

AIRCRAFT TECHNICAL RECORD

Section 1. AIRFRAME LOG

Altimeter Scale Correction Card

Altimeter P/N:

6420302- 1

Serial Number:

D21 - 12761

A

REFERENCE ALTITUDE IN FT	ALTIMETER READS
-1,000	-1,018
0	-19
500	480
1,000	980
1,500	1,480
2,000	1,978
3,000	2,979
4,000	3,980
5,000	4,980
6,000	5,981
8,000	7,981
10,000	9,982
11,000	10,982
12,000	11,982
14,000	13,981
16,000	15,983

REFERENCE ALTITUDE IN FT	ALTIMETER READS
17,000	16,985
18,000	17,985
20,000	19,984
22,000	21,984
25,000	24,986
30,000	29,983
35,000	34,980
40,000	39,969
45,000	44,954
50,000	49,940

Tested By:

LL

Date:

5/13/2021

AIRCRAFT

- | | |
|---|----------|
| 1. Nationality and Registration: | N71BG |
| 2. Manufacturer's designation: | DA 62 |
| 3. Manufacturer's Serial Number: | 62.C038 |
| 4. Type Approval or Specification Number: | A00012NY |
| 5. Date of Manufacture: | 2021 |
| 6. Aircraft Inspections cycle: | |



Section 1: Airframe Log

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

Registration: N71BG
AC Serial Number: 62.C038
LH Engine Serial Number: E4P-C-06046
RH Engine Serial Number: E4P-C-06045
LH Prop Serial Number: 201376
RH Prop Serial Number: 201377
Airframe Total Time: 3.9 HRS

■ Total Time Airframe Brought forward from Production Test Flight Journey Log (DAI - Form Q-224): 3.9 HRS

■ Compass Swing Performed:

○ Date: DECEMBER 20 2021
○ Next Due: DECEMBER 2022

FOR	N	30	60	E	120	150
STEER	002	032	061	091	120	150
FOR	S	210	240	W	300	330
STEER	180	211	241	272	303	333

■ 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: NOVEMBER 17 2021
○ Next Due: NOVEMBER 2023

■ Stand By Altimeter:
○ Factory Test Date: MAY 13 2021
○ Next Due: MAY 2023

■ 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: NOVEMBER 17 2021
○ Next Due: NOVEMBER 2023
○ Programmed Registration: N71BG
○ Hex Code: N/A (USA Registration)

■ The ELT was tested and inspected in Accordance with CAR Standard 571, Appendix G and 14 CFR 91.207(d):
○ Manufacturers Cert. date: 05/21
○ Installation Inspected: DECEMBER 20 2021
○ Battery due: MARCH 2028
○ Next ELT inspection due: DECEMBER 2022
○ ELT Programmed:
■ REG: N71BG
■ Hex ID: N/A
■ Country: 366 (USA)
■ 15 Hex ID: ADC6492671DCEB1

■ Garmin G1000 NXi Installation:
○ System: 2056.12
○ Checklist File: N/A
○ Basemap Land 5.19
○ SafeTaxi Data: Expires 27-JAN-2022
○ Terrain Data: 3.00
○ Obstacle Data: Expires 27-JAN-2022
○ Navigation Data: Expires 30-DEC-2021
○ Apt Directory: Expires 27-JAN-2022
○ FliteCharts Data: Expires 30-DEC-2021
○ IFR/VFR charts: Date: 2-DEC-2021


Inspector

DEC 22 2021
date


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

Registration: N71BG
AC Serial Number: 62.C038
LH Engine Serial Number: E4P-C-06046
RH Engine Serial Number: E4P-C-06045
LH Prop Serial Number: 201376
RH Prop Serial Number: 201377
Airframe Total Time: 3.9 HRS

- Following limitations as per DA 62 AMM Chapter 4,5 (subject to change with revision):

Component	Hours	Years	Next Due:
Bolt connecting flap push rods to flap bell crank mid section at rear main bulkhead	1000 +/- 50	-N/A-	1000 hrs
ECU backup batteries LH/RH	-N/A-	1 yr. +/- 30 days	NOVEMBER 2023
Bonding system and static discharging system.	1000 +/- 50	4 yrs. +/- 60 days	1000 or NOV 2025
Emergency battery package (if MAM 62-002 is NOT installed)	-N/A-	2 yrs	N/A; MAM62-002 Incorporated.

- The following STC's are incorporated:
 - No STC's incorporated
- 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 A00012NY Rev. No.1, AND IS IN A FIT AND SAFE STATE FOR FLIGHT.
- Bi-weekly AWD check carried out to current revision 2021-25 all applicable AD's complied with
- The work described above was carried out IAW the applicable Standard of Airworthiness.



Inspector

(Intentionally left blank below this point)

DEC 22 2021

date

U.S. Standard Airworthiness Certificate, issued:

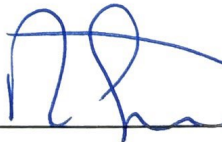
DEC 27 2021

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

(Date) DEC 27 2021

(Print) R. Salton

(Signature)



Section 1: Airframe Log

DATE / /	AIR TIME				LANDINGS / CYCLES	
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL
	HRS	MIN	HOURS	MIN		

DETAILS OF TASK
(INSPECTION, REPAIRS & REPLACEMENT)

Log Book Entry

June 07, 2022
FAACRS 8SGR199C
www.synergyfbo.com

SYNERGY
FLIGHT CENTER

2823 East Empire Street
Bloomington, Illinois 61704
United States
Telephone: (309)828-4448
Fax: (309)828-4458
info@synergyfbo.com

Registration #: N71BG
Manufacturer: Diamond Aircraft
Part/Model number: DA-62
Work Order No: R1846

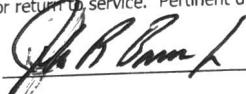
Total AC Time: 82.7
Aircraft Serial Number: 62C038
Date: 06/07/2022

Total AC Cycles:

Squawk
1.4
1.5

SERVICED THE LEFT HAND ENGINE WITH COOLANT IAW THE DIAMOND DA62 AMM CHAPTER 12-10-00. TROUBLESHOT INOPERATIVE AIR CONDITIONING SYSTEM. REMOVED OVERHEAD CONTROL PANEL, STARTED LEFT ENGINE AND CHECKED FOR POWER TO THE CONTROL PANEL. CONFIRMED THERE WAS NO POWER TO THE CONTROL PANEL. REMOVED AFT BAGGAGE NET AND WALL. INSPECTED SYSTEM AND FOUND WIRE DISCONNECTED FROM THE AIR CONDITIONING BATTERY PACK. RECONNECTED WIRE TO BATTERY POST. REINSTALLED REAR BAGGAGE WALL AND NET. REINSTALLED OVERHEAD CONTROL PANEL. PERFORMED SATISFACTORY OPERATION CHECK OF THE SYSTEM. WORK PERFORMED IAW DIAMOND DA62 AMM CHAPTER 21-50. I CERTIFY THAT THE WORK DESCRIBED ABOVE HAS BEEN INSPECTED AND IS DETERMINED TO BE IN AN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number R1846.

Signature: 

Date: 6/07/2022

wo: WO_61

Airframe - page 1 of 1

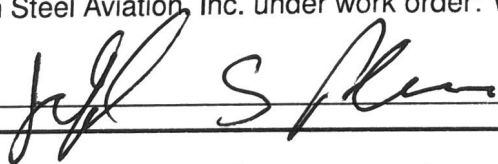


Steel Aviation, Inc. · 53 North Street Ext · Phillipsburg, Ohio 45354 · 937 332 7587

N71BG
TACH: 99.8
DIAMOND AIRCRAFT IND INC, DA 62, S/N: 62.C038
July 13, 2022

- 1. Adjusted rear door microswitch. Ops checked good.
- 2. Serviced all tires IAW POH.
- 3. Secured door grab handle cover of pilot side door.
- 4. Set tension on elevator trim wheel friction lock.

I certify that this AIRFRAME with the work preformed is determined to be in airworthy condition. Details of work performed are on file with Steel Aviation, Inc. under work order: WO_61 .

Jeff Pleiman A/P I/A 3304319 

NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

wo: WO_160

Airframe Annual · page 1 of 1



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N71BG
TACH: 215.8

DIAMOND AIRCRAFT IND INC, DA 62, S/N: 62.C038

January 13, 2023

1. C/W Annual Inspection in accordance with FAR 43 Appendix D - using Diamond DA62 AMM as a guide.
2. C/W 200 hour check IAW Diamond DA62 AMM.
3. AD 22-03-03 P/C/W at factory see original Austro engine logbook entry dated 12/16/2021. P/C/W per MSB-E4-036/1 on both engines, drive gear s/n's installed 4747 and 4463.
4. Removed instrument glare shield, found defrost duct hose to be attached to duct. all systems function.
5. R&R L/H and R/H brake linings and rotors with new. Installed (2) P/N 164-25700 - Brake Disc, DA62, Cleveland, Installed (8) P/N 066-15500 - Brake Lining, DA62, Cleveland.
6. R&R ECU backup batteries with new. Installed (4) P/N NP7-12 - 12V BATTERY, Batt 2, Diamond.
7. Caps tested main battery 115 percent. Ops test good.
8. C/W service information letter SI62-034 by inspection and labeling cables.
9. C/W MSB 62-002 REV. 6 per EECU software upgrade using AE300-Wizard document number E4.08.09 chapter 10. Current software is VC33_2P_07_25.

I certify that this AIRFRAME has been inspected in accordance with an (annual) inspection and was determined to be in airworthy condition. Details of work performed are on file with Steel Aviation under work order: WO_160.

Jeff Pleiman A/P I/A 3304319

wo: LUK145-23420

Airframe · page 1 of 1



Airtech of Ohio, LLC. · 4765 Airport Rd · CINCINNATI, Ohio 45226 · CRS#: 5A8R960B

N71BG
TACH: 368.2

DIAMOND AIRCRAFT IND INC, DA 62, S/N: 62.C038

November 28, 2023

1. Mid-Continent MD302 Standby Attitude Module found to be out of calibration. Performed airspeed and altitude recalibration in accordance with the MD302 Installation Manual PN: 9017782 Rev P Dated: Ja

2. Performer
No discre

With respect to
formed are on fi

Craig Harbeson

AIRTECH LLC. CRS # 5A8R960B

WO # LUK145-23420 REGISTRATION # N71BG7 POSITION Pilot

ALTITUDE	ERROR	ALTITUDE	ERROR
-1000	0	12000	-10
0	0	14000	-10
500	0	16000	-20
1000	0	18000	-20
1500	0	20000	-20
2000	0	25000	—
3000	0	30000	—
4000	0	35000	—
6000	0	40000	—
8000	0	45000	—
10000	0	50000	—

At-15


ALTIMETER CORRECTION CARD

REV 2

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							

wo: WO_383


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Diamond, DA62, S/N: 62.C038

December 01, 2023


N71BG
TACH: 368.2

R&R Installed P/N D67-3220-19-00 - NLG: STEERING FORK ASSEMBLY, Installed P/N DIN472-J22 - RETAINING RING.

With respect to the work performed, this Airframe is approved for return to service. Details of work performed are on file with Steel Aviation under work order: WO_383.

Danny Potter A/P I/A 3176242

wo: WO_376


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DIAMOND AIRCRAFT IND INC, DA 62, S/N: 62.C038

December 01, 2023

N71BG
TACH: 368.2

- C/W Annual Inspection I/A/W DIAMOND AMM 05-20-00.
- C/W ELT Inspection IAW FAR 91.207(D) NDN.
- C/W 12 month ECU A&B Back up battery replacement. I/A/W diamond AMM 24-31-00. Installed (4) P/N NP7-12 DIAMOND - 12V BATTERY, Batt 2, Diamond.
- Checked AD's for compliance through Bi-Weekly 2023-24.
- Checked Mandatory Service Bulletins to date.
- C/W MAGNETIC COMPASS CHECKS , NDN.
- C/W main battery capacity test. Passed at 98%.
- C/W 91.411 & 91.413 IFR cert by Airtech of Ohio see separate log entry. WO_LUK145-23420.
- C/W AUSTRO MSB 62-002 Rev.7 ECU Software VC33_2P_07_26.
- C/W MSB 62-003 Rev. 8 by comparing installed system software and related manifests with the approved ones stated in the service bulletin.
- C/W MSB 62-042/1 Rudder rib correction IAW work instructions WI-MSB 62-042. Installed (3) P/N BU6-8-6-0100-C - BUSHING, Installed P/N HYSOL EA934 - Paste Adhesive, Installed (2) P/N ISO 15978-3,2x10 - Countersunk blind rivet.
- C/W MSB 62-045/2 NDN.
- C/W MSB62-052 NDN.
- Removed and replaced both L/H and R/H MLG tires and tubes with new. Installed (2) P/N 606C86-6 - Tire, F/C III, Tube Type 6.00-6, 8 PLY, DA62, Installed (2) P/N G15/6.00-6 - DA 62 TUBE CL Wheel ASSY Goodyear tube.

wo: WO_376


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- Removed and replace both R/H and L/H brake discs and brake linings with new Installed (2) P/N 164-25700 - Brake Disc, DA62, Cleveland, Installed (8) P/N 066-15500 - Brake Lining, DA62, Cleveland, Installed (2) P/N 068-01100 - Brake Lining Shim.

I certify that this AIRFRAME has been inspected in accordance with an (annual) inspection and was determined to be in airworthy condition. Details of work performed are on file with Steel Aviation under work order: WO_376.

Jeff Pleiman A/P I/A 3304319

NAME/
SIGNATURE

LICENCE:
AME or
AMO/ACA

wo: WO_528

Airframe - page 1 of 1



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N71BG
TACH: 495.4

Diamond , DA62, S/N: 62.C038

July 10, 2024

R&R parking brake cable with new. Installed P/N DAI-9032-40-02_1 - Parking Brake Cable.

With respect to the work performed, this Airframe is approved for return to service. Details of work performed are on file with Steel Aviation under work order: WO_528.

Jeff Pleiman A/P I/A 3304319