



US Department  
of Transportation  
Federal Aviation  
Administration

**MAJOR REPAIR AND ALTERATION  
(Airframe, Powerplant, Propeller, or Appliance)**

Form Approved  
OMB No. 2120-0020  
2/28/2011

Electronic Tracking Number  
For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark USA N464TS	Serial No. 42.AC064
	Make Diamond Aircraft Industries Inc.	Model DA42 NG
2. Owner	Name (As shown on registration certificate) DIMOND AIRCRAFT SALES USA INC.	Address (As shown on registration certificate) Address 1560 Crumlin Sideroad City London State Ontario Zip N5V 1S2 Country Canada

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type Manufacturer	_____	_____

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency	
Name Diamond Aircraft Industries Inc.	AMO 161-93	U. S. Certificated Mechanic	Manufacturer
Address 1560 Crumlin Sideroad		Foreign Certificated Mechanic	C. Certificate No.
City London	State Ontario	Certificated Repair Station	
Zip N5V 1S2	Country Canada	✓ Certificated Maintenance Organization	AMO # 161-93

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B	Signature/Date of Authorized Individual
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APR 05 2019

**7. Approval for Return to Service**

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is  Approved  Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No. AMO # 161-93	Signature/Date of Authorized Individual
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APR 05 2019

**NOTICE**

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

**8. Description of Work Accomplished**  
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed)

USA N464TS	April 05, 2019
Nationality and Registration Mark	Date

Diamond Aircraft Industries Inc. AMO #161-93 Work Order # SO 072130

ADS-B Installation:

Garmin GTX 345R installed per STC: SA01714WI, AML Revision Dated Jan 31. 2019  
Remote mounted, extended Squitter w/o internal GPS  
PN: 011-03303-00

SN: 3EH021939

GTX 345R approved integration with G1000, on DA42 NG, as per Table II, of AML. Installation carried out as per:

Garmin Master Drawing List (MDL) 005-00734-04, Rev. 12

Garmin GTX 3X5 ADS-B AML STC Equipment List 005-00734-05, Rev 15

Garmin GTX 3X5 Maintenance Manual 190-00734-10, Rev 11

AFM Section 9 updated with Supplement AFM – 190-00734-15 Rev 6

Instructions For Continued Airworthiness provided with Aircraft for Owner:

ICA: Chapter 4, GTX 3X5 ADS-B Maintenance Manual, DOC# 190-00734-11, rev 6

Electrical Load Analysis Provided

The installed ADS-B OUT system was shown to meet the equipment performance requirements of 14 CFR 91.227.

ATC Transponder & Altitude Reporting System(s) have been tested IAW with 14CFR 91.411: & 91.413:

ADC – Model, GDC 74A, SN: 47807779

TXPR programmed:

US Tail : N464TS

Aircraft Re Weighed W&B Amended as follows:

New Empty Weight = 1431.5 kg OR 3155.9 lbs

New E. W. C of G = 2.397 m OR 94.38 in.

New E. W. moments = 3431.5 kg m OR 297841.3 in lbs.

Max Ramp weight = 1900.0 kg. OR 4189.0 lbs.

Max useful load = 468.5 kg OR 1033.1 lbs

END

Additional Sheets Are Attached

**AIRCRAFT  
TECHNICAL  
LOGS**

**Section 1. AIRFRAME**

AIRCRAFT S/N  
42.AC064



Position: #1:    
#2:

AMO 1-77

### Altimeter Calibration Test Record

Work Order #: K45057  
Altimeter S/N: 459575

Altitude (Feet)	Tol (+/- Ft)	Altimeter Reads
-1000	20	-20
0	20	-13
500	20	-5
1000	20	+0
1500	25	+8
2000	30	+9
2500	30	+13
3000	30	+15
4000	35	+14
6000	40	+4
8000	60	-9
10000	80	-16

Altitude (Feet)	Tol (+/- Ft)	Altimeter Reads
12000	90	-19
14000	100	-25
16000	110	-20
18000	120	-18
20000	130	-5
22000	140	-
25000	155	-
30000	180	-
35000	205	-
40000	225	-
45000	230	-
50000	280	-

Hysteresis 21  
Case Leak 0  
Date 12-Sep-11

Friction 35  
After Effect 12  
Completed By

AIRCRAFT

1. Nationality and Registration N464TS
2. Manufacturer's Designation DA 42
3. Manufacturer's Serial Number 42.AC064
4. Type Approval or Specification Number A57CE
5. Date of Manufacture 2007
6. Aircraft Inspection Cycle \_\_\_\_\_

## AIR TIME AND

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

 **Diamond**

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

SERIAL NUMBER

**REGISTRATION MARK**

42.AC064

**N464TS**

FOR	N	30	60	E	120	150
STEER	360	030	061	090	119	150
FOR	S	210	240	W	300	330
STEER	179	209	238	269	299	330

17 MAY 2007 S/N 42.AC064  
COMPASS DEVIATION, ALL ELECTRICS ON

 **Diamond**

 **Diamond**

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

## INDEPENDENT CHECK OF FLIGHT AND POWERPLANT CONTROLS

DATE

## INSPECTOR

17 May, 2007

DA  
Q 23

DATE

17 May, 2007

## INSPECTOR

## ENGINEERING RECORD

1

 **Diamond**

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

ANNUAL INSPECTION DUE: MAY 2008

**BATTERY DUE: DEC 2008**

DATE

## INSPECTOR

17 May, 2007

James M. Rollard DA  
Q 23

 **Diamond**

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

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

DATE

## INSPECTOR

DA  
Q 23

17 May, 2007

# 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 COMPLETION
BROUGHT FORWARD			5.	0	



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 MAY 31 2007 *Jan. m. R. Bla. DA Q 23*

June 06, 2007. TACH : 5.5



Date: June 06, 2007, S/N: 42.AC064 Reg. #: N464TS  
W/O RO-07-159 TACH: 5.5 HRS.

The following work carried out by Diamond Aircraft Industries Inc.  
Service centre:  
RH Auxiliary fuel transfer pump purged of airlock. Fuel transfer check carried out and found to function normal.

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

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

Signature *James Bla* Lic. Or Stamp



Date: June 28, 2007

WO#: RO-07-174 S/N: 42.AC042 Reg #: N464TS TTAF: 17.1 Hrs TACH

The Following work has been carried out.

R/H Aux Fuel transfer system purged. System tested serviceable.

L/H wing removed I.A.W. DA42 AMM document number 7.02.01 rev 1 section 57-10-00 pages 201-205. Pitot/Static and TKS systems undisturbed. Fuel temperature probe replaced. Probe P/N: 5102511PFYR45 RC0608595, seal P/N: 02-7250-03-39R2 RC0601239 installed. L/H wing installed I.A.W. AMM section 57-10-00 pages 205-212. Fuel system leak checked, and L/H Aux Fuel transfer system tested serviceable. A/C ground ran and fuel temperature system tested for operation.

R/H control stick placard secured.

L/H and R/H nose baggage doors removed I.A.W. AMM 52-30-00 page 201. L/H and R/H nose baggage door seals replaced. P/N: 10-2508-8971 RC0706393 installed L/H and R/H nose baggage doors re-installed I.A.W. AMM 52-30-00 page 202.

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

DIAMOND AIRCRAFT INDUSTRIES AMO 161-93

Signature: *C. C.* Lic or Stamp: *C. C.*

CARRIED FORWARD

## ENGINEERING RECORD

2

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

John. Reh Q23

SIGNATURE  
LICENCE  
NUMBER(Date) JUN 05 2007, has been installed in the  
aircraft on behalf of NE-MIDO-46 on:(Date) JUN 05 2007(Print) R. Salter (Signature) R. Salter

WO#: RO-07-174 S/N: 42.AC042 Reg #: N464TS Date: June 28, 2007

TAA#: 17.1 Hrs TACH

I have carried out an independent inspection of the Flight/Powerplant  
controls affected by the work accomplished.

1. LH Flap controls at wing disconnect point.
2. LH Aileron controls at wing disconnect point.

The maintenance described above has been performed in  
accordance with the applicable standards of airworthiness.

DIAMOND AIRCRAFT INDUSTRIES AMO 161-93

Signature: R. Salter Lic or Stamp: DA RO22

# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETION
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					
2-19-07	25	8			

N464TS  
Model: DA 42  
S/N: 42.AC064  
Date: 19 July 2007

**KCAC**  
Kansas City Aviation Center

Tach Time: 25.8  
Total Time: 25.8  
Work Order: S-07-00256

# E N G I N E E R I N G R E C O R D

3

IN S P E C T I O N, R E P A R I S & R E P L A C E M E N T  
N T R I E S. D R A W A D I A G O N A L L I N E T H R O U G H A N Y U N U S E D L I N E S I N D A T E A N D T I M E C O L U M N S.

S I G N A T U R E  
L I C E N C E  
N U M B E R

**N464TS**  
**Model: DA 42**  
**S/N: 42.AC064**  
**Date: 18 April 2008**

**KCAC**  
Kansas City Aviation Center

Total Time: 67.8  
Tach Time: 67.8  
Work Order: S-08-00123

Replaced nose landing gear micro switch lever P/N JE-5 on forward gear up micro switch P/N 1SE-1. Accomplished all required adjustments and operational checks with satisfactory results.

I certify that this repair has been inspected and determined to be in airworthy condition. Pertinent details are on file under the above work order.

Signed John Auct

Olathe KS 66062 (913) 782-0530 FAA Repair Station #AMYR171C

**N464TS**  
**Model: DA 42**  
**S/N: 42.AC064**  
**Date: 5 January 2009**

**KCAC**  
Kansas City Aviation Center

Hobbs Time: 67.8  
Tach Time: 67.8  
Total Time: 67.8  
Work Order: S-08-00283

Compiled with an Annual inspection using Diamond DA42 inspection checklist, chapter 05-20-00 as a guide. Compiled with 12 month FAR 91.207(d) inspection of the ELT for proper installation, battery corrosion, operation of controls and sufficient radiated signal. Compiled with 100 hour/12 month replacement of left and right hand engine fuel filters, installed new filters P/N 02-7310-04740.

Compiled with 48 month magnetic compass calibration check. Compiled with 12 month replacement of left and right hand engine ECU backup batteries, installed 4 each new batteries P/N LC-R127R2P. AD 2008-16-20 Effective date September 17 2008, Aileron bell crank replacement. Compiled with MSB-42-043/1, installed new bellcranks using kit P/N MSB-42-043-KIT and new rod ends P/N DAI-9027-00-01. No further action required.

Diamond MSB 42-055, Water Circulation inspection. Compiled with service bulletin in accordance with WI-MSB-42-055 on left and right hand engines.

Compiled with 12 month replacement of alternator excitation batteries, installed 2 each new batteries P/N LC-R121R3P. AD 2008-23-08 Effective date December 22 2008, Engine mounting bolts. Found not applicable by engine serial numbers #1 SN 02-01-1249 #2 02-01-1250 not listed in Diamond MSB-42-058. No further action required.

Replaced left hand engine fuel filter assembly, installed new filter assembly P/N 02-7310-04009R2.

Replaced rudder upper hinge bearing, installed new bearing P/N SCP8.

Replaced nose wheel, installed new nose wheel P/N 40-77.

Replaced roll servo cable guard, installed new cable guard P/N 073-00288-0002.

Accomplished fuel system bleeding and all required operational and functional checks with satisfactory results. Ground performance run good, no leaks noted.

I certify that this Aircraft has been inspected in accordance with an Annual Inspection and is determined to be in airworthy condition. Pertinent details are on file under the above work order.

Signed John Auct

Olathe KS 66062 (913) 782-0530 FAA Repair Station #AMYR171C

**N464TS**  
**Model: DA 42**  
**S/N: 42.AC064**  
**Date: 28 April 2009**

**KCAC**  
Kansas City Aviation Center

Hobbs Time: 69.6  
Total Time: 69.6  
Work Order: S-09-00017

Diamond RSB 42-066, Replacement of Auxiliary Fuel Check Valve, incorporated. Installed solenoid kit P/N RSB-42-066-KIT in accordance with WI-RSB-42-066 on left and right hand sides. Removed check valve S/N 0378 (Left) and S/N 0342 (Right). Diamond MSB 42-070, Inspection of the Nose Landing Gear (NLG) Tubular Pivot Assembly. Accomplished inspection in accordance with WI-Diamond-42-070 Part III, found no gap at this time. Inspection due again at Total Time of 169.6 hours.

I certify that this repair has been inspected and determined to be in airworthy condition. Pertinent details are on file under the above work order.

Signed John Auct

Olathe KS 66062 (913) 782-0530 FAA Repair Station #AMYR171C

**N464TS**  
**Model: DA 42**  
**S/N: 42.AC064**  
**Date: 2 October 2009**

**KCAC**  
Kansas City Aviation Center

Hobbs Time: 69.6  
Total Time: 69.6  
Work Order: S-09-00299

Polished out scratches on inner surface of the canopy co-pilot side.

I certify that this repair has been inspected and determined to be in airworthy condition. Pertinent details are on file under the above work order.

Signed John Auct

Olathe KS 66062 (913) 782-0530 FAA Repair Station #AMYR171C

W44715

KCAC  
Kansas City Aviation Center

Correction Card

CRS #AMYR171C

Altitude P/N:  
42474  
Model: D  
S/N: 42  
Date: 17

W/O #: 401-024  
Date: 9/06/09

Obbs Time: 69.9  
Total Time: 69.9  
Work Order: S-09-00347  
A-09-00024  
A-09-00026

Test	Altitude Reads	Altitude Reads
Compiled w new pack P.	-1000	12000
Compiled w 0	0	14000
Compiled w 500	5250	16000
Compiled w 1000	10250	18000
Tested and found to co 1500	15250	20000
Tested and found to co 2000	20250	22000
Tested and found to co 3000	2990	25000
F of FAR 4: Removed a	3990	30000
Removed p DA42 AMM	5990	35000
Accomplish	8000	40000
	10000	45000
	9990	

I certify that the work

above work order

Signed

727

Olathe KS 66062 (913) 782-0530 FAA Repair Station #AMYR171C

are on file under the

Airframe

N464TS  
Model: DA42  
S/N: 42.AC064  
Date: 1 June 2010

KCAC  
Kansas City Aviation Center

Hobbs Time: 69.9  
Total Time: 69.9  
Work Order: S-10-00018

Compiled with an Annual Inspection using Diamond DA42 AMM 05-20-20 Annual Inspection form as a guide to comply with the inspection requirements of FAR 43 Appendix D.

Compiled with 12 month replacement of the alternator excitation battery by installing 2 new batteries P/N LC-R121R3P per Diamond DA42 AMM 24-30-00.

Compiled with 24 month hydraulic system fluid replacement and installed new filter P/N X11-0004-HC0465FDS32.

Compiled with 2000hr / 24 month landing gear damper hydraulic fluid replacement per Diamond DA42 AMM 32-10-00 and 32-20-00

Compiled with 12 month 14 CFR 91.207(d) inspection of the ELT for proper installation, corrosion and operation of controls and sufficient radiated signal.

Compiled with 12 month compass calibration swing.

Compiled with 50hr / 12 month fuel filter replacement for left and right engines by installing new filters P/N 02-6120-16150R1 per Diamond DA42 AMM 28-20-00.

Compiled with Diamond MSB 42-0621, dated 13 Nov 08, by installing kit P/N MSB-42-602-KIT per WI-MSB-42-062 instructions.

Compiled with Diamond MSB 42-0743, dated 29 Jan 2010, by installing kit P/N MSB-42-074-KIT per WI-MSB-42-074/2 instructions.

Installed new bolt P/N LN9037-M6X75 in the left MIG down lock hook assembly.

Accomplished all required operational and functional checks with satisfactory results. Ground performance run good, no leaks noted.

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

Permitent details are on file under the above work order.

Signed 727 Olathe KS 66062 (913) 782-0530 FAA Repair Station #AMYR171C

Airframe

N464TS  
Model: DA42  
S/N: 42.AC064  
Date: 26 October 2010

KCAC  
Kansas City Aviation Center

Tach Time: 89.6  
Total Time: 89.6  
Work Order: S-10-00312

Installed cabin door lock kit P/N 3802-0022 in forward and aft doors and replaced door lock cam P/N 623-062-454 in the forward cabin door per Diamond DA42 AMM 52-10-00.

The Aircraft identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service. Permitent details are on file under the above work order.

Signed 727 Olathe KS 66062 (913) 782-0530 FAA Repair Station #AMYR171C

CARRIED FORWARD

# E N G I N E E R I N G R E C O R D

4

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



Date: August 20, 2011  
WO#: RO-11-092 S/N: 42.AC064 Reg #: N464TS TACH: 100.9 Hrs.  
LH Propeller MTV-6-A-C-F/CF187-129 S/N:061180 TSN: 100.9 Hrs.  
The Following work has been carried out:  
Date of Manufacture Dec. 19, 2006 TSN: 100.9 Hrs. removed this date for  
Overhaul and conversion of mounting flange from "A" to "R" version I.A.W  
MT-propeller issued SI No. 48 to be eligible for reinstallation on DA 42NG  
Austro Engine equipped Aircraft.

The maintenance described above has been performed in  
accordance with the applicable standards of airworthiness.

DIAMOND AIRCRAFT INDUSTRIES AMO 161-93

Signature Spencer • Lic or Stamp DA  
R06

Date: August 20, 2011  
WO#: RO-11-092 S/N: 42.AC064 Reg #: N464TS  
RH Eng. TAE 125-01 S/N: 02-01-1250 TSN: 100.9 Hrs.

The following work carried out:  
RH Thielert Engine TAE 125-01 S/N: 02-01-1250 TSN: 100.9 Hrs. removed of  
DA42.AC064 in serviceable condition this date to facilitate installation of  
Austro engine I.A.W. OSB-42-068/1.  
Engine cylinder compression readings taken are as follows.  
#1cyl 80/80, #2cyl 80/80, #3cyl 68/80, #4cyl 80/80.  
The maintenance described above has been performed in accordance with  
the applicable standards of airworthiness.

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

Signature Spencer • Lic. Or Stamp DA  
R06



Date: August 29, 2011 S/N: 42.AC064 Reg #: N464TS  
W/O RO-11-092 TACH: 100.9 HRS.  
LH Eng. TAE 125-01 S/N: 02-01-1249 TSN: 100.9 Hrs.

The following work carried out:  
LH Thielert Engine TAE 125-01 S/N: 02-01-1249 TSN: 100.9 Hrs. removed of  
DA42.AC064 in serviceable condition this date to facilitate installation of  
Austro engine I.A.W. OSB-42-068/1.  
Engine cylinder compression readings taken are as follows.  
#1cyl 78/80, #2cyl 61/80, #3cyl 50/80, #4cyl 73/80.  
The maintenance described above has been performed in accordance with  
the applicable standards of airworthiness.

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

Signature Spencer • Lic. Or Stamp DA  
R06

**WO # RO-11-092 A/C DA 42 NG S/N: 42.AC064 Reg: N464TS TACH: 100.9 Hrs.**

**LHE Austro E4-B S/N: E4-B-00217 TSN: 0.0 Hrs.**

**RHE Austro E4-B S/N: E4-B-00216 TSN: 0.0 Hrs.**

**LH Prop. Mt-propeller MTV-6-R-C-F/CF187-129 S/N: 071243 TSN: 0.0 HRS.**

**RH Prop. Mt-Propeller MTV-6-R-C-F/CF187-129 S/N: 070579 TSN: 0.0 HRS.**

**The Following work has been carried out:**

**Diamond Aircraft Industries GmbH issued Optional Service Bulletin 42-068/1, conversion to variant DA42NG WI-OSB42-068 Rev.9 compiled with using Materials kit Appendix. A. Rev. 8 and Appendix B Rev. 5.**

New Propeller MTV-6-R-C-F/CF187-129, S/N 071243 TSN: 0.00 Hrs. Installed on LHE I.A.W. chapter 61 of DA 42 NG AMM Doc. # 7.02.15 Rev 1. After embodiment of Mt-Propeller issued SI No. 48C carried out by Hope Aero Propeller per their W/O # T90908 dated April 20, 2011.

New Propeller MTV-6-R-C-F/CF187-129, S/N 070579 TSN: 0.00 Hrs. Installed on RHE I.A.W. Chapter 61 of DA 42 NG AMM Doc. # 7.02.15 Rev 1. After embodiment of Mt-Propeller issued SI No. 48C carried out by Hope Aero Propeller per their W/O # T90906 dated April 20, 2011.

LH prop Accumulator P-893-1 S/N 06A458 & RH prop Accumulator P-893-1 S/N 06A464 TSN: 100.9 Hrs. removed for overhaul. Overhauled prop Accumulator P-893-1 C S/N 07A306 TSOH: 0.00 Hrs. installed on LH. Overhaul of the unit carried out by Mt-Propeller USA Inc. per their W/O # 11-337MT dated September 07, 2011 & Overhauled Prop Accumulator P-893-1 C S/N: 08A006 TSOH: 0.00Hrs. Installed on RH. Overhaul of the unit carried out by Mt-Propeller USA Inc. per their W/O # 11-338MT dated September 07, 2011.

LH Thielert Engine TAE 125-01, S/N 02-01-1249 TSN: 100.9 hrs removed and replaced with new "0" time Austro Engine model E4-B, S/N E4-B-00217 I.A.W. WI-OSB42-068 Rev. 9 Appendix 2 Rev. 3.

RH Thielert Engine TAE 125-01, S/N 02-01-1250 TSN: 100.9 hrs removed and replaced with new "0" time Austro Engine model E4-B, S/N E4-B-00216 I.A.W. WI-OSB42-068 Rev. 9 Appendix 2 Rev. 3.

Both LH & RH newly installed Engines serviced with 7 litres each with Shell Helix 5W30 oil.

LH & RH gearbox serviced with 2 litres each with Shell Spirax GSX 75W80 gearbox oil.

LH & RH cooling systems serviced with a 50/50 mixture of distilled water and Glysantin G48 antifreeze.

LH & RH High Pressure fuel pumps checked and found new fuel pumps P/N E4A-30-200-000 issue 000. previously installed by the Engine Manufacturer Austro Engine. Terminating the 50 Hr. repetitive fuel oscillation inspections.

Nacelle Fuel System installation carried out I.A.W. WI-OSB42-068 Rev. 9 Appendix 1 Rev.2.

Ground Run up of the engines and fluid leak check performed, found to be satisfactory.

Honeywell KAP140 autopilot system removed. Garmin GFC700 with Yaw Damper installed

I.A.W. WI-OSB42-068 Rev. 9 Appendix 3. Rev. 1.

Function check of the system carried out and found satisfactory.

SVT card unlocked and activated.

Landing gear installation carried out I.A.W. WI-OSB42-068 Rev. 9 Appendix 4. Rev.2.

New nose Landing gear Hydraulic actuator P/N D60-9029-03-01\_1S/N 0912 installed.

Landing Gear retraction check carried out I.A.W. DA 42NG current issue of AMM chapter 32.

Airspeed indicator model code B864 removed and replaced with new unit model code B884 S/N 205815 due for recertification at 2100.9 hrs or Oct. 2015. VSI checked for correct indication.

Altimeter S/N 459575 removed & reinstated after calibration check performed by Kitchener aero avionics dated Sep. 12, 2011 under their work order # K45057

Pilot static & Transponder Co relation check carried out.

Compass swing carried out.

Radios on: Liquid Compass

FOR	N	30	60	E	120	150
STEER	360	031	061	091	121	151
FOR	S	210	240	W	300	330
STEER	181	210	240	270	300	330

Radios On: HSI

FOR	N	30	60	E	120	150
STEER	360	031	060	090	121	151
FOR	S	210	240	W	300	330
STEER	181	212	240	269	299	330

**Aircraft Re Weighed:**

New Empty weight = 1442.4 kg or 3180.0 lbs

New E.W. C of G = 2.365m or 93.12 in.

New E. W. Moments = 3411.7 kg-m or 296126.2 in-lbs

Max all up Weight = 1900 kg or 4189 lbs

New useful Load = 457.6 kg or 1009.0 lbs

New weight and balance report and equipment list added to section 6 of the Current AFM Doc # 701.15-E Rev. 2 dated November 2009. All Placards checked for conformance. All flight control surfaces checked for travels.

This DA42 is converted to a DA42NG as per OSB42-068/1 and is eligible for TCDS A57CE Rev. 12 as per note 10.

New Data Plate installed. All snags noted during the above described tasks have been rectified and all pertinent details of the work carried out are on file with this work order.

# CONVERSION

## IN E E R I N G R E C O R D

The following DAI service bulletins C/W during OSB42-068/1:

Austro Engine RSB-E4-003/7 – Engine Software Version updated to VCC33\_0\_05\_13 C/W.

Austro Engine MSB-E4-006 – N/A due to Eng. S/N affectivity

Austro Engine MSB-E4-007 – N/A due to Eng. S/N affectivity.

Austro Engine MSB-E4-008/1 – LH and RH Eng. Oil separator hoses N/A due to Eng. S/N affectivity.

Austro Engine MSB-E4-009/2 – N/A New High pressure fuel pumps installed by Austro Engine Terminates 50 Hr. Repetitive Insp.

Austro Engine MSB-E4-013/1 – Gearbox oil Insp. to be C/W within 10 flight hours but not later than Dec. 31, 2011.

MSB42NG002/7 – Software E4-B (AE300) engine C/W. Software version VCC33\_0\_5\_13

MSB42NG-003/8 – G 1000 Software version update C/W. Version 010-00670-04. (NON WAAS)

MSB 42NG-005/1 – Charged Air tube between Turbo charger & Intercooler C/W.

MSB42NG-007 – Emergency Exit lever Insp. & map light sealant C/W.

OSB42NG-008 – Installation of coated safety walk C/W.

MSB42NG-010 – Installation of a protective mesh on coolant and charged air radiator C/W.

OSB42NG-013 – Cowling with improved cooling performance C/W.

MSB42NG-014 – Replacement of Passenger door retaining bracket P/N DA4-5200-00-69\_1 per Action #1 C/W.

MSB42NG-016/1 – Rudder control System & NLG steering reinforcement C/W. NOTE: Repetitive inspection is now Terminated.

RSB42NG-017/1 – Replacement of seals in MLG Dampers C/W.

MSB42NG-018/1 – Replacement of turbo connector Assy. C/W

OSB42NG-019 – Installation of fuel Pressure Pulsation damper C/W as part of revision 9 of OSB 068/1

MSB42NG-022 – EASA AD 2011-0100 Repair of upper center wing skin to spar bond N/A due to A/C S/N affectivity.

OSB42-023 – Optional retrofit of the Oxygen system carried out I.A.W. WI OSB 42-023

OSB42NG-025 – Installation of a heating inlet scoop. C/W as per Conversion OSB 42-068 Rev. 9.

MSB42-031/1 – LH & RH MLG Rib re enforcement N/A due to A/C S/N affectivity.

MSB42-032/1 – Aux fuel tank vent hole Insp. N/A due to A/C S/N affectivity.

MSB42-063/1 – Inspection & mod of the NLG centering unit C/W as part of revision 9 of OSB 068/1

OSB42-068/1 – Conversion from Thielert engines to Austro Engines C/W.

MSB42-088/3 – MLG joint inspection and replacement N/A as P/N D64-3217-23-0x is installed as part of revision 9 of OSB 068/1

MSB42-091 – MLG Bearing housing inspection C/W. Repetitive Every 200Hrs. Install Replace parts By June 28, 2012.

RSB42-025 – Improved fuel probes installation PCW.

RSB42-029 – Additional position pins for canopy C/W as part of revision 9 of OSB 068/1

RSB42-056 – LH & RH aux tanks check valve and solenoid PCW.

RSB-42-072/2 – LH & RH Engines heat detectors P/N X2003-2 Sealed for water protection C/W as part of revision 9 of OSB 068/1

MT Propeller SI48C - LH and RH propeller modification from "A" flange to "R" flange C/W.

Garmin MSB 0823 Rev.C. - GDU/CRS/BARO knob interference check C/W.

Garmin MSB 0533 Rev. B GRS77IGRF Earth's Magnetic field C/W.

AD 2005-01-19 – N/A as Garmin GTX33 software version is at 5.01.

AD 2008-16-20 Replacement of aileron bell crank rod ends PCW.

AD 2010-11-09 - Proportional Pressure reducing Valve N/A to Austro Engines.

AD 2011-10-13 – Passenger door retaining bracket with improved Version P/N DA4-5200-00-69\_1 C/W. as per MSB42NG-014.

AD 2011-11-07 – MLG joint inspection & replacement N/A as P/N D64-3217-23-0x is installed.

AD 2011-18-19- LH & RH High Pressure Pumps fuel oscillation check. N/A as New fuel pumps per MSB-E4-009/2 are installed.

AWDS checked through Bi-Weekly Supplement 2011- 22

The maintenance described above has been performed in accordance with the applicable standards of Airworthiness.

### DIAMOND AIRCRAFT INDUSTRIES AMO 161-93

This aircraft is released subject to the completion of a satisfactory test flight for the evaluation of flight, engine and avionics performance.

Signature: DA Ro7 Lic or Stamp:

WO # RO-11-092 A/C DA 42NG S/N: 42.AC064 Reg: N464TS TACH: 100.9 hrs.

LHE Austro E4-B S/N: E4-B-00217 TSN: 0.00 Hrs.

RHE Austro E4-B S/N: E4-B-00216 TSN: 0.00 Hrs.

LH Prop. Mt-Propeller MTV-6-R-C-F/187-129 S/N: 071243 TSN: 0.00 Hrs.

RH Prop. Mt-propeller MTV-6-R-C-F/187-129 S/N: 070579 TSN: 0.00 Hrs.

**The Following work has been carried out:**

1000 hr inspection carried out I.A.W. DA42NG AMM Doc. 7.02.15 Rev. 1 chapter 04-00-00, & chapter 05-00-00.

Annual performance check on ME406 ELT S/N 01863 carried out. Next performance check due October, 2012. ELT battery due for replacement February 2018. Emergency battery pack replaced with new. Next replacement due October 2013.

New ECU backup batteries installed. Next batteries replacement due October 2012.

Autopilot mechanical check carried out. Next due October, 2012 or at TACH: 600.9 hrs.

Altimeter S/N 459575 removed and reinstalled after rectification carried out by Kitchener Aero WO # K45057. Next recertification due Sep. 12, 2013 or at TACH:1100.9. Pitot static and transponder correlation checks carried out. Next check due October, 2013 or at 1100.9 Hrs. Electrical Bonding system and static discharging system check carried out. Next check due 1100.9 hrs or Oct. 2015. Mid section Rudder cables replaced with new as per GFC 700 installation. Forward & aft rudder cables are original & will be due for replacement at TACH time of 3000hrs. OR June 2012.

LH and RH fuel filter elements replaced with new. Brake fluid drained and replenished with new Aeroshell fluid 4. Brake system bled. Next brake system fluid replacement due October 2014. Hydraulic fluid in landing gear dampers replaced. Next fluid change due Oct. 2013 or 2100.9 hrs. Hydraulic system fluid replaced. Next fluid change due Oct. 2013 or TACH TIME: 2100.9 Hrs. All wheel bearings cleaned, inspected and serviced with fresh grease Aeroshell 22. LH & RH MLG Brake discs & linings replaced with new. Landing Gear retraction check carried out including check of all audible warnings and determined to be satisfactory. Airspeed indicator & VSI checked for correct indication. Next check due Oct. 2015 or 2100.9 Hrs. Fuel hoses interconnecting the individual fuel tank chambers replaced with new. Next replacement due Oct. 2019. Both LH and RH newly installed engines serviced with 7 liters each Shell Helix 5W30 oil. LH and RH gearbox serviced with 2 liters each Shell Spirax GSX 75W80 oil. Engine cooling system serviced with a 50/50 mixture of distilled water and glycol Glysantin G48. Next coolant change due Oct. 2013 or TACH:700.9 Hrs. Wings inspected as per AMM chapter 05 inspection sheets and wings reinstalled. Rudder and stab removed inspected and reinstalled I.A.W. chapter 27 of the DA 42NG AMM. All flight control surfaces travel checks carried out I.A.W. chapter 6 of the DA42NG AMM. Independent check of the engine and flight controls affected by the described work carried out. Gill Battery G-243 removed and new Concorde RG24-15M Battery S/N: 40451140 installed.

TKS system windshield pump #1 P/N WP209A S/N AST06K577 removed and replaced with a new pump S/N AST08C751.

Operational check of the TKS system performed and determined to be satisfactory.

Hand held Fire Extinguisher Amerex A620 S/N XV-87196 Annual weight checked 2.264 lbs. and pressure check carried out.

Oxygen system installation carried out I.A.W optional OSB 42-023 work instructions.

Oxygen Cylinder P/N 4110-120-2 Rev. E. S/N 10282 installed with regulator valve P/N 4110-1402 S/N 14218.

Oxygen system filled to required capacity I.A.W. the work instructions and checked for leaks & operation and found satisfactory. Garmin G1000 database update carried out. Synthetic Vision SVT activated. All Limitation placards checked for conformance I.A.W. current issue of the AFM Section 2.15. G1000 data bases updated, Safe taxi, Obstacle, Expire November.17, 2011 Jeppesen Flight charts, Airport directory Expire November 17, 2011.

All snags noted during the above described tasks have been rectified and all pertinent details of the work carried out are on file with this work order.

Ground run up of the engines, & fluid leak checks performed and determined to be satisfactory.

Magnetic compass swing carried out.

Radio's on: Liquid Compass

FOR	N	30	60	E	120	150
STEER	360	031	061	091	121	151
FOR	S	210	240	W	300	330
STEER	181	210	240	270	300	330

**Following AWD's and SB's checked and complied with as applicable:**

Austro Engine RSB-E4-003/7 – Engine Software Version updated to VC33\_0\_05\_13 C/W.

Austro Engine MSB-E4-006 – N/A due to Eng. S/N affectivity

Austro Engine MSB-E4-007 – N/A due to Eng. S/N affectivity

Austro Engine MSB-E4-008/1 – LH and RH Eng. Oil separator hoses N/A due to Eng. S/N affectivity.

Austro Engine MSB-E4-009/2 – N/A New High pressure fuel pumps installed by Austro Engine Terminates 50 Hr. Repetitive Insp.

Austro Engine MSB-E4-013/1 – Gearbox oil inspection to be C/W within 10 flight hours but not later than Dec. 31, 2011.

MSB42NG002/7 – Software E4-B (AE300) engine C/W. Software version VC33\_0\_5\_13

MSB42NG-003/8 – G1000 Software version update C/W. Version 010-00670-04 (NON WAAS)

MSB 42NG-005/1 - Charged Air tube between Turbo charger & Intercooler C/W.

MSB42NG-007 - Emergency Exit lever Insp. & map light sealant C/W.

OSB42NG-008 – Installation of coated safety walk C/W.

MSB42NG-010 – Installation of a protective mesh on coolant and charged air radiator C/W.

OSB42NG-013 – Cowling with improved cooling performance C/W.

MSB42NG-014 – Replacement of Passenger door retaining bracket P/N DA4-5200-00-69\_1 per Action #1 C/W.

MSB42NG-016/1 – Rudder control System & NLG steering reinforcement C/W. NOTE: Repetitive Inspection is now Terminated.

RSB42NG-017/1 – Replacement of seals in MLG Dampers C/W.

MSB42NG-018/1 – Replacement of turbo connector Assy. C/W

OSB42NG-019 – Installation of fuel Pressure Pulsation damper C/W as part of OSB42-068/1 rev 9

MSB42NG-022 – EASA AD 2011-0100 Repair of upper center wing skin to spar bond N/A due to S/N of Aircraft

OSB42NG-025 – Installation of a heating inlet scoop C/W as per conversion OSB 42-068 Rev. 9.

MSB42-031/1 – LH & RH MLG Rib reinforcement N/A due to S/N of A/C.

MSB42-032/1 – Aux fuel tank vent hole insp. N/A due to A/C S/N affectivity.

MSB42-063/1 – Inspection & mod of the NLG centering unit C/W as part of OSB42-068/1 rev 9

OSB42-068/1 – Conversion from Thielert engines to Austro Engines C/W.

FOR COMPLETION

## ENGINEERING RECORD

6

INSPECTION, REPAIRS & REPLACEMENT ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
MSB42-088/3 – MLG joint inspection and replacement N/A as P/N D64-3217-23-0x has been installed as part of OSB42-068/1rev 9		
MSB42-091 – MLG Bearing Housing inspection C/W. Repetitive every 200 Hrs. Install Replacement parts by June 28, 2012.		
OSB42-023 – Installation of the Oxygen system C/W. I.A.W. work instructions WI MSB42-023.		
RSB42-025 – Improved fuel probes installation PCW.		
RSB42-029 – Additional position pins for canopy C/W as part of OSB42-068/1 rev 9		
RSB42-066 – LH & RH aux tanks check valve and solenoid PCW.		
RSB42-072/2 – LH & RH Engines heat detectors P/N X2003-2 Sealed for water protection C/W as part of OSB42-068/1 rev 9		
MT Propeller SI48C - LH and RH propeller modification from "A" flange to "R" flange C/W.		
Garmin MSB 0823 Rev.C. - GDU CRS/BARO knob interference check C/W.		
Garmin MSB 0533 Rev. B GRS77 IGRF Earth's Magnetic field C/W.		
AD2005-01-19 – N/A as Garmin GTX33 software version is at 5.01.		
AD 2008-16-20- Replacement of aileron bell crank rod ends PCW.		
AD 2010-11-09 - Proportional Pressure reducing Valve N/A to Austro Engines.		
AD 2011-10-13 – Passenger door retaining bracket with improved version P/N DA4-5200-00-69_1 C/W as per MSB42NG-014.		
AD2011-11-07 – MLG joint inspection & replacement N/A as P/N D64-3217-23-0x is installed.		
AD2011-18-19 – LH & RH High Pressure Pumps fuel oscillation check. N/A New fuel pumps as per MSB-E4-009/2 are installed.		
AWDS checked through Bi-Weekly Supplement 2011- 22		
The maintenance described above has been performed in accordance with the applicable standards of airworthiness.		
Signature: <u>John Koenig</u> Lic or Stamp: 		
I have carried out an independent inspection of the Flight controls/Powerplant controls affected by the work accomplished.		
Signature: <u>Patricia Phillips</u> Lic or Stamp: 		
This aircraft is released subject to the completion of a satisfactory test flight for the evaluation of flight, engine and avionics performance.		
Signature: <u>John Koenig</u> Lic or Stamp: 		



Date: October 19, 2011

WO # RO-11-092 A/C DA 42NG S/N: 42.AC064 Reg: N464TS TACH: 100.9 Hrs.

"I certify that the Static Pressure system has been inspected and tested in accordance with Chapter 571.10, Appendix B Paragraph (a) 4(1) of the CARs, FAR 91.411, FAR 43 appendix E and Chapter 12 section 4 Paragraph 12-57 of the AC 43.13-1B.2A."

Transponder correlation requirements completed I.A.W. 571 appendix F, 571.10, Appendix B paragraph (a)4(1) of the CARs, FAR 91.411, FAR 91.413, FAR 43 appendix E & F, and chapter 12, section 4, paragraph 12-57 of the AC43.13-1B.

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

DIAMOND AIRCRAFT INDUSTRIES AMO 161-93

Signature: John Koenig Lic or Stamp: 

## AIR TIME AND

# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
	HRS.	MIN.	HRS.	MIN.
BROUGHT FORWARD	—	—	103	0
OCT 24 2011	0	.5	103	.5
OCT 26 2011	—	—	103	.5
			103	.5
OCT 27 2011	0	.3	103	.8
			103	.8

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

## ENGINEERING RECORD



Date: October 21, 2011

S/N: 42.AC064

TSN: 103.0HRS

LHE Austro E4-B S/N: E4-B-00217 TSN: 2.1 Hrs.

RHE Austro E4-B S/N: E4-B-00216 TSN: 2.1 Hrs.

W/O RO-11-092  
Reg. #: N464TS

### The following work carried out:

Austro engine MSB-E4-013/1 Gearbox oil inspection carried out on LHE S/N E4-B-00217 gearbox S/N 283 and RHE S/N E4-B-00216 gearbox S/N282. Magnetic drain plug and gearbox oil inspection found to be within The acceptable limits as specified in Austro engine maintenance manual E4.08.04 Revision .9

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

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

Signature John Johnson

Lic. Or Stamp

DA  
RO6



Date: October 26, 2011 S/N: 42.AC064 Reg. #: N464TS  
W/O RO-11-092 TACH: 103.5 HRS.

### The following work carried out:

G1000 chartview card P/N 010-00330-53 unlocked.

NLG uplock microswitch adjusted and gearswing carried out to verify that all gear warning lights function normal during gear retraction.

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

This Aircraft is Released subject to the completion of a satisfactory Test flight for evaluation of the normal functionality of the gear lights.

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

DA  
RO6

Signature John Johnson

Lic. Or Stamp



I have flown this aircraft in accordance with FAR 91.407, and determined that the landing gear warning lights functioned normal during this check flight

OCT 27 2011

Date

John Johnson

Signature

DA  
Q 134

Licence

## AIR TIME AND

**CARRIED FORWARD**

## ENGINEERING RECORD

**INSPECTION, REPAIRS & REPLACEMENT**  
FINAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

## SIGNATURE

LICENCE  
NUMBER



SouthTecAviation

3330 AIRPORT LOOP  
SALISBURY, NC 28147

INFO@SOUTHTECAVIATION.COM

OFFICE: 704-431-6862

DATE: OCTOBER 27, 2023 | DIAMOND DA42 NG | S/N: 42.AC064 | REG: N594ER  
TACH: 1954.3 HRS. TTAFF: 1954.3 HRS.

100 HOUR INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH DIAMOND AIRCRAFT DA42 NG AMM AND DIAMOND AIRCRAFT INSPECTION CHECKLIST.

AD'S CHECKED THROUGH BI-WEEKLY 2023-22. LIST IN LOGBOOKS.

AD 2016-23-03 INSPECTION OF V BAND CLAMP. COMPLIED WITH AD BY INSPECTION OV V BAND CLAMP PER

**AD 22-21-15 DUE LOOSE RUDDER T-YOKE AXLE NUT, COMPLIED WITH AD 22-21-15 USING WI-RSB-139 AND WI-RSB-081 REVISION 1 DATED OCTOBER 24, 2019.**

- ELT TESTED IN ACCORDANCE WITH FAR 91.207(D). ELT BATTERY EXP: **APRIL 2024**
- FIRE EXTINGUISHER REPLACEMENT DUE: **2030**
- INSPECTED AND REPACKED WHEEL BEARINGS.
- REPLACED LEFT AND RIGHT FUEL FILTERS P/N: **WK724\_3**.
- REPLACED RIGHT BRAKE LININGS P/N: **RA66-105**.
- REPLACED RIGHT MAIN TIRE P/N: **156E61-3**.
- REPAIRED BONDING STRAPS AS NECESSARY.
- REPLACED FLAP POSITION INDICATOR BULB P/N: **T4.6 24/20 24V**.
- 1000 HR OR 4 YEARS** BONDING SYSTEM AND STATIC DISCHARGING SYSTEM TESTED PER CHAPTER 51-80
- REPLACED RIGHT WING OUTBOARD STATIC WICK
- REPLACED LEFT WING OUTBOARD STATIC WICK
- REPLACED LEFT WING INBOARD STATIC WICK

I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

  
GLENN LAWLER

A&P 2151929 IA



# ENGINEERING RECORD

10



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

SIGNATURE

LICENCE  
NUMBER

**DIAMOND AIRCRAFT INDUSTRIES GmbH.**  
PART-145 APPROVED MAINTENANCE ORGANISATION  
AT.145.073 WIENER NEUSTADT/AUSTRIA

200 (hours)

hours inspection according Part-145 manufacturer

DIRECTIONS 100 Hrs. & Annual performed



**REG.No.: N464TS**

**Airframe: Diamond DA 42-NG**

**100 Hrs. & Annual Inspection**

Workreport "Work Order No":

approved maintenance data in acc.:  
AD-compliance (see workreport)

by : Diamond Aircraft Industries GmbH  
AMM Doc.No.7.02.15 Rev.2, 31-Mar-2012  
ATP File:N464TS\_17.10.2013 Rev. 15.10.2013

I certify that this Aircraft has been inspected scope and detail in acc. with 100  
Hrs.&Annual insp. conf. FAR- Part 43 App.D and was determined to be in airworthy  
condition.

TT : 258,80  
TSO : 258,80  
Garmin Time : 258,80  
[www.stefenelli.com](http://www.stefenelli.com)

s/n.: 42.AC064

ASOEX130086

Date: Oct. - 17 -2013

Ing.Joerg v. Stefenelli

A&P-IA 3050916

tel.: +43(676)615 9 677



## AIR TIME AND

# ENGINEERING RECORD

11



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

SIGNATURE

LICENCE  
NUMBER

<b>Diamond</b> AIRCRAFT			N A. Otto-Strasse 5, A-2700, Wiener Neustadt, AUSTRIA	
Reg:	<b>N464TS</b>	WR No.: <b>076/15SAs</b>	Date: <b>23.10.15</b>	
Make:	Diamond Inc.	Model: DA42 NG	S/N: 42.AC064	
Hobbs:	411.0	Flight time: 411.0		
Engine: A300		S/N: E4-B-00217	TSN: 311.0	
Engine: A300		S/N: E4-B-00216	TSN: 311.0	
Prop: MTV-6-A-C-F/C		S/N: 80090	TSN/TSO: 1601:18 / 84.0	
Prop: MTV-6-A-C-F/C		S/N: 3610	TSN/TSO: 487:09 / 84.0	
Complied with:		Next Annual inspection: Oct.2016 200h/Annual inspection performed i.a.w. Diamond DA42NG AMM and FAR43 appx.D		
		- 300h inspection on both engine performed. - Bonding and static discharging system test performed. - Emergency battery package replaced. Next due Oct. 2017 - ECU backup batteries for both engine replaced. Next due Oct. 2016 - ELT annual function test performed. - Mag. Compass swing performed. - AD CONFORMETY CHECKED BEWEEKLY: 2015-21 - MSB E4-014/2 Replacement of fuel return line and banjo fitting performed. - RSB E4-018 Inspection of engine harness performed. - Additional work WR: 076/2015SAs		
I CERTIFY THAT THIS AIRFRAME/ENGINE/PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH SCOPE AND DETAIL OF FAR PART 43D FOR A 100H/ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION, ALL THE WORK SPECIFIED EXCEPT AS OTHERWISE SPECIFIED WAS CARRIED OUT IN ACCORDANCE WITH PART 43 OF THE U.S.FEDERAL REGULATIONS, AND IN RESPECT TO THAT WORK THE AIRCRAFT/AIRCRAFT COMPONENTS IS CONSIDERED READY FOR RELEASE TO SERVICE				
Place:		Swiss Aviationsupport, Hartbertstrasse 17, CH-7000 Chur Airport Wr-Neustadt (LOAN) <b>Martin Barth</b> A&P 2801493 I.A.		
		  <b>Martin A. Barth</b> <b>2801493 I.A.</b>		
		 <b>Martin A. Barth</b> <b>2801493 I.A.</b>		
		<b>A&amp;P 2801493 I.A.</b>		

<b>Diamond</b> AIRCRAFT			N A. Otto-Strasse 5, A-2700, Wiener Neustadt, AUSTRIA	
Reg:	<b>N464TS</b>	WR No.: <b>060/2016SAs</b>	Date: <b>26.04.2016</b>	
Make:	Diamond Inc.	Model: DA42 NG	S/N: 42.AC064	
Hobbs:		Flight time: 436.2		
Engine: A300		S/N: E4-B-00217	TSN: 336.2	
Engine: A300		S/N: E4-B-00216	TSN: 336.2	
Prop: MTV-6-A-C-F/C		S/N: 80090	TSN/TSO: 1711.2/109.2	
Prop: MTV-6-A-C-F/C		S/N: 03610	TSN/TSO: 596.2/109.2	
Complied with:		- Pitch trim servo GFC 700 p/n: 011-00878-00 replaced. S/N: Removed 66413371 Installed 66407805 - Additional work WR: 060/2016SAs and Diamond Aircraft ASOEX150319		
I CERTIFY THAT THE WORK SPECIFIED EXCEPT AS OTHERWISE SPECIFIED WAS CARRIED OUT IN ACCORDANCE WITH PART 43 OF THE U.S.FEDERAL REGULATIONS, AND IN RESPECT TO THAT WORK THE AIRCRAFT/AIRCRAFT COMPONENTS IS CONSIDERED READY FOR RELEASE TO SERVICE.				
Place:		Swiss Aviationsupport, Hartbertstrasse 17, CH-7000 Chur Airport Wiener-Neustadt (AT) <b>Martin A. Barth</b> A&P 2801493 I.A.		
		  <b>Martin A. Barth</b> <b>2801493 I.A.</b>		

## AIR TIME AND

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

21.07.16

465.5 / 465.5 /



13.10.2016

490.00

490.00

CARRIED FORWARD

# E N G I N E E R I N G R E C O R D

12

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

INSPECTION, REPAIRS & REPLACEMENT

SIGNATURE

LICENCE  
NUMBER

<b>Diamond</b>			
<b>AIRCRAFT</b>			I.A. Oto Strasser 5, A-2100, Wiener Neustadt, AUSTRIA
<b>Reg:</b>	<b>N464TS</b>	<b>WR No.:</b>	<b>11/2016SA</b>
<b>Make:</b>	Diamond Inc.	<b>Model:</b>	DA42 NG
<b>Hobbs:</b>		<b>Flight time:</b>	465.5
<b>Engine:</b>	A300	<b>S/N:</b>	E4-B-00217
<b>Engine:</b>	A300	<b>S/N:</b>	E4-B-00216
<b>Prop:</b>	MTV-6-A-C-F/C	<b>S/N:</b>	80090
<b>Prop:</b>	MTV-6-A-C-F/C	<b>S/N:</b>	03610
<b>Compiled with:</b>			
<ul style="list-style-type: none"> <li>- On RH engine coolant tank assy P/N D64-7521-00-00 2 replaced.</li> <li>- OSB 42NG-049 i.a.w. WI-OSB 42NG-049 setp 2&amp;3 performed.</li> <li>- Additional work WR: Diamond Aircraft ASOEX160021</li> </ul>			

I CERTIFY THAT THE WORK SPECIFIED EXCEPT AS OTHERWISE SPECIFIED WAS CARRIED OUT IN ACCORDANCE WITH PART 43 OF THE U.S. FEDERAL REGULATIONS, AND IN RESPECT TO THAT WORK THE AIRCRAFT/AIRCRAFT COMPONENTS IS/ARE CONSIDERED READY FOR RELEASE TO SERVICE AND IN AIRWORTHY CONDITION.

Place: **A&P 2801493 I.A.** **Martin Barth**   
**Airport Wiener-Neustadt (AT)**

Martin A.  
Barth  
A&P 2801493



Place:

<b>Diamond</b>					
<b>AIRCRAFT</b>			I.A. Oto Strasser 5, A-2100, Wiener Neustadt, AUSTRIA		
<b>Reg:</b>	<b>N464TS</b>	<b>WR No.:</b>	<b>11/2016SA</b>		
<b>Make:</b>	Diamond Inc.	<b>Model:</b>	DA42 NG		
<b>Hobbs:</b>	490.00	<b>Flight time:</b>	490.00		
<b>Engine:</b>	A300	<b>S/N:</b>	E4-B-00217		
<b>Engine:</b>	A300	<b>S/N:</b>	E4-B-00216		
<b>Prop:</b>	MTV-6-A-C-F/C	<b>S/N:</b>	080090		
<b>Prop:</b>	MTV-6-A-C-F/C	<b>S/N:</b>	03610		
<b>Compiled with:</b>					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Next Annual inspection:</td> <td style="width: 80%;">Oct. 2017</td> </tr> </table>				Next Annual inspection:	Oct. 2017
Next Annual inspection:	Oct. 2017				
<ul style="list-style-type: none"> <li>- 100h/Annual inspection performed i.a.w. Diamond DA42 A/MM 7.02.15 rev.2, Austro Engine MM E4.08.04 rev.26 and MT-Propeller manual E-124 rev.57.</li> <li>- IFR Avionics test i.a.w. FAR 91.411/91.413 performed.</li> <li>- ELT annual inspection i.a.w. FAR 91.207 performed.</li> <li>- Mag Compass swing performed</li> <li>- ECU backup batteries replaced</li> <li>- On both engine V-ribbed belt replaced.</li> <li>- AD's conformably checked biweekly: 2016-20</li> <li>- Additional work WR: Diamond Aircraft ASOEX160131</li> </ul>					

I CERTIFY THAT THIS AIRFRAME/ENGINE/PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH SCOPE AND DETAIL OF FAR PART 43 FOR A 100H/ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION. ALL THE WORK SPECIFIED EXCEPT AS OTHERWISE SPECIFIED WAS CARRIED OUT IN ACCORDANCE WITH PART 43 OF THE U.S. FEDERAL REGULATIONS, AND IN RESPECT TO THAT WORK THE AIRCRAFT/AIRCRAFT COMPONENTS IS/ARE CONSIDERED READY FOR RELEASE TO SERVICE

Place: **Airport Wr-Neustadt (LOAN) Martin Barth**

Swiss Aviation Support, Hartenstrasse 17, CH-7000 Chur

A&P 2801493 I.A. 

  
**Martin Barth**  
A&P 2801493

## AIR TIME AND

# ENGINEERING RECORD

13

INSPECTION, REPAIRS & REPLACEMENT ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.				SIGNATURE	LICENCE NUMBER
<b>Diamond</b> <b>AIRCRAFT</b> N.A. Otto-Strasse 5, A-2700 Wiener Neustadt, AUSTRIA					
Reg:	<b>N464TS</b>	WR No.:	Swiss Aviationsupport 186/2016SAs	Date:	<b>21.Nov.2016</b>
Make:	Diamond Aircraft	Model:	DA42NG	S/N:	42.AC064
Hobbs:	495.0	Flight time:	495.00	TSN:	395.00
Engine:	AE300	S/N:	E4-B-00217	TSN:	395.00
Engine:	AE300	S/N:	E4-B-00216	TSO:	168.00
Prop:	MTV-6-A-C-F/CF	S/N:	80090	TSN:	168.00
Prop:	MTV-6-A-C-F/CF	S/N:	3610	TSN:	
<b>Complied with:</b> <ul style="list-style-type: none"> <li>- Oxygen cylinder assy after O/H installed. S/N in: ALT279-19121</li> <li>- LH Engine, glow box replaced. S/N in: 001848</li> <li>- Additional work info see WR: 186/2016SAs and Diamond Aircraft ASOEX160199</li> </ul>					
I CERTIFY THAT ALL THE WORK SPECIFIED EXCEPT AS OTHERWISE SPECIFIED WAS CARRIED OUT IN ACCORDANCE WITH <b>PART 43 OF THE U.S. FEDERAL REGULATIONS</b> , AND IN RESPECT TO THAT WORK THE AIRCRAFT/AIRCRAFT COMPONENTS IS CONSIDERED READY FOR RELEASE TO SERVICE AND IN AIRWORTHY CONDITION.					
Place:	Airport Wr-Neustadt (LOAN)		Swiss Aviationsupport, Hartberstrasse 17, CH-7000 Chur	 Martin Barth A&P 2801493 I.A.	



Martin A.  
Barth  
Neustadt

<b>Diamond</b> <b>AIRCRAFT</b> N.A. Otto-Strasse 5, A-2700 Wiener Neustadt, AUSTRIA					
Reg:	<b>N464TS</b>	WR No.:	Swiss Aviationsupport WR 010/2017SAs	Date:	<b>19.Jan.2017</b>
Make:	Diamond Inc.	Model:	DA42 NG	S/N:	42.AC064
Hobbs:	504:00	Flight time:	504:00	TSN:	404:00
Engine:	A300	S/N:	E4-B-00217	TSN:	404:00
Engine:	A300	S/N:	E4-B-00216	TSO:	404:00
Prop:	MTV-6-A-C-F/CI	S/N:	080090	TSO:	177:00
Prop:	MTV-6-A-C-F/CI	S/N:	03610	TSO:	177:00
<b>Complied with:</b> <ul style="list-style-type: none"> <li>- O&amp;M 42-077/g "Exchangeable nose cone" performed.</li> <li>- O&amp;M 42-273/a "GX70 weather radar installation" performed.</li> <li>- O&amp;M 42-094/l "Avidyne TAS 600 installation" performed.</li> <li>- WAAS Equipment and unlock P-RNAV &amp; SBAS installed with:           <ul style="list-style-type: none"> <li>- O&amp;M 42-134/a "WAAS provisions"</li> <li>- O&amp;M 42-179/d "P-RNAV and SBAS enable"</li> <li>- O&amp;M 42-211/a GIA63W new P/N"</li> </ul> </li> <li>- Weight &amp; balance performed, new empty weight: <b>1463,0</b> kg</li> <li>- Additional work info see WR 010/2017SAs and Diamond Aircraft ASOEX160165</li> </ul>					
I CERTIFY THAT THE WORK SPECIFIED EXCEPT AS OTHERWISE SPECIFIED WAS CARRIED OUT IN ACCORDANCE WITH <b>PART 43 OF THE U.S. FEDERAL REGULATIONS</b> , AND IN RESPECT TO THAT WORK THE AIRCRAFT/AIRCRAFT COMPONENTS IS CONSIDERED READY FOR RELEASE TO SERVICE AND IN AIRWORTHY CONDITION.					
Place:	Airport Wr-Neustadt (LOAN)		Swiss Aviationsupport, Hartberstrasse 17, CH-7000 Chur	 Martin Barth A&P 2801493 I.A.	



Martin A.  
Barth  
Neustadt

## AIR TIME AND

I CERTIFY THAT THIS AIRCRAFT/ENGINE/PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH SCOPE AND DETAIL OF FAR PART 43D FOR A ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION, ALL THE WORK, SPECIFIED EXCEPT AS OTHERWISE SPECIFIED WAS CARRIED OUT IN ACCORDANCE WITH PART 43 OF THE U.S.FEDERAL REGULATIONS, AND IN RESPECT TO THAT WORK THE AIRCRAFT/AIRCRAFT COMPONENTS IS CONSIDERED READY FOR RELEASE TO SERVICE.

- Garmin Alert SB0824 rev. C "GDU 104X CRSS/BARO knob interference", checked. No interference
- ECU backup batteries replaced.
- Annual ELT function check i.a.w. FAR 91.207 performed.
- ELT battery replaced, next due date 04/2024.
- Emergency battery replaced.
- LH engine, Governor replaced, installed: p/n P-877-16, s/n 11G091-H/G, TSO 0:00
- RH engine, Governor replaced, installed: p/n P-877-16, s/n 11G327-H/G, TSO 0:00
- LH Propeller, Unfeathering accu. repl., installed: p/n P-893-1 s/n 11A161, TSO 0:00
- RH Propeller, Unfeathering accu. repl., installed: p/n P-893-1 s/n 11A160, TSO 0:00
- AD's conformatly checked biweekly 2017-23 and FAA AD lists Diamond Aircraft DA42NG, Austria engine E4 and MT-Propeller MTV-6.
- Additional info see Diamond Aircraft WR: ASOEX180137

- RSB 42NG-061 "Replacement of turbo V-clamps", V-clamps replaced with new design.
- RSB 42NG-065 "Steel pin of door handle replacement", steel pins rep.
- MSB-E4-0172 "Check/replacement of timing chain", check performed n/a by eng TSN.
- MSB-E4-0221 "Wast gate control rod insp.", inspection performed, n/a on both engines.
- MSB-E4-0241 "Wast gate spring loaded cir-clip", new cir clips installed on both engines.
- FAA AD 2017-22-06 "Inspection of autopilot bridle cable clamp", inspected. N/A by SN and PN.
- FAA AD 2017-04-06 "United Inst. SB no.:13, Type 5934-series Alt.", inspected. N/A by SN.
- FAA AD 2017-18-10 rev.0 "Insp. flap bell crank for cracks", bell crank repl. with p/n: D60-2757-11-00 01. new bushings installed.

- MSB 42NG-003/25 "Software Garmin G1000 update", new software 010-00670-15 installed.
- MSB 42NG-002/17 and MSB-E4-003/22 "Software E4-B&C Engine update", new software SW VC33\_0\_06\_21 installed.

- 100h/Annual inspection on airframe, engines and propellers I.a.w DA42 AMM 05-28-00

Prop:	MTV6-A-C-FC/CF	SN:	080090	TSN/TSO:	1864.5 / 262.5
Prop:	MTV6-A-C-FC/CF	SN:	03610	TSN/TSO:	749.5 / 262.5
Compiled with:	Next Annual inspection: Nov.2018				

Make:	Diamond Aircraft	Model:	DA42 NG
Hobbs:	589.5	Flight time:	589.5
Engine:	A300	SN:	E4-B-00217
Engine:	A300	SN:	E4-B-00216
		TSN:	489.5

Reg: N464TS WR No.: 1772017SA3 Date: 15. Nov. 2017

**WINGING** AIRCRAFT N.A. CIOLO-STRASSE 5 A-2700 WIENER NEUSTADT, AUSTRIA

December 1945

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11 of 11

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**ENGINEERING RECORD**



## AIR TIME AND

# ENGINEERING RECORD

15

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

SIGNATURE

LICENCE  
NUMBER

## Diamond

AIRCRAFT

N.A. Otto-Strasse 5, A-2700, Wiener Neustadt, AUSTRIA

4  
Jan  
2019

Reg: **N464TS** WR No.: 1782018SAAS Date: **06. Dec. 2018**

Make: Diamond Aircraft Model: DA42 NG SN: 42.AC064  
Hobbs: 688.2 Flight time: 688.2 TSN: 587.3  
Engine: A300 SN: E4-B-00217 TSN: 587.3  
Prop: MTV-6-A-C-FCF SN: 080090 TSO: 361.2  
Prop: MTV-6-A-C-FCF SN: 03610 TSO: 361.2

Compiled with:

- 200h inspection on Airframe, engines and propellers i.a.w. DA42 AMM 05-28-00 Maintenance
- Checklist DA42 NG, engine MM and propeller OIM performed.
- On LH & RH engine, alternators replaced. p/n E4A-91-400-000 s/n LH: 01539 s/n RH: 01755
- On LH & RH engine, "Two mass flywheel" inspection performed. Satis.
- On LH & RH engine, air filter replaced.
- LH & RH fuel filter replaced.
- On LH & RH engine, oil and oil filter replaced.
- On LH & RH engine, high pressure pump replaced. p/n E4A-30-000-000 s/n LH: 18-01-22-02-01276 s/n RH: 18-01-22-02-01990
- Main battery capacity check performed. Satis.
- ECU backup batteries replaced.
- Annual ELT function check i.a.w. FAR 91.207 performed.
- All safety belts replaced.
- IFR avionic check and altimeter test i.a.w. FAR 91.411 and FAR 91.413 performed.
- Magnetic compass swing performed.
- FAA AD 2018-07-16 "Turbocharger wast gate controller" on LH & RH engine performed.
- FAA AD 2018-18-02 "Engine windmill restart" checked, no windmill start performed to this date.
- AD's conformity checked biweekly 2018-24 and FAA AD lists Diamond Aircraft DA42NG, Austro engine E4 and MT-Propeller MTV-6.
- Austro Engine MSB-E4-022 rev.4 "Turbocharger wast gate controller" on LH & RH engine terminating action item 40&41 performed. Fail safe bridge and bushings installed.
- MSB 42NG-003/27 "Software Garmin G1000 update", new software already installed.
- MSB 42NG-072 rev.0 "Inspection of upper rudder bearing" performed. Satis.
- Additional repaires and work into see Diamond Aircraft WR: ASOEX-18-0148

I CERTIFY THAT THIS AIRFRAME/ENGINE/PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH SCOPE AND DETAIL OF FAR PART 43-01 FOR A ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION. ALL THE WORK SPECIFIED EXCEPT AS OTHERWISE SPECIFIED WAS CARRIED OUT IN ACCORDANCE WITH PART 43 OF THE U.S. FEDERAL REGULATIONS, AND IN RESPECT TO THAT WORK THE AIRCRAFT/AIRCRAFT COMPONENTS IS CONSIDERED READY FOR RELEASE TO SERVICE.

Place:

Airport Wf-Neustadt (LOAN) **Martin Barth**

A&P 2801493 I.A.

*Martin A.  
Barth  
Neustadt*

Swiss Aviationsupport, Hartberstrasse 17, CH-7000 Chur

# AIR TIME AND

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



**Diamond**  
AIRCRAFT  
DIAMOND AIRCRAFT IND.  
D.O.T. APPROVED  
MAINTENANCE  
ORGANIZATION161-93

## Maintenance Performed

- Garmin GTX 345 Installed I.A.W. STC SA01714VW Ref FAA 337 form Dated April 05, 2019
- L3 communications Wx500 system removed, antenna coax removed, all other wiring capped and stowed
- Garmin GWX 68 removed, wiring between radar and MFD removed, radar nose cone with bonding strips left in place, FRP bulkhead fabricated and installed at fwd bulkhead in nose baggage compartment.
- Transponder correlation requirements completed in accordance with 571 appendix F, 571.10, Appendix B paragraph (a)(1) of the CARs, FAR 91.411, FAR 91.413, FAR 43 appendix E & F. Next due: Sept 2019
- Transponder GTX 345R, SN: 3E14021959 TKS system disabled: The following system components removed: De-ice fluid tank, main pump panel, windshield pump panel (with filters), Nacelle proportional units L&R, tail proportional unit, timer box in nose and main control panel. I-panel circuit breaker replaced due to TKS removal. De-ice fluid lines to propellers NOT installed. Ice lights kept in place. All remaining wires & fluid lines capped and secured. All de-ice panels on wings and tail surfaces kept in place. De-ice equipment on propellers remained in place.
- Oxygen system removal: Aerox bottle removed. Oxygen bottle mounting brackets and nose baggage covers left in place. All lines capped and stowed. Cabin mask plug-ins removed, and holes plugged with grommets.

Continued on next page.....



**Diamond**  
AIRCRAFT  
DIAMOND AIRCRAFT IND.  
D.O.T. APPROVED  
MAINTENANCE  
ORGANIZATION161-93

## Maintenance Performed

- Canopy seal adjusted
- LH aileron short rod adjusted 1/2 turn longer

I have carried out an independent inspection of the Flight controls/power plant controls  
AC affected by the work accomplished  
ACA *AS* APR 08 2019

The Maintenance Description has been performed IAW the Applicable Standard of

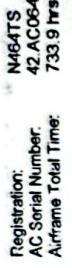


**Diamond**  
AIRCRAFT  
DIAMOND AIRCRAFT IND.  
D.O.T. APPROVED  
MAINTENANCE  
ORGANIZATION161-93

Date: APR 08 2019

CARRIED FORWARD

## ENGINEERING RECORD



**Diamond**  
AIRCRAFT

DIAMOND AIRCRAFT IND.  
D.O.T. APPROVED  
MAINTENANCE  
ORGANIZATION161-93

## Maintenance Performed (continued)

- Garmin G1000 software version 670.15 loaded I.A.W. Diamond MSB 42NG-003/27 G1000 databases updated
  - Navigation / Flightcharts data expires April 25, 2019
  - Obstacle/ Apt Directory/ Safe Taxi expires April 25, 2019
  - "Check Gear" light installed I.A.W. ERAU supplied work instructions. Option "C" used for light
  - New aircraft AFM supplied and updated accordingly
  - Aircraft W&B performed, AFM updated
  - Aircraft Equipment list update completed, AFM updated
  - Rudder and horizontal stabilizer removed and re-installed to facilitate Wx500 antenna & coax removal
- I have carried out an independent inspection of the Flight controls/power plant controls affected by the work accomplished  
ACA *AS* APR 05 2019
- The Maintenance Description has been performed IAW the Applicable Standard of

ACA *AS* APR 05 2019

# ENGINEERING RECORD

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INSPECTION, REPAIRS & REPLACEMENT		DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
<b>Diamond</b> <b>AIRCRAFT</b> <b>DIAMOND AIRCRAFT IND.</b> <b>D.O.T. APPROVED</b> <b>MAINTENANCE</b> <b>ORGANIZATION161-93</b>		Registration: N464TS AC Serial Number: 42AC034 Airframe Total Time: 736.1 hrs  Diamond Aircraft Work Order: SO 072130		
<b>Maintenance Performed</b>		<ul style="list-style-type: none"> <li>Adjusted Canopy seal as required.</li> <li>Standby Al ball adjusted to match PFD.</li> <li>Hobbs meter replaced. Installed PN: 85094-12</li> <li>Adjusted LH/RH ECU test buttons to sit centered in panel.</li> <li>Sealed RH fire detector wires with APL and installed new ring terminal on ground wire.</li> <li>Adjusted LH/RH prop governor speed stops as required.</li> <li>Reloaded Flitecharts database.</li> </ul>		
		I have carried out an independent inspection of the flight controls/power plant controls affected by the work accomplished		
		<b>ACA</b> Date: <u>APR 11 2019</u>		
		The Maintenance Described has been performed IAW the Applicable Standard of <b>AIRWORTHINESS</b>		
		<b>ACA</b> Date: <u>APR 11 2019</u>		
		 <b>Diamond</b> <b>AIRCRAFT</b> <b>DIAMOND AIRCRAFT IND.</b> <b>D.O.T. APPROVED</b> <b>MAINTENANCE</b> <b>ORGANIZATION161-93</b>		
		Registration: N464TS AC Serial Number: 42AC034 Airframe Total Time: 736.1 hrs  Diamond Aircraft Work Order: SO 072130		
<b>Maintenance Performed</b>		<ul style="list-style-type: none"> <li>Replaced RH fire sensor PN: D60-9026-16-03, removed SN: 000229 installed SN: 318875.</li> <li>Replaced RH overhead map light.</li> </ul>		
		The Maintenance Described has been performed IAW the Applicable Standard of <b>AIRWORTHINESS</b>		
		<b>ACA</b> Date: <u>APR 12 2019</u>		

## AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
	HR.S.	MIN.	HR.S.	MIN.
BROUGHT FORWARD				

RE-ROUTED Hobbs meter power from  
ELECTRICAL MASTER to P/H Engine  
MASTER SWITCH THROUGH A 1 Amp  
IN LINE FUSE 0.25A AC43.13 - 1B  
STANDARDS - *C1* CRS# BF8R0320  
06-JUNE-2019 - *YAH* 788.1 - T.I. 788.1

Complied with (500hr) (100 hr) (400hr) Inspection  
Date 07 June 2019 W/O 20190256  
Tach 788.1 A/C TT 788.1  
Eng TT Lt 787.3 Rt 787.3  
Eng TSMO Lt 787.3 Rt 787.3  
Prop TT Lt 2163.3 Rt 1048.2  
Prop TSMO Lt 561.2 Rt 561.2  
Inspector: YAH **18**

ERAU Maintenance Section  
Repair Station No. BF8R0320

Complied with (500hr) (100 hr) (Annual) Inspection  
Date 01 Nov 2019 W/O 20190256  
Tach 788.2 A/C TT 788.2  
Eng TT Lt 787.3 Rt 787.3  
Eng TSMO Lt 787.3 Rt 787.3  
Prop TT Lt 2163.3 Rt 1048.2  
Prop TSMO Lt 561.2 Rt 561.2  
Inspector: YAH **18**

ERAU Maintenance Section  
Repair Station No. BF8R0320



JERRY RIDDLE  
AERONAUTICS  
ENGINEERING  
PREScott, Arizona  
3700 Willow Creek Road  
MAINTENANCE (928) 777-4339

N 594ER S/N# 42.AC064 W/O# 201902788  
A/C TACH 935.6 A/C TT: 935.6  
Removed Austro Engine P/N# Σ4-B and  
S/N# Σ4-B-00216 Engine TTSN 834.7 Engine SMOH  
834.7. Installed Engine P/N# Σ4-B Engine SMOH  
6.0 on REIGHT position. All work completed per  
Diamond DA42NG Aircraft Maintenance Manual Chapter  
71-00-00 and Austro Engine AE300/E4 Installation Manual  
Document Number E4.02.01 all latest revisions. Run up and  
Leak check was good.  
DATE: 12-19-2019  
SIGN: Chris Cao. DQ **26**

CRS #BF8R0320

## ENGINEERING RECORD

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

## ENGINEERING RECORD

17

INSPECTION, REPAIRS & REPLACEMENT ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		SIGNATURE	LICENCE NUMBER
 <b>PRESCOTT, ARIZONA</b> <b>3700 WILLOW CREEK ROAD</b> <b>MAINTENANCE (928) 777-4339</b>			
<b>N594ER</b> S/N # <u>42.AC064</u> W/O # <u>202000149</u> A/C TACH: <u>951.7</u> A/C TT: <u>951.7</u> <i>81.129</i> Removed MT Propeller P/N # <u>MTV-6-R-C-F/CF</u> and S/N # <u>080090</u> Propeller TTSN <u>2226.8</u> Propeller SMOH <u>624.7</u> from the <u>Left</u> position. Installed serviceable Propeller P/N# <u>MTV-6-RC-F/CF187-04</u> and S/N# <u>05238</u> with Propeller TTSN <u>4679.9</u> and Propeller SMOH <u>0.0</u> , all work done in accordance with Diamond DA42NG Maintenance Manual chapter 61-10-00 latest revision.			
DATE: <u>1/17/2020</u> SIGN: <u>James E. lot</u> <i>4</i> CRS #BF8R0320			

Complied with (50 hr) (100 hr) (ANNUAL) Inspection	
Date <u>2/09/2020</u> W/O <u>2020 00377</u>	
Tach	<u>987.1</u> A/C TT <u>987.1</u>
Eng TT Lt	<u>886.2</u> Rt <u>51.5</u>
Eng TSMO Lt	<u>886.2</u> Rt <u>51.5</u>
Prop TT Lt	<u>4715.3</u> Rt <u>1147.1</u>
Prop TSMO Lt	<u>35.4</u> Rt <u>660.1</u>
Inspector:	<u>Farrell Harris</u>
ERAU Maintenance Section	
Repair Station No. BF8R0320	

 <b>PRESCOTT, ARIZONA</b> <b>3700 WILLOW CREEK ROAD</b> <b>MAINTENANCE (928) 777-4339</b>	
<b>N 594ER</b> S/N # <u>42.AC064</u> W/O # <u>202000477</u> A/C TACH: <u>1068.7</u> A/C TT: <u>1068.7</u> Removed MT Propeller P/N # <u>MTV-6-R-C-F/CF187-129</u> and S/N # <u>03610</u> Propeller TTSN <u>1228.7</u> Propeller SMOH <u>741.7</u> from the <u>RH</u> position. Installed serviceable Propeller P/N# <u>MTV-6-R-C-F/CF187-129</u> and S/N# <u>061244</u> with Propeller TTSN <u>3118.1</u> and Propeller SMOH <u>649.7</u> , all work done in accordance with Diamond DA42NG Maintenance Manual chapter 61-10-00 latest revision.	
DATE: <u>3-20-2020</u> SIGN: <u>Kimberly Partu</u> <i>5</i> CRS #BF8R0320	

5

END

## AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD  NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLET
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					
		<b>PREScott, ARIZONA</b> <b>3700 WILLOW CREEK ROAD</b> <b>MAINTENANCE (928) 777-4339</b>			
<u>N 594ER</u> S/N # <u>43AC064</u> W/O # <u>202000839</u> <u>A/C TACH: 1076.2</u> <u>A/CTT: 1076.2</u> Removed MT Propeller P/N # <u>MIV-6-R-C-F/C 187-129</u> and S/N # <u>061244</u> Propeller TTSN <u>3125.6</u> Propeller SMOH <u>657.2</u> from the <u>RIGHT</u> position. Installed serviceable Propeller P/N# <u>MIV-6-R-C-F/C 187-129</u> and S/N# <u>070094</u> with Propeller TTSN <u>5194.5</u> and Propeller SMOH <u>1097.0</u> , all work done in accordance with Diamond DA42NG Maintenance Manual chapter 61-10-00 latest revision.					
DATE: <u>3-26-20</u> SIGN: <u>Am. Gable</u> <u>28</u> CRS #BF8R0320					



PRESCOTT, ARIZONA  
3700 WILLOW CREEK ROAD  
MAINTENANCE (928) 777-4339

N594ER A/CSN# 42.AC064 A/CTach 1078.4  
A/CTT 1078.4 W/O# 202000939

Garmin Autopilot servo's GSA 8X output gear has been lubricated with AeroShell 33MS grease in reference to page 3-23, paragraph 3.6, Continued Airworthiness Instructions in Installation Manual p/n #190-00303-72 latest revision.

Date: 14 MAY 2020



**PRESCOTT, ARIZONA  
3700 WILLOW CREEK ROAD  
MAINTENANCE (928) 777-4339**

N594ER SN# 42.AC064 W/O # 203000939

A/C TACH 10784 A/C TT: 1078.4

LT ENG TTSN 977.5 RT ENG TTSN 142.5

LT ENG SMOH 977.5 RT ENG SMOH 142.8

LT PROP TTSN 456.6 RT PROP TTSN 519.7

LT PROP SMOH 1367 RT PROP SMOH 1099.1

Inspected this Airframe in accordance with Annual / 1000

#### Hour/ MSI Diamond DA42NG Maintenance checklist, AMM

chapter 05-28-00 latest revision. Reference work order and

discrepancy sheets for all details of this inspection.

DATE: 5/21/30

SIGN: John G. Ode 28 CBS #BE8B0320

END

## ENGINEERING RECORD

18

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

SIGNATURE

LICENCE NUMBER

ALPHA-ZULU  
COMPOSITES

4510 FLIGHTLINE DRIVE KINGMAN, AZ 86401

REGISTRATION:	N594ER	MAKE:	DIAMOND	MODEL:	DA 42 NG
SERIAL NO.:	42.AC064	TOTAL TIME (AIRFRAME):	1082.5	HOBBS:	549.0

Repaired Class 2 delamination of LH and RH nacelle sandwich structure inboard aft corner, near auxillary fuel tank pump(s).

Clean and replace sealant/adhesive at perimeter of center LH and center RH engine mount nut metal backing plates on RH engine, aft of firewall.

All repairs performed in accordance with Diamond Aircraft AMM, Chapter 51.

NAME:	PAUL A. GAINES	SIGNATURE:	DATE:
CERTIFICATE:	A & P 2300425		06/16/2020



PRESCOTT, ARIZONA  
3700 WILLOW CREEK ROAD  
MAINTENANCE (928) 777-4339

N594ER A/C SN #42.AC064 W/O# 202002051

TACH: 1176.9 A/C TT: 1176.9

Complied with Diamond Aircraft MSB 42NG-003/29, verified G1000 software, manifests and configurations are approved versions per included instructions.

Date 20 Aug 2020

Sign

CRS #BF8R0320

N594ER S/N# 42.AC064 W/O# 202001949  
A/C TACH 1172.4 A/C TT: 1172.4  
ENGINE TTSN 236.8 Engine SMOH 236.8  
Waste gate controller and circlip replaced on Aug. 1, 2020, W/O 202001850 at A/C TT 1054.9. Austro Engine MSB-E4-022/5 provides terminating action for AD 2018-07-16 per FAA AMOC letter dated March 6, 2019. (Right Engine)

DATE: 8-11-20

SIGN: CRS #BF8R0320

Complied with (100 hr) ( ) Inspection

Date 8-20-20 W/O 202002051

Tach 1176.9 A/C TT 1176.9

Eng TT Lt 1076.0 Rt 241.3

Eng TSMO Lt 1076.0 Rt 241.3

Prop TT Lt 4905.1 Rt 5295.2

Prop TSMO Lt 225.2 Rt 1197.7

Inspector: ERAU Maintenance Section

Repair Station No. BF8R0320

10-28-20 A/C TACH 1074.4 A/C TT 1074.4 - COMPLETED WITH AD 2020-15-05, W/O# 202003005 / UPDATED AFM WITH REQUIRED INFORMATION PER THE AD INSTRUCTION (IN-FLIGHT RESTART PROCEDURES)

8-22-20 14  
CRS# BF8R0320

## 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.	

Complied with (50 hr) (100 hr) (Annual) Inspection  
 Date 11-18-20 W/O 202003005  
 Tach 1274.4 A/CTT 1274.4  
 Eng TT Lt 1173.5 Rt 338.8  
 Eng TSMO Lt 1173.5 Rt 338.8  
 Prop TT Lt 5002.6 Rt 5392.7  
 Prop TSMO Lt 322.7 Rt 1295.2  
 Inspector: Dee O. O. 78

ERAU Maintenance Section  
 Repair Station No. BF8R0320



PRESCOTT, ARIZONA  
 3700 WILLOW CREEK ROAD  
 MAINTENANCE (928) 777-4339

Performed Transponder, Static System and Altitude Reporting Integration Test required by FAR 91.411 and 91.413, Max Alt. 20,000 ft.  
 AS PER PART 43, APPENDIX E AND F.

Date 11 DEC 2020 Signed 12

ERAU Avionics  
 CRS# BF8R0320  
 Prescott, AZ

A/CTT 1274.4  
 W/O# 202003465



PRESCOTT, ARIZONA  
 3700 WILLOW CREEK ROAD  
 MAINTENANCE (928) 777-4339

N 594ER S/N# 42.AC064 W/O# N/A  
 A/C TACH 1292.9 A/CTT: 1292.9  
 ENGINE TTSN 18.5 Engine SMOH 18.5

Complied with AD 2020-22-14, verified LT. eng. waste gate control rod fail-safe bridge and spring loaded circlip were both installed at factory when engine was built on AUG. 2020 this constitutes terminating action for the Initial and repetitive replacement requirements of the AD.

DATE: 1-13-21

SIGN: S. J. O. 14 CRS #BF8R0320

N 594ER S/N# 42.AC064 W/O# 202003449  
 A/C TACH 1274.4 A/CTT: 1274.4  
 Removed Austro Engine P/N# E4-B and S/N# 84-B-00217 Engine TTSN 1173.5 Engine SMOH 1173.5. Installed Engine P/N# 84-B S/N# E4-B-05001 Engine TTSN 0.0 Engine SMOH 0.0 on LEFT position. All work completed per Diamond DA42NG Aircraft Maintenance Manual chapter 71-00-00 and Austro Engine AE300/E4 Installation Manual Document Number E4.02.01 all latest revisions. Run up and Leak check was good.

DATE: 12-11-20  
 SIGN: Dee O. O. 78 CRS #BF8R0320

Performed ELT Inspection in accordance with FAR 91.207, Par. d.

12 05 JAN 2021  
 WO# 202003942, TTSN: 1284.1  
 ERAU Maintenance Section BF8R0320



PRESCOTT, ARIZONA  
 3700 WILLOW CREEK ROAD  
 MAINTENANCE (928) 777-4339

N 594ER S/N# 42.AC064 W/O# N/A  
 A/C TACH 1292.9 A/CTT: 1292.9  
 ENGINE TTSN 558.5 Engine SMOH 358.5

Complied with AD 2020-22-14, verified RT. eng. waste gate control rod fail-safe bridge and spring loaded circlip were both installed when Turbo assembly was replaced on 8-1-20 / WO# 202001850, this constitutes terminating action for the Initial and repetitive replacement requirements of the AD and MSB-E4-022/5.

DATE: 1-13-21

SIGN: S. J. O. 14 CRS #BF8R0320

41  
 CARRIED FORWARD

## ENGINEERING RECORD

19

## INSPECTION, REPAIRS &amp; REPLACEMENT

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

SIGNATURE

LICENCE NUMBER

Complied with (50 hr) (100 hr) (Annual) Inspection  
 Date 03 June 2021 W/O 202102262  
 Tach 1370.4 A/C TT 1370.4  
 Eng TT Lt 96.0 Rt 434.8  
 Eng TSMO Lt 96.0 Rt 434.8  
 Prop TT Lt 5098.6 Rt 3177.5  
 Prop TSMO Lt 418.7 Rt 709.1  
 Inspector: JRW 18

ERAU Maintenance Section  
 Repair Station No. BF8R0320



PRESCOTT, ARIZONA  
 3700 WILLOW CREEK ROAD  
 MAINTENANCE (928) 777-4339

N594ER A/C SN # 42.AC064 A/C Tach 1370.4  
 A/C TT 1370.4 W/O# 202102262

Garmin Autopilot servo's GSA 80/81 output gear has been  
 lubricated with AeroShell 33MS grease in reference to  
 page 3-26, paragraph 3.7, Continued Airworthiness  
 Instructions in Installation Manual Doc. #190-00303-72  
 Revision W.

Date: 03 JUNE 2021

Sign: JRW 21

CRS #BF8R0320

PERFORMED ELECTRICAL BONDING SYSTEM

CHECK PER DA42 AMM, DOC# 7.02.15, —  
 CHAPTER 51-80-00. —

TT: 1370.4 W/O# 202102261 1370.4 BF8R0320

Reg. #: N594ER  
 A/C SN: 42.AC064

Make: DIAMOND  
 A/C TT: 1429.1

Model: DA 42

Repaired multiple Class 2 outer laminate and foam areas on upper outer shell of PAX door in accordance with  
 Diamond Aircraft Maintenance Manual, Ch. 51.

Signed: Paul A. D.

A&P 2300425

Date: 08/23/2021

Complied with (50 hr) (100 hr) (Annual) Inspection

Date 9-16-21 W/O 202102581  
 Tach 1478.1 A/C TT 1478.1  
 Eng TT Lt 203.7 Rt 542.5  
 Eng TSMO Lt 203.7 Rt 542.5  
 Prop TT Lt 5206.3 Rt 3295.2  
 Prop TSMO Lt 526.4 Rt 816.8  
 Inspector: Paul A. D.

ERAU Maintenance Section  
 Repair Station No. BF8R0320



PRESCOTT, ARIZONA  
 3700 WILLOW CREEK ROAD  
 MAINTENANCE (928) 777-4339

N594ER S/N # 42.AC064 W/O# 202200728  
 A/C TACH: 1567.5 A/C TT: 1567.5  
 Removed MT Propeller P/N # MTV-6-R-C-F / CF-187-129  
 and S/N # 05238 Propeller TTSN 5295.7  
 Propeller SMOH 615.8 from the LEFT position.  
 Installed serviceable Propeller P/N# MTV-6-R-C-F / CF-187-129  
 and S/N# 05238 with Propeller TTSN 5551.1  
 and Propeller SMOH 1089.8, all work done in  
 accordance with Diamond DA42NG Maintenance Manual  
 chapter 61-10-00 latest revision.

Performed ELT Inspection in  
 accordance with FAR 91.207, Para. d  
 W/O # 202200306 A/C TT 1560.3

Date 1-27-22 Sign S. J. M. 14  
 ERAU Maintenance CRS #BF8R0320

DATE: 2-19-22 14  
 SIGN: S. J. M.

CRS #BF8R0320

3

## AIR TIME AND

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					
<u>PERFORMED MANDATORY SERVICE BULLETIN</u> <u>MSB 42NG-003/30 BY COMPATIBLE</u> <u>INSTALLED SOFTWARE SYSTEM AND</u> <u>RELATED MANIFESTS WITH APPROVED</u> <u>ONES STATED IN THIS SERVICE BULLETIN</u> <u>TACH: 1574.9</u> <u>TOTAL TIME: 1574.9</u> <u>07 APR 2022 4/6 202201372</u> <u>26 CRS: BF8R0320</u>					 <b>PRESCOTT, ARIZONA</b> <b>3700 WILLOW CREEK ROAD</b> <b>MAINTENANCE (928) 777-4339</b>

I certify that this aircraft, airframe, aircraft engine, propeller or appliance has been inspected in accordance with an (50 Hour) (100 Hour) (Annual) Inspection and was found to be in airworthy condition.

Complied with (50 hr) (100 hr) (Annual) Inspection

Date 4-19-22 W/O 202201372  
 Tach 1574.9 A/CTT 1574.9  
 Eng TT Lt 300.5 Rt 639.3  
 Eng TSMO Lt 300.5 Rt 639.3  
 Prop TT Lt 5558.5 Rt 5295.7  
 Prop TSMO Lt 1096.2 Rt 615.9  
 Inspector: Chez Cull 28

ERAU Maintenance Section  
 Repair Station No. BF8R0320



**PRESCOTT, ARIZONA**  
**3700 WILLOW CREEK ROAD**  
**MAINTENANCE (928) 777-4339**

N594ER S/N # 05228 W/O # 2022 08142  
 A/C TACH: 1575.8 A/C TTT: 1575.8  
 Removed MT Propeller P/N # MTV-6-R-C-F/CF187-129  
 and S/N # 05228 Propeller TTSN 5559.4  
 Propeller SMOH 1097.1 from the L/H position.  
 Installed serviceable Propeller P/N # MTV-6-R-C-F/CF187-129  
 and S/N # 05228 with Propeller TTSN 5559.5  
 and Propeller SMOH 0.0, all work done in  
 accordance with Diamond DA42NG Maintenance Manual  
 chapter 61-10-00 latest revision.

DATE: 08/26/22  
 SIGN: Scott John 17 CRS #BF8R0320

CARRIED FORWARD

DATE: 4-14-22  
 SIGN: Chez Cull 28 CRS #BF8R0320

COMPLETED WITH AD 2021-22-03, INSPECTED  
NOSE GEAR ACTUATOR ATTACH LEVER PER  
DIAMOND MSB 42NG-078 REV. 1.  
COMPLETED WITH AD 2022-03-01, INSPECTED  
FUEL TANK CONNECTION HOSES PER DIAMOND  
MSB 42NG-080. PROPER HOSES INSTALLED  
28  
 CRS# BF8R0320

# ENGINEERING RECORD

20

## INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE  
NUMBER

I certify that the Altimeter & Static Sys test required by FAR 91.411 has been performed and complies with FAR 43, appendix E.

L-P/N APC 1 S/N 47807779 Tested to 20000 ft.  
R-P/N \_\_\_\_\_ S/N \_\_\_\_\_ Tested to \_\_\_\_\_ ft.  
STBY STBY S/N 459575 Tested to 20000 ft.  
Altitude reporting sys. tested to 20000 ft.  
Signed Zachary Braddock  
Date 1/13/2023 WO# 29094

**Interstate Turbine Management**  
6070 Perimeter Rd. Charleston, SC 29406  
Class 3, Radio Class 1, 2 & 3, Limited ratings  
CRS# 11BR578Y

I certify that the ATC Transponder test and Inspection required by FAR 91.413 has been performed and complies with FAR 43, appendix E.

#1 Make Cessna Model CX345R S/N 3EHO21939  
#2 Make None Model None S/N None  
Signed Zachary Braddock  
Date 1/13/2023 WO# 29094

**Interstate Turbine Management**  
6070 Perimeter Rd. Charleston, SC 29406  
Class 3, Radio Class 1, 2 & 3, Limited ratings  
CRS# 11BR578Y

Model: DA42  
S/N: 42.AC064  
Reg #: N594ER

**CRAFT**  
FLIGHT TRAINING & SIMULATION  
890 Greyback Rd, Summerville, SC 29483

Date: 2/13/2023  
Tach: 1642.9

Tested ELT IAW FAR 91.207(d) battery due replacement 4/2024

Zachary Braddock

Zachary Braddock 3310705 A&P

Model: DA42  
S/N: 42.AC064  
Reg #: N594ER

**CRAFT**  
FLIGHT TRAINING & SIMULATION  
890 Greyback Rd, Summerville, SC 29483

Date: 3/3/2023  
Tach: 1675.1

100hr inspection completed this date IAW Diamond Aircraft DA42 NG AMM and Diamond Aircraft Inspection Checklist

1. ELT tested IAW CFR 91.207(d) Battery replacement due 4/2024
2. ECU Backup battery inspected Expires 4/2023
3. Inspected and repacked wheel bearings
4. replaced fuel filters P/N: WK724\_3
5. Removed, cleaned, inspected, and repacked wheel bearings and reinstalled
6. Wheels reinstalled and aircraft downjacked
7. Checked rudder cable tensions and adjusted to spec. Lubricated all flight controls
8. Interior reinstalled, access panels reinstalled
9. AD's researched biweekly thru this date
10. AD 2016-23-03 Inspection of V\_Clamp completed IAW Diamond Aircraft Industries GMBH Work instruction WI-MSB 40NG-046, dated July 22, 2016. Next due in 100 flight hours TACH: 1775.1
11. Performed gear retraction and extension and emergency extension check

Aircraft is approved for return to service at this time.

Aircraft inspected IAW a 100hr inspection and was determined to be in airworthy condition at this time.

Zachary Braddock

Zachary Braddock 3310705 A&P

Model: DA42  
S/N: 42.AC064  
Reg #: N594ER

**CRAFT**  
FLIGHT TRAINING & SIMULATION  
890 Greyback Rd, Summerville, SC 29483

Date: 3/3/2023  
Tach: 1675.1

AD 22-06-08 complied with by visual inspection for deformation and cracks. Flap bellcrank P/N D60-2757-11-00\_01 installed. Inspection required every 200hrs. Next insp due TACH: 1875.1

Zachary Braddock

Zachary Braddock 3310705 A&P

Model DA42N6  
S/N 42AC064  
Reg # N594ER

**Interstate Turbine Management**  
6070 Perimeter Rd.  
North Charleston, SC 29406

Date 3/20/2023  
Hobbs 784.6  
WO# 29200

Replaced left main tire P/N 070-449-0. Cleaned and repacked bearings. Serviced tires with N2.

*Jeff Brandy* CRS# I1BR578Y

Model: DA42  
S/N: 42AC064  
Reg #: N594ER

**CRAFT**  
FLIGHT TRAINING & SIMULATION  
890 Greyback Rd, Summerville, SC 29483

Date: 5/5/2023  
Tach: 1756.1

ANNUAL inspection completed this date IAW Diamond Aircraft DA42 NG AMM and Diamond Aircraft Inspection Checklist that meets the scope and detail of 14 CFR Appendix D to Part 43

1. ELT tested IAW CFR 91.207(d) Battery replacement due 4/2024
2. ECU Backup batteries replaced with 4ea Yuasa NP7-12 Expires 5/3/2025
3. Inspected and repacked wheel bearings
4. replaced fuel filters P/N: WK724\_3
5. Removed, cleaned, inspected, and repacked wheel bearings and reinstalled
6. Wheels reinstalled and aircraft downjacked
7. Checked rudder cable tensions and adjusted to spec. Lubricated all flight controls
8. Interior reinstalled, access panels reinstalled
9. AD's researched biweekly thru this date
10. AD 2016-23-03 Inspection of V\_Clamp completed IAW Diamond Aircraft Industries GMBH Work instruction WI-MSB 40NG-046, dated July 22, 2016. Next due in 100 flight hours TACH: 1856.1
11. Performed gear retraction and extension and emergency extension check
12. Accomplished AD 22-21-15 by replacement of rudder T-Yoke bolt with P/N: D60-5320-00-32. Terminating action for this AD was accomplished IAW WI-RSB 42NG-081

Aircraft is approved for return to service at this time.

Aircraft inspected IAW an ANNUAL inspection and was determined to be in airworthy condition at this time.

*Zachary Braddock*  
Zachary Braddock 3310705 A&P/IA

Model DA42  
S/N 42AC064  
Reg # N594ER

**Interstate Turbine Management**  
6070 Perimeter Rd.  
North Charleston, SC 29406

Date 5/17/23  
Hobbs 1625.8  
WO# 29262

Installed new right main tire P/N 070-449-0 S/N 2229R00155 IAW AMM. Serviced all tires with Nitrogen.

*Jeff Brandy* CRS I1BR578Y

CARRIED FORWARD

# ENGINEERING RECORD

21

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

SIGNATURE

LICENCE  
NUMBER

Registration: N594ER  
AC Serial Number: 42.AC064  
Airframe TT: 1855.0  
WO: MYR5322



**LIFT MAINTENANCE**

Complied with 100hr inspection IAW FAR 43 appendix D and referencing the aircraft MM. Complied with AD 2016-23-03 Dated November 29, 2016 visual inspection following the instructions section in Diamond Aircraft Industries GMBH (DAI) work instructions WI-MSB 42NG-046 dated July 14, 2016 as specified in DAI mandatory service bulletin MSB 42NG-046/2 Dated August 4, 2020 Next due at 1955.0

I certify that this aircraft has been inspected IAW 100 INSPECTION and found to be airworthy. The aircraft, or component(s) identified above was repaired, installed or inspected IAW regulations of Federal Aviation Administration and was determined airworthy and approved for return to service only for the work performed. Details of the work are on file at this repair station under work order MYR5322. Date: 7/12/2023

Date: 07/12/2023

Signature

BRIAN DOUGLAS 3779058 A&P

Registration: NS94ER  
AC Serial Number: 42.AC064  
Airframe TT: 1855.0  
WO: MYR5322



**LIFT MAINTENANCE**

Maintenance performed:  
Removed and replaced both RH ECU batteries ref Diamond MM. P/N on/off: NP7-12

Signature:

Date 07/12/2023

JOHN CASCONE 4303473 A&P

Registration: N594ER  
AC Serial Number: 42.AC064  
Airframe TT: 1855.0  
WO: MYR5322



**LIFT MAINTENANCE**

Maintenance performed:

Complied with AD 22-21-15. By replacement of rudder T-Yoke bolt with P/n D60-5320-00-32. Terminating action for this AD was accomplished IAW WI-RSB 42NG-081. Rig and ops check c/w. The aircraft, or component(s) identified above was repaired, installed or inspected IAW regulations of Federal Aviation Administration and was determined airworthy and approved for return to service only for the work performed. Details of the work are on file at this repair station under work order MYR5322. Date: 7/12/2023

Signature:

John Cascone,

John Cascone, A&P 4303473

Date: 7/18/23

Model: DA-42  
S/N: 42.AC064  
Reg # N594ER

ASTRAEUS

Date: 08/08/2023  
Tach: 1891.6  
TTAF: 1891.6  
Hobbs: 1767.5

6060 S Aviation Ave Ste 106 N Charleston, SC 29406

Replaced L main tire and tube with Condor 15X6.0-6 6ply tire and associated tube. Replaced L and R brake linings with Cleveland Brake Linings 66-105 and Rapco Brake Linings RA66-105. Complied with Diamond advised AMM. I approve this aircraft for return to service.

Dane Hartley, A 4733103

*Dane Hartley*

Registration: N594ER  
AC Serial Number: 42.AC064  
Airframe TT: 1895.0  
WO: MY5545



LIFT MAINTENANCE

Maintenance performed:

R/R YAW SERVO GSM 85, SPIRAL, MED-TORQ UNIT ONLY IAW DIAMOND DA-42NG AMM (INSTALLED PN: 010-N0304-08 SN: 68707374 REMOVED PN: 011-00894-08 SN: 68706819) PERFORMED OPS CHECK AND FUNCTIONAL CHECK OF AUTOPILOT SYSTEMS, OPS CHECKED GOOD.

Signature:

*Jared Food*

Jared Food A&P 3740133

Date: 08/15/23

Registration: N594ER  
AC Serial Number: 42.AC064  
Airframe TT: 2048.90  
WO: 6873



LIFT MAINTENANCE

Maintenance performed:

Complied with a 100 HR Inspection IAW FAR 43.13 Appendix D and referencing the aircraft MM. Complied with AD 2016-23-03 Dated November 29, 2016 by visual inspection following the instructions section in Diamond Aircraft Industries GmbH (DAI) work instructions WI-MSB 40 NG-046, Dated July 14, 2016 as specified in DAI mandatory SB MSB40NG-046/2, Dated August 4, 2020, next due at AFTT: 2148.9 Hrs. I certify that this aircraft has been inspected IAW a 100 HR. Inspection and was found to be airworthy. The aircraft, or component(s) identified above was repaired, installed or inspected IAW regulations of FAA and was determined airworthy and approved for return to service only for the work performed. Date 03/03/2024

Date: 3/3/2024

Signature: *Trapper Evans*  
TRAPPER EVANS 4087361A&P

Reg: N594 ER  
AC S/N: 42.AC064  
Airframe TT: 2077.4  
WO #8085

Registration: N594ER  
AC Serial Number: 42.AC064  
Airframe TT: 2077.4  
WO: 8085



LIFT MAINTENANCE

Maintenance performed:  
R/R IGNITION SWITCH ASSY. IAW DIAMOND DA42 MM. PERFORMED FUNCTIONAL CHECK. OPS CHECKED GOOD

Date: 7/26/2024

Signature: *Jared Food*  
JARED FOOD 3740133A&P

Removed Starter switch and for Aircraft N42MV per  
Diamond DA42NG Amm.

Phillip Dickinson 4474866 ATP *Phillip* Date 7/24/2024

CARRIED FORWARD

## ENGINEERING RECORD

22

## INSPECTION, REPAIRS &amp; REPLACEMENT

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

SIGNATURE

LICENCE NUMBER

I find that this aircraft meets the requirements for the certificate requested and have issued a Special Airworthiness Certificate, FAA Form 8130-7, in the category of Special Flight Permit for the purpose(s) of Repairs, Alterations, Maintenance, or Storage and Operating Limitations to a Diamond Aircraft Industries GmbH DA 42 NG, Serial Number 42.AC064, dated 02/AUG/2024.

DART: Paul J Slosar

*Paul J Slosar*

285932891.



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

DATE: JUNE 29, 2024 | MAKE/MODEL: DIAMOND DA42NG | S/N: 42.AC064 | REG: N594ER  
TACH: 2074.0 HRS | TT OLD ENGINE: 750.0 HRS | TT NEW ENGINE: 0 HRS

PERFORMED LH ENGINE AND ASSOCIATED COMPONENT CHANGE DUE TO SERVICE LIMITS. REMOVED ENGINE SN: E4-B-05001; INSTALLED NEW ENGINE SN: E4-B-06166. ALL CURRENT ENGINE ACCESSORY/COMPONENT SERIAL #'S ARE NOTED IN AUSTRO ENGINE LOGBOOK.

AD's/MSB's ASSOCIATED WITH THE NEW ENGINE INSTALL VERIFIED; AD 24-05-01/MSB-E4-042 DATED 31 JAN 2024 AND AD 23-20-03/MSB-E4-039/1 DATED 25 APR 2023 ARE N/A BY SERIAL NUMBER ON NEW INSTALLED ENGINE.

THIS AIRCRAFT HAS BEEN SERVICED IN ACCORDANCE WITH THE CURRENT DIAMOND DA42NG AND AUSTRO E4 SERIES MAINTENANCE MANUALS. DEFICIENCIES FOUND DURING ENGINE INSTALL AND ANNOTATED ON ENGINE LOG ENTRY DATED: 29 JUN 2024.

*Scot Seaman*  
Scot Seaman

AP 3581287

Registration: N594ER  
AC Serial Number: 42.AC064  
Airframe TT: 2077.90  
WO: 8212



LIFT MAINTENANCE

## Maintenance performed:

Complied with Annual Inspection IAW 14 CFR Part 43 Appendix D and referencing Diamond DA42NG MM. Complied with 100hr inspection IAW FAR 43.13 Appendix D and referencing DA42NG MM. Complied with AD 2024-06-13 by researching logbooks and verifying RSB42NG-081, MSB42NG-086/1 or MSB42NG-087 was complied with on date of 7/18/2023 ATT 1855.00. Complied with reinspection of Rudder T-yoke bolt head and self locking nut for proper alignment IAW paragraph J(1) of AD 2024-06-13 effective date of May 28, 2024. Next due ATT: 2277.90. Inspected and tested ELT IAW 14 CFR Part 91.207 (D) 1-4, next due 08/2025. Performed Compass swings IAW DA42NG MM, no defects noted. Replaced both LH and RH engine turbocharger V-clamps IAW DA42NG WI-RSB 42NG-061. Replaced NLG tire IAW DA42NG MM, ops and leak check good. Replaced ELT battery pack IAW DA42NG MM, expiration date September 2030. Replaced ECU backup batteries (4) IAW DA42NG MM, Next due 08/2025. Replaced both LH engine FWD safety cables IAW DA42NG MM. Replaced LH engine FWD INBD shock mount IAW DA42NG MM. Engine runs and leak checks good, I certify that this aircraft has been inspected IAW Annual and 100hr Inspections and found to be in airworthy condition and approved for return to service.

Date: 8/9/2024

Signature:

Derek Hopper 3831519 IA A&amp;P

ACR ELECTRONICS, Inc.  
Artex Products - CAGE Code 18560  
Fort Lauderdale, FL 33312  
LOG BOOK ENTRY 8/9/2024  
E.L.T. BATTERY  
REPLACEMENT DATE SEPTEMBER 2030

## AIR TIME AND

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

Registration: N594ER  
AC Serial Number: 42.AC064  
Airframe TT: 2077.90  
WO: 8295



## LIFT MAINTENANCE

**Maintenance performed:**

During inspection found Roll servo not responding to garmin G1000, Removed Roll servo (P/N 011-00878-00, S/N 66414045) Installed overhauled Roll servo (P/N 010-N0303-00, S/N 66415565) per Diamond DA42NG and Garmin G1000 MM ops check good.

Date: 8/14/2024

Signature: Phillip Dickinson 4474866 A&D

The logo for SouthTecAviation features a stylized 'S' and 'T' in red, a blue 'A', and a black 'A' stacked vertically. Below the logo, the company name 'SouthTecAviation' is written in a bold, red, sans-serif font.

3330 AIRPORT LOOP  
SALISBURY, NC 28147  
OFFICE: 704-431-6862  
[INFO@SOUTHTECAVIATION.COM](mailto:INFO@SOUTHTECAVIATION.COM)

DATE: DECEMBER 23, 2024 | MODEL: DIAMOND DA42NG | S/N: 42.AC064 | REG: N594ER  
TACH: 2129.8 HRS

REPLACED UPPER HINGE ON LH GEAR DOOR.

Luke Walters  
LUKE WALTERS

A+P 4778771

Model: DA42  
S/N. 42.AC064  
Req # N594ER



Date: 1/17/2025  
Tach: 2147.5

100hr inspection completed this date IAW Diamond Aircraft DA42 NG AMM and Diamond Aircraft Inspection Checklist

1. ELT tested IAW CFR 91.207(d) Battery replacement due 9/2030
2. ECU Backup battery inspected Expires 8/2025
3. Inspected and repacked wheel bearings
4. replaced fuel filters P/N: WK724\_3
5. Removed, cleaned, inspected, and repacked wheel bearings and reinstalled
6. Wheels reinstalled and aircraft downjacked
7. Checked rudder cable tensions and adjusted to spec. Lubricated all flight controls
8. Interior reinstalled, access panels reinstalled
9. AD's researched biweekly thru this date
10. AD 2016-23-03 Inspection of V\_Clamp completed IAW Diamond Aircraft Industries GMBH Work instruction WI-MSB 40NG-046, dated July 22, 2016. Next due in 100 flight hours TACH: 2247.5
11. Performed gear retraction and extension and emergency extension check
12. Replaced LH and RH MLG tires and tubes
13. Replaced LH brake pads with RAPCO 66-105 linings

Aircraft is approved for return to service at this time.

Aircraft inspected IAW a 100hr inspection and was determined to be in airworthy condition at this time.

Zachary Braddock 3310705 A&P



Replaced LH and RH MLG tires with goodyear flight custom 2 tires and goodyear tubes. Aircraft jacked and gear swing check good. Aircraft approved for return to service at this time

Zachary Braddock 3310705 A&P

# ENGINEERING RECORD

23

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

Transponder Certification Supplemental Logbook Entry			
DATE	REGISTRATION:	WORK ORDER:	
31 Jan 25	N694ER	SFA 25-052	
Transponder 1		Transponder 2	
MODEL	SERIAL	MODEL	SERIAL
GTx 345	3EH021939		
I certificate that the Transponder(s) Certification and Encoder(s) correlation for this aircraft have been performed and found to comply with the requirements of FAR 91.413. The article(s) identified above was inspected and functionally tested in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Transponder(s) certification tested I.A.W. FAR Part 43 Appendix F. Details of this inspection are on file at this agency on Work Order noted above.			
Pump Fox Avionics, LLC 373 Aviation Way, Walterboro, SC 29488 FAA CRS # 8FXR273D Telephone (843) 782-4006			
Date 31 Jan 25		Tested by <u>MMT</u> SFA Form XPLP-02	

SIGNATURE

LICENCE NUMBER

I certify that the Altimeter & Static Sys test required by FAR 91.411 has been performed and complies with FAR 43, Appendix E.

ADC #1 P/N GDC74A S/N 47897779 Tested to 20000 ft.

STBY-P/N 5934PD-3 S/N 459575 Tested to 20000 ft.

Altitude reporting sys. tested to 20000 ft.

Signed

Date February 4, 2025 WO# 29930

Interstate Turbine Management  
 6070 Perimeter Rd. Charleston, SC 29406  
 Class 3, Radio Class 1, 2 & 3, Limited ratings  
 CRS# 11BR578Y

I certify that the ATC Transponder test and Inspection required by FAR 91.413 has been performed and complies with FAR 43, Appendix E.

#1 Make Garmin Model GTx345R S/N 3EH021939

#2 Make N/A Model N/A S/N N/A

Signed

Date February 4, 2025 WO# 29930

Interstate Turbine Management  
 6070 Perimeter Rd. Charleston, SC 29406  
 Class 3, Radio Class 1, 2 & 3, Limited ratings  
 CRS# 11BR578Y

Model DAA2  
 SN 42AC064  
 Reg # N694ER

**CRAFT**  
 FLIGHT TRAINING & SIMULATION  
 690 GLENDACK RD, SUMTERVILLE, SC 29463

Date: 1/17/2025  
 Tach: 2147.5

AD 22-06-08 complied with by visual inspection for deformation and cracks. Flap bellcrank P/N D60-2757-11-00\_01 installed.  
 Inspection required every 200hrs. Next Insp due TACH 2347.5

Zachary Braddock 3310705 A&P

## AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD <u>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</u>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					
- AC MAKE: Diamond					SPARKCHASERS
- AC MODEL: DA42					Aircraft Services, Inc.
- AC S/N: 42.064					AIRFRAME LOGBOOK ENTRY
- Date: May 29, 2025					TACH TIME: 2238.0
- Customer states traffic and weather will not display on Garmin G1000s from the GTX345. Reviewed configurations and system and found GDL90 configuration to be X out. Found configuration to be incorrect on rs232 port 8 on GIA #1.					HOBBS: 2240.4
- Corrected configuration and retested with traffic/weather working and GDL90 shows check mark. Work and troubleshooting was performed IAW Installation Manual STC Part 23 ADS-B, GTX 3XX 190-00734-10 rev. 17 and assistance from Garmin Tech support. All operational checks were good with no issues noted. Pertinent details related to the work performed are on file at Sparkchasers under work order 10-22618.					A/C REG. #: N594ER
Signed 					
- Sparkchasers Aircraft Services					
#XSPR699K					



3330 AIRPORT LOOP  
SALISBURY, NC 28147  
[INFO@SOUTHTECAVIATION.COM](mailto:INFO@SOUTHTECAVIATION.COM)  
OFFICE: 704-431-6862

DATE: NOVEMBER 3, 2025 | DIAMOND DA42 NG | S/N: 42.AC064 | REG: N594ER  
TACH: 2250.4 HRS. TTA: 2250.4 HRS.

ANNUAL COMPLETED THIS DATE IN ACCORDANCE WITH DIAMOND AIRCRAFT DA42 NG AMM AND DIAMOND AIRCRAFT INSPECTION CHECKLIST. AD'S CHECKED THROUGH BIWEEKLY NUMBER 2025-22.

AD 21-22-03: NLG ACTUATOR ATTACHMENT LEVER. INSPECTED NLG ACTUATOR LEVER IAW WI-MSB 24NG-078. NO DEFECTS NOTED. NEXT DUE AT TACH: 2450.4.

AD 24-06-13: LOOSE RUDDER T-YOKE AXLE NUT. C/W AD 2024-06-13 IAW WI-RSB 42-139 AND WI-RSB 42NG-081, REVISION 1 BY VISUAL INSPECTION OF RUDDER T-YOKE AXLE NUT. NEXT DUE IN 200 HOURS AT TACH: 2450.4.

MSB42NG-094/1 COMPLIED WITH BY REPLACING RETAINING RINGS FOR MLG AND NLG, USING PART NUMBER, 4 EACH DIN471-20X1.2, 6 EACH DIN471-10X1.0, 2 EACH DIN471-18X1.2.

MSB42NG-078 COMPLIED WITH BY INSPECTION NO DEFECTS NOTED. NEXT DUE TACH: 2450.4.

COMPLIED WITH BONDING TEST, NEXT DUE TACH: 3250.4 OR 10/2029.  
ELT TESTED IN ACCORDANCE WITH CFR 91.207(D). ELT BATTERY EXP: SEPTEMBER 2030.

REMOVED AND REPLACED EMERGENCY BATTERY PACK PART NUMBER DA4-2560-91-00.

INSPECTED AND REPACKED WHEEL BEARINGS.

REPLACED LEFT AND RIGHT FUEL FILTERS, P/N.(WK724\_3).

REMOVED AND REPLACED ECU BACKUP BATTERIES PART NUMBER NP7-12.

CLEANED AND ADJUSTED ELEVATOR TRIM BLOCK.

REPLACED FIRE PAINT FOR ALL COWLING.

REPLACED SEALANT FOR TKS PANELS.

TOUCHED UP PAINT FOR LEFT AND RIGHT SPINNERS.

REPLACED CENTER SECTION TO FUSELAGE SEALANT.

REPLACED LEFT AND RIGHT WING T-SEALS.

REPLACED CANOPY LEADING EDGE SEAL.

ADJUSTED LEFT PROPELLER ACCUMULATOR TO STOP CHAFFING INTERCOOLER.

REPLACED CRUSH WASHERS ON RIGHT FORWARD AND AFT FUEL PUMP BANJO BOLTS PART NUMBER DIN-7603-A14X20

REMOVED AND REPLACED RIGHT AND LEFT BRAKE PADS PART NUMBER 66-105

REMOVED AND REPLACED RIGHT BRAKE PUCK O-RING PART NUMBER MS28775-222

REPLACED LEFT AND RIGHT BRAKE ROTORS P/N:(164-15A).

REPLACED LEFT AND RIGHT INDUCTION AIR FILTERS P/N:(RU-1620).

REPLACED LEFT AND RIGHT PROTECTIVE WING STUB SHIELDS.

REPLACED RIGHT OUTBOARD FLAP BONDING STRAP.

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

CHRISTIAN HEDRICK

A&P/IA 3740465

CARRIED FORWARD