

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMB.
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	-	-	3302	2.	
/					Diamond Date: November 12, 2014 RO-14-013 S/N:40.662 Reg: N658DS TACH: 3302.2 hrs. The Following work has been carried out: Autopilot System has been De activated and rendered in operative by disengaging the 5 amp Circuit Breaker and Tie wrapping the same to render the system power in operative. The instrument Panel has been Placarded "Autopilot Inoperative" I.A.W. FAR 91.213(d) The maintenance described above has been performed in accordance with the applicable standards of airworthiness. DIAMOND AIRCRAFT INDUSTRIES AMO 161-93 Signature: <u>[Signature]</u> Lic or Stamp: <u>DA RO6</u>
DEC 15 2014	-	-	3302	2	Diamond Date: December 15, 2014 RO-14-013 S/N:40.662 Reg: N658DS TACH: 3302.2 hrs. The Following work has been carried out: Garmin G1000 Database update carried out Obstacle, Aviation, & Safe Taxi updated. Next updates due January 08, 2015 The maintenance described above has been performed in accordance with the applicable standards of airworthiness. DIAMOND AIRCRAFT INDUSTRIES AMO 161-93 Signature: <u>[Signature]</u> Lic or Stamp: <u>DA RO6</u>
			3302	2	



3316 Hangar Drive Lexington, KY 40510 859-255-1902

Airframe Log Book

Date: 10/13/2016
Reg No: N658DS
Tach: 3340.8
Prop TSN: 3340.8

Aircraft: DA-40
Hobbs: 4357.6
Prop TSOH: 753.8

Shop Order: M-16-6146
Serial No. 40.662
Eng TT: 1152.7

1. Replaced ELT battery with new P/N E-04.0 S/N 00039. Performed ELT test IAW 14 CFR 91.207. Ops normal. Next battery due 9/22/2021.
2. Cleaned, inspected, and re-packed all wheel bearings. No discrepancies noted.
3. Drained, removed, cleaned and inspected fuel filter bowl. No abnormal contamination found.
4. Serviced and top charged ships battery.
5. C/W MSB40-046/3 by inspection of NLG IAW SB instructions. No defects found. Next due at 3440.8 tach.
6. Replaced cracked transponder antenna with new P/N CI-105 S/N 77011. Performed transponder test. Ops normal.
7. Lubricated airframe IAW DA40 lubrication chart.
8. Installed new stick on type CO2 detector.
9. Provided updated AD compliance report. Copy on file.
10. I certify this airframe has been inspected IAW an annual inspection per 14 CFR part 43 appendix D and found to be in airworthy condition. Diamond DA40 AMM 05-28-50 100hr interval checklist used as a guide.

The aircraft, airframe, engine, propeller, or appliance identified was repaired and/or inspected in accordance with the current regulations of the Federal Aviation Administration and is approved for return to service for the work performed.

Date: 10/13/16

Signed

[Signature]

INSPECTION, REPAIRS & REPLACEMENT		SIGNATURE	LICENCE NUMBER
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.			
Reg No: N658DS Aircraft: Diamond Aircraft Serial No: 40.662			
Work Order: 11708 Shop Order: M-16-6146			
I HEREBY CERTIFY THAT THE ALTIMETER, ENCODER, AND STATIC SYSTEM TESTS REQUIRED BY FAR 91.411 HAVE BEEN PERFORMED AND MEET SPECIFICATIONS.			
ALTIMETER #1 TESTED TO 20,000 FEET			
ALTIMETER #2 TESTED TO 20,000 FEET			
ENCODER #1 TESTED TO 20,000 FEET			
SYSTEM TEST DATE: 12 October 2016			
I HEREBY CERTIFY THAT THE ATC TRANSPONDER TEST REQUIRED BY FAR 91.413 WAS PERFORMED THIS DATE AND FOUND TO COMPLY WITH FAR 43, APPENDIX F.			
MAKE: Garmin MODEL: GTX-33 SERIAL NO.: 89102482			
SYSTEM TEST DATE: 12 October 2016			
TESTED BY: <i>Steve Bely</i> # UTXR015L			
 Mustang Aviation Aircraft - Maintenance - Parts 4316 Hangar Dr Lexington, KY 40510 859-255-1902 FAA CRS # UTYR015L			

Paragon Aircraft Service, Inc.

19 Wright Way, Fairfield, NJ 07004

Phone: (973) 575-0364 Fax: (973) 575-0365

Authorized

Diamond

ALTIMETER SCALE CORRECTION CARD

REFERENCE ALTITUDE IN FT.	ALTIMETER READS	REFERENCE ALTITUDE IN FT.	ALTIMETER READS
1000	1000	14000	13880
0	0	16000	15880
500	500	18000	17880
1000	1000	20000	19880
1500	1500	22000	---
2000	2000	25000	---
3000	3000	30000	---
4000	4000	35000	---
6000	6000	40000	---
8000	8000	45000	---
10000	10000	50000	---
12000	11990		

Tested By: *Steve Bely* # UTXR015L NH N658DS Date: 12 October 2016


Mustang Aviation
Aircraft - Maintenance - Parts

FAA CRS# UTYR015L

Lexington, KY 40510

17-10-6146

PFD

ALTIMETER SCALE CORRECTION CARD

REFERENCE ALTITUDE IN FT.	ALTIMETER READS	REFERENCE ALTITUDE IN FT.	ALTIMETER READS
-1000	-1000	14000	13990
0	0	16000	15990
500	500	18000	17990
1000	1000	20000	19980
1500	1500	22000	---
2000	2000	25000	---
3000	3000	30000	---
4000	4000	35000	---
6000	6000	40000	---
8000	8000	45000	---
10000	10000	50000	---
12000	11990		
Tested By: <i>Stephen E. Blay</i> N# N658DS Date: 12 October 2016			



FAA CRS# UTYR015L
Lexington, KY 40510

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

Date: 3/9/17

A/C: N658DS

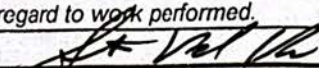
Tach: 3392.9

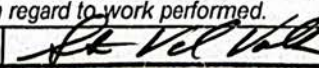
Hobbs: 4425.7

Pilot seat removed, pilot stick thru bolt tightened, and Aileron test for correct movement performed I/A/W Diamond DA40MM Section 27-10-00. Minor justments made to bring Ailerons into specifications outlined in section 06-00-00 Figure number 7 control surface adjustment reports. Left flap adjusted to specifications outlined in Section 06-00-00 Fig. 7 and I/A/W Section 27-50-00. Ludder Cable tensions checked and found to be in spec. at 38lbs left and right. ose wheel fork assembly removed, bushings and shaft greased, and reinstalled assembly. Diamond DA40 1200kg weight increase kit installed I/A/W manufacturer OSB 40-057/2.P/N ESB28mm Spacer installed. HID landing and taxi lights installed I/A/W STC SA01782SE. Camlocks removed and replaced on oil dipstick door and EPU door on cowling.

Jason A. Zwart AP3736574

Take flight Aviation

Airframe Logbook Entry	Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884						Authorized Cirrus Service Center
Date	N' Number	Make/Model	Serial#	Tach	Hobbs	Total Time	W. O.
8/1/2017	N658DS	Diamond DA40	40.662	3457.5	4508.3	3457.5	9201
Adjusted aileron neutral position and travels per manual. Replaced right aft nav light bulb.							
I certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed.							
Authorized Signature: 				Steven VanderValk A&P 2919106			

Airframe Logbook Entry	Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884						Authorized Cirrus Service Center
Date	N' Number	Make/Model	Serial#	Tach	Hobbs	Total Time	W. O.
9/12/2017	N658DS	Diamond DA40	40.662	3477.5	4523.1	3477.5	9240
Repaired right canopy latch by rebonding barrel to pin using Loctite 638.							
I certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed.							
Authorized Signature: 				Steven VanderValk A&P 2919106			

Airframe Logbook Entry	Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884						Authorized Cirrus Service Center
Date	N' Number	Make/Model	Serial#	Tach	Hobbs	Total Time	W. O.
12/12/2017	N658DS	Diamond DA-40	40.662	3499.3	4523.2	3499.3	9250
All systems checked for condition and proper operation. Wheel bearings cleaned and repacked. Removed all flaking cowling heat paint and repainted with customer supplied heat paint. Removed minor corrosion from top of left wing inboard trailing edge and repainted. Replaced wing root moulding, flap up indicator light bulb, both main tires, nose tire, right brake linings, hobbs oil pressure switch, brake hose retaining clips on gear legs and all scat tubing in engine compartment. Removed and reinstalled exhaust system after repair by Dawley, see maintenance releases tags in aircraft records. Installed new aircraft battery RG24-15M serial# 40895717. C/W 2 year G1000 fuse replacement. ELT checked I/A/W FAR 91.207(d). All AD's checked thru 17-24.							
I certify that this aircraft has been inspected in accordance with an Annual inspection and determined to be in an airworthy condition.							
I certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed.							

C&W Aero Services, Inc. CRS# HX1R208K

19 Wright Way, Suite #3, Fairfield, NJ 07004 (973) 227-5750

An Authorized Service Center For: **Beechcraft, Mooney Aircraft & Piper**

WO# 32739	Hobbs: 3666.7	Aircraft TT:	
Reg. #: N658DS	Ser #: 40.662	Manuf: Diamond	Model: DA40

The ATC Transponder tests and inspection required by FAR 91.413 were performed this date and found to comply with FAR 43, Appendix F. The Pitot/Static System has been inspected in accordance with FAR 91.411 and found to be AIRWORTHY. Details of these inspections are on file at this repair station.

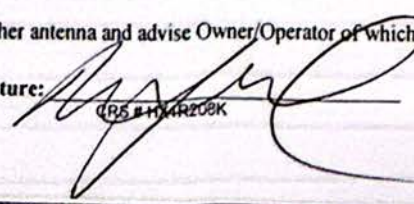
Transponder #1 Make/Model: Garmin GTX33

SN: 89102482

Air Data Computer #1 Make/Model: Garmin GDC74A

SN: 47805964

Identify XM Weather antenna and advise Owner/Operator of which one it is.

Authorized Signature: 

Date: 1/14/2019

LICENCE
NUMBER

C&W Aero Services Inc. 19 Wright Way, Suite 3 Fairfield, NJ 07004 FAA Repair Station HX1R208K			
Master Reads	Encoder	Altitude Reads	Altitude
-1000	-990	-10	-990
0	0	0	10
500	505	5	510
1000	1010	10	1010
1500	1510	15	1510
2000	2015	20	2010
3000	3010	30	3010
4000	4000	40	4010
6000	5980	60	6010
8000	7970	80	8010
10000	9965	100	10010
12000	11960	120	12010
14000	13960	140	14010
16000	15970	160	16005
18000	17920	180	18005
20000	19995	200	20005
22000			
25000			
30000			
35000			
Altitude Make: <u>Garmin</u>			
Altitude Model: <u>GDC74A</u>			
Altitude SN: <u>47805964</u>			
Tested By: <u>Calvin</u>			
Date: <u>1-14-19</u> Work Order No: <u>32747</u>			
Form No. CWF-013			

C&W Aero Services, Inc. CRS #HX1R208K

I certify that the following tests were performed on Altitude Model GDC74AS/N 47805964

In accordance with FAR Part 43 Appendix E as outlined

in Tables I, II, III, and IV. Altitude tested to 20,000 ft.Work Order # 32747 Date 1-14-19Performed By: Calvin

Form#CWF-014

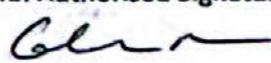
C&W Aero Services, Inc. CRS #HX1R208K

I certify that the following tests were performed on Altitude Model 5934PD3S/N 453083

In accordance with FAR Part 43 Appendix E as outlined

in Tables I, II, III, and IV. Altitude tested to 20000 ft.Work Order # 32748 Date 1-14-19Performed By: Calvin

Form#CWF-014

1. Approving Civil Aviation Authority / County: FAA / United States		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 32747-A	
4. Organization Name and Address: C&W Aero Services, Inc. Essex County Airport, 19 Wright Way Ste #3 Fairfield, NJ 07004-3510				5. Work Order/Contract/ Invoice Number: 32747		
6. Item	7. Description	8. Part Number	9. Qty.	10. Serial Number	11. Status / Work	
1	Air Data Computer	011-00882-00	1	47805964	Tested	
12. REMARKS: CERTIFY TO FAR PART 43 APPENDIX E TABLES I, II, III, IV						
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.			14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation 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 with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature: 		
13d. Name (Typed or Printed)		13e. Date (dd/mm/yyyy)		14c. Approval/Certificate No: HX1R208K		
				14d. Name (Type or Printed) Glen Roggenkamp		
				14e. Date (dd/mm/yyyy) 14 - JAN - 2019		

AIR TIME AND

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

Airframe Logbook Entry	Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884							Authorized Cirrus Service Center
	Date	N' Number	Make/Model	Serial#	Tach	Hobbs	Total Time	W. O.
	8/8/2018	N658DS	Diamond DA40	40.662	3594.9	4640.4	3594.9	9532

Replaced right wing fuel drain valve CAV-180. Replaced #2 and #4 EGT probes A002BG-WIP.

I certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed.

Authorized Signature: Steven VanderValk A&P 2919106

Airframe Logbook Entry	Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884							Authorized Cirrus Service Center
	Date	N' Number	Make/Model	Serial#	Tach	Hobbs	Total Time	W. O.
	1/25/2019	N658DS	Diamond DA-40	40.662	3666.7	4726.4	3666.7	9680

All systems checked for condition and proper operation. Wheel bearings cleaned and repacked, brakes serviced. ELT checked IAW FAR 91.207(d). Battery next due 9/2021. Replaced emergency backup battery. C/W Garmin G1000 ICA 100hr/annual inspection. Cleaned off flaking cowl heat paint, prepped and painted cowl per manual. Replaced seal around air box. Installed new intake filter. Replaced left aileron and flap rod ground strap. Removed and replaced rudder bearing. Removed and replaced left rear air vent. Removed and replaced both brake disks and all brake linings. Removed and replaced steering stop and set nose fork tension. AD15-19-07 fuel injector lines inspection. All AD's checked thru 19-01.

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

I certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed.

Authorized Signature: John L. Longaker A&P 3532411 IA

Airframe Logbook Entry	Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884							Authorized Cessna Service Center
	Date	N' Number	Make/Model	Serial#	Tach	Hobbs	Total Time	W. O.
	6/17/2019	N658DS	Diamond DA-40	40.662	3712	4782.4		9838

Serviced all tire pressures. Insp and found nose steering tension satisfactory.

I certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed.

Authorized Signature: Stephen Dooley A&P 153549117

CARRIED FORWARD

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE
NUMBER

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
 LOG ID# 5763 06-March-2019 WO# 23942
 N658DS S/N 40.662 DIAMOND DA-40

Pg 1 / 1

**** ITEM # 23942-1 INSTALL AVIONICS PER QUOTE ****

DISCREPANCY: INSTALL AVIONICS PER QUOTE.

ACTION: Removed Garmin GTX33 Transponder and GA55 XM Antenna. Installed Garmin GTX345R w/GPS Transponder and Garmin GA37 GPS/XM Antenna IAW STC# SA01714WI. Inserted GTX345R/ADS-B Flight Manual Supplement in POH. GTX345R w/GPS system was functionally tested and was found to perform its intended function with no adverse effects on other aircraft systems. TESTED GARMIN GTX345R w/GPS TRANSPONDER FOR ADS-B COMPLIANCE. SYSTEM WAS FOUND TO COMPLY WITH AC20-165 and 14 CFR 91.225 & 91.227. Weight and Balance change negligible. Equipment list revised.


 Todd Adams
C&W Aero Services, Inc. CRS# HX1R208K

19 Wright Way, Suite #3, Fairfield, NJ 07004 (973) 227-5750

An Authorized Service Center For: **Beechcraft, Mooney Aircraft & Piper**

WO # 31173	Tach: 3405.0	Aircraft TT:	
Reg. #: N658DS	Ser #: 40.662	Manuf.: Diamond	Model: DA40

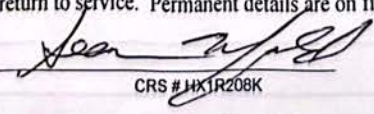
1. Trouble shoot KC140 autopilot not passing PFT. Found pitch servo with an internal issue. Remove pitch servo and install an overhaul exchange unit from Mid Continent Instrument. Install unit as per KAP140 Flight Line Maintenance Manual. Post test of autopilot satisfactory.

KS270C pitch servo P/N 065-00178-2500 S/N 7237

2. XM music will not play in from jacks. Hook up wiring that was capped and stowed for the GMA1347 audio panel. Connect wires as per Diamond Aircraft Option Service Bulletin OSB40-042/1. Post test of XM and music input OK.

3. G1000 alerts box has an on going message "Data Path Fail". Trouble shoot system and found a failed data path to PFD Arinc 429 channel 2 In. Confirmed issue was not the PFD display by temp swapping the MFD. Reconfigure PFD/ GDU as per instructions in Garmin G1000 Line Maintenance Manual. Post check out of the system with run up the alerts box was clear of any messages.

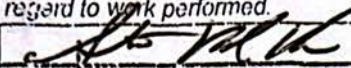
This aircraft, airframe, aircraft engine, or appliance was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service. Permanent details are on file at this Repair Station.

Authorized Signature: 

Date: 4/6/2017

CRS # HX1R208K

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

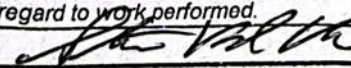
Airframe Logbook Entry		Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884					Authorized Cirrus Service Center
Date	N' Number	Make/Model	Serial#	Tach	Hobbs	Total Time	W. O.
9/5/2019	N658DS	Diamond DA40	40.662	3742.8	4822.3	3742.8	9914
Removed OEM wing tip nav/strobe lights and installed Whelen LED nav/strobe lights as per OEM installation on later serial# aircraft. This is considered a minor alteration. Updated weight and balance to reflect this change.							
I certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed.							
Authorized Signature: 				Steven VanderValk A&P 2919106			

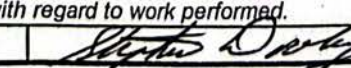
LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
LOG ID# 6144 14-November-2019 WO# 24678
N658DS S/N 40.662 DIAMOND DA-40

Pg 1 / 1

**** ITEM # 24678-1 REPAIR KAP140 AUTOPILOT ****
DISCREPANCY: AUTOPILOT HAS A PITCH FAULT.
ACTION: Sent KAP140 s/n 9995 to Mid-Continent for repair. Unit deemed beyond economical to repair.
Ordered exchange KAP140 s/n M6382. Installed exchange unit in aircraft. Performed configs and calibrations. Ops checked good.

Todd Adams

Airframe Logbook Entry		Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884					Authorized Cirrus Service Center
Date	N' Number	Make/Model	Serial#	Tach	Hobbs	Total Time	W. O.
2/11/2020	N658DS	Diamond DA-40	40.662	3794.7	4884.5	3794.7	10047
All systems checked for condition and proper operation. Wheel bearings cleaned and repacked. Removed flaking lower cowling heat paint and repainted with customer supplied heat paint. Replaced right main tire and tube. C/W 2 year G1000 fuse replacement. ELT checked I/A/W FAR 91.207(d). All AD's checked thru 20-03.							
I certify that this aircraft has been inspected in accordance with an Annual inspection and determined to be in an airworthy condition.							
I certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed.							
Authorized Signature: 				Steven VanderValk A&P 2919106 IA			

Airframe Logbook Entry		Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884					Authorized Cessna Service Center
Date	N' Number	Make/Model	Serial#	Tach	Hobbs	Total Time	W. O.
7/21/2020	N658DS	Diamond DA-40	40.662	3845.2			10197
Serviced all tire pressures. Insp and reset nose steering tension. Taxied aircraft, nose steering found satisfactory.							
I certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed.							
Authorized Signature: 				Stephen Dooley A&P 153549117			

CARRIED FORWARD

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

SIGNATURE

LICENCE
NUMBER

N658DS

Date: November 24, 2020.

TTIS: 3899.2

Removed stock Diamond exhaust system. Installed Power Flow Systems tuned exhaust system P/N PFS-15102 s/n 534 in accordance with STC SA03281AT and Power Flow Installation Report PFS-15250-00, Rev E dated 06/10/2010. Removed Hartzell HC-C2YR-1BF/F7495S propeller and spinner in serviceable condition and installed new Hartzell 2 blade HC-C2YR-1BFP/F7497 propeller and oil cooler face plate assembly in accordance with STC SA02476CH-D and Hartzell installation instructions INST_102706

Revision C dated 04/10/2008. Ground run-up performed with no discrepancies noted. Revised weight and balance data. See FAA 337 form this date for additional information. *Dynamic prop balance*

performed by adding 28.5 grams to starter ring gear. Final vibration level 0.017 ips @ 2000 RPM.

Darren Tilman A&P 2704293.

Airframe Logbook
Entry

Paragon Aircraft Service, Inc.

19 Wright Way, Fairfield, NJ 07004

Phone: (973)575-0364 Fax (973)244-1884

Authorized
Cirrus Service
Center

Date	N° Number	Make/Model	Serial#	Tach	Hobbs	Total Time	W. O.
3/8/2021	N658DS	Diamond DA-40	40.662	3928.5	5044.3	3928.5	10469

All systems checked for condition and proper operation. Wheel bearings cleaned and repacked. Replaced emergency battery next due 3/2023 and left main tire. Replaced ELT battery next due 2/2026. ELT checked I/AW FAR 91.207(d). All AD's checked thru 21-04.

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

I certify that the work described above was performed satisfactorily and in accordance with approved/acceptable data and is approved for return to service with regard to work performed.

Authorized Signature:

Steven VanderValk A&P 2919106 IA

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

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

C&W Aero Services, Inc. CRS# HX1R208K

19 Wright Way, Suite #3, Fairfield, NJ 07004 (973) 227-5750
An Authorized Service Center For: **Beechcraft, Mooney Aircraft & Piper**

WO# 34525	Tach: 3928.5	Aircraft TT:	
Reg. #: N658DS	Ser #: 40.662	Manuf: Diamond	Model: DA40

The ATC Transponder tests and inspection required by FAR 91.413 were performed this date and found to comply with FAR 43, Appendix F. The Pitot/Static System has been inspected in accordance with FAR 91.411 and found to be **AIRWORTHY**. Details of these inspections are on file at this repair station.
Transponder #1 Make/Model: Garmin GTX345R SN: 3EH420778
Air Data Computer #1 Make/Model: Garmin GDC74A SN: 47805964

Authorized Signature: [Signature] Date: 3/1/2021
CRS # HX1R208K

C&W Aero Services Inc. 19 Wright Way, Suite 3 Fairfield, NJ 07004 FAA Repair Station: HX1R208K				Altitude Reads	
Master Reads	Encoder	Y/100	Altitude	Altitude	
				Encoder	Altitude
-1000	-10		-990		
0	0		10		
500	5		510		
1000	10		1010		
1500	15		1510		
2000	20		2010		
3000	30		3010		
4000	40		4010		
6000	60		6010		
8000	80		8010		
10000	100		10010		
12000	120		12010		
14000	140		14010		
16000	160		16000		
18000	180		18000		
20000	200		20000		
22000					
25000					
30000					
35000					
				Altitude Make: <u>GDC74A</u>	
				Altitude Model: <u>GDC74A</u>	
				Altitude S/N: <u>47805964</u>	
				Tested By: <u>[Signature]</u>	
				Date: <u>3-1-21</u>	
				Form No. CWF-013	

C&W Aero Services Inc. CRS HX1R208K
I certify that the following tests were performed on Altitude model 5934PP-3
S/N 453083 in accordance with FAR Part 43 Appendix E as outlined in
Tables I, II, III, and IV. Altitude tested to 20,000 ft.
Work Order No. 34525 Date: 3-1-21
Performed By: [Signature]
Form No. CWF-013

C&W Aero Services Inc. CRS HX1R208K

I certify that the following tests were performed on Altitude model GDC74A
S/N 47805964 in accordance with FAR Part 43 Appendix E as outlined in
Tables I, II, III, and IV. Altitude tested to 20,000 ft.
Work Order No. 34525 Date: 3-1-21
Performed By: [Signature]

1. Approving Civil Aviation Authority / County: FAA / United States		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 34525-A	
4. Organization Name and Address: C&W Aero Services, Inc. Essex County Airport, 19 Wright Way Ste #3 Fairfield, NJ 07004-3510					5. Work Order/Contract/ Invoice Number: 34525	
6. Item	7. Description	8. Part Number	9. Qty.	10. Serial Number	11. Status / Work	
1	Altimeter	5934PD-3	1	453083	Tested	
12. REMARKS: CERTIFY TO FAR PART 43 APPENDIX E TABLES I, II, III, IV						
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.			14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation 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 with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature: 		14c. Approval/Certificate No: HX1R208K
13d. Name (Typed or Printed)		13e. Date (dd/mm/yyyy)		14d. Name (Type or Printed) Glen Roggenkamp		14e. Date (dd/mm/yyyy) 01-MAR-2021

SRQ Avionics
8191 N. Tamiami Trail B2 Sarasota, FL 34243



Date: 3/18/2021 Work Order: 18144
N658DS; Model: DA40; SN: 40.662; Hobbs: 5053.8

- Troubleshoot PFD fan fail message on G1000 system, removed bad Sandia fan (PN:305-468-00 SN:1219) and ordered a new one (PN:305-468-00 SN:14331) and installed into aircraft. Fan is working properly now.
Ramp tested operational.

I certify all work done to the aircraft and component identified above were done in accordance with current regulations of the Federal Aviation Administration and were found approved for return to service with respect to the work performed.

Larry Viergever for Sarasota Avionics Inc. QV0R957X

SRQ Avionics
8191 N. Tamiami Trail B2 Sarasota, FL 34243



Date: 11/24/2021 Work Order: 18431
N658DS; Model: DA 40-180; SN: 40.662; Hobbs: 5151.2

- Autopilot erratic in roll mode. Ramp test found roll servo not driving left or right when commanded by heading bug. Connected laptop computer and looked at fault logs and diagnostics. Found roll servo defective, subbed good servo and it works. Ordered a replacement servo from Southeast Aerospace.
Removed bad roll servo (PN:065-00179-0300 SN:11677) and installed exchange servo (PN:065-00179-0300 SN:2224) in accordance with Diamond Aircraft Doc # 6.02.01 Rev 7 section 22-10-00, dated April 2013.
Ramp tested operational.

I certify all work done to the aircraft and component identified above were done in accordance with current regulations of the Federal Aviation Administration and were found approved for return to service with respect to the work performed.

Larry Viergever for Sarasota Avionics Inc. QV0R957X



3330 AIRPORT LANE
SALISBURY, NC 28154
OFFICE: 704-431-0000
INFO@SOUTHTECAVIATION.COM

DATE: APRIL 26, 2022 | DIAMOND DA40 | S/N: 40.662 | REG: N658DS
TACH: 4048.1 HRS. TTAF: 4048.1 HRS.

ANNUAL INSPECTION COMPLETED THIS DATE USING DIAMOND AIRCRAFT DA40 INSPECTION CHECKLIST AND AIRPLANE MAINTENANCE MANUAL. AD'S CHECK THROUGH BI-WEEKLY NUMBER 2022-09.

2000 HOUR INSPECTION COMPLETED THIS DATE USING DIAMOND AIRCRAFT DA40 INSPECTION CHECKLIST AND AIRPLANE MAINTENANCE MANUAL. AD'S CHECK THROUGH BI-WEEKLY NUMBER 2022-09.

MAJOR STRUCTURAL INSPECTION COMPLETED THIS DATE USING DIAMOND AIRCRAFT DA40 INSPECTION CHECKLIST AND AIRPLANE MAINTENANCE MANUAL. AD'S CHECK THROUGH BI-WEEKLY NUMBER 2022-09.

AD 93-05-06 ACS IGNITION SWITCHES. COMPLIED WITH BY INSTALLING SWITCH KIT PART NUMBER A-3650-2 OPS CHECK GOOD. NEXT DUE AT TACH:6048.1

AD 15-19-07 EXTERNAL FUEL INJECTOR LINES. COMPLIED WITH BY INSPECTION IAW SERVICE BULLETIN (MSB) NO. 342G DATED JULY 16, 2013; SUPPLEMENT NO. 1 TO MSB NO. 342G, DATED AUGUST 29, 2013; AND SUPPLEMENT NO. 2 TO MSB NO. 342G, DATED JANUARY 23, 2014. NO DEFECTS NOTED. NEXT DUE AFTER ANY MAINTENANCE IS DONE ON THE ENGINE WHERE ANY CLAMP ON A FUEL INJECTOR LINE WAS DISCONNECTED, MOVED, OR LOOSENED, AND WITHIN EVERY 110 HOUR TIS AND AFTER EACH ENGINE OVERHAUL.

MSB 40-091 NOSE LANDING GEAR LEG DUE INSPECTION. COMPLIED WITH MSB BY FOLLOWING DIAMOND AIRCRAFT WITH MSB 40-091 DATED JANUARY 18, 2021.

PERFORMED POWERFLOW EXHAUST INSTRUCTIONS FOR CONTINUED AIRWORTHINESS.

COMPLIED WITH ATA CHAPTER 51 ELECTRICAL BONDING TEST. NEXT DUE IN AT **5048.1 HRS TTAF**.
COMPLIED WITH ATA CHAPTER 24 ESSENTIALS BUSS INSPECTION. NEXT DUE IN AT **5048.1 HRS TTAF**.

ELT TESTED IN ACCORDANCE WITH CFR 91.207(d), **EXP: FEBRUARY 2026**.

1. REMOVED CLEANED AND ADJUSTED ELEVATOR TRIM MECHANISM.
2. REPLACED FUEL TANK INTERCONNECT HOSES AND CLAMPS.
3. REMOVED AND REPLACED FIRE EXTINGUISHER MODEL A344T.
4. REMOVED AND REPLACED FLP UP LIGHT BULB P/N T4.6 24-20.
5. REMOVED AND REPLACED COWLING FIRE PAINT.
6. REMOVED AND PAINTED RIGHT AND LEFT STEPS INSTALLED NED STEP PADS USING P/N'S 20-5210-03-07 AND 20-5210-04-07.
7. REMOVED AND REPAIRED LOWER COWLING AT EXHAUST HOLE.
8. PAINTED RIGHT WING LEADING EDGE.
9. REPAIRED LEFT WING ROOT CORROSION.
10. ADJUSTED TAXI LIGHT LOWER.
11. CLEANED TRIM SWITCH WITH CONTACT CLEANER OPS CHECK GOOD.
12. PUT NEW WEIGHT AND BALANCE SHEET IN AIRCRAFT DUE TO MAX GROSS WEIGHT INCREASE.
13. REPLACED PAX DOOR AFT HINGE P/N DA4-5200-00-51, INSTALLED NEW HINGE SHAFT P/N 415452.
14. REPLACED NOSE TIRE TUBE WITH NEW P/N 302-013-400 TUBE.
15. REPLACED RIGHT WING SUMP DRAIN P/N CAV-180.
16. REPLACED RIGHT AND LEFT WING T SEALS P/N DA-9057-00-01.
17. REPLACED TOP COMM ANTENNA P/N DM C63-1/A.
18. REPLACED RIGHT FLAP BONDING STRAP.
19. REPLACED TRIM BELLOWS P/N K050201001.
20. REPLACED PAX WINDOW SEAL.
21. REPLACED TWO STATIC WICKS P/N 16630.
22. REPLACED AUDIO ALERT INDICATOR P/N E-04.7.

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION AND RETURNED TO SERVICE.

Timothy O'Neil

INSPECTION, REPAIRS & REPLACEMENT

SIGNATURE

LICENCE
NUMBER

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

NEW ENGLAND AERO SERVICES

AIRFRAME MAINTENANCE RECORD

Make	Model	Serial Number	Registration	Date
Diamond	DA40	40.662	N658DS	6-8-2023
Tach Time:	4127.3	AF TT:	Hobbs:	

Performed an annual inspection using a Diamond checklist.

The following additional maintenance was performed:

1. Entire aircraft lubed, brake reservoir and battery serviced.

Tested ELT I/A/W FAR 91.207 (d). Battery next due 2-5-2026.

C/W the following Ad's:

All ADs checked for compliance through issue 2023-12.

I certify that the above stated maintenance and/or inspection(s) was performed in accordance with the current FAR's, and the airframe or engine identified above was found to be in an airworthy condition and is approved for return to service with respect to the work performed. Details are located on file under Work Order No. _____.

Signature: [Signature] Name: Gerry Sykes. Certificate Number: A&P 3664796 IA

C&W Aero Services, Inc. CRS# HX1R208K

19 Wright Way, Suite #3, Fairfield, NJ 07004 (973) 227-5750

An Authorized Service Center For: **Beechcraft, Mooney Aircraft & Piper**

WO# 36500	Tach: 4129.9	Aircraft TT:	
Reg. #: N658DS	Ser #: 40.662	Manuf: Diamond	Model: DA40

The ATC Transponder tests and inspection required by FAR 91.413 were performed this date and found to comply with FAR 43, Appendix F. The Pitot/Static System has been inspected in accordance with FAR 91.413 and found to be AIRWORTHY. Details of these inspections are on file at this repair station.

Transponder #1 Make/Model: Garmin GTX345R

SN: 3EH420778

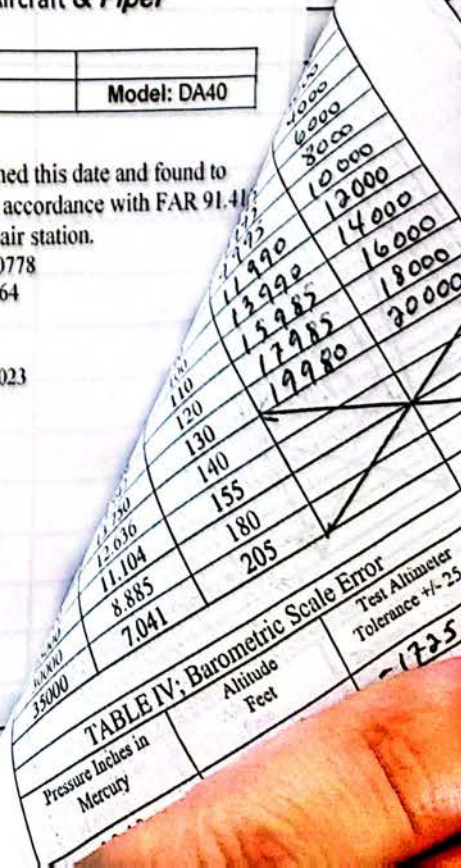
Air Data Computer #1 Make/Model: Garmin GDC74A

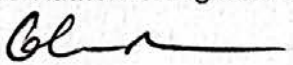
SN: 47805964

Authorized Signature: [Signature]

CRS # HX1R208K

Date: 6/16/2023



1. Approving Civil Aviation Authority / County: FAA / United States		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 36500 -A	
4. Organization Name and Address: C&W Aero Services, Inc. Essex County Airport, 19 Wright Way Ste #3 Fairfield, NJ 07004-3510					5. Work Order/Contract/ Invoice Number: 36500	
6. Item	7. Description	8. Part Number	9. Qty.	10. Serial Number	11. Status / Work	
1	Air Data Computer	011-00882-00	1	47805964	Tested	
12. REMARKS: CERTIFY TO FAR PART 43 APPENDIX E TABLES I, II, III, IV						
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.				14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation 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 with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.		
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:		14c. Approval/Certificate No:
						HX1R208K
13d. Name (Typed or Printed)		13e. Date (dd/mm/yyyy)		14d Name (Type or Printed)		14e. Date (dd/mm/yyyy)
				Glen Roggerkamp		16-JUN-2023

FAA Form 8130-3 (02-14)

NSN: 0052-00-012-9005

Customer: Brian Kelly Aircraft Reg. No.: N658DS Work Order No.: 36500
Altimeter Manufacturer: Garmin Model: GDC74A S/N: 47805964

NEW ENGLAND AERO SERVICES AIRFRAME MAINTENANCE RECORD

Make	Model	Serial Number	Registration	Date
Diamond	DA40	40.662	N658DS	7-12-2024
Tach Time:	4183.7	AF TT:	4183.7	Hobbs: 5350.6

Performed an annual inspection using a Diamond Aircraft checklist.

The following additional maintenance was performed:

1. Entire aircraft lubed, brake reservoir and battery serviced.
2. Rotated right MLG tire for extended wear.
3. Installed new emergency battery P/N D41-2560-93-00. Next due 7/2026

Tested ELT I/A/W FAR 91.207 (d). Battery next due **FEB 5/2026**.

C/W the following Ad's:

2022-13-06 Affected baggage net not installed in aircraft. No action required.

- _____ All ADs checked for compliance through issue 2024-13. _____

I certify that the above stated maintenance and/or inspection(s) was performed in accordance with the current

FAR's, and the airframe or engine identified above was found to be in an airworthy condition and is approved for

the work performed. Details are located on file under Work Order No.

return to service with respect to the work performed. Details are located on file under Work Order No. _____
 Given at _____ Name: Gerry Sykes Certificate Number: A & P 3664796 IA

Signature: [Signature] Name: Gerry Sykes Certificate Number: A&T 5654756 IN

[illegible][illegible]