
MANDATORY SERVICE BULLETIN NO. MSB 40NG-070 REV. 0

I TECHNICAL DETAILS

I.1 Category

Mandatory.

I.2 Airplanes Affected

Type: DA 40 NG

S/N: All

I.3 Date of Effectivity

01 February 2021

I.4 Time of Compliance

At next scheduled maintenance.

I.5 Subject

Inspection of the safety ropes in the engine installation.

I.6 Reason

On some aircraft, the safety ropes in the engine installation have been observed to be chaffing against the engine mount or the oil pan, causing damage to these components. This MSB provides instructions for inspecting the engine installation for damage due to the safety ropes, and provides instructions to prevent the chaffing of the safety ropes against other components.

I.7 Concurrent Documents

None.

I.8 Approval

The technical information and instructions contained in this document are approved as part of the type design.

I.9 Accomplishment/Instructions

Comply with WI-MSB 40NG-070, latest effective issue.

I.10 Mass (Weight) and CG

The change in mass and CG is negligible.

II PLANNING INFORMATION

II.1 Material and Availability

See WI-MSB 40NG-070, latest effective issue.

II.2 Special Tools

None.

II.3 Labour Effort

Approximately 30 minutes will be required to accomplish this service bulletin.

II.4 Credit

None.

II.5 Reference Documents

DA 40 NG series 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, in particular 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 logbook.
4. In case of doubt, contact Diamond Aircraft Industries Inc.

To obtain satisfactory results, procedures specified in this service bulletin must be accomplished in accordance with accepted methods and current government regulations. Diamond Aircraft cannot be responsible for the quality of work performed in accomplishing the requirements of this service bulletin. Diamond Aircraft reserves the right to void continued warranty coverage in the area affected by this service bulletin if it is not incorporated.

If you no longer own the aircraft to which this service bulletin applies, please forward it to the current owner, and send the name of the current owner to Diamond Aircraft at the address below.

Diamond Aircraft Industries Inc.
1560 Crumlin Sideroad, London, Ontario, Canada
N5V 1S2

Customer Support:
Phone: (519) 457-4041, Fax: (519) 457-4045
E-mail: support-canada@diamondaircraft.com

Technical Publications:
E-mail: Techpubs@diamondaircraft.com



**EXECUTION REPORT TO
SERVICE BULLETIN
MSB 40NG-070 REV. 0**

AIRPLANE INFORMATION

Airplane Serial Number _____

Airplane Registration _____

Airplane Operator _____

Hours of Operation of Airplane _____

No. of Landings _____

Hours of Operation of Engine _____

Typical Operation of Airplane _____
(private, club, training, other)

Date, Name, Signature

Please e-mail the completed form to Techpubs@diamondaircraft.com.

WORK INSTRUCTION WI-MSB 40NG-070 REV. 0

I GENERAL INFORMATION

I.1 Subject

Inspection of the safety ropes in the engine installation.

I.2 Reference Documents

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

I.3 Remarks

1. All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
2. All work, in particular which is not especially described in this work instruction, must be done in accordance with the referenced maintenance manual.
3. In case of doubt, contact Diamond Aircraft Industries Inc.

II DRAWINGS, SPECIAL TOOLS & MATERIALS

II.1 Drawings

None.

II.2 Special Tools

None.

II.3 Material

Item	Part No.	Qty	Description
1	High temperature cable tie	3	Zip tie
2	Panduit P/N CR2-M or equivalent	1	Spacer
3	TE Connectivity P/N 608036-1 or equivalent	A/R	Silicone tape

III INSTRUCTIONS

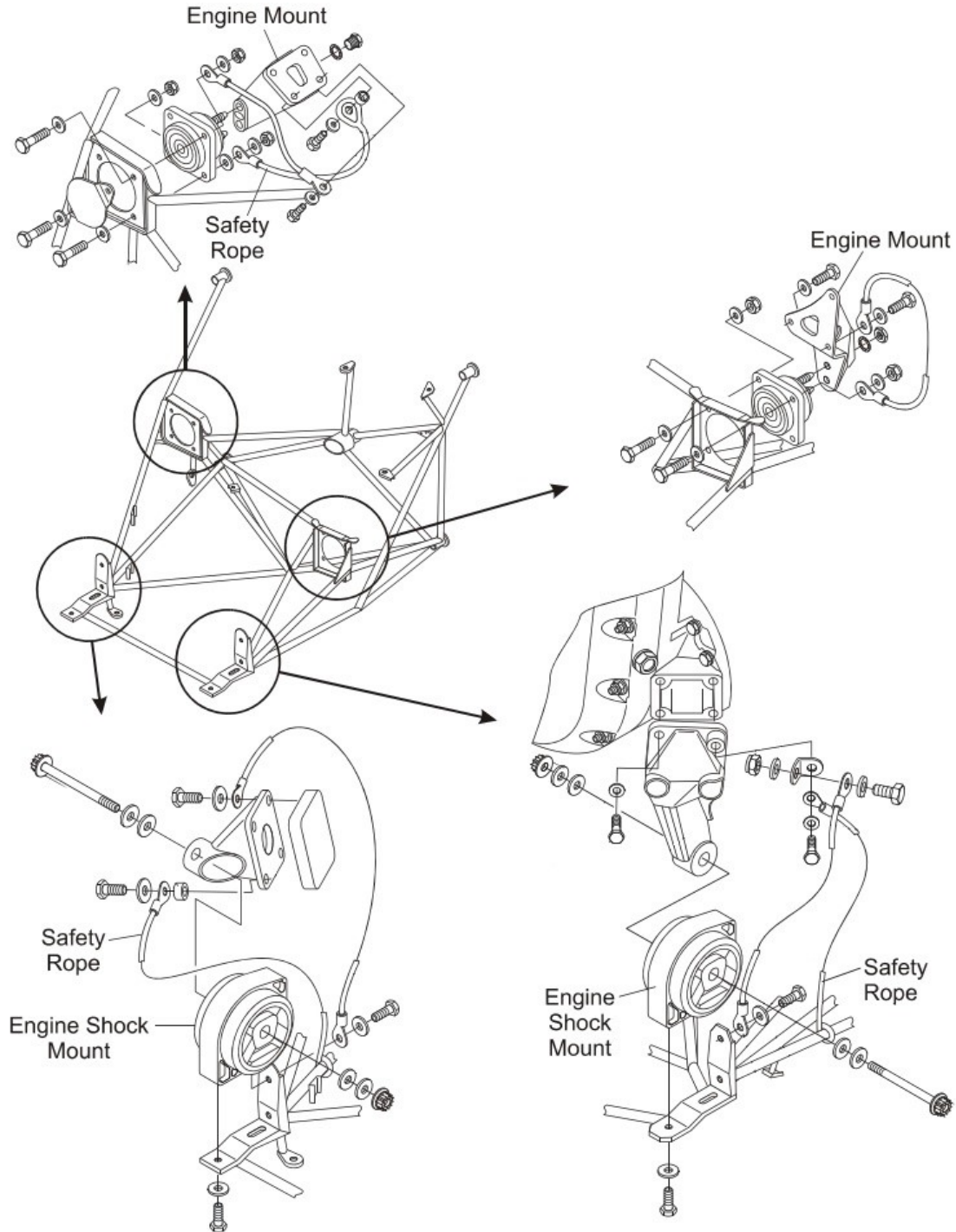


Figure 1. Locations of the safety ropes.

1. Ensure the engine is safe.
2. Remove the engine cowlings.
3. Inspect the safety rope and surrounding area at the front left of the engine (see Figure 2) for signs of chaffing. Pay special attention to the engine mount and the oil pan.

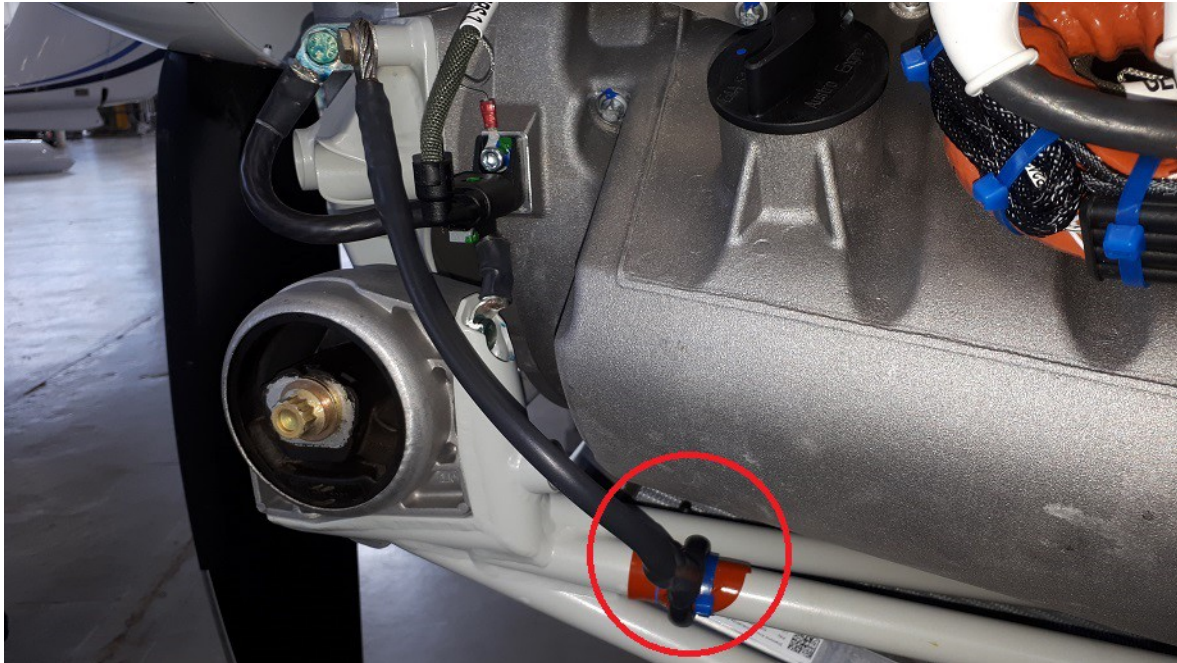


Figure 2. Safety rope at the front left of the engine. Note the silicone tape and zip tie used to secure the safety rope to the engine mount.

4. If the safety rope is not secured with silicone tape and a zip tie as shown in Figure 2, use silicone tape and a zip tie to secure the safety rope.
 - A. Ensure the safety rope is as far forward as possible, and does not interfere with other components in the engine installation or the cowling when installed.
 - B. Ensure the silicone tape completely wraps twice around the tube of the engine mount.

5. Inspect the safety rope and surrounding area at the aft right of the engine (see Figure 3) for signs of chaffing. Pay special attention to the engine mount.



Figure 3. Safety rope at aft right of the engine. Note the silicone tape, spacer, and two zip ties used to secure the safety rope.

6. If the safety rope is not secured with silicone tape and a zip ties as shown in Figure 3, use silicone tape, two zip ties, and a spacer to secure the safety rope.
 - A. Ensure the safety rope does not interfere with other components in the engine installation.
 - B. Ensure the silicone tape completely wraps twice around the tube of the engine mount.
7. Install the engine cowlings.
8. Report any signs of chaffing to Diamond Aircraft Industries.
9. Make a logbook entry indicating that this service bulletin has been performed.
10. Submit the execution report to Techpubs@diamondaircraft.com.

Diamond Aircraft Industries
WORK INSTRUCTION
Model DA 40 NG



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