

AIRCRAFT S/N  
42.ACO64

# AIRCRAFT TECHNICAL LOGS

## Section 2. RECORD OF INSTALLATIONS & MODIFICATIONS TO AIRCRAFT

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BOOK!

AIRFRAME LOG

1. Nationality and Registration N464TS
2. Manufacturer's Designation DA 42
3. Record of
  - (a) Engine Installations
  - (b) Propeller Installations
  - (c) Airworthiness Directives (A/D)
  - (d) Service Bulletins (S/B)
  - (e) Special Inspections (S/I)
  - (f) Modifications (MODS)







# RECORD OF AIRFRAME AIRWORTHINESS DIRECTIVES (A/D), SERVICE BULLETINS (S/B),

DATE	A/D, S/B, S/I, MODS	DETAILS OF
		<p style="text-align: center;"><b>◆Diamond</b></p> <p style="text-align: center;">Date: <b>31 MAY, 2007</b> S/N: 42.AC064 Reg: N464TS  TTAF: 5.0 HRS Engine LH S/N: 02-01-1249 Engine RH S/N: 02-01-1250  Propeller LH S/N: 061180 Propeller RH S/N: 061181  1 of 2</p> <p>The following S/B and S/I have been carried out as applicable:</p> <p>LBA AD D-2004-457/R2 - in case of failure of elec. power supply - C/W by TAE  LBA AD D-2004-473 - Detachment of high press. pump mounting bolts - C/W by TAE  LBA AD D-2005-152/R1 - Chapter 5 to TAE Ops &amp; Mainten. Manual - C/W by TAE  DAI-A AD D-2005-145 - Thielert Software m2.7 - C/W  DAI-A AD D-2005-229/R1, S142-007 - Engine, Exchange of the clutch disk  only if Engine or Clutch has been replaced - N/A  ACG AD No. A-2005-003/MSB 42-005 - Issuance of a TR to AFM for one Eng - N/A  DAI-A MSB 42-006/1 - Exchange of safety walk on wing stubs - N/A  DAI-A MSB 42-007 - Software for TAE Engine, approved version - C/W ver m2.7  DAI-A MSB 42-008/3 - Software for Garmin G1000 - C/W 370-14 installed  DAI-A MSB 42-010/1 - Relocation of Config Module, KCM 100 - N/A  DAI-A MSB 42-016/2 - Installation improved breather line ATA-Code:71-00 - C/W  DAI-A MSB 42-017 - Oil Lines ATA-Code:79-00 - C/W  DAI-A MSB 42-019/4 - Exchange of Aux Fuel Tank Filter - C/W  DAI-A MSB 42-021 - Inspection of clearance of exhaust pipe - C/W  DAI-A MSB 42-024/3 (EASA-AD: 2006-0277)-Install Prop System valve bracket -C/W  DAI-A MSB 42-027/1 - Engine replacement requires engine control harness  Replacement(at next engine change/replacement) - N/A  DAI-A MSB 42-028 - Engine replacement (at next engine change/replacement)  Requires Electrical Harness Sealant - N/A  DAI-A MSB 42-030/2 - Check of return fuel line installation on Common Rail - C/W  during Mfg.  DAI-A MSB-031/1 - Inspection of repair of MLG brace rib - N/A by A/C S/N.  DAI-A MSB 42-032/1 (EASA AD: 2007-0047) - Installation of a ventilation hole filler  cap fitting Aux. Tank - Incorp. during Mfg.  DAI-A MSB 42-035 - Coolant Tank Cap Pressure Relieve Test - C/W during Mfg,  Required @ 200 HR Inspection.  DAI-A MSB 42-038/1 - Installation of Modified Water Tube Bracket - C/W  DAI-A OSB 42-001/2 - Possible retrofit installation of design changes - N/A  DAI-A OSB 42-009 - Installation of two additional hinges to forward cargo doors - N/A  DAI-A OSB 42-013 - Installation of Auxiliary Fuel Tank, ATA-Code:28-00 - Incorp.  during Mfg.  DAI-A OSB 42-014/4 - Increase of maximum Take Off Mass - C/W  DAI-A OSB 42-015/2 - Installation of ice protection system ATA-Code:30-00 -  C/W  DAI-A OSB 42-018 - Installation of WX-500 Stormscope - C/W  DAI-A OSB 42-019 - Recommended Temporary deact of Aux Fuel Tank - NCW  DAI-A OSB 42-023 - Optional retrofit installation of an oxygen system - N/A  DAI-A OSB 42-040 - Installation of ECU P/N 02-7610-55181R1 - Optional, CW.  DAI-A RSB 42-025 - Improved Fuel Probe - C/W during Mfg.  DAI-A RSB 42-029 - Installation of additional Positioning Pins for the Canopy - C/W  DAI-A RSB 42-036 - Instal. of Water Separator in the MAP-Lines of ECU - C/W  DAI-A RSB 42-041 - Welding reinforcement-cabin heat exchanger - NCW  TAE SB TM TAE 125-0001,R2 - Engine Lifetime of 1000 Flight Hours/12 years -  Due at 1000 HRS  TAE SB TM TAE 125-0002,R3 - Each 300 Flight Hours; Inspection of Gearbox,  Gearbox oil and filter, Engine oil and filter -  Due after each 300 flying hours  TAE SB TM TAE 125-0003,R6 - Oil pressure sensor, prevention of damages - FPCW  TAE SB TM TAE 125-0004,R4 - New version of firmware and mapping - FPCW  TAE SB TM TAE 125-0005 - Conversion to compression 18:1 - N/A by S/N  TAE SB TM TAE 125-0006,R4 - Current level of firmware, mapping compression  ratio 18:1 - See TM TAE 125-0004,R4  TAE SB TM TAE 125-0007,R5 - Cooling, prevention of electrochemical corrosion -  FPCW  TAE SB TM TAE 125-0008,R3 - Function of Alternator in case of a failure of the  electrical aircraft power supply - N/A by Alt. P/N  TAE SB TM TAE 125-0009,R1 - Screw Retention - Bearing Shield High Pressure  Pump - N/A by Pump P/N  TAE SB TM TAE 125-0010 - Airworthiness Limitation Section, Operation &amp;  Maintenance Manual - N/A as New A/C,  Due at 100 HRS  Bi-weekly AWD check carried out to current revision 2007- 12  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 <u>Jean M. Relat</u> Lic or Stamp <u>DA Q29</u></p>



DATE	A/D,	S/B,	S/I,	MODS	DETAILS OF	WORK OR INSPECTION PERFORMED	SIGNATURE	LICENCE NUMBER
					<p><b>Diamond</b></p> <p>Date: 31 MAY, 2007 S/N: 42.AC064 Reg: N464TS            TTAF: 5.0 HRS Engine LH S/N: 02-01-1249 Engine RH S/N: 02-01-1250            Propeller LH S/N: 061180 Propeller RH S/N: 061181            2 of 2</p> <p>The following S/B and S/I have been carried out as applicable:            TAE SB TM TAE 125-0011.R3 - Exchange of the clutch disk - N/A            TAE SB TM TAE 125-0012.R1 - Customer furnished parts - C/W during Mfg.            TAE SB TM TAE 125-0013.R1 - Gearbox oil filter - FPCW            TAE SB TM TAE 125-0015.R2 - Aluminum Pipe Combined Pump - Module Block - C/W            TAE SB TM TAE 125-00 16 - Adapter Catchtank for Turbocharger - FPCW            MT-Propeller SB 1AD - Time between Overhaul of Propellers, Governors and Oil-Accumulators (TBO) 2000 HRS/72 Months - See SB For Approved Time limits/schedule, information only.            MT-Propeller SB 16J - List of Mt-Propeller installations - N/A by M/N of A/C            Bi-weekly AWD check carried out to current revision 2007- 12            The maintenance described above has been performed in accordance with the applicable standards of airworthiness.            DIAMOND AIRCRAFT INDUSTRIES INC. D.O.T. APPROVAL</p> <p>Signature: <i>Jan M. Rellal</i> Lic or Stamp: <b>DA Q 23</b></p>			
					<p>1785 kg Take-off Mass</p> <p>Temporary Revision to DA 42 S/N 42.AC064 AMM, AMM-TR-MAM-42-088 1785 kg Take-off Mass - see attached</p>		<i>Jan M. Rellal</i>	<b>DA Q 23</b>



**Diamond**

Date: 31 MAY, 2007 S/N: 42.AC064 Reg: N464TS  
TTAF: 5.0 HRS Engine LH S/N: 02-01-1249 Engine RH S/N: 02-01-1250  
Propeller LH S/N: 061180 Propeller RH S/N: 061181

2 of 2

The following S/B and S/I have been carried out as applicable:

TAE SB TM TAE 125-0011, R3 – Exchange of the clutch disk – N/A

TAE SB TM TAE 125-0012,R1 - Customer furnished parts - C/W during Mfg.

TAE SB TM TAE 125-0013,R1 – Gearbox oil filter – FPCW

TAE SB TM TAE 125-0015,R2 - Aluminum Pipe Combined Pump - Module Block  
- CW

TAE SB TM TAE 125-00 16 – Adapter Catchtank for Turbocharger – FPCW

MT-Propeller SB 1AD - Time between Overhaul of Propellers, Governors and Oil-Accumulators (TBO) 2000 HRS/72 Months - See SB

For Approved Time limits/schedule, information only.

MT-Propeller SB 16J – List of Mt-Propeller installations – N/A by M/N of A/C

Bi-weekly AWD check carried out to current revision 2007- **12**

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

DIAMOND AIRCRAFT INDUSTRIES INC. D.O.T. APPROVAL #16793

Signature James M. Rolland Lic or Stamp 023

Signature Jane M. Holland Lic or Stamp \_\_\_\_\_

1785 kg Take-off Mass

Temporary Revision to DA 42 S/N 42AC064 AMM, AMM-TR-MAM-42-088 1785 kg Take-off Mass - see attached

→ Jason. R. Black

DA  
Q 23



## TEMPORARY REVISION

### AMM-TR-MÄM-42-088

### 1785 kg Take-off Mass

This Temporary Revision AMM-TR-MÄM-42-088 is approved in conjunction with the Mandatory Design Change Advisories MÄM 42-088 and MÄM 42-102 and is valid in conjunction with the Airplane Maintenance Manual (AMM) until this Temporary Revision has been incorporated into the AMM.

The limitations and information contained herein either supplement or, in the case of conflict, override those in the AMM.

The technical information contained in this document has been approved under the authority of DOA No. EASA.21J.052.

Doc. No.	Section	Affected Pages
7.02.01	08-10-00	7a

#### Instruction

- › Print this document single-sided on yellow paper.
- › Insert this cover page as the first page of the AMM.
- › Insert the other page of this Temporary Revision in front of the corresponding AMM page.

## WEIGHING REPORT

Model: DA 42 Serial Number: \_\_\_\_\_ Registration: \_\_\_\_\_

Data with reference to the Type Certificate Data Sheet and the Airplane Flight Manual.

Reference Plane: Vertical plane 2196 mm (86.46 in) in front of the leading edge of wing at the root rib.

Horizontal reference line: Front baggage compartment floor, left side.

Equipment Inventory - dated: \_\_\_\_\_ Cause for Weighing: \_\_\_\_\_

## Weight and Balance Calculations (Weighing at the wheels)

Weight Condition: Include brake fluid, hydraulic fluid, coolant, engine oil and unusable fuel (7.57 • liters/2 US gal.)

Support	Gross	Tare	Net	Lever Arm
MAIN $G_{LH}$				$X_{LH} = 2780 \text{ mm (109.45 in.)}$
MAIN $G_{RH}$				$X_{RH} = 2780 \text{ mm (109.45 in.)}$
NOSE $G_2$				$X_2 = 925 \text{ mm (36.42 in.)}$
Empty Weight				

Calculate the Empty Weight, $G = \text{MAIN } G_{LH} + \text{MAIN } G_{RH} + \text{NOSE } G_2$		$G =$
Calculate the Empty Weight Moment, $M = (G_{LH} \cdot X_{LH}) + (G_{RH} \cdot X_{RH}) + (G_2 \cdot X_2)$		$M =$
Calculate the Empty Weight Center-of-Gravity position, $X_{CG} = M/G$		$X_{CG} =$
% Maximum permitted all-up-weight:	MAM 42-068 not carried out	1700 kg (3748 lb.)
% Max AUW.	MAM 42-068 carried out	1785 kg (3935 lb.)
Maximum useful load = Max AUW - G.		

Record the Empty Weight (G) and the Empty-Weight Moment (M) in the Airplane Flight Manual.

Place/Date	Authorizing Stamp	Authorizing Signature
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Figure 4: Weighing Report for Mechanical Scales Under the Wheels



# RECORD OF AIRFRAME AIRWORTHINESS DIRECTIVES (A/D), SERVICE BULLETINS (S/B),

DATE

A/D,

S/B,

S/I,

MODS

DETAILS

OF



Date: October 19, 2011

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

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 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 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 C/W as per action #1 of this SB  
 MSB42NG-016/1 - Rudder control System & NLG steering reinforcement C/W. NOTE: Repetitive inspections 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 C/W as per WI MSB 42NG-022  
 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 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 OSB42-068/1 rev 9  
 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 has been installed as part of OSB42-068/1 rev 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.  
 RSB-42-072/2 - 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 P/N DA4-5200-00-69\_1 C/W. as per action #1 of the 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 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

Signature:

Lic or Stamp:





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**Lic. Or Stamp**

