

...-1 S/N  
42.AC039

# AIRCRAFT TECHNICAL LOGS

Section 1. AIRFRAME

AIRCRAFT

1. Nationality and Registration N424RP
2. Manufacturer's Designation DA 42
3. Manufacturer's Serial Number 42.AC039
4. Type Approval or Specification Number A57CE
5. Date of Manufacture 2007
6. Aircraft Inspection Cycle \_\_\_\_\_

## CALIBRATION CARD ALTIMETER

P/N: 5934PD-3		C/N: A.130		S/N: 459395	
Standard Alt (Ft)	Alt Reading (Ft) @ Room Temp	Standard Alt (Ft)	Alt Reading (Ft) @ Room Temp		
-1,000	-10	14,000	-40		
0	-10	16,000	-35		
500	-10	18,000	-35		
1,000	-5	20,000	-20		
1,500	-5	22,000			
2,000	0	25,000			
3,000	0	30,000			
4,000	0	35,000			
6,000	-10	40,000			
8,000	-35	45,000			
10,000	-30	50,000			
12,000	-40				
Date: 12-13-06		Tested By:		Inspected By: 	

# 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

**Diamond**

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

SERIAL NUMBER

REGISTRATION MARK

42.AC039

N424RP

DATE

06 February, 2007

INSPECTOR

DA  
Q 42

**Diamond**

05 FEB 2007 S/N 42.AC039  
COMPASS DEVIATION, ALL ELECTRICS ON

FOR	N	30	60	E	120	150
STEER	001	031	060	089	118	148
FOR	S	210	240	W	300	330
STEER	180	211	240	270	300	330

**Diamond**

INDEPENDENT CHECK OF FLIGHT AND POWERPLANT CONTROLS

DATE

06 February, 2007

INSPECTOR

DA  
Q 60

*[Signature]*

FEB 06 2007	0	0	0	0	AIRCRAFT SERVICEABLE FOR FLIGHT
FEB 06 2007			1.	5	
FEB 07 2007			1.	5	AIRCRAFT SERVICEABLE FOR FLIGHT
FEB 07 2007			3.	1	
FEB 10 2007			3.	1	AIRCRAFT SERVICEABLE FOR FLIGHT
FEB 10 2007			4.	7	
FEB 12 2007			4.	7	AIRCRAFT SERVICEABLE FOR FLIGHT
FEB 12 2007			5.	0	
FEB 16 2007			5.	0	ALL DISCREPANCIES RECTIFIED

**Diamond**

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

FEB 16 2007

INSPECTOR

DA  
Q 42

*[Signature]*

5, 0

CARRIED FORWARD





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

SIGNATURE

NUMBER

DA  
Q 42

MAKE Diamond  
MODEL DA-42  
S/N 42 AC039  
REG NO. 424RP  
WORK ORDER:  
1744-01-2008



**Premier Aircraft Service, Inc.**

5540 NW 23rd Avenue Hanger 14  
Fort Lauderdale, FL 33309  
Phone: (954) 334-2393

DATE: 1/25/2008  
A/C TSN: 41.4  
TACH: 41.4

**Airframe Entries**

COMPLIED WITH MSB-42-055  
WATER CIRCULATION INSTALLATION. NO DEFECTS NOTED AT TIME... COMPLIED WITH OSB42-050/1. INSTALLED  
BACKUP BATTERIES KIT. PERFORMED GROUND TEST IN ACCORDANCE WITH OSB42-050/1, NO DISCREPANCIES OR  
FAULTS NOTED. REVISE POH AND WEIGH AND BALANCE.... C/W ANNUAL INSPECTION IAW FAR 43 APPENDIX D AND  
DIAMOND DA42 MM INSPECTION GUIDE CHAPTER 5. PERFORMED INSPECTION AND FUNCTIONAL CHECK OF ELT IAW  
FAR 91.207 d EXP DATE SEP 2011.

A&P 2761974

MECH ADRIAN ARIAS

SIGN

I certify this aircraft has been inspected in accordance with an Annual inspection and found to be in airworthy condition on this date. Approved for return to service on this date. THIS RELEASE IN NO WAY CERTIFIES FUTURE AIRWORTHINESS

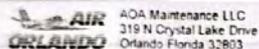
DATE: 1/25/2008

SIGNED:

Work Order: 1744-01-2008

Jack Wesley Dale, IA 456967085

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Tuesday, 11 November, 2008

N424RP TACH: 65.9  
S/N 42.AC039  
MODEL: DA42

AD 2008-16-20 COMPLIED WITH BY MSB-42-043/1 USING KIT PN MSB-42-043-KIT  
REMOVED AND REPLACED MAP LIGHT INVERTER PN APVL328-4-1-L-5QF

PAUL STERN  
A&P 3078823

ORLANDO AIRCRAFT SERVICES 601 HUMPHRIES AVE. ORLANDO EXECUTIVE AIRPORT ORLANDO, FL  
LOG ID# 6178 11-November-2008 WO# 109365/1 HOBBS 65.9  
N424RP S/N 42.AC039 DIAMOND DA-42

Pg 1 / 1

REMOVED COMPUTER KC-140 P/N 065-00176-7904 S/N 10965.  
INSTALLED WARRANTY EXCHANGE KC-140 P/N 065-00176-7904 S/N KC140-9773.

2483522 ALLEN OVERLANDER Date 11/11/08

**CERTIFICATE**  
APPROVAL TAG

3. Form Tracking Number:

**AF1259**

R2R093L)

5. Work Order/Contract/Invoice Number:

**AF1259**

Availability:\*

10. Quantity:

11. Serial/Batch Number:

12. Status/Work:

**/A**

**1**

**KC140-9773**

**INSPECTED**

appropriate installation manual.

1. Approving National Aviation Authority/Country: <b>FAA/UNITED STATES</b>		2. <b>AUTHORIZED RELEASE</b> FAA FORM 8130-3, AIRWORTH
4. Organization Name and Address:		<b>Honeywell International, Inc One Technology Center 23500 West 105th Street Olathe, Kansas 66061</b>
6. Item:	7. Description:	8. Part Number:
<b>001</b>	<b>KC 140</b>	<b>065-00176-7904</b>
13. Remarks:  <b>RETURN TO SERVICE</b>  It is the installers responsibility to align unit upon installation per the Tested per OEM document 924-01332-0001 Rev 12: 07/25/03		

# 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					

LOGBOOK ENTRY: DA 42      N424RP      ACTIME: 67.7 hrs  
 THE STATIC PRESSURE SYSTEM, TRANSPONDER WITH ALTITUDE REPORTING WAS IDENTIFIED TESTED AND INSPECTED I/A/W FAR 43 APPENDIX E, PAR A & C, APPENDIX F (FAR 91.413) AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THIS TEST IS ON FILE AT THIS REPAIR STATION UNDER W.O. 9162 DATE MAY 12, 2009

SIGNATURE Mark B. Alencastro      INSP. (MBA)  
**TROPIC RADIO INC. 2695 N.W. 56th ST. HANGER 53-A**  
**FT. LAUDERDALE FL. 33309 FAA APPROVED REPAIR STATION # RZ4R510M**  
**FT. LAUDERDALE EXECUTIVE AIRPORT \*ARCHER RAMP\***  
**TELEPHONE # 954-776-4030      WWW.TROPICRADIO.COM**  
GTX 33 S/N 89103625  
GDC 74 S/N 47807608

CERTIFICATION EXPIRES ON MAY 31, 2011



**TROPIC RADIO INC.**  
 2695 N. W. 56TH ST. HANGER 53-A  
 FT. LAUDERDALE, FL 33309  
 FAA APPROVED REPAIR STATION #RZ4R510M  
 FT. LAUDERDALE EXECUTIVE AIRPORT \*ARCHER RAMP\*  
**PHONE: 954-776-4030**



*Pilots*

**SERVICEABLE**

Make and Model GARMIN DISPLAY UNIT GDU1040  
 Part No: 006-8039-32      Serial No: 0x054C8125  
 Customer: PREMIER A/C Sales  
 Inspected By: (MBA)      Date: MAY 12, 2009  
 The component identified above was inspected and functional tested in accordance with current Federal Aviation Regulations and was found Airworthy for Return to Service.  
 Altimeter Calibrated to 29.00 Ft. I.A.W. FAR PART 43, APP E, (b) (FAR 91.411)  
 Pertinent details of this inspection are on file at this Agency under Work Order # 9162  
 Authorized Representative Mark B. Alencastro  
 Date MAY 12, 2009

**INSPECTION, REPAIRS & REPLACEMENT**

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

SIGNATURE

LICENCE  
NUMBER

MAKE Diamond  
MODEL DA-42  
S/N 42 AC039  
REG NO: 424RP  
WORK ORDER:  
2962-05-2009



**Premier Aircraft Service, Inc.**  
5540 NW 23rd Avenue Hanger 14  
Fort Lauderdale, FL 33309  
Phone: (954) 334-2393

DATE: 7/17/2009  
A/C TSN: 67.7  
TACH: 67.7

**Airframe Entries**

C/W DIAMOND MSB42-062/1 REPLACEMENT OF THE LANDING GEAR DOWN LOCK PIN. OPS CHECKED GOOD ... C/W DIAMOND MSB42-070 INSPECTION OF NLG TUBULAR PIVOT ASSEMBLY. REPLACED NLG TUBULAR PIVOT ASSEMBLY WITH NEW P/N D60-3233-82-00\_1 THEREBY TERMINATING THE REPETATIVE INSPECTIONS. NO FURTHER ACTION REQUIRED. ... REMOVED AND REPLACED EMERGENCY BATTERY PACKAGE WITH NEW PN# D60-2560-91-00 ... REMOVED AND REPLACED LH STROBE TUBE WITH NEW PN# A610. OPS CHECKED GOOD ... CLEANED, TREATED CORROSION ON DOWN LOCK ASSY ON BOTH LH AND RH MAIN GEAR ... PERFORM TKS CERTIFICATION TEST IAW AMM-TR-OAM-42-053A & 054A. OPS CHECKED GOOD ... C/W 100 HR INSPECTION ON THIS AIRFRAME IAW FAR 43 APPENDIX d AND DIAMOND M/M CH 5 100 HOUR INSPECTION GUIDE. C/W FAR 91 207 d ELT INSPECTION AND FUNCTIONAL CHECK. ELT BATTERY EXPIRATION DATE: 9/2011.

I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND FOUND TO BE IN AIRWORTHY CONDITION ON THIS DATE. APPROVED FOR RETURN TO SERVICE. THIS RELEASE IN NO WAY CERTIFIES FUTURE AIRWORTHINESS

DATE: 7/17/2009

SIGNED:

Work Order: 2962-05-2009

JONATHAN RANNEY, IA: 2773237

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MAKE Diamond  
MODEL DA-42  
S/N 42 AC039  
REG NO: 424RP  
WORK ORDER:  
3138-08-2009



**Premier Aircraft Service, Inc.**  
5540 NW 23rd Avenue Hanger 14  
Fort Lauderdale, FL 33309  
Phone: (954) 334-2393

DATE: 8/19/2009  
A/C TSN: 73.5  
TACH: 73.5

**Airframe Entries**

REMOVED AND REPLACED LH AUX TANK FUEL PUMP WITH NEW PN# 5100-00-9 SN# 10198A ... COMPLIED WITH DIAMOND RSB-42-066 AUX TANK CHECK VALVE REPLACEMENT. OPS CHECKED GOOD. NO LEAKS DETECTED ... ADJUSTED NOSE STEERING AS REQUIRED.

This aircraft/engine is approved for return to service with reference to work performed on this W/O on this date. THIS RELEASE IN NO WAY CERTIFIES FUTURE AIRWORTHINESS.

DATE: 8/19/2009

SIGNED:

Work Order: 3138-08-2009

Sam Tavaraz, A&P: 592465919

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MAKE Diamond  
MODEL DA-42  
S/N 42 AC039  
REG NO: 424RP  
WORK ORDER:  
3334-11-2009



**Premier Aircraft Service, Inc.**  
5540 NW 23rd Avenue Hanger 14  
Fort Lauderdale, FL 33309  
Phone: (954) 334-2393

DATE: 11/30/2009  
A/C TSN: 84.1  
TACH: 84.1

**Airframe Entries**

C/W DIAMOND MSB42-063 BY INSPECTION AND REWORKING OF NLG LEG ... REMOVED WORN STORM WINDOW SEALS AND INSTALLED NEW SEALS ON LEFT AND RIGHT STORM WINDOWS.

This aircraft/engine is approved for return to service with reference to work performed on this W/O on this date. THIS RELEASE IN NO WAY CERTIFIES FUTURE AIRWORTHINESS.

DATE: 11/30/2009

SIGNED:

Work Order: 3334-11-2009

Christopher Barcenas, A&P: 2738632

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# RECORD 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 FOR COMPLETE**

**BROUGHT FORWAF**

MAKE Diamond  
MODEL DA-42  
S/N: 42 AC039  
REG NO: 424RP  
WORK ORDER:  
3598-04-2010

**Premier Aircraft Service, Inc.**  
5540 NW 23rd Avenue Hanger 14  
Fort Lauderdale, FL 33309  
Phone: (954) 334-2393

DATE 9/28/2010  
AC TSN: 89 4  
TACH 89 4

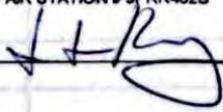
**Airframe Entries**

(3) C/W ANNUAL INSPECTION ON THIS AIRFRAME IAW FAR 43 APPENDIX D AND DIAMOND DA42 M/M CH 5 INSPECTION GUIDE C/W FAR 91 207 D ELT INSPECTION AND FUNCTIONAL CHECK. ELT BATTERY EXPIRATION DATE SEP 2011. ADS CHECKED THROUGH 2010-18 ... (14) REPLACED ECU BATTERIES WITH NEW P/N LC-R127R2P ... (15) REPLACED ALTERNATOR EXCITATION BATTERIES WITH NEW P/N LC-R121R3P ... (20) C/W DIAMOND MSB42-077 CHECK EMERGENCY EXIT LEVER ... (21) C/W DIAMOND MSB42-088 MAIN LANDING GEAR INSPECTION AND REPLACEMENT OF STRUT LINKS. REPLACED RIGHT STRUT TOGGLE LEVER WITH NEW P/N D60-3217-23-51. NO DEFECTS NOTED ON LEFT MLG STRUT TOGGLE LEVER AT THIS TIME ... (23) C/W DIAMOND MSB42-076 FIREWALL INSPECTION AND SEALING. NO FIREWALL HOLES NOTED ... (24) C/W DIAMOND MSB42-074 RE INFORCEMENT OF SUPPORTING STRUCTURE IN NLG BOX. INSTALLED NEW PLATE P/N D60-5340-61-00-SB WITH RESING MIX. RE INSTALLED NLG RETRACT ASSY AND OPS CHECKED GOOD ... (28) C/W DIAMOND RSB42-080 AND INSTALLED ECU RELAY DIODE. TAE ENG ECU CHECK OK IAW THIS SB AND TAE M/M ... (29) C/W DIAMOND RSB42-072 FIRE SENSOR SEAL ON LEFT AND RIGHT ENGINES ... (30) C/W DIAMOND RSB42-036 INSTALLATION OF WATER SEPARATORS IN THE ECU MAP LINES ... (31) REPLACED FINISHING WASHERS ON NLG DOORS WITH NEW ... (32) REMOVED SURFACE CORROSION FROM RIGHT MLG DOOR ACTUATOR ROD END HARDWARE AND TREATED WITH ANTI-CORROSION ... (33) REMOVED SURFACE CORROSION FROM RIGHT MLG STRUT UPPER ATTACHMENT HARDWARE AND TREATED WITH ANTI-CORROSION ... (34) REMOVED CORROSION FROM RIGHT MLG DOWNLOCK HOOK AND ROD ASSY. PRIMED AND PAINTED ROD ASSY AND RE INSTALLED. TREATED WITH ANTI-CORROSION ... (35) REPLACED FWD RETAINING CLIP ON RIGHT MLG DOWNLOCK HOOK ASSY WITH NEW P/N DIN471-10-ZP ... (36) REMOVED SURFACE CORROSION FROM LEFT MLG DOWNLOCK HOOK AND ROD ASSY. TREATED WITH ANTI-CORROSION ... (37) REPLACED FWD RETAINING CLIP ON LEFT MLG DOWNLOCK HOOK ASSY WITH NEW P/N DIN471-10-ZP ... (38) REMOVED SURFACE CORROSION FROM LEFT MLG STRUT UPPER ATTACHMENT HARDWARE AND TREATED WITH ANTI-CORROSION ... (39) REMOVED SURFACE CORROSION FROM LEFT MLG DOOR ACTUATOR ROD END HARDWARE AND TREATED WITH ANTI-CORROSION ... (40) REPLACED LEFT WING SAFETY WALK WITH NEW ... (41) INSTALLED FUEL TANK CAPACITY DECALS ON LEFT AND RIGHT WINGS IAW DA42 M/M ... (42) REMOVED SURFACE CORROSION FROM NOSE STRUT CHROME SECTION ... (44) REMOVED SURFACE CORROSION FROM SHIMMY DAMPENER ROLLER AND RE INSTALLED SHIMMY DAMPENER ASSY. TREATED WITH ANTI-CORROSION ... (45) REMOVED SURFACE CORROSION FROM NLG TORQUE LINK HARDWARE AND TREATED WITH ANTI CORROSION ... (46) REMOVED WORN STORM WINDOW SEALS AND INSTALLED NEW SEALS ON LEFT AND RIGHT STORM WINDOWS ... (48) REPAIRED ACTUATOR ROD ATTACHMENT SCREW HOLES ON REAR CABIN DOOR FRAME AND RE INSTALLED ACTUATOR ROD ASSY ... (61) REMOVED CABIN CANOPY AND SENT OUT FOR REPAIR. REINSTALLED CANOPY AFTER REPAIR BY DIAMOND FACTORY. OPS CHECK NORMAL ... (62) TROUBLE SHOT INSTRUMENT LIGHTS INOP FOUND PANEL LIGHT DC/AC POWER SUPPLY INOP. REPLACED WITH NEW UNIT. PANEL LIGHTS OP CHECK OK IAW DA-42 M/M.

**MAINTENANCE RELEASE** IN REFERENCE TO THE WORK PERFORMED, THIS AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, AND / OR APPLIANCE WAS REPAIRED AND INSPECTED IAW 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.

SIGNED FOR PREMIER AIRCRAFT SERVICE, INC FAA REPAIR STATION # 9PRR402B

DATE: 9/28/2010

SIGNED: 

JONATHAN RANNEY

Work Order: 3598-04-2010

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MAKE Diamond  
MODEL DA-42  
S/N: 42 AC039  
REG NO: 424RP  
WORK ORDER:  
3885-09-2010

**Premier Aircraft Service, Inc.**  
5540 NW 23rd Avenue Hanger 14  
Fort Lauderdale, FL 33309  
Phone: (954) 334-2393

DATE 9/30/2010  
AC TSN: 89 7  
TACH: 89 7

**Airframe Entries**

(2) CLEANED AND INSPECTED ALL ALTERNATOR CONNECTORS AS REQUIRED. ELECTRICAL SYSTEM OPS CHECKED GOOD.

**MAINTENANCE RELEASE** IN REFERENCE TO THE WORK PERFORMED, THIS AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, AND / OR APPLIANCE WAS REPAIRED AND INSPECTED IAW 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.

SIGNED FOR PREMIER AIRCRAFT SERVICE, INC FAA REPAIR STATION # 9PRR402B

DATE: 9/30/2010

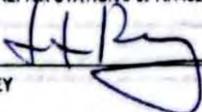
SIGNED: 

JONATHAN RANNEY

Work Order: 3885-09-2010

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# ENGINEERING RECORD

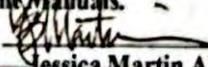
INSPECTION, REPAIRS & REPLACEMENT	SIGNATURE	LICENCE NUMBER
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		
<p>MAKE Diamond MODEL DA-42 S/N 42 AC039 REG NO 424RP WORK ORDER 3886-09-2010</p> <p><b>Premier Aircraft Service, Inc.</b> 5540 NW 23rd Avenue Hanger 14 Fort Lauderdale, FL 33309 Phone: (954) 334-2393</p> <p style="text-align: right;">DATE 9/30/2010 AC TSN 90.1 TACH: 90.1</p> <p><b>Airframe Entries</b> (2) REMOVED AND REPLACED VOLTAGE REG WITH SERVICABLE PN#02-7150-55112R4 SN#1945. OPS CHECKED GOOD.</p> <p>MAINTENANCE RELEASE IN REFERENCE TO THE WORK PERFORMED, THIS AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, AND / OR APPLIANCE WAS REPAIRED AND INSPECTED IAW 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.</p> <p>SIGNED FOR PREMIER AIRCRAFT SERVICE, INC FAA REPAIR STATION # 9PRR402B</p> <p>DATE 9/30/2010      SIGNED:       Work Order: 3886-09-2010 JONATHAN RANNEY      Printed by EBis 3 (datcomedia.com)</p>		



### Airframe

DATE: June 16, 2011      MODEL: Diamond DA42      Tach: 180.0  
REG: N424RP      S/N: 42.AC039

Replaced nose wheel tube with leak guard 5.00x5 tube. Replaced 1 race and 1 bearing, PN 08231\*2-629 and 08125\*2-629. All work done IAW Cleveland and Diamond Maint Manuals.

 3103376  
Jessica Martin AP 3103376

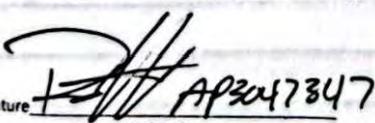


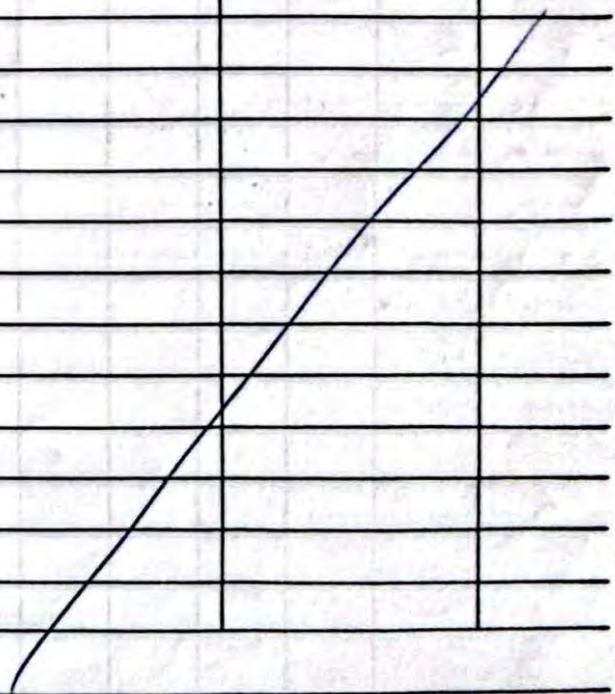
**FRESH AIR maintenance LONG BEACH**  
2901-F E. Spring St., Long Beach, Ca  
562-366-4806  
Cell 562-225-9398

Date : 7/23/11 N424RP S/N: 42.AC039  
Aircraft Total Time: 194.3

1. Bled brake system in reference with Diamond DA42 AMM.
2. Performed operational check with no discrepancies noted at this time.

I certify the above work performed is in airworthy condition at this time and is approved for return to service.

Authorized Signature:  AP2047347  
Raul A. Ortiz



# AIR TIME AND ENGINEERING RECORD

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



BROUGHT FORWARD

Tail# N424RP	Model: DA-42	S/N: 42.AC039
Hobbs: 214.8	Total Time: 214.8	Landings: N/A

**COMPLIED WITH THE FOLLOWING INSPECTION ITEMS**

1- THE 24 MONTH ALTIMETER AND STATIC SYSTEM TEST REQUIRED BY 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		20,000 FEET	
AIR DATA COMPUTER	P/N	011-00882-00	S/N 47807608
STANDBY ALTIMETER	P/N	5934PD-3	S/N 459395

2- THE 24 MONTH ATC TRANSPONDER TESTS REQUIRED BY FAR 91 413 HAVE BEEN PERFORMED AND FOUND TO COMPLY WITH APPENDIX F OF PART 43 OF THIS CHAPTER

TRANSPONDER	P/N 011-00779-10	S/N 89103625
-------------	------------------	--------------

THE ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS11-2468

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.

AUTHORIZED SIGNATURE DATE: 10-4-11  
 WEST COAST AIRCRAFT MAINTENANCE, 2831 E. Spring Street Long Beach CA 90806 FAA CRS GSPR467E

**FRESH AIR maintenance LONG BEACH**  
 2901-F E. Spring St., Long Beach, Ca  
 562-366-4806  
 Cell 562-881-5345

Date : 10/3/11 N424RP S/N: 42.AC039  
 Total Time: 214.8

1. Performed Annual Inspection IAW DA42 AMM Section 05-20-00.
2. R&R ELT Battery pack p/n 452-6499 and inspected IAW FAR 91.207(d). Battery Expires 10/2013. 02/2013. MUA
3. R&R Emergency Battery P/N D60-2560-91-00 IAW DA42 AMM 24-30-00.
4. R&R ECU backup batteries with new p/n LC-R127R2P1.
5. R&R Alternator Excitation Batteries with new p/n LC-R121R3P.
6. R&R RH brake linings with new p/n 066-10500 IAW DA42 32-40-00.
7. Jacked aircraft and checked normal and emergency functions of landing gear.
8. Complied with 100 hour lubrication IAW DA42 AMM.
9. AD 2011-11-07 (Landing gear trailing arm link) Inspected link IAW Diamond MSB 42-088/2 as described in paragraph (f) of this AD. No discrepancies noted at this time. Landing gear link must be replaced within 100 hours TIS after July 6, 2011 as described in paragraph (f)(1) of this AD.
10. AD 2011-10-13 (Passenger door retaining bracket) n/a by p/n.
11. ADs current to biweekly revision 2011-20.
12. Performed ground run operational check with no discrepancies noted at this time.

I certify this aircraft has been inspected IAW Diamond AMM Annual/100Hr Inspection, is in airworthy condition and is approved for return to service.

AUTHORIZED SIGNATURE   
 Michael Herbert AP3153561 IA

Date : 10/3/11 N424RP S/N: 42.AC039  
 Total Time: 214.8

1. Performed post 100 hour test flight IAW DA42 AMM 05-20-00.
2. Performed operational check on all systems with no discrepancies noted at this time.

I certify this aircraft has been test flown in reference with Diamond DA42 AMM and all systems checked good at this time.

AUTHORIZED SIGNATURE   
 2025770 CF1 X S/2013

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

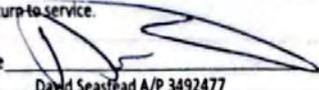
LICENCE NUMBER

  
**FRESH AIR maintenance LONG BEACH**  
 2901-F E. Spring St., Long Beach, CA  
 562-366-4806  
 Cell 562-881-5345

Date: 12/1/11 N424RP S/N: 42.AC039  
 Total Time: 233.3

- AD 2011-11-07 (Landing gear trailing arm link) replaced links IAW Diamond MSB 42-088/2.

I certify the above work has been performed IAW Diamond DA42 AMM, is in airworthy condition and is approved for return to service.

Authorized Signature   
 David Seastead A/P 3492477

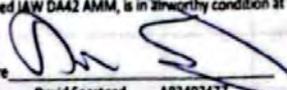


**FRESH AIR maintenance LONG BEACH**  
 2901-F E. Spring St., Long Beach, Ca  
 562-366-4806  
 Cell 562-881-5345

Date: 3/15/12 N424RP S/N: 42.AC039  
 Tach: 256.9

- R&R both main tires and tubes IAW DA42AMM 32-40.

I certify the work above was performed IAW DA42 AMM, is in airworthy condition at this time and is approved for return to service.

Authorized Signature   
 David Seastead AP3492477

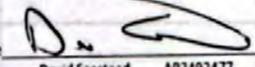


**MXdiamond**  
 2901 F E. Spring St., Long Beach, CA  
 562-366-4806  
 Cell 562-881-5345

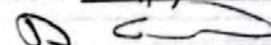
Date: 9/8/12 N424RP S/N: 42.AC039  
 Tach: 296.4

- Performed 100Hr Inspection using DA42 AMM as a guide.
- Inspected ELT IAW FAR 91.207(d) Battery Expires 2/18
- Inspected emergency battery IAW DA42 AMM 24-30-00. Battery Expires 10/13.
- Replaced fuel filters IAW DA42 AMM 28-20-00.
- Complied with 100 hour lubrication IAW Diamond DA42 AMM 12-20-00.
- ADs current to biweekly revision 2012-16.
- Performed ground run operational check.

I certify the work above has been performed IAW DA42 AMM, is in airworthy condition and is approved for return to service.

Authorized Signature   
 David Seastead AP3492477

Installed Micro Vortex Generators per  
 STC #SA02226SE. Refer to Form 337  
 this date: 11/12/12

  
AP3492477

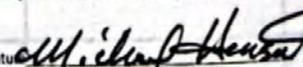


**MXdiamond**  
 2901-F E. Spring St. Long Beach, CA 90806  
 Main: 562.989.9495  
 Cell: 562.881.5345

Date: 11/13/12 N424RP S/N: 42.AC039  
 Total Time: 310.7

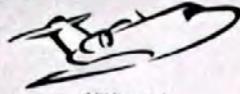
- Performed Annual Inspection using DA42 AMM as a guide.
- Inspected ELT IAW FAR 91.207(d) Battery Expires 2/18.
- Inspected emergency battery IAW DA42 AMM 24-30-00. Battery Expires 10/13.
- R&R ECU backup batteries IAW DA42 AMM 24-30-00.
- R&R Alternator excitation batteries IAW DA42 AMM 24-30-00.
- Replaced fuel filters IAW DA42 AMM 28-20-00.
- Complied with 100 hour lubrication IAW Diamond DA42 AMM 12-20-00.
- R&R LH brake linings IAW DA42 AMM 32-40-00.
- AD 2012-17-07 (wing skin) inspected IAW MSB42-092.
- ADs current to biweekly revision 2012-22.
- Performed ground run operational check.

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

Authorized Signature   
 Michael Herbert AP3153561 IA

# ENGINEERING RECORD

ENGINEERING RECORD  
USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE



**MXdiamond**  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562 989 9495  
Cell: 562 881 5345

Date: 7/2/13 N424RP S/N: 42.AC039  
Total Time: 342.0

1. Replaced main battery with P/N G-2435 S/N G02788255 IAW DA42 AMM 24-31-00.

I certify that the above work was performed IAW DA42 AMM and is in airworthy condition.

Authorized Signature   
David Seastead AP3492477



Date: 12/11/13 N424RP S/N: 42.AC039  
Total Time: 370.7 Hobbs: N/A

Angel City Flyers  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

1. Performed Annual Inspection using DA42 AMM as a guide.
2. Replaced ELT battery and inspected/tested system IAW FAR 91.207(d). Battery expires 02/2018.
3. Replaced emergency battery and inspected system IAW DA42 AMM 24-30-00. Expires 12/2015.
4. Replaced ECU backup batteries IAW DA42 AMM 24-30-00.
5. Replaced Alternator excitation batteries IAW DA42 AMM 24-30-00.
6. Replaced fuel filters IAW DA42 AMM 28-20-00.
7. Replaced deice probe P/N D60-3013-25-00 IAW DA42 AMM 30-00-00.
8. Bled brakes IAW DA42 AMM 32-40-00.
9. Complied with 100 hour lubrication IAW DA42 AMM 12-10-00.
10. AD 2013-07-01 (MLG dampers) repaired IAW MSB42-095.
11. AD 2013-19-11 (NLG Actuator) N/A by P/N.
12. ADs current to biweekly revision 2013-24.
13. Performed ground run operational and leak check.

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

Authorized Signature   
David Seastead AP3492477 IA



Tail# N424RP	Model: DA-42	S/N: 42.AC039
Hobbs: N/A	Total Time: 370.7	Landings: UNK

**COMPLIED WITH THE FOLLOWING INSPECTION ITEMS**

- 1- THE 24 MONTH ALTIMETER AND STATIC SYSTEM TEST REQUIRED BY 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		20K FEET	
PILOT ADC	P/N	011-0082-00	S/N 47807608
STBY ALTIMETER	P/N	5934PD-3	S/N 459395

- 2- THE 24 MONTH ATC TRANSPONDER TESTS REQUIRED BY FAR 91.413 HAVE BEEN PERFORMED AND FOUND TO COMPLY WITH APPENDIX F OF PART 43 OF THIS CHAPTER

#1 TRANSPONDER	P/N 011-00779-10	S/N 89103625
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THE ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. #. LS13-1231

AUTHORIZED SIGNATURE DATE: 11/6/13  
WEST COAST AIRCRAFT MAINTENANCE, 2881 E. Spring Street Long Beach CA 90806 FAA CRS GSPR467E



Date: 1/12/15 N424RP S/N: 42.AC039  
Total Time: 418.9 Hobbs: N/A

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

1. Performed Annual Inspection using DA42 AMM as a guide.
2. Inspected ELT system IAW FAR 91.207(d). Battery expires 02/2018.
3. Replaced emergency battery and inspected system IAW DA42 AMM 24-30-00 Expires 1/2017.
4. Replaced ECU backup batteries IAW DA42 AMM 24-30-00.
5. Replaced Alternator excitation batteries IAW DA42 AMM 24-30-00.
6. Replaced fuel filters IAW DA42 AMM 28-20-00.
7. Bled brakes IAW DA42 AMM 32-40-00.
8. Installed Orion600 LED wingtip lights P/Ns 01-0771733-11/12 IAW AC43.13-28 Chapter 4.
9. Complied with 100 hour lubrication IAW DA42 AMM 12-10-00.
10. ADs current to biweekly revision 2015-01.
11. Performed ground run operational and leak check.

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

Authorized Signature   
David Seastead AP3492477 IA



Date: 2/10/2015 N424RP S/N: 42.AC039  
Total Time: 420.7 Hobbs: N/A

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

1. Replaced LH tire and tube IAW DA42 AMM 32-40-00.

Authorized Signature   
Stanley Jjawi AP3704706



Date: 5/21/15 N424RP S/N: 42.AC039  
Total Time: 428.9 Tach: 428.9 Hobbs: N/A

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

1. Replaced main battery P/N RG24-15M S/N 40733310 IAW DA42 AMM 24-31-00.
2. Replaced RH caliper O-rings P/N MS28775-222 and bled brakes IAW DA42 AMM 32-40-00.

Authorized Signature   
Stanley Jjawi AP3704706



Date: 2/2/16 N424RP S/N: 42.AC039  
Total Time: 467.5 Tach: 2793.4

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.912.4263  
Cell: 562.881.5345

1. Performed Annual Inspection using DA42 AMM as a guide.
2. Inspected ELT system IAW FAR 91.207(d). Battery expires 02/2018.
3. Inspected emergency battery system IAW DA42 AMM 24-30-00. Battery expires 1/2017.
4. Replaced ECU backup batteries IAW DA42 AMM 24-30-00.
5. Replaced Alternator excitation batteries IAW DA42 AMM 24-30-00.
6. Replaced fuel filters IAW DA42 AMM 28-20-00.
7. Complied with 100 hour lubrication IAW DA42 AMM 12-10-00.
8. ADs current to biweekly revision 2016-02.
9. Performed ground run operational and leak check.

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

Authorized Signature   
David Seastead AP3492477 IA



## GERDES AVIATION SERVICES

FAA Approved Repair Station G3RR399J

IFR CERT. TESTS - The Altimeter / Static and Transponder Systems have been tested and inspected per 14 CFR 91.411 & 91.413. The systems were found to comply with 14 CFR 43, Appendix E & F to an altitude of 20,000 feet.

N Number N424RP (Tach) Hobbs 2793.4 ACTT 2793.4  
Date 02-02-2016 Authorized Signature:

P.O. Box 2872 Fullerton CA 92837 Office (714) 525-7545

# CARRIED FORWARD AIRTIME AND ENGINE



Date: 12/16/16 N424RP S/N: 42.AC039  
Total Time: 552.8 Tach: 2878.7 Hobbs: N/A

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

COMPLETE

1. Replaced RH brake pads P/N 06-16955 IAW DA42 AMM 32-40-00.

Authorized Signature

  
Stanley Jijawi AP3704706



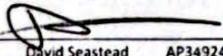
Date: 3/17/17 N424RP S/N: 42.AC039  
Total Time: 553.9 Tach: 2879.8

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.912.4263  
Cell: 562.881.5345

1. Performed Annual Inspection using DA42 AMM as a guide.
2. Inspected ELT system IAW FAR 91.207(d). Battery expires 02/2018.
3. Replaced emergency battery and inspected system IAW DA42 AMM 24-30-00. Battery expires 03/2019
4. Replaced ECU backup batteries IAW DA42 AMM 24-30-00.
5. Replaced Alternator excitation batteries IAW DA42 AMM 24-30-00
6. Replaced fuel filters IAW DA42 AMM 28-20-00.
7. Complied with 100 hour lubrication IAW DA42 AMM 12-10-00.
8. Replaced LH brake linings P/N 066-10500 IAW DA42 AMM 32-40-00.
9. AD 2017-01-12 (Exhaust Pipes) due by 3825.9
10. ADs current to biweekly revision 2017-07.
11. Performed ground run operational and leak check.

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

Authorized Signature

  
David Seastead AP3492477 IA



Date: 8/11/17 N424RP S/N: 42.AC039  
Total Time: 556.9 Tach: 2882.8 Hobbs: N/A

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.912.4263  
Cell: 562.881.5345

1. Complied with OSB-42-046 (2.0L retrofit).
2. Replaced air filters P/N RB-0700.
3. Complied with AD 2017-01-12 (cowling/exhaust).
4. Complied with AD 2015-21-01 (start phase monitoring).
5. Complied with RSB42-097 (map lines).
6. Complied with OSB42-116 (aux transfer).
7. Replaced main canopy strut P/N DAI-9052-00-12.
8. Leveled and weighed aircraft.
9. Performed ground run operational and leak check.

Authorized Signature

  
Stanley Jijawi AP3704706

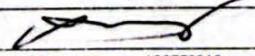


Date: 3/1/2018 N424RP S/N: 42.AC039  
Total Time: 576.6 Tach: 2902.5 Hobbs: N/A

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

1. Replaced ELT battery P/N: 452-6499 S/N: 368368-074 IAW D42 AMM. EXP. 02/2023

Authorized Signature

  
Abel Navarrete AP3773318



## GERDES AVIATION SERVICES

FAA Approved Repair Station G3RR399J

IFR CERT. TESTS - The Altimeter / Static and Transponder Systems have been tested and inspected per 14 CFR 91.411 & 91.413. The systems were found to comply with 14 CFR 43, Appendix E & F to an altitude of 20,000 feet.

N Number N424RP Tach/Hobbs 2902.5 ACTT 2902.5  
Date 03-01-2018 Authorized Signature: Abel Navarrete

P.O. Box 2872 Fullerton CA 92837 Office (714) 525-7545

CARRIED FORWARD





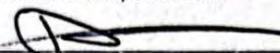
Date: 3/17/17 N424RP S/N: 42.AC039  
Total Time: 553.9 Tach: 2879.8

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.912.4263  
Cell: 562.881.5345

1. Performed Annual Inspection using DA42 AMM as a guide.
2. Inspected ELT system IAW FAR 91.207(d). Battery expires 02/2018.
3. Replaced emergency battery and inspected system IAW DA42 AMM 24-30-00. Battery expires 03/2019.
4. Replaced ECU backup batteries IAW DA42 AMM 24-30-00.
5. Replaced Alternator excitation batteries IAW DA42 AMM 24-30-00.
6. Replaced fuel filters IAW DA42 AMM 28-20-00.
7. Complied with 100 hour lubrication IAW DA42 AMM 12-10-00.
8. Replaced LH brake linings P/N 066-10500 IAW DA42 AMM 32-40-00.
9. AD 2017-01-12 (Exhaust Pipes) due by 3825.9
10. ADs current to biweekly revision 2017-07.
11. Performed ground run operational and leak check.

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

Authorized Signature

  
David Seastead AP3492477 IA



Date: 8/11/17 N424RP S/N: 42.AC039  
Total Time: 556.9 Tach: 2882.8 Hobbs: N/A

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.912.4263  
Cell: 562.881.5345

1. Complied with OSB-42-046 (2.0L retrofit).
2. Replaced air filters P/N RB-0700.
3. Complied with AD 2017-01-12 (cowling/exhaust).
4. Complied with AD 2015-21-01 (start phase monitoring).
5. Complied with RSB42-097 (map lines).
6. Complied with OSB42-116 (aux transfer).
7. Replaced main canopy strut P/N DAI-9052-00-12.
8. Leveled and weighed aircraft.
9. Performed ground run operational and leak check.

Authorized Signature

  
Stanley Jijawi AP3704706

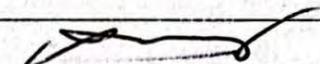


Date: 3/1/2018 N424RP S/N: 42.AC039  
Total Time: 576.6 Tach: 2902.5 Hobbs: N/A

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

1. Replaced ELT battery P/N: 452-6499 S/N: 368368-074 IAW D42 AMM. EXP. 02/2023.

Authorized Signature

  
Abel Navarrete AP3773318

ENGINE AIRTIME AND



Date: 12/16/16 N424RP S/N: 42.AC039  
Total Time: 552.8 Tach: 2878.7 Hobbs: N/A

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

COMPLETE

- 1. Replaced RH brake pads P/N 06-16955 IAW DA42 AMM 32-40-00.

Authorized Signature

Stanley Jijawi AP3704706



Date: 3/17/17 N424RP S/N: 42.AC039  
Total Time: 553.9 Tach: 2879.8

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.912.4263  
Cell: 562.881.5345

- 1. Performed Annual Inspection using DA42 AMM as a guide.
- 2. Inspected ELT system IAW FAR 91.207(d). Battery expires 02/2018.
- 3. Replaced emergency battery and inspected system IAW DA42 AMM 24-30-00. Battery expires 03/2019.
- 4. Replaced ECU backup batteries IAW DA42 AMM 24-30-00.
- 5. Replaced Alternator excitation batteries IAW DA42 AMM 24-30-00.
- 6. Replaced fuel filters IAW DA42 AMM 28-20-00.
- 7. Complied with 100 hour lubrication IAW DA42 AMM 12-10-00.
- 8. Replaced LH brake linings P/N 066-10500 IAW DA42 AMM 32-40-00.
- 9. AD 2017-01-12 (Exhaust Pipes) due by 3825.9
- 10. ADs current to biweekly revision 2017-07.
- 11. Performed ground run operational and leak check.

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

Authorized Signature

David Seastead AP3492477 IA



Date: 8/11/17 N424RP S/N: 42.AC039  
Total Time: 556.9 Tach: 2882.8 Hobbs: N/A

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.912.4263  
Cell: 562.881.5345

- 1. Complied with OSB-42-046 (2.0L retrofit).
- 2. Replaced air filters P/N RB-0700.
- 3. Complied with AD 2017-01-12 (cowling/exhaust).
- 4. Complied with AD 2015-21-01 (start phase monitoring).
- 5. Complied with RSB42-097 (map lines).
- 6. Complied with OSB42-116 (aux transfer).
- 7. Replaced main canopy strut P/N DAI-9052-00-12.
- 8. Leveled and weighed aircraft.
- 9. Performed ground run operational and leak check.

Authorized Signature

Stanley Jijawi AP3704706



Date: 3/1/2018 N424RP S/N: 42.AC039  
Total Time: 576.6 Tach: 2902.5 Hobbs: N/A

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

- 1. Replaced ELT battery P/N: 452-6499 S/N: 368368-074 IAW D42 AMM. EXP. 02/2023.

Authorized Signature

Abel Navarrete AP3773318



# 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.	

BRI  
FOI



## ABSOLUTE AERO

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

### AIRFRAME ENTRY

WORK ORDER: 2196 AIRCRAFT: N424RP TACH: 3005.7 TTAF: 679.8  
 MODEL: Diamond DA 42 S/N: 42.AC039

DATE: 03/19/2019

Removed both unfeathering accumulators for overhaul by American Propeller Service (CRS # NO3R717L, WO# 23508-02-2019 & 23510-02-2019). Reinstalled overhauled accumulators (2EA P/N: P-893, L/H S/N: 06A357, R/H S/N: 06A328) and serviced with nitrogen. Replaced the following parts with new: emergency battery pack (P/N: D60-2560-91-00), EECU batteries (4EA P/N: LC-R127R2P), alternator excitation batteries (2EA P/N: LC-R121R3P), main battery (P/N: RG24-15M, S/N: 41005823), cabin heat control cable assembly (P/N: D60-9021-47-02), defrost control cable stock (P/N: T22700034), alternate air control cable assemblies (1EA P/N: D60-7167-11-00, D60-7167-12-00, DAI-9071-03-05), R/H radiator hose (P/N: 52-7520-H005701), radiator shock mounts (2EA P/N: 90589, 1EA P/N: 509053), TKS level indicator (P/N: D60-3013-25-00), windshield TKS pumps (2EA P/N: D60-9030-13-05), avionics cooling fan (P/N: 305467-00), and overhead lamps (3EA P/N: L24V-WB-W). Replaced both fuel filters supplied in service kit (P/N: 05-9900-S000106). Replaced the ELT tray with new (P/N: 452-3034-1) in accordance with Artex SAIB-HQ-12-32. Replaced the NLG shock strut with repaired assembly (P/N: D60-3223-14-00). Replaced L/H MLG damper tube (P/N: D60-3277-10-31) and valve with new (P/N: MS27436C-1) and re-sealed with new seals (1EA P/N: D60-9032-77-01 & ORAR00224-N7083). Re-sealed all three hydraulic landing gear actuators with new gasket kits (3EA P/N: X11-0006-402471, X11-0006-402473, X11-0006-039179, MS28775-131). Complied with 2 year landing gear damper and landing gear retraction reservoir hydraulic fluid replacement. Complied with DA 42 AMM Ch 12 lubrication schedule and anti-corrosion coating checklist and serviced all wheel bearings. Removed all airframe access panels and covers. Inspected interior and exterior of airframe, wings and empennage. Inspected all flight controls, rigging, stops, angles and all attach points for the wings, engine and landing gear. Performed operational tests of the retractable landing gear in normal and emergency configurations. No defects noted at this time.

I have performed an operational check and inspection on this ELT in accordance with FAR 91.207D and it has been determined to be in an airworthy condition. ELT battery expiration date: 02/2023. C/W MSB 42-136/1 "nose landing gear bracket" by visual inspection, no defects noted. C/W AD 2018-10-10 "exhaust pipes" by visual inspection per (h)(1), no defects noted at this time. Next due Tach: 3055.7. Verified AD's current through FAA AD biweekly 2019-05. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

I certify that this aircraft has been inspected in accordance with FAR 43 Appendix D (Annual Inspection) and has been determined to be in an airworthy condition.

Brandon Thompson A&P / IA 3212565



## ABSOLUTE AERO

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

### AIRFRAME ENTRY

WORK ORDER: 2265 AIRCRAFT: N424RP TACH: 3057.4 TTAF: 731.5  
 MODEL: Diamond DA 42 S/N: 42.AC039

DATE: 04/10/2019

Replaced one nose baggage door lock assembly with new (P/N: C2-33-21). C/W AD 2018-10-10 "exhaust pipes" by visual inspection per (h)(1), no defects noted at this time. Next due Tach: 3107.4. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

This airframe is approved for return to service, for only the work performed.

Brandon Thompson A&P 3212565

CARRIED FORWARD

## INSPECTION, REPAIRS &amp; REPLACEMENT

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

SIGNATURE

LICENCE  
NUMBER**ABSOLUTE AERO**

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

**AIRFRAME ENTRY**

WORK ORDER: 2337 AIRCRAFT: N424RP TACH: 3104.5 TTAF: 778.6

MODEL: Diamond DA 42 S/N: 42.AC039

DATE: 05/22/2019

Replaced the following parts with new: both induction air filters (2EA P/N: RB-0700), L/H main tire (P/N: 156E66-4, S/N: 83122087) and inner tube (P/N: 097-500-0), and R/H brake linings (4EA P/N: APS66-10500). Re-sealed R/H brake caliper with new o-rings (2EA P/N: MS28775-222) and bled R/H brake system. Complied with DA 42 AMM Ch 12 lubrication schedule. Removed all airframe access panels and covers. Inspected interior and exterior of airframe, wings and empennage. Inspected all flight controls, rigging, stops, angles and all attach points for the wings, engine and landing gear. Performed operational tests of the retractable landing gear in normal and emergency configurations. No defects noted at this time. **C/W AD 2018-10-10 "exhaust pipes" by visual inspection per (h)(1), no defects noted at this time.** Next due Tach: 3154.5. Verified AD's current through FAA AD biweekly 2019-10. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

I certify that this aircraft has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in an airworthy condition.

Brandon Thompson A&amp;P 3212565

**ABSOLUTE AERO**

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

**AIRFRAME ENTRY**

WORK ORDER: 2393 AIRCRAFT: N424RP TACH: 3155.2 TTAF: 829.3

MODEL: Diamond DA 42 S/N: 42.AC039

DATE: 07/01/2019

**C/W AD 2018-10-10 "exhaust pipes" by visual inspection per (h)(1), no defects noted at this time. Next due Tach: 3107.4.** All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

This airframe is approved for return to service, for only the work performed.

Jesse Case A&amp;P 3772878

**ABSOLUTE AERO**

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

**AIRFRAME ENTRY**

WORK ORDER: 2438 AIRCRAFT: N424RP TACH: 3204.3 TTAF: 878.4

MODEL: Diamond DA 42 S/N: 42.AC039

DATE: 08/14/2019

Replaced R/H main tire (P/N: 156E66-4, S/N: 82502340) and inner tube (P/N: 097-500-0) with new. Complied with DA 42 AMM Ch 12 airframe 100 hour lubrication checklist. Completed 2-year coolant replacement using 50/50 mix of new Zerex G-05 coolant and distilled water. Bled and pressure tested coolant system. Removed all airframe access panels and covers. Inspected interior and exterior of airframe, wings and empennage. Inspected all flight controls, rigging, stops, angles and all attach points for the wings, engine and landing gear. Performed operational tests of the retractable landing gear in normal and emergency configurations. No defects noted at this time. **C/W AD 2018-10-10 "exhaust pipes" by visual inspection per (h)(1), no defects noted at this time.** Next due Tach: 3254.3. Verified AD's current through FAA AD biweekly 2019-16. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

I certify that this aircraft has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in an airworthy condition.

Brandon Thompson A&amp;P 3212565

# AIR TIME AND

ENGINEERING RECORD

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

DATE

DAILY TOTAL

TOTAL AIR TIME SINCE MFG.

HRS.

MIN.

HRS.

MIN.

BRO FOR



## ABSOLUTE AERO

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

AIRFRAME ENTRY

WORK ORDER: 2509 AIRCRAFT: N424RP TACH: 3238.9 TTAF: 913.0

DATE: 09/24/2019

MODEL: Diamond DA 42 S/N: 42.AC039

Replaced the lift detector with overhauled unit (P/N: C-99701-1, S/N: 422) from Safe Flight Instrument Corp (CRS# PQ0318NE, WO# 1045358). Operational check good. Aircraft released for stall indicator speed verification flight. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

This airframe is approved for return to service, for only the work performed.

Brandon Thompson A&P 3212565



## ABSOLUTE AERO

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

AIRFRAME ENTRY

WORK ORDER: 2529 AIRCRAFT: N424RP TACH: 3262.4 TTAF: 936.5

DATE: 10/05/2019

MODEL: Diamond DA 42 S/N: 42.AC039

Replaced three stub-wing MicroVG's with new. Tied autopilot circuit breaker and placarded autopilot "INOP". C/W AD 2018-10-10 "exhaust pipes" by visual inspection per (h)(1), no defects noted at this time. Next due Tach: 3312.4. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

This airframe is approved for return to service, for only the work performed.

Brandon Thompson A&P 3212565



## ABSOLUTE AERO

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

AIRFRAME ENTRY

WORK ORDER: 2532 AIRCRAFT: N424RP TACH: 3270.2 TTAF: 944.3

DATE: 10/07/2019

MODEL: Diamond DA 42 S/N: 42.AC039

Replaced L/H main tire (P/N: 156E66-4, S/N: 91432056), inner tube (P/N: 097-500-0), brake disc (P/N: RA164-01501) and linings (4EA P/N: APS66-10500) with new. Serviced tire to fill with nitrogen, leak check good. Performed organic brake lining conditioning procedure. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

This airframe is approved for return to service, for only the work performed.

Brandon Thompson A&P 3212565



## ABSOLUTE AERO

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

AIRFRAME ENTRY

WORK ORDER: 2577 AIRCRAFT: N424RP TACH: 3298.7 TTAF: 972.8

DATE: 11/19/2019

MODEL: Diamond DA 42 S/N: 42.AC039

Replaced R/H brake linings with new (4EA P/N: APS66-10500). Performed organic brake lining conditioning procedure. Operational check good. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

This airframe is approved for return to service, for only the work performed.

Brandon Thompson A&P 3212565

CARRIED FORWARD



CRS# 137R236D  
19300 IKE JONES RD.  
SANTA ANA, California 92707  
United States  
Telephone: 714-955-6151

Work Order No: 4031

November 13, 2019

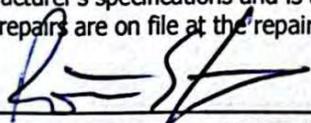
AC Time: 519.5

Registration #: N424RP Manufacturer: Diamond Model number: DA42 Serial Number: 42.AC039

Part Number	Serial Number	Description	New Weight:	2,899.28
Removed			New CG/Arm:	94.56
C63-1/A	41584	COM ANTENNA	New Moment:	274,143.48
011-00779-10	89103625	GTX 33 REMOTE MODE S XPDR	New Useful Load:	1036.02
Installed				
CI-2580-200	617811	CI 2580-200 COMDAT VHF/GPS WAAS		
011-03301-40	3EF420550	GTX 335R GPS, REMOTE ADS-B XPDR (WAAS) / KIT		

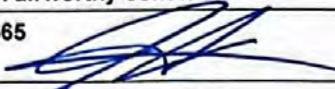
1. REMOVED EXISTING EXISTING GARMIN GTX 33 AND INSTALLED GARMIN GTX 335R (IAW) GARMIN AML/STC SA01714WI INSTALLATION MANUAL # 190-00734-10 REV. 13, DATED: AUG 2019. THIS AIRCRAFT IS LISTED ON THE APPROVED MODEL LIST CONTAINED WITHIN STC SA01714WI.
2. REMOVED DMC63-1/A VHF COMM ANT AND INSTALLED COMDAT CI 2580-200 VHF/GPS/WAAS ANTENNA IAW INSTALL MANUAL #190-00734-10 REV 13 AND AC43.13-2B CHPT 3. THE EXISTING TRANSPONDER ANTENNA WAS USED FOR THIS INSTALL.
3. THE GARMIN GTX 335R IS PROTECTED BY AN EXISTING '3' AMP MAIN POWER CIRCUIT BREAKER LOCATED ON THE AVIONICS BUS LABELED "XPDR" AND IS COUPLED TO THE GARMIN G1000 #1 GIA 63W AND #2 GIA 63W FOR REMOTE CONTROL.
4. THE GTX 335R TRANSPONDER HAS BEEN TESTED, INSPECTED AND FOUND TO COMPLY WITH FAR 91.413 IAW APPENDIX F OF PART 43. MAXIMUM ELECTRICAL LOAD DID NOT EXCEED 80% OF THE GENERATING CAPACITY OF THE ELETRICAL CHARGING SYSTEM.
5. ALL TEFZEL MIL 22759 WIRING WAS USED IN THIS INSTALL.
6. FAA APPROVED AIRPLANE FLIGHT MANUAL SUPP #190-00734-15 REV 3 DTD 12/21/2017 WAS INSTALLED INTO THE PILOTS OPERATING HANDBOOK.
7. WEIGHT AND BALANCE / EQUIPMENT LISTS HAVE BEEN AMENDED.
8. THE GARMIN GTX 335R EXHIBITS NO INTERFERENCE TO COMMUNICATION OR NAVIGATION SYSTEMS.
9. PERFORMED OPERATION/PERFORMANCE CHECKOUT I.A.W WITH MANUFACTURES AML/STC INSTALL MANUAL# 190-00734-10 REV 13. THE INSTALLED ADS-B OUT SYSTEM WAS SHOWN TO MEET THE EQUIPMENT PERFORMANCE REQUIREMENTS OF 14 CFR SECTION 91.227.
10. THIS INSTALLATION MEETS FAR 91.225, WHICH PROVIDES THE ADS-B EQUIPMENT REQUIREMENTS EFFECTIVE JAN. 1, 2020.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations, manufacturer's specifications and is approved for return to service with respect to the work performed. Pertinent details of these repairs are on file at the repair station under Work Order Number 4031.

  
Signed: RON FREEMAN Date: 11/14/2019  
CRS# 137R236D

# 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.	

BRC FOF	 <b>ABSOLUTE AERO</b> MAINTENANCE 21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591	<b>AIRFRAME ENTRY</b>
WORK ORDER: 2595 AIRCRAFT: N424RP TACH: 3308.5 TTAF: 982.6 MODEL: Diamond DA 42 S/N: 42.AC039		DATE: 12/16/2019
Complied with Diamond RSB42-132 by installation of steering placards. Replaced the following parts with new: R/H squat switch (P/N: 1SE-1), stall heat shunt (P/N: 630HR010-R), induction air filters (2EA P/N: RB-700), lower engine breather hoses (P/N: SHL19), aft cabin door spring (P/N: DAI-9052-00-11), and R/H engine coolant system hose clamps (8EA P/N: ASK_25-40). Pressure tested coolant systems. Disassembled, cleaned and reassembled rear door secondary latch using new o-ring (P/N: DIN3771-7.66X1.78FPM). Serviced all three oleo struts with nitrogen. Complied with DA 42 AMM Chapter 12-20-00 100 hour lubrication schedule. Removed all airframe access panels and covers. Inspected interior and exterior of airframe, wings and empennage. Inspected all flight controls, rigging, stops, angles and all attach points for the wings, engine and landing gear. Performed operational tests of the retractable landing gear in normal and emergency configurations. No defects noted at this time. C/W AD 2018-10-10 "exhaust pipes" by visual inspection per (h)(1), no defects noted at this time. Next due Tach: 3358.5. Verified AD's current through FAA AD biweekly 2019-25. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END		
I certify that this aircraft has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in an airworthy condition.		
Brandon Thompson A&P 3212565 		

Precision Static Testing      Livermore, CA FAA Certified Repair Station #QJAR856X PHONE: (925) 449-5904      FAX (925) 449-6081	
I certify that the altimeter(s) and static system(s) tests required by 14 CFR § 91.411 and transponder tests as required by § 91.413, including data correspondence, required by § 91.217, have been performed and found to comply with 14 CFR Part 43, Appendix E and F.	
Tested to <u>29,000</u> feet.	Time: <u>575.3 H</u>
W/O# <u>17224</u>	N <u>424RP</u>
Inspected by <u></u>	Date <u>2/18/2020</u>

 <b>ABSOLUTE AERO</b> MAINTENANCE 21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591	<b>AIRFRAME ENTRY</b>	
WORK ORDER: 2685 AIRCRAFT: N424RP TACH: 3342.3 TTAF: 1016.4 MODEL: Diamond DA 42 S/N: 42.AC039		DATE: 02/21/2020
Replaced the L/H main tire (P/N: 156E66-4, S/N: 71892213) and inner tube (P/N: 097-500-0) with new. Serviced tire to fill with nitrogen, leak check good. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END		
This airframe is approved for return to service, for only the work performed.		
Brandon Thompson A&P 3212565 		

CARRIED FORWARD

Test Altitude	Scale Error	Friction Error	Encoder	Leak Acft/Case
-1000	-10		0.0	71 @ / 5000
0	-10		0	Hysteresis
500	-10		.5	% Altitude Tested
1000	-10	0	1.0	Altitude Tested
1500	-10		1.5	Amount Hysteresis
2000	-10	0	2.0	50%
3000	-10	0	3.0	40%
4000	-10		4.0	After Effect <u>0</u> Check Pitot Heat <input type="checkbox"/>
5000	-10		5.0	Baro. Scale Error (± 25 ft.)
6000	-10		6.0	28.10
8000	-20		8.0	28.50
10000	-20	0	10.0	29.00
12000	-20		12.0	29.50
14000	-30		14.0	29.92
15000	-30	0	15.0	30.50
16000	-30		16.0	30.90
18000	-30		18.0	30.99
20000	-40	0	20.0	Aircraft #
22000				N424RP
25000				Date Tested:
30000				2/18/2020
35000				Technician:
40000				JR
45000				Inspector:
50000				

Tested in compliance with Appendix E, Part 43, F.A.R 91.411  
 Tested to: 204 ft. W.O. #: 17224

Precision Static Testing FAA CRS# QJAR856X

PILOT / FIRST OFFICER / STAND-BY

Test Altitude	Scale Error	Friction Error	Encoder	Leak Acft/Case
-1000	-10			718/1001
0	0			Hysteresis
500	-10			% Altitude Tested
1000	0	10		Altitude Tested
1500	0			Amount Hysteresis
2000	+10	10		50%
3000	+10	10		40%
4000	+10			After Effect
5000	0			Check Pitot Heat
6000	0			Baro. Scale Error (± 25 ft.)
8000	-20			28.10
10000	-20	10		-1727
12000	-20			28.50
14000	-20			-1340
15000	-20	20		29.00
16000	-20			-863
18000	-10			29.50
20000	0	20		-392
22000				29.92
25000				0
30000				30.50
35000				+531
40000				30.90
45000				+893
50000				30.99
				+974
				Aircraft #
				N424RP
				Date Tested:
				2/18/2020
				Technician:
				JR
				Inspector:

Tested in compliance with Appendix E, Part 43, F.A.R 91.411  
 Tested to: 204 ft. W.O. #: 17224

Precision Static Testing FAA CRS# QJAR856X

PILOT / FIRST OFFICER / STAND-BY

## INSPECTION, REPAIRS &amp; REPLACEMENT

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

SIGNATURE

LICENCE  
NUMBER**ABSOLUTE AERO**

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

**AIRFRAME ENTRY**

WORK ORDER: 2698 AIRCRAFT: N424RP TACH: 3366.1

MODEL: Diamond DA 42 S/N: 42.AC039

DATE: 03/04/2020

Placarded the autopilot inoperative, pulled and tied circuit breaker. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

This airframe is approved for return to service, for only the work performed.

Brandon Thompson A&amp;P 3212565

**ABSOLUTE AERO**

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

**AIRFRAME ENTRY**

WORK ORDER: 2723 AIRCRAFT: N424RP TACH: 3376.7 TTAF: 1050.8

MODEL: Diamond DA 42 S/N: 42.AC039

DATE: 04/28/2020

C/W DA 42 AMM 05-28-50 100/200/1000-hour inspection checklist items. C/W DA 42 AMM 05-25-00 drain holes inspection checklist. Enabled previously inop'd autopilot system, self test and ground checks passed. Replaced both fuel filters supplied in engine service kits (P/N: 05-9900-S000106). Replaced the following parts with new: EECU batteries (4EA P/N: LC-R127R2P), alternator excitation batteries (2EA P/N: LC-R121R3P), hydraulic power pack filter (P/N: X11-0004-HC0465FDS3Z) and cap seal (P/N: X11-0004-H0465SKZ), fuel tank drain valves (4EA P/N: DA4-9028-17-01), ELT remote switch (P/N: 345-6196-04), gear warning horn (P/N: SC628NDP), forward canopy latch plate (P/N: 6230624S4), canopy placards (P/N: D60-1123-10-04\_1 & DA4-1123-10-06\_1), fuel quantity placards (2EA P/N: D60-1127-20-30 & D60-1127-20-31X01), L/H coolant hose clamps (2EA P/N: NM-0000-0021601), coolant radiator shock mounts (3EA P/N: 509053, 90589 & NM-0000-0023101), R/H brake disc (P/N: RA164-01501) and linings (4EA P/N: APS66-10500). Replaced both cabin and aux fuel tank door locks with new matched set (P/N: 3802-0023). Replaced R/H wing J2422 and P2422 wiring connectors (P/N: 206437-1 & 206438-1), clamp (P/N: 206138-8), and all associated pins (P/N: 205089-1 & 205090-1) with new. Removed R/H wing to facilitate replacement of both R/H fuel quantity probes (P/N: D60-2817-13-00\_1-ASY & D60-2817-14-00\_1-ASY), tank hoses (2EA P/N: D4D-2817-10-70\_01 & 4219-06036), clamps (4EA P/N: 01267702090 & 01267702090, 8EA P/N: 15400032), and o-ring (P/N: DIN3771-127X5). Reinstalled R/H wing with new aft wing bolt (P/N: DA4-5710-00-62) and wing gap seal (P/N: DAI-9057-00-01). Performed R/H fuel indication calibration procedure. Replaced R/H brake caliper assembly with as-removed part (P/N: 30-52ZRH). Serviced and bled R/H brake system with new hydraulic fluid and completed organic brake lining conditioning procedure. Performed desulfation recovery charge and capacity test on main battery; battery passed C1: 114.3%. C/W DA 42 AMM 12-20-00 100, 200 & 1000 hour lubrication schedule and serviced all wheel bearings. C/W DA 42 AMM 12-30-00 anti-corrosion coating checklist. Removed all airframe access panels and covers. Inspected interior and exterior of airframe, wings and empennage. Inspected all flight controls, rigging, stops, angles and all attach points for the wings, engine and landing gear. Performed operational tests of the retractable landing gear in normal and emergency configurations. No defects noted at this time.

I have performed an operational check and inspection on this ELT in accordance with FAR 91.207D and it has been determined to be in an airworthy condition. ELT battery expiration date: 02/2023. C/W MSB 42-137/1 "Rudder T-Yoke" by visual inspection, no defects noted. C/W AD 2018-10-10 "exhaust pipes" by replacement of both tail pipes with new (2EA P/N: 52-7810-H000104). Next due Tach: 4876.7. Verified AD's current through FAA AD biweekly 2020-09. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

I certify that this aircraft has been inspected in accordance with FAR 43 Appendix D (Annual Inspection) and has been determined to be in an airworthy condition.

Brandon Thompson A&amp;P / IA 3212565

# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	<b>PRECISION STATIC TESTING CRS #QJAR856X</b>				
	I certify that I have performed a leak test of the pitot static system(s) in accordance with FAR 91.411 and Part 43, Appendix E, paragraph (a)(2). No defects found.				
	N <u>424RP</u> A/C Hours: <u>638.9</u> DATE: <u>4/20/2020</u>				
	Inspected by <u>[Signature]</u> WO# <u>17546</u>				
	The aircraft identified above was repaired / inspected in accordance with current FAA regulations and was found to be airworthy for return to service. Pertinent details of the work performed are on file at this repair station.				

**ABSOLUTE AERO**  
 MAINTENANCE  
 21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

**AIRFRAME ENTRY**

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WORK ORDER: 2741 AIRCRAFT: N424RP TACH: 3386.2 TTAF: 1060.3 DATE: 05/15/2020

MODEL: Diamond DA 42 S/N: 42.AC039

Replaced L/H wing J2422 and P2422 wiring connectors (P/N: 206437-1 & 206438-1), clamp (P/N: 206138-8), and all associated pins (P/N: 205089-1 & 205090-1) with new. Removed L/H wing to facilitate replacement of both L/H fuel quantity probes (P/N: D60-2817-13-00\_1-ASY & D60-2817-14-00\_1-ASY), tank hoses (2EA P/N: D4D-2817-10-70\_01 & 4219-06036), clamps (9EA P/N: 15400032, 2EA P/N: 15400037, 4EA P/N: SGTS\_80-100\_12W1C7), and o-rings (P/N: DIN3771-127X5 & DIN3771-23.4X3.53). Reinstalled L/H wing with new bolt (P/N: DA4-5710-00-62), bearing (P/N: SSCP10), and nut (P/N: DIN985-M10-A2). Performed L/H fuel indication calibration procedure. Replaced L/H and R/H safety walk decals with new (P/N: D60-1127-10-53 & D60-1127-10-54). Leak and operational checks good. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

This airframe is approved for return to service, for only the work performed.

Jesse Case A&P 3772878 [Signature]

**ABSOLUTE AERO**  
 MAINTENANCE  
 21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

**AIRFRAME ENTRY**

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WORK ORDER: 2814 AIRCRAFT: N424RP TACH: 3445.8 TTAF: 1119.9 DATE: 06/26/2020

MODEL: Diamond DA 42 S/N: 42.AC039

Replaced the ignition switch with new (P/N: 75705-01). Operational test good. All work completed in accordance with the Diamond DA42 Maintenance Manual. -END

This airframe is approved for return to service, for only the work performed.

Brandon Thompson A&P 3212565 [Signature]

CARRIED FORWARD

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE NUMBER



**ABSOLUTE AERO**

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

**AIRFRAME ENTRY**

WORK ORDER: 2856 AIRCRAFT: N424RP TACH: 3473.4 TTAF: 1147.5

DATE: 08/07/2020

MODEL: Diamond DA 42 S/N: 42.AC039

Replaced the following parts with new: induction air filters (2EA P/N: RB-0700), L/H and R/H intercooler shock mounts (4EA P/N: 90589), nose tire (P/N: 071-311-0, S/N: 9246S00167) and inner tube (P/N: 097-908-0), main gear downlock hooks (P/N: D60-3237-51-00) and rods (P/N: D60-3237-41-00), R/H prop TKS nozzle (P/N: D60-9030-66-01) and sealing ring (P/N: D60-9030-00-01), landing gear bowden cable (P/N: T22700034), and one L/H stub wing vortex generator. Cleaned and inspected the nose landing gear drag link center and lower components. Reassembled and sealed the downlock pins in accordance with MSB42-062/1 instructions. Replaced engine coolant using 50/50 mix of new Zerex G-05 coolant and distilled water. Complied with DA 42 AMM 12-20-00 100-hour lubrication schedule. Removed all airframe access panels and covers. Inspected interior and exterior of airframe, wings and empennage. Inspected all flight controls, rigging, stops, angles and all attach points for the wings, engine and landing gear. Performed operational tests of the retractable landing gear in normal and emergency configurations. No defects noted at this time. C/W MSB42-140/1 "Main landing gear axle" by measurement of the axle inner diameters, no defects noted. No further action required. Verified AD's current through FAA AD biweekly 2020-16. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

I certify that this aircraft has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in an airworthy condition.

Brandon Thompson A&P 3212565

MAKE Diamond  
MODEL DA42  
S/N 42.AC039  
REG NO: N424RP  
WORK ORDER: 3798

**Aero City Maintenance**

2901 East Spring St. Suite A  
Long Beach, CA 90806  
Phone: 562-912-4263

DATE: 9/3/2020  
A/C TSN: 3532.8  
HOBBS: 860.7

**Airframe Entries**

Re-secured set screw on the rudder trim knob using Diamond DA42 AMM Ch. 27-10 as a guide. Ops. Check good.

DATE: 9/3/2020

SIGNED:

Andres Almazan Urrostegui, License: 4257382

Work Order: 3798

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**ABSOLUTE AERO**

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

**AIRFRAME ENTRY**

WORK ORDER: 2940 AIRCRAFT: N424RP TACH: 3574.3 TTAF: 1248.4

DATE: 10/14/2020

MODEL: Diamond DA 42 S/N: 42.AC039

Replaced the following parts with new: main tires (P/N: 156E66-4, L/H S/N: 93182245, R/H S/N: 00520218), inner tubes (2EA P/N: 097-500-0), and brake linings (8EA P/N: APS66-10500). Serviced tire pressures and hydraulic landing gear accumulator using nitrogen. Resealed the R/H main landing gear actuator using new seals (1EA P/N: X11-0006-402471, X11-0006-402473, X11-0006-039179, MS28775-131). Bled the hydraulic landing gear system and serviced the reservoir with new fluid to fill. Removed, cleaned, and reinstalled nose landing gear drag brace bushings and pins. Complied with DA 42 AMM 12-20-00 100-hour lubrication schedule. Bled and pressure tested coolant system. Removed all airframe access panels and covers. Inspected interior and exterior of airframe, wings and empennage. Inspected all flight controls, rigging, stops, angles and all attach points for the wings, engine and landing gear. Performed operational tests of the retractable landing gear in normal and emergency configurations. No defects noted. Performed taxi test and organic brake lining conditioning procedure. Verified AD's current through FAA AD biweekly 2020-21. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

I certify that this aircraft has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in an airworthy condition.

Brandon Thompson A&P 3212565

# AIR TIME AND

## ENGINEERING RECORD

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

DATE

DAILY TOTAL

TOTAL AIR TIME SINCE MFG.

HRS.

MIN.

HRS.

MIN.

BR  
FO



### ABSOLUTE AERO

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

AIRFRAME ENTRY

WORK ORDER: 2995 AIRCRAFT: N424RP TACH: 3610.3 TTAF: 1284.4  
MODEL: Diamond DA 42 S/N: 42.AC039

DATE: 11/13/2020

Replaced the rudder trim indicator pin with new (P/N: D60-7613-18-00). Operational test good. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

**This airframe is approved for return to service, for only the work performed.**

Brandon Thompson A&P 3212565



### ABSOLUTE AERO

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

AIRFRAME ENTRY

WORK ORDER: 3090 AIRCRAFT: N424RP TACH: 3674.2 TTAF: 1348.3  
MODEL: Diamond DA 42 S/N: 42.AC039

DATE: 03/17/2021

Pulled and tied the autopilot circuit breaker and placarded the autopilot INOP. Replaced the lift detector with overhauled part (P/N: C-99701-1, S/N: 604) from Safe Flight Instrument Corp (CRS# PQ0318NE, WO# 186310). Replaced the nose landing gear oleo strut with repaired part (P/N: D60-3223-14-00) from Diamond Aircraft Industries (AMO 161-93, W/O# SO072875). C/W DA 42 AMM 05-10-00 2-year landing gear damper fluid and hydraulic power pack reservoir fluid replacement. Serviced all three dampers with new fluid and nitrogen. Replaced both fuel filters supplied in engine service kits (P/N: 05-9900-S000108). Replaced the following parts with new: EECU batteries (4EA P/N: LC-R127R2P), alternator excitation batteries (2EA P/N: LC-R121R3P), emergency battery package (P/N: D60-2560-91-00, S/N: 2202220022), induction air filters (2EA P/N: RB-0700), R/H TKS nozzle and seal (1EA P/N: D60-9030-66-01, D60-9030-00-01), one R/H coolant radiator shock mount (P/N: NM-0000-0159101), L/H de-ice light (P/N: 01-0771186-01), nose wheel axle bolt (P/N: DIN931-M8x130-88-ZP), and two stub-wing micro vortex generators. Replaced all wing and horizontal stabilizer TKS panel edge sealant and the stub-wing to fuselage sealant using 3M 5200 Marine Adhesive. Fabricated and installed new bonding strap for the rudder bell crank beneath the crew seats. Performed battery capacity test on main battery; battery passed C1: 110.6% per Concorde TB-13. C/W DA 42 AMM 12-20-00 100/200-hour lubrication schedule and serviced all wheel bearings. C/W DA 42 AMM 12-30-00 anti-corrosion coating checklist and DA 42 AMM 05-25-00 drain holes inspection checklist. Removed all airframe access panels and covers. Inspected interior and exterior of airframe, wings and empennage. Inspected all flight controls, rigging, stops, angles and all attach points for the wings, engine and landing gear. Performed operational tests of the retractable landing gear in normal and emergency configurations. No defects noted at this time.

I have performed an operational check and inspection on this ELT in accordance with FAR 91.207D and it has been determined to be in an airworthy condition. ELT battery expiration date: 02/2023. Verified AD's current through FAA AD biweekly 2021-06. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

**I certify that this aircraft has been inspected in accordance with FAR 43 Appendix D (Annual Inspection) and has been determined to be in an airworthy condition.**

Jesse Case A&P / IA 3772878

6/5/2021

N424RP

TACH 3725.5

Autopilot Failed preflight test - stick slowly deflects full right in ROL & HPC modes. Disabled by pulling and tying circuit breaker placarded INOP JAW 9.2.13.

JJC 2707015

CARRIED FORWARD

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

SIGNATURE

LICENCE  
NUMBER



### ABSOLUTE AERO

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

### AIRFRAME ENTRY

WORK ORDER: 3373 AIRCRAFT: N424RP TACH: 3768.8 TTAF: 1442.9

MODEL: Diamond DA 42 S/N: 42.AC039

DATE: 09/15/2021

Replaced the following parts with new: main tires (P/N: 156E66-4, L/H S/N: 10640399, R/H S/N: 93162340), inner tubes (2EA P/N: 097-500-0), L/H brake linings (4EA P/N: APS66-10500) nose landing gear scissor links (2EA P/N: D60-3223-10-53) using bushings (4EA P/N: BU1-08-05-0094-C & 5EA P/N: EGF08055-E40-B), axle link (P/N: D60-3223-10-32), bolts (4EA P/N: LN9037-M5X24) and nuts (4EA P/N: DIN985-M5-A2, 1EA P/N: DIN985-M6-A2 & P/N: DIN985-M10-ZP), main gear damper bushings (8EA P/N: D60-3277-10-34\_01, 2EA P/N: D64-3217-21-62, D64-3217-21-67, EN2287-1220A, EN2288-1208A) and hardware (2EA P/N: D60-3217-21-33, DIN125-13-A2, DIN985-M12-A2, 6EA P/N: LN9025-0815K, 4EA P/N: LN9037-M8X50 & LN9338-08). Replaced two roller cages in the R/H stub-wing with new (P/N: DS-RG3), repainted sections of the aileron push-pull tube in the R/H stub wing. Fabricated and installed two R/H wing flap bonding straps. Serviced tire pressures and hydraulic landing gear accumulator using nitrogen. Complied with DA 42 AMM 12-20-00 100-hour lubrication schedule. Replaced both fuel filters with new supplied in service kit (P/N: 05-9900-S000108). Bled and pressure tested coolant system. Removed all airframe access panels and covers. Inspected interior and exterior of airframe, wings and empennage. Inspected all flight controls, rigging, stops, angles and all attach points for the wings, engine and landing gear. Performed operational tests of the retractable landing gear in normal and emergency configurations. No defects noted. Performed taxi test and organic brake lining conditioning procedure. Verified AD's current through FAA AD biweekly 2021-19. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END

I certify that this aircraft has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in an airworthy condition.

Brandon Thompson A&P 3212565



REG: N424RP SN: 42.AC039 HOBBS: 1135.5 DATE: 06/09/2021  
KAP140 ROLLS RIGHT SLOWLY WHEN FIRST ENGAGED: Tested the system and verified the discrepancy. Tried to adjust but was erratic. Removed the computer and installed a new adjustment pot. Reinstalled the computer. Performed a ground alignment. The system ground function tested good after repair.

W.O. 16613

David DeCant CRS# E5VR306N

# ENGINEERING RECORD

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.			
BRO FOR	 <b>ABSOLUTE AERO</b> MAINTENANCE 21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591		<b>AIRFRAME ENTRY</b>		
	WORK ORDER: 3493    AIRCRAFT: N424RP    TACH: 3821.1    TTAF: 1495.2 MODEL: Diamond DA 42    S/N: 42.AC039		DATE: 12/10/2021		
	C/W Diamond OSB-42-078 "Installation of coated safety walk" in accordance with WI-OSB-42-078 instructions. Repaired crew seat upholstery. All work completed in accordance with the Diamond DA 42 Maintenance Manual. -END				
	This airframe is approved for return to service, for only the work performed.				
	Brandon Thompson A&P 3212565 				



3330 AIRPORT LOOP  
SALISBURY, NC 28147  
OFFICE: 704-431-6862  
INFO@SOUTHTECAVIATION.COM

DATE: APRIL 19, 2022 | DIAMOND DA42 | S/N: 42.AC039 | REG: N424RP  
TACH: 3848.3 HRS. TTAF: 1522.4 HRS.

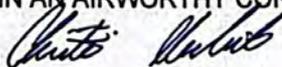
ANNUAL INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH DIAMOND AIRCRAFT INDUSTRIES GMBH DA42 AMM INSPECTION CHECKLIST. AD'S CHECKED THROUGH BIWEEKLY NUMBER 2022-08.

**AD 21-22-03** NOSE LANDING GEAR ATTACHMENT LEVER INSPECTION COMPLIED WITH BY FOLLOWING DIAMOND AIRCRAFT WI-MSB 42-136/1 DATED JANUARY 24, 2019. DUE AGAIN IN 200 HOURS, 4048.3 HOURS TACH.

**MSB 42-143/1** INSPECTION OF HOLE POSITION AND CONDITION IN THE RUDDER STEERING BRACKET, DATED JANUARY 25, 2022 COMPLIED WITH IN ACCORDANCE WITH DIAMOND AIRCRAFT WI-MSB 42-143, DATED MARCH 10, 2022. NO FAULTS NOTED. AFTER COMPLETION OF THIS SERVICE BULLETIN THE REPETITIVE INSPECTION OF THE TORQUE OF THE T-YOKE BOLT IS REPLACED BY VISUAL INSPECTION OF THE TORQUE SEAL MARKS PER PARAGRAPH I.6 OF THIS MSB.

- REPLACED ELT BATTERY PACK WITH ARTEX ME406 KIT, P/N:(455-0012)
- ELT TESTED IN ACCORDANCE WITH CFR 91.207(D). EXP: **FEB 2029**
- REPLACED FADEC BACKUP BATTERIES, P/N:(NP7-12). EXP: **APRIL 2023**
- REPLACED ALTERNATOR EXCITATION BATTERIES, P/N:(NP1.2-12). EXP: **APRIL 2023**
- PERFORMED BONDING AND STATIC DISCHARGING SYSTEM CHECK REFERENCING SECTION 51-80 OF THE MAINTENANCE MANUAL. NEXT DUE: **APRIL 2026 OR TACH: 4848.3**
- PERFORMED NORMAL AND EMERGENCY GEAR SWINGS.
- INSPECTED AND REPACKED WHEEL BEARINGS.
- REPLACED RIGHT BRAKE LININGS P/N:(RA66-105).
- REPLACED LEFT AND RIGHT ENGINE FUEL FILTERS SUPPLIED IN CONTINENTAL DIESEL 100 HOUR ENGINE SERVICE KITS P/N:(05-9900-S000108).
- REPLACED MISSING VORTEX GENERATOR ON RIGHT WING STUB.
- ADJUSTED LEFT AND RIGHT ENGINES TO SIT HIGHER SO THEY WOULD NO LONGER RUB ENGINE MOUNT ARM AT OIL SUMP.
- REPAINTED INSTRUMENT PANEL COVER.
- REPAINTED PILOT SIDE STEP AND INSTALLED NEW STEP PAD P/N:(D60-1127-10-53).
- ALL WORK COMPLETED IN ACCORDANCE WITH DIAMOND AIRCRAFT DA42 AMM.

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



CHRISTIAN HEDRICK

A&P / IA 3740465



# A R T I M E A N D

DATE

DAILY  
TOTAL

TOTAL AIR  
TIME SINCE  
MFG.

ENGINEERING RECORD

MAKE: Diamond Aircraft  
MODEL: DA 42  
S/N: 42.AC039  
REG NO: N424RP  
WORK ORDER: 10669-03-2024

 **J.A. Air Center**

Repair Station No. NF2R029L  
43W730 US RT 30  
Sugar Grove, Illinois 60554  
Phone: 630 584 3200

DATE: 01 September, 2024  
A/C TSN: 1579 9  
FLIGHTTIME: 3905 8

**Airframe Entries**

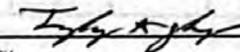
- 1 Inspected and serviced the airframe in accordance with Diamond Aircraft DA42 Aircraft Maintenance Manual (Rev 5) Chapter 4-00-00, Chapter 5-10-00 Time limits and inspections and Chapter 5-28-00 Engine inspection requirements for an Annual, 100Hr, and 200Hr Inspections and Chapter 05-28-50 Airframe inspection requirements for an Annual, 100Hr, and 200Hr Inspections. Tested and inspected the ELT as per FAR91.207d. ELT battery expiration date is 02/2029. See the following items for additional service and repairs.  
  
Installed Factory New Continental Diesel CD-135 Engine TAE-125-02-99, S/N: 02-02-06615 in RH position as per Diamond Aircraft DA42 TDI AMM 7.02.01 (Rev 5) Ch 71-00-00. Also referenced Continental Aerospace Technologies GmbH CD-135 Operation and Maintenance Manual Doc. No. OM-02-02 (Rev 5/3) and CD-135 Repair Manual Doc. No. RM-02-02 (Rev 5/8). Mounts, hoses, hardware, and misc consumables as required. Reference item 8.
- 9 Replaced rear passenger door Gas Spring Strut P/N: DAI-9052-00-11 as per DA42 AMM Ch.52-10-00.
- 10 Complied with 406 Mhz ELT Inspection and Test (ELT S/N: 01527). No discrepancies noted at this time. Next due in 12 calendar months. Battery Replacement due 02/2029. This work done in accordance with 14 CFR 91.207(d).
- 11 **Complied with Altimeter & Static Tests** to 20,000 feet in accordance with Part 43 appendix E paragraphs (a) and (b), as required by 14 CFR 91.411, using the procedure as defined in ASTM Standard F3229/F3229M-F, titled "Standard Practice for Static Pressure System Tests in Small Aircraft" this date GDC 75 SN/47807608 United 5934PD-3 SN/ 459395  
**Complied with Altitude reporting system and transponder tests** to 20,000 feet in accordance with Part 43 appendix F as required by 91.413. GTX335R SN/3EF420550
- 12 Installed LH and RH FADEC backup batteries P/N: NP7-12 (4) and performed voltage check as per Diamond DA42 AMM Ch. 24-30. Next replacement due 1yr ± 30 days.
- 13 Concord battery cap check - Completed Main Battery Capacity test as per DA42 AMM (Rev.5) Ch 05-10-00. Battery passed at 22 volts and recharged as per Concord Battery RG Series CMM 5-0171 (Rev Q) Check next due 1000 ± 100 or 1 yr ± 30 days.
- 14 Installed LH engine fuel filter P/N:WK724\_3 as per DA42NG AMM Ch. 28-20. Next replacement due 100±10hr or 1yr± 30 days.  
  
Installed RH engine fuel filter P/N:WK724\_3 as per DA42NG AMM Ch. 28-20. Next replacement due 100±10hr or 1yr± 30 days.
- 16 Installed Ice Protection Filter Cartage's P/N:D60-9030-13-07 as per DA42 AMM Ch. 30-00. Next replacement due in 2000hrs TIS. System was bled to remove entrapped air and verified proper operation and flow from exterior LE panels. No further defects noted.
- 17 Completed KAP 140 Autopilot Mechanical Check as per DA42 AMM Ch. 22-10. Checking cable tensions for Roll and Pitch autopilot's. Next inspection due 1yr ± 30days.
- 18 Performed Fire Extinguisher Inspection and weight check as per DA42 AMM Ch 05-10-00. Current weight 2.2 lbs.
- 19 Complied with magnetic compass compensation check as per DA42 AMM Ch 05-10-00. No defects noted.
- 20 Installed alternator excitation batteries P/N:NP1.2-12 (2) as per Diamond DA42 AMM Ch. 24-30. Next replacement due 1yr± 15 days.
- 23 Bled and replaced brake fluid with MIL-H-5606 as per DA42 AMM Ch.05-10-00.
- 24 Replaced hydraulic fluid in landing gear dampers with P/N: Aeroshell 41 and serviced with nitrogen as per Diamond DA42 AMM Ch. 32-10 and 32-20.
- 25 Replaced hydraulic system fluid with Aeroshell 41 and installed new HP filter P/N: X11-0004-HC0465F as per DA42 AMM CH 05-10-00. Leak check and gear swing satisfactory.
- 26 Installed LH & RH engine air filter P/N:D60-9071-66-04 (2) as per Diamond DA42 AMM Ch. 71-60. Next replacement due 200±10hr TIS.
- 27 Installed coolant silicate pouches (2) P/N: D44-9075-21-01 on LH and RH engines as per DA42 AMM CH 05-10-00. Serviced with G48 coolant. Leak check satisfactory.
- 28 Complied with Diamond Aircraft MSB42-007/23. Updated FADEC software mapping on LH engine to version F28D183DA42. Ground run satisfactory.
- 29 Complied with Diamond Aircraft MSB42-007/23. FADEC software on RH engine found to be up to date. Ground run satisfactory.
- 30 **FAA AD 2023-01-08** to prevent failure of the engine main bearing stud does not apply, LH Engine S/N not listed in the affected range listed in Continental SB CG 125-1027 P1. No further action required.
- 31 **FAA AD 2023-01-08** to prevent failure of the engine main bearing stud does not apply, RH Engine S/N not listed in the affected range listed in Continental SB CG 125-1027 P1. No further action required.
- 32 **C/W AD 2021-22-03** To detect and correct cracks in the NLG actuator attachment lever. No discrepancies noted at this time. Next due within 200 Hrs TIS.
- 33 **C/W AD 2018-10-10** Exhaust System inspection, Compliance (h) (1), on LH and RH engines. No discrepancies noted at this time, Next due within 50 Hrs TIS.
- 34 Completed 100 and 200 Hour Drain Hole Inspection as per DA 42 AMM CH 05-25-00. No discrepancies noted at this time.
- 35 Completed **AD 2024-06-13** To Detect and Correct Vertical Movement of the rudder T-Yoke Bolt (Axle) New bolt installed P/N:D60-5320-00-32 therefore reoccurring inspection next due 200hr TIS.
- 36 Completed **Diamond Aircraft MSB42-143/1** - Inspection of hole position and condition in the rudder steering bracket incl. WI Rev. 3. No defects noted next inspection due 200hr TIS.
- 38 Diamond Aircraft MSB 42-146 previously complied with by accomplishing Diamond Aircraft RSB42-139 on 4/28/2023 at 1554.4 Hrs Airframe TT. No further Action Required.
- 40 Replaced LH and RH Main Landing Gear Brake Disc P/N: APS164-01501 and lining P/N: APS66-10500 as per Cleveland Component Maintenance Manual AWBCMM0001-28/USA
- 41 Inspected LH engine mounts for security and attachments, adjusted as required to provide better clearance from cowling.
- 46 Removed and replaced rudder trim assembly with a new unit, Installed Diamond Aircraft P/N: D60-5545-00-00\_1. Also replaced attach rod, Diamond P/N: 04\_050\_19\_20\_2. Work performed with reference to DA42 AMM 27-21-00.
- 49 Installed new elevator pushrod rollers P/N: DS-RG3 (2) at aft baggage compartment frame and ring frame one as per DA42 AMM Ch. 27-30.

**Maintenance Release**

I certify the aircraft and/or component(s) on was repaired and/or inspected in accordance with an annual inspection, and current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station CRS NF2R029L under Work Order No. 10669-03-2024, Dated 01 September, 2024.

DATE: 01 September, 2024

SIGNED:

  
Timothy Quigley  
Certified Repair Station No. NF2R029L

Work Order: 10669-03-2024

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# ENGINEERING RECORD

14

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

SIGNATURE

LICENCE  
NUMBER

wo: WO\_840

Airframe Annual · page 1 of 2



Steel Aviation · 53 North Street Ext · Phillipsburg, Ohio 45354 · 937 332 7587

**N424RP**

**DIAMOND AIRCRAFT IND INC, DA 42, S/N: 42.AC039**

**October 08, 2025**

HOBBS: 1463.9

TACH: 3952.0

TTSN: 1626.1

1. C/W 200 / ANNUAL INSPECTION I/A/W DIAMOND AMM 5-28-50 ITEMS.
2. C/W ELT Inspection IAW FAR 91.207(D). NDN, Next due: Battery next due: 2/2029.
3. C/W AD inspection checked through Bi-weekly: 2025-20.
4. C/W autopilot function check and auto checks IAW KAP 140 Pilot's Guide. NDN at this time.
5. Removed / inspected, cleaned and reinstalled TKS Fluid Strainer.
6. Inspected magnetic compass NDN at this time.
7. R/R Tail fin ECU Batteries w/ new units. Installed (2) P/N DAI-9024-30-03 - BATTERY, ECU BACKUP, DA42 TAILFIN.
8. Replaced Alt excitation battery's. W/ new Installed (2) P/N NP1.2-12 - BATTERY, SEALED, LEAD-ACID, 12V, 1.2AH.
9. R/R Frt. canopy door latch compression gas /spring Installed P/N D41-5211-60-91 - Compression gas spring.
10. Removed center console plate to access defrost selector cable to lube , LF engine defrost heat cable was lubed, operated selector lever numerous times while apply lube.
11. R/R All Static wicks, & aluminum retaining brackets, removed all corrosion from brackets, etch/ Alodine, applied protective treatment. Applied P/N CW2400 - Adhesive, Epoxy, Conductive.
12. Removed corrosion from Lf/RH Aileron/ Flap grd. straps, hdw. applied protective coating to grd. straps, & hdw.
13. removed minor corrosion from LF/RH flap brackets. prepped, applied 2 part white paint.
14. Review of IPC catalog allows for 2 washer per door/ 1 fwd & aft/ No additional washers were installed.
15. R/R main battery w/ new Concord RG-24-15M Installed P/N RG24-15M - MAIN BATTERY, CONCORD, 24V S/N: 41372067.
16. AD18-10-10 Inspection of the exhaust due every 500h hours next due @ 4405.8.
17. R/R LF main tire, replaced w/ goodyear flight custom III Installed P/N 156E66-4 - 15.00x6.0-6 6PLY tube tire, 160 mph.
18. R/R Emergency battery package. W/. new unit. 32.45 V Installed P/N DA4-2560-91-00 - EMERGENCY BATTERY.

wo: WO\_840

Airframe Annual · page 2 of 2



Steel Aviation · 53 North Street Ext · Phillipsburg, Ohio 45354 · 937 332 7587

19. C/W MSB42-148/1 MLG/NLG retaining clip replacement. Installed (6) P/N DIN471-10X1.0-MZP - RETAINING RING, Installed (4) P/N DIN471-20x1.2-MZP - Retaining Ring, Installed (2) P/N DIN471-18X1.2-MZP - Retaining Ring.
20. C/W MSB42-149, Inspection/ passenger door placards install. Installed P/N D60-1133-10-08 - Information Placard Passenger Door, Installed P/N D60-1123-10-06\_01 - Locking Mechanism Placard.

I certify that this AIRFRAME has been inspected in accordance with an (annual) inspection and was determined to be in airworthy condition. Details of work performed are on file with Steel Aviation under work order: WO\_840.

Jeff Pleiman A/P I/A 3304319