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RECOMMENDED SERVICE BULLETIN RSB 40NG-011

I TECHNICAL DETAILS

I.1 Category

Recommended.

I.2 Airplanes affected

Type: DA 40 NG

Serial numbers: 40.N001 through 40.N032, 40.N035 frough 40.N04

Airplanes converted to DA 40 N with W SB 40-0 up to Rev. 3.

I.3 Date of effectivity

28-Feb-2012

I.4 Time of Compliance

At owner's discretion

I.5 Subject

Exchange of charged air elbo

ATA-Code: 81-00

I.6 Reason

The charged of elbow hose between the turbo charger and intercooler has been replaced by an alumnum tube to improve the durability of the charged air system. This service bulletin describes the retrofit installation of the new design.

I.7 Co sun it Doc ment

vone.

I.8 A Jval

The telepical information or instructions contained in this document relate to the Design Change Advisory No. MÄM 40-502 and MÄM 40-506, 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-RSB 40NG-011, latest effective issue.

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I.10 Mass (Weight) and CG

The change in mass and CG is negligible.

II PLANNING INFORMATION

II.1 Material and Availability

See WI-RSB 40NG-011, latest effective issue.

II.2 Special Tools

None.

II.3 Labour Effort

Approx. 1 hours.

II.4 <u>Credit</u>

None.

II.5 Reference Documents

Diamond Aircraft 40 NG Airplane Wantenance Vanua 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 method.
- 2. All work, recticular those there not especially described in this Service Bulletin, must be done a accordance with the referenced Maintenance Manual.
- 3. Compression of all work must be recorded in the log book.
- 4. Lese of Subt confect Diamond Aircraft Industries GmbH.

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EXECUTION REPORT TO SERVICE BULLETIN RSB 40NG-011

AIRPLANE DATA	
Airplane Serial Number:	
Airplane Registration:	
Airplane Operator:	
Hours of operation of airplane:	
No. of landings:	
Hours of operation-engine	
Typical operation of airplane: orive	club, traiting, other
Date, Marine, St. h	_

Please fax the ompleted form to Fax No. +43-2622-26700-1369 or e-mail to airworthiness@diamond-air.at



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WORK INSTRUCTION WI-RSB 40NG-011

I GENERAL INFORMATION

I.1 Subject

Replacement of charged air elbow with aluminium bend.

I.2 Reference Documents

Diamond Aircraft DA 40 NG Airplane Maintenance Manual, No. 6.0715, latest effective issue.

Diamond aircraft SI 40NG-007 Installation an tight bing torque of worm drive clamps.

I.3 Remarks

- a) All work must be done by a certified aircraft swice station or a certified aircraft maintenance mechanic.
- b) All work, in particular if not rescribe in this ork instruction, must be done in accordance with the referenced maintenance manual.
- c) For conversion factories between SI units and US/Imperial units refer to AMM Chapter 02.
- d) In case of dest, contact be and Aircraft Industries GmbH.

II DRAWN GS SPECIAL TOOLS & MATERIALS

Nu

II.2 Special bols

None.

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II.3 Material

Quantity	Part Number	Description
1	D44-8122-20-00	Turbo Connector Assy
1	D44-8126-00-08	Charged Air Hose
4	TORRO_60-80_12_W1	Hose clamps
1	DIN 933-M8x16-YZP	Hexagon head crew
1	DIN 3771 46.2x3.55 MVQ 70	O-Ting

Material including drawing is available from Diamond Aircraft ustries

III INSTRUCTIONS

1	Make sure AMM-TR-MÄM 40-502 & AMM-TR-M 40-506 has been incorporated into the AMM.
2	Remove cowlings (refer to AMM ection 71-10)
	WARNING DO NOT STAND WITHIN THE FUNGER AREA OF THE PROPELLER. IF THE ENGINE TARK THE PROPELLER CAN CAUSE DEATH OR INJURY TO PE SONS.
	WARNING MAKE SURE THE T THE ENGINE IS SAFE BEFORE YOU WORK ON THE ENGINE SOUTH LS. IF THE PROPELLER TURNS IT CAN CAUSE AJURY TO FLOOR.
3	Remove charged air blow.
4	Remove Turbo dapter Do-8126-70-01 from turbo charger.
5	Funove P-clamp which holds the charged air tube on the air filter box.

Figure 1: Attachment of charged air tube



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6	Install screw DIN 933-M8x16-YZP with previously installed washer on air filter box, where the P-Clamp was attached before.		
7	Install charged air hose D44-8126-00-08 on charged air tube (refer to SI 40NG-007).		
	CAUTION DO NOT TIGHTEN THE WORM DRIVE CLAMPS WITH THE ENGINE BEING HOT. THIS CAN DAMAGE THE SILICONE HOSES AND MAY RESULT IN LOSS OF ENGINE POWER.		
8	Install Turbo Connector D44-8122-20-00 with O-ring (refer to SI 40NG-007).		
	Make sure the charge air tube must have at least 5 mm clearance trane fireward positive clearance to the coolant tube aft of the engine (refer to figure 2).		
	FIREWALL		
	RUBBER PAD 5		
	CHARGE AIR TUBE		
	COOLAND RSGU CLAN		
	DET B1-1 S. INSTALLA IN SCHEMATIC		
	Figure 2: Oranged air tube		
	CAUTION DO TO TIGHTLY THE WORM DRIVE CLAMPS WITH THE ENGINE PHING HOLD THIS CAN DAMAGE THE SILICONE HOSES AND MAY RESULT IN LOS F ENGINE POWER.		
9	Clean worng are , check for foreign objects.		
10	Check all altered, repaired parts for proper function.		
11	est all stems in racking area for function.		
12	Make the control of the airplane logs.		