

# MANDATORY SERVICE BULLETIN

## MSB 42-077

## MSB 42NG-007

### I TECHNICAL DETAILS

#### I.1 Category

Mandatory.

#### I.2 Airplanes affected

Type: DA 42, DA 42 M, DA 42 NG, DA 42 M-NG

Serial numbers: 42.004 through 42.416, 42.427  
42.M001 through 42.M025,  
42.AC001 through 42.AC152,  
42.N001 through 42.N044,  
42.MN001 through 42.MN007

#### I.3 Date of effectivity

14-Jul-2010

#### I.4 Time of Compliance

Within 200 flight hours, but not later than 31-Aug-2011.

#### I.5 Subject

Check of emergency exit lever.

ATA-Code: 52-00

#### I.6 Reason

During maintenance action on some airplanes it was found that the emergency exit lever was sitting so tight that smooth operation of the door release was not guaranteed. In order to ensure an instant and smooth door release on every aircraft possibly affected a check of emergency release and corrective actions if required are prescribed on these aircraft.

**I.7 Concurrent Documents**

None.

**I.8 Approval**

The technical information or instructions contained in this document relate to the Design Change Advisories No. MÄM 42-312 and MÄM 42-314, which have been approved under the authority of EASA Design Organization Approval ref. EASA.21J.052.

The technical content of this document has been approved under the authority of DOA ref. EASA.21J.052.

**I.9 Accomplishments / Instructions**

Comply with WI-MSB 42-077 / WI-MSB 42NG-007, latest effective issue.

Note: WI-MSB 42-077 / WI-MSB 42NG-007 is attached to this document.

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

Mass and Center of Gravity are not affected.

**II PLANNING INFORMATION****II.1 Material and Availability**

See WI-MSB 42-077 / WI-MSB 42NG-007, latest effective issue.

**II.2 Special Tools**

None.

**II.3 Labour Effort**

Approx. 1 hour.

**II.4 Credit**

For all AC within warranty period:

1 hour of labour and material according to WI-MSB 42-077 / WI-MSB 42NG-007, latest effective issue.

## **II.5 Reference Documents**

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

Diamond Aircraft DA 42 NG Airplane Maintenance Manual, Doc. No. 7.02.15, latest effective issue.

## **III REMARKS**

1. All measures must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic.
2. All works, particular those that are not especially described in this Service Bulletin, must be carried out in accordance with the referenced Maintenance Manual.
3. Accomplishment of the measures must be confirmed in the log book.
4. If material and/or labor hours are subject to be credited through Diamond Aircraft Industries, the Service Bulletin must be carried out by an authorized Diamond Service Center and the Warranty Application incl. Work Report must be sent not later than 30 days after the end of time of compliance.
5. In case of doubt contact Diamond Aircraft Industries GmbH.

**EXECUTION REPORT TO  
SERVICE BULLETIN  
MSB 42-077  
MSB 42NG-007**

## AIRPLANE DATA

Airplane Serial Number: \_\_\_\_\_

Airplane Registration: \_\_\_\_\_

Airplane Operator: \_\_\_\_\_

Hours of operation of airplane: \_\_\_\_\_

No. of landings: \_\_\_\_\_

Hours of operation-engine LH \_\_\_\_\_

Hours of operation-engine RH \_\_\_\_\_

Typical operation of airplane: private, club, training, other \_\_\_\_\_

Emergency exit lever exchanged Yes  No \_\_\_\_\_  
Date, Name, SignPlease fax the completed form to Fax No. +43-2622-26700-1369 or e-mail to  
airworthiness@diamond-air.at

# WORK INSTRUCTION

## WI-MSB 42-077

## WI-MSB 42NG-007

### Check of emergency exit lever

#### **I GENERAL INFORMATION**

##### **I.1 Subject**

Check of the emergency lever function and rework if necessary.

##### **I.2 Reference Documents**

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

Diamond Aircraft DA 42 NG Airplane Maintenance Manual, Doc. No. 7.02.15, latest effective issue.

##### **I.3 Remarks**

- a) The work must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic.
- b) All works, particular those that are not especially described in this work instruction, must be carried out in accordance with the referenced maintenance manual.
- c) It is recommended to print this Work Instruction in color.
- d) In case of doubt, contact Diamond Aircraft Industries GmbH.

## **II DRAWINGS, SPECIAL TOOLS & MATERIALS**

### **II.1 Drawings**

None.

### **II.2 Special Tools**

None.

### **II.3 Material**

Quantity	Part No.	Description
1 if required	DA4-5200-71-00_1	Emergency exit lever

Materials including special tools are available from Diamond Aircraft Industries.

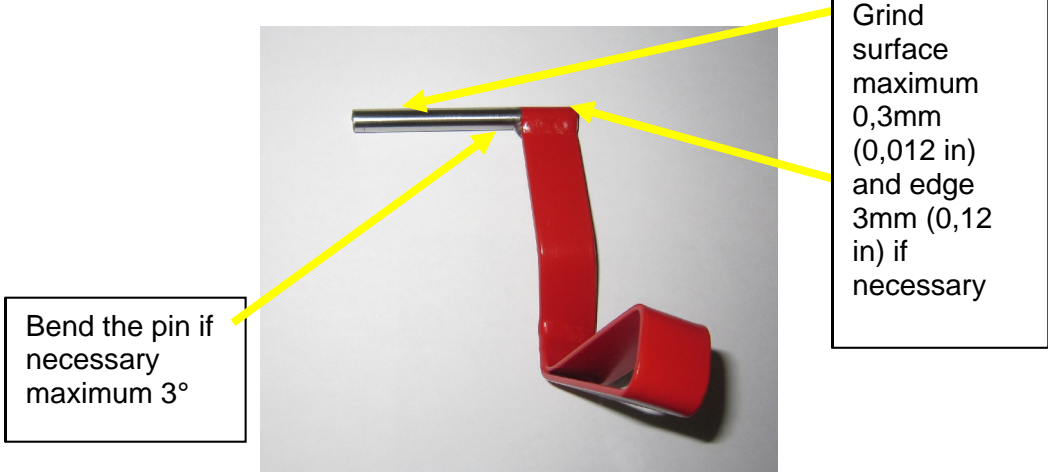
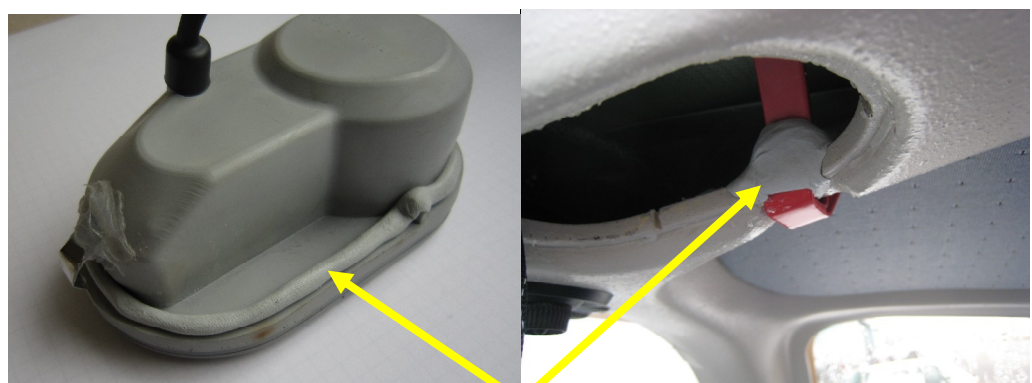
### **II.4 Consumables**


Quantity	Part No.	Description
a. r.	180TE43191 or 128.95_R	Terostat-IX Grau 1kg Henkel Terostat-IX 200gr
40cm (16 in)	390-555	Copper wire
1	1966-081	Lead seal

Consumables may be procured locally or from Diamond Aircraft Industries

## **III INSTRUCTIONS**

1	Remove passenger reading light in acc. with AMM Section 33-10. Remove the sealing compound from cockpit roof with caution.
2	Close the pax door and remove lead wire seal to check the pax door emergency lever release function.
3	If the emergency lever can be removed and disconnects the hinge, proceed with item 8. Otherwise perform items 4 through 8 as corrective action.
4	Remove the emergency lever with the rubber hammer carefully. <b>CAUTION:</b> Hold the pax door in position or release the gas spring.

5	<p>Rework lever pin, refer to picture.</p>  <p>Bend the pin if necessary maximum 3°</p> <p>Grind surface maximum 0,3mm (0,012 in) and edge 3mm (0,12 in) if necessary</p> <p>The minimum pin diameter is 5,7mm (0.225 in).</p>
6	<p>Install the modified emergency lever and test the release with hand force. If a release is possible, reinstall the emergency exit lever.</p>
7	<p>If a release is not possible, replace the emergency exit lever with DA4-5200-71-00_1.</p>
8	<p>Seal reading light and emergency lever with Terostat IX.</p>  <p>Sealing Terostat IX</p> <p><b>CAUTION:</b> Do not use silicone or any equivalent to seal the gap.</p>

9	<p>Install lead seal with copper wire P/N 390-555.</p> 
10	Install reading light in acc. with AMM Section 33-10.
11	Clean working area and check for foreign objects.
12	Perform functional check of altered, repaired and new parts.
13	Test all systems in working area for function.
14	Make necessary entries into aircraft logs.