

AIRCRAFT

1. Nationality and Registration N168DC
2. Manufacturer's Designation DC30-C1
3. Manufacturer's Serial Number C0168
4. Type Approval or Specification Number A-191/TW4CH
5. Date of Manufacture \_\_\_\_\_
6. Aircraft Inspection Cycle \_\_\_\_\_



DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
	HRS.	MIN.	HRS.	MIN.
02 JAN 2002	0	0	0	0
02 JAN 2002	0	0	0	0

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

SERIAL NUMBER  
**C0168**

REGISTRATION MARK  
**N168DC**

17 December 2001 S/N C0168  
 COMPASS DEVIATION, ALL ELECTRICS ON

FOR	N	30	60	E	120	150
STEER	335	028	060	088	117	148
FOR	S	210	240	W	300	330
STEER	175	210	240	270	285	324

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETION OF RECORD  
 AIRCRAFT NEW

**Diamond**  
 INDEPENDENT CHECK OF FLIGHT AND POWERPLANT CONTROLS

DATE  
 18 December 2001

INSPECTOR  
 DA 05  
*Mark Taylor*

02 JAN 2002  
 02 JAN 2002

02 JAN 2002  
 2.1  
 AIRCRAFT IS SERVICEABLE FOR FLIGHT

**Diamond**  
 DIAMOND AIRCRAFT INDUSTRIES  
 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  
 02 January 2002

INSPECTOR  
 DA 02  
*Mike Segr*

2.1  
 CARRIED FORWARD

ENGINEERING RECORD

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

**Diamond**  
 The ELT was tested and inspected in accordance with Chapter 571, Appendix G of the Airworthiness Manual and F.A.R. 91.207(d)  
 ANNUAL INSPECTION DUE: DECEMBER 2002  
 BATTERY DUE: JANUARY 2004

DATE  
 18 December, 2001

INSPECTOR  
 DA 09  
*Mike Segr*

I certify that the Static Pressure system has been inspected and tested in accordance with Chapter 571, Appendix B of the Airworthiness Manual, and F.A.R. 91.411

**Diamond**  
 I certify that the ATC Transponder & Altitude Reporting System(s) have been tested in accordance with Chapter 571, Appendix F F.A.R. 91.217: & F.A.R. 91.413.

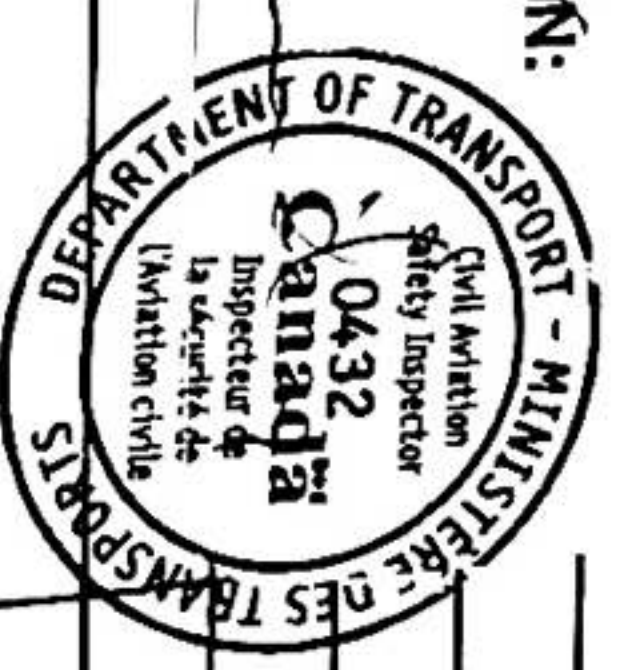
DATE  
 18 December, 2001

INSPECTOR  
 DA 09  
*Mike Segr*

THIS AIRCRAFT WAS INSPECTED FOR CONFORMITY TO APPLICABLE COMPANY RELEASED DOCUMENTS (DRAWINGS, SPECIFICATIONS, CONCESSIONS) AND IS SERVICEABLE.

**Diamond**  
 U.S. STANDARD AIRWORTHINESS CERTIFICATE  
 ISSUED

DATE: 10 Jan 2002 AND INSTALLED IN THE AIRCRAFT ON BEHALF OF THE F.A.A. ON:  
 DATE: 10 Jan 2002  
 NEM100-40





DATE	BROUGHT FORWARD	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
		HRS.	MIN.	HRS.	MIN.			
2-15-02	Rollie Davis			2.1		Removed Both main wheel Disc. PU 164.24200, pads APP48324003	Willis	DA 09
3/11/02	TACH Tach	24	4			Inspected aircraft in accordance with Diamond DA20-01 inspection guide (25 hr. ins.) and found to be satisfactory. Forward SR DA 616101 sent on 3/11/02	William E. B.	94P 202542871
2/14/02	TMC 341					Replaced Gen Light Relay. Reburn		
19MAR02	TMC 551					Perfermed SR DAC1-61-1 Repaired SR nose wheel spring for repair. Reburn		
10/03/02	N168DC					Tach 94.4		

Completed 100 hr Inspection in accordance with Diamond DA20 Maintenance Manual. Cleaned, inspected and repacked all wheel bearings. Lubricated all controls. C/W FAR 91.207 by ELT inspection and functional test - function proper. I certify that this Aircraft has been inspected in accordance with a 100 hr Inspection and was determined to be in Airworthy condition.-----

Matt Luketina A&P 2713617  
Corporate Flight Concepts




BOCA AVIATION  
AIRFRAME LOGBOOK ENTRY  
S/N C-0168 MODEL: KATANA  
N168DC DATE: 02/17/03 TIME: HOBBS:141.2 TACH: 122.3  
MAINTENANCE ITEMS C/W

- TIGHTEN LEFT BRAKE LINE. SERVICED BRAKE SYSTEM IAW M/M CHAP. 32.
- OPS CHECKED AIRCRAFT AT THIS TIME. OPS AND LEAK CHECK GOOD AT THIS TIME.

THE AIRFRAME IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION ADMINISTRATION REGULATIONS AND WAS FOUND TO BE AIRWORTHY FOR RETURN TO SERVICE AT THIS TIME PERTINENT DETAILS OF THE REPAIRS ARE AT THIS UNDER WORK # 14278


EDWARD ROBERTS  
A&P 580132660



2/13/03 N168DC Tach 112

Inspected in accordance with DA20-C1 Service Manual. Cleaned, inspected and repacked all wheel bearings. Lubricated all controls. C/W FAR 91.207 by ELT inspection and operational test - function proper. Replaced cabin heat air duct as necessary. I certify that this Aircraft has been inspected in accordance with a Annual Inspection and was determined to be in Airworthy condition.-----

David Wunderlich IA185387229  
Corporate Flight Concepts



IA185387229

CARRIED FORWARD







DATE	BROUGHT FORWARD	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
		HRS.	MIN.	HRS.	MIN.
9-17-08					

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE ENTRY

9-17-08 DIAMOND N168DC HOBBS = 305.2  
 Upgraded GARMAN GTX 327 SOFTWARE TO 2.10 per S.B.#0809. TRANSponder P/N 011-00490-00, SN 83706751. All work was performed I/A/W. 83706751. All work was performed I/A/W. MANUFACTURERS INSTRUCTIONS. RAMP TEST WAS PERFORMED AND UNIT PERFORMED PROPERLY AND I/A/W FAR 91.413 COMPLIANCE WAS VERIFIED. END

LANCASTER AVIONICS INC  
 LANCASTER AIRPORT  
 LITITZ, PA 17543  
 DATE 9-17-08  
 CERTIFICATION: LNTR261N  
 SIGNED: *[Signature]*

LANCASTER AVIONICS INC  
 CRS # LNTR261N

LANCASTER AVIONICS INC. CRS # LNTR261N  
 I CERTIFY THAT THE ALTIMETER, ENCODER AND STATIC SYSTEM TESTS REQUIRED BY FAR 91.411 HAVE BEEN PERFORMED IAW FAR 43 APPENDIX E  
 UNIT TYPE TESTED TO  
 #1 ALTIMETER UNIT TYPE TESTED TO  
 #2 ALTIMETER UNIT TYPE TESTED TO  
 ENCODER(S)  
 STATIC SYSTEM TEST DATE DATE  
 SIGN: *[Signature]* DATE 9-17-08

PROP MODEL: Advanced Aircraft Services LP  
 500 Airport Road Suite D  
 LITZ, PA 17543  
 Phone: 717-735-5179

DATE: 9/17/2008  
 A/C TSN: 305.3  
 PROP TT: 305.3  
 HOBBS: 305.3

Prop Entries  
 Completed an Annual Inspection IAW the Diamond DA20-C1 AMM check list. Checked prop hub bolt torques, dressed leading edges of blades. All AD's current thru 08-19-08. END.

Identify that the PROPELLER has been inspected IAW FAR 91.413 annual inspection and was found to be in Airworthy condition.  
 SIGNED: *[Signature]*  
 Richard A. Bernhart II, IA. 3124894  
 Work Order: 731  
 Printed by EBIS 3 (dalcommedia.com)

MAKE: Diamond  
 MODEL: DA20-C1  
 SN: C0168  
 REG. NO: N168DC  
 WORK ORDER: 731

DATE: 9/17/2008  
 A/C TSN: 305.3  
 HOBBS: 305.3

Airframe Entries

Completed an Annual Inspection IAW the Diamond DA20-C1 AMM check list. Replaced the grommet at the alt cable/damper. Replaced the ELT battery. Next due June 2010. Replaced the aircraft battery. Installed new double sided tape on the fitting at the horizontal/vertical stabilizer. Replaced the wingroot tape on both wings. Serviced the tires, serviced the brake fluid, repacked all wheel bearings, completed a light check, CMM FAR 91.207(d) ELT check. All AD's current thru 08-19-08. END.

DATE: 9/17/2008  
 SIGNED: *[Signature]*  
 Work Order: 731

MAKE DIAMOND  
 MODEL DA-20-C1  
 SN: C0168  
 REG. NO: N168DC  
 WORK ORDER: 1902-10-2008

DATE: 10/15/2008  
 A/C TSN: HOBBS 313.5

Airframe Entries  
 ADJUSTED TCI SSD120 ALTITUDE DIGITIZER SN 49332 TO WITHIN SPECIFICATIONS. REQUIRED A 5-600FT ADJUSTMENT. CERTIFIED TRANSPONDER P/N 011-00490-00, SN 83706751 AND ALTITUDE DIGITIZER TO COMPLY WITH THE REQUIREMENTS OF FAR 91.413 AND PART 43 APPENDIX F. NEXT VFR INSP DUE: 10-15-2010. INSTALLED THE REQUIREMENTS OF FAR 91.413 AND PART 43 APPENDIX F. NEXT VFR INSP DUE: 10-15-2010. INSTALLED COWLING INLET Baffle WATERIZATION KIT IAW DIAMOND AIRCRAFT SERVICE BULLETIN NO DAC1-71-03 REV. O. INSTALLED NEW COWL PLACARD P/N 22-1120-00-32 IAW SAME. UPDATED GNS-430 NAV/GPS DATABASE WITH JEPPESEN SERVICE DGRMT2 TO CYCLE 0811 IAW JEPPESEN AND GARMAN INSTRUCTIONS. THIS DATABASE EXPIRES ON NOVEMBER 20TH, 2008.

DATE: 10/15/2008  
 SIGNED: *[Signature]*  
 Mike Barringer  
 Certified Repair Station No. NDMR725J

North American Flight Services  
 Repair Station No. NDMR725J  
 405 Greenfield Avenue  
 Balston Spa, NY 12020  
 Phone: 518-885-5470

DATE: 11/19/2008  
 A/C TSN: HOBBS 313.5

Airframe Entries  
 TROUBLESHOOT OIL PRESSURE INDICATING SYSTEM IAW DIAMOND MAINT MANUAL. FOUND TO BE OPERATING TO SPECIFICATIONS. REMOVED DEFECTIVE TAPE FROM WING ROOTS AND APPLIED FACTORY WING ROOT SEALING TAPE P/N 4811-1-1-2 IAW DIAMOND MAINT MANUAL. REPLACED INSTRUMENT PANEL SHOCK MOUNT P/N SMB003-0200-9 IAW DIAMOND MAINT MANUAL. REPLACED RUBBER SPACERS ON GLARESHIELD WITH P/N RB143 IAW DIAMOND MAINT MANUAL. INSTALLED AIR GATEWAY PORTABLE PANEL DOCKING BRACKET AND HORIZONTAL TILT ADAPTER P/N AG-ITEM4 AND P/N AG-ITEM7 RESPECTIVELY INTO THE EXISTING RADIO RACK MOUNTING LOCATION USING STANDARD AN HARDWARE WITH REFERENCE TO AC 43.13-2A CH. 1 AND 2. AND THE AIRCRAFT MAINT MANUAL. THIS MOUNTING DEVICE CONSTITUTES A NEGLIGIBLE WEIGHT AND BALANCE CHANGE AND IS FOR THE SOLE PURPOSE OF HOUSING THE PORTABLE GARMAN GPSMAP 496. THIS GPSMAP 496 IS FOR VFR USE ONLY. IT IS ALSO NOTED THAT THE AIRCRAFT ITSELF IS CERTIFICATED FOR VFR USE ONLY WHICH PRECLUDES THE USABILITY AND LIMITATION OF THE GPSMAP 496. INSTALLED 7277-5-2 CIRCUIT BREAKER IN THE "GPS2" LOCATION WHICH PROVIDES AVIONICS BUSS POWER TO THE GPSMAP 496 WHEN IN THE DOCK VIA 22 AWG M22759/16-22 WIRE WITH REFERENCE TO AC 43.13-1B CH. 11. INTERFACED THE EXISTING GNS-430 NAVIGATION UNIT TO THE GPSMAP 496 ON CH 2 RS232 DATA IAW GNS-430 INSTALLATION MANUAL USING TEZEL M27500 2 CONDUCTOR WIRE. THE PORTABLE XM AND GPS ANTENNA RESET ON TOP OF THE GLARESHIELD AND WILL REMAIN REMOVABLE. CUT TWO HOLES IN THE GLARESHIELD SHROUD TO EXPOSE THE GPS 496 ANTENNA AND THE XM ANTENNA WHEN CANOPY IS CLOSED. THIS SHROUD IS COSMETIC AND NONE STRUCTURAL PER DIAMOND AIRCRAFT CORP. A CONTINUOUS ELECTRICAL RUNNING LOAD WAS CALCULATED AND FOUND TO BE WITHIN BUSS RATED CAPACITY. EXISTING ELECTRICAL/NAVIGATION SYSTEMS ARE IN NO WAY EFFECTED BY THIS WORK. REMOVED THE GARMAN GMA-340 INTERCOM AND INSTALLED PS-ENGINEERING PM-1000I INTERCOM P/N: 11922, SN: K12484. THE PM-1000I INTERCOM IS POWER BY THE EXISTING CIRCUIT BREAKER LABELED "ICS". THE INTERCOM WAS WIRED IAW PS-ENGINEERING INSTALLATION MANUAL P/N 200-123-0003 REV. 3 ALL FACTORY WIRING AND PROVISIONS REMAIN UNTOUCHED FOR THE GARMAN GMA-340 INTERCOM. REMOVED GARMAN G1-106A CDI TO FACILITATE SPACE FOR THE PM-1000I INTERCOM. THE G1-106A CONNECTOR AND WIRING IS STORED BEHIND THE INSTRUMENT PANEL WITH REFERENCE TO AC 43.13-1B CH. 11. RE-POSITIONED THE GNS-430 NAVIGATION UNIT AND THE GTX-327 TRANSPONDER DOWN 3 INCHES IN THE RADIO MOUNTING STRUCTURE USING POSITIONS FROM THE DIAMOND FACTORY DESIGN IAW DIAMOND MAINT MANUAL AND WITH REFERENCE TO AC 43.13-2A CH. 2. REPLACED STARTER SYSTEM LEAD ACID BATTERY PACK P/N: LC-R121R3PU AS RECOMMENDED BY AIRCRAFT MANUFACTURER.

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Further details are on file at this repair station under the above work order.

DATE: 11/19/2008  
 SIGNED: *[Signature]*  
 Mike Barringer  
 Certified Repair Station No. NDMR725J  
 Work Order: 1904-10-2008  
 Printed by EBIS 3 (dalcommedia.com)

MAKE: DIAMOND  
 MODEL: DA-20-C1  
 SN: C0168  
 REG. NO: N168DC  
 WORK ORDER: 2057-05-2009

DATE: 5/19/2009  
 A/C TSN: HOBBS 313.5

Airframe Entries

REMOVED XM RADIO AUDIO CORD AND INSTALLED MIL SPEC M22759/18 TEZEL 22 GAGE WIRE WITH 1/8" STEREO PLUGS FOR GPSMAP 496 INTERFACE. WIRED ROUTED WITH REFERENCE TO AC 43.13-1B CH. 11. ADDED XM ANTENNA CABLE EXTENSION MAKING XM ANTENNA REMOVABLE FROM GLARE SHIELD. INSTALLED AERODIAP FIRE SLEEVE OVER PORTABLE GPS POWER/DATA CABLE AND XM ANTENNA CABLE BEHIND INSTRUMENT PANEL. THE FIRE SLEEVE P/N: AET02-14 WHICH MEETS THE REQUIREMENTS OF FAA TSO-C53a OR TSO-C75 FOR FIRE RESISTANCE. CABLES AND SLEEVEING ROUTED AND SECURED ADHEREING TO PRACTICES OF AC 43.13-1B CH. 11.

DATE: 5/19/2009  
 SIGNED: *[Signature]*  
 Mike Barringer  
 Certified Repair Station No. NDMR725J  
 Work Order: 2057-05-2009  
 Printed by EBIS 3 (dalcommedia.com)

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and the aircraft/engine/propeller/appliance manufacturer's maintenance manual instructions and procedures. This aircraft is approved for return to service with respect to the above work performed. Further details are on file at this repair station under the work order number reflected on this log entry.



# AIR TIME AND

10

## ENGINEERING RECORD

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
	HRS.	MIN.	HRS.	MIN.
BROUGHT FORWARD				

12/29/08 N168DC S/N# C0168 MOD# DA20-C1 Tach 278.5 Hobbs 318.7

1. Replaced axle bolt nuts and washers that were starting to show rust on both main landing gear with MS21044C5 nuts and NAS1149C0532R washers
2. Jack aircraft, installed new RH main tire 500-5 6ply Michelin Air and tube. Check for roughness in wheel bearings all sound good.
3. Inspect fire extinguisher for proper servicing, checked good.
4. Clean area of chip in finish of propeller outboard and aft of leading edge and at trailing edge same area, seal and refinish both spots.
5. Installed bottom LH & RH Baffle Assy, winter kit.
6. Seal gap between jack pads and painted wing surface.
7. Replaced rusty screws in landing gear leg to fuselage seal cover panel with stainless.

**SD**Air Service Corp.  
 Rutland State Airport, North Clarendon VT 05701  
 802-775-0205

*W. Hooper* #9466634

MAKE DIAMOND  
 MODEL DA-20-C1  
 S/N C0168  
 REG NO N168DC  
 WORK ORDER  
 2163-08-2009



**North American Flight Services**  
 Repair Station No. NOMR725J  
 405 Greenfield Avenue  
 Ballston Spa, NY 12020  
 Phone 518-985-5470

DATE: 08/18/09  
 A/C TSN:  
 HOBBS: 313.5

**Airframe Entries**  
 REPLACED NOSE LANDING GEAR TIRE TUBE WITH NEW 5.00-4 IAWW DIAMOND AIRCRAFT MM. LEAK DOWN CHECK  
 SATISFACTORY AT THIS TIME.

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and the aircraft/engine/propeller/appliance manufacturers maintenance manual instructions and procedures. This aircraft is approved for return to service with respect to the above work performed. Further details are on file at this repair station under the work order number reflected on this log entry.

DATE: 08/18/09  
 SIGNED: *Ganesh Persaud*  
 Ganesh Persaud  
 Certified Repair Station No. NOMR725J




Work Order: 2163-08-2009  
 Printed by EBIS 3 (datcommedia.com)

CARRIED FORWARD



# ENGINEERING RECORD

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
<p>12/1/11 N168DC S/N# C0168 MOD# DA20-C1 Tach 393.3 Hobbs 457.</p> <p>I certify this aircraft has been inspected in accordance with an Annual. inspection using the Diamond DA20 maintenance manual 100hr inspection checklist and was found to be in a airworthy condition.</p> <ol style="list-style-type: none"> <li>1. Treat all metal components showing signs of corrosion, with Corrosion X.</li> <li>2. Replaced LH brake line B nut sleeve found cracked and leaking. Bleed LH brake</li> <li>3. Adjusted nose wheel steering friction tension per DA20 maintenance manual</li> <li>4. Replaced Avionics cooling duct found chaffed and leaking air</li> <li>5. The axial play was inspected and checked good on both B bolts at this time. Next due ATT 456.7</li> <li>6. Replaced wing to fuselage tape both sides</li> <li>7. C/W FAR 91.207(d) ELT inspection</li> </ol>		

**SDA**ir Service Corp.  
 Rutland State Airport, North Clarendon VT 05701  
 802-775-0205

DATE 3/6/2013  
 A/C TSN 421 4  
 TACH 421 4

MAKE Diamond Aircraft Ind  
 MODEL Da 20-c1  
 S/N C0168  
 REG NO N168DC  
 WORK ORDER  
 0355-12-2012

**Hildt Aviation**  
 6 Jetway Drive  
 Albany, NY 12211  
 Phone 518-470-9779

**Airframe Entries**  
 (2) INSPECTED THIS AIRCRAFT AND HAVE DETERMINED IT TO BE SAFE FOR THE INTENDED FLIGHT FROM 5B2 TO RUT I/AVW THE SPECIAL FLIGHT PERMIT DATED 03/06/2013.

**Maintenance Release**  
 The aircraft and/or component(s) on N168DC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair shop under Work Order No 0355-12-2012. Dated 3/6/2013

DATE: 3/6/2013  
 SIGNED:   
 Jamie Hulenbrandt, A&P 3039160  
 Work Order: 0355-12-2012  
 Printed by EBIS 3 (dalcomedia.com)

3/18/13 N168DC S/N# C0168 MOD# DA20-C1 Tach 422.2 Hobbs 491.5

I certify this aircraft has been inspected in accordance with an Annual. inspection using the Diamond DA20 maintenance manual 100hr inspection checklist and was found to be in a airworthy condition.

1. Treat all metal components showing signs of corrosion, with Corrosion X.
2. Check nose wheel steering friction tension per DA20 maintenance manual.
3. C/W FAR 91.207(d) ELT inspection.
4. The owner has registered the ELT with NOAA it is next due on 10/5/14
5. Replaced both main tires and tubes with Michelin Aviator 500-5 10 ply



**SDA**ir Service Corp.  
 Rutland State Airport, North Clarendon VT 05701  
 802-775-0205



DATE	TOTAL TIME	MIN.	SEC.	MIN.	SEC.
BROUGHT FORWARD					



Official 406 MHz ELT Registration Form

ELT Information

Manufacturer: Cobham Avax  
 Model No. M406S  
 Decal Expiration Date 10/05/2014

Serial ID (Unique Identifier Number): A B C D E F G H I J K L M N O P Q R S T U V W X Y Z  
 (15 digit decimal ID provided by ELT manufacturer)

North American Flight Services  
 Repair Station No. NOMR725J  
 405 Greenfield Avenue  
 Ballston Spa, NY 12020  
 Phone: 518-885-5470

DATE: 26 March, 2013  
 A/C TSN: 565  
 TACH: 423

THE TEST AND INSPECTION HAVE COMPLIED WITH THE REQUIREMENTS OF FAR 91.413 AND PART 43 APPENDIX F CERTIFIED GTX-327 TRANSPONDER P/N: 011-00490, S/N: 83706751 AND ALTITUDE DIGITIZER NEXT VFR INSP. DUE: 03-31-2015

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and the aircraft/engine/propeller/appliance manufacturer's maintenance manual instructions and procedures. This aircraft is approved for return to service with respect to the above work performed. Further details are on file at this repair station under the work order number reflected on this log entry.

DATE: 26 March, 2013  
 SIGNED: *Marco Avarado*  
 Certified Repair Station No. NOMR725J  
 Work Order: 3256-03-2013  
 Printed by Ebis 3 (datcomedia.com)

MAKE DIAMOND  
 MODEL: DA-20-C1  
 S/N: C0168  
 REG. NO. N168DC  
 WORK ORDER: 397-08-2013

North American Flight Services  
 Repair Station No. NOMR725J  
 405 Greenfield Avenue  
 Ballston Spa, NY 12020  
 Phone: 518-885-5470

REPLACED BRAKE ROTORS P/N 164-24200 AND BRAKE LININGS P/N 066-10600 AND RIVETS P/N 105-00200 AND ASSOCIATED HARDWARE. BLEED BRAKES. ALL WORK PERFORMED IN ACCORDANCE WITH DIAMOND MM 32-40-00.  
 HYDRAULIC SYSTEM FLUSHED AND REFILLED IN ACCORDANCE WITH DIAMOND MM 32-40-00.

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and the aircraft/engine/propeller/appliance manufacturer's maintenance manual instructions and procedures. This aircraft is approved for return to service with respect to the above work performed. Further details are on file at this repair station under the work order number reflected on this log entry.

DATE: 12 September, 2013  
 SIGNED: *Brian Strange*  
 Certified Repair Station No. NOMR725J  
 Work Order: 3393-08-2013  
 Printed by Ebis 3 (datcomedia.com)

North American Flight Services  
 Repair Station No. NOMR725J  
 405 Greenfield Avenue  
 Ballston Spa, NY 12020  
 Phone: 518-885-5470

REMOVE CLEANED, INSPECTED AND REBUILT RIGHT BRAKE CALIPERS PER DIAMOND MM 32-40-00. BRAKES OPS CHECK AND LEAK CHECK GOOD.

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and the aircraft/engine/propeller/appliance manufacturer's maintenance manual instructions and procedures. This aircraft is approved for return to service with respect to the above work performed. Further details are on file at this repair station under the work order number reflected on this log entry.

DATE: 10 December, 2013  
 SIGNED: *Brian Strange*  
 Certified Repair Station No. NOMR725J  
 Work Order: 3474-12-2013  
 Printed by Ebis 3 (datcomedia.com)

CARRIED FORWARD

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

MAKE DIAMOND  
 MODEL: DA-20-C1  
 S/N: C0168  
 REG. NO. N168DC  
 WORK ORDER: 3584-05-2014

DATE: 08 May, 2014  
 A/C TSN: 407 B  
 TACH: 487 B

REMOVED EXPIRED ELT BATTERY P/N 452-6499, INSTALLED NEW BATTERY P/N 452-6499, S/N 363085-010. BATTERY EXPIRATION DATE IS AUG 2021.

DATE: 08 May, 2014  
 SIGNED: *Brian Strange*  
 Certified Repair Station No. NOMR725J  
 Work Order: 3584-05-2014  
 Printed by Ebis 3 (datcomedia.com)

REMOVE CLEANED, INSPECTED AND REBUILT RIGHT BRAKE CALIPERS PER DIAMOND MM 32-40-00. BRAKES OPS CHECK AND LEAK CHECK GOOD.

DATE: 01 June, 2015  
 SIGNED: *Brian Strange*  
 Certified Repair Station No. NOMR725J  
 Work Order: 3912-04-2015  
 Printed by Ebis 3 (datcomedia.com)

REPLACED BOTH INNER AND OUTER BRAKE LININGS ON BOTH WHEELS WITH P/N 066-10600 LININGS. JAW DIAMOND MM  
 REPLACED LEFT MAIN INNER AND OUTER RACES AND BEARINGS WITH NEW P/N 214-00300 CUPS AND P/N 214-00400 CONES. JAW CLEVELAND TECH MM.  
 REPAIRED RIP IN ARMREST AS REQUESTED BY CUSTOMER. JAW AC43.13  
 THE TEST AND INSPECTION HAVE COMPLIED WITH THE REQUIREMENTS OF FAR 91.413 AND PART 43 APPENDIX F. CERTIFIED GTX-327 TRANSPONDER P/N: 011-00490, S/N: 83706751 AND ALTITUDE DIGITIZER NEXT VFR INSP. DUE: 05-31-2017.

DATE: 08 May, 2014  
 SIGNED: *Brian Strange*  
 Certified Repair Station No. NOMR725J  
 Work Order: 3584-05-2014  
 Printed by Ebis 3 (datcomedia.com)

ACCOMPLISHED ANNUAL INSPECTION.  
 ACCOMPLISHED AD SEARCH THRU 3/31/15.  
 ELT BATTERY NEXT DUE AUG/2021. COMPLETED WITH 12 MONTH ELT INSPECTION IAW 14 CFR PART 91.207(D)

DATE: 01 June, 2015  
 SIGNED: *Brian Strange*  
 Certified Repair Station No. NOMR725J  
 Work Order: 3912-04-2015  
 Printed by Ebis 3 (datcomedia.com)

REMOVED EXPIRED ELT BATTERY P/N 452-6499, INSTALLED NEW BATTERY P/N 452-6499, S/N 363085-010. BATTERY EXPIRATION DATE IS AUG 2021.

DATE: 08 May, 2014  
 SIGNED: *Brian Strange*  
 Certified Repair Station No. NOMR725J  
 Work Order: 3584-05-2014  
 Printed by Ebis 3 (datcomedia.com)

REMOVED EXPIRED ELT BATTERY P/N 452-6499, INSTALLED NEW BATTERY P/N 452-6499, S/N 363085-010. BATTERY EXPIRATION DATE IS AUG 2021.

DATE: 01 June, 2015  
 SIGNED: *Brian Strange*  
 Certified Repair Station No. NOMR725J  
 Work Order: 3912-04-2015  
 Printed by Ebis 3 (datcomedia.com)



DATE	DAILY TOTAL HRS.	MIN.	TOTAL AIR TIME SINCE MFG.	HRS.	MIN.

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE ENTRIES. DRAW

MAKE DIAMOND  
MODEL DA-20-C1  
S/N C0168  
REG NO N169DC  
WORK ORDER  
4101-09-2015

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

REMOVE NOSE WHEEL PANT FOUND GRASS AND BIRD DEBRIS INSIDE. CLEANED OUT WHEEL PANT. RE-TORQUED NOSE WHEEL. REPLACED MISSING SCREW. REINSTALLED NOSE WHEEL PANT. (AWM 32-20-00) CHECK OK ON TAXI AND LANDING.

DATE: 07 July, 2015  
SIGNED: *[Signature]*  
Work Order: 3974-06-2015  
Printed by EBIS 3 (datcomedia.com)

MAKE DIAMOND  
MODEL DA-20-C1  
S/N C0168  
REG NO N169DC  
WORK ORDER  
4099-07-2015

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

RE TORQUED NOSE WHEEL LAW DIAMOND MM 32.00.

DATE: 13 July, 2015  
SIGNED: *[Signature]*  
Work Order: 4009-07-2015  
Printed by EBIS 3 (datcomedia.com)

MAKE DIAMOND  
MODEL DA-20-C1  
S/N C0168  
REG NO N169DC  
WORK ORDER  
4135-10-2015

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

REATTACHED RIGHT MLG JACK PAD WITH PRC1440 B1/2. LAW AC 43.13

DATE: 02 October, 2015  
SIGNED: *[Signature]*  
Work Order: 4135-10-2015  
Printed by EBIS 3 (datcomedia.com)

MAKE DIAMOND  
MODEL DA-20-C1  
S/N C0168  
REG NO N169DC  
WORK ORDER  
4101-09-2015

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

REMOVE ONE GTX-327 TRANSPONDER P/N: 011-00490-00, S/N: 83708751. INSTALLED GTX-330 E/S TRANSPONDER P/N: 010-00230-61, S/N: 84149747. OPERATIONAL CHECKS SATISFACTORY. ALL WORK PERFORMED IN REFERENCE TO GTX-330 INSTALLATION MANUAL P/N: 190-00734-10 REVISION 4 AND STC # SA01714WI. REFER TO FAA FORM DATED 11/13/2015 FOR FURTHER DETAILS.

DATE: 13 November, 2015  
SIGNED: *[Signature]*  
Work Order: 4101-09-2015  
Printed by EBIS 3 (datcomedia.com)

MAKE DIAMOND  
MODEL DA-20-C1  
S/N C0168  
REG NO N169DC  
WORK ORDER  
4101-09-2015

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

REMOVE ONE GTX-327 TRANSPONDER P/N: 011-00490-00, S/N: 83708751. INSTALLED GTX-330 E/S TRANSPONDER P/N: 010-00230-61, S/N: 84149747. OPERATIONAL CHECKS SATISFACTORY. ALL WORK PERFORMED IN REFERENCE TO GTX-330 INSTALLATION MANUAL P/N: 190-00734-10 REVISION 4 AND STC # SA01714WI. REFER TO FAA FORM DATED 11/13/2015 FOR FURTHER DETAILS.

DATE: 13 November, 2015  
SIGNED: *[Signature]*  
Work Order: 4101-09-2015  
Printed by EBIS 3 (datcomedia.com)

MAKE DIAMOND  
MODEL DA-20-C1  
S/N C0168  
REG NO N169DC  
WORK ORDER  
4101-09-2015

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

REMOVE ONE GTX-327 TRANSPONDER P/N: 011-00490-00, S/N: 83708751. INSTALLED GTX-330 E/S TRANSPONDER P/N: 010-00230-61, S/N: 84149747. OPERATIONAL CHECKS SATISFACTORY. ALL WORK PERFORMED IN REFERENCE TO GTX-330 INSTALLATION MANUAL P/N: 190-00734-10 REVISION 4 AND STC # SA01714WI. REFER TO FAA FORM DATED 11/13/2015 FOR FURTHER DETAILS.

MAKE DIAMOND  
MODEL DA-20-C1  
S/N C0168  
REG NO N169DC  
WORK ORDER  
4100-09-2015

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

REMOVE GARMIN GNS-430 P/N: 810-000-0000, S/N: 97103535 AND SENT IN TO GARMIN FOR 15 GRADE. RECEIVED AND INSTALLED UPGRADED GARMIN GNS-430 P/N: 010-00412-40, S/N: 97103535. REMOVED ANTENNA FROM GARMIN GNS-430 P/N: 010-00412-40, S/N: 97103535. INSTALLED NEW GARMIN GA-35 GPS/MAAS ANTENNA P/N: 013-00235-00, S/N: 119407. OPERATIONAL CHECKS SATISFACTORY. ALL WORK PERFORMED IN REFERENCE TO GARMIN UPGRADE INSTALLATION MANUAL P/N: 190-00057-00 REVISION E. THIS INSTALLATION SATISFIES THE REQUIREMENTS OF COMPLIANCE WITH FAA AND CANADIAN 2020 ADS-B OUT REQUIREMENTS. SEE FAA 337 FORM DATED 11/13/2015.

DATE: 13 November, 2015  
SIGNED: *[Signature]*  
Work Order: 4100-09-2015  
Printed by EBIS 3 (datcomedia.com)

MAKE DIAMOND  
MODEL DA-20-C1  
S/N C0168  
REG NO N169DC  
WORK ORDER  
4227-01-2016

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

PERFORMED SOFTWARE UPDATE FROM VERSION 7.04 TO 8.02 ON GTX-330 E/S TRANSPONDER. OPERATIONAL CHECKS SATISFACTORY. ALL WORK PERFORMED IN REFERENCE TO GARMIN SOFTWARE SERVICE BULLETIN 1578 REVISION A DATED DECEMBER 3, 2015 AND GTX-330 INSTALLATION MANUAL.

DATE: 04 January, 2016  
SIGNED: *[Signature]*  
Work Order: 4227-01-2016  
Printed by EBIS 3 (datcomedia.com)

MAKE DIAMOND  
MODEL DA-20-C1  
S/N C0168  
REG NO N169DC  
WORK ORDER  
4371-05-2016

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

ACCOMPLISHED AIRFRAME ANNUAL INSPECTION  
ACCOMPLISHED AD SEARCH THRU 5/27/16.  
ACCOMPLISHED SB REVIEW THRU 5/27/16 REFERENCE DIAMOND SB LIST.  
PERFORMED 12 MONTH ELT INSPECTION LAW 14 CFR PART 91.207(d). BATTERY DUE AUGUST 2021.  
VERIFIED PREVIOUSLY COMPLETED WITH NEXT DUE 05-31-2017  
REPLACED LH AND RH BRAKE LININGS WITH NEW LININGS P/N 086-10600 WORK PERFORMED REFERENCE DIAMOND MANUAL DOC# DA201-C1 CHAPT 32.40-00

DATE: 02 June, 2016  
SIGNED: *[Signature]*  
Work Order: 4371-05-2016  
Printed by EBIS 3 (datcomedia.com)

MAKE DIAMOND  
MODEL DA-20-C1  
S/N C0168  
REG NO N169DC  
WORK ORDER  
4371-05-2016

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND IS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE.

DATE: 02 June, 2016  
SIGNED: *[Signature]*  
Work Order: 4371-05-2016  
Printed by EBIS 3 (datcomedia.com)

MAKE DIAMOND  
MODEL DA-20-C1  
S/N C0168  
REG NO N169DC  
WORK ORDER  
4371-05-2016

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

REMOVE ONE GTX-327 TRANSPONDER P/N: 011-00490-00, S/N: 83708751. INSTALLED GTX-330 E/S TRANSPONDER P/N: 010-00230-61, S/N: 84149747. OPERATIONAL CHECKS SATISFACTORY. ALL WORK PERFORMED IN REFERENCE TO GTX-330 INSTALLATION MANUAL P/N: 190-00734-10 REVISION 4 AND STC # SA01714WI. REFER TO FAA FORM DATED 11/13/2015 FOR FURTHER DETAILS.

DATE: 13 November, 2015  
SIGNED: *[Signature]*  
Work Order: 4101-09-2015  
Printed by EBIS 3 (datcomedia.com)

REMOVE ONE GTX-327 TRANSPONDER P/N: 011-00490-00, S/N: 83708751. INSTALLED GTX-330 E/S TRANSPONDER P/N: 010-00230-61, S/N: 84149747. OPERATIONAL CHECKS SATISFACTORY. ALL WORK PERFORMED IN REFERENCE TO GTX-330 INSTALLATION MANUAL P/N: 190-00734-10 REVISION 4 AND STC # SA01714WI. REFER TO FAA FORM DATED 11/13/2015 FOR FURTHER DETAILS.

DATE: 13 November, 2015  
SIGNED: *[Signature]*  
Work Order: 4101-09-2015  
Printed by EBIS 3 (datcomedia.com)

REMOVE ONE GTX-327 TRANSPONDER P/N: 011-00490-00, S/N: 83708751. INSTALLED GTX-330 E/S TRANSPONDER P/N: 010-00230-61, S/N: 84149747. OPERATIONAL CHECKS SATISFACTORY. ALL WORK PERFORMED IN REFERENCE TO GTX-330 INSTALLATION MANUAL P/N: 190-00734-10 REVISION 4 AND STC # SA01714WI. REFER TO FAA FORM DATED 11/13/2015 FOR FURTHER DETAILS.

DATE: 13 November, 2015  
SIGNED: *[Signature]*  
Work Order: 4101-09-2015  
Printed by EBIS 3 (datcomedia.com)

REMOVE ONE GTX-327 TRANSPONDER P/N: 011-00490-00, S/N: 83708751. INSTALLED GTX-330 E/S TRANSPONDER P/N: 010-00230-61, S/N: 84149747. OPERATIONAL CHECKS SATISFACTORY. ALL WORK PERFORMED IN REFERENCE TO GTX-330 INSTALLATION MANUAL P/N: 190-00734-10 REVISION 4 AND STC # SA01714WI. REFER TO FAA FORM DATED 11/13/2015 FOR FURTHER DETAILS.

**07-07-2017 right brake missing label after service; this is the left brake label**

**Cleveland Wheels & Brakes**  
Parker Hannifin Corporation  
Aircraft Wheel & Brake  
Avon, Ohio 44011  
Part No. 30-9D  
Torque backplate tie bolts 75-80 in.-lbs

**FAA-1350-C26A**  
05101



DATE MAKE DIAMOND  
MODEL DA-20-C1  
S/N CO186  
REG NO N1840C  
WORK ORDER 4861-08-2017

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

DATE 03 August 2018  
A/C TSN: 6033  
TACH: 6033

Signature: Brian Strange  
Printed by Ebis 3 (dalcoimedia.com)

**FORWARD Airframe Entries**  
REBUILT BRAKE CALIPER CHANGED BROKEN SLEEVE AND B NUT ON BRAKE LINE. BLEED BRAKES.  
OPS CHECK AND LEAK CHECK GOOD.  
ACCOMPLISHED AIRFRAME ANNUAL INSPECTION LAW DIAMOND DA20-C1 MM 5-20-00

ACCOMPLISHED AD SEARCH THRU 7/6/2017  
PERFORMED 12 MONTH ELT INSPECTION LAW 14 CFR PART 91.207(d) BATTERY DUE AUG 2021.  
REMOVED RH AND LH MAIN TIRES AND TUBES AND REPLACED WITH NEW TIRES P/N 06-00019  
5-00-5 AND REPLACED RH AND LH TIRES P/N 071-311-0 S/N 5047500133. LH TIRE P/N  
071-311-0 S/N 6310500250 LAW DIAMOND DA20-C1 MAINTENANCE MANUAL SECTION 32-40-00  
INSTALLED A NEW AIR FILTER P/N BA235EIRW DA20-C1 AMM.

I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND IS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE

DATE 07 July 2017 SIGNED *Brian Strange*  
Brian Strange  
Certified Repair Station No. NOMR725J  
Work Order: 4861-08-2017  
Printed by Ebis 3 (dalcoimedia.com)

MAKE DIAMOND  
MODEL DA-20-C1  
S/N CO186  
REG NO N1840C  
WORK ORDER 4861-08-2017

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

DATE 02 August 2019  
A/C TSN: 6145  
TACH: 6145

Signature: Brian Strange  
Printed by Ebis 3 (dalcoimedia.com)

**Avionics Entries**  
THE TEST AND INSPECTION HAVE COMPLIED WITH THE REQUIREMENTS OF FAR 91.413, 91.227 AND PART 43 APPENDIX F. CERTIFIED TRANSPONDER P/N: 011-00455-60, S/N: 84149747 AND TRANS-CAL ALTITUDE ENCODER P/N: SSD120-30A, S/N: 49332 NEXT VFR INSP. DUE: 07-31-2019.

I CERTIFY THIS PROPELLER HAS BEEN INSPECTED LAW AN ANNUAL INSPECTION AND HAS BEEN FOUND TO BE IN AIRWORTHY CONDITION

DATE 07 July 2017 SIGNED *Brian Strange*  
Brian Strange  
Certified Repair Station No. NOMR725J  
Work Order: 4861-08-2017  
Printed by Ebis 3 (dalcoimedia.com)

MAKE DIAMOND  
MODEL DA-20-C1  
S/N CO186  
REG NO N1840C  
WORK ORDER 5118-12-2017

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

DATE 02 August 2019  
A/C TSN: 6145  
TACH: 6145

Signature: Brian Strange  
Printed by Ebis 3 (dalcoimedia.com)

**Airframe Entries**  
REMOVED ALL ATTACHING HARDWARE TO FACILITATE REPAIR. REMOVED OLD FIRE RESISTANT PAINT FROM UNDERSIDE OF UPPER COWLING.  
CLEANED ENTIRE UPPER COWLING AND PREPPED AREA FOR REPAIR.  
APPLIED TWO COATS OF FIRE RESISTANT PAINT. P/N 7330BP0802-KCH0. LAW DIAMOND MM CH 53-10-00.  
CLEANED AREA AND RETAPPED FOR CLEAR COAT. APPLIED TWO COATS OF CLEAR COAT P/N 368 0061 ALL WORK DONE IRW DIAMOND MM CH 53-10-00  
REMOVED PAPER AND TAPE. CLEANED COWLING AND REINSTALLED ALL ORIGINAL HARDWARE.

The aircraft identified above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and the aircraft manufacturer's maintenance manual instructions and procedures. This aircraft is approved for return to service with respect to the above work performed. Further details are on file at this repair station under the work order number reflected on this log entry.

DATE 08 January 2018 SIGNED *Brian Strange*  
Brian Strange  
Certified Repair Station No. NOMR725J  
Work Order: 5118-12-2017  
Printed by Ebis 3 (dalcoimedia.com)

**Airframe Entries**  
ACCOMPLISHED AIRFRAME ANNUAL INSPECTION. IRW DIAMOND DA-20 INSPECTION CHECKLIST. PERFORMED 12 MONTH ELT INSPECTION LAW 14 CFR PART 91.207(d) BATTERY DUE AUG 2021.  
INSTALLED A NEW BA235E AIR FILTER  
ACCOMPLISHED AD SEARCH THRU 7/19/2018  
REMOVED ALL EXISTING FIREPROOF PAINT. CLEANED AND PREPPED AND TAPPED AREA TO BE PAINTED. APPLIED TWO COATS OF CUSTOMER SUPPLIED FIRE PROOF PAINT 7330BP0802-KCH0 DIAMOND MM CH 53-10-00.  
APPLIED TWO COATS OF CUSTOMER SUPPLIED CLEAR COAT 3680061. ALL WORK DONE IRW

I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND IS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE

DATE 03 August 2018 SIGNED *Frank Herba*  
Frank Herba  
Certified Repair Station No. NOMR725J  
Work Order: 5339-07-2018  
Printed by Ebis 3 (dalcoimedia.com)

MAKE DIAMOND  
MODEL DA-20-C1  
S/N CO186  
REG NO N1840C  
WORK ORDER 5585-07-2018

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

DATE 02 August 2019  
A/C TSN: 6145  
TACH: 6145

Signature: Brian Strange  
Printed by Ebis 3 (dalcoimedia.com)

**Airframe Entries**  
ACCOMPLISHED AIRFRAME ANNUAL INSPECTION  
ACCOMPLISHED AD SEARCH THRU 8/1/2019  
ACCOMPLISHED ELT INSPECTION LAW 14 CFR PART 91.207(d) BATTERY DUE AUG 2021.  
INSTALLED A NEW AIRFRAME FILTER P/N BA-235E  
REMOVED BOTH RH AND LH WORN BRAKE PADS AND REPLACED WITH NEW P/N 069-10800  
INSTALLED A NEW BATTERY P/N LC-R121R3P. S/N RC1906618 AND MAIN BATTERY Y50-N1BL-A-CX OPS CHECK GOOD.

I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND IS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE

DATE 02 August 2019 SIGNED *Brian Strange*  
Brian Strange  
Certified Repair Station No. NOMR725J  
Work Order: 5585-07-2018  
Printed by Ebis 3 (dalcoimedia.com)

MAKE DIAMOND  
MODEL DA-20-C1  
S/N CO186  
REG NO N1840C  
WORK ORDER 5585-07-2018

North American Flight Services  
Repair Station No. NOMR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

DATE 02 August 2019  
A/C TSN: 6145  
TACH: 6145

Signature: Brian Strange  
Printed by Ebis 3 (dalcoimedia.com)

**Avionics Entries**  
THE ATC TRANSPONDER HAS BEEN TESTED, AS REQUIRED BY FAR 91.413, AND COMPLIES WITH APPENDIX F OF PART 43  
CERTIFIED TRANSPONDER. GARMIN GTX-330  
P/N 011-00455-60, S/N: 84149747  
TRANS-CAL ALTITUDE ENCODER  
P/N SSD120-30A, S/N 49332  
NEXT INSPECTION: AUGUST 30, 2021.

I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH THE AIRCRAFT MANUFACTURER'S CURRENT RECOMMENDED INSPECTION PROGRAM AND AS REQUIRED BY DOT TITLE 14 CFR PART 91.409(f)(3) THIS AIRCRAFT IS APPROVED FOR RETURN TO SERVICE

DATE 02 August 2019 SIGNED *Brian Strange*  
Brian Strange  
Certified Repair Station No. NOMR725J  
Work Order: 5585-07-2018  
Printed by Ebis 3 (dalcoimedia.com)

CARRIED FORWARD







AIRFRAME LOG

1. Nationality and Registration N1682C
2. Manufacturer's Designation DA20-C1
3. Record of
  - (a) Engine Installations
  - (b) Propeller Installations
  - (c) Airworthiness Directives (A/D)
  - (d) Service Bulletins (S/B)
  - (e) Special Inspections (S/I)
  - (f) Modifications (MODS)







NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

A fixed pitch wood composite MT propeller, Model No. MT175R150-2Ca was installed in accordance with STC# SA03373AT

N168DC Nationality and Registration Mark  
 \_\_\_\_\_ Date

END \_\_\_\_\_

[ ] Additional Sheets Are Attached

MAJOR REPAIR AND ALTERATION  
 Airframe, Powerplant, Propeller, or Appliance

See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for information on this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each

if type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for information on this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each

if type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for information on this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each

Serial No. **C0168**  
 Model **DA-20** Series **C1**  
 Address (As shown on registration certificate)  
**IAMOND**  
 333 BROADWAY APT 304  
 SARATOGA SPRINGS  
 NY 12866-4188  
 Country USA

3. For FAA Use Only

5. Unit Identification			
Unit	Make	Model	Serial No.
DIAMOND		(As described in Item 1 above)	C0168
AIRFRAME			
POWERPLANT			
PROPELLER	Type		
APPLIANCE	Manufacturer		

6. Conformity Statement

B. Kind of Agency  
 U.S. Certificated Mechanic  
 Foreign Certificated Mechanic  
 Certified Repair Station NOMR725J  
 Certified Maintenance Organization

C. Certificate No.  
**NOMR725J**

Signature/Date of Authorized Individual  
 \_\_\_\_\_  
 11/13/2015

7. Approval for Return to Service

Authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Federal Aviation Administration and is  Approved  Rejected

Standards	Manufacturer	Maintenance Organization	Other (Specify)
Repair Station	Inspection Authorization		

Signature/Date of Authorized Individual  
 \_\_\_\_\_  
 11/13/2015



# Supplemental Type Certificate

## Number SA01714WI

Garmin International, Inc.  
1200 East 151<sup>st</sup> Street  
Olathe, KS 66062

*Change in the type design for the following product with the limitations and conditions specified herein meets the airworthiness requirements of Part 23\* of the Federal Aviation*

<i>Number:</i>	* See attached Approved Model List (AML) No.
<i>Make:</i>	SA01714WI dated May 1, 2013 or later FAA-
<i>Model:</i>	approved revision for list of approved aircraft models and applicable airworthiness regulations.

*Type Design Change:*  
Garmin GTX 330/330D/3333D with ADS-B Out functionality.

*Refer to the following Supplemental Type Certificate (STC) or Supplemental Drawing List (MDL) for the design data specified in the design data specified in the Master Drawing List (MDL) listed above for specific hardware and software:*  
STC Drawing List (MDL) 005-00734-04, Revision 1, dated May 1, 2013 or later FAA-approved revision.  
Airplane Flight Manual Supplement or Supplemental Airplane Flight Manual (AFMS), 190-00734-15, Revision 1, 1, 2013 or later FAA-approved revision.

*and Conditions:*  
The design data specified in the Master Drawing List (MDL) listed above for specific hardware and software installations involving the Garmin transponder GTX 330/330D models require the previous installation of a Garmin GTX 330/330D model's position source information. Refer to the design data specified in the Master Drawing List (MDL) listed above for specific hardware and software requirements.

*and Conditions:*  
The design data specified in the Master Drawing List (MDL) listed above for specific hardware and software installations involving the Garmin transponder GTX 3333D models require the previous installation of at least one Garmin GTX 330/330D model's position source information. Refer to the design data specified in the Master Drawing List (MDL) listed above for specific hardware and software requirements.

*and Conditions:*  
The design data specified in the Master Drawing List (MDL) listed above for specific hardware and software installations involving the Garmin transponder GTX 3333D models require the previous installation of at least one Garmin GTX 330/330D model's position source information. Refer to the design data specified in the Master Drawing List (MDL) listed above for specific hardware and software requirements.

Issued: August 7, 2012

Renewed: May 1, 2013

*Date renewed:* April 29, 2014

*By direction of the Administrator*

  
(Signature)

Michael V. Warren  
ODA STC Unit Administrator  
ODA-240087-CE  
Garmin International, Inc.

(Title)









**Diamond**  
 Date: January 02, 2002, S/N: C0168, Reg. #: N168DC  
 Engine S/N: 806379 Prop S/N: AE 7715

AWD Directives Checked Through to Issue 2002-01  
 Revision # 13 Service Bulletin Listing:

- DAC1-24-01 - Generator Lower Attaching Bolt Replacement - N/A due to S/N
- DAC1-24-04 - Generator Attachment Bracket - N/A by S/N
- DAC1-24-05 - B & C Battery Retrofit - CW
- DAC1-28-01 - Type II Fuel System/ Pump Retrofit - N/A due to S/N
- DAC1-28-02 - 2 Speed Electric Fuel Pump System - N/A by S/N
- DAC1-28-02 - 2 Speed Electric Fuel Pump System - N/A due to S/N
- DAC1-52-01 - Canopy Seal Replacement - N/A due to S/N
- DAC1-52-03 - Canopy Lock Cover Plate Installation - N/A due to S/N
- DAC1-55-01A - Horizontal Stabilizer Attachment - CW
- DAC1-55-01A - Spinner Bulkhead and prop bolt torque - CW
- DAC1-51-00A - Sensenich W69EK7-63 Propeller Installation - CW
- DAC1-61-01 - Ignition Harness Routing - CW
- DAC1-74-01 - Installation of magneto-starting vibrator battery - N/A by S/N
- DAC1-74-02 - Installation of magneto-starting vibrator battery - N/A by S/N
- DAC1-76-01 - Mixture Cable Kinking - CW
- DAC1-79-01 - Power Plant Cooling - CW
- SID 98-10A - Procedures and specs for adjustment of Fuel Injection System - CW
- SI 98-10A - Procedures and specs for adjustment of Fuel Injection System - CW
- SI 98-5 - TCM Replacement of Magnetos (superseded by SS199-2) - N/A
- SI 98-6 - TCM Eng. Lifting Eye, Starter Motor Clutch Assy. Install - CW
- SI 99-2 - Ignition System Upgrade - CW
- SI 99-3 - N/A by starter type

**NEXT TORQUE DUE AT FIRST 25 FLIGHT HOURS**

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

DIAMOND AIRCRAFT INDUSTRIES D.O.T. APPROVAL # 161-93

Signature

*[Handwritten Signature]*

Lic. Or Stamp

DA 09

12/29/08 TTA  
 2783  
 SB DACI-74-01

Mag brush problem N/A by Sec. #  
 New stick harness M-404s installed

SB DACI-74-01 clw see Elog entry 12/29/08

*[Handwritten Signature]*

AP46667  
 AP46666



# Airworthiness Directive Compliance Record

File ID: **N168DC**

Profile Content Version: 1/28/2005

AD Number Effective Date	Description	Complied Date Time	Status Method of Compliance/Applicability	Once or Recur	Next Due Date Time	1. Facility    3. Cert. 2. Cert. Type 4. Author. By
<b>Manufacturer</b> ACS Products Company		<b>Category</b> Ignition Switches		<b>Model</b> IGNITION SWITCHES		<b>Part #:</b>  <b>Serial #:</b>
<b>93-05-06</b> <b>4/29/1993</b>	TO PREVENT FAILURE OF IGNITION SWITCHES	10/29/2003 210.7	Not due at this time.	Recur	2000.0Hrs	1. Montgomery County 2. A&P / IA 3. 2790880 4. John Kix
©ATP	©ATP			©ATP	Signature: <i>John Kix</i>	



ENGINE LOG

1. Make CONTINENTAL
2. Model 10 240B
3. Specification E750
4. Manufacturer's Serial Number 806379
5. Date of Manufacture \_\_\_\_\_
6. Aircraft Inspection Cycle \_\_\_\_\_







# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL	
	HRS.	MIN.	HRS.	MIN.
BROUGHT FORWARD				

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE

# MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS  
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

10/03/02 NI68DC Tach 94.4  
 Compression: #1 74/80 #2 72/80 #3 72/80 #4 72/80  
 Oil drained and filter changed. Serviced engine with 6 qts Phillips 20W-50XC oil. Cleaned, gapped and tested all spark plugs. Replaced leaking rocker cover gaskets as necessary. Cleaned and repainted inside of cowling with heat resistant paint as necessary. Set up fuel system to conform with specs as outlined in SID98-10A. Test run - operational and leak check fine. I certify that this Engine has been inspected in accordance with a 100hr Inspection and was determined to be in Airworthy condition.  
*John R. Kitzler* AIP 208641886  
 John Kix A&P 208641886  
 Corporate Flight Concepts

9/8/03 NI68DC Tach 161.0  
 Oil drained and filter changed. Serviced engine with 6 qts Aeroshell 15W-50 oil. Test run - leak check fine.  
*David Wunderlich* IA185387229  
 David Wunderlich IA185387229  
 Corporate Flight Concepts

2/13/03 NI68DC Tach 112.9

Compression: #1 72/80 #2 72/80 #3 72/80 #4 72/80  
 Oil drained and filter changed, serviced engine with 6 qts Aeroshell 15W-50 oil. Cleaned, gapped and tested all spark plugs. Cleaned heat mark on cowling and repainted with Diamond heat resistant paint. Test run - leak and operational check fine. I certify that this Engine has been inspected in accordance with a Annual Inspection and was determined to be in Airworthy condition.

*David Wunderlich* IA185387229  
 David Wunderlich IA185387229  
 Corporate Flight Concepts

10-24-03 Engine total Time 210.7 Tach Time 210.7 Serviced and rep engine in accordance with FAA 2101-1 insp guide. Comp. 14. (1) 74/80 (2) 74/80 (3) 74/80 (4) 75/80 Runaround. Gapped and insp. oil filter and found to be normal. Installed new oil filter per overhaul. Annual engine oil and Serviced with capts Aeroshell 15W50 SPT fuel pressures in accordance with STA 98-10A Engine leak and caps checked good.  
*David Wunderlich*

**MANAGER 6 AERO SERVICE, INC**

I certify that this aircraft and engine have been inspected in accordance with Annual Inspection check list and found to be in airworthy condition.  
 Date: 10-24-03 For Time: 210.7  
*David Wunderlich*

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

TOTAL THIS PAGE	
TOTAL FROM PREVIOUS SUMMARY	
TOTAL HOURS MFG.	

CARRIED FORWARD



# ENGINE SERVICE AND

# MAINTENANCE RECORD

DATE	TIME RUN		TIME SINCE OVERHAUL		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
3/30/05					TACH: 236.0 N168DC Drained Oil and changed Filter. Serviced Engine with 6 Qrts Aeroshell 15W50. Leak check good. CW SID97-3C adjusted Idle and Fuel Pressures I.A.W latest revisions. Reconnected Drain Line on Cylinder #1. Replaced Air Filter Element with new. I certify that this Engine has been Inspected I.A.W an Annual Inspection as per Diamond DA20-C1 AMM and was determined to be in airworthy condition. <i>John Liv IT 2990880</i>

CYLINDER NO.	COMPRESSION CHECK					
	1	2	3	4	5	6
3	80	75	75	75	75	75
2	80	75	75	75	75	75
1	80	75	75	75	75	75
6	X	X	X	X	X	X

Montgomery County Aviation LLC.

TACH: 241.4 N168DC 3/27/06  
 Cleaned and serviced all Spark Plugs. I certify that this Engine has been Inspected I.A.W an Annual Inspection and was determined to be in airworthy condition.  
*John Liv IT 2990880*  
 Montgomery County Aviation LLC.

TACH: 263.4 N168DC 5/22/07  
 Drained Oil and changed Filter. Serviced Engine with 6 Aeroshell 15W50. Cleaned and serviced all Spark Plugs, replaced one Plug with new. I certify that this Engine has been Inspected I.A.W an Annual Inspection and was determined to be in airworthy condition. Only those items specified above have been inspected and found to be Airworthy. No other representation concerning Airworthiness is expressed or implied.  
*John Liv IT 2990880*  
 Montgomery County Aviation LLC.

REPAIRS, ADJUSTMENTS, MODIFICATIONS  
 ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

TACH: 266.0 N168DC 4/18/08  
 Drained Oil and changed Filter. Serviced Engine with 6 Aeroshell 15W50. Reconditioned all Spark Plugs. I certify that this Engine has been Inspected I.A.W an Annual Inspection and was determined to be in airworthy condition. Only those items specified above have been inspected and found to be Airworthy. No other representation concerning Airworthiness is expressed or implied.  
*John Liv IT 2990880*  
 Montgomery County Aviation LLC.

CYLINDER COMPRESSIONS					
1	2	3	4	5	6
72	72	72	75	NA	NA

N#168DC

Tach: 266.2 N168DC 8/6/08  
 Replaced Oil Pressure Transducer I.A.W DA20-C1 AMM. Test ran Aircraft operation normal, no leaks. Only those items specified above have been inspected and found to be Airworthy. No other representation concerning Airworthiness is expressed or implied.  
*John Liv IT 2990880*  
 Montgomery County Aviation LLC.

ENGINE MODEL: Advanced Aircraft Services LP  
 ENGINE S/N: 500 Airport Road Suite D  
 REG. NO: N168DC LITZ, PA 17243  
 WORK ORDER: 731 Phone: 717-335-5179

Engine Entries  
 Completed an Annual Inspection IAW the Diamond DA20-C1 AMM check list. Compressions: M/O reading 50, #1 74/80, #2 75/80, #3 75/80, #4 74/80. Drained the engine oil and replaced filter. Serviced engine with 7 qts of Aeroshell 15/50w. Cut open filter and inspected, no contamination noted at this time. Performed oil analysis. Megged the ignition harness, cleaned, gapped and tested all plugs, ultrasonic cleaned all fuel nozzles, checked mag timing, replaced the induction air filter, ground run and leak checked good. All AD's current thru 08-19.-END.

I certify that this ENGINE has been inspected IAW an Annual Inspection and was found to be in Airworthy condition.  
 DATE: 9/17/2008  
 SIGNED: *Richard A. Barnhart*  
 Richard A. Barnhart, II, DC 3124554  
 Work Order: 731  
 Printed by EBIS 3 (dalcomedia.com)

TOTAL THIS PAGE	
TOTAL FROM PREVIOUS SUMMARY	
TOTAL SINCE WPG.	

CARRIED FORWARD

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.







MAINTENANCE RECORD

NAME: DIAMOND  
 MODEL: DA-20-C1  
 REG NO: N168DC  
 WORK ORDER: 2248-11-2009

DATE: 11/20/2009  
 AC TSN: 374.1  
 HOBBS: 374.1

North American Flight Services  
 Repair Station No. N0MR725J  
 405 Greenleaf Avenue  
 Station Sq., NY 12020  
 Phone: 518-885-5470

Signature: *[Signature]*  
 DATE: 11/20/2009  
 SIGNED: Jamie Hildenbrandt  
 Certified Repair Station No. N0MR725J  
 Work Order: 2248-11-2009  
 Printed by: EBIS 3 (dalcommedia.com)

ATIONS,  
 REQUIRED FOR COMPLETE

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.  
 REPAIRS, ADJUSTMENTS, MODIFICATIONS

SIGNATURE  
 LICENCE NUMBER

8/16/10 N168DC MOD# IO-240-B SER# 806379 Tach 349.2 Hobbs 404.2

A fuel injection system inspection was performed and adjusted per SID97-3E

RPM	unmetered actual, psi	unmetered spec, psi	unmetered adjusted to
1000.	10.5	9.4-9.8	9.5
RPM	metered actual, psi	metered spec, psi	metered adjusted to
2200.	12.	9.9 ± 0.3	9.9

*[Signature]*  
 AFR 3223475

SDair Service Corp.  
 Rutland State Airport, North Clarendon VT 05701  
 802-775-0205

ENGINE MODEL: North American Flight Services  
 ENGINE S/N: Repair Station No. N0MR725J  
 REG NO: N168DC 405 Greenleaf Avenue  
 WORK ORDER: Station Sq., NY 12020  
 2592-09-2010 Phone: 518-885-5470

DATE: 07 September, 2010  
 AC TSN: 354.7  
 ENGT: 41.2  
 HOBBS: 354.7

Engine Entries  
 DRAINED OIL AND INSPECTED FILTER. NO DISCREPANCIES NOTED AT THIS TIME. REPLACED OIL FILTER WITH NEW CH48108-1 AND OIL WITH 6 QUARTS EXXON ELITE 20W50. VISUALLY INSPECTED ENGINE AND ENGINE COMPARTMENT FOR ABNORMALITIES. NO DISCREPANCIES NOTED AT THIS TIME. PERFORMED ENGINE GROUND RUN. OPS AND LEAK CHECKS SATISFACTORY.

The engine identified above was inspected/repared in accordance the aircraft/engine manufacturer inspection program as required per FAA 14 CFR 91.409(f)(3). All work was performed in accordance with the applicable aircraft/engine manufacturer maintenance manual procedures. I certify this engine to be in airworthy condition and is approved for return to service.

DATE: 07 September, 2010 SIGNED: *[Signature]*  
 Jamie Hildenbrandt  
 Certified Repair Station No. N0MR725J  
 Printed by: EBIS 3 (dalcommedia.com)

CARRIED FORWARD

1. Inspect spark plugs, remove loose lead and reinstall, replace spark plugs gaskets.
2. Replaced front LH bottom baffle after a crack was found.
3. Removed, cleaned and reinstalled fuel injectors
4. Replaced #2 cylinder push rod tubes found corroded and applied primer to #2 cylinder push rod springs installed with new rocker shaft lock washers and gaskets
5. Installed a new induction air filter
6. Installed a new alternator belt when the propeller was replaced.
7. Replaced #4 aft rocker gasket found seeping.
8. added 15L Castrol to engine oil

*[Signature]* AP 9466674

SDair Service Corp.  
 Rutland State Airport, North Clarendon VT 05701  
 802-775-0205

HILDT SERVICES, LLC  
 DATE: 4/11/2011  
 A/C TIME: 364.7

MAKE: DIAMOND  
 MODEL: DA-20-C1  
 S/N: C0168  
 REG #: N168DC

Engine Entries  
 DRAINED OIL AND INSPECTED FILTER. NO DISCREPANCIES NOTED AT THIS TIME. REPLACED OIL FILTER WITH NEW CH48108-1 & OIL WITH 6 QTS. EXXON ELITE 20W50. INSPECTED ENGINE COMPARTMENT FOR ABNORMALITIES. NO DISCREPANCIES NOTED AT THIS TIME. PERFORMED ENGINE GROUND RUN. OPS AND LEAK CHECK SATISFACTORY. WORK DONE I/A/W DA-20-C1 M.M. & AC 43.13 STANDARD PRACTICES

JAMIE HILDENBRANDT  
 A&P3039160  
 4/11/2011

Tach 392.7 6 qt Exxon Elite 20W50  
 Chng oil filter + wash.

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

Copy of 05-08-11







**MAINTENANCE RECORD**

TSMOH 421.4  
TACH 421.4

ENGINE SN 806379  
REG NO N168DC  
WORK ORDER  
0355-12-2012 Albany, NY 12211  
Phone 518-470-9779

**Engine Entries**  
 (1) REMOVED AND REPLACED FLOW DIVIDER AFTER OVERHAUL WITH SAME PN: 646508-12AD SN: C01CA057 VAW TCM OVERHAUL MANUAL C/W SID97-37E AT THIS TIME. GROUND OPS AND LEAK CHECK SATISFACTORY.  
 (2) INSPECTED THIS ENGINE AND HAVE DETERMINED IT TO BE SAFE FOR THE INTENDED FLIGHT FROM S82 TO RUT VAW THE SPECIAL FLIGHT PERMIT DATED 03/06/2013. *WALTER RICE*  
 (3) INSPECTED THIS ENGINE AND HAVE DETERMINED IT TO BE SAFE FOR THE INTENDED FLIGHT FROM S82 TO RUT VAW THE SPECIAL FLIGHT PERMIT DATED 03/06/2013. *WALTER RICE*

**Maintenance Release**  
 The aircraft and/or component(s) on N168DC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. *Partinent details of the repair are on file at this repair shop under Work Order No. 0355-12-2012. Dated 3/6/2013*  
 SIGNED: *[Signature]*  
 DATE: 3/6/2013  
 Jamie Jukkenbrandt, A&P 3039160  
 Work Order: 0355-12-2012  
 Printed by Ebis 3 (dalcamedia.com)

3/18/13 N168DC MOD# IO-240-B SER# 806379 Tach 422.2 Hobbs 491.5  
 Comp Test 1. 73 2. 72 3. 74 4. 73

1. Inspect spark plugs, replace spark plugs gaskets.  
 2. Reposition vernier safety wire to oil filter base  
 3. Changed oil and filter added 6 qts. Exxon Elite 20w50 leak checked good  
 4. Double safety wire oil sump drain

*[Signature]*  
**SDair Service Corp.**  
 Rutland State Airport, North Clarendon VT 05701  
 802-775-0205

*Timed magnets*

ENGINE MODEL IO-240-B388 Hiltl Aviation  
 ENGINE SN 806379 22 Jetway Drive  
 REG NO N168DC Albany, NY 12211  
 WORK ORDER 0480-07-2013 Phone 518-618-0750

DATE: 7/25/2013  
 A/C TSN: 433.7  
 ENG TT: 433.7  
 TSMOH: 433.7  
 TACH: 433.7

**Engine Entries**  
 1 TIMED MAGNETS TO ENGINE AS REQUIRED ON THE ENGINE PLACARD VAW TCM OVERHAUL MANUAL.

**Maintenance Release**  
 The aircraft and/or component(s) on N168DC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. *Partinent details of the repair are on file at this repair shop under Work Order No. 0480-07-2013. Dated 7/25/2013.*  
 SIGNED: *[Signature]*  
 DATE: 7/25/2013  
 DAVID BERTHOFF, A&P 2733595  
 Work Order: 0480-07-2013  
 Printed by Ebis 3 (dalcamedia.com)

Date	Tach hrs	Hobbs	by
08/23/13	454.5	527.5	Exxon Elite 20w50 32.3 hrs
10/04/13	467.4	543.0	Exxon Elite 20w50 12.9 hrs
			6 qts MS35769-11 double safite
			7 qts Champion CH48108-1 16-18 ft-lb, DC4
			MSS5769-11 double safite

by Richard T Corvetti  
*[Signature]*

TOTAL THIS PAGE			
TOTAL FROM PREVIOUS SUMMARY			
TOTAL SINCE MFG.			

**COMPLETE**  
 REPAIRS, ADJUSTMENTS, MODIFICATIONS  
 ENTRIES, DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

ENGINE MODEL IO240B  
 ENGINE SN 806379  
 REG NO N168DC  
 WORK ORDER  
 3584-05-2014

North American Flight Services  
 Repair Station No. N0MR725J  
 405 Greenfield Avenue  
 Ballston Spa, NY 12020  
 Phone 518-885-5470

DATE: 08 May, 2014  
 SIGNED: *[Signature]*  
 Brian Strange  
 Certified Repair Station No. N0MR725J  
 Work Order: 3584-05-2014  
 Printed by Ebis 3 (dalcamedia.com)

**Engine Entries**  
 ACCOMPLISHED ENGINE ANNUAL COMPRESSIONS ARE CYL#1 79/80, CYL#2 79/80, CYL#3 79/80, CYL#4 80/80. CLEANED AND GAPPED PLUGS. OIL AND FILTER CHANGED 2 HRS AGO. ENGINE OPS CHECKS AND LEAK CHECKS GOOD

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE

ENGINE MODEL IO240B38  
 ENGINE SN 806379  
 REG NO N168DC  
 WORK ORDER  
 3681-08-2014

North American Flight Services  
 Repair Station No. N0MR725J  
 405 Greenfield Avenue  
 Ballston Spa, NY 12020  
 Phone 518-885-5470

DATE: 21 August, 2014  
 SIGNED: *[Signature]*  
 Brian Strange  
 Certified Repair Station No. N0MR725J  
 Work Order: 3681-08-2014  
 Printed by Ebis 3 (dalcamedia.com)

**Engine Entries**  
 INSTALLED NEW OIL CAP GASKET PIN 642892. VAW CONTINENTAL MOTORS IO240-B38 MM.

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and/or inspected in accordance with current regulations of the Federal Aviation Administration and the aircraft engine/propeller/appliance manufacturer's maintenance manual instructions and procedures. This aircraft is approved for return to service with respect to the above work performed. Further details are on file at this repair station under the work order number *[initials]* on this log entry.

DATE: 21 August, 2014  
 SIGNED: *[Signature]*  
 Brian Strange  
 Certified Repair Station No. N0MR725J  
 Work Order: 3681-08-2014  
 Printed by Ebis 3 (dalcamedia.com)

08-22-2014 Tach 485.6 HOBBS  
 Exxon Elite 20w50 6 qts, CH48108-01, MSS35769-11, Compound 4

09-26-2014 Tach 498.0 HOBBS 578.6  
 Exxon Elite 20w50 7 qts, CH48108-01, MSS35769-11, Compound 4  
 Champion CH48108-1 16-18 ft-lb, DC4, double safety wire

by RT Corvetti owner  
*[Signature]*

ENGINE MODEL IO240B38  
 ENGINE SN 806379  
 REG NO N168DC  
 WORK ORDER  
 3912-04-2015

North American Flight Services  
 Repair Station No. N0MR725J  
 405 Greenfield Avenue  
 Ballston Spa, NY 12020  
 Phone 518-885-5470

DATE: 01 June, 2015  
 SIGNED: *[Signature]*  
 Brian Strange  
 Certified Repair Station No. N0MR725J  
 Work Order: 3912-04-2015  
 Printed by Ebis 3 (dalcamedia.com)

**Engine Entries**  
 ACCOMPLISHED ENGINE ANNUAL. COMPRESSIONS ARE CYL#1 72/80, CYL#2 73/80, CYL#3 73/80, CYL#4 71/80. CLEANED AND GAPPED PLUGS. OIL AND FILTER CHANGED BY OWNER. 8 HRS AGO. CUT FILTER OPEN AND NO DEBRIS NOTED. ENGINE OPS CHECKS AND LEAK CHECKS GOOD. ACCOMPLISHED AD SEARCH THRU 3/31/15. CUT OPEN AND INSPECTED FILTER REMOVED AT THE OWNERS OIL CHANGE. NO DEFECTS NOTED.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.



# ENGINE SERVICE AND

# MAINTENANCE RECORD

DATE 28 July 2015  
 ACFTSN 594.4  
 ENG TT 526.4  
 TSMOH  
 HOBBS 594.4

15.  
 WIRING FOR COMPLETE

ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

North American Flight Services  
 Repair Station No. NOMR725J  
 405 Greenleaf Avenue  
 Ballston Spa, NY 12020  
 Phone: 518-885-5470

DATE 07 Aug 2017  
 ACFTSN 594.4  
 ENG TT 512.6  
 TSMOH  
 TACH 512.6

ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

DATE 03 August 2018  
 ACFTSN 605.5  
 ENG TT 605.5  
 TSMOH  
 TACH 605.5

Engine Entries  
 ACCOMPLISHED ENGINE ANNUAL INSPECTION AND GAPPED PLUGS. COMPRESSIONS ARE OIL AND FILTER JUST DONE. 1 HRS AGO CLEANED AND GAPPED ENGINE OPS CHECK AND LEAK CHECK GOOD. CYL#1 73/80, CYL#2 71/80, CYL#3 71/80, CYL#4 71/80. ENGINE OPS CHECK AND LEAK CHECK GOOD. ACCOMPLISHED AD SEARCH THRU 715/2017

Engine Entries  
 ACCOMPLISHED ENGINE ANNUAL INSPECTION. SEE ENTRY BELOW FOR OIL CHANGE. CLEANED AND GAPPED PLUGS. COMPRESSIONS ARE CYL #1 73/80, CYL#2 AFTER CYLINDER REPLACEMENT IS 73/80, CYL#3 74/80, CYL#4 72/80. ENGINE OPS AND LEAK CHECK GOOD.

Engine Entries  
 ACCOMPLISHED AD SEARCH THRU 715/2017

Engine Entries  
 PERFORMED TWO INITIAL ENGINE RUNS AFTER CYLINDER #2 REPLACEMENT IAW CMI STANDARD PRACTICES MM-M.O. PARA 7-2.3.3 OPS CHECK GOOD. LEAK CHECK GOOD. PROVIDED AIRCRAFT OWNER WITH "FLIGHT CHECK AND BREAK-IN PROCEDURES" OUTLINED IN CMI MM-M.O. PARA 7-2.4.1, 7-2.4.2

Engine Entries  
 PERFORMED TWO INITIAL ENGINE RUNS AFTER CYLINDER #2 REPLACEMENT IAW CMI STANDARD PRACTICES MM-M.O. PARA 7-2.3.3 OPS CHECK GOOD. LEAK CHECK GOOD. PROVIDED AIRCRAFT OWNER WITH "FLIGHT CHECK AND BREAK-IN PROCEDURES" OUTLINED IN CMI MM-M.O. PARA 7-2.4.1, 7-2.4.2

Engine Entries  
 PERFORMED TWO INITIAL ENGINE RUNS AFTER CYLINDER #2 REPLACEMENT IAW CMI STANDARD PRACTICES MM-M.O. PARA 7-2.3.3 OPS CHECK GOOD. LEAK CHECK GOOD. PROVIDED AIRCRAFT OWNER WITH "FLIGHT CHECK AND BREAK-IN PROCEDURES" OUTLINED IN CMI MM-M.O. PARA 7-2.4.1, 7-2.4.2

Engine Entries  
 PERFORMED TWO INITIAL ENGINE RUNS AFTER CYLINDER #2 REPLACEMENT IAW CMI STANDARD PRACTICES MM-M.O. PARA 7-2.3.3 OPS CHECK GOOD. LEAK CHECK GOOD. PROVIDED AIRCRAFT OWNER WITH "FLIGHT CHECK AND BREAK-IN PROCEDURES" OUTLINED IN CMI MM-M.O. PARA 7-2.4.1, 7-2.4.2

ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
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 ENGINE S/N: 806379  
 REG. NO. N186DC  
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ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

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 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
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 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
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ENGINE MODEL  
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 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

ENGINE MODEL  
 ICAO: B37  
 ENGINE S/N: 806379  
 REG. NO. N186DC  
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 ENGINE S/N: 806379  
 REG. NO. N186DC  
 WORK ORDER  
 4371-05-2018

TOTAL THIS PAGE	
TOTAL FROM PREVIOUS SUMMARY	
TOTAL SINCE MFG.	

10/12/16  
 572.5  
 CH48108-1 16-18 ft-lb, DC4, double safety wire  
 664.2  
 by owner Richard T. Corvetti  
 RT Corvetti

09/02/16  
 558.0  
 Exxon Elite 20w50 6 qts only  
 648.5  
 Exxon Elite 20w50 7 qts; CH48108-01, MS35769-11, Compound 4; Champion  
 Purchased certified Yuasa Y50N18L-A-CX & Starter Vibrater LC-R121R3P from Diamond; installed per manufacturer's instructions

07/21/16  
 558.0  
 Exxon Elite 20w50 6 qts only  
 648.5

09/02/16  
 558.0  
 Exxon Elite 20w50 6 qts only  
 648.5

09/02/16  
 558.0  
 Exxon Elite 20w50 6 qts only  
 648.5

09/02/16  
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 Exxon Elite 20w50 6 qts only  
 648.5

09/02/16  
 558.0  
 Exxon Elite 20w50 6 qts only  
 648.5



DATE: 02 August 2019  
 ENGINE S/N: 836376  
 REG NO: N168DC  
 TACH: 0145

# SERVICE AND MAINTENANCE RECORD

# SERVICE AND MAINTENANCE RECORD

DATE: 25 September, 2020  
 AC/TSN: 8233  
 ENG/TT: 8233  
 TACH: 8233

ENGINE MODEL: K24082B  
 ENGINE S/N: 836376  
 REG NO: N168DC  
 WORK ORDER: 5794-09-2020

DATE: 02 August 2019  
 ENGINE S/N: 836376  
 REG NO: N168DC  
 TACH: 0145

ENGINE MODEL: K24082B  
 ENGINE S/N: 836376  
 REG NO: N168DC

DATE: 25 September, 2020  
 AC/TSN: 8233  
 ENG/TT: 8233  
 TACH: 8233

Engine Entries  
 ACCOMPLISHED ENGINE ANNUAL INSPECTION. COMPRESSIONS ARE #1:70/80 #2:70/80 #3:72/81 #4:70/80  
 OIL AND FILTER RECENTLY CHANGED. NOT DUE AT THIS TIME. CLEANED, GAPPED AND INSPECTED PLUGS AND LEAK CHECKS GOOD  
 INSPECTED PLUGS SEARCH THRU 8/1/2019  
 ACCOMPLISHED AD SEARCH THRU 8/1/2019  
 I CERTIFY THIS ENGINE HAS BEEN INSPECTED FOR RETURN TO SERVICE  
 IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE  
 SIGNED: *Bray*  
 Brian Simpson  
 Certified Repair Station No. N0M/R725J  
 Work Order: 5585-07-2019  
 Printed by EBIS 3 (dalcommedia.com)

TALLATIONS, INSPECTIONS, AND AS MANY LINES AS REQUIRED FOR COMPLETE

Engine Entries  
 PERFORMED ENGINE ANNUAL INSPECTION LAW DIAMOND DA20 MM ANNUAL INSPECTION  
 CHECKLIST DRAINED ENGINE OIL. REMOVED FILTER AND CUT OPEN. NO UNUSUAL DEBRIS NOTED. REPLACED FILTER WITH CUSTOMER SUPPLIED CH48108-1. FILL ENGINE WITH 8 QUARTS AEROSHELL 15W-50. SERVICE AND INSPECTED SPARK PLUGS. COMPRESSIONS ARE: 1-70/80 2-71/80 3-71/80 4-72/80. OPS CHECK AND LEAK CHECK OK  
 ACCOMPLISHED AD SEARCH THROUGH 09/24/2020  
 REPLACED OIL SUMP DRAIN PLUG W/ NEW DRAIN PLUG P/N 836376  
 I CERTIFY THIS ENGINE HAS BEEN INSPECTED FOR RETURN TO SERVICE  
 IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE  
 DATE: 25 September, 2020 SIGNED: *Samuel Barth*  
 Samuel Barth  
 Printed by EBIS 3 (dalcommedia.com)

Aviation Engine  
 AIRFRAME: 66 TYPE M AVIATION OIL 20W-50 7 QTS;  
 CH48108-01, MS35769-11, Compound 4;  
 CH48108-1, 16-18 ft-lb, DC4  
 Double safety wire drain plug;  
 cut open filter, inspection clean  
 by owner Richard T. Corvetti

DATE: 09/18/19  
 TACH HRS: 621.0

DATE: 24 September, 2020  
 AC/TSN: 8233  
 ENG/TT: 8233  
 TACH: 8233

North American Flight Services  
 Repair Station No. N0M/R725J  
 415 Greenfield Avenue  
 Boston, MA 02126  
 Phone: 515-855-5170

Engine Entries  
 PERFORMED ENGINE ANNUAL INSPECTION LAW DIAMOND DA20 MM ANNUAL INSPECTION  
 CHECKLIST DRAINED ENGINE OIL. REMOVED FILTER AND CUT OPEN. NO UNUSUAL DEBRIS NOTED. REPLACED FILTER WITH CUSTOMER SUPPLIED CH48108-1. FILL ENGINE WITH 6 QUARTS AEROSHELL 15W-50. SERVICE AND INSPECTED SPARK PLUGS. COMPRESSIONS ARE: 1-72/80 2-71/80 3-72/80 4-74/80. OPS CHECK AND LEAK CHECK OK  
 ACCOMPLISHED AD SEARCH THROUGH 09/24/2020  
 REPLACED OIL SUMP DRAIN PLUG W/ NEW DRAIN PLUG P/N 836376  
 I CERTIFY THIS ENGINE HAS BEEN INSPECTED FOR RETURN TO SERVICE  
 IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE  
 DATE: 24 September, 2020 SIGNED: *Samuel Barth*  
 Samuel Barth  
 Printed by EBIS 3 (dalcommedia.com)

TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

CARRIED FORWARD

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.



































