

AIRCRAFT S/N  
42.AC077

# AIRCRAFT TECHNICAL LOGS

Section 1. AIRFRAME

AIRCRAFT

1. Nationality and Registration N935YM
2. Manufacturer's Designation DA 42
3. Manufacturer's Serial Number 42.AC077
4. Type Approval or Specification Number A-247/A57CE
5. Date of Manufacture 2007
6. Aircraft Inspection Cycle \_\_\_\_\_

# 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 COM</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	Ø	Ø	Ø	Ø	AIRCRAFT NEW



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



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:

<u>SERIAL NUMBER</u>	<u>REGISTRATION MARK</u>	<u>DATE</u>	<u>INSPECTOR</u>
42.AC077	N935YM	19 July, 2007	<span style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;">DA Q 42</span>



19 JULY 2007 S/N 42.AC077  
COMPASS DEVIATION, ALL ELECTRICS ON

FOR	N	30	60	E	120	150
STEER	360	031	061	090	120	150
FOR	S	210	240	W	300	330
STEER	180	210	240	270	300	331



INDEPENDENT CHECK OF FLIGHT AND POWERPLANT CONTR

<u>DATE</u>	<u>INSPECTOR</u>
19 July, 2007	<span style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;">DA Q 81</span>

July 19 2007	Ø	Ø	Ø	Ø	AIRCRAFT SERVICEABLE FOR FLIGHT
July 19 2007			1.	3	
July 20 2007			1.	3	AIRCRAFT SERVICEABLE FOR FLIGHT
July 20 2007			2.	7	
July 20 2007			4.	4	
July 23 2007			4.	4	AIRCRAFT SERVICEABLE FOR FLIGHT
July 23 2007			4.	8	
July 24 2007			4.	8	AIRCRAFT SERVICEABLE FOR FLIGHT
July 24 2007			5.	1	
AUG 27 2007			5.	1	AIRCRAFT SERVICEABLE FOR FLIGHT
AUG 27 2007			5.	8	
SEPT 14 2007			5.	8	ALL DISCREPANCIES RECTIFIED
<hr style="border: 1px solid black;"/>					
			5.	8	CARRIED FORWARD



# ENGINEERING RECORD

3

INSPECTION, REPAIRS & REPLACEMENT

SIGNATURE

LICENCE  
NUMBER

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



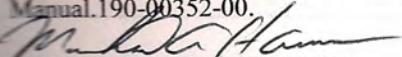
5/29/2008

N935YM

Tach: 134.1

WO# 8623

Replaced GRS77 P/N 010-00295-10 with GARMIN International New Unit, S/N 42009067,  
changed to software version 2.09 and configured per GARMIN Line Maintenance  
Manual.190-00352-00.

  
FAA Repair Station IH6R613N

**American Avionics, Inc. 7023 Perimeter Rd. Seattle, Wa 98108**

Date: 16 October 2008      N935YM      TTS:176.2hrs

Work Performed : Removed suspect roll servo KS271C p/n 065-00179-0500  
s/n 13430 and replaced with factory overhauled, warranty exchange unit s/n 12779.  
Performed inspection and ramp test in accordance with KAP 140 Flightline  
Maintenance Manual 006-15574-0002 Rev 2 Dec, 2002.

This aircraft was inspected and repaired in accordance with applicable  
maintenance rules and current FAA Regulations and in regards to the work  
performed is approved for return to service. Details are on file under work order  
number : 54019

Signed   
Inspector CRS# 1AMR980Y



# AIR TIME AND

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

Bombardier
Cessna
Diamond
Honeywell
Hawker/Beech



N935YM
Diamond DA 42
AC SN: 42.AC077
ACTT: 176.2
October 20, 2008

**AIRFRAME**

**Inspection Items & AD/SB Compliance**

1. Complied with Annual Inspection IAW FAR 91.409(a) and FAR43 Appendix (D) using Galvin Flying Services checklist.
2. Complied with ELT annual inspection IAW FAR91.207(d). ELT batteries expiration date May 2012.
3. Confirmed compliance with FAA AD2007-21-14 by visual inspection of ECU backup batteries installation per Diamond Aircraft Industries Work Instruction WI-OSB-42-050 and this AD.
4. Confirmed compliance with FAA AD2008-06-52 by visual inspection of each engine per Thielert Service Bulletin TM TAE 125-1005P1, Rev 1 and this AD.
5. Complied with the requirements of Diamond OSB-42-015/4 and WI-OSB-42-015 Rev. 3, for Certification of this the aircraft for flight into known icing. Aircraft is now certified for flight into known ice.
6. Complied with annual inspection of cabin fire extinguisher Amerex Model A-620, S/N XV-091087. Weight 2 lbs. 3.2 oz.

**General Maintenance**

1. Removed Alternator excitation batteries. Replaced with new alternator excitation batteries PN; LC-R121R3P IAW Diamond DA-42 MM, Chapter 24-30-00.
2. Removed de-ice/TKS nozzle bracket for right propeller. Removed two Cherry-max rivets. Installed Cherry-max rivets PN; CR3242-4-03 and P/N CR3212-4-03. Re-installed bracket.
3. Removed right strobe light cover and removed beacon flash tube PN; 02-0250276-00. Disassembled the wing tip light unit removed butt splices. Replaced butt splices with new Amp connector PN; AP4803030. Installed new strobe beacon flashtube PN; 02-0250276-00. Reassembled wing tip light assembly and reinstalled it in wing. Work performed referencing Diamond DA-42 MM, Chapter 30-40-00.
4. Removed aft entry door support bracket. Filled lower bracket hole with bonding paste referencing DA42 Maintenance Manual 51-20-00. Drilled and countersunk repaired hole. Reassembled aft entry door support bracket.
5. Removed rudder. Removed rudder pin bearing. Installed new rudder pin bearing PN; SCP\_8IR. Re-installed rudder. Work performed referencing DA42 MM, Chapter 27-20-00.
6. Removed and replace ECU back-up batteries with new PN; LC-R-12R2P IAW Diamond AMM Chapter 5, referencing AMM-TR-OAM-42-129.
7. Complied with annual/200-hour airframe lubrication including all wheel bearings referencing Diamond AMM Chapter 12-20-00 pages 1-5.

I certify that the items and/or aircraft identified above were inspected in accordance with an Annual/100 Hour Inspection, and/or current Federal Aviation Regulations, and are approved for return to service. Pertinent details of this work are on file at the Repair Station under Work Order No. 20608.

Signed  001 Date 10/20/2008  
 Galvin Flying Services, Inc.  
 7001 Perimeter Road, Seattle, WA 98108.  
 Repair Station HUNR846E

7-7-09 N935YM Tach 178.1 TT 178.1

1. This aircraft has been inspected and has been found safe for the intended flight in accordance with Special Flight Permit dated June 29, 2009. Flight is limited to 2.0 hours and shall be made under VFR/VMC day conditions only.

**RECAL AIR**  
PAINE FIELD - EVERETT, WA  
 10217 31st Ave W, C51  
 Paine Field, Everett, WA 98204

Brian S. Barth AP2651452

CARRIED FORWARD

# ENGINEERING RECORD

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

SIGNATURE

LICENCE  
NUMBER

**8/27/2009      N935YM      DA42    S/N 42.AC077      178.3 Tach & TT**

Complied with **RSB-42-066**, replacement of aux tank check valve, by installing Diamond kit P/N RSB-42-066-KIT in accordance with manufacturers instructions on both left and right aux fuel tank systems. Operational and leak check of both left and right aux. fuel systems was good.

Complied with **MSB-42-062 / Action 2** Replacement of the Locking Pins as terminating action. Removed old style down lock pins. Installed new style down lock pins kit P/N MSB-42-062-KIT Lot#: CS0700421. Work performed referencing WI-MSB-42-062 / Action 2.

Complied with **MSB-42-043/1** and **AD 2008-16-20** by replacement of both aileron outboard bell cranks with new style bell cranks, new rods, and new bolts provided by Diamond Kit P/N MSB-42-043 in accordance with WI-MSB-42-043 instructions. Verified proper aileron travel in accordance with DA42 M.M. Ch. 06-00-00.

Removed old stall warning horn P/N SC628ND. Installed new stall warning horn P/N SC628ND. Performed ops. check of stall horn, ops. check good at this time. Installed glare shield.

Replaced left wing safety walk with new safety walk P/N D60-1127-10-51\_1.

Removed old Nose Landing Gear Damper Assembly P/N D60-3223-14-00. Installed new Nose Landing Gear Damper Assembly P/N D60-3223-14-00. Serviced damper with 5606 hydraulic fluid and nitrogen. Work performed referencing DA42 M.M. Ch. 32-20-00.

Removed right main Landing Gear Damper Assembly P/N D60-3277-10-00. Installed new right main Landing Gear Damper Assembly P/N D60-3277-10-00. Serviced damper with 5606 hydraulic fluid and nitrogen. Work performed referencing DA42 M.M. Ch. 32-10-00.

Signature



A&P

2806462

**12/11/09      N935YM      DA42      S/N 42.AC077      Tach & Total Time: 178.3**

Tested and inspected ELT IAW FAR 91.207(d).

Performed fire extinguisher inspection and weight check referencing placarded instructions on fire extinguisher bottle.

Removed original induction air filters and installed new filters P/N RB0700 on right and left engines. Work performed referencing DA42 M.M. Ch. 71-60-00.

Drained old coolant from both engines. Serviced both engines with new coolant and water (50/50) P/N ZVW 237 105. Work performed referencing DA42 M.M. Ch. 75-00-00.

Complied with 100/200 hour lubes per DA42 M.M. Ch. 12-20-00.

Removed original batteries and installed new alternator excitation batteries P/N LC-R121R3P referencing DA42 M.M. Ch. 24-30-00.

Removed AFT L/H and R/H seat panels. Removed all four ECU backup batteries and installed four new ECU backup batteries P/N LC-R127R2P. Installed AFT L/H and R/H seat panels. Work performed referencing DA42 M.M. Ch. 24-30-00.

Installed new fluid level sensor P/N 395.462\_001\_002G, on left engine coolant reservoir.

Installed new emergency pack P/N D60-2560-91-00 referencing DA42 M.M. Ch. 24-32-00.

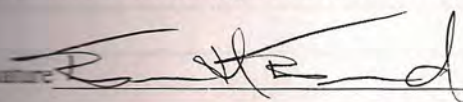
Complied with **MSB42-074/2**, nose landing gear box structure reinforcement by installation of MSB42-074/2KIT in accordance with MSB42-074/2KIT instructions.

Complied with **MSB42-070/1**. Installed a new nose gear pivot brace axle P/N D60-3233-82-32\_02 in accordance with DA42 M.M. Ch. 32-20-00. This eliminates the repetitive inspection requirement of the SB.

Complied with **MSB 42-063** by inspection and modification of the NLG centering unit mount IAW MSB 42-063.

Removed and replaced L/H and R/H main fuel filters with new filters from Thielert 100 Hour kit P/N 05-9900-S000101, referencing DA42 M.M. Ch. 28-20-00.

Signature



A&P

3155315

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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					
<p><b>American Avionics 7023 Perimeter Rd. Seattle, Wa 98108</b></p> <p style="font-size: 2em; font-weight: bold;">N <u>9354M</u></p> <p style="text-align: center;"><b>CERTIFIED AIRWORTHY</b> As required by FAR 91.411 and 91.413 Performed in accordance with FAR Part 43 appendices "E" and "F".</p> <p>2 Altimeter to <u>20,000</u> Ft.</p> <p>2 Altitude Reporting Test</p> <p>1 Static System Test</p> <p>1 Integrated System Test</p> <p>1 ATC Transponder Test</p> <p>W/O <u>60185</u> Date <u>12-1-2009</u></p> <p>Signed <u>[Signature]</u> Inspector CRS# 1AMR980Y</p>					

**12/11/2009 N935YM DA42 S/N 42.AC077 178.3 Tach & Total Time**  
 Completed Annual IAW FAR 91.409(a) and FAR43 Appendix (D), referencing Diamond DA42 Maintenance Manual Checklist. AD's checked through this date.

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

Signature [Signature] A&P / IA 538989858

1/6/2011	N935YM	DA42	S/N 42.AC077	Tach: 277.7
Replaced alternator excitation batteries with new batteries P/N LC-R121R3P referencing DA42 Maintenance Manual Chapter 24-30-00.				
Cleaned and re-sealed small portion of window seal on AFT entry door. Work performed referencing DA42 Maintenance Manual Chapter 56-10-00.				
Signature		<u>[Signature]</u>		A&P <u>2806462</u>

1/06/2011	N935YM	DA42	S/N 42.AC077	277.7 Tach & Total Time
Complied with MSB42-088/1 Inspection of MLG joint. Found right MLG joint to be cracked. Replaced right MLG joint with new MLG joint P/N D60-3217-23-51. Operational check of gear satisfactory at this time. Work performed referencing WI-MSB 42-088/1.				
Installed new left wing walk P/N D60-1127-10-51-1.				
Inspected ELT per FAR91.207 (d).				
Completed Annual IAW FAR 91.409(a) and FAR43 Appendix (D), referencing Diamond DA42 Maintenance Manual Checklist. AD's checked through this date. Inspected ELT per FAR91.207 (d).				
I certify that this aircraft has been inspected in accordance with an Annual inspection and was determined to be in an airworthy condition.				
Signature		<u>[Signature]</u>		A&P / IA <u>3155315</u>



# ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT

SIGNATURE

LICENCE NUMBER

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

AMERICAN AVIONICS, 7023 PERIMETER RD. SEATTLE, WA 98108

Date: 13 June 2011 N935YM


DA-40  
s/n 42.AC073

TTIS: 303.8 hrs

Complied with autopilot service bulletin KC 140-22-102. Bulletin performed to prevent intermittent operation.

This aircraft was inspected and repaired in accordance with applicable maintenance rules and current FAA Regulations and in regards to the work performed is approved for return to service. Details are on file under work order number : A11370

Signed

  
Thomas Kaminski

Inspector (6) CRS# 1AMR980Y

02-18-2012 Tach 338.6 N935YM SN 42.AC077

Performed **Annual** inspection per FAR 43 appendix D and per manufacturers service manual this date. Removed inspection panels & checked overall condition of aircraft. Checked flight & trim controls for proper operation. Checked electrical wiring and systems for proper operation and condition. Complied with Garmin SB0533 Rev B, (New 2010 IGRF Magnetic Field Model). Serviced battery. Inspected ELT per FAR 91.207d, expires **05-2012**. Cleaned, inspected & lubed wheel bearings. Checked flap & stall-warning system for proper operation. Complied with **AD 2011-11-07** by replacing joints Per MSB42-088/3 Rt. Joint PN D64-3217-23-00, Lt joint PN D64-3217-23-01. Performed landing gear retract test. Replace right brake pads with new PN 066-10500. Replaced both engine fuel filters. Replaced 4 backup **ECU batteries** PN LC-R127 R2P. Replaced 2 **alternator excitation** batteries PN LC-R121 R3P. Replaced **emergency backup battery pack**. Checked AD compliance. I Certify that I have inspected this airframe in accordance with an **Annual** inspection and find it in airworthy condition this date.



P. Douglas Miller  
A&P 307789261 IA