

AIRCRAFT TECHNICAL LOGS

Section 1. AIRFRAME

AIRCRAFT

1. Nationality and Registration N102UV
2. Manufacturer's Designation DA 40
3. Manufacturer's Serial Number 40.549
4. Type Approval or Specification Number A-224/A47CE
5. Date of Manufacture 2005
6. Aircraft Inspection Cycle _____

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.	
BROUGHT FORWARD	0	0	0	0	AIRCRAFT NEW WITH HARTZELL PROPELLER INSTALLED AS PER STC No. SA01952CH. GORLIN



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

SERIAL NUMBER

REGISTRATION MARK

40.549

N102UV



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

16 August, 2005

[Signature] DA Q 42



15 AUGUST 2005 S/N 40.549
COMPASS DEVIATION, ALL ELECTRICS ON

FOR	N	30	60	E	120	150
STEER	001	031	061	090	121	152
FOR	S	210	240	W	300	330
STEER	182	212	241	271	301	331



INDEPENDENT CHECK OF FLIGHT AND POWERPLANT CONTROLS

DATE

INSPECTOR

16 August, 2005

[Signature] DA Q 42

AUG 16 2005	0	0	0	0	AIRCRAFT SERVICEABLE FOR FLIGHT
AUG 16 2005				1.1	
AUG 16 2005				2.4	
AUG 17 2005				2.4	AIRCRAFT SERVICEABLE FOR FLIGHT
AUG 17 2005				3.5	
AUG 17 2005				3.9	
AUG 29 2005				3.9	ALL DISCREPANCIES RECTIFIED



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

I HEREBY CERTIFY THAT THIS AIRCRAFT CONFORMS TO THE APPROVED TYPE DESIGN DATA AND IS IN A FIT AND SAFE STATE FOR FLIGHT.

DATE

INSPECTOR

29 August, 2005

[Signature] DA Q 42

3.9

CARRIED FORWARD

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT	SIGNATURE	LICENCE NUMBER
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		
INTEGRATED AVIONICS SYSTEM INSTALLED AS PER SEC No. SA01254WT		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 16 August, 2005 INSPECTOR DA Q 42



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: AUGUST 2006
BATTERY DUE: OCTOBER 2007

DATE 16 August, 2005 INSPECTOR DA Q 42



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 16 August, 2005 INSPECTOR DA Q 42

		DA Q 42
		CA 386393
		CA 386393
		DA Q 42
		CA 386393
		CA 386393
		DA Q 42



U.S. Standard Airworthiness Certificate, issued:

(Date) SEP 01 2005, has been installed in the aircraft on behalf of NE-MIDO-46 on:

(Date) SEP 01 2005

(Print) A. SALTON (Signature)



INSPECTION, REPAIRS & REPLACEMENT
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN C

WARRANTY DATA CARD

The following information must be supplied when requesting warranty consideration.

Kelly A/S VR2000-28-1
MFR P/N S/N
FED 3-788

DATE INSTALLED *10 FEB 06* DATE REMOVED *3 FEB*

TACH TIME *55.7* TACH TIME

OWNERS NAME _____

ADDRESS _____

PHONE _____

RETAIN THIS CARD WITH AIRCRAFT LOG BOOKS

LICENCE NUMBER

DA Q 42



MODERN AERO, INC.
14801 PIONEER TRAIL
EDEN PRAIRIE, MN 5534
952-941-2595

FAA APPROVED REPAIR STATION MZER198L
N102UV DATE: 2/10/06

PERFORMED A/C MAIN BATTERY CAPACIT
NEW KELLY AEROSPACE VOLTAGE REGUL
S/N FL03788 (P/N VR2000-28-1, S/N F070233 RE
MAIN TIE BUSS CIRCUIT BREAKER (P
INSTALL MISSING ENGINE COWLING C ACCESS DOOR
RECEPTACLE NUT RUN UP, FUNCTIONAL/OPERATIONAL CHECK
SATISFACTORY. REFERENCE MODERN AERO W/O # 33919.

RICK MOLINE

R.M.O.

CRS# MZER198L



AVIONICS OF MODERN AERO, INC
14801 PIONEER TRAIL
EDEN PRAIRIE, MN 55347
952-941-2595

FAA APPROVED REPAIR STATION 05VR353Y
N102UV DATE: 01/25/2006 HOBBS:64.3

Replaced trim servo p/n 065-00178-2500 s/n 8260 with repaired unit
model KS270C p/n 065-00178-2500 s/n 6955. Ramp tested and
found satisfactory.

Avionics of Modern Aero, Inc Eden Prairie, MN 55347
CRS 05VR 353Y W/O# 4437

Frank Nook Frank Nook



AVIONICS OF MODERN AERO, INC
14801 PIONEER TRAIL
EDEN PRAIRIE, MN 55347
952-941-2595

FAA APPROVED REPAIR STATION 05VR353Y
N102UV DATE: 03/10/2006 HOBBS: 79.8

Installed Garmin GDL69A data link system including GA55 XM antenna.
XM weather and audio interfaced to the previously installed Garmin
G1000 avionics system. See FAA form 337 dated this date for further
details. Ramp tested and found satisfactory.

Avionics of Modern Aero, Inc Eden Prairie, MN 55347
CRS 05VR 353Y W/O# 4521

Frank Nook Frank Nook

3. Form

5. Work

11. Ser

Statements in Blocks 14 and 19 do not constitute a warranty specified in Block 1.

AIR TIME AND

DATE

BROUGHT FORWARD



AVIONICS OF MODERN AERO, INC
 14801 PIONEER TRAIL
 EDEN PRAIRIE, MN 55347
 952-941-2595

FAA APPROVED REPAIR STATION 05VR353Y

N102UV

DATE: 02/12/2007

HOBBS: 156.0

Installed Avidyne TAS610 Traffic Advisory System. Installation performed with reference to Ryan International STC #SA1763GL and Avidyne installation Manual. Placed FAA approved flight manual supplement into the aircraft flight manual. See FAA Form 337 dated this date for further details. Ramp tested and found satisfactory.

Avionics of Modern Aero, Inc
 CRS 05VR 353Y

Eden Prairie, MN 55347

W/O# 4984

Frank Nook
 Frank Nook



AVIONICS OF MODERN AERO, INC
 14801 PIONEER TRAIL
 EDEN PRAIRIE, MN 55347
 952-941-2595

FAA APPROVED REPAIR STATION 05VR353Y

N102UV

DATE: 02/12/2007

HOBBS: 156.0

Updated G1000 system software to version 0369.12 per Garmin G1000 Service Bulletin #0622. Replaced G1000 Aircraft Flight Manual Supplement with new p/n 190-00303-02 Revision 11. Also performed minor alteration by installing Bose interface jacks for pilot and copilot positions. Ramp tested and found satisfactory.

Avionics of Modern Aero, Inc
 CRS 05VR 353Y

Eden Prairie, MN 55347

W/O# 4984

Frank Nook
 Frank Nook

A/C Tail #: N102UV	Eng Model: IO-360-M1A	Eng S/N: N/A	Cycles: N/A	Hobbs/Tach Time: 161.2
A/C S/N: 40.549		Landings: N/A		
REMOVED NOSE WHEEL FAIRING. UPDATED WEIGHT AND BALANCE AS NEEDED.				
KEN FISCHBACH <i>Ken Fischbach</i>				
3/14/2007	Modern Aero, Inc. FAA CRS MZER198L	Work Order #: 34983	A/F TT: 161.2	

A/C Tail #: N102UV	Eng Model: IO-360-M1A	Eng S/N: N/A	Cycles: N/A	Hobbs/Tach Time: 165.1
A/C S/N: 40.549		Landings: N/A		
COMPLIED WITH OSB40-50 BY RELOCATING KAP140 EXTERNAL STATIC SOURCE PER OSB-40-50 AND WORK INSTRUCTIONS WI-OSB-40-050. OPERATION CHECK SATISFACTORY.				
KEN FISCHBACH <i>Ken Fischbach</i>				
3/16/2007	Modern Aero, Inc. FAA CRS MZER198L	Work Order #: 34956	A/F TT: 165.1	

CARRIED FORWARD

ENGINEERING RECORD

ENCE
IBER

A/C Tail #: 102UV Eng Model: IO-360-MIA Eng S/N: L-32131 Hobbs Time: 176.1

A/C S/N: 40-549

Installed new Starter per Diamond AMM 80-00-00 PG 207.
S/N F4L-480622 installed. Ops check good. Ok for service

Joe Wing *[Signature]*

3/28/2007 Modern Aero, Inc. FAA CRS MZER198L Work Order #: 35012

A/C Tail #: N102UV Model: DA40 Eng S/N: Cycles: N/A TACH Time: 189.8

A/C S/N: 40.549 Landings: N/A

REMOVED LEFT HAND MAIN WHEEL AND REPLACED LEAKING TUBE WITH NEW TUBE P/N 302-246-401.
REINSTALLED WHEEL ASSEMBLY. REFERENCE MODERN AERO W/O # 35029
MICHAEL WELLE *[Signature]*

4/4/2007 Modern Aero, Inc. FAA CRS MZER198L Work Order #: 35029 A/F TT: 189.8

A/C Tail #: 102UV Model: DA-40 Eng S/N: N/A Cycles: N/A HOBBS Time: 277.4

A/C S/N: 40.549 Landings: N/A

INSTALLED NOSE WHEEL FAIRING. UPDATED WEIGHT AND BALANCE AS NEEDED. REFERENCE MODERN AERO W/O # 34986.
MICHAEL WELLE *[Signature]*

4/24/2007 Modern Aero, Inc. FAA CRS MZER198L Work Order #: 34986 A/F TT: 211.9

N102UV AIRFRAME ACTT: 213.2

INSTALLED NEW DECALS ON NOSE WHEEL FARING. REFERENCE MODERN AERO W/O 35075

KEN FISCHBACH *[Signature]*

4/26/2007 Modern Aero, Inc. FAA CRS MZER198L Work Order #: 35075 A/F TT: 213.2



AVIONICS OF MODERN AERO, INC
 14801 PIONEER TRAIL
 EDEN PRAIRIE, MN 55347
 952-941-2595

FAA APPROVED REPAIR STATION 05VR353Y

RECORD
 AS REQUIRED FOR COM

DATE

N102UV

DATE: 7/11/2007

HOBBS: 342.1

BROUGHT
 FORWARD

Removed TAS610 P/N 70-2420-8 S/N 0701144 and mounting tray.
 Also removed Transponder coupler P/N 70-2040 S/N 0702042.
 Removed TAS610 flight manual supplement. Revised weight and
 balance. See form 337 for additional information. Ramp tested all and
 found satisfactory.

Avionics of Modern Aero, Inc
 CRS 05VR353Y

Eden Prairie, MN 55347
 W/O#5167

Ryan Johnson

Ryan Johnson

A/C Tail #: N102UV	Eng Model:	Eng S/N:	Cycles:	Hobbs/Tach Time: 356.2
A/C S/N: 40.549	Landings:			

Checked aircraft for compliance with A.D. 2007-11-21 (Fuel Selector Universal Joint). Found not applicable based on aircraft serial number.

Don Howard A&P3223610

Don Howard

FEND

7/17/2007

Modern Aero, Inc. FAA CRS MZER198L

Work Order #: N/A

A/F TT: 356.2



Modern Aero, Inc. FAA CRS MZER198L

Work Order #: 35286

7/27/2007

N102UV

DATE: 07/27/2007

HOBBS: 365.2

Installed new R/H nav light bulb PN:34-0428020-65. Operational check satisfactory. Ref. Modern Aero WO# 35286.
 TODD WICK *Todd Wick*

A/C Tail #: N102UV	Eng Model: IO-360-M1A	Eng S/N: L-32131-61A	Cycles: N/A	Hobbs/Tach Time: 258.4
A/C S/N: 40.549	Landings: N/A			

DRAINED OIL AND TOOK OIL SAMPLE. REMOVED AND CUT OPEN OIL FILTER. NO FAULTS FOUND. INSTALLED NEW CH48110-1 OIL FILTER. SERVICED ENGINE WITH 8 QTS. EXXON ELITE 20W50. GROUND RUN AND LEAK CHECK SATISFACTORY. REFERENCE MODERN AERO W/O # 35248.

TODD WICK

Todd Wick

9/5/2007

Modern Aero, Inc. FAA CRS MZER198L

Work Order #: 35286

A/F TT: 258.4

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE NUMBER

The Aircraft, Airframe, Engine, Propeller, Appliance, Radio or Instrument was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and with respect to the work performed is approved for return to service by Modern Aero, Inc. FAA CRS #MZER198L

Jon Wuland
 Authorized By 35395
Work Order

Date: 09/05/07 N# 102UV Acft Hrs: 293.6

A/C Tail #: N102UV	Model: DA-40	Eng S/N: NA	Cycles: NA	Tach Time: 297.1
A/C S/N: 40.549		Hobbs: 395.6		
REMOVED LH MAIN TIRE PN 156E61-3 SN 42990177. INSTALLED NEW TIRE PN 156E66-1 SN 60110945. REINSTALLED WHEEL ASSEMBLY AND SERVICED TIRE TO 35FSI. LEAK CHECK SATISFACTORY PATRICK TOWNSEND <i>Patrick Townsend</i>				
9/10/2007	Modern Aero, inc. FAA CRS MZER198L	Work Order #: 35402	A/F TT: 297.1	

Diamond DA-40 N102UV Hobbs: 391.2
 S/N: 40.549 09-05-07 Tach: 293.6

Completed the following Maintenance:

1. Complied with AD 2007-17-06 by removing the Nose Gear Fork and inspecting the Pivot Axle in accordance with the Diamond Service Bulletin MSB 40-046/1 and Diamond Maintenance Manual Chapter 32-20-00, no cracks noted. Reinstalled the Nose Fork. This AD is next due at 493.6 Total Time or 9-5-2008, whichever occurs first.

Modern Aero, Inc.
 14801 Pioneer Trail
 Eden Prairie, MN 55347
 WO# 35395 Date: 09-05-07 CRS MZER198L

----- End -----

Modern Aero, Inc. FAA CRS MZER198L		Work Order #: 35511	10/19/2007
N102UV	DATE: 10/19/07	TACH: 317.4	
Removed elastomeric spring. Installed 5 new p/n WZ8000-63x50 dampers and 1 new p/n WZ8000-32x40 damper in elastomeric spring. Installed elastomeric spring. Reference Modern Aero w/o # 35511			
Ken Fischbach <i>Ken Fischbach</i>			

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE
NUMBER

8 quarts Ph. 11. psx/c 20w/50 run up and leak check ok. date
 battery ground, removed pannel to facilitate Access to
 pump P/N 5100-00-9 S/N 6147 MFG 9-01-05. Preped
 pinning pig tail, transfer of fuel fitting elbows with
 in Airframe as original P/N 5100-00-9 S/N 5116 installed.
 gravity feed and secured inlet and outlet, applied torque
 check by gavity feed 24 hours with no fuel
 Secured access panels and connected Aircraft
 pump on ground ok no discrepancy noted.
 A/C fast flow n ok for return to service.

Stanley Service AP 3160734

Stanley Service

3160734

New flight Custer III New tubes Aviall order# 0007901121-147006
 reattached interior Cabin fabric per Dmm inspected AK JAW

AK JAW

3160734

AIR TIME AND

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

Brought Forward
Bombardier
Cessna
Diamond
Honeywell
Hawker/Beech



AIRFRAME
 LOG ENTRY

N102UV Diamond DA-40 s/n 40.549 Tach=ACTT: 465.6 Hobbs: 611.5 March 10, 2009
 Engine: Lycoming IO-360-M1A s/n L-32131-51A ETT: 465.6
 Propeller: Hartzell HC-C2YR-1BF s/n CH39027B PTT: 465.6

AIRFRAME

INSPECTIONS, S.B.'s, A.D.'s:

- Performed Annual Inspection IAW FAR 91.409(a) and FAR43 Appendix (D) using Galvin Flying Services checklist.
- Tested and inspected ELT IAW FAR 91.207(d). "Armed" ELT.
- Note: ELT battery expiration date is MARCH 2010.
- Note: ELT remote switch battery is placarded as due Oct. 12, 2013.
- CW AD2007-17-06 recurring inspection of the nose wheel swivel. No defects at this time. Recurring inspection due each 200 hours or annually, whichever is later.
- Complied with "Garmin Integrated Avionics" STC SA01254WI (Factory Installation) Instructions for Continuing Airworthiness, in Garmin System Maintenance Manual Doc. # 190-00545-01 "Limitations" Section 4, para. 4.1: by replacement of five fuses as directed. Due each 24 months.

OTHER MAINTENANCE:

- Gained access to stall horn by removing glareshield. Back-purged water from stall port. Installed glareshield referencing DA40 M.M. Ch. 25-10-00.
- Repaired elongated Camloc hole on L/H wheel pant panel referencing DA40 M.M. Ch. 51-20-00 and 51-30-00. Installed camlock with new retaining collar P/N S3275-300.
- Cleaned areas of right flap inboard upper surface chafing. Spot painted areas. Installed chafe tape to prevent further chafing. Further inspection revealed flap preload is too high. Re-adjusted flap preload and performed flap preload adjustment and travel check I.A.W. Diamond DA-40 M.M. Ch.27-50-00. No defects at this time.

I certify that the items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations, and are approved for return to service with respect to work performed. Pertinent details of this work are on file at the Repair Station under Work Order No. 21007.

Galvin Flying Services, Inc.
 7001 Perimeter Road, Ste 106
 Seattle, WA 98108.
 Repair Station HUNR846E

Signature [Signature] 005 Date MARCH 10, 2009

05 Aug 2009 | 1515 | 3 | 12+12 oil + filter Runup leak check ok AS 1505
 American Avionics 7023 Perimeter Rd. Seattle, Wa 98108 [Signature] 3160934

N 102UV

CERTIFIED AIRWORTHY
 As required by FAR 91.411 and 91.413
 Performed in accordance with FAR Part 43 appendices "E" and "F".

2 Altimeter to 29000 Ft.

1 Altitude Reporting Test

1 Static System Test

1 Integrated System Test

1 ATC Transponder Test + made \$

W/O 62208 Date 3-10-2009

Signed [Signature] Inspector CRS# 1AMR980Y

CARRIED FORWARD

ENGINEERING RECORD

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

03/26/2010 N102UV DA40 S/N 40.549 574.8 Tach
 Complied with AD 2009-10-04, nose gear inspection. No defects noted at this time.
 Removed emergency battery pack P/N D41-2560-93-00 S/N 08-058-602. Installed a new emergency battery pack P/N D41-2560-93-00 S/N 09-124-973. Next replacement is due March 2012.
 Removed right wing tip. Inspected repaired and painted right wing tip. Installed repaired right wing tip referencing DA40 Maintenance Manual Chapter 33-40-00. Operational check of right wing tip lights good at this time.

Signature *[Signature]* A&P 2806462

03/26/2010 N102UV DA40 S/N 40.549 574.8 Tach
 Complied with Diamond MSB 40-054/1, pitot/static and stall warning line modification, utilizing kit P/N MSB-40-054-KIT in accordance with manufacturers instructions. Pitot and static system leak checks completed during IFR certification, found satisfactory. Stall horn operational.

Signature *[Signature]* A&P 2181249

03/26/2010 N102UV DA40 S/N 40.549 574.8 Tach & TTAF
 Performed Annual inspection in accordance with FAR 91.409(a) and FAR 43 Appendix D.
 Replaced overhead speaker with new speaker P/N 176070 referencing DA40 Maintenance Manual Chapter 23-50-00. Operational check good at this time.
 Replaced L/H side window latch with new latch P/N 301.25.4112.
 Replaced ELT batteries with new batteries P/N MN1300 Duracell, next due March 2012.
 Inspected and functionally check ELT per FAR 91.207(d), no defects found.
 Removed old induction air filter. Installed new induction air filter P/N FR-08504. Work performed referencing DA40 Maintenance Manual Chapter 71-60-00.
 AD's checked through this date. AD 2009-07-14 does not apply by aircraft S/N. No other new or recurring due at this time.
 Run up, all operational checks satisfactory at this time.

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

Signature *[Signature]* A&P/IA 538984858

3-31-2010 N102UV DA40 S/N 40.549 TTAF 583.6 Hobbs 755.9
 R+R Gyro Horizon + Glareshield Light strip P/N S/N
 ops check ok. *[Signature]* AP3160734

9/29/2010 N102UV DA40 S/N 40.549 Hobbs meter free run from low battery 821.2 → 939.1 = 117.9 is to be subtracted from Hobbs reading for future reference. *[Signature]* AP3160734

01/21/2011

I have reviewed this Aircraft Document set in preparation for an owner check ride and found it to be compliant with current regulations *[Signature]* 2502758
 AP3160734 IA

AIR TIME AND

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

04/14/2011 **N102UV** **DA40** **S/N 40.549** **680.8 Tach**

Complied with **AD 2009-10-04**, nose gear inspection. No defects noted at this time.
 Replaced L/H side window latch with new latch P/N 301.25.4112.
 Disassembled nose wheel, removed damaged bearing races. Cleaned and inspected wheel and installed new bearing races P/N 08231 and P/N 08125 bearings per Cleveland M/M. Lubed wheel bearings and installed wheel on aircraft.
 Replaced all brake linings with new brake linings P/N 066-14100 referencing DA40 Maintenance Manual Chapter 32-40-00.
 Complied with Diamond DA 40 M/M chapter 4 requirement to replace rudder control cables (5 YR). Installed Diamond kit P/N CS KIT-04, DA 40 Rudder Cable Kit per chapter 27-20-00. Adjusted cable tensions per DA 40 Adjustment Report, figure 6. Checked satisfactory.
 Complied with **AD 2010-25-01** paragraph (f), (1) Inserted Diamond Aircraft Temporary Revision TR-MAM 40-428, Cover page dated April 30, 2010 and (2) Installed Retrofit Retaining Bracket kit, P/N **MSB-40-070-KIT** per Work Instructions WI-MSB-40-070. Functional checked satisfactory.
 Removed broken heater/muffler support bracket and installed new bracket P/N D41-7806-20-01.
 Re-sealed small void on R/H AFT cabin window seal with new sealant.
 Inspected #1 cylinder CHT lead for serviceability and found the internal lead to be secure.
 Resecured CHT lead to existing wiring to prevent further damage.

Signature *[Signature]* A&P 2806462

04/14/2011 **N102UV** **DA40** **S/N 40.549** **680.8 Tach & TTAF**

Performed **Annual** inspection in accordance with FAR 91.409(a) and FAR 43 Appendix D.
 Inspected and tested ELT per FAR 91.207(d).
 I certify that this airframe has been inspected in accordance with an **Annual** inspection and was determined to be in an airworthy condition.

Signature *[Signature]* A&P/IA 3155315

See engine log for A/C boost pump 6/25/2011 703.7 ACT

CARRIED FORWARD

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

SIGNATURE

LICENCE
NUMBER

AIRFRAME LOG



Registration: N102UV Make: Diamond Model: DA-40 S/N: 40.549 Hobbs: 1103.6 Date: 11/29/2011 WO #: A111-0136

Removed Garmin G-1000 mfd P/N 011-00972-00 S/N 86503069 and replaced with new display P/N 011-00972-00 S/N 86500492. Installed Diamond DA-40 software, reconfigured setting to allow for XM weather/radio, fuel pressure indication on mfd, downloaded and installed Jeppesen Nav data. All work accomplished IAW Garmin system maintenance manual 190-00545-00 Rev. E. Ops check good

Weight and balance changes negligible.

Post installation operational checks complied with, no discrepancies noted.

The aircraft and/or components identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and is approved for return to service at this time for the work performed. 14 CFR 43.9

AIRFRAME LOG

Signed:



Registration: N102UV Make: Diamond Model: DA-40 S/N: 40.549 Hobbs: 1106.5 Date: 12/07/2011 WO #: A111-0147

Removed Garmin G-1000 MFD P/N 011-00972-00 S/N 86500492 and installed new MFD P/N 011-00972-00 S/N 86503626.

Complied with Garmin SB-0919 Rev. A IAW STC SA01444W1-D-6 upgrading software to 0321.22.

Reconfigured setting to allow for XM weather/radio, fuel pressure indication on MFD, downloaded and installed Jeppesen Nav data. Weight and balance changes negligible.

Post installation operational checks complied with, no discrepancies noted.

The aircraft and/or components identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and is approved for return to service at this time for the work performed. 14 CFR 43.9

Signed:

David V Pierce, Designated Repair Station Inspector

Hillsboro Aviation Inc. FAA Approved Repair Station # LJER093G
3565 NE Cornell Road, Hillsboro, OR 97124 Phone (503)648-2831
END

Instructions For Continued Airworthiness:

Reference ACK manual P/N E04M Section 10: Rev. 1.5 or later.

Signed:

David V Pierce, Designated Repair Station Inspector

Hillsboro Aviation Inc. FAA Approved Repair Station # LJER093G
3565 NE Cornell Road, Hillsboro, OR 97124 Phone (503)648-2831
END

AIR TIME AND

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

HILLSBORO AVIATION
 Hillsboro Aviation Inc. FAA Approved Repair Station # LJER093G 3565 NE Cornell Road, Hillsboro, OR 97124 Phone (503)648-2831

Airframe Log

N102UV	Make: Diamond	Model: DA40	S/N: 40.549
Date: April 12th, 2012	Tach: 790.8	ACTT: 790.8	WO# M12-0348

Completed **Annual inspection** per FAR 91.409(a) and FAR 43 appendix D. Complied with AD 2009-10-04 by dye penetrant inspection of nose gear leg for cracks per MSB-046/3, no defects found. Next due by 990.8 or annually whichever is later. Installed new emergency battery pack p/n D41-2560-93-00 s/n 10-188-1230. Replacement date is April 2014. Replaced 5 fuses per Limitations section 4 of Garmin System Maintenance Manual Doc. #190-00545-00. Replacement is required every 24 months per Garmin Integrated Avionics STC SA01254WI (factory installed G1000). ELT was upgraded, see previous log entry.

I certify this aircraft has been inspected in accordance with an **Annual inspection** per FAR 91.409(a) and FAR 43 appendix D and was determined to be in airworthy condition at this time. 14CFR43.11CRS#LJER093G

Signed: _____ Designated Repair Station Inspector

END

HILLSBORO AVIATION
 Hillsboro Aviation Inc. FAA Approved Repair Station # LJER093G 3565 NE Cornell Road, Hillsboro, OR 97124 Phone (503)648-2831

Airframe Log

N102UV	Make: Diamond	Model: DA40	S/N: 40.549
Date: Aug. 17th, 2012	Tach: 876.7	ACTT: 876.7	WO# M12-0403

Removed MLG pants, adjusted weight and balance. Installed new Goodyear Flight Special III tire on LH side.

The aircraft and/or component(s) identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and is approved for return to service for the work performed. 14CFR43.9CRS#LJER093G

Signed: _____ Designated Repair Station Inspector

END

HILLSBORO AVIATION
 Hillsboro Aviation Inc. FAA Approved Repair Station # LJER093G 3565 NE Cornell Road, Hillsboro, OR 97124 Phone (503)648-2831

Airframe Log

N102UV	Make: Diamond	Model: DA40	S/N: 40.549
Date: Sept. 20th, 2012	Tach: 880.5	ACTT: 880.5	WO# M12-0411

Installed new wheel pant on LH side, p/n DA4-3215-91-00X01. Pant was painted by the manufacture to match. Reinstalled RH wheel pant. Updated weight and balance to reflect reinstallation of pants.

The aircraft and/or component(s) identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and is approved for return to service for the work performed. 14CFR43.9CRS#LJER093G

Signed: _____ Designated Repair Station Inspector

END

				CARRIED FORWARD
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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.	

AIRFRAME LOG



Registration: N102UV **Make:** Diamond Aircraft **Model:** DA 40 **S/N:** 40.549 **Hobbs:** 1417.9 **Date:** 02/11/2015 **WO #:** M15-0793

Performed preliminary aircraft inspection. Removed Concorde RG24-15M (sn: 40359229) with 1.4 VDC. Unable to recover battery on charger. Installed new RG24-15M battery (sn: 40695501) ref DA-40 AMM § 24-31-00. Ground ran aircraft and checked voltage and amperage output with and without load. No defects noted.

The aircraft and/or components identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and are approved for return to service at this time for the work performed. 14 CFR 43.9

Signed: *Mark Heath*

Mark Heath, Designated Repair Station Inspector

Hillsboro Aviation Inc. FAA Approved Repair Station # LJER093G
3950 NW 264th Ave, Hillsboro, OR 97124 Phone (503)648-2831
END



HILLSBORO AVIATION

Hillsboro Aviation Inc. FAA Approved Repair Station # LJER093G 3950 NW 264th Ave., Hillsboro, OR 97124 Phone (503)648-2831

Airframe Log

N102UV **Make: Diamond** **Model: DA-40** **S/N: 40.549**
Date: 4/22/2015 **Tach: 1020.5** **ACTT: 1020.5** **WO# M15-0897**

Performed the following inspections and/or Bulletins:

Performed Annual inspection per FAR 91.409(a) and FAR 43 appendix D. Performed annual inspection on ELT per Far 91.207(d), no defects noted. Complied with ICA on Garmin GDL 69/69A XM satellite radio IAW drawing 190-00355-00.

Performed the Following Maintenance and Repairs:

Installed new Amerex A620 fire extinguisher, mfg date of 2015. Repaired nose gear fairing using common fiberglass repair methods, painted and reinstalled. Installed (5) new 3.2 amp fuses as required by STC# SA01254W1 per Garmin Manual 190-00545-00. Next due in 24 months or after suspected lightening strike. Installed new emergency battery pack p/n D41-2560-93-00, replacement date is April 2017. Inspected and cleaned fuel gascolator, no debris noted. Cleaned inspected, lubricated with Mobil SHC100 and reinstalled all wheel bearings.

Performed the Following Airworthiness Directives (AD):

Complied with AD 2011-26-04 fuel injection lines inspection reference Lycoming SB 342F, no defects noted, Next due in 100 hrs or after fuel line maintenance. Complied with AD 2009-10-04 Nose landing gear inspection reference Diamond GMBH MSB 40-046/3 no defects noted, due in 200 hours or next annual whichever occurs first.

Approval for Return to Service: I certify this aircraft has been inspected in accordance with an Annual inspection per FAR 43 appendix D and was determined to be in airworthy condition at this time. 14CFR43.11

Signed: *J. J. [Signature]* Designated Repair Station Inspector

END

HILLSBORO AVIATION		Hillsboro Aviation, Inc. FAA Approved Repair Station LJER093G 3950 NW 264th Ave, Hillsboro, OR 97124 (503) 648-2831	
Date:	5/6/2016	Make:	DIAMOND
Registration:	N102UV	Model:	DA-40
Serial:	40.549	Tach/Hobbs:	Hobbs: 1082.6
		WO #:	A116-1031
<p>Preliminary inspection performed in accordance with Hillsboro Aviation Quality Control Manual and FAR145.211. Certified, Pilots Altimeter, Stand-by Altimeter and Transponder, A/C for IFR to 20,000ft as required by FAR 91.411 and FAR 91.413 IAW Part 43, Appendix E and F. Next certification due by May 2018.</p> <p>The aircraft and/or components identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and is approved for return to service at this time for the work performed. 14CFR43.9</p> <p>Signed <u>Christopher Brand</u> Designated Repairman Approved Repair Station # LJER093G</p>			



HILLSBORO AVIATION

Hillsboro Aviation Inc. FAA Approved Repair Station # LJER093G 3950 NW 264th Ave., Hillsboro, OR 97124 Phone (503)648-2831

Airframe Log

N102UV
Date: 5/06/2016

Make: Diamond
Tach: 1082.6

Model: DA-40
ACTT: 1082.6

S/N: 40.549
WO# M16-039

Performed the following inspections and/or Bulletins:

Performed Annual inspection per FAR 91.409(a) and FAR 43 appendix D. Performed annual inspection on ELT per Far 91.207(d), no defects noted. Complied with ICA on Garmin GDL 69/69A XM satellite radio IAW drawing 190-00355-00.

Performed the Following Maintenance and Repairs:

Installed new ELT Battery p/n E-04.0. Replacement date is April 2021. Installed new ELT RCPI Duracell 6 volt lithium battery. Replacement date is May 2024. Inspected and cleaned fuel gascolator, no debris noted. Serviced main tires to 36 psi, nose tire to 29 psi. Serviced brake reservoirs with Mil-H-5606 oil.

Performed the Following Airworthiness Directives (AD):

Complied with AD 2015-19-07 fuel injection lines inspection reference Lycoming SB 342F, no defects noted, Next due in 110 hrs. or after fuel line maintenance. Complied with AD 2009-10-04 Nose landing gear inspection reference Diamond GMBH MSB 40-046/3 no defects noted, due in 200 hours or next annual whichever occurs first.

Approval for Return to Service: I certify this aircraft has been inspected in accordance with an Annual inspection per FAR 43 appendix D and was determined to be in airworthy condition at this time. 14CFR43.11

Signed: Designated Repair Station Inspector

END



HILLSBORO AVIATION

Hillsboro Aviation Inc. FAA Approved Repair Station # LJER093G 3845 NE 30th Ave., Hillsboro, OR 97124 Phone (503) 648-2831

AIRFRAME LOG

Date: 06/10/2016

N102UV

Tach: 1084.3

Make: Diamond

ACTT: 1084.3

Model: DA40

S/N: 40.549

WO# M16-053

Preliminary inspection performed. Removed oil transducer p/n IPT-20RT1-1000-100G and installed new transducer, same p/n, s/n 8321-2-34. Ground ran aircraft, leak checked good with normal oil pressure indications.

The aircraft and/or components identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and is approved for return to service at this time for the work performed. 14CFR43.9

Signed: Designated Repair Station Inspector

END



HILLSBORO AVIATION

Hillsboro Aviation Inc. FAA Approved Repair Station # LJER093G 3845 NE 30th Ave., Hillsboro, OR 97124 Phone (503) 648-2831

AIRFRAME LOG

Date: 11/03/2016

N102UV

Tach: 1112.0

Make: Diamond

ACTT: 1112.0

Model: DA40

S/N: 40.549

WO# M16-111

Preliminary Inspection performed. Removed LH tire and wheel assy. Installed new tire, Goodyear 156E66B1 and tube, 302-246-301. Removed bearings, cleaned, inspected and serviced with SHC100 grease. Balanced assembly. Reinstalled on aircraft. Installed new brake linings on LH and RH wheels, p/n 066-14100. Performed conditioning procedure per Cleveland CMM.

The aircraft and/or components identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and is approved for return to service at this time for the work performed. 14CFR43.9

Signed: Designated Repair Station Inspector

END

AIR TIME AND



HILLSBORO AVIATION

Hillsboro Aviation, Inc.
 FAA Approved Repair Station LJER093G
 3950 NW 264th Ave, Hillsboro, OR 97124
 (503) 648-2831

RECORD
 YES AS REQUIRED FOR COMPLET

Date: **11/21/2016**
 Registration: **N102UV** Make: **DIAMOND** Model: **DA-40**
 Serial: **40.549** Tach/Hobbs: **Hobbs: 1650.3** WO #: **A116-1150**

Preliminary inspection performed in accordance with Hillsboro Aviation Quality Control Manual and FAR 145.211. Verified that the Transponder was inoperative. Entered configuration mode on the G1000 system and reset the Garmin GTX 33 Transponder configuration settings, per Garmin G1000/DA40 System Maintenance Manual 190-00545-01, Rev J. The Transponder was operationally tested and found to comply with FAR Part 43 Appendix F.

The aircraft and/or components identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and is approved for return to service at this time for the work performed. 14CFR43.9

Signed: *Ron Beery*
 Designated Repairman
 Approved Repair Station # LJER093G



HILLSBORO AVIATION

Hillsboro Aviation Inc. FAA Approved Repair Station # LJER093G 3845 NE 30th Ave., Hillsboro, OR 97124 Phone (503)648-2831

Airframe Log

N102UV Make: **Diamond** Model: **DA-40** S/N: **40.549**
 Date: **5/11/2017** Tach: **1123.0** ACTT: **1123.0** WO# **M17-045**

Performed the following inspections and/or Bulletins:

Performed Annual inspection per FAR 91.409(a) and FAR 43 appendix D. Performed annual inspection on ELT per Far 91.207(d), no defects noted. Complied with ICA on Garmin GDL 69/69A XM satellite radio IAW drawing 190-00355-00. Performed ELT inspection per FAR 91.207(d), no defects.

Performed the Following Maintenance and Repairs:

Installed (5) new 3.2 amp fuses as required by STC# SA01254WI per Garmin Manual 190-00545-00. Next due in 24 months or after suspected lightning strike. Installed new RH tire and tube, p/n 156E66B1 and 097-500-0. Installed (1) new bearing and race on nose wheel, p/n 08125-20629 and 08231-20629. Installed new induction air filter, p/n FR-08504. Installed new cooling hose from cowling to battery box.

Performed the Following Airworthiness Directives (AD):

Complied with AD 2015-19-07 fuel injection lines inspection reference Lycoming SB 342F, no defects noted, Next due in 110 hrs. or after fuel line maintenance. Complied with AD 2009-10-04 Nose landing gear inspection reference Diamond GMBH MSB 40-046/3 no defects noted, due in 200 hours or next annual whichever occurs first.

Approval for Return to Service: I certify this aircraft has been inspected in accordance with an Annual inspection per FAR 43 appendix D and was determined to be in airworthy condition at this time. 14CFR43.11

Signed: *J. Marking* Designated Repair Station Inspector

END



HILLSBORO AVIATION

Hillsboro Aviation Inc. FAA Approved Repair Station # LJER093G 3845 NE 30th Ave., Hillsboro, OR 97124 Phone (503) 648-2831

AIRFRAME LOG N102UV Make: **Diamond** Model: **DA40** S/N: **40.549**
 Date: **05/18/2017** Tach: **1123.0** ACTT: **1123.0** WO# **M17-047**

Preliminary Inspection performed. Installed new Emergency battery pack p/n D41-2560-93-00. Expiration date on new pack is May 2019.

The aircraft and/or components identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and is approved for return to service at this time for the work performed. 14CFR43.9

Signed: *J. Marking* Designated Repair Station Inspector

END

CARRIED FORWARD



Hillsboro Aviation Inc. FAA Approved Repair Station # LJER093G 3845 NE 30th Avenue, Hillsboro, OR 97124 Phone (503)648-2831

AIRFRAME LOG **N102UV** **Make: Diamond** **Model: DA-40** **S/N: 40.549**
 Date: September 22, 2017 Flight Meter Time: 1159.5 WO# M17120

Replaced RPM sensor PN 653852. Ops checked RPM indicating system and observed correct indications.
 Ops checked oil pressure indicating system, no defects found at this time.

I certify this aircraft was repaired in accordance with current Federal Aviation Regulations and is approved for return to service for the work described herein.

Designated Repair Station Inspector: *Paul Hopkins*

CRS# LJER093G



Hillsboro Aviation, Inc.

FAA Approved Repair Station LJER093G
 3845 NE 30th Ave, Hillsboro, OR 97124
 503.648.2831

Date: **12/22/2017**
 Registration: **N102UV** Make: **Diamond** Model: **DA-40**
 Serial: **40.549** Tach/Hobbs: **Hobbs 1627.5** WO #: **A171369**

Preliminary inspection performed in accordance with Hillsboro Aviation Quality Control Manual and FAR 145.211.
 Removed the installation of the Garmin GTX 33 Mode S Transponder, P/N 011-00779-00, S/N 84701462. Removed existing tray, and removed GA 55 XM Antenna P/N 011-01033-00, S/N 87504021.

Installed a new Garmin GTX 345R Mode S / ADS-B (In/out) (Internal WAAS Receiver) Transponder (P/N 011-03303-40, S/N 3EH401218) (Remote) in place of the removed GTX 33 Transponder. Enlarged the mounting holes on the rear antenna shelf in the tail, and installed a new Garmin GA 37 WAAS/XM Antenna (P/N 013-00245-00, S/N 16154 on the rear antenna shelf. Connected the GA 37 Antenna to the GTX 345R with a new section of RG-142 Coax Cable. Replined the existing GTX 33 wiring with a new connector for GTX 345R, using existing wiring to the Garmin G1000 System, installed additional interface wiring to the Garmin GIA 1, GIA 2, and the GMA 1347 Audio Panel. The GTX 345R was installed IAW Garmin STC SA01714WI, Garmin GTX 345 Part 23 AML STC Installation Manual 190-00734-10, Rev 8. A GTX 345R AFM Supplement Dated 08 MAR 2016 (190-00734-15 Rev 2) was inserted in the Aircraft Flight Manual. Weight and Balance Change was negligible, Installed Equipment List was amended, dated 21 Dec 2017. An FAA 337 Form Dated 22 Dec 2017 was submitted to the FAA, and provided to the aircraft owner.

The new GTX 345R Installation (P/N 011-03303-40, S/N 3EH401218.) was inspected, tested and found to comply with FAR Part 43 Appendix F, as required by FAR 91.413, and the ADS-B Out function was tested and found to comply with FAR 91.227.

The aircraft and/or components identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and is approved for return to service at this time for the work performed. 14CFR43.9

Signed *Ron Beery*
 Designated Repairman
 Approved Repair Station # LJER093G

AIR TIME AND

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

HILLSBORO AVIATION
 Hillsboro Aviation Inc. FAA Approved Repair Station # LJER093G 3845 NE 30th Ave., Hillsboro, OR 97124 Phone (503) 648-2831

AIRFRAME LOG	N102UV	Make: Diamond	Model: DA40	S/N: 40.549
Date: 04/18/2018	Tach: 1177.2	ACTT: 1177.2	WO# M18233	

Removed failed electric fuel boost pump and installed new CJ Aviation pump p/n 5100-00-9CJ s/n 4141. Ops checked and leak checked good.

The aircraft and/or components identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and is approved for return to service at this time for the work performed. 14CFR43.9

Signed: Designated Repair Station Inspector

END

HILLSBORO AVIATION

Hillsboro Aviation, Inc.
 FAA Approved Repair Station LJER093G
 3845 NE 30th Ave, Hillsboro, OR 97124
 503.648.2831

Date: 5/16/2018	Registration: N102UV	Make: DIAMOND	Model: DA-40	
Serial: 40.549	Tach/Hobbs: Hobbs: 1686.0	Hobbs: 1180.5	WO #: A181474	

Certified A/C Pilot's Garmin G1000 Altimeter and Transponder S/N 86502615, Standby Altimeter S/N 446478 for IFR to 20,000ft as required by FAR 91.411 and FAR 91.413 IAW Part 43, Appendix E and F. Next certification due by May 2020.

The aircraft and/or components identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and is approved for return to service at this time for the work performed.

Signed: Christopher Brand
 Designated Repairman
 Approved Repair Station # LJER093G

HILLSBORO AVIATION
 Hillsboro Aviation Inc. FAA Approved Repair Station # LJER093G 3845 NE 30th Ave., Hillsboro, OR 97124 Phone (503)648-2831

Airframe Log

N102UV	Make: Diamond	Model: DA-40	S/N: 40.549
Date: 5/29/2018	Tach: 1180.5	ACTT: 1180.5	WO# M18247

Performed the following inspections and/or Bulletins:
 Performed Annual inspection per FAR 91.409(a) and FAR 43 appendix D. Complied with 12 month ICA on Garmin GDL 69/69A XM satellite radio IAW drawing 190-00355-00. Performed ELT inspection per FAR 91.207(j), no defects. Battery due replacement April 2021.

Performed the Following Maintenance and Repairs:
 Installed new nose strut p/n D41-3223-10-00-2 s/n CS712580-10000 per Diamond DA41 AMM chapter 32-20-00. Cleaned, inspected and lubricated all wheel bearings with SHC-100 grease. Inspected fuel strainer bowl, no debris found. Leak checked good.

Performed the Following Airworthiness Directives (AD):
 Complied with AD 2015-19-07 fuel injection lines and proper clamping inspection, reference Lycoming SR 342F, no defects noted, Next due in 110 hrs. or after fuel line maintenance. AD 2009-10-04 Nose landing gear inspection is no longer applicable due to new strut p/n D41-3223-10-00-2 installed. AD's checked thru BiWeekly 2018-10.

Approval for Return to Service: I certify this aircraft has been inspected in accordance with an Annual inspection per FAR 43 appendix D and was determined to be in airworthy condition at this time. 14CFR43.11

Signed: Designated Repair Station Inspector

END

				CARRIED FORWARD
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AIR TIME AND

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

Registration	N102UV	ALPINE AVIATION 	Date	July 24, 2020
Make	Diamond		Hobbs	1748.8
Model	DA40		Tach	1269.8
Serial No.	40.549	13310 Nevada City Ave.	TTAF	1269.8
Invoice No.	27579	Grass Valley, CA 95945		
	CRS# XGKR718T	(530) 477-7701		

Description of Inspections, Tests, Repairs, and Alterations.

- 1 Removed damaged LH wing.
- 2 Installed spar bushings in factory supplied wing IAW Diamond aircraft RAM 40-160.
- 3 Installed factory supplied new LH wing assy IAW Diamond Aircraft MM
- 4 Installed new LH flap assy, pn DA4-5751-00-00_01
- 5 Repaired LH wheel fairing damage IAW Diamond Aircraft MM Chap 51
- 6 Painted LH wheel fairing and installed on aircraft.
- 7 Weigh aircraft and revise Aircraft Weight and balance record.

This aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with FAA regulation and is approved for return to service.

Signature *Tim Miller*

CRS# XGKR718T

Registration	N102UV	ALPINE AVIATION 	Date	July 24, 2020
Make	Diamond		Hobbs	1748.8
Model	DA40		Tach	1269.8
Serial No.	40.549	13310 Nevada City Ave.	TTAF	1269.8
Invoice No.	27716	Grass Valley, CA 95945		
	CRS # XGKR718T	(530) 477-7701		

Description of Inspections, Tests, Repairs, and Alterations.

- 1 Altimeter tested Garmin GDC74A s/n 47801835 to 20,000' IAW FAR 43, Appendix E.
- 2 Altimeter tested Standby Untied Instrument s/n 446478 to 20,000' IAW FAR 43, Appendix E.
- 3 Tested Garmin GTX345 transponder s/n 3EH401218.

I certify that the Altimeter System, Altitude Reporting and Transponder tests required by FAR 91.411 and 91.413 have been performed IAW FAR 43, Appendix E & F.

Signature *Tim Miller*

Repair Station No. XGKR718T

CARRIED FORWARD

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE
NUMBER

Registration N102UV
 Make Diamond
 Model DA40
 Serial No. 40.549
 Invoice No. 27716
 CRS# XGKR718T



Date July 24, 2020
 Hobbs 1748.8
 Tach 1269.8
 TTAF 1269.8

Description of Inspections, Tests, Repairs, and Alterations.

- 1 Performed an Annual Inspection IAW Diamond DA40 1000 Hour Maintenance Checklist.
- 2 Serviced airframe IAW Diamond DA40 Maintenance Manual doc # 6.02.01 rev 7.
- 3 Inspected ELT IAW FAR 91.207(d). Battery due April 2021, Remote switch battery due May 2024.
- 4 C/W Performed battery conditioning IAW Concord Battery RG Series Main Aircraft Battery Maintenance Manual, Rev M, battery tested and passed at 89.4%. Capacity test Next due June 2021.
- 5 C/W Essential buss inspection, found airworthy
- 6 C/W bonding & static discharge inspection and found airworthy.
- 7 C/W Garmin GDC Airspeed & Vertical speed function test.
- 8 C/W Bendix King KAP 140 visual and function test.
- 9 C/W 500 hour alternator inspection by Aircraft Electrical Components, & installed alternator.
- 10 C/W Diamond 5 year engine mount bolt corrosion inspection. Replaced all engine mount bolts with new
- 11 C/W 5 year fire extinguisher hydro inspection by Gold country Fire, due April 2025
- 12 C/W Compass calibration, Due July 2021
- 13 Cleaned Induction filter IAW JR cleaning procedures.
- 14 C/W Diamond SB40-033, exhaust system inspection, found airworthy, due 1319.8 tach.
- 15 C/W Diamond 3 year brake fluid replacement, due July 2023
- 16 Replaced alternator ram air ducting with new SCAT 4.
- 17 Replaced cabin heat duct with new SCAT 12.
- 18 Installed new screws in baggage floor.
- 19 C/W Diamond SB40-067, check of emergency exit lever and installed map light IAW SB.
- 20 Replaced pilot map light with new LED bulb.
- 21 Repaired nose wheel fairing, painted nose wheel fairing and installed
- 22 Resealed LH and RH brake calipers with new o-rings and bled brakes.
- 23 Bonded delaminated supports on aft seat pan.
- 24 Replaced RH brake line and fitting in brake caliper.
- 25 Calibrate Garmin GDC IAW Garmin G1000 line maintenance manual.
- 26 Replaced hardware on all control rod ends with new hardware.
- 27 Repaired static leaks @ airspeed indicator.
- 28 Replaced fuel boost pump with new Weldon pn 18002-B.
- 29 Replaced RH wing aft position light bulb and lens with new bulb pn A508-28 & lens pn 68-4250066-30
- 30 Removed GMU44 pn 011-00870-00 s/n 47505303.
- 31 Installed overhauled GMU44 and calibrated. pn 011-00870-00 s/n 4752464.

I certify that this airframe has been inspected in accordance with an Annual Inspection and found to be in airworthy condition.

Signature

CRS# XGKR718T

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE
NUMBER

February 9, 2022 **Hobbs 1871.6**

N102UV
Work Performed: Removed and Reinstalled #1 GIA 63 after repair by Garmin International under W/O# 146532901.
 Rian Keller AP2771007 IA
 Northwest Aircraft Maintenance (503) 648-3670



HILLSBORO AVIATION		Hillsboro Aviation, Inc.	
		FAA Approved Repair Station LIER093G	
		3845 NE 30th Ave, Hillsboro, OR 97124	
		503.648.2831	
Date:	2/9/2022	Make:	DIAMOND
Registration:	N102UV	Model:	DA-40
Serial:	40.549	ACTT/Tach/Hobbs:	HOBBS: 1871.7
		WO #:	A222086

Observed Software match on #1 GIA-63 differs from G1000 Airframe Software v0321.22. Performed software load using Garmin Manual P/N 190-00544-03 Rev 10 dated, May 13, 2013 and Garmin Service Bulletin NO: 0919 Rev A dated, September 21, 2009. Performed satisfactory ground function check on #1 GIA-63 using Garmin Manual 190-00544-03 section 3.3. Tested OK.

END

The aircraft and/or components identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and is approved for return to service at this time for the work performed.

Signed Christopher Brand
 Designated Repairman
 Approved Repair Station # LIER093G

HILLSBORO AVIATION		Hillsboro Aviation, Inc.	
		FAA Approved Repair Station LIER093G	
		3845 NE 30th Ave, Hillsboro, OR 97124	
		503.648.2831	
Date:	8/2/2022	Make:	DIAMOND
Registration:	N102UV	Model:	DA-40
Serial:	40.549	ACTT/Tach/Hobbs:	TACH: 1386.3
		WO #:	A222141

Certified A/C ADC S/N: 47801835, Standby Altimeter S/N: 446478 and Garmin GTX 345 Transponder S/N: 3EH401218 for IFR to 20,000ft as required by FAR 91.411 and FAR 91.413 IAW Part 43, Appendix E and F. **Next certification due by August 2024**

END

The aircraft and/or components identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and is approved for return to service at this time for the work performed.

Signed Christopher Brand
 Designated Repairman
 Approved Repair Station # LIER093G

August 3rd, 2022 **Tach: 1386.3 Aircraft Total: 1386.3 Hobbs 1898.1**

Complied with an ANNUAL inspection I/A/W 14 CRF 43 Apdx D and DA 40 Maintenance Manual chapter 4 and 5 as a reference.

Aircraft serviced and inspected - fuel screens cleaned -tires inflated -controls, pulleys, hinges lubricated - landing gear checked - brake fluid level checked - EIT inspected and tested I/A/W FAR 91.207 (d) 1-4. Battery due Aug. 2026.

Additional Work Performed: JR air filter cleaned and serviced. Tested all static wicks. Installed new main battery RG24-15M. Battery s/n 41219874. Re-attached speaker grill. Corrected data on LH wing fuel placard. Inspected exhaust system per MSB40-033. Next due in 50 hrs. Adjusted nose wheel swivel friction to 10 lbs.

See AD list in aircraft records. AD 2014-13-08 due before 2000 hours total or Feb. 2024.

I certify that this Aircraft has been inspected in accordance with an **Annual** inspection and has been found to be in Airworthy condition at this time.

John Norling AP3046424 IA
 Northwest Aircraft Maintenance Inc. (503) 648-3670



