wire)** by visual inspection of starter wires, no defects noted. Complied with **MSB 40-103 (Passenger Door Separation)** by inspection, adjustment and installation of new placards per work instruction. Installed new ECU back up battery P/N: NP7-12. Installed new Emergency battery P/N: DA4-2560-91-00, S/N: 2242260041. **Replacement June 2026**. Installed new Emergency battery P/N: DA4-2560-91-00, S/N: 2242260041. **Replacement June 2027**. Cleaned induction air filter. Inspected nose landing gear and checked nose fork side tension. Completed Annual lubrication and service. Secured right aft overhead panel as needed. Installed new / Inspected #2 voltage regulator, operational check good. AD's checked through Biweekly 2025-12. Post inspection ground run-up and systems operational check good. Cleaned aircraft exterior, cleaned windscreen and cabin windows and vacuumed seats and interior. **I**

CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

[Signature] Kevin Mosher A&P 3443784 IA w/o 46138

NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

Professional Aircraft Services, LLC., 4824 Earhart Rd, Loveland CO 80538

Date: 05-15-2025 Logbook: Airframe Tail Number: N227PS

Hobbs: 146.5 TT: 146.5 Model: Diamond DA 40 NG Serial: 40.NC247

- Installed new LH and RH Goodyear Flight Custom II 15x6.0-6 10ply main tires p/n 156E06-1 s/n 50280055, 50300001 and new Beringer valve stem p/n A-001 on RH wheel assembly including new Beringer LH and RH main wheel seals p/n J-JTR-007N, leak check satisfactory.
- Installed new LH and RH Beringer brake lining kits p/n PQT-010A.

Certificate: AP3258753IA | Authorized Technician: Terry Cecil Sign: Terry Cecil

| Date: 05-15-2025