

AIRCRAFT S/N
42.AC064

AIRCRAFT TECHNICAL LOGS

Section 2. RECORD OF INSTALLATIONS & MODIFICATIONS TO AIRCRAFT

NO STAMP IN THIS
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 ENGINE &

PROPELLER INSTALLATION

DATE	ENGINE OR PROPELLER MAKE & MODEL	SERIAL NO.	POSITION	DATE INSTALLED	DATE REMOVED	REMARKS - REASON FOR CHANGE	SIGNATURE	LICENCE NUMBER
MAY 31 2007	THIELERT AIRCRAFT ENGINES GMBH TAE 125-01	02-01-1249	LH	MAY 2007	/	LH ENGINE INSTALLED NEW ON DA 42 S/N 42.AC064	Jean M. Rihel	DA Q 23
MAY 31 2007	THIELERT AIRCRAFT ENGINES GMBH TAE 125-01	02-01-1250	RH	MAY 2007	/	RH ENGINE INSTALLED NEW ON DA 42 S/N 42.AC064	Jean M. Rihel	DA Q 23
MAY 31 2007	THIELERT AIRCRAFT ENGINES GMBH MTV-6-A-C-F/CF187-129	061180	LH	MAY 2007	/	LH PROPELLER INSTALLED NEW ON DA 42 S/N 42.AC064	Jean M. Rihel	DA Q 23
MAY 31 2007	MT PROPELLER ENT/CLKLWNG GMBH MTV-6-A-C-F/CF187-129	061181	RH	MAY 2007	/	RH PROPELLER INSTALLED NEW ON DA 42 S/N 42.AC064	Jean M. Rihel	DA Q 23
AUG 20 2011	MT PROPELLER MTV-6-A-C-F/CF187-009	061180	LH	AUG 20 2011	PROPS TSN: 100-9	HRS. Removed this date to facilitate engine change.	Jean M. Rihel	DA R06
AUG 20 2011	MT PROPELLER MTV-6-A-C-F/CF187-009	061181	RH	AUG 20 2011	PROPS TSN: 100-9	HRS. Removed this date to facilitate engine change.	Jean M. Rihel	DA R06
AUG 29 2011	THIELERT AIRCRAFT ENG. TAE 125-01	02-01-1249	LH	AUG 29 2011	Engine TSN: 100-9	HRS. Removed this date to facilitate new engine installation	Jean M. Rihel	DA R06
AUG 29 2011	THIELERT AIRCRAFT ENG. TAE 125-01	02-01-1250	RH	AUG 29 2011	Engine TSN: 100-9	HRS. Removed this date to facilitate new engine installation	Jean M. Rihel	DA R06
OCT 12 2011	Astro Engine EA-83	EA8-00216	LH	OCT 12 2011	NEW O TIME ASTRO	ENGINE INSTALLED 1.A.W. 05842-068/1	Jean M. Rihel	DA R06
OCT 12 2011	Astro Engine EA-83	EA8-00216	RH	OCT 12 2011	NEW O TIME ASTRO	ENGINE INSTALLED 1.A.W. 05842-068/1	Jean M. Rihel	DA R06
OCT 12 2011	MT PROPELLER MTV-6-R-C-F/CF187-129.071643	LH	OCT 12 2011	NEW O TIME MT. PRO	? WITH MT SI NO. 48C ENBODYED INSTALLED.	Jean M. Rihel	DA R06	
OCT 12 2011	MT PROPELLER MTV-6-R-C-F/CF187-129.070579	RH	OCT 12 2011	NEW O TIME MT. PRO	? WITH MT SI NO. 48C ENBODYED INSTALLED	Jean M. Rihel	DA R06	

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

RECORD OF AIRFRAME
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SPECIAL INSPECTIONS (S/I) AND MODIFICATIONS (MODS)

DATE	A/D.	S/B.	S/I.	MODS	DETAILS OF	WORK OR INSPECTION PERFORMED	SIGNATURE	LICENCE NUMBER
					<p>Diamond</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-Accumulator (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.</p> <p>DIAMOND AIRCRAFT INDUSTRIES INC. D.O.T. APPROVAL #10783</p> <p>Signature: <i>John M. Relal</i> DA 023 Lic or Stamp: 023</p>			
					1785 kg Take-off Mass	Temporary Revision to DA 42 S/N 42.AC064 AMM, AMM-TR-MAM- 42-088 1785 kg Take-off Mass - See attached	<i>John M. Relal</i>	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_{1LN}				$X_{1LN} = 2780 \text{ mm (109.45 in.)}$
MAIN G_{1RH}				$X_{1RH} = 2780 \text{ mm (109.45 in.)}$
NOSE G_2				$X_2 = 925 \text{ mm (36.42 in.)}$
Empty Weight				

Calculate the Empty Weight, $G = \text{MAIN } G_{1LN} + \text{MAIN } G_{1RH} + \text{NOSE } G_2$		$G =$
Calculate the Empty Weight Moment, $M = (G_{1LN} * X_{1LN}) + (G_{1RH} * X_{1RH}) + (G_2 * X_2)$		$M =$
Calculate the Empty Weight Center-of-Gravity position, $X_{CG} = M/G$.		$X_{CG} =$
% Maximum permitted all-up-weight:	MÄM 42-088 not carried out	1700 kg (3748 lb.)
% Max AUW.	MÄM 42-088 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
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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: Mark Hansen Lic or Stamp: DA RO6

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