

# MANDATORY SERVICE BULLETIN NO. MSB-42-021

# I <u>TECHNICAL DETAILS</u>

## I.1 Category

Mandatory

### I.2 Airplanes affected

Type: DA 42

Serial Numbers: 42.007 – 42.140, 42.177

## I.3 Date of affectivity

20-Jun-2006

#### I.4 <u>Time of Compliance</u>

At next 100 hrs inspection, but not later than 31-Aug-2006.

#### I.5 Subject

Inspection of clearance of exhaust pipe.

Exhaust ATA-Code 78

#### I.6 <u>Reason</u>

Poorly aligned exhaust pipes in combination with too tight cut outs in the cowling cause too less clearance between the exhaust pipes and the cowling. This leads to additional constraint forces onto the pipes leading to cracks in the exhaust pipes near the flange.

#### I.7 Concurrent Documents

None.



#### I.8 Approval

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

#### I.9 Accomplishment/Instructions

Comply with WI-MSB-42-021.

#### I.10 Mass (Weight) and CG

n. a.

## II PLANNING INFORMATION

#### II.1 Material & Availability

WI-MSB-42-021 is attached to this SB.

#### II.2 Special Tools

None.

#### II.3 Labor effort:

Approx. 0.75 hours.

#### II.4 Credit

Labor credit of 0.75 hours. All work must be completed and a claim submitted not later than 7-Sep-2006.

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

Diamond Aircraft DA 42 Airplane Maintenance Manual, Doc. No. 7.02.01 latest effective issue.



## III <u>REMARKS</u>

- 1) All measures must be carried out by a certified aircraft station or a certified aircraft mechanic.
- 2) Warranty applications must be sent via the local Diamond Aircraft general distributor or Diamond Aircraft service center.
- 3) In case of doubt, contact Diamond Aircraft.



Revision 0 Page 1 of 4 13-Jun-2006

# WORK INSTRUCTION

# WI-MSB-42-021

# "Inspection of clearance of exhaust pipe"

# I GENERAL INFORMATION

## I.1 Subject:

Inspection of clearance of exhaust pipe.

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

Diamond Aircraft DA 42 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. 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:

None.

## II.2 Special Tools:

None.

## II.3 Material:

None.



Diamond Aircraft Industries GmbH N. A. Otto-Straße 5 A-2700 Wiener Neustadt

Revision 0 Page 2 of 4 13-Jun-2006

# III INSTRUCTIONS

1	Remove top cowlings in accordance with the AMM Section 71-10
2	Check clearance of exhaust pipe to all components.
3	If the exhaust pipe is not centered properly, loosen the nuts on the flange and try to rearrange the pipe so that the clearance to all components is a maximum.



Diamond Aircraft Industries GmbH N. A. Otto-Straße 5 A-2700 Wiener Neustadt

Revision 0 Page 3 of 4 13-Jun-2006





Diamond Aircraft Industries GmbH N. A. Otto-Straße 5 A-2700 Wiener Neustadt

Revision 0 Page 4 of 4 13-Jun-2006

5	Widen the cutout where the pipe leads through the cowling, clearance 8 to 12
	mm.
6	Clean working area and check for foreign objects.
7	Perform functional check of altered, repaired and new parts.
8	Test all systems in working area for function.
9	Install top cowlings in accordance with the AMM Section 71-10
10	Repeat procedure (step 1 to 8) for the 2 <sup>nd</sup> engine.
11	Make necessary entries in the aircraft logs.