

# RECOMMENDED SERVICE BULLETIN RSB 40NG-052

# I <u>TECHNICAL DETAILS</u>

#### I.1 Category

Recommended.

#### I.2 Airplanes affected

Type:DA 40 NG,Serial numbers:40.N001 through 40.N323Applies to all aircraft equipped with OÄM 40-314 additional<br/>alternator.

#### I.3 Date of effectivity

08-Mar-2017

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

At owner's discretion.

#### I.5 <u>Subject</u>

Improved mounting of 2nd Alternator.

ATA-Code: 24-33

#### I.6 Reason

In order to reduce wear on the mounting arm, this Service Bulletin describes all measures necessary for modifying the attachment to the engine mounting arm.

#### I.7 Concurrent Documents

None.

#### I.8 <u>Approval</u>

The technical information or instructions contained in this document relate to the Design Change Advisory No. OÄM 40-314/t, which has 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

WI-OSB 40NG-052, latest effective issue.



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

None.

## II PLANNING INFORMATION

#### II.1 Material and Availability

See WI-RSB 40NG-052, latest effective issue.

#### II.2 Special Tools

None.

#### II.3 Labour Effort

Approx. 4 hours without cure time.

#### II.4 <u>Credit</u>

None.

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

DA 40 NG Airplane Maintenance Manual, Doc. No. 6.02.15, latest effective issue.

## III <u>REMARKS</u>

- 1. All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
- 2. All work, in particular that which is not especially described in this Service Bulletin, must be done in accordance with the referenced Maintenance Manual.
- 3. Completion of all work must be recorded in the log book.
- 4. In case of doubt contact Diamond Aircraft Industries GmbH.



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

## EXECUTION REPORT TO SERVICE BULLETIN RSB 40NG-052

AIRPLANE INFORMATION	
Airplane Serial Number	
Airplane Registration	
Airplane Operator	
Hours of operation of airplane	
No. of landings	
Hours of operation-engine	
Typical operation of airplane	private, club, training, other

Date, Name, Sign

Please fax the completed form to Fax No. +43-2622-26780 or e-mail to executionreports@diamond-air.at



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# WORK INSTRUCTION WI-RSB 40NG-052

## I GENERAL INFORMATION

#### I.1 Subject

Improved mounting of 2nd Alternator.

#### I.2 Reference Documents

DA 40 NG Airplane Maintenance Manual, Doc. No. 6.02.15, latest effective issue

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

- a) All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
- b) All work, in particular that which is not especially described in this work instruction, must be done in accordance with the referenced maintenance manual.
- c) In case of doubt, contact Diamond Aircraft Industries GmbH.

### II DRAWINGS, SPECIAL TOOLS & MATERIALS

#### II.1 Drawings

None

#### II.2 Special Tools

Reamer 15 H7 Recommended tension gauge: CONTI® VSM-1 V-Belt tension device D44-6116-00-00-SW



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#### II.3 Material

I

Quantity	Part No.	Description	Pos
1	LN 9338-06	Nut Hexagon, self-locking	1
1	DIN 9021-6,4-A2	Washer	2
1	D64-7106-11-30_01	Outer Alternator Bushing	3
1	D64-7106-11-31	Inner Alternator Bushing	4
1	LN 9037-M6x42	Screw, hexagon Head	5
1	MS 21042-6	Nut Double Hex, self-locking	6
1	NL3/8-SPSS	Locking Washer	7
1	NL3/8-SS	Locking Washer	8
1	AN6-12A	Bolt, Machine, Aircraft	9
1	D64-2416-30-30	Alternator Bushing	10

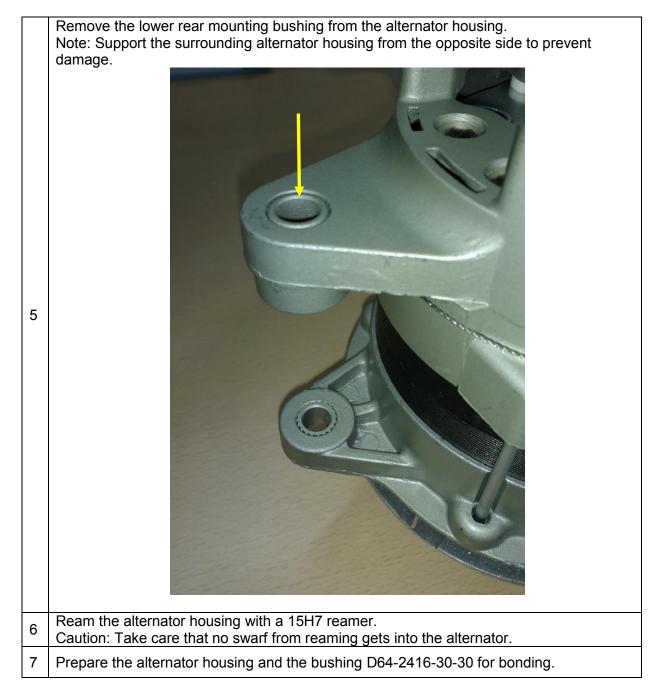
Material is available from Diamond Aircraft Industries.

## III INSTRUCTIONS

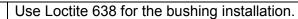
1	Remove engine cowlings i.a.w. AMM section 71-10.	
2	Disconnect the battery and ECU backup batteries for maintenance i.a.w. AMM section 24-31.	
3	Remove the additional alternator i.a.w. AMM section 61-10.	
4	Check the engine mounting arm for excessive wear on the rear attachment point, if the mounting hole diameter greater than 11 mm, replace the engine mounting arm i.a.w. AMM section 71-00.	



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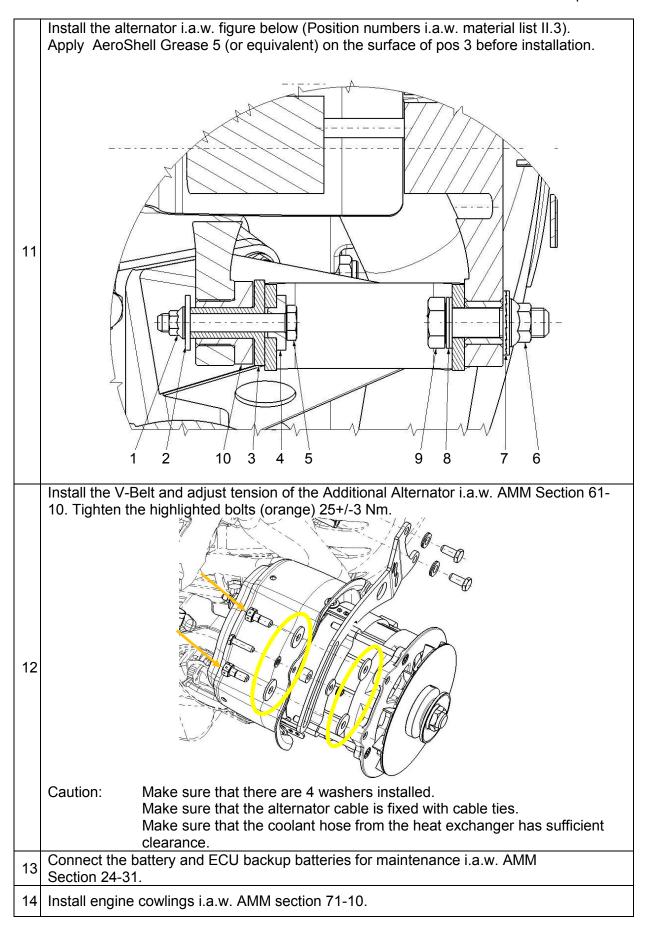














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<sup>15</sup> Minimum 24 hours after bonding of the alternator bushing do an engine run-up and test the propeller and alternator for correct operation.

16 Clean working areas, check for foreign objects.

17 Check all altered, replaced, repaired parts for proper function.

18 Test all systems in working area for function.

19 Make all necessary entries in the airplane logs.