

OPTIONAL SERVICE BULLETIN

OSB 40NG-040/1

supersedes OSB 40NG-040

I TECHNICAL DETAILS

I.1 Category

Optional.

I.2 Airplanes affected

Type: DA 40 NG

Serial numbers: 40.N088 and subsequent

Note This Service Bulletin is only applicable to airplanes with MÄM 40-791 or OSB 40NG-039 and OÄM 40-345 installed.

Note This Service Bulletin is only applicable, if OÄM 40-334 is **NOT** installed.

I.3 Date of effectivity

28-May-2015

I.4 Time of Compliance

At owner's discretion.

I.5 Subject

Installation of the nose landing gear fairings for the lowered nose landing gear (MÄM 40-791/OSB 40NG-039).

ATA-Code: 32-20

I.6 Reason

Diamond has developed a new nose landing gear strut to achieve a lower ground attitude for a better take-off behavior. The installation of the new strut requires the installation of new speed kit fairings for the nose landing gear. This Service Bulletin describes the installation of these fairings on airplanes already in service.

I.7 Concurrent Documents

None.

I.8 Approval

The technical information or instructions contained in this document relate to the Design Change Advisory No. OÄM 40-345/b, 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

1. Remove Cowlings i.a.w. AMM section 71-10, latest effective issue.
2. Install the nose landing gear strut fairing i.a.w. drawing D4X-3200-00-00 page 2.
3. Install Cowlings i.a.w. AMM section 71-10, latest effective issue
4. Clean working area, check for foreign objects.
5. Check all altered, replaced, repaired parts for proper function.
6. Test all systems in working area for function.
7. Make all necessary entries in the airplane logs.

I.10 Mass (Weight) and CG

The change in mass and CG is negligible.

II PLANNING INFORMATION

II.1 Material and Availability

Item No. on drawing D4X-3200-00-00	Quantity	Part No.	Description
7	1	D44-3223-91-00_02	NLG-Wheel Pant Shell LH (Heavy Landing)
8	1	D44-3223-92-00_02	NLG-Wheel Pant Shell RH (Heavy Landing)
17	1	D44-3229-29-00_02	NLG Strut Cover (Heavy Landing)
21	16	DIN 125-5,3-PA	Washer
25	7	DIN 985-M5-A2	Self-Locking-Nut
30	12	ISO 7380-M5x12-A2	Fillister Head Screw
31	12	ISO 7380-M5x16-A2	Fillister Head Screw
24	3 m	02506_2	One Sided, Adhesive EPDM-Foam
36	0,5 m	N000234_	3M UHMW FILM TAPE 5423
38	1	D44-3223-14-00	Mounting Bracket for BLG Fairing
39	2	DIN 933-M5x12	Hexagon Head Screw
40	9	DIN 125A-5,3-A2	Washer
41	2	LN 29910-M5	Rivet Nut
42	4	ISO 15978-2,4x6	Countersunk Rivet

Material is available from Diamond Aircraft Industries.

II.2 Special Tools

None.

II.3 Labour Effort

Approx. 2 hours.

II.4 Credit

None.

II.5 Reference Documents

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

III REMARKS

1. All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
2. All work, 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.

**EXECUTION REPORT TO
SERVICE BULLETIN
OSB 40NG-040/1**

AIRPLANE INFORMATION

Airplane Serial Number _____

Airplane Registration _____

Airplane Operator _____

Hours of operation of airplane _____

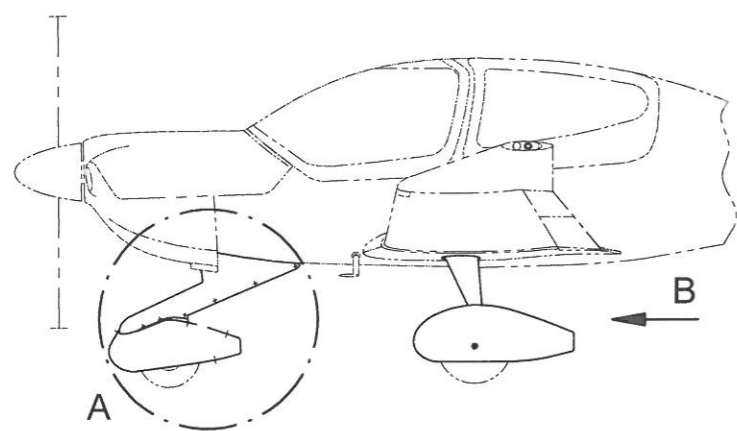
No. of landings _____

Hours of operation-engine _____

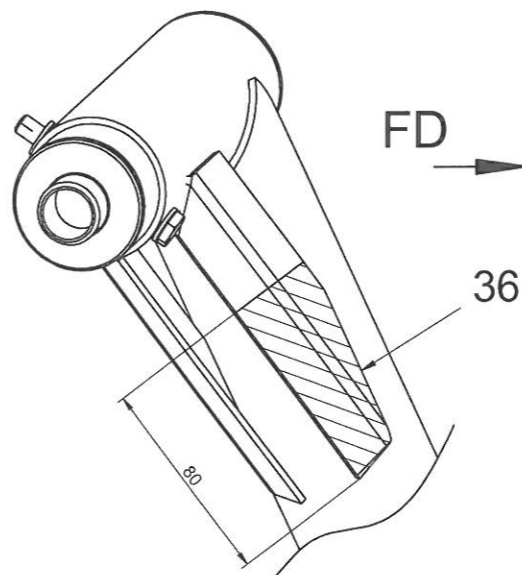
Typical operation of airplane private, club, training, other _____

Date, Name, SignPlease fax the completed form to Fax No. +43-2622-26700-1369 or e-mail to
airworthiness@diamond-air.at

REVISION				
REV	SH	ZONE	DESCRIPTION	DATE
D	02	ALL	OÄM 40-345/b NEW NLG SPEEDKIT DUE TO CHANGED NLG LEG GEOMETRY.	03.03.2015
E	02	ALL	REDLINECORRECTION FLAG NOTE 2.5 AND 2.6 NEW ADDED. IN DETAIL A ITEM NUMBERS 31,21,17 FLAG NOTES 2.5, 2.6 DIMENSIONS 10 ±2mm AND 15 ±5mm NEW ADDED.	27.05.2015
F	02	ALL	OÄM 40-345/c FLAG NOTE 2.1 CORRECTED. FLAG NOTE 2.5 CANCELLED. FLAG NOTES SORTED NEW. IN DETAIL A DIMENSION 15 ±5mm CANCELLED. DIMENSION 10 ±2mm CORRECTED TO 15 ±2mm. ITEM NUMBERS 29,20, 24 CORRECTED TO 31,21,25. BY ITEM NUMBERS 30,21 16x CORRECTED TO 12x. ITEM 34 CORRECTED. ITEM 36 NEW ADDED.	28.05.2015



DETAIL A



36

80

FD

31,21 2.5



36

17

2.5 VIEW A NTS 38 39,,40,41

31,21 2.5

34 2.1

41,42(2x)

31,21,,25 (5x)

30,21 (12x)

7,(8)

15 ±2 2.5

FLAG NOTES

- 2.1 WRAP EPDM-FOAM TWO TIMES ALONG NOSE GEAR LEG PER LOCATION. END OF FOAM SHOULD LOOK DOWN THAT WHEN THE FAIRING IS INSTALLED THE FOAM IS PUSHED DOWN.
- 2.2 BOND ITEM 35 CENTRIC ONTO ITEM 18 USING INTERIOR GLUE.
- 2.3 ONLY FOR USE WITH MÄM 40-631.
- 2.4 FOR FURTHER INFORMATION TO INSTALLATION OF ADDED ITEMS REFER TO P/N D44-3200-00-00X03 (USE LAST REVISION LEVEL).
- 2.5 ONLY FOR OÄM 40-345 WITH MÄM 40-791.

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DIMENSIONS METRIC		IDENTIFICATION MARKINGS		Diamond Aircraft Industries N. A. Otto-Straße 5 A-2700 Wiener Neustadt	
FIRST ANGLE PROJECTION	FORMAT A3	CLASSIFICATION: DP-S-17-00001		NAME / SIGN / DATE	PROJECT DA 40 SERIE
IF NOT OTHERWISE SPECIFIED GEOMETRIC DIMENSIONING AND TOLERANCING ACC. TO ISO 2768-mK	FINISH IN MICROMETER	INTERCHANGEABLE PART: NO		DRAWN: R. Schuster	TITLE LANDING GEAR CONFIGURATIONS OVERVIEW
DIMENSIONS IN mm		THIS DRAWING WAS PRODUCED USING SOFTWARE: SOLID EDGE ST6		28 MAY 15	DWG.ORIG. DAIA
		FILENAME: D4X-3200-00-00f.dft		CHECKED: M. Volck	DWG.NO. D4X-3200-00-00
				RELEASED: M. Scheffl	REV F
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