

Diamond Aircraft Industries GmbH N. A. Otto-Straße 5 A-2700 Wiener Neustadt DAI MSB-42-032/1 Page 1 of 3 24-Jan-2007

MANDATORY SERVICE BULLETIN

NO. MSB-42-032/1

SUPERSEDES MSB-42-032

I <u>TECHNICAL DETAILS</u>

I.1 Category

Mandatory

I.2 Airplanes affected

Type: DA 42 Serial Numbers: 42.015, 42.028, 42.036, 42.044, 42.055, 42.059, 42.062, 42.067, 42.069, 42.075 up to and incl. 42.100, 42.105, 42.106, 42.108, 42.114, 42.115, 42.117 up to and incl. 42.122, 42.124

I.3 <u>Time of Compliance</u>

Within the next scheduled maintenance action, but not later than 31-Mar-2007

NOTE:

Prior compliance with MSB42-032 does not preclude compliance with this MSB.

I.4 Subject

- Installation of a ventilation hole in Filler Cap Fitting, Auxiliary Fuel Tank
- Inspection of the Auxiliary Fuel Tank
- Inspection of the Fuel Tank Ventilation line
- Incorporation of the AMM-TR-OÄM-42-056f into the DA42 AMM

ATA-Code: 28



I.5 <u>Reason</u>

Sufficient ventilation of the auxiliary tank, to prevent from possible damage.

I.6 <u>Concurrent Documents</u>

None

I.7 Approval

The technical information or instructions contained in this document relate to the Design Change Advisory No. OÄM 42-056/g, which has been approved under the authority of DOA No. EASA.21J.052.

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

I.8 Accomplishment / Instructions

WI-MSB-42-032, Rev 1 or later effective issue must be complied with.

I.9 Mass (Weight) and CG

Not affected.

II PLANNING INFORMATION

II.1 Material & Availability

None

II.2 Special Tools

None

II.3 <u>Credit</u>

None

II.4 Labor effort:

Approx. 1 hour



II.5 <u>Reference Documents</u>

DA 42 Airplane Maintenance Manual Doc. No. 7.02.01, latest effective issue WI-MSB-42-032 latest effective issue. AMM-TR-OÄM-42-056f

III <u>REMARKS</u>

- 1. The work must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic, according to the relevant National procedures.
- 2. Accomplishment of the measures must be confirmed in the log book.
- 3. In case of any doubt, contact Diamond Aircraft Industries.



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WORK INSTRUCTION

WI-MSB-42-032

"Installation of a ventilation hole, Auxiliary-Tank"

I GENERAL INFORMATION

I.1 Subject:

Installation of a ventilation hole in Filler Cap Fitting, Auxiliary Tank.

I.2 <u>Reference Documents:</u>

Diamond Aircraft AMM Airplane Maintenance Manual, Doc. No. 7.02.01, latest effective issue.

I.3 <u>Remarks:</u>

- a) The work must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic, according to the relevant National procedures.. In case of doubt, contact Diamond Aircraft.
- b) All works, particular those that are not especially described in this work instruction, have to be carried out in accordance with the referenced maintenance manual.

II DRAWINGS, SPECIAL TOOLS & MATERIALS

II.1 Drawings:

D60-2814-00-30 "f"

II.2 Special Tools:

Right angel drill



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II.3 Material:

None

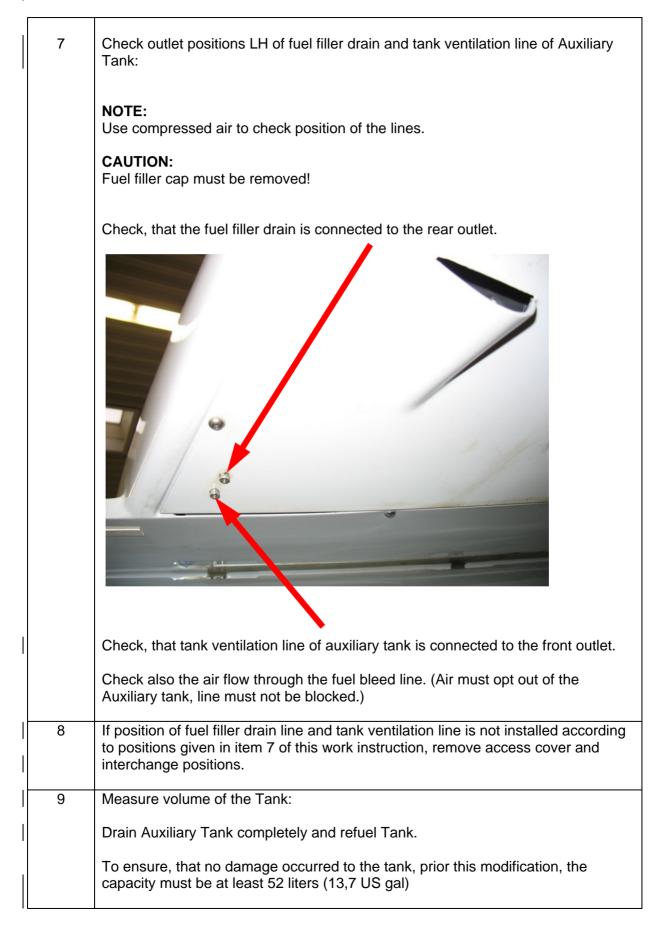
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III INSTRUCTIONS

	NOTE:
	If WI-MSB-42-032, rev. 0 has been carried out, start with item 7 of this Work Instruction.
1	Remove fuel filler cap and check filler cap fitting, if ventilation hole is drilled. (Refer to drawing D60-2814-00-30 "f", Section C-C.)
	Note: Filler cap fittings with revision level "f" or higher have the ventilation hole already installed.
2	If ventilation hole is not installed (prior revision level "f" of fuel filler fitting) :
	Seal fuel filler inlet for instance with tape. (Debris must not fall into the auxiliary tank)
3	Drill hole, diameter 1.5 mm (0.06 in) in filler cap fitting according to drawing D60-2814-00-30 "f", Section C-C
4	Remove tape from fuel filler inlet.
5	Clean working area and check for foreign objects.
6	Perform Items 1 to 5 for RH side.



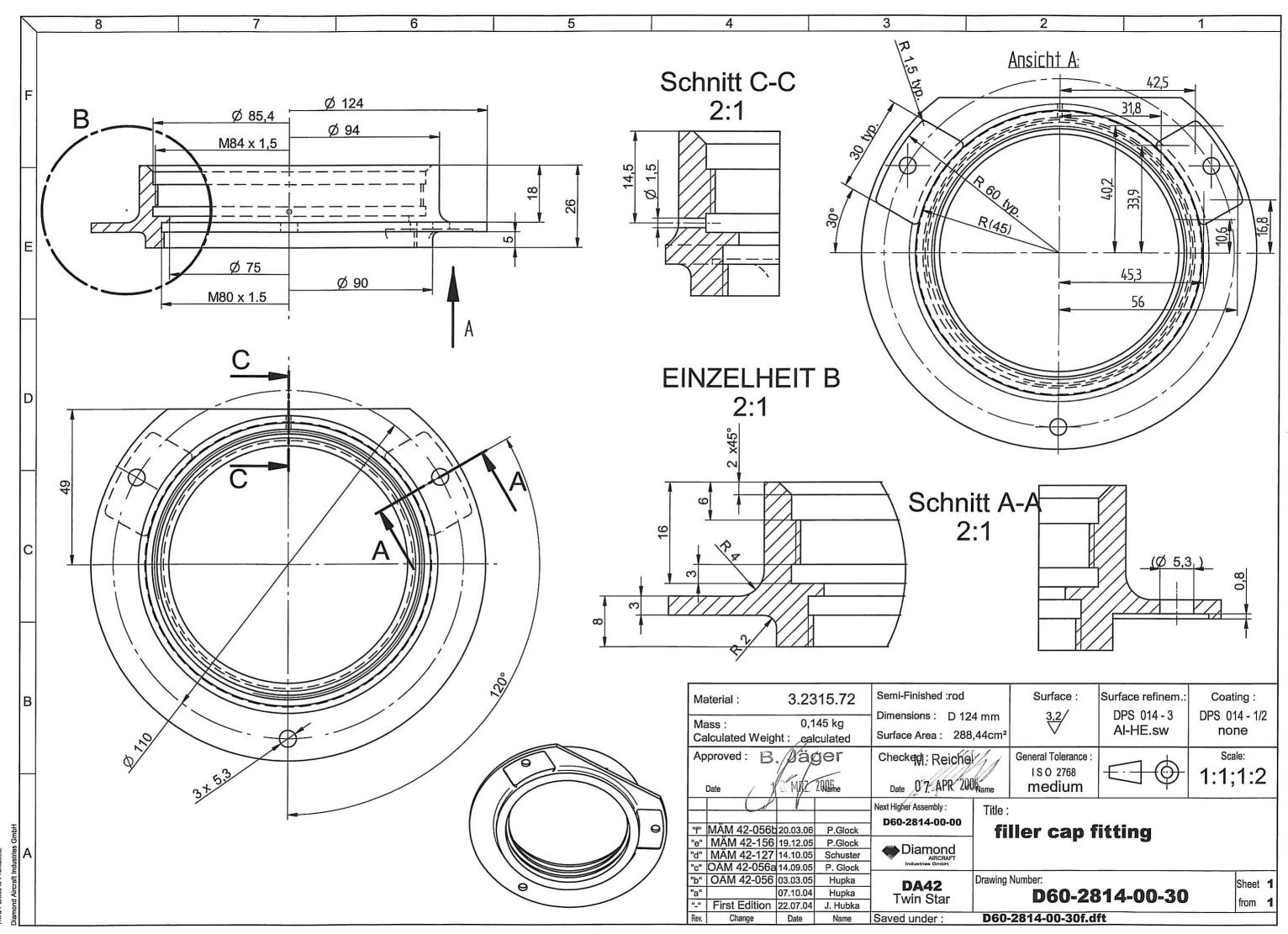
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	If fuel quantity is lower than 52 liters (13,7 US gal), replace Auxiliary Tank according to AMM.
10	Prepare item 7 to item 9 for RH side.
11	Check modified parts for proper function.
12	Incorporate Temporary Revision TR-OÄM-42-056/f into AMM.
13	Make necessary entries in aircraft logs.



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EASA	AIRW	ORTHINESS DIRECTIVE
X	AD No : 2007-004	17
X	Date: 23 Februar	y 2007
No person may operate requirements of that Air	an aircraft to which an Airworth worthiness Directive unless othe	iness Directive applies, except in accordance with the erwise agreed with the Authority of the State of Registry.
	Holder's Name :	Type/Model designation(s) :
Diamond Aircraf	t Industries GmbH	DA 42
TCDS Number : E	ASA.A.005	
Foreign AD : not a	pplicable	
Supersedure : not	applicable	•
•, <u></u>	· · ·	
ATA 28		em – Auxiliary Fuel Tank Venting- nspection / Modification
Manufacturer:	Diamond Aircraft Indust	ries GmbH
Applicability:	42.055, 42.059, 42.062, 42.105, 42.106, 42.108,	rial numbers 42.015, 42.028, 42.036, 42.044, , 42.067, 42.069, 42.075 up to 42.100 inclusive, , 42.114, 42.115, 42.117 up to 42.122 inclusive
	and 42.124	
Reason:	From airplanes that hav Design Change (OÄM) auxiliary fuel tank ventir have led to the inability the main tanks and the that the vent lines were	e installed the Auxiliary Fuel Tank Optional No 42-056, three in-service failures of the ng system have been reported. These failures to supply the complete auxilliary fuel quantity to collapse of the auxilliary tank. It is suspected obstructed either by ice accretion under certain blockage of the vent valves because of fuel
Reason:	From airplanes that hav Design Change (OÄM) auxiliary fuel tank ventin have led to the inability the main tanks and the that the vent lines were climatic conditions or by contaminants. Undetected malfunction	No 42-056, three in-service failures of the ng system have been reported. These failures to supply the complete auxilliary fuel quantity to collapse of the auxilliary tank. It is suspected obstructed either by ice accretion under certain blockage of the vent valves because of fuel s of the venting system and damaged auxiliary lower usable fuel quantity, subsequent fuel
Reason:	From airplanes that hav Design Change (OÄM) auxiliary fuel tank ventin have led to the inability the main tanks and the that the vent lines were climatic conditions or by contaminants. Undetected malfunction fuel tanks may lead to a starvation and/or fuel sp This Airworthiness Direct	No 42-056, three in-service failures of the ng system have been reported. These failures to supply the complete auxilliary fuel quantity to collapse of the auxilliary tank. It is suspected obstructed either by ice accretion under certain blockage of the vent valves because of fuel s of the venting system and damaged auxiliary lower usable fuel quantity, subsequent fuel

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	fitting and introduction of a temporary revision into the Aircraft Maintenance Manual (AMM).]
Effective Date:	09 March 2007	1
Compliance:	At the next scheduled Inspection, but no later than 15 April 2007:	1
	 Inspect and modify the auxiliary fuel tank system as instructed in the Diamond Aircraft Industries Mandatory Service Bulletin (MSB) 42- 032/1. 	
	 Insert into the DA 42 Maintenance Manual the AMM-TR-OÄM-42-056f Temporary Revision and update accordingly the operator's maintenance program to comply with. 	
Ref. Publications:	Diamond Aircraft Industries Mandatory Service Bulletin MSB 42-032/1	Ņ
	or later approved revisions. DA 42 Maintenance Manual AMM-TR-OÄM-42-056f Temporary Revision	
Remarks :	 If requested and appropriately substantiated the responsible EASA manager for the related product has the authority to accept Alternative Methods of Compliance (AMOCs) for this AD. 	
	 This AD was posted as PAD 07-015 for consultation on 25 January 2007 until 16 February 2007. No comments were received during the consultation period. 	
	 Enquiries regarding this Airworthiness Directive should be addressed to the AD Focal Point - Certification Directorate, EASA. E-mail: <u>ADs@easa.europa.eu</u> 	
	 For any question concerning the technical content of the requirements in this AD, please contact Diamond Aircraft Industries GmbH, Austria. Ph.: +43 2622 26700 ; Fax: +43 2622 26780 E-mail:<u>office@diamond-air.at</u> 	