

AIRCRAFT TECHNICAL LOGS

Section 1. AIRFRAME

**Airworthiness Directive Compliance Record
Chronological Listing - FAA Style**

Arthur Natvig - N541AJ

Release # 2006-15 - 8/01/2006

AD# Effective	Subject	Date & Hours @ Compliance	Method Of Compliance	O	R	Next Comp @ Hrs/Date	Authorized Signature & Number
44-44-44 99/99/03	NO AD'S FOR THIS MODEL AT THIS TIME/	8/01/2006	No AD's through release # 2006-15.	X		N/A	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
*84-26-02 01/29/85	PAPER INDUCTION AIR FILTERS/	8/01/2006	Replace filter each 500 hrs.		X	500 hrs.	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
*93-05-06 04/29/93	IGNITION SWITCHES/	8/01/2006	Inspection and lubrication due each 2000 hrs.		X	2000 hrs.	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
*02-26-01 01/31/03	EXTERNAL FUEL INJECTION LINES/	8/01/2006 @ 149.8	Inspect each 100 hrs, annual, and after fuel system maintenance.		X	249.8	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
*03-14-03 08/14/03	ROTARY FUEL PUMP RELIEF VALVE SCREWS/	8/01/2006	NA - Equipment not installed.		X	N/A	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
*04-10-14 C1 06/25/04	CRANKSHAFT GEAR AND GEAR RETAINING BOLT/	8/01/2006	Accomplish after a prop strike or sudden stoppage. See AD for definitions.		X	N/A	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
05-01-19 02/23/05	SOFTWARE UPGRADE/	8/01/2006	NA - latest software version already updated.	X		N/A	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
05-11-05 07/18/05	AFM, PLACARD, MODEL UPGRADE/	8/01/2006	NA - Equipment not installed.	X		N/A	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
05-14-11 08/17/05	MAINTENANCE AND REPAIR BY SOUTHERN CALIFORNIA PROPELLER SERVICE/	8/01/2006	NA - Southern CA Propellers not used.	X		N/A	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
05-19-11 10/21/05	300 HORSEPOWER OR LOWER CRANKSHAFTS/	8/01/2006	NA by engine model number.	X		N/A	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
05-20-31 10/05/05	1M OR 700K DATABASES/	8/01/2006	NA - Equipment not installed.	X		N/A	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
*05-25-08 01/23/06	ALTITUDE DISPLAY INFORMATION/	8/01/2006	NA - Equipment not installed.		X	N/A	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
05-26-10 01/31/06	ENGINE COMPONENTS, INC. PARALLEL VALVE CYLINDER ASSEMBLIES/	8/01/2006	NA - Equipment not installed.	X		N/A	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
06-03-08 03/10/06	AFM, PLACARD, VACUUM PUMP DUAL CHAMBERS/	8/01/2006	NA - Equipment not installed.	X		N/A	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
06-06-16 04/27/06	CRANKSHAFT REPLACEMENT/	8/01/2006	NA by Eng Model and Serial Numbers.	X		N/A	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
06-10-21 06/22/06	ECI CONNECTING RODS/	8/01/2006	NA - Equipment not installed.	X		N/A	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>
06-12-07 07/11/06	ENGINE COMPONENTS, INC. PARALLEL VALVE CYLINDER ASSEMBLIES/	8/01/2006	NA to new engine.	X		N/A	Michael S. Herbert AP520706319 <i>Michael S. Herbert</i>

* Indicates possible recurring inspections

Tdata, Inc (tdatacorp.com)

8/2/06

Page 1 of 1

AIRCRAFT

1. Nationality and Registration N541AJ
2. Manufacturer's Designation DA 40
3. Manufacturer's Serial Number 40.541
4. Type Approval or Specification Number A-224 / A47CE
5. Date of Manufacture 2005
6. Aircraft Inspection Cycle _____

AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	0	0	0	0	AIRCRAFT NEW WITH HARTZELL PROPELLER INSTALLED AS PER SC No.



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

SERIAL NUMBER

40.541

REGISTRATION MARK

N541AJ



I certify that the ATC Transponder & Altitude Reporting System(s) have been tested in accordance with Standard 571, Appendix F F.A.R. 91:217; & F.A.R. 91:413.

DATE

20 July, 2005

INSPECTOR

[Signature] DA Q 42



18 JULY 2005 S/N 40.541
COMPASS DEVIATION, ALL ELECTRICS ON

FOR	N	30	60	E	120	150
STEER	001	029	058	087	118	150
FOR	S	210	240	W	300	330
STEER	181	212	241	272	302	333



INDEPENDENT CHECK OF FLIGHT AND POWERPLANT CONTROLS

DATE

20 July, 2005

INSPECTOR

[Signature] DA Q 85

JULY 20, 2005	0	0	0	0	AIRCRAFT SERVICEABLE FOR FLIGHT
JULY 20, 2005	0	0	0	0	AIRCRAFT SERVICEABLE FOR FLIGHT
JULY 20, 2005			2.5		
JULY 20, 2005			3.6		
JULY 21, 2005			3.6		AIRCRAFT SERVICEABLE FOR FLIGHT
JULY 21, 2005			4.1		
JULY 28, 2005			4.1		ALL DISCREPANCIES RECTIFIED



DIAMOND AIRCRAFT INDUSTRIES INC.
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

28 July, 2005

INSPECTOR

[Signature] DA Q 42

4.1

CARRIED FORWARD

ENGINEERING RECORD

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

SKYBROOK GARMIN INTEGRATED AVIONICS SYSTEM INSTALLED AS PER STC No. SMO1254WJ APPROX. 1 →

DA
Q 42



I certify that the Static Pressure system has been inspected and tested in accordance with Standard 571, Appendix B of the Airworthiness Manual, and F.A.R. 91:411

DATE INSPECTOR
 20 July, 2005 DA
Q 42



The ELT was tested and inspected in Accordance with Standard 571, Appendix G of the Airworthiness Manual and F.A.R. 91:207(d)

ANNUAL INSPECTION DUE: JUNE 2006
BATTERY DUE: SEPTEMBER 2007

DATE INSPECTOR
 20 July, 2005 DA
Q 42



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

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

DATE INSPECTOR

20 July, 2005 DA
Q 42

DA
Q 42

DA
Q 42

CA 376 393

CA 376 393

DA
Q 42

CA 376 393

DA
Q 42



U.S. Standard Airworthiness Certificate, issued:

(Date) JUL 29 2005, has been installed in the aircraft on behalf of NE-MIDO-46 on:

(Date) JUL 29 2005

(Print) R. SALTON (Signature)



AIR TIME AND

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

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED

BROUGHT FORWARD			N541AJ TOTAL TIME 38.1	SN:40.541 LANDINGS: N/A	Page 1 of 1 DATE: 10-19-05
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COMPLIED WITH THE FOLLOWING INSPECTION ITEMS

- COMPLIED WITH 25HR SINCE NEW INSPECTION. NO DISCREPANCIES FOUND. ALL WORK PERFORMED IAW DIAMOND DA40 MM CHAPTER 5-00-00

THE ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS05-1241

S.O. #. LS05-1241

ACFT. TOTAL TIME: 38.1

AUTHORIZED SIGNATURE

Jocely Jolley
AP550693221

DATE: 10-19-05

WEST COAST CHARTERS INC 2881 E. SPRING ST. LONG BEACH, CA 90806

		TOTAL TIME 38.1	SN: L-32090-51A CYCLES: N/A	Page 1 of 1 DATE: 10-19-05
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COMPLIED WITH THE FOLLOWING INSPECTION ITEMS

- COMPLIED WITH 25HR SINCE NEW INSPECTION. REMOVED CHAMPION OIL FILTER P/N CH48-110 AND INSPECTED OIL FILTER. NO DISCREPANCIES FOUND. SERVICED ENGINE WITH 8 QTS. OF AEROSHELL 100 MINERAL OIL. ALL WORK PERFORMED IAW LYCOMING IO-360 MM

THE ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND DETAILS OF WORK PERFORMED CAN BE FOUND UNDER SHOP ORDER LS05-1241 OF THIS AGENCY

S.O. #. LS05-1241

ACFT. TOTAL TIME: 38.1

AUTHORIZED SIGNATURE

Jocely Jolley
AP550693221

DATE: 10-19-05

WEST COAST CHARTERS INC, 2881 EAST SPRING STREET LONG BEACH, CA 90806

	N541AJ HOBBS TIME 92.2	SN: 40.541 TACH TIME 62.8	Page 1 of 1 DATE: 1-20-06
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PERFORMED THE GARMIN GDL-69A SYSTEM INSTALLATION IAW DIAMOND SERVICE BULLETIN DAI OSB-40-042 AND PERFORMED THE GARMIN G1000 SYSTEM UPDATE TO SOFTWARE VERSION 010-00369-08 IAW THE DIAMOND DA 40 G1000 POST INSTALLATION CHECKOUT PROCEDURES. THE FOLLOWING PARTS WERE INSTALLED: GDL69A UNIT P/N 011-00987-00 S/N 47754529 AND GA55 ANTENNA P/N 010-10600-01 S/N 87503230.

THE ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS06-1008

AUTHORIZED SIGNATURE

Edward Diaz
EDWARD DIAZ A2783912

DATE: 1-20-06

WEST COAST CHARTERS INC, 2881 EAST SPRING STREET LONG BEACH, CA 90806

CARRIED OVER **

ENGINEERING RECORD

4

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE
NUMBER

Installed GARMIN Warranty exchanged PFD & Re-loaded system software. Operational tested satisfactory. Aircraft is approved for return to service. All work accomplished in this Certification has been recorded in Long Beach Avionics W/Q# 6070.

Aircraft Data: Reg No: N541AJ Serial No: 40-541 Make: Diamond Model No: DA-40 Total LDG: N/A
Aircraft Total Time: 127.4

Item Data: P/N 011-00972-00 S/N 86502824 MDL No: GDU 1040 (Removed)

Item Data: P/N 011-00972-00 S/N 86500615 MDL No: GDU 1040 (installed)

Date: May/06/2006



**LONG BEACH
AVIONICS**

Signature: 

**FAA REPAIR STATION # LBXR245X. 2901 EAST SPRING STREET HANGAR-E
LONG BEACH, CA 90806**

Installed GARMIN Warranty exchanged GDL-69A WX Data receiver. Re-loaded system software and Operation tested satisfactory Aircraft is approved for return to service. All work accomplished in this Certification has been recorded in Long Beach Avionics W/O# 6070.

**Aircraft Data: Reg No:N541AJ Serial No: 40-541 Make: Diamond Model No: DA-40 Total LDG: N/A
Aircraft Total Time: 127.4**

Item Data: P/N 011-00987-00 Serial No: 47754529 MDL No: GDL-69A (Removed)

Item Data: P/N 011-00987-00 Serial No: 47752952 MDL No: GDL-69A (Installed)

Date: May/06/2006

Signature: _____



**LONG BEACH
AVIONICS**

**FAA REPAIR STATION # LBXR245X. 2901 EAST SPRING STREET HANGAR-E
LONG BEACH, CA 90806**

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			N541AJ Total Time: 149.8	SN: 40.541 Hobbs Time: 211.7	DA40-180 DATE: 8/02/2006
<p>Performed a Annual Inspection in accordance with 14 CFR Part 43, appendix D and the Diamond DA 40 Series Aircraft Maintenance Manual, Rev. 4. Accomplished lubrication and servicing schedule. Removed, serviced, and charged aircraft battery. Inspected ELT in accordance with 14 CFR Part 91.207 (d). Batteries expire 09/2007. Replace batteries annually per manufacturer's recommendation. Inspected the Emergency Battery System. Complied with Diamond MSB 40-046 by inspection of Nose Gear Leg Pivot for cracking - no defects noted. Next due Tach: 349.8. Complied with AD 02-26-01 (External Fuel Injection Lines), dated 01/31/03, by visual inspection. Next due Tach: 249.8. AD 84-26-02 (Paper Induction Air Filters), dated 01/29/85, is due at Tach: 500.0. AD 93-05-06 (Ignition Switches), dated 4/29/93, is due at 2000 hrs. AD's checked through Tdata release # 2006-15.</p> <p>ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS06-1150</p> <p>I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES FOR AN INSPECTION PROGRAM REQUIRED BY FAR 91.409 (F) (3), AND IS APPROVED FOR RETURN TO SERVICE.</p> <p>S.O. # LS06-1150</p> <p>AUTHORIZED SIGNATURE: Michael S. Herbert AP31535611A <i>Michael S. Herbert</i> WEST COAST CHARTERS INC, 2881 EAST SPRING STREET LONG BEACH, CA 90806</p>					
			N541AJ Total Time: 198.3	SN: 40.541 Hobbs Time: 276.9	DA40-180 DATE: 12/28/2006
<p>Complied with Garmin Software Service Bulletin # 0622. Installed G1000/DA40 Loader Card P/N: 010-00369-12 with the G1000 System Software Version 0369.12. Configured the GMA 1347 music jacks IAW the Garmin Field Upgrade Instructions, para. 5.2. System operational check normal. Supplied owner with Flight Manual Supplement # 190-00303-02, Rev. 11, and Garmin Cockpit Reference Guide P/N: 190-00324-06, Rev. A.</p> <p>ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS06-1281.</p> <p>I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES FOR AN INSPECTION PROGRAM REQUIRED BY FAR 91.409 (F) (3), AND IS APPROVED FOR RETURN TO SERVICE.</p> <p>AUTHORIZED SIGNATURE: Michael S. Herbert AP31535611A <i>Michael S. Herbert</i> WEST COAST CHARTERS INC, 2881 EAST SPRING STREET LONG BEACH, CA 90806</p>					
			N541AJ Total Time: 243.5	SN: 40.541 Hobbs Time: 371.5	DA40-180 Date: 5/15/2007
<p>Complied with Diamond Optional Service Bulletin # OSB-40-050. Installed an external static pressure source for the KAP140 autopilot system in accordance with Diamond Work Instruction # WI-OSB-40-050, Section III, Part I. System operational checks normal.</p> <p>ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS07-1127.</p> <p>AUTHORIZED SIGNATURE: Michael S. Herbert AP31535611A <i>Michael S. Herbert</i></p>					



2881 E. Spring Street, Long Beach, CA 90806
Office: 562-981-6064 Fax: 562-981-6071

CARRIED FORWARD

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
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N541AJ	SN: 40.541	DA40-180
Total Time:	Hobbs Time:	Date:
274.9	373.9	7/11/2007

Owner had Alternator and "Main Tie" circuit breaker replaced in Driggs, Idaho. Inspected installation, found Alternator P/N: ALU8521LS, and Circuit Breaker P/N: 2TC2-25, to be installed in accordance with the Diamond DA40 Aircraft Maintenance Manual, Chapter 24. Removed and replaced Alternator Cable assembly, P/N: DA4-2406-41-00. Removed MFD Cooling Fan, P/N: 013-00102-00, S/N: 616. Installed new cooling fan P/N: 013-00102-00, S/N: 2511. Systems operational check normal.

ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS07-1192.

AUTHORIZED SIGNATURE: Michael S. Herbert AP31535611A



2881 E. Spring Street, Long Beach, CA 90806
Office: 562-981-6064 Fax: 562-981-6071

N541AJ	SN: 40.541	DA40-180
Total Time:	Hobbs Time:	Date:
284.5	386.6	08/17/2007

Complied with Diamond Aircraft OSB 40-057 and Work Instruction OSB-40-057, Increase of Maximum Take-off Weight. Amended aircraft weight and balance. Replaced nose gear rubber dampers P/N: WZ8000-63x50 & WZ8000-32x40. Replaced landing gear light switch on instrument panel.

ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS07-1230.

AUTHORIZED SIGNATURE: Michael S. Herbert AP31535611A



2881 E. Spring Street, Long Beach, CA 90806
Office: 562-981-6064 Fax: 562-981-6071

N541AJ	SN: 40.541	DA40-180
Total Time:	Hobbs Time:	Date:
288.2	392.2	9/10/2007

Performed an Annual Inspection in accordance with the Diamond DA 40 Series Aircraft Maintenance Manual, Rev. 4. Accomplished lubrication and servicing schedule. Removed, serviced, and charged aircraft battery. Inspected ELT in accordance with 14 CFR Part 91.207 (d). Replaced batteries. Batteries expire 09/2009. Inspected the Emergency Battery System. Installed new Stand-by Altimeter, P/N: 5934PD-3, S/N: 463696. Replaced left and right MLG tires with new Michelin Aviator 15/600-6 ply tires. Replaced left and right MLG brake linings. Installed new auxiliary fuel pump P/N: 5100-00-9, S/N: 8142. Complied with AD 07-17-06 (Nose landing gear), dated 9/25/2007, in accordance with Diamond MSB 40-046, by inspection of Nose Gear Leg Pivot for cracking - no defects noted. Next due Tach: 488.2. Complied with AD 02-26-01 (External Fuel Injection Lines), dated 01/31/03, by visual inspection. Next due Tach: 388.2. AD 84-26-02 (Paper Induction Air Filters), dated 01/29/85, is due at Tach: 500.0. AD 93-05-06 (Ignition Switches), dated 4/29/93, is due at 2000 hrs AD's checked through Tdata release # 2007-18.

ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS07-1253

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

AUTHORIZED SIGNATURE: Michael S. Herbert AP31535611A



2881 E. Spring Street, Long Beach, CA 90806
Office: 562-981-6064 Fax: 562-981-6071

N541AJ
Total Time:
288.2

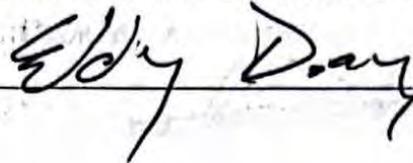
SN: 40.541
Hobbs Time:
392.2

DA40-180
Date:
9/10/2007

Complied with 24 month inspection of Altimeter and transponder systems. I certify that the ATC Transponder and Altitude Reporting System(s), and the Static Pressure system(s) have been tested in accordance with 14 CFR Part 91.411, 91.413, and Part 43 Appendix's E & F. See attached correction card.

ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS07-1231.

AUTHORIZED SIGNATURE: Edward Diaz A2783912



2881 E. Spring Street, Long Beach, CA 90806
Office: 562-981-6064 Fax: 562-981-6071

N541AJ
Total Time:
371.0

SN: 40.541
Hobbs Time:
500.7

Diamond DA40
Date:
10/10/2008

COMPLIED WITH THE FOLLOWING INSPECTIONS:

1. Annual Inspection IAW DA40 AMM, CH 5.
2. ELT in accordance with FAR 91.207(d). Battery expires 8/2009
3. Inspected Emergency Battery system IAW the DA40 AMM, CH 24.

COMPLIED WITH THE FOLLOWING LUBRICATION SCHEDULES:

1. 100 Hour lubrication in accordance with the DA 40 AMM, CH 12.

COMPLIED WITH THE FOLLOWING SCHEDULED MAINTENANCE:

1. Fire Extinguisher weight and pressure check.

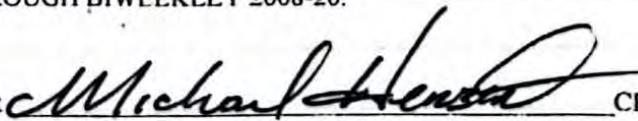
PERFORMED THE FOLLOWING MAINTENANCE:

1. Installed new Stall Warning Horn P/N: 0713348-1 (D) IAW DA 40 AMM, CH 27.
2. Installed M-20 Air/Oil Separator IAW STC # SA02033AT and the M-20 Crankcase Air/Oil Separators Installation Instruction dated 8/10/2006. Weight and balance not affected.
3. Installed new Main Ship Battery P/N: RG24-15M, S/N: 40254944, IAW DA40 AMM, CH 24.
4. Installed new battery in ELT remote activation switch, P/N: 28L. System operational check normal IAW FAR91.207(d).
5. Complied with Slick service bulletin # SB1-06A IAW service bulletin accomplishment instructions.
6. Complied with Diamond MSB 40-058 by installation of 100 Ohm circuit board IAW service bulletin accomplishment instructions.
7. Complied with AD 07-17-06 (Nose gear leg pivot axle for cracks) IAW Diamond MSB 40-046. Replaced Nose gear leg P/N: D41-3223-10-00-1 IAW DA40 AMM, CH 32. AD due again at Tach: 571.0.
8. Complied with AD 08-14-07 (External fuel injection lines) by visual inspection. Next due Tach: 471.0
9. AD 08-19-05 (ECI Titan Cylinders) does not apply - equipment not installed on this aircraft.
10. AD 08-13-28 (Propeller hub lube holes) does not apply to this prop model number.

ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS08-1185.

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES FOR AN INSPECTION PROGRAM REQUIRED BY FAR 91.409 (E) (2), AND IS APPROVED FOR RETURN TO SERVICE. AD'S REVIEWED THROUGH BIWEEKLEY 2008-20.

AUTHORIZED SIGNATURE: Michael S. Herbert



CRS # GSPR467E.



2881 E. Spring Street, Long Beach, CA 90806
Office: 562-981-6064 Fax: 562-981-6071

CARRIED FORWARD



Tail# N541AJ	Model: Diamond DA-40	S/N: 40.541
Hobbs: 640.6	Total Time: 480.7	Landings: N/A

COMPLIED WITH THE FOLLOWING INSPECTION ITEMS

- 1- Annual/100hr inspection using the DA-40 MM checklist as a guide.
- 2- 12 month ELT test per FAR 91.207(d). Installed new batteries. Exp. 11/2010.
- 3- The 24 month Altimeter and Static System test required by FAR Part 91.411 have been performed and found to comply with appendix E and F of Part 43 of this chapter.

THE ALTIMETERS HAVE BEEN TESTED TO 18,000 FEET				
STANDBY ALTIMETER	P/N	5934PD-3	S/N	434355
#1 AIR DATA COMPUTER	P/N	011-00882-00	S/N	47801606

- 4- The 24 month ATC Transponder tests required by FAR Part 91.413 have been performed and found to comply with Appendix F of Part 43 of this chapter.

#1 TRANSPONDER	P/N 011-00779-00	S/N 84701354
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COMPLIED WITH THE FOLLOWING SERVICE BULLETINS AND AIRWORTHINESS DIRECTIVES

- 1- Airworthiness Directives checked biweekly thru 2009-22.
- 2- AD 09-10-04, N/A due to P/N installed, no further action required.
- 3- AD 84-26-02, installed a new engine air induction paper filter. Next due in 500 hrs TSN.

Page 1 of 2



Tail# N541AJ	Model: Diamond DA-40	S/N: 40.541
Hobbs: 640.6	Total Time: 480.7	Landings: N/A

PERFORMED THE FOLLOWING UNSCHEDULED MAINTENANCE ITEMS

- 1- Installed a new gascolator filter.
- 2- Replaced the pilot side storm window latch.
- 3- Upgraded the Garmin G1000 software to version 22.
- 4- Replaced the Garmin configuration module with a new unit P/N 011-00979-00.

THE ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. #. LS09-2224

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES FOR AN INSPECTION PROGRAM REQUIRED BY FAR 91.409 (a), AND IS APPROVED FOR RETURN TO SERVICE.

AUTHORIZED SIGNATURE

DATE: DEC 1 2009

WEST COAST AIRCRAFT MAINTENANCE, 2881 E. Spring Street Long Beach CA 90806 FAA CRS GSPR467E

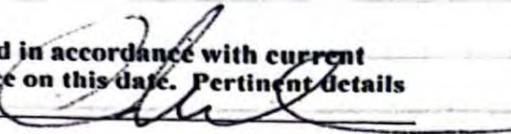
TIME	TOTAL			
	HRS.	MIN.	HRS.	MIN.
GHT				

Security Aviation
 12016 S. Prairie Ave
 Hawthorne, CA 90250
 FAA Approved Repair Station MH3R684L

Model DA 40
 S/N: 40.541
 Reg No. N541AJ
 AFTT 496.7

Date: February 12, 2010
 W/O # 853866
 Hobbs Time: 664.6

1. Installed XeVision HID Lighting System in left wing in accordance with data contained in STC SA01782SE. Generated form 337 this date reflecting this alteration, Updated weight and balance and equipment list

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service on this date. Pertinent details are on file at this agency. Date: 02/12/2010 Signed: 

END

N541AJ
 Total Time:
 639.9

SN: 40.541
 Hobbs Time:
 833.3

Diamond DA40
 Date:
 4/30/2011

COMPLIED WITH THE FOLLOWING INSPECTIONS:

1. Annual Inspection using the Diamond DA40 AMM as a guide.
2. 12 month ELT inspection and functional check IAW FAR 91.207 (d). Battery expires 3/2015.
3. 12 month fire extinguisher inspection.

COMPLIED WITH THE FOLLOWING LUBRICATION SCHEDULES:

1. 100 hour lubrication schedule.

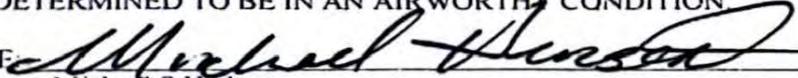
PERFORMED THE FOLLOWING SCHEDULED MAINTENANCE ITEMS:

1. Serviced and charged main ship battery IAW Concorde ICA.

PERFORMED THE FOLLOWING MAINTENANCE:

1. Complied with 5 year replacement of aircraft rudder cables.
2. Complied with AD 10-25-01 Replacement of rear passenger door retaining bracket.
3. Complied with AD 08-14-07 Inspection of external fuel injection lines. Next due Tach: 739.9
4. AD's checked through Tdata release No. 2011-09.

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

SIGNATURE:  AP31535611A
 Michael S Herbert

Date 4/30/2011.

N541AJ
Total Time:
639.9

SN: 40.541
Hobbs Time:
833.3

Diamond DA40
Date:
4/30/2011

COMPLIED WITH THE FOLLOWING INSPECTIONS:

1. Annual Inspection using the Diamond DA40 AMM as a guide.
2. 12 month ELT inspection and functional check IAW FAR 91.207 (d). Battery expires 3/2015.
3. 12 month fire extinguisher inspection.

COMPLIED WITH THE FOLLOWING LUBRICATION SCHEDULES:

1. 100 hour lubrication schedule.

PERFORMED THE FOLLOWING SCHEDULED MAINTENANCE ITEMS:

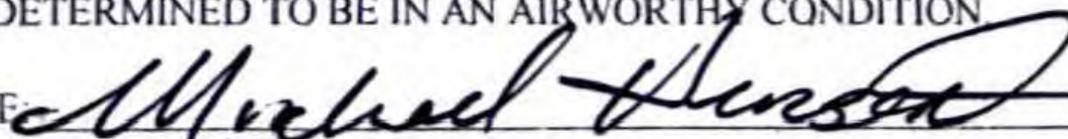
1. Serviced and charged main ship battery IAW Concorde ICA.

PERFORMED THE FOLLOWING MAINTENANCE:

1. Complied with 5 year replacement of aircraft rudder cables.
2. Complied with AD 10-25-01 Replacement of rear passenger door retaining bracket.
3. Complied with AD 08-14-07 Inspection of external fuel injection lines. Next due Tach: 739.9
4. AD's checked through Tdata release No. 2011-09.

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

SIGNATURE:


Michael S Herbert

AP31535611A

Date 4/30/2011.

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT <small>ES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.</small>	SIGNATURE	LICENCE NUMBER
--	-----------	----------------

N541AJ	SN: 40.541	Diamond DA40
Total Time: 666.9	Hobbs Time: 865.9	Date: 8/5/2011

PERFORMED THE FOLLOWING MAINTENANCE:

1. Removed ACK Technologies ELT Model E-01 and antenna. Installed ACK Technologies ELT Model E-04 and antenna and connected GPS interface. Performed a satisfactory operational check of ELT system IAW FAR 91.207 (d). All work accomplished IAW the ACK Model E-04 ELT Installation Manual and the G1000 System Maintenance Manual, Diamond DA40/DA40F. Both ELTs approved under FAA TSO C-91a. This is considered a minor alteration as ELT and antenna are mounted in factory locations with no airframe alteration required.
2. Cleaned and seated G1000 system connector numbers P2407 and P2401 to correct intermittent OAT indication failure. Performed a satisfactory operational check of the G1000 system IAW the G1000 system maintenance manual, Diamond DA40/DA40F.

3. THE ABOVE MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER W.O.# LS11-2414.

AUTHORIZED SIGNATURE: *Michael Benson*
 West Coast Aircraft Maintenance, 2881 E Spring St, Long Beach, CA 90806 CRS # GSPR467E

Atlas Instruments - FAA Repair Station #OD9R049Y

I certify that the Altimeter and Static System tests required by FAR 91.411 have been performed and found to comply with 14 CFR Part 43, Appedix "E". Altimeter has been tested to 20,000 feet.
 W/O 2-1952 Model 01-0077-03 Serial # 47801606
593440-3 434355
 Certified Authority _____ Date 12-27-12

Atlas Instruments - FAA Repair Station #OD9R049Y

I certify that the Transponder has been tested in accordance with FAR 91.413 and has been found to comply with 14 CFR Part 43, Appedix "F".
 W/O 2-1952 Model 01-0079-00 Serial # 84701354
 Certified Authority _____ Date 12-27-12

Pacific Coast Aero, LLC
 3325 Airport Dr. #6 Torrance, CA 310-530-0018

N541AJ	Tach:810.9
Diamond DA40	ATT:810.9
S/N 40.541	Dec. 28, 2012

Opened inspection access panels, inspected & lubed flight controls, push/pull rods, hinges & bell cranks. Performed ELT impact test I.A.W. FAR 91.207(d) checked satisfactory. ELT batteries expire Jan. 2016. Inspected brake calipers, disc & wheels. Cleaned, inspected & repacked wheel bearings. Replaced right brake linings with new. Inspected & cleaned fuel strainer. Cleaned aircraft underbelly & exterior.

I certify that this AIRFRAME has been inspected I.A.W. annual inspection & was determine to be in an airworthy condition. AD's checked thru 2012-23.

Hector Hernandez
 Hector Hernandez A&P6181089571A

Pacific Coast Aero, LLC
 3325 Airport Dr. #6 Torrance, CA 310-530-0018
 April 5, 2013
 Removed & replaced faulty dual potentiometer with new, P/N KKS3U5021R24.
 Performed operational check, checked satisfactory.
 Hector Hernandez A&P6181089571A

N541AJ

Pacific Coast Aero, LLC

3325 Airport Dr.#6 Torrance, CA 310-530-0018

N541AJ

Diamond DA40

S/N 40.541

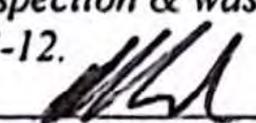
Tach:923.6

ATT:923.6

June 27, 2014

Opened inspection access panels, inspected & lubed flight controls, push/pull rods, hinges & bell cranks. Performed ELT impact test I.A.W. FAR 91.207(d) checked satisfactory. ELT batteries expire Jan. 2016. Inspected brake calipers, disc & wheels. Cleaned, inspected & repacked wheel bearings. Inspected & cleaned fuel strainer. Replaced fuel strainer packing seal with new, P/N GA735, checked for leaks, none noted. Cleaned aircraft underbelly & exterior.

I certify that this AIRFRAME has been inspected I.A.W. annual inspection & was determine to be in an airworthy condition. AD's checked thru 2014-12.


Hector Hernandez A&P6181089571A

Pacific Coast Aero, LLC

3325 Airport Dr.#6 Torrance, CA 310-530-0018

N541AJ

Aug. 26, 2014

Fabricated & installed 2-wire battery charger connection harness using MIL-W-22759/16 wire with 10A inline circuit protection fuse. Attached to aircraft battery with ring terminals. Terminated opposite end with Anderson SB50 plug & secured. All work IAW AC43.13/1B. Verified continuity, polarity, tested with charger & for proper aircraft electrical system operation. No defects noted at this time.


Hector Hernandez A&P6181089571A

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
<p>TACH: 908-7 Changed oil & oil filter - Added 425/15 Tote of Phillips RC 20W60 & Installed Champion oil filter OK4710. checked for leaks, none noted <div style="text-align: right;"> H11618100957 </div> </p>		

Atlas Instruments LLC - FAA Repair Station #OD9R049Y

I certify that the Altimeter and Static System tests required by FAR 91.411 have been performed and found to comply with 14 CFR Part 43, Appendix "E".

Altimeter has been tested to 29,000 feet.

W/O 3-1246 Model GD-74A Serial # 4784600
5934PD-3 434355

Certificated Authority [Signature] Date 5-27-16

Atlas Instruments LLC - FAA Repair Station #OD9R049Y

I certify that the Transponder has been tested in accordance with FAR 91.413 and has been found to comply with 14 CFR Part 43, Appendix "F".

W/O 3-1246 Model GT33 Serial # 84701354

Certificated Authority [Signature] Date 5-27-16

(562) 322-4841 www.atlasinstruments.net

N541AJ

DATE: 9/16/2015
A/C TSN: 10058
TACH:

Removed Concorde RG24-15M serial 40254944. Charged at 28.5 volts per Concorde CMM 5-0171 section 24-30-71 paragraph 8. Reinstalled battery per Diamond DA-40 AMM section 24-31-00, page 202, paragraph 3 B.

This aircraft, airframe, or appliance identified above has been repaired and/or inspected in accordance with current Regulations of the Federal Aviation Administration and Manufacturer data and is approved for return to service.

DATE: 9/16/2015

SIGNED:

Jeff Farrell
Certified Repair Station No. 1HGR0588

Work Order: 20150914-2A

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Hangar One Avionics
Repair Station No. 1HGR0588
2026 Palomar Airport Road
Carlsbad, CA 92011
Phone: 760-929-2270

MAKE: Diamond
MODEL: DA 40
S/N: 40541
REG. NO: N541AJ
WORK ORDER:
20150914-2A

Airframe Entries

Pacific Coast Aero, LLC
3325 Airport Dr. #6 Torrance, CA 310-530-0018

N541AJ
Diamond DA40
S/N 40.541

Tach: 1043
ATT: 1043
June 2, 2016

Opened inspection access panels, inspected & lubed flight controls, push/pull rods, hinges & bell cranks. Removed & replaced ACK ELT battery with new, P/N E-04.0. Performed ELT test I.A.W. FAR 91.207(d) checked satisfactory. ELT batteries expire June 2021. Inspected brake calipers, disc & wheels. Cleaned, inspected & repacked wheel bearings. Inspected & cleaned fuel strainer. Replaced fuel strainer packing seal with new, P/N GA735 & checked for leaks, none noted. Inspected exterior lights, checked OK. Cleaned aircraft underbelly & exterior.

I certify that this AIRFRAME has been inspected I.A.W. annual inspection per FAR part 43/appendix D & was determine to be in an airworthy condition. AD's checked thru 2016-16.

Hector Hernandez A226181089571A

AIR TIME AND

Pacific Coast Aero, LLC
3325 Airport Dr. #6 Torrance, CA 310-530-0018

ENGINEERING RECORD
EIGHTH PAGES AND AS MANY LINES AS REQUIRED FOR

N541AJ **Tach: 1092.3**
Diamond DA40 **ATT: 1092.3**
S/N 40.541 **Aug. 9, 2017**

Opened inspection access panels. inspected & lubed flight controls. push/pull rods, hinges & bell cranks. Performed ELT test I.A.W. FAR 91.207(d) checked satisfactory. ELT battery expires June 2021. Inspected brake calipers, disc & wheels. Cleaned, inspected & repacked wheel bearings. Removed & replaced fuel filter with new P/N GAS375 & seal with new. P/N GAS370. Checked for leaks. none noted. Inspected exterior lights. checked OK. Cleaned aircraft underbelly & exterior.

Performed annual inspection I.A.W. with FAR part 43 Appendix D & was determine to be in an airworthy condition. AD's checked thru 2017-15.
Hector Hernandez: A&P 611789571A

MAKE: Diamond
MODEL: DA 40
S/N: 40.541
REG. NO: N541AJ
WORK ORDER:
20140609-1A



Hangar One Avionics
Repair Station No. 1HGR0588
2026 Palomar Airport Road
Carlsbad, CA 92011
Phone: 760-929-2270

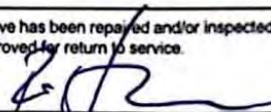
DATE: 6/16/2014
A/C TSN:
HOBBS: 1163.4

Avionics Entries

Customer reports the PFD shows OAT and TAS flagged. Ramp tested system and duplicated the problem intermittently. Also found the Airspeed and Altitude would flag intermittently as well, then all parameters would operate normally. Accessed system configuration pages and noted an ADC Fail on the status page, but upon returning to normal PFD mode the system would operate normally. Contacted Garmin tech support on the issue to obtain the aircraft installation manual, and researched drawings. Troubleshot problem by accessing the GDC-74A (ADC) and GTP-59 (Temp Probe) connectors and verified proper connection, re-seated connectors and re-tested with no effect noted. Verified wiring continuity between the temp probe, ADC, and GDC-74A config module. In accordance with the G-1000 manual troubleshooting procedure, installed known good config module and temp probe temporarily, with no effect noted. Removed GDC-74A P/N 011-00882-00 S/N 47801606 and installed overhauled condition exchange unit P/N 011-00882-00 S/N 47807398 (ref. FAA form 8130-3 dated 5 June, 2014 completed by Garmin International under WO# 3498141). Loaded GDC-74A software and certified ADC per FAR 43 Appendix E and tested system for proper operation per Garmin G1000 System Maintenance Manual-Diamond DA40 section 7.6 procedures. Re-assembled all interior and components removed for troubleshooting access and verified proper operation. No negative results were observed.

This aircraft, airframe, or appliance identified above has been repaired and/or inspected in accordance with current Regulations of the Federal Aviation Administration and Manufacturer data and is approved for return to service.

DATE: 6/16/2014

SIGNED: 

Work Order: 20140609-1A

Richard Herrera
Certified Repair Station No. 1HGR0588

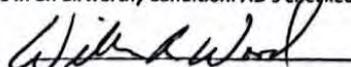
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Pacific Coast Aero, LLC
3325 Airport Dr. #6, Torrance CA 310-530-0018

N541AJ **Tach: 1152.6**
Diamond DA40 **AFTT: 1152.6**
S/N 40.541 **Dec. 20, 2018**
Airframe

Opened inspection access panels, inspected & lubed flight controls, push/pull rods, hinges & bell cranks. Installed new Flasher power supply in left wing P/N 01-0770062-05, tested OK. Performed ELT impact test I.A.W. FAR 91.207(d) checked satisfactory. ELT batteries expire Jun. 2021. Inspected brake calipers, disc & wheels. Cleaned, inspected & repacked wheel bearings. Inspected & cleaned fuel strainer, checked for leaks, none noted. Cleaned aircraft underbelly & exterior.

I certify that this AIRFRAME has been inspected I.A.W. annual inspection & was determine to be in an airworthy condition. AD's checked thru 2018-26.


William R Wood A&P 2767789 IA

CARRIED FORWARD

ENGINEERING RECORD

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

SIGNATURE

LICENCE NUMBER

Alpha Avionics LLC FAA Approved Repair Station #SW6R338X

The Altimeter System and Automatic Pressure Altitude Reporting Equipment have been inspected to 20,000 feet and were found to comply to FAR 43 Appendix E and F. [] Scale error adj.

N# 541 AS Date 3/4/20 Signature [Signature]

MR-1

Alpha Avionics LLC FAA Approved Repair Station #SW6R338X

The Transponder System has been inspected and was found to comply with FAR 43 Appendix F.

N# 541 AS Date 3/4/20 Signature [Signature]

MR-2

Pacific Coast Aero, LLC

3325 Airport Dr. #6, Torrance CA 310-530-0018

N541AJ

Diamond DA40

S/N 40.541

Airframe

Tach: 1174.9

AFTT: 1174.9

Mar. 09, 2020

Opened inspection access panels, inspected & lubed flight controls, push/pull rods, hinges & bell cranks. Performed ELT impact test I.A.W. FAR 91.207(d) checked satisfactory. ELT batteries expire Jun. 2021. Inspected brake calipers, disc & wheels. Cleaned, inspected & repacked wheel bearings. Inspected & cleaned fuel strainer, checked for leaks, none noted. Replaced Garmin back-up battery with new P/N D41-2560-93-00. Cleaned aircraft underbelly & exterior.

I certify that this **AIRFRAME** has been inspected I.A.W. annual inspection & was determine to be in an airworthy condition. AD's checked thru 2020-04.

[Signature]
 William R Wood A&P 2767789 IA

D & G Aero, LLC

Greg Bloomstadt
 Torrance Airport Hangar 2743R
 Cell: 310-463-8506

Reg: N541AJ Hobbs Time: N/A Tach Time: 1174.9
 Date: 7/15/2020 Total Time: 1174.9 Time SMOH: N/A

Removed existing transponder, installed Garmin GTX345R ADSB in/out transponder s/n 3EH440345 at same location. Installed Garmin GA35 WAAS GPS antenna in empennage. Install accomplished in accordance with Garmin TSO installation manual and standard practices as outlined in AC43-13. Interfaced, configured and ground tested. Ok for return to service.

[Signature]
 Greg Bloomstadt - A&P 3512799 IA

Alpha Avionics LLC FAA Approved Repair Station #SW6R338X

The Transponder System has been inspected and was found to comply with FAR 43 Appendix F.

N# 541 AS Date 7/15/2020 Signature [Signature]
 MR-2

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 CO</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					<p style="text-align: center;">Pro Air Aviation LLC Hangar 18, Roanoke Blacksburg Regional Airport, Roanoke, VA 24012</p> <p>8/20/2022 N541AJ Hobbs:1293.9 DA40-180 S/N 40-541</p> <p>Replaced nose wheel inner tube with a new Aero Classic P/N GL-1526B butyl rubber inner tube.</p> <p>This aircraft is approved for return to service for the above listed work.</p> <p style="text-align: right;"><i>James Stanger</i> James Stanger A&P2153204</p>
CARRIED FORWARD					

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 CO.</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

Pro Air Aviation LLC Hangar 18, Roanoke Blacksburg Regional Airport, Roanoke VA, 24012

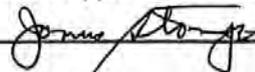
6/03/2023, N541AJ, Diamond DA 40, S/N 40-541 Aircraft Total Time 1356.4

The following work was performed referencing the Diamond DA40 Maintenance Manual DOC # 6.02.01 rev 9. Removed all wheels, cleaned and greased bearings. Replaced Left and Right tires with Michelin P/N 070-449-0 size 15X6.0 6 ply and replaced inner tubes with Michelin Airstop P/N 097-500-0 size 15-6.0-6. Replaced left and right brake caliper piston o-rings with new MS28775-224, bled air from brake lines and filled brake reservoirs with 5606 fluid. Lubricated all flight control hinges and bearings. Cleaned the fuselage fuel filter and replaced the P/N ORO375 bowl o-ring with new. Replaced NLG Stop Sheet P/N D41-3223-00-51 and NLG Stops P/N D41-3223-30-32 with new parts. Performed ACK Technologies ICA instructions in sections 9 and 10 of manual P/N: E04M Date 02/22/2012 Rev 1.6, and also on the ACK RCPI panel indicator referencing Section 4 of same manual. ACK ELT batter pack replacement due date is 4/18/2026. The expiration date of the Emergency Battery pack P/N: D41-2560-93-00 is 5/2029, battery voltage at 39.5. Verified installation of copper safety wire and seal on the emergency switch hood and the passenger emergency release lever. The ICA inspections in chapter 4 on the Essential Bus are due next by 2270.9 hrs, and the Emergency Battery replacement is due next by 5/31/2024.

AD2014-13-08 eff date 8/27/2014 Aft Main Spar Inspection is Due by 2000 hrs TIS or 2/27/2024 whichever occurs first. Performed **AD2015-19-07** eff date 11/3/2015 Inspection of the fuel injector fuel lines and clamps using Lycoming MSB342G, due again by TT 1466.4 or next disturbance of the line clamps. **AD93-05-06** eff date 04/29/93 ACS ignition switch inspection due by 2000 TIS. **AD22-13-09** eff date 08/11/22 Baggage Net Buckles is N/A due to date of manufacture of 5/16/2005, no further action required.

Inspected and tested ELT Model E-04, S/N 001379, and found it meets the requirements of FAR 91.207 (d), ELT battery due date is 4/16/2026.

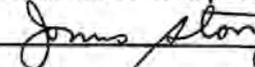
This Aircraft is approved for return to service for the above referenced items.

 James Stanger A&P 2153204 Pro Air Aviation LLC

Pro Air Aviation LLC Hangar 18, Roanoke Blacksburg Regional Airport, Roanoke VA, 24012

6/03/2023, N541AJ, Diamond DA 40, S/N 40-541 Aircraft Total Time 1356.4

I certify this aircraft has been inspected I/A/W an Annual Inspection and was found to be in an airworthy condition.

 James Stanger IA 2153204 Pro Air Aviation LLC

 <p>Freedom Aviation 310 Hangar Road Lynchburg, VA 24502 (434) 237-8434 CRS# BGSR439C</p>	<p>Date: 07/11/2023 Aircraft: N541AJ Type: DA40 SN: 40.541 Hobbs: 1725.1 WO: A23-0282</p>
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Airframe Entries

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

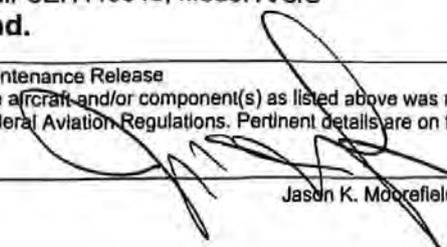
Altimeter was tested to 20,000 Ft.
Altitude reporting system test to 20,000 Ft.

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

Make/Model GTX345R
SN# 3EH440345; Mode: A/C/S

End.

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


 Jason K. Moorefield CRS# BGSR439C

ENGINEERING RECORD

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

SIGNATURE

LICENCE
NUMBER

Pro Air Aviation LLC Hangar 18, Roanoke Blacksburg Regional Airport,
Roanoke, VA 24012

9/22/2023, N541AJ, Tach: 1369.8

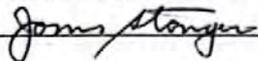
Replaced the electric fuel pump with a new CJ Aviation Products P/N 5100-00-9CJ, S/N MC00048. Replaced the panel mounted electric fuel pump switch with a new OTTO P/N K1ACAAAAAA switch. Work performed referencing sections 20-30 and 28-20-00 In Diamond DOC # 6.02.01. This aircraft is approved for return to service for work performed.



James Stanger A&P 2153204
Pro Air Aviation LLC

2/20/2024, N541AJ, Tach: 1398.7, DA40-180 S/N 40-541

Replaced the alternator brush holder assembly with a new assembly P/N ALU-3045BS. Alternator load check normal upon run up. This engine approved for return to service for work performed.



James Stanger A&P2153204
Pro Air Aviation LLC

Pro Air Aviation LLC Hangar 18, Roanoke Blacksburg Regional Airport, Roanoke VA, 24012

7/1/2024, N541AJ, Diamond DA 40, S/N 40-541 Aircraft Total Time 1423.5

The following work was performed referencing the Diamond DA40 Maintenance Manual DOC # 6.02.01 rev 10.

Serviced brake reservoirs with 5606 fluid. Lubricated all flight control hinges and bearings. Cleaned the fuselage fuel filter.

Performed ACK Technologies ICA instructions in sections 9 and 10 of manual P/N: E04M Date 02/22/2012 Rev 1.6, and also on the ACK RCPI panel indicator referencing Section 4 of same manual. Installed a new Duracell CR-2 3 volt lithium battery with expiration date of 3/2032 into the ACK E-04 Audio Alert Indicator. ACK ELT batter pack replacement due date is 4/18/2026. The expiration date of the Emergency Battery pack P/N: D41-2560-93-00 is 5/2029, battery voltage at 39.5. Verified installation of copper safety wire and seal on the emergency switch hood and the passenger emergency release lever. The ICA inspections in chapter 4 on the Essential Bus are due next by 2270.9 hrs. Installed new Concord battery P/N RG24-15M S/N 41369575. Diamond MAM 40-398 has been installed.

AD93-05-06 eff date 04/29/93, ACS ignition switch inspection is due by 2000 TIS.

AD2014-13-08 eff date 8/27/2014, C/W par (f)(1) application of layered impregnated reinforcement patches on aft main spar using drawing D41-5313-02-00_2, and document WI-MSB 40-074. No further action required at this time.

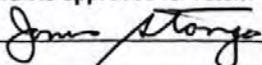
AD2015-19-07 eff date 11/3/2015, C/W, Inspected the fuel injector fuel lines and clamps using Lycoming MSB342G, due again by TT 1533.5 or next disturbance of the line clamps.

AD22-13-09 eff date 08/11/22, Baggage Net Buckles is N/A due to date of manufacture of 5/16/2005. No further action required.

AD23-09-09 eff date 7/17/2023, N/A, no turbo charger tailpipe or V-Band couplings installed. No further action required.

Inspected and tested ELT Model E-04, S/N 001379, and found it meets the requirements of FAR 91.207 (d), ELT battery due date is 4/16/2026.

This Aircraft is approved for return to service for the above referenced items.

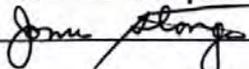


James Stanger A&P 2153204 Pro Air Aviation LLC

Pro Air Aviation LLC Hangar 18, Roanoke Blacksburg Regional Airport, Roanoke VA, 24012

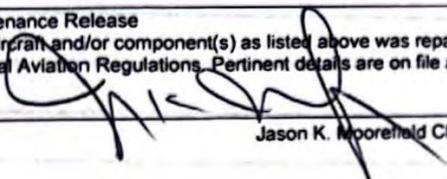
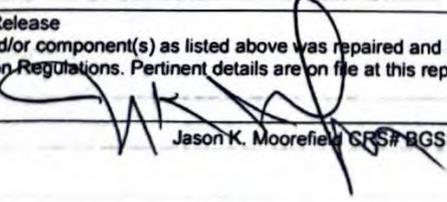
7/1/2024, N541AJ, Diamond DA 40, S/N 40-541 Aircraft Total Time 1423.5

I certify this aircraft has been inspected I/AW an Annual Inspection and was found to be in an airworthy condition.



James Stanger IA 2153204 Pro Air Aviation LLC

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT	SIGNATURE	LICENCE NUMBER
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		
<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;">  <p>Freedom Aviation 310 Hangar Road Lynchburg, VA 24502 (434) 237-8434 CRS# BGSR439C</p> </div> <div style="text-align: center;"> <p>Date: 06/04/2025 1 Aircraft: N541AJ Type: DA-40 SN: 40.541 Hobbs: 1916.4 WO: A25-0120</p> </div> </div> <p>Airframe Entries I certify that this altimeter system, static system test required by 14 CFR 91.411 have been performed and comply with 14 CFR part 43 Appendix E. Altimeter was tested to 20,000Ft. Altitude reporting system test to 20,000Ft.</p> <p>I certify that this transponder test required by 14 CFR 91.413 have been performed and found to comply with 14 CFR Part 43, Appendix F. Make/Model: GTX345R SN: 3EH440345; Mode: A/C/S Continued</p> <p>Maintenance Release The aircraft and/or component(s) as listed above was repaired and inspected in accordance with current Federal Aviation Regulations. Pertinent details are on file at this repair station.</p> <div style="text-align: center; margin-top: 10px;">  Jason K. Moorefield CRS# BGSR439C </div>		
<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;">  <p>Freedom Aviation 310 Hangar Road Lynchburg, VA 24502 (434) 237-8434 CRS# BGSR439C</p> </div> <div style="text-align: center;"> <p>Date: 06/04/2025 2 Aircraft: N541AJ Type: DA-40 SN: 40.541 Hobbs: 1916.4 WO: A25-0120</p> </div> </div> <p>Airframe Entries Attempted to perform the compass calibration procedure and the compass would not calibrate. Removed the glareshield and found that the ACK ELT remote piezo horn was mounted too close to the compass. Relocated the ACK ELT Remote piezo and secured away from the compass. Completed the compass calibration using a master compass using the swing method as per AC43-215. Installed updated compass correction card on the instrument panel.</p> <p>Tested the KAP140 autopilot with no defects noted. Entered the KAP140 autopilot calibration mode and found only one instance of error code 91 which is associated with the Turn and Bank or the KC140 computer. Removed the connectors, cleaned, and resealed on the Turn and Bank and the KC140 autopilot. The KAP140 autopilot system ramp checked good. This work performed with reference to the KAP140 autopilot LMM# 006-15574-0002. End.</p> <p>Maintenance Release The aircraft and/or component(s) as listed above was repaired and inspected in accordance with current Federal Aviation Regulations. Pertinent details are on file at this repair station.</p> <div style="text-align: center; margin-top: 10px;">  Jason K. Moorefield CRS# BGSR439C </div>		

