

# AIRCRAFT TECHNICAL RECORD

## Section 1. AIRFRAME LOG

AIRCRAFT DATA

1. Nationality & Registration N38CF
2. Manufacturer's Designation (Make & Model) Diamond DA-40
3. Manufacturer's Serial Number 40.567
4. Type Approval or Specification Number \_\_\_\_\_
5. Date of Manufacture 2005
6. Aircraft Inspection Cycle \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# 1: Airframe Log

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

DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)

**Kane Aviation LLC**  
 22 Waypoint Dr NW  
 Roanoke, VA 24012

**Airframe:** Date: 1/10/2024 Tail#: N38CF  
 A/C Make/Model: Diamond DA40  
 A/C S/N: 40.567 Tach Time: 5976.8 Total Time: 7377.0


**Work Performed:** Cleaned, inspected, and serviced all wheel bearings. Removed wings. Replaced fuel tank connection hoses. Replaced push rod rollers in the wings. Installed new fuel probe in the right wing. Installed wings and checked flight control limits on flaps and ailerons. Inspected and lubricated all flight controls. Installed new Hartzell ALU-8321 alternator. Installed new heavy duty nose fork. Installed new rear rudder cables. Installed LED landing and taxi lights per Diamond WI-OSB 40-077. Installed LED nav and strobe lights per Diamond WI-OSB 40-088 REV 1. Replaced aircraft battery after failing ICA check. Replaced emergency battery. Differential compression test performed results as follows: #1:74/80, #2:70/80, #3:72/80, #4:75/80. Performed Diamond WI-OSB 40-057 REV 1 for weight increase to 2646 pounds. Weighed the aircraft for new weight and balance see W/B form dated for 1/8/24. Weight is 1737.00 Moment 167462.19.

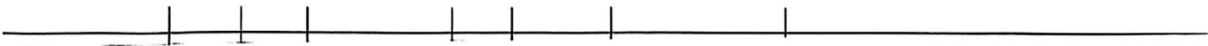
**Complied with the following ICAs:**  
 Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No 5-0171, no defects  
 Instructions listed in Garmin Drawing No. 190-00545-01  
 Essential bus inspection. Next due at TACH: 6976.8  
 Electrical Bonding Inspection next due at TACH: 6976.8  
 Emergency battery. Next due by Dec 2025

Complied with AD15-19-07 External Fuel Injector Lines, effective 11/03/15 by visual inspection, next due by TACH: 6086.8.

Performed ground run and leak check, no leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.


  
 William Painter A&P31706951A



**Kane Aviation LLC**  
 22 Waypoint Dr NW  
 Roanoke, VA 24012

**Airframe** Date: 1/10/2024 Tail #: N38CF  
 A/C Make/Model: Diamond DA40  
 A/C S/N: 40.567 Tach Time: 5976.8  
 Total Time: 7377.0

**Work Performed:** I certify this aircraft has been serviced and inspected I/R/T an **Annual Inspection** I/R/T Diamond DA40 Maintenance Manual and FAR AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.

  
 William Painter A&P31706951A

**Kane Aviation LLC**  
 22 Waypoint Dr NW  
 Roanoke, VA 24012

**Airframe** Date: 1/10/2024 Tail #: N38CF  
 A/C Make/Model: Diamond DA40  
 A/C S/N: 40.567 Tach Time: 5976.8

**Work Performed:** Inspected and tested the ACK Technologies E-04, S/N: unreadable system in this aircraft according to applicable Aircraft and ELT manufactures instructions and applicable FAA guidance and found it meets the requirements of FAR 91.207 (d). **Battery due replacement by July 8 2027. Remote battery due Mar 2029.**

In reference to the work listed above, this ELT was found to be in an airworthy condition and is approved for return to service.

  
 William Painter A&P31706951A

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 12/8/2023 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.467 Total Tach Time: 5976.8

**Work Performed:** Conducted bonding inspection with no outstanding discrepancies next due at 6976.8

Inspected essential bus found no deficiencies. Next inspection due at 6976.8

Complied with AD93-05-06 by complying with SB92-01 revision E next due 7976.8

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

NAME/  
SIGNATURE

LICENCE:  
AME or  
AMO/ACA



Freedom Aviation  
310 Hangar Road  
Lynchburg, VA 24502  
(434) 237-8434  
CRS# BGSR439C

Date: 01/26/2024  
Aircraft: N38CF  
Type: DA-40 SN: 40.567  
Hobbs: 9777.7  
WO: A24-1015

1

**Airframe Entries**

I certify that this altimeter system, static system test required by 14 CFR 91.411 have been performed and comply with 14 CFR part 43 Appendix E. Altimeter was tested to 20,000 Ft. Altitude reporting system test to 20,000 Ft.

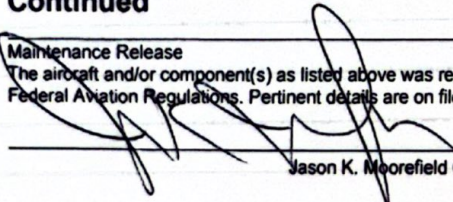
I certify that this transponder test required by 14 CFR 91.413 have been performed and found to comply with 14 CFR Part 43, Appendix F.

Make/Model: Garmin GTX345R  
SN# 3EH421183; Mode: A/C/S

**Continued**

**Maintenance Release**

The aircraft and/or component(s) as listed above was repaired and inspected in accordance with current Federal Aviation Regulations. Pertinent details are on file at this repair station.



Jason K. Moorefield CRS# BGSR439C

# Section 1: Airframe Log

DATE / /	AIR TIME		LANDINGS / CYCLES		DETAILS OF WORK (INSPECTION, REPAIRS & REPLACEMENT)
	DAILY TOTAL	TOTAL	DAILY TOTAL	TOTAL	
3/25/2024				2	



Freedom Aviation  
 310 Hangar Road  
 Lynchburg, VA 24502  
 (434) 237-8434  
 CRS# BGSR439C

Date: 03/25/2024  
 Aircraft: N38CF  
 Type: DA-40 SN: 40.567  
 Hobbs: 9777.7  
 WO: A24-1015

## Airframe Entries

Ramp checked and found that the GMA1347 Audio panel was working but the system was giving a failure and manifest failure message. Gained access to the G1000 Maintenance mode. Found that the installed Audio panel does not contain the correct software to match the system manifest. Loaded the correct system software to the GMA1347 Audio panel and the warnings about the GMA1 Audio panel are no longer present. This work performed as per Garmin G1000 LMM# 190-00545-01 with no defects noted.

**End.**

### Maintenance Release

The aircraft and/or component(s) as listed above was repaired and inspected in accordance with current Federal Aviation Regulations. Pertinent details are on file at this repair station.

*Jason K. Moore*  
 Jason K. Moorefield CRS# BGSR439C

Kane Aviation LLC  
 22 Waypoint Dr NW  
 Roanoke, VA 24012

Airframe Date: 3/25/2024 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6061.6 Total Time: 7461.8

**Work Performed:** Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Replaced instrument and flood light (P/N: DA4-3311-10-02). Replaced canopy door closed switch assembly (P/N: DA4-5271-60-00). Replaced right side main tire with retreaded tire from Wilkerson company, inc. (P/N: 606C66-8 S/N: 63572069 W/O: 53754945) and tire tube with a Goodyear 6.00-6 tube. Replaced inside right side static wick. Complied with Instructions listed in Conquest RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time. All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.

*Scott Emmons*  
 Scott Emmons A&P 4560305

Kane Aviation LLC  
 22 Waypoint Dr NW  
 Roanoke, VA 24012

Airframe Date: 3/25/2024 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6061.6 Total Time: 7461.8

**Work Performed:** I certify this aircraft has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.

*Scott Emmons*  
 Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 4/8/2024 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.467 Total Tach Time: 6085.9

**Work Performed:** Replaced com. adjustment knob on PFD G1000 screen.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: ~~4/8/2024~~ <sup>5/23/2024</sup> Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6151.4 Total Time: 7551.6

**Work Performed:** Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Installed new jack plate on pilot side. Replaced muffler brace P/N: D41-7806-20-01. Replaced top and bottom exhaust clamps on cylinders #1 and 3. Replaced nose wheel assembly with a serviceable assembly. Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time. All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

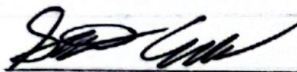
Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: ~~4/8/2024~~ <sup>5/23/2024</sup> Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6151.4 Total Time: 7551.6

**Work Performed:** I certify this aircraft has been serviced and inspected I/A/W a **100 Hour Inspection** I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 2/1/2024 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6237.4 Total Time: 7637.6

**Work Performed:** Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Touched up fire paint on the bottom cowling. Installed new bonding strap on the flap motor. **Completed MSI Inspection next due at 10237.4** Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time. All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

# Section 1: Airframe Log

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 8/22/2024 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6328.0 Total Time: 7728.2


Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 2/1/2024 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6237.4 Total Time: 7637.6

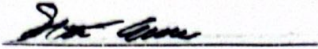
**Work Performed:** I certify this aircraft has been serviced and inspected I/A/W a **100 Hour Inspection** I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

**Work Performed:** Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Replaced Fuel filter "O" ring P/N: ORO375. Installed new jack point base P/N: DV2-1200-00-2 on the co-pilot side. Installed serviceable caliper cylinder P/N: 061-16200 on copilot side. Installed two new anchor bolts P/N: 069-01900 with new mounting hardware. Installed two new brake liners P/N: 066-14100 on the copilot side. Installed new Pressure plate P/N: 063-0500 on the copilot side. Installed new back plate P/N: 064-00500 on copilot side. Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time. All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

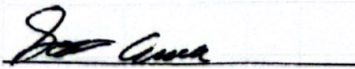
Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 8/22/2024 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6328.0 Total Time:  
7728.2

**Work Performed:** I certify this aircraft has been serviced and inspected I/A/W a **100 Hour Inspection** I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305



**Freedom Aviation**  
 310 Hangar Road  
 Lynchburg, VA 24502  
 (434) 237-8434  
 CRS# BGSR439C

Date: 09/04/2024  
 Aircraft: N38CF  
 Type: DA40 SN: 40.567  
 Hobbs: 228.0  
 WO: A24-1211

1

NAME/  
SIGNATURE

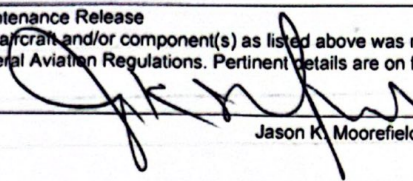
LICENCE:  
AME or  
AMO/ACA

**Airframe Entries**

Inspected the engine RPM tachometer output on the magneto. Noted that the Tach connector was tied up tightly to the ignition harness. Re-routed the engine tachometer sensor harness away from the ignition harness. Tested continuity from the tachometer harness to the GEA74 engine adapter with no defects noted. Replaced the cowling and ran the engine several different times with no further loss of the RPM display. The G1000 tachometer display ramp checked good. This work performed as per the G1000 Diamond LMM# 190-00545-01.  
**End.**

**Maintenance Release**

The aircraft and/or component(s) as listed above was repaired and inspected in accordance with current Federal Aviation Regulations. Pertinent details are on file at this repair station.

  
 Jason K. Moorefield CRS# BGSR439C

**Kane Aviation LLC**  
 22 Waypoint Dr NW  
 Roanoke, VA 24012

Airframe Date: 9/25/2024 Tail #: N38CF


A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Total Tach Time: 6379.8

**Work Performed:** Replaced PFD fan with new replacement fan.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.

  
 Scott Emmons A&P 4560305

**Kane Aviation LLC**  
 22 Waypoint Dr NW  
 Roanoke, VA 24012


Airframe Date: 11/01/2024 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6425.4 Total Time: 7825.6

**Work Performed:** Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. **Performed bonding check and essential next due at 7425.4 tach time. Installed new back up battery next due at 11/01/2026.** Installed serviceable ACS ignition switch (P/N: A-510-2 manufacture date 08-24-11). ACS service bulletin SB92-01 was completed at the time of installation and is due at 8425.4 tach time. Removed rear pilot side vent tightened it against the housing and reinstalled. Replaced static discharge wick on inner left wing. Installed new brake liners (P/N: 066-14100) on pilot side. Replaced all grease seal rings (153-0090) on pilot side main wheel. Installed retreaded tire on pilot side main wheel (P/N: 070-314-0 W/O: 57176463) Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time. All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.

  
 Scott Emmons A&P 4560305

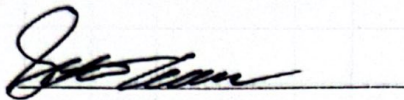
Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 11/01/2024 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6425.4 Total Time: 7825.6

**Work Performed:** I certify this aircraft has been serviced and inspected I/A/W a **100 Hour Inspection** I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 12/3/2024 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.467 Total Tach Time: 6477.5

**Work Performed:** adjusted door sensor for rear passenger door. Tightened headphone jack for position #3.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 1/11/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6515.7 Total Time: 7915.9

**Work Performed:** Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Removed rear Cowling side vent tightened it against the housing and reinstalled. Installed new bulb in flap position lights for landing position. Tightened stop nut on ignition switch. Installed new carbon monoxide detector. Repaired 1/2 inch hole in bottom cowling. Removed damaged fire paint and applied new fire paint in its place. Adjusted rudder cable tension into spec. Installed new switch for landing light. Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time. All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305


Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 1/11/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6515.7 Total Time: 7915.9

**Work Performed:** I certify this aircraft has been serviced and inspected I/A/W a **100 Hour Inspection** I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

**Airframe:** Date: 2/10/2025 Tail#: N38CF  
A/C Make/Model: Diamond DA40  
A/C S/N: 40.567 Tach Time: 6560.1 Total Time: 7960.3

**Work Performed:** Cleaned, inspected, and serviced all wheel bearings. Replaced left main tire. Replaced alternator brush block assembly. Replaced cylinder 2 EGT probe. Replaced nose gear stop block. Inspected and lubricated all flight controls. Differential compression test performed results as follows: #1:78/80, #2:78/80, #3:79/80, #4:77/80.

**Complied with the following ICAs:**  
Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171, no defects  
Instructions listed in Garmin Drawing No. 190-00545-01  
Essential bus inspection. Next due at TACH: 6976.8  
Electrical Bonding Inspection next due at TACH: 6976.8  
Emergency battery. Next due by Nov 2026  
MSI inspection next due 10237.4

Complied with AD15-19-07 External Fuel Injector Lines, effective 11/03/15 by visual inspection, next due by TACH: 6670.1.

Performed ground run and leak check, no leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.

  
William Painter A&P31706951A

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

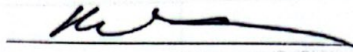
**Airframe** Date: 2/10/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6560.1

Total Time: 7960.3

**Work Performed:** I certify this aircraft has been serviced and inspected I/R/T an **Annual Inspection** I/R/T Diamond DA40 Maintenance Manual and FAR AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.

  
William Painter A&P31706951A

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

**Airframe** Date: 2/10/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6560.1

**Work Performed:** Inspected and tested the ACK Technologies E-04, (S/N: unreadable) system in this aircraft according to applicable Aircraft and ELT manufactures instructions and applicable FAA guidance and found it meets the requirements of FAR 91.207 (d). **Battery due replacement by July 8 2027. Remote battery due Mar 2029. Speaker Battery Due Dec 2032.**

In reference to the work listed above, this ELT was found to be in an airworthy condition and is approved for return to service.

  
William Painter A&P31706951A

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

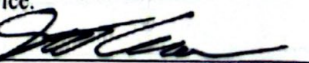
**Airframe** Date: 4/11/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6656.6 Total Time: 8056.8

**Work Performed:** Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Repaired cosmetic damage to paint on bottom cowl. Installed RA066-14100 brake liners on copilot's side. Installed new RG24-15M Concord Battery. Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time. All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.

  
Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 4/11/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6656.6 Total Time: 8056.8

**Work Performed:** I certify this aircraft has been serviced and inspected I/A/W a **100 Hour Inspection I/R/T** Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 5/7/2025 Tail #: N38CF

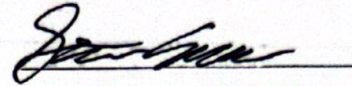
A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Total Tach Time: 6729.9

**Work Performed:** removed old, dried adhesive from pilots side armrest. Cleaned surfaces and installed new adhesive and reinstalled the armrest.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 5/22/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6749.3 Total Time: 8149.5

**Work Performed:** Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Replaced muffler (P/N: D4-7806-20-01). Installed new seat tubing from heat hanger to the firewall of the aircraft. installed new replacement purge knob (P/N: \*430-0035-10\*) on the MFD. Complied with instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time. All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 5/22/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6749.3 Total Time: 8149.5

**Work Performed:** I certify this aircraft has been serviced and inspected I/A/W a **100 Hour Inspection I/R/T** Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012


Airframe Date: 6/23/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.467 Total Tach Time: 6831.8

**Work Performed:** Disabled auto pilot. Placarded autopilot and electronic trim INOP.

All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 7/2/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6845.2 Total Time: 8245.3

**Work Performed:** Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Replaced toggle switch for landing light. Removed debris from battery box drain. Replaced o ring on the fuel gascolator. Replaced seat tube from cowl opening to the battery box. Installed new o-ring in right brake caliper and bled brake fluid. Replaced brake liners on right and left side. Installed new middle left side brake line clamp. Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time. All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 7/2/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6845.2 Total Time: 8245.3

**Work Performed:** I certify this aircraft has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 8/29/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6936.9 Total Time: 8337.0

**Work Performed:** Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls Replaced seat tube from cowl opening to the Alternator and from the heat exchanger to the fire wall. Cleaned debris out of auto pilot buttons and tested, auto pilot is now operable. Removed old fire paint and repainted. Installed repaired exhaust riser(P/N: DA40-3) on exhaust system. Installed new brake rotor(P/N: RA164-24400) on co-pilot side main. Rotated right and left main tires on the wheels to maintain proper wear. Replaced snap ring and grease seals on co-pilot side main wheel. Installed new muffler brace(P/N: D41-7806-20-01). Replace all 4 main landing gear bolts(P/N: LN9037-10090). Installed new Garmin OAT sensor(P/N:011-00978-00). Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time. All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

# Section 1: Airframe Log

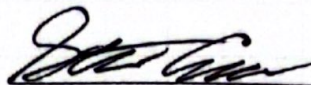
Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date 8/29/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 6936.9 Total Time: 8337.0

**Work Performed:** I certify this aircraft has been serviced and inspected I/A/W a **100 Hour Inspection** I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date 9/1/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Total Tach Time: 6942.5

**Work Performed:** dressed end of broken field wire and applied new connector. Disabled auto pilot and installed placards saying such.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date 9/2/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Total Tach Time: 6944.4

**Work Performed:** dressed end of broken main tie wire installed new connector. Installed new alternator brushes. Installed new Adel clamp to hold alternator wires in place

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date 10/2/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 7012.7 Total Time: 8412.8

**Work Performed:** Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Installed new brake rotor(P/N: RA164-24400) on pilot side main. Installed new brake liners(P/N: RA066-14100) on pilot side. Installed new tire(P/N: 072-314-0) on pilot side. Replaced cone(P/N: 13889-20629)and cup(P/N: 13836-20629)bearings on the disk side of the pilot side wheel. Installed new O-ring(MS28775-224) in the co-pilot brake caliper. Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time. All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC  
22 Waypoint Dr NW  
Roanoke, VA 24012

Airframe Date: 10/2/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 7012.7 Total Time: 8412.8

**Work Performed:** I certify this aircraft has been serviced and inspected I/A/W a **100 Hour Inspection** I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Airframe Date: 11/4/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Total Tach Time: 7070.5

**Work Performed:** installed new map light on pilot side P/N: D60-3313-11-00\_01.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Airframe Date: 11/26/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 7105.2 Total Time: 8505.3

**Work Performed:** Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Installed new brake liners(RA066-14100) on copilot side. Installed new nose wheel 5.00-5/6 tire. Installed new GL-5067B Cose wheel tire tube. Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time. All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



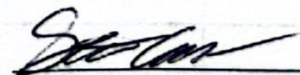
Scott Emmons A&P 4560305

Airframe Date: 11/26/2025 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 7105.2 Total Time: 8505.3

**Work Performed:** I certify this aircraft has been serviced and inspected I/A/W a **100 Hour Inspection** I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

# Section 1: Airframe Log

ES

L

DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)

Airframe Date: 12/9/2025 Tail #: N38CF


A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Total Tach Time: 7116.6

**Work Performed:** Installed new rudder pedal adjustment cable (P/N: 20-2700-21-00).

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305



**Freedom Aviation**  
310 Hangar Road  
Lynchburg, VA 24502  
(434) 237-8434  
CRS# BGSR439C

Date: 01/07/2026  
Aircraft: N38CF  
Type: DA40 SN: 40.567  
Hobbs: 1516.4  
WO: A26-0103

1

**Airframe Entries**

I certify that this altimeter system, static system test required by 14 CFR 91.411 have been performed and comply with 14 CFR part 43 Appendix E.

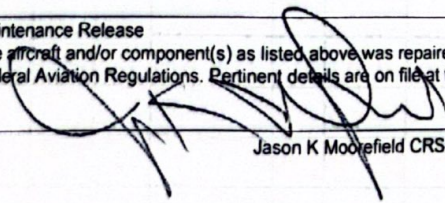
Altimeter was tested to 20,000 Ft.  
Altitude reporting system test to 20,000 Ft.

I certify that this transponder test required by 14 CFR 91.413 have been performed and found to comply with 14 CFR Part 43, Appendix F.

Make/Model: Garmin GTX345R  
SN: 3EH421183; Mode: A/C/S  
End.

**Maintenance Release**

The aircraft and/or component(s) as listed above was repaired and inspected in accordance with current Federal Aviation Regulations. Pertinent details are on file at this repair station.



Jason K Moorefield CRS# BGSR439C

PAGE TOTALS

CARRY FORWARD to Top of Next Page

**Kane Aviation LLC**  
22 Waypoint Dr NW  
Roanoke, VA 24012

**Airframe** Date: 1/5/2026 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Tach Time: 7141.0

**Work Performed:** Replace the Left Main tire and Tube

This aircraft was found to be in an airworthy condition and is approved for return to service.



William Painter A&P31706951A

**Airframe** Date: 2/20/2026 Tail #: N38CF

A/C Make/Model: Diamond DA40

A/C S/N: 40.567 Total Tach Time: 7200.7

**Work Performed:** Replaced auto pilot disconnect button on pilot stick.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305