

42.AC069

N687ML

AIRCRAFT TECHNICAL RECORD

Section 1. AIRFRAME LOG

02

AIRCRAFT

- | | |
|---|--------------|
| 1. Nationality and Registration : | N590ER |
| 2. Manufacturer's designation : | DA 42 NG |
| 3. Manufacturer's Serial Number: | 42.AC069 |
| 4. Type Approval or Specification Number: | A57CE Rev.29 |
| 5. Date of Manufacture : | Aug 2007 |
| 6. Aircraft Inspections cycle: | |



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							



AMO 161-93

Aircraft Reg: N590ER
Work Order: SO072539

Date: March 15, 2021

Airframe	Manufacturer	Model	SN	TSN:	5693.0 Hrs
LH Engine	Diamond	DA 42 NG	42 AC069	TSN:	359.9 Hrs
RH Engine	Austro	E4-B	E4-B-00142	TSN:	359.9 Hrs
LH Prop	Austro	E4-B	E4-B-00291	TSOH	0.00 Hrs.
RH Prop	Mt-Propeller	MTV-6-R-C-F/CF187-129	110860	TSOH:	0.00 Hrs.
	Mt-Propeller	MTV-6-R-C-F/CF187-129	080179		

Closed the Aircraft Technical Logs number 01 - Section 1, Airframe:

The last inspections are described below:

- Complied 100H Inspection by ERAU Maintenance, W/O 201901884 on 2019-08-30, TSN: 5614.8H.
- Repaired LH wing walk area in accordance to Diamond factory RAM 42-243 on 2018-01-31, TSN: 5373.4H.
- Complied 1000H inspection by EMBRY, W/O 201801305 on 2018-07-12, TSN: 5114.5H.

Signature: _____

ACA



PAGE
TOTALS

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Aircraft Reg: N590ER
Work Order: S0072539

Date: March 19, 2021

AMO 161-93	Manufacturer	Model	SN	
Airframe	Diamond	DA 42 NG	42.AC069	
LH Engine	Austro	E4-B	E4-B-00142	TSN: 5693.0 Hrs
RH Engine	Austro	E4-B	E4-B-00291	TSN: 359.9 Hrs
LH Prop	Mt-Propeller	MTV-6-R-C-F/CF187-129	110860	TSN: 359.9 Hrs
RH Prop	Mt-Propeller	MTV-6-R-C-F/CF187-129	080179	TSOH: 0.00 Hrs.
				TSOH: 0.00 Hrs.

The Following work was performed:

• 2000 hr. inspection carried out IAW DA42NG AMM Doc. 7.02.15 Rev 4.

- MSI inspection carried out IAW DA42NG AMM Doc. 7.02.15 Rev 4. Next due at 9693.0 Hrs or Mar 2033
- GTX345 installed IAW Garmin STC SA01714VM - FAA 337 Form dated Mar 19, 2021
- GTX345 installed IAW Diamond Aircraft OAM42-094/L - FAA 337 Form dated Mar 19, 2021
- Avidyne Tas 600 installed IAW Diamond Aircraft OAM 42-102 rev J & OAM 42-210 rev D for GSM 86 servos - FAA 337 Form dated Mar 19, 2021
- Removed system components and associated wiring for Bendix King KAP140 autopilot system. - FAA 337 Form dated Mar 19, 2021
- Garmin GFC 700 installed IAW Diamond Aircraft OAM 42-116/a. - FAA 337 Form dated Mar 19, 2021
- Garmin GDL 69A installed IAW Diamond OAM 42-288/a - FAA 337 Form dated Mar 19, 2021
- Garmin GDL 90 system and all of its components removed - FAA 337 Form dated Mar 19, 2021
- Hobbs meter and aux power port removed from instrument panel - FAA 337 Form dated Mar 19, 2021
- Electric rudder pedals installed IAW OAM 42-070/o - FAA 337 Form dated Mar 19, 2021
- Aux fuel tanks installed IAW OAM 42-056 rev X - FAA 337 Form dated Mar 19, 2021
- Tail boy canopy bubble and sun visors installed IAW OAM 42-124. - FAA 337 Form dated Mar 19, 2021
- Instrument panel Grey RAL7039 EL Placards replaced with Black No.37038 EL Placards IAW OAM 42-359 - FAA 337 Form dated Mar 19, 2021
- Landing gear mute installed IAW OAM 42-053/ab and DPS 0.09.018E, Ch. 1, 2, 3 & 4 - FAA 337 Form dated Mar 19, 2021
- Ice protection system installed IAW OAM 42-053/ab and DPS 0.09.018E, Ch. 1, 2, 3 & 4 - FAA 337 Form dated Mar 19, 2021

The following ice protection system components installed are serviceable from 42.AC123 (N834MA) with 1128.7 Hrs TSN

- o Windshield pump panel assembly PN: D60-3013-11-00
- o Main pump panel assembly PN: D60-3013-12-00
- o TKS tank assembly PN: D60-3013-24-50
- o Proportioning unit (Qty 2) PN: PU300DW142, SN LH: AST06M970 / SN RH: AST07A695
- o Low pressure switch assembly PN: D60-9030-00-32, SN: AST07-0804
- o High pressure switch assembly PN: P0416D850, SN: AST06K1613
- o Vertical stabilizer ice protection panel PN: 12102-37, SN: AST07E833
- o Manifold block PN: MN6821
- o De-ice control box PN: DA1-9030-00-01, SN: 314
- o De-ice control panel PN: D60-3111-22-00
- o De-ice deflector PN: D60-3044-90-00
- o LH wing replaced with wing from 42.AC123 with pre-installed ice protection panels PN: D60-5721-00-00x01, SN: 445 with 1127.8 Hrs TT
- o RH wing replaced with wing from 42.AC123 with pre-installed ice protection panels PN: D60-5722-00-00x01, SN: 445 with 1127.8 Hrs TT
- o Horizontal stab replaced with stab from 42.AC123 with pre-installed ice protection panels PN: D60-5510-00-00x03, with 1127.8 Hrs TT

The following ice protection system components are NEW

- o Ice protection system filters PN: F508_R (Qty 2). Next replacement due 7693.0 hrs
- o Windshield spray bar PN: D60-9030-00-24
- o #2 windshield pump replaced PN: WP209A SN: AST07B430, SN on: CAVI20C40052
- RH wing inboard & RH horizontal stabilizer TKS panels removed, re-sealed on inside seams, leak tested and re-installed
- O/H propellers installed PN: MTV-6-R-C-F/CF187-129, LH - SN on: 110860 / RH SN on: 080179 installed
- Engines replaced PN: E4B, LH eng SN on: E4-B-00142 with 359.9 hrs TT / RH eng SN on: E4-B-00291 with 369.9 hrs TT installed
- O/H propeller unfeathering accumulators PN: P-693-1, LH - SN: 11A135 & RH - SN: 18A170 installed
- O/H propeller governors PN: P-877-16, LH - SN: 19G921-1/C & RH - SN: 11G575-H/G installed
- Engine cowlings fire paint repaired IAW RAL42-256
- Fire extinguisher replaced PN: A620T SN: F-75023710, Weight 2.28lbs or 1.034kg. Next replacement due Mar 2031
- Emergency battery pack replaced. Next replacement due Mar 2023
- ECU backup batteries replaced. Next replacement due Mar 2022
- Main battery replaced PN: RG24-15M, SN: 41685722
- New first aid kit supplied in aircraft
- Engine fuel feed pumps replaced. Next replacement due at 6093.0 Hrs
- Engine fuel feed pump check valves installed. Next replacement due at 6093.0 Hrs
- LH/RH fuel filter elements replaced.
- Original Main fuel tank assemblies PN: D60-5721-00-00x01 removed from original wings. Fuel tank vent and interconnect hoses replaced. and tank assemblies installed into replacement D60-5721-00-00x01 wings (listed above as part of De-ice system installation)
- Hydraulic reservoir air filter check carried out.
- Hydraulic system filter replaced.
- Hydraulic fluid in brake system replaced with new MIL-H-8326
- Hydraulic system fluid replaced with new MIL-H-8326 Hydraulic fluid.
- Hydraulic fluid in landing gear dampers replaced with new MIL-H-8326.
- Hydraulic system dump valve PN: X11-0003-01-04.00 replaced.
- Brake wheel cylinder O-rings replaced.
- MLG legs removed, cleaned, inspected, repainted and re-installed
- New MLG brake pads and discs installed
- LH MLG tire and tube replaced PN: 156E6-4, SN: 00340377
- RH MLG tire and tube replaced PN: 156E6-4, SN: 00340393
- NLG tire and tube replaced PN: 156C01-2, SN on: 02062221
- Landing gear retraction check carried out. deemed satisfactory
- Complete buff and polish carried out on entire aircraft
- Canopy and pax door outer latch handles replaced, pax door safety push button replaced
- Canopy and pax door handle compression gas springs replaced
- Canopy and pax door gas struts replaced
- Replaced all nose baggage door hinges
- Throttle knobs replaced with new
- Variable elevator stop unit replaced
- Pilot control stick assembly replaced with a used D60-2753-11-00 control stick

Airframe	Manufacturer	Model	SN	TSN:
LH Engine	Diamond	DA-42 NG	42AC069	5693.0 Hrs
RH Engine	Austro	E4-B	E4-B-00142	TSN: 359.9 Hrs
LH Prop	Austro	E4-B	E4-B-00291	TSN: 359.9 Hrs
RH Prop	MT-Propeller	MTV-6-R-C-F/CF187-129	110060	TSOH: 0.00 Hrs.
	MT-Propeller	MTV-6-P-C-F/CF187-129	C80179	TSOH: 0.00 Hrs.

- Lift detector replaced PN: C-99701-1, SN: 155543-05 installed
- Roller guides for flight control rods replaced as required
- Aft rudder cable guides replaced
- All rudder cables replaced
- Heat and defrost cable cores removed, cleaned, and reinstalled
- Air handle replaced
- Alternate air cable core from lever to control quadrant replaced
- Bonding wires on flight control push rods replaced as required
- Electrical Bonding and static discharging system check carried out. Next check due at 6693.0 Hrs or, Mar. 2025
- LH/RH entry steps, I-panel cover and glare shield repainted.
- All seat belts replaced.
- Installed new aircraft interior panels and carpets.
- All seats (pilot, co-pilot and rear bench) removed from 42AC070 with 1497.1hrs, inspected and installed into 42AC069
- Repaired Fiberfrax behind LH and RH engine firewalls IAW DA42NG AiMM Doc. 7.02.15 Rev 4.
- Removed CHECK GEAR warning light and associated wiring from instrument panel
- Replaced SCAT 6 and SCAT 8 hoses as required
- Garmin PFD replaced PN: 011-00972-03, SN: 106001747 installed
- Garmin GMU 44 PN: 011-00870-00, SN off: 47525392 replaced with PN: 011-00870-10, SN: 1CM035407
- Garmin GDC 74 PN: 011-00882-00, SN: 47807142 replaced with GDC 74A PN: 011-00882-10, SN: 20622044
- Corn 1 antenna replaced PN: DMC63-1/A, SN: 48410, installed
- ELT antenna replaced PN: 110-338, SN: 212009 installed
- GPS #1 antenna replaced PN off: 013-00235-00 (GA35), SN off: 73128, PN on: 013-00244-00 (GA36), SN on: 11248
- GPS #2 antenna replaced PN off: 013-00235-00 (GA35), SN off: 57767, PN on: 013-00245-00 (GA37) SN on: 5223
- Altimeter replaced PN: 5934PD-3 A.130, SN: 518755 installed
- Replaced RH engine current sensor
- USB TA102 charging ports installed IAW True blue install manual 5017942, 3 Locations - 2 in instrument panel and 1 in center tunnel
- Instrument panel removed, metal frame painted black and all new black instrument panel placards installed
- Performed compass swing & G1000 AHRS calibration

Magnetic Compass						
FOR	N	30	60	E	120	150
STEER	360	030	060	090	120	150
FOR	S	210	240	W	300	330
STEER	180	210	240	270	300	330

Lights and radios on

G1000 HSI						
FOR	N	30	60	E	120	150
STEER	002	030	060	092	120	153
FOR	S	210	240	W	300	330
STEER	179	210	243	270	300	333

Lights and radios on

- Aircraft re-weighed and AFM section 6 updated with revised weight and Balance and equipment list.

New Empty Weight:	1441.5 kg	OR	3178.0 lbs
New EW C of G:	2.388 m	OR	94.03 in
New EW Moments:	3442.9 kg m	OR	298830.6 in-lbs
Max. Gross Weight:	1900.0 kg	OR	4189.0 lbs
New Useful Load:	458.5 kg	OR	1011.0 lbs
- ELT annual inspection carried out IAW Artex ME406 MM, Unit SN: 09103, ELT Battery due for replacement Nov 2027
- Garmin G1000 Data base update carried out:
 - Safety, Obstacle & Airport directory, Next due: 22 Apr 2021
 - Navigation & Flight charts Next Due: 25 Mar 2021
- Transponder correlation requirements completed in accordance with 571 appendix F, 571.10, Appendix B paragraph (a)4(1) of the CARs, FAR 91.411, FAR 91.413, FAR 43 appendix E & F. Next due: Mar 2023
 - Transponder GTX 345R, SN: 3EH028131
- Altimeter, static pressure system & GDC have been inspected and tested in accordance with Chapter 571, Appendix B Paragraph (a) 4(i) of the CARs, FAR 91.411, FAR 43 appendix E. Next due: Mar 2023
 - Standby Altimeter: PN: 5934PD-3, SN: 518755
 - Air Data Computer: GDC 74A, SN: 20622044

I have carried out an independent inspection of the Flight controls/power plant and all parts affected by the work accomplished.

Signature: _____

ACA: _____



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

Signature: _____

ACA: _____





AMO 161-93

 Aircraft Reg: N590ER
 Work Order: SO072539

Date: March 19, 2021

	Manufacturer	Model	SN	
Airframe	Diamond	DA 42 NG	42.AC069	TSN: 5693.0 Hrs
LH Engine	Austro	E4-B	E4-B-00142	TSN: 359.9 Hrs
RH Engine	Austro	E4-B	E4-B-00291	TSN: 359.9 Hrs
LH Prop	Mt-Propeller	MTV-6-R-C-F/CF187-129	110860	TSOH: 0.00 Hrs.
RH Prop	Mt-Propeller	MTV-6-R-C-F/CF187-129	080179	TSOH: 0.00 Hrs.

The following Diamond Aircraft issued Service Bulletins checked and complied with as applicable:

- MSB42NG-002/18- Austro engine software- **Confirmed latest revision**
- MSB42NG-003/29- G1000 software- **Confirmed latest revision**
- MSB42NG-005/1- Exchange of charge air tubing between turbo and intercooler- N/A by S/N
- MSB42NG-007- Check of emergency exit lever- Found PCW
- OSB42NG-008- Wing Stub Safety Walkway- Found PCW
- MSB42NG-010- Installation of protective mesh on coolant and charged air radiator- Found PCW
- MSB42NG-014- Replacement of passenger door retaining bracket- Action 1 found PCW
- MSB42NG-016/1- Inspection of rudder control system and NLG steering bracket- Terminating action found PCW
- RSB42NG-017/1- Replacement of seals in MLG damper- Found PCW
- MSB42NG-018/1- Replacement of Turbo connector assembly- Found PCW
- OSB42NG-019/1- Installation of fuel pressure pulsation damper- Found PCW
- MSB42NG-022- Center wing skin to spar bond- Found PCW
- MSB42NG-024- Removal of LH aft safety rope and inspection of engine mount- Found PCW
- OSB42NG-025- Installation of heating inlet scoop- **Found PCW**
- MSB42NG-026- Replacement of MLG damper nut- Found PCW
- MSB42NG-027/1- Heating inlet using ram air- Found PCW
- OSB42NG-028- Installation of tall canopy bubble to existing canopy frame- **CW at this inspection**
- OSB42NG-029- Installation of fire protection patches on cowl and nacelle- **CW at this inspection.**
- RSB42NG-030/1- Replacement of air-conditioning system- N/A, No air conditioning installed
- MSB42NG-032/1- Optional retrofit installation of oxygen system- **N/A this inspection**
- MSB42NG-033/2- Replacement of aft engine shock mounts- **CW at this inspection**
- OSB42NG-034- Installation of improved alternator regulators- Found PCW
- MSB42NG-035/1- Inspection/replacement of spherical rod end bearing and safety washer of NLG actuator- Found PCW
- RSB42NG-038- Removal of check valves in aux tank line- Found PCW
- OSB42NG-039- Installation of engine oil quick drain valve- Completed
- OSB42NG-041- Installation of check valves at fuel pumps- **CW this inspection**
- RSB42NG-043- Installation of permanent maintenance access holes in wing- **CW at this inspection**
- OSB42NG-054- Installation of maintenance access holes in elevator- PCW
- OSB42NG-055- Installation of resistors to prevent nuisance fuel transfer advisories- **CW at this inspection**
- RSB42NG-057- Installation of fuel filter drain valve adapter- Found PCW
- OSB42NG-058- Installation of LED position and ACL- **CW at this inspection.**
- MSB42NG-059- Inspection of bridle cable clamps- N/A by S/N
- OSB42NG-060- Installation of approved yaw damper system for GFC700 Autopilot- **CW at this inspection**
- RSB42NG-061- Replacement of turbocharger v-clamp- **CW at this inspection**
- OSB42NG-064- Replacement of old coolant tank assembly by new design- PCW
- RSB42NG-065- Replacement of steel pin of door handle mechanism of canopy and pax door- **CW this inspection**
- MSB42NG-066/1- Inspection of flap bell crank for cracks- Terminating action found PCW
- OSB42NG-068- Retrofit installation of tablet mount on canopy from- **CW this inspection**
- MSB42NG-070- Securing of screwed connection between MLG and MLG door rod- N/A by Aircraft S/N
- MSB42NG-072- Inspection of upper rudder bearing installation- Found PCW
- OSB42NG-073/1- Installation of sun visors- **CW at this inspection**
- RSB42NG-074- Installation of NLG towing placard- Found PCW
- OSB42NG-076- Installation of new map lights and map light sealing- **CW at this inspection**
- MSB42NG-077- Removal of pilot side gust lock mounts- N/A by aircraft S/N
- MSB42NG-078- Inspection of NLG actuator lever- **CW at this time, Next inspection due at 5893.0 Hrs**
- MSB42NG-079/1- Inspection of Rudder T-Yoke axle with improved design - Terminating action complied with under RSB42NG-081
- MSB42NG-080- Replacement of fuel tank connection hoses- **CW at this time**
- RSB42NG-081- Replacement of rudder T-yoke axle with improved design- Terminating action complied with this inspection
- MSB42NG-082- Cut in rudder gap cover- N/A by aircraft S/N
- OSB42NG-083- G1000 NXi system - N/A - not installed

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

Signature: _____

Lic# or ACA: _____



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							



AMO 161-93

Aircraft Reg: N590ER
Work Order: SOU72539

Date: March 19, 2021

Airframe	Manufacturer	Model	SN	TSN
LH Engine	Diamond	DA 42 NG	42.AC069	5693.0 Hrs
RH Engine	Austro	E4-B	E4-B-00142	TSN: 359.9 Hrs
LH Prop	Austro	E4-B	E4-B-00291	TSN: 359.9 Hrs
RH Prop	Mt-Propeller	MTV-6-R-C-F/CF167-129	110890	TSOH: 0.00 Hrs.
	Mt-Propeller	MTV-6-R-C-F/CF187-129	080179	TSOH: 0.00 Hrs.

Following Airframe FAA AWDs' checked & C/W as applicable:

- AWD 2011-10-13- Passenger door bracket- Found PCW
- AWD 2012-17-07- Wing spar inspection- Found PCW
- AWD 2013-06-02- Engine air filter icing- Found PCW
- AWD 2013-07-01- Replacement of MLG Damper nut- Found PCW
- AWD 2013-19-11- NLG rod end bearing and washer replacement- Found PCW
- AWD 2014-04-04- Alternator fail indication- Found PCW
- AWD 2016-22-06- Inspection of autopilot bridle cable clamps- N/A by S/N
- AWD 2017-18-10- Flap bell crank inspection- Terminating action Found PCW
- AWD 2019-14-11- Removal of pilot side rudder pedal gust lock mounts- N/A by S/N
- Biweekly FAA AD Checked through 2021-06

Following Airframe EASA (CASA) AWDs' checked & C/W as applicable:

- 2007-0183 R2 - ECU backup batteries install - Found PCW
- 2008-0036 - Flap and aileron rod ends replacement - Found PCW
- 2008-0139 - Wire Secured Bolts for Engine Support - N/A by engine type
- 2008-0136 R1 - Rev 7 of AFM includes Lightning strike procedures - Latest AFM revision in use
- 2010-0235 R1 - Passenger door retaining bracket - N/A by part number
- 2011-0020 R1 - Inspection of MLG joints terminating action - Found PCW
- 2011-0109- Center Wing - Skin to Spar Bond - Found PCW
- 2012-0174 - Replacement of Seals in Main Landing Gear Damper - Found PCW
- 2012-0269 - Rev 7 of AFM includes Engine air intake/filter icing procedures - Latest AFM revision in use
- 2013-0121 - NLG rod end and Washer inspection - Found PCW
- 2013-0224 - Alternator fail indication - Latest software version installed
- 2016-0190 - Autopilot bridle clamps - N/A by S/N
- 2017-0074 - Inspection of flap bell crank for cracks - Terminating action found PCW
- 2018-0214 - Pilot rudder pedal gust locks removal - N/A by S/N
- 2019-0066 - Inspection of NLG leg assembly - CW at this time, Next inspection due at 5693.0 Hrs
- 2019-0218 - Fuel tank interconnect hoses - CW at this time, Next replacement due Mar 1929
- 2019-0302 - Rudder T-Yoke self locking nut - Terminating action cw at this time
- 2020-0008 - Flap control system, bellcrank assembly - Terminating action found PCW
- 2021-0055 - Austro engine oil pump replacement - N/A by engine S/N
- Biweekly EASA AD Checked through 05-21-21

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

Signature: _____ ACA: _____



Date: March 19, 2021
Aircraft Total Time: 5693.0 hours

I certify that this aircraft DA 42 NG Serial Number 42.AC069 (N590ER) has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

PAGE
TOTALS

Jared Curtis

AP 2878024 IA

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Section 1: Airframe Log

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

DETAILS OF TASK
(INSPECTION, REPAIRS & REPLACEMENT)



DIAMOND AIRCRAFT IND.
D.O.T. APPROVED
MAINTENANCE
ORGANIZATION161-93

Registration: N590ER
AC Serial Number: 42.AC069
Airframe Total Time: 5694.2 Hrs

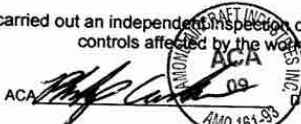
Diamond Aircraft Work Order:
SO 072539

Maintenance Performed:

- Replaced artificial horizon adjust cover
- Flap preloads readjusted
- Adjusted LH aileron 1/2 Turn down for symmetry
- Adjusted canopy seal
- Replaced LH and RH fuel caps

I have carried out an independent inspection of the Flight controls/power plant controls affected by the work accomplished

ACA



Date: MAR 23 2021

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

ACA



Date: MAR 23 2021



DIAMOND AIRCRAFT IND.
D.O.T. APPROVED
MAINTENANCE
ORGANIZATION161-93

Registration: N590ER
AC Serial Number: 42.AC069
Airframe Total Time: 5696.9 Hrs

Work Order: SO072539
06 April 2021

Maintenance Performed:

- 2mm Shim added to LH inbd flap
- Adjusted canopy seal
- Replaced front and rear seats with newly reupholstered seats
- Replaced LH and RH forward engine isolator mounts
- New sheepskin covers installed on front pilot and co-pilot seats
- Aircraft re-weighed and AFM section 6 updated.

New Empty Weight:	1466.0 kg	OR	3232.0 lbs
New EW C of G:	2.381 m	OR	93.72 in
New EW Moments:	3489.9 kg.m	OR	302905.7 in.lbs
Max. Gross Weight:	1900.0 kg	OR	4189.0 lbs
New Useful Load:	434.0 kg	OR	957.0 lbs

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

ACA



Date: APR 06 2021

PAGE
TOTALS

CARRY FORWARD to Top of Next Page

NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

MAKE: Diamond
MODEL: DA42NG
S/N: 42.AC069
REG. NO: N590ER
WORK ORDER: 0314

Premier
Aircraft Service

Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 4/19/2021
A/C TSN: 5713.6
HOBBS: 0

Airframe Entries

- Installed hobbs meter 85094-12
- Cut holes in nacelle panels for aux tank drains per Diamond supplied drawing

DATE: 4/19/2021

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0314

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Hobbs Time 72.2

5-15-21

Installed New LH main tire & tube. Packed wheel bearings & inspected the brake linings. The work described above was done IAW manufacturer's service manual & current FAA Regulations. End

Tony McDaniel
A&P 3517538

MAKE: Diamond
MODEL: DA42NG
S/N: 42.AC069
REG. NO: N590ER
WORK ORDER: 0314

Premier
Aircraft Service

Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 5/26/2021
A/C TSN: 5773.2
HOBBS: 83.3

Airframe Entries

- Replaced LH coolant safety valve and topped off coolant

DATE: 5/26/2021

SIGNED:

David Seastead, License: AP3492477 IA

Work Order: 0314

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MAKE: Diamond
MODEL: DA42NG
S/N: 42.AC069
REG. NO: N590ER
WORK ORDER: 0314

Premier
Aircraft Service

Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 5/28/2021
A/C TSN: 5778.3
HOBBS: 92.2

Airframe Entries

- Replaced LH coolant cap o-ring 445826 and topped off coolant

DATE: 5/28/2021

SIGNED:

David Seastead, License: AP3492477 IA

Work Order: 0314

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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							

MAKE: Diamond
MODEL: DA42NG
S/N: 42.AC069
REG. NO: N590ER
WORK ORDER: 0342



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 6/11/2021
A/C TSN: 5789.9
HOBBS: 108.4

Airframe Entries

- Performed 100 Hour Inspection using DA42NG AMM as a guide
- Inspected ELT system IAW 14 CFR 91.207(d)
- Replaced fuel filters
- Complied with 100 Hour lubrication

I certify this aircraft has been inspected IAW a 100 Hour Inspection and was determined to be in airworthy condition.

DATE: 6/11/2021

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0342

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MAKE: Diamond
MODEL: DA42NG
S/N: 42.AC069
REG. NO: N590ER
WORK ORDER: 0314



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 6/11/2021
A/C TSN: 5789.9
FLIGHTTIME: 5789.9

Airframe Entries

- Replaced aux transfer switches
- Replaced LH outboard fuel probe D60-2817-14-00_1-ASY

DATE: 6/11/2021

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0314

Printed by EBis 3 (datcomedia.com)

MAKE: Diamond
MODEL: DA42NG
S/N: 42.AC069
REG. NO: N687ML
WORK ORDER: 0388



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 8/13/2021
A/C TSN: 5884.6
HOBBS: 239.8

Airframe Entries

- Performed 100 Hour Inspection using DA42NG AMM as a guide
- Inspected ELT system IAW 14 CFR 91.207(d)
- Replaced fuel filters
- Complied with 100 Hour lubrication
- Replaced RH coolant valve
- Replaced all brake linings
- Replaced RH tire and tube

I certify this aircraft has been inspected IAW a 100 Hour Inspection and was determined to be in airworthy condition.

DATE: 8/13/2021

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0388

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Date: 23 Aug 2021 Hobbs: 280.1 Tach: 5915.1 Diamond DA42NG N687ML
Aircraft Flight Controls, specifically Rudder Tested on ground and
in actual Test Flight. All controls operating normal.

Owner/Operator/Pilot
Michael A. Lewis
CFI 3287819 exp 6/22

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TOTALS

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Make: Diamond
Model: DA42NG
S/N: 42.AC069
REG NO: N687ML



Diamond Fleet & Aviation services LLC
5070 S. Collins suite 205,
Arlington, TX 76018
Phone: 817-575-7828

Date: 11/16/2021
Hobbs: 0367.7
A/C TSN: 5974.6

7b

Airframe entry:

- performed 100 hour inspection using DA42NG AMM as a guide
 - complied with 100 hour lubrication
 - Inspected ELT system IAW 14 CFR 91.207
 - Replaced left main tire and tube
 - Replaced nose tire and tube
 - Replaced fuel filters
 - Placed Indicator pin assy P/N: D60-7613-18-00
 - All AD's complied with current BI-week
- I certify this aircraft has been inspected IAW a 100 hour inspection and was determined to be in an airworthy condition.

Date: 11/16/2021

SIGNED:
Austin Paden, A&P:4494928

NAME/
SIGNATURE

LICENCE:
AME or
AMO/ACA

MAKE: Diamond
MODEL: DA42NG
S/N: 42.AC069
REG. NO: N687ML
WORK ORDER: 0492



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 3/24/2022
A/C TSN: 6073.6
HOBBS: 514.2

Airframe Entries

- OSB42NG-062 Modified heater/defroster and alternate air control cable installation

DATE: 3/24/2022

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0492

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wo: N687ML 2022.03.25 Scheduled



Airframe - page 1 of 1

Diamond Fleet & Aviation Service - 5070 S. Collins S. Suite 205 - Arlington, TX 76018 - 9012474808

N687ML
HOBBS: 514.9

DIAMOND AIRCRAFT IND INC, DA 42, S/N: 42.AC069
TACH: 6073.8

March 29, 2022

1. **Annual Inspection - Airframe** - Annual/100 Hour/200 Hour Inspection completed using FAR 43 Appendix D, DAI DA42 AMM (CH4 Airworthiness Limitations & CH5 Maintenance Intervals) as a guide. ELT Inspection (FAR 91.207) completed. Completed Annual/100/200 Hour lubrication requirements. All ADs current & complied with through bi-week.
2. **100 Hour Inspection** - Completed in conjunction with Annual Inspection. Next Due at 6173.8 TACH.
3. **Comply with AD 2021-22-03 (NLG Actuator Attach Lever) Dated 21Dec2021** - AD Complied with using WI from DAI MSB 42-078. Next Due at 6273.8 TACH.
4. **L/H Aileron Control Rod Bonding Jumper Broken** - Crimped replacement terminal end on bonding jumper.

With respect to the work performed, this aircraft has been found to be in an airworthy condition and is approved for return to service. Details of work performed are on file with Diamond Fleet & Aviation Service under work order: N687ML 2022.03.25 Scheduled.

Michael Smith A&P/IA 3906663



Diamond Fleet & Aviation Service - 5070 S. Collins S. Suite 205 - Arlington, TX 76018 - 9012474808

N687ML
HOBBS: 555.8DIAMOND AIRCRAFT IND INC, DA 42, S/N: 42.AC069
TACH: 6098.9

April 28, 2022

1. **Parking Brake Valve stuck in "Locked" Position** - Bled brakes and inspected operation and condition of parking brake lever, bowden cable, and parking brake valve. Adjusted bowden cable to parking brake lever. Ops Check OK. All MX Completed IAW DA42NG AMM Current Revision.
2. **36 Month Brake Fluid Replacement** - Completed in conjunction with corrective maintenance. Next due 4/28/2025.

With respect to the work performed, this aircraft has been found to be in an airworthy condition and is approved for return to service. Details of work performed are on file with Diamond Fleet & Aviation Service under work order: N687ML 2022.04.27 Unscheduled.

Michael Smith A/P 3906663

NT)



Diamond Fleet & Aviation Services - 5070 S. Collins S. Suite 205 - Arlington, TX 76018 - 9012474808

N687ML
HOBBS: 648.4DIAMOND AIRCRAFT IND INC, DA 42, S/N: 42.AC069
TACH: 6159.6

June 22, 2022

1. **R/H MLG Tire Tread Worn** - Removed tire (p/n: 301-249-006; s/n: 93405890) and tube (p/n 097-500-00; s/n none) and installed removed-serviceable tire (p/n same; s/n: 11650406) and new-serviceable tube (p/n same; s/n none) IAW DA42NG AMM and Parker Cleveland ICA current revision.

With respect to the work performed, this aircraft has been found to be in an airworthy condition and is approved for return to service. Details of work performed are on file with Diamond Fleet & Aviation Services under work order: N687ML 2022.06.22 Unscheduled.

Michael Smith A/P 3906663



Diamond Fleet & Aviation Services - 5070 S. Collins S. Suite 205 - Arlington, TX 76018 - 9012474808

N687ML
HOBBS: 661.5DIAMOND AIRCRAFT IND INC, DA 42, S/N: 42.AC069
TACH: 6168.0

July 11, 2022

1. **100 Hour Inspection** - Inspection completed using DA42NG AMM current revision and FAR 43 Appendix D. 100 hour airframe lubrication completed. All ADs complied with through current bi-week. Next due @ 6268.0 TACH.
2. **100 Hour Fuel Filter Replacement (2ea)** - Removed 2ea airframe fuel filters (p/n WK723-4) and installed new-serviceable filters (p/n same) IAW DA42 AMM current revision. Next due @ 6268.0 TACH or 11 July 2023.
3. **12 Month ELT Operational Check (14 CFR Part 91.207)** - Completed IAW FAR 91.207 - Battery expires Jul 2027. Next due @ 6268.0 TACH or 11 July 2023.
4. **MLG brake linings worn** - Removed 4ea brake linings (p/n 066-10500) and installed new-serviceable linings (p/n same) IAW DA42NG AMM & Parker Cleveland CMM current revision. Ops check OK.

With respect to the work performed, this aircraft has been found to be in an airworthy condition and is approved for return to service. Details of work performed are on file with Diamond Fleet & Aviation Services under work order: N687ML 2022.07.11 Scheduled.

Kavin Barney A&P 4416057

MAKE: Diamond
MODEL: DA42NG
S/N: 42.AC069
REG. NO: N687ML
WORK ORDER: 0632



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 9/16/2022
A/C TSN: 6169
HOBBS: 663.7

Airframe Entries

- Replaced induction air filters
- Replaced LH intercooler shock mounts
- AD 2021-22-03 inspected NLG attachment lever IAW MSB42NG-078

SIGNED:

Chad Cox, License: AP3782800 IA

DATE: 9/16/2022

Work Order: 0632

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PDG Services + 670 Ferris Rd., Ste. 104 + Lancaster, TX. 75146

ACFT REG. N687ML HOBBS TIME 739.0

The ~~stay~~ altimeter system has been inspected and found to comply with the requirements of FAR part 91.411, to an altitude of 25,000 ft. Pertinent details of the certification are on file at this repair station under the work order # 23-0222, dated 2-22-23.

Paul Gardner
CRS G49R038Y

(Authorized Signature)
214-886-5894

2-22-23

(Date)

PDG Services + 670 Ferris Rd., Suite 104 + Lancaster TX 75146

ACFT REG. N687ML HOBBS TIME 739.0

The H1 altimeter, transponder & altitude reporting system has been inspected and found to comply with the requirements of FAR 91.411 & 91.413, to an altitude of 25,000 ft. Pertinent details of the certification are on file at this repair station under the work order # 23-0222, dated 2-22-23.

Paul Gardner
CRS G49R038Y

(Authorized Signature)
214-886-5894

2-22-23

(Date)

MAKE: Diamond
MODEL: DA42NG
S/N: 42.AC069
REG. NO: N687ML
WORK ORDER: 0697



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 2/24/2023
A/C TSN: 6226.7
HOBBS: 739.2

Airframe Entries

- Performed Annual Inspection using DA42NG AMM as a guide
- Inspected ELT system IAW 14 CFR 91.207(d)
- Replaced ECU backup batteries
- Replaced fuel filters
- Complied with 100 Hour lubrication
- MSB42NG-002/20 (MSB-E4-003/27) Updated L/R FADEC software to VC33_0_07_25
- Replaced emergency battery
- Replaced RH air filter box shock mount
- Replaced LH gear bonding strap
- Replaced RH exhaust pipe
- Replaced tires and tubes
- Installed battery minder airframe interface kit BM-AIK2A

I certify this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

DATE: 2/24/2023

SIGNED:

David Seastead, License: AP3492477 IA

Work Order: 0697

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Section 1: Airframe Log

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

DETAILS OF TASK
(INSPECTION, REPAIRS & REPLACEMENT)

MAKE: Diamond
MODEL: DA42NG
S/N: 42.AC069
REG. NO: N687ML
WORK ORDER: 0931

Premier
Aircraft Service

Premier Aircraft Service, Inc.
3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 9/5/2023
A/C TSN: 6315.9
HOBBS: 847.4

Airframe Entries

- Replaced fuel filters
- Serviced L-R coolant bottles

DATE: 9/5/2023

SIGNED: 

David Seastead, License: AP3492477 IA

Work Order: 0931

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MAKE: Diamond
MODEL: DA42NG
S/N: 42.AC069
REG. NO: N687ML
WORK ORDER: 0977

Premier
Aircraft Service

Premier Aircraft Service, Inc.
3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 11/8/2023
A/C TSN: 6350
HOBBS: 889

Airframe Entries

- Replaced induction air filters RU-1620

DATE: 11/8/2023

SIGNED: 

Chad Cox, License: AP3782800 IA

Work Order: 0977

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MAKE: Diamond
MODEL: DA42NG
S/N: 42.AC069
REG. NO: N687ML
WORK ORDER: 1043

Premier
Aircraft Service

Premier Aircraft Service, Inc.
3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 3/1/2024
A/C TSN: 6369.9
HOBBS: 918.6

Airframe Entries

- Performed Annual Inspection using DA42NG AMM as a guide
- Inspected ELT system IAW 14 CFR 91.207(d)
- Replaced ECU backup batteries
- Replaced fuel filters
- Complied with 100 Hour lubrication
- Swapped altregs L-R for troubleshooting
- Replaced RH altreg with new E4A-91-200-000
- Replaced deice bottle o-ring D60-9030-00-10
- Replaced brake linings 066-10500

I certify this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

DATE: 3/1/2024

SIGNED: 

Chad Cox, License: AP3782800 IA

Work Order: 1043

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TOTALS

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AIRCRAFT MAINTENANCE ENTRY

WO#: 23624

MFG/MODEL: Diamond DA42

REG#: N687ML

DATE: 07/24/2024

SN: 42.AC069

TACH / HOBBS: 965.00

Removed GDU 1040 pn: 011-00972-03, sn: 106001747.
Installed overhauled GDU 1040 HTR pn: 011-00972-03, sn:
88904429 in accordance with G1000 System Installation
Manual #190-00907-00, Rev. E, dated May 2011.

The aircraft and/or component listed was repaired and inspected IAW
current FAA regulations and is approved for return to service.

Signed: _____

Temple Electronics Co. Inc.

FAA CRS XD1R608K - AFAC CRS CO-200/19

NAME/
SIGNATURE

LICENCE:
AME or
AMO/ACA

MAKE: Diamond
MODEL: DA42NG
S/N: 42.AC069
REG. NO: N687ML



3804 Falcon Way W
Hangar 18S
Fort Worth TX 76106

W/O #: 1437
DATE: 05-20-2025
Airframe TT: 6445.9
Tach: 6445.9
Hobbs: 999.6

Airframe Entries

Performed Annual Inspection using DA42NG AMM as a guide
Inspected ELT system IAW 14 CFR 91.207(d)
Replaced ECU backup batteries
Replaced fuel filters
Complied with 100 Hour lubrication

I certify this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

DATE: 05-20-2025

SIGNED: _____

Chad Cox

License: AP3782800 IA

WORK ORDER: 1437

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AUTHORIZED RELEASE CERTIFICATE

1. Approving Civil Aviation Authority/County:

FAA/UNITED STATES

2.

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. System Tracking Ref. No.

SO # 17323462

4. Organization:

GARMIN International 1200 E 151st Olathe, KS 66062

Certificate No. G6XR582Y

5. Work Order Contract/Invoice Number:

SO # 17323462

6. Item:

1. GDU1040 HTR

8. Part Number:

011-00972-03

9. Quantity:

1

10. Serial Number:

88904429

11. Status/Work:

OVERHAULED

12. REMARKS: This "Certifies that the work specified in block 11/12 was carried out in accordance with UK CAA Part-145 and in respect to that work the component is ready for release to service under UK CAA Part-145 Approval Number.

UK 145 50101 This unit is Newly Overhauled It has been analyzed, reworked, tested, and conforms to the Newly Overhauled process set forth by Garmin.

This unit complies with Mod 1

This unit complies with Mod 2

This unit complies with Mod 3

This unit complies with Mod 4

Operating software for this unit must be reloaded using the approved aircraft system software once the unit is reinstalled in the aircraft in order to complete the return to service process. Correct loading of this software can be verified by referring to the appropriate avionics/maintenance manual.

The work that was performed on this unit was done to meet the requirements of all sections of the maintenance manual part number 190-00364-00 Rev-BJ, Revision Date 3/4/2024. Reference: 010-N0337-03 is the Garmin stocking/shipping part number for the 011-00972-03 unit that was processed.

13a. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in condition for safe operation

☐ Non-approved design data specified in block 12

14a. ☒ 14 CFR 43.9 Return to Service

☒ Other regulations specified in Block 12

Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature

N / A

13c. Approval/Authorization No.:

N / A

14b. Authorized Signature:

John Calvin Bradlee Dickhaut

14c. Approval/Certificate No.:

G6XR582Y

13d. Name (Typed or Printed)

N / A

13e. Date (dd/mm/yyyy)

N / A

14d. Name (Typed or Printed)

John Calvin Bradlee Dickhaut

14e. Date (dd/mm/yyyy)

12 Jun 2024

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the

user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the Airworthiness Authority of the country specified in Block 1.

Statements in Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the

user/installer before the aircraft may be flown.

1. Approving Civil Aviation Authority/Country: 2. **AUTHORIZED RELEASE CERTIFICATE**
FAA/UNITED STATES
4. Organization: GARMIN International 1200 E 151st Olathe, KS 66062 Certificate No. G6XR582Y
3. System Tracking Ref. No. S O # 17323462
5. Work Order Contract/Invoice Number: S O # 17323462
11. Status/Work: OVERHAULED

6. Item: 7. Description: 8. Part Number: 9. Quantity: 10. Serial Number: 11. Status/Work: OVERHAULED
1. GDU1040 HTR 8 011-00972-03 1 88904429

12. REMARKS: This "Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the component is ready for release to service under EASA Part-145 Approval Number: EASA.145.5534" This unit is Newly Overhauled. It has been analyzed, reworked, tested, and conforms to the Newly Overhauled process set forth by Garmin.
This unit complies with Mod 1
This unit complies with Mod 2
This unit complies with Mod 3
This unit complies with Mod 4

Operating software for this unit must be reloaded using the approved aircraft system software once the unit is reinstalled in the aircraft in order to complete the return to service process. Correct loading of this software can be verified by referring to the appropriate avionics/time maintenance manual.

The work that was performed on this unit was done to meet the requirements of all sections of the maintenance manual part number 190-00364-00 Rev. B1, Revision Date 3/4/2024. Reference: 010-N0337-03 is the Garmin stocking/shipping part number for the 011-00972-03 unit that was processed.

13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in condition for safe operation ☒ Other regulations specified in Block 12
☐ Non-approved design data specified in block 12
14a. ☒ 14 CFR 43.9 Return to Service ☒ Other regulations specified in Block 12
Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature: 13c. Approval/Authorization No.: 14b. Authorized Signature: 14c. Approval/Certificate No.:
N / A N / A John Calvin Bradlee Dickhaut G6XR582Y
13d. Name (Typed or Printed): 13e. Date (dd/mm/yyyy): 14d. Name (Typed or Printed): 14e. Date (dd/mm/yyyy):
N / A N / A John Calvin Bradlee Dickhaut 12 Jun 2024

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the Airworthiness Authority of the country specified in Block 1.
Statements in Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

* Installer must cross-check eligibility with applicable technical data.