

MARCH 14 2004 warranty out

# AIRCRAFT TECHNICAL LOGS

## Section 1. AIRFRAME



# CALIBRATION CARD ALTIMETER

P/N: 5934PD-3

C/N: A.130

S/N: 462860

Standard Alt (Ft)	Alt Reading (Ft) @ Room Temp	Standard Alt (Ft)	Alt Reading (Ft) @ Room Temp
-1,000	-10	14,000	-25
0	10	16,000	-20
500	10	18,000	-10
1,000	15	20,000	5
1,500	20	22,000	
2,000	25	25,000	
3,000	25	30,000	
4,000	20	35,000	
6,000	10	40,000	
8,000	-5	45,000	
10,000	-20	50,000	
12,000	-25		

Date: 17-Jan-12

Tested by: SM 4

Inspected by: DG

FORM QA-A5 (B)

UNITED INSTRUMENTS, INC.

## AIRCRAFT

- |   |         |
|---|---------|
| 1. Nationality and Registration:          | N318DS  |
| 2. Manufacturer's designation:            | DA 40   |
| 3. Manufacturer's Serial Number:          | 40.1137 |
| 4. Type Approval or Specification Number: | A47CE   |
| 5. Date of Manufacture:                   | 2012    |
| 6. Aircraft Inspections cycle:            |         |



## AIR TIME AND

[illegible]

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

Registration:	N318DS
AC Serial Number:	40.1137
Engine Serial Number:	L-35603-51E
Prop Serial Number:	NS695B
Airframe Total Time:	5.2 hrs

- Total Time Airframe Brought forward from Flight Test Journey Log (DAI - Form Q-157) : 5.2 hrs

- Compass Swing Performed:

○ Date: Feb 09, 2012  
○ Next Due: Feb , 2013

FOR	N	30	60	E	120	150
STEER	002	031	060	090	121	151
FOR	S	210	240	W	300	330
STEER	180	210	240	270	301	333

- Static Pressure system and Primary Altimeter (G1000) have been inspected and tested in accordance with CAR Standard 571, Appendix B and 14 CFR 91.411:

- Test Date: Feb 04, 2012
- Next Due: Feb , 2014

- Stand By Altimeter:
  - Factory Test Date: Jan 17, 2012
  - Next Due: Jan , 2014

- ATC Transponder & Altitude Reporting System(s) have been tested in Accordance with CAR Standard 571, Appendix F and 14 CFR 91.217: & 91.413:

- Test Date: Feb 04, 2012
- Next Due: Feb , 2014
- Programmed Reg: N318DS
- Hex Code: N/A

- The ELT was tested and inspected in Accordance with CAR Standard 571, Appendix G and 14 CFR 91.207(d) :

- Manufacturers Cert. date: 47/11
- Installation Inspected: Feb 13, 2012
- Battery due: March, 2018
- Next ELT inspection due: Feb, 2013
- ELT remote switch cell:
  - Due Date: Feb, 2017
- ELT Programmed:
  - REG: N318DS
  - HEX: N/A
  - Beacon ID: ADC6499074CCB41

- Emergency Battery Pack : Replacement Due Date : Jan ,2014

- G1000 Installation:
  - Software Version :010-0321-22
  - Obstacle expiry date: April 05,2012
  - Aviation expiry date: March 08,2012
  - FliteCharts expiry date: March 08,2012
  - SafeTaxi expiry date: April 05 2012
  - GTX 33 Software Version: 6.00

DA  
Q 20

Inspector

FEB 13 2012

date

(continued next page)

CARRIED FORWARD



# ENGINEERING RECORD

1

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE  
NUMBER



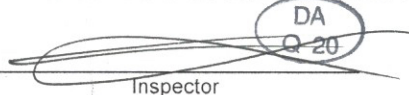
DIAMOND AIRCRAFT INDUSTRIES INC.  
D.O.T. APPROVED MANUFACTURER #161-93

Registration: N318DS  
AC Serial Number: 40.1137  
Engine Serial Number: L-35603-51E  
Prop Serial Number: NS695B  
Airframe Total Time: 5.2 hrs

- Following limitations as per DA 40 AMM Chapter 4 (subject to change with revision):

Component	Hours	Years	Next Due:
Essential Bus	1000	-N/A-	1000 hrs
Pitot-Static System	1000	2	1000 or Feb 2014
Bonding System	1000	-N/A-	1000 hrs
Emergency Battery	-N/A-	2	Jan 2014
Rudder Cables	3000	5	3000 hrs or Feb 2017
Fuel hoses (aft of firewall)	2000	12	2000 hrs or Feb 2024
Fuel hoses (fwd of firewall)	2000	12	2000 hrs or Feb 2024
Oil hoses	2000	12	2000 hrs or Feb 2024

- The following STC's are incorporated:
  - SA02476CH-D - Hartzell: HC-C2YR-1N/N7605 installation
  - SA01254WI Amend. 1- G1000 : Garmin installation
  - SA01389WI - GFC 700: Garmin installation
  - SA01444WI-D - G1000 / GFC 700: Garmin upgrade and WAAS
  - SA01480WI-D - SVT: Garmin SVT upgrade
  - SA03281AT - POWER FLOW EXHAUST: installation
  - SA01918LA - AMSAFE RESTRAINTS: installation
- THIS AIRCRAFT WAS INSPECTED FOR CONFORMITY TO APPLICABLE COMPANY RELEASED DOCUMENTS (DRAWINGS, SPECIFICATIONS, CONCESSIONS).
- I HEREBY CERTIFY THAT THIS AIRCRAFT CONFORMS TO FAA TYPE CERTIFICATE : A47CE rev 9 , AND IS IN A FIT AND SAFE STATE FOR FLIGHT
- Bi-weekly AWD check carried out to current revision 2012-04, all applicable AD's complied with
- The work described above was carried out IAW the applicable Standard of Airworthiness.

Inspector 

FEB 13 2012

date

(Intentionally left blank below this point)



U.S. Standard Airworthiness Certificate, issued:

(Date) FEB 15 2012, has been installed in the  
aircraft on behalf of NE-MIDO-46 on:

(Date) FEB 15 2012

(Print) R. Salton (Signature) 





## ENGINEERING RECORD

2

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

SIGNATURE

LICENCE  
NUMBER

MAKE: Diamond  
MODEL: DA 40  
S/N: 40.1137  
REG. NO: 318DS  
WORK ORDER:  
4817-03-2012



Premier Aircraft Service, Inc.

Repair Station No. 9PRR402B  
5540 NW 23rd Avenue Hanger 14  
Fort Lauderdale, FL 33309  
Phone: (954) 334-2393

DATE: 4/17/2012  
A/C TSN: 32.7  
TACH: 32.7

## Airframe Entries

(2) INSTALLED PULSE LANDING & TAXI LIGHT CONTROLLER PER STC# SA01861SE BY SEATON ENGINEERING CORP IAW SEATON ENGINEERING FAA APPROVED MASTER DRAWING, DOC 9150-001 REVISION G DATED JUNE 22, 2009. SEE FORM 337 FOR DETAILS. UPDATED EQUIPMENT LIST & POH. NO SIGNIFICANT CHANGE IN WEIGHT & BALANCE. OPS CHECK NORMAL.... (4) INSTALLED B&C SPECIALTY PRODUCTS BC410 STAND-BY ALTERNATOR SYSTEM IAW DC AEROSPACE DRAWING "BC410 28v ALT INSTL" DATED 6/15/2009. SEE FORM 337 FOR DETAILS. AIRCRAFT EQUIPMENT LIST AND WEIGHT AND BALANCE WERE REVISED. SYSTEM AND OPERATIONAL CHECKS COMPLETED.... (5) INSTALLED SEAMECH INTERNATIONAL, R-134A COOLANT, AIR CONDITIONER SYSTEM IN ACCORDANCE WITH STC SA03674AT HELD BY PREMIER AIRCRAFT SERVICE, INC., FT. LAUDERDALE, FL. REVISED WEIGHT AND BALANCE, EQUIPMENT LIST, AND INSERTED POH SUPPLEMENT. SEE FORM 337 FOR DETAILS.... (7) REPLACED FUSELAGE STRIPES AND REGISTRATION NUMBER WITH FACTORY DECAL KIT.

MAINTENANCE RELEASE: IN REFERENCE TO THE WORK PERFORMED, THIS AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, AND / OR APPLIANCE WAS REPAIRED AND INSPECTED I.A.W. CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. ALL WORK WAS PERFORMED IAW CURRENT APPLICABLE AIRCRAFT, ENGINE, OR APPLIANCE MAINTENANCE MANUALS AND INSTRUCTIONS. PERTINENT DETAILS ARE ON FILE AT THIS REPAIR STATION OFFICE.

DATE: 4/17/2012

SIGNED:

Work Order: 4817-03-2012

Adrian Arias  
Certified Repair Station No. 9PRR402B

Printed by EBis 3 (datcomedia.com)

1 of 1

## FAA - PMA

This tag certifies that Sky-Tec Model No. 149-NL/ec  
Serial No. FNE-481142 was manufactured new on 09 Dec 2011  
by Sky-Tec under the authority of FAA PMA No. PQ0852SW Supplement  
No. 7 per CFR14 Part 21 in accordance with Sky-Tec's  
FAA-Approved Fabrication Inspection System (CFR14 Part 21 §21.303) and  
conforms to the relevant FAA-approved drawings. This part has been  
determined to be airworthy.

For installation eligibility see [www.skytecair.com/eligibility.htm](http://www.skytecair.com/eligibility.htm)

Starter Installed on N 318DS by ADRIAN ARIAS  
(Aircraft) (Mechanic)

CRS 9PRR40B

Form CC1108-1

DATE 4-13-2012 TACH                      HOUR METER 0044.7MFG/MODEL Diamond DA40 SERIAL 40.1137

I certify that this aircraft was weighed in accordance with AC43.13-1B, change 1  
in level flight attitude inside a closed hangar. Weighed with full oil. Weighed  
with fuel tanks full

Scale readings were:

LH MAIN 954.0 RH MAIN 956.0 NOSE/TAIL 278.0Scales Model 3-0101-299C, Serial 1239 Calibrated 5-9-2011
 AIRFRAME NO: 3485687

AIRCRAFT WEIGHING CORP.  
954-928-1619

1020 N.W. 62nd St., Hgr #6  
Ft. Lauderdale, FL 33309



# ENGINEERING RECORD

3

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

SIGNATURE

LICENCE  
NUMBER

April 19, 2012 S/N 40.1137 N 318 DS DA40

## REUPHOLSTERED AIRCRAFT INTERIORS:

1. New carpet installed throughout aircraft from Aircraft Interior Products, Flightline Winesap. Material meets FAR 23.853 (a) Horizontal.
2. All seats reupholstered with leather from Green Hides, Aeronautica leather # 11025, color Oyster DL # 5705. Material meets FAR 25.853 (a).
3. Foam used 1/2 inch from Skandia, Dax Graphite/Poly Foam w/Scrim 20 ILD. Material meets 25.853 (a).
4. Foam used Confor CF 45 Blue 1/2 inch. Material meets FAR 25.853 (a).
5. Foam used Dax Graphite Poly. Material meets 25.853 (a)
6. AL 73 Foam Material 1/4 inch used. Material meets FAR 25.853 (a)
7. All material were installed by:

F.L.EX. Aircraft Interiors, Inc.  
1050 N.W. 52<sup>nd</sup> St. Fort Lauderdale, FL 33309

Frank A. Pijuan  
IA #3515712

IA 3515712



# AIR TIME AND

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

*May 12 2012 N318DS*

*Operator removed LH main wheel  
and replaced defective Tire Tube  
PN 302-246-401 with same.  
Inflated to appropriate pressure  
and Reinstalled wheel to Air-  
craft. Performed Roll checks +  
Returned to Service. *5/12/12**

**302-246-401**

Tube, MLG, G15-6.00X6-TR20

LOT: RC1205020

SN:

QTY: 1

EXP

UM: EA

**Diamond**  
AIRCRAFT



## CERTIFICATE OF CONFORMANCE

Code material: 186518	Tube size: G15/6.00-6 TR20	Product Identification 302-246-401
--------------------------	----------------------------------	---------------------------------------

We hereby certify that the parts supplied and produced on this date are manufactured according to the physical properties and balancing specifications outlined in the Aerospace Standard Specification-SAE AS50141A. Substantiating documents regarding the subjects parts are on file for inspection upon request.

**1357  
1654**

**C**

**RF6005  
A4**

**03/08/12  
06:12**

CARRIED FORWARD



# ENGINEERING RECORD

4

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

SIGNATURE

LICENCE  
NUMBER

March 12 2013

SouthTecAviation  
Mobile (334) 728-6806

Date: Mar. 12. 2013 DA40-180 S/N 40.1137 Reg: N692CJ  
Tach: 248.3hrs. TTE: 248.3 hrs.

Annual/200 hr. Inspection completed this date in accordance with Diamond Aircraft DA40-180 AMM rev.6 The ELT was tested I/A/W Appendix G of the airworthiness Manual and FAR. 91.207(d). ELT battery replacement date Mar. 2018.

- Replaced RH and LH MLG tires. Installed 15:00X6.00X6 tires.
- Replaced Break Lining RH and LH MLG wheels. Replaced with Rapco break lining P/N RA066-14100 Linings.

AD's checked thru 13-12-2013

I certify that this engine has been inspected I/A/W a 100hr/ Annual inspection and found to be in an airworthy condition.

Glenn M. Lawler

AP 2151929 IA

N Number  
N692CJ

Date TACH/HOBBS  
7/1/2013 336.8

Log Entry

Swapped GIA #1 and #2 for testing purposes. Refer to WO#G02647 on file at Dillon's Aviation, Inc.

Ladd J Maxson, Jr. For Dillon's Aviation, Inc.  
AP3064381IA

N Number	Date	TACH/HOBBS	AFTT
N692CJ	3/14/2014	436.0	436.0

AF Entry

Performed annual inspection on this aircraft in accordance with FAR 43 appendix D. Checked all controls for proper rigging and lubricated. Checked all cables for proper tension, checked all structural points, inspected all hoses, lines and wiring. Repacked all wheel bearings, checked tires, wheels and brakes for condition. Rotated LH and RH main tires on rims. Replaced o-ring PN MS28775-224 in LH brake caliper. Performed wheel alignment 0 degrees toe in + 1 degrees camber. Inspected ELT in accordance with FAR 91.207(d), next due 03/2014, battery replacement date 03/2018. Replaced emergency battery with new PN D60-2560-91-00, next due 03/2016. Replaced engine air filter with new PN FR-08504. Replaced a/c compressor pivot bolt PN AN7-46A. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked applicable AD's for compliance to date. All work performed in reference to Diamond service manual and standard practice as listed in FAR part 43 to return this aircraft to service in airworthy condition. Refer to WO#G02795 on file at Dillon's Aviation, Inc. C/W Standby alt inspection per ICA BC410 Rev. A.

C/W Cabin cool inspection per ICA ASI-772216A, dye penetrant compressor tab, no defects noted. C/W Power Flow exhaust system inspection per ICA, replaced exhaust tail pipe packing with new PN PFS-8016.

C/W Garmin G1000 per ICA, replaced 5 each 3.2 AMP fuses with new PN 031303.2HXP.

Ladd J Maxson, Jr. For Dillon's Aviation, Inc.  
AP3064381IA



# AIR TIME AND

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

N Number	Date	TACH/HOBBS	AFTT
N692CJ	4/24/2015	476.7	476.7

## AF Entry

Performed annual inspection on this aircraft in accordance with FAR 43 appendix D. Checked all controls for proper rigging and lubricated. Checked all cables for proper tension, checked all structural points, inspected all hoses, lines and wiring. Repacked all wheel bearings, checked tires, wheels and brakes for condition. Replaced LH and RH main tires with new 15X6.00-6ply Goodyear tires PN 156E61-3 (LH SN 41962141 and RH SN 41952425). Inspected ELT in accordance with FAR 91.207(d), next due 04/2016, battery replacement date 03/2018. Performed Power Flow exhaust system inspection per ICA. Replaced LH LED nav light bulb with new LED7512-24V. Replaced aircraft battery with new Concorde battery PN RG24-15M SN 40689521. Removed propeller governor and sent out for sublet repair and reinstalled, see H&H Propeller yellow tag and WO#20822. Performed G1000 software update to version 0321.23 with standard GFC700 and SVT IAW STC SA01444WI-D-1 configuration and per SI-40-139, G1000 field upgrade installation instructions 190-00544-03 Rev. 10, system maintenance manual for G1000 PN 190-00545-01 Rev G, and master drawing list PN 005-00400-01 Rev 10. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked applicable AD's for compliance to date. All work performed in reference to Diamond service manual and standard practice as listed in FAR part 43 to return this aircraft to service in airworthy condition. Refer to WO#G03066 on file at Dillon's Aviation, Inc.

AD 2014-13-08 Aft spar reinforcement not due until AFTT 2000.0 or 06/2023 whichever occurs first.

*Ladd J Maxson Jr.*

Ladd J Maxson, Jr. For Dillon's Aviation, Inc.  
AP30643811A

Date Dec 22-2015

I certify that the altimeter, altitude reporting and static system test and inspection required by FAR 91.411 has been performed. The LH ☒ RH

altimeter, Model/PN GOC 74A

S/N 20611944 certified to FAR Part 43,

Appx. E. by Sparkchasers CRS# XSPR699K

on W.O.# 102816 was tested to 20,000 ft.

on date Dec 22-2015. The altitude reporting

system was tested to 20,000 ft. Details

On file under W.O.# 102816 dated Dec 18-2015

Signed W. Bell for

Sparkchasers Aircraft Services, Inc.  
Repair Station No. XSPR699K

CARRIED FORWARD



## ENGINEERING RECORD

5

## INSPECTION, REPAIRS &amp; REPLACEMENT

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

SIGNATURE

LICENCE  
NUMBERDate Dec 22-2015

I certify that the altimeter, altitude reporting and static system test and inspection required by FAR 91.411 has been performed. The LH STBY altimeter, Model/PN Unired 5934PD-3 S/N 462860 certified to FAR Part 43, Appx. E. by Sparkchasers CRS# XSPR699K on W.O.# 102816 was tested to 20'000 ft. on date Dec 22-2015. The altitude reporting system was tested to 20'000 ft. Details On file under W.O.# 102816 dated Dec 22-15. Signed W.B. Bell for

Sparkchasers Aircraft Services, Inc.  
Repair Station No. XSPR699K

Date Dec 22-2015

I certify the below transponders(s) have been inspected and found to comply with the requirements of FAR Part 91.413 on Work Order No. 102816 dated Dec 18-2015  
#1 Transponder: Make GARMIN  
Model GTX 33 S/N 89122475  
#2 Transponder: Make —  
Model — S/N —  
Signed W.B. Bell for

Sparkchasers Aircraft Services, Inc.  
FAA Repair Station No. XSPR699K



Sparkchasers Aircraft Services, Inc.  
FAA CRS# XSPR699K  
ALTIMETER CALIBRATION RECORD

Tested in compliance with Appendix E, Part 43, FAA Regulation

ALTITUDE	SCALE ERROR	FRICTION ERROR	Case Leak
-1000	+20		80 F/m
0	+5		
500	+5		
1000	+10	30	
1500	+15		
2000	+20	30	
3000	+20	30	
4000	+20		
5000	+15	35	
6000	+5		
8000	-10		
10000	-25	40	
12000	-25		
14000	-35		
15000	-35	40	
16000	-35		
18000	-30		
20000	-10	40	
22000			
25000			
30000			
35000			
40000			
45000			
50000			

HYSTERESIS TEST

ALTITUDE	READ	DOWN READ
10K	50%	+5
8K	40%	+10

AFTER EFFECT:

BARO SCALE ERROR

28.10	8
28.50	
29.00	0
29.50	2
29.92	13
30.50	5
30.90	16
30.99	3
	1

ALTIMETER SERIAL NUMBER  
593490-3 462860

DATE TESTED  
Dec 22, 2015

MECHANIC  
WOB

INSPECTOR  
WOB

TESTED WITH SETRA MODEL 370  
DIGITAL PRESSURE GAGE

Johnston County Airport (KJNX)  
3223-C Swift Creek Road • Smithfield, NC 27577  
FAA CRS# XSPR699K  
Phone: (919) 934-1654  
Email: sparkchasers@mindspring.com

Sparkchasers Aircraft Services, Inc.  
FAA CRS# XSPR699K  
ALTIMETER CALIBRATION RECORD

Tested in compliance with Appendix E, Part 43, FAA Regulation

ALTITUDE	SCALE ERROR	FRICTION ERROR	Case Leak
-1000	-3		0 F/m
0	-4		
500	-4		
1000	-5	0	
1500	-4		
2000	-4	0	
3000	-4	0	
4000	-4		
5000	-4	0	
6000	-3		
8000	-4		
10000	-4	0	
12000	-4		
14000	-4		
15000	-4	0	
16000	-4		
18000	-4		
20000	-3	0	
22000			
25000			
30000			
35000			
40000			
45000			
50000			

HYSTERESIS TEST

ALTITUDE	READ	DOWN READ
10K	50%	-4
8K	40%	-3

AFTER EFFECT: 1 FT

BARO SCALE ERROR

28.10	5
28.50	5
29.00	5
29.50	5
29.92	-6
30.50	5
30.90	5
30.99	6

ALTIMETER SERIAL NUMBER  
60674A 20611944

DATE TESTED  
Dec 22, 2015

MECHANIC  
WOB

INSPECTOR  
WOB

TESTED WITH SETRA MODEL 370  
DIGITAL PRESSURE GAGE

Johnston County Airport (KJNX)  
3223-C Swift Creek Road • Smithfield, NC 27577  
FAA CRS# XSPR699K  
Phone: (919) 934-1654  
Email: sparkchasers@mindspring.com



ND

ENGINEERING RECORD

PAGES AND AS MANY LINES AS REQUIRED

## SERVICEABLE CONDITION

Part Name Unico STD Altimeter  
 Part No. 5934PD-3  
 Serial No. 462860 Act. No. N652CT  
 Remarks: TESTED FOR FAE 43 APPRE  
 Owner Scott Thompson  
 No. 102816 Date Dec 22. 2015  
 Cert. # 2437578

DATE

BROUGHT  
FORWARD

## SPARKCHASERS

aircraft services, inc.  
 Johnston County Airport (KJNX)  
 3223-C Swift Creek Road • Smithfield, NC 27577  
 FAA CRS# XSPR699K  
 Phone: (919) 934-1654  
 Email: sparkchasers@mindspring.com

## SERVICEABLE CONDITION

Part Name GDC 744  
 Part No. 011-00822-10  
 Serial No. 20611944 Act. No. N652CT  
 Remarks: TESTED FOR FAE 43 APPRE  
 Owner Scott Thompson  
 No. 102816 Date Dec 22. 2015  
 Cert. # 2437578

## SPARKCHASERS

aircraft services, inc.  
 Johnston County Airport (KJNX)  
 3223-C Swift Creek Road • Smithfield, NC 27577  
 FAA CRS# XSPR699K  
 Phone: (919) 934-1654  
 Email: sparkchasers@mindspring.com



## ENGINEERING RECORD

6

INSPECTION, REPAIRS &amp; REPLACEMENT

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

SIGNATURE

LICENCE  
NUMBER

N692CJ Tach 642.4

## AIRCRAFT MAINT. LOG ENTRY

Replaced GDC 74A pn 011-00822-10 sn 20611944 with Garmin overhauled exchange sn 20605031 due to loss of air data after startup. Replacement GDC 74A was returned to service by Garmin Dec 08 2015 under Garmin WO# 4058133. Loaded exchange with software v3.08 & configurations IAW G1000 / DA40 maintenance Manual 190-00545-00 rev G. Troubleshoot & repaired data path issue between GDC74A and GIA2. Details of work performed are documented on WO# 102819 and kept on file at Sparkchasers Aircraft Services CRS XSPR699K. The aircraft repairs and/or component installation described above have been performed or inspected in accordance with current Federal Aviation Regulations and found airworthy for return to service.

Signed

CRS# XSPR699K

Date Jan 7, 2016



1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>		3. Form Tracking Number: <b>SO # 4058133</b>	
4. Organization Name and Address: GARMIN International 1200 E 151st Olathe, KS 66062		Certificate No. G6XR582Y		5. Work Order/Contract/Invoice Number: <b>SO # 4058133</b>	
6. Item: 1.	7. Description: GDC74A HIRF	8. Part Number: 011-00882-10	9. Quantity: 1	10. Serial Number: 20605031	11. Status/Work: OVERHAULED
12. REMARKS: 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 passed the altitude test at 50,000 feet.*****  Operating software for this unit must be reloaded using the approved aircraft system software once the unit is installed 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/line maintenance manual.  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". The work that was performed on this unit was done to meet the requirements of the maintenance manual part number 190-00364-00 Rev- AL, Revision Date 5/22/2015. Reference: 010-N0336-10 is the Garmin stocking/shipping part number for the 011-00882-10 unit that was processed.					
All repaired or replaced GARMIN units have a 90-day warranty or the continuation of the original factory warranty from the original purchase date, whichever is longer.					
13a. Certifies the items identified above were manufactured in conformity to:  <input type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in block 12 <div style="text-align: right;">N / A</div>			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> 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 <div style="text-align: right;">N / A</div>		13c. Approval/Authorization No.: <div style="text-align: right;">N / A</div>		14b. Authorized Signature:  <div style="text-align: right;">Jeremy W. Little</div>	
13d. Name (Typed or Printed) <div style="text-align: right;">N / A</div>		13e. Date (dd/mm/yyyy) <div style="text-align: right;">N / A</div>		14c. Approval/Certificate No.: G6XR582Y  14d. Date (dd/mm/yyyy) 08 Dec 2015	
<b>User/Installer Responsibilities</b>					
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.					



# AIR TIME AND

N Number	Date	TACH/HOBBS	AFTT
N692CJ	5/5/2016	499.2	499.2

RECORD

ES AS REQUIRED FOR COM

**AF Entry**

Performed annual inspection on this aircraft in accordance with FAR 43 appendix D. Checked all controls for proper rigging and lubricated. Checked all cables for proper tension, checked all structural points, inspected all hoses, lines and wiring. Repacked all wheel bearings, checked tires, wheels and brakes for condition. Inspected ELT in accordance with FAR 91.207(d), next due 05/2017, battery replacement due date 03/2018. Replaced emergency battery with new PN D60-2560-91-00, next due 05/2018. Replaced 5 fuses PN 031303.2HXP for G1000 per Garmin ICA, next due 05/2018. Performed Power Flow exhaust inspection per ICA. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked applicable AD's for compliance to date. All work performed in reference to Diamond service manual and standard practice as listed in FAR part 43 to return this aircraft to service in airworthy condition. Refer to WO#G03331 on file at Dillon's Aviation, Inc.

ELT remote switch battery due replacement 02/2017.

Air bag EMU due 11/2021.

Air bag inflator bottles LH dated 11/11 due 11/21 and RH dated 01/12 due 01/22 per AmSafe SIL 25-031.

AD 93-05-06 ACS ignition switch due AFTT: 2000.0.

*Ernest D. Rawls*  
Ernest D. Rawls For Dillon's Aviation, Inc.  
AP238764345IA

N Number	Date	TACH/HOBBS	AFTT
N692CJ	5/25/2017	538.7	538.7

**AF Entry**

Performed annual inspection on this aircraft in accordance with FAR 43 appendix D. Checked all controls for proper rigging and lubricated. Checked all cables for proper tension, checked all structural points, inspected all hoses, lines and wiring. Repacked all wheel bearings, checked tires, wheels and brakes for condition. Replaced LH & RH brake pads with new PN 066-14100. Inspected ELT in accordance with FAR 91.207(d), next due 05/2018, battery replacement date 03/2018. Replaced ELT remote switch battery with new PN 28L battery dated 03/2024. Performed Power Flow exhaust inspection per ICA. Replaced muffler insert with new PN PFS-8016. Cabin fire extinguisher 6 year inspection performed by Fire Fighter Products, Inc. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked MFG SB's to date. Checked applicable AD's for compliance to date. All work performed in reference to Diamond service manual and standard practice as listed in FAR part 43 to return this aircraft to service in airworthy condition. Refer to WO#G03611 on file at Dillon's Aviation, Inc.

Emergency backup battery replacement due 05/2018.

Garmin lighting protection fuse replacement due 05/2018.

Air bag EMU due 11/2021.

Air bag inflator bottles LH dated 11/11 due 11/23 and RH dated 01/12 due 01/24 per AmSafe SB 507592-401-25-01.

AD 93-05-06 ACS ignition switch due AFTT: 2000.0.

*Ernest D. Rawls*  
Ernest D. Rawls For Dillon's Aviation, Inc.  
AP238764345IA

CARRIED FORWARD



# ENGINEERING RECORD

7

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

SIGNATURE

LICENCE  
NUMBER

I certified that the ATC Transponder test required by FAR 91.413 have been performed found to comply with FAR 43, appendix F.

# 1 Make Garmin Model GTX 33 S/N 89122475

# 2 Make \_\_\_\_\_ Model \_\_\_\_\_ S/N \_\_\_\_\_

Date 5-25-17 W.O.# 15354

Signed [Signature] for

Aero Avionics, Inc. Sanford, N.C. CRS # A8XR424J

Aircraft tested as required by FAR 91.411, I.A.W. FAR 43 appendix "E".

1. Static system: Per paragraph (a)

2. LH Altimeter: paragraph (b) to 20,000 ft. S/N 20605031

3. RH Altimeter: paragraph (b) to 20,000 ft. S/N 462830

4. Integrated mode "C" system per paragraph (c).

Performed items # 1, 2, 3, 4 W.O.# 15354

Signed [Signature] Date 5-25-17

Aero Avionics, Inc. Sanford, N.C. CRS # A8XR424J

N Number	Date	TACH/HOBBS	AFTT
N692CJ	5/22/2018	623.3	623.3

## AF Entry

Performed annual inspection on this aircraft in accordance with FAR 43 appendix D. Checked all controls for proper rigging and lubricated. Checked all cables for proper tension, checked all structural points, inspected all hoses, lines and wiring. Repacked all wheel bearings, checked tires, wheels and brakes for condition. Replaced ELT battery with new PN 452-6499, inspected ELT in accordance with FAR 91.207(d), 6 year required battery replacement date 05/2024. Replaced LH trailing nav light bulb PN A508-28. Replaced emergency back up battery with new PN D60-2560-91-00, next due replacement 05/2020. Complied with Power Flow Exhaust ICA, no defects found. Complied with Garmin G1000 ICA by replacement of 5 each fuses PN 031303.2HXP, next due 05/2020. Serviced air conditioning with R134A. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked applicable AD's for compliance to date. All work performed in reference to Diamond service manual and standard practice as listed in FAR part 43 to return this aircraft to service in airworthy condition. Refer to WO#G03846 on file at Dillon's Aviation, Inc. ELT remote switch battery due replacement 03/2024.

Air bag EMU due 11/2021.

Air bag inflator bottles LH dated 11/11 due 11/23 and RH dated 01/12 due 01/24 AmSafe SB 507592-401-25-01.

AD 93-05-06 ACS ignition switch due AFTT: 2000.0.

[Signature]  
Ernest D. Rawls For Dillon's Aviation, Inc.  
AP238764345IA