

**MANDATORY SERVICE BULLETIN NO. MSB 40NG-080 REV. 2**  
**SUPERSEDES MSB 40NG-080 REV. 1**

**I TECHNICAL DETAILS**

**I.1 Category**

Mandatory.

**I.2 Airplanes Affected**

Model: DA 40 NG

S/N: All

**I.3 Date of Effectivity**

28 September 2023.

**I.4 Time of Compliance**

At next 100 hr or annual inspection.

**I.5 Subject**

Inspection of starter wiring connection.

ATA-Code: 24-00

**I.6 Reason**

It was observed in some cases that the starter motors were wired incorrectly. The result of the miss-wire do not affect the normal operation of the starting CAS warning message reporting system. This wiring change will only correct for proper recognition of an uncommanded start condition. This Service Bulletin describes the inspection of the starter wiring and correction if required.

**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-080, 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-080, latest effective issue.

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

None.

### **II.3 Labour Effort**

Approximately 0.5 hour will be required to accomplish this service bulletin.

*This estimate is for direct labour performed by a technician, and it does not include setup, planning, familiarization, cure time, part fabrication, or tool acquisition.*

### **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.

Diamond Aircraft Industries  
**MANDATORY SERVICE BULLETIN**  
Model DA 40 NG

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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](mailto:support-canada@diamondaircraft.com)

Technical Publications:  
E-mail: [Techpubs@diamondaircraft.com](mailto:Techpubs@diamondaircraft.com)



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**EXECUTION REPORT TO  
SERVICE BULLETIN  
MSB 40NG-080 REV. 2**

**AIRPLANE DATA**

Airplane serial number \_\_\_\_\_

Airplane registration \_\_\_\_\_

Airplane operator \_\_\_\_\_

Hours of operation of airplane (TSN) \_\_\_\_\_

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

**MAINTENANCE DATA**

Date of maintenance \_\_\_\_\_

Maintenance carried out by \_\_\_\_\_

During scheduled inspection? Yes  No

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Name \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

Please e-mail the completed form to [Techpubs@diamondaircraft.com](mailto:Techpubs@diamondaircraft.com).

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**WORK INSTRUCTION WI-MSB 40NG-080 REV. 2**  
**SUPERSEDES WI-MSB 40NG-080 REV. 1**

**I GENERAL INFORMATION**

**I.1 Subject**

Inspection of starter wiring connection.

**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. It is recommended to print this Work Instruction in color.
4. 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**

None.

### **III INSTRUCTIONS**

**WARNING: INCORRECT MAINTENANCE WORK ON THE ELECTRICAL SYSTEM OF THE AIRCRAFT AND DISRESPECT OF COMMONLY PREASSUMED SKILLS OF CERTIFIED MAINTENANCE PERSONNEL CAN CAUSE SEVERE DAMAGE OF COMPONENTS OR EVEN FIRE.**

**WARNING: MAKE SURE THAT THE ENGINE IS SAFE BEFORE YOU DO WORK ON THE STARTER SYSTEM. IF THE ENGINE STARTS, THE PROPELLER TURNS AND CAN CAUSE INJURY OR DEATH.**

1. Disconnect the main battery for maintenance. Refer to AMM Section 24-31.
2. Remove the top cowling. Refer to AMM Section 71-10.
3. Inspect the starter wiring for correct connection. Refer to Figure 1.
  - The terminal 31002B2 must be connected along with the braided jumper.

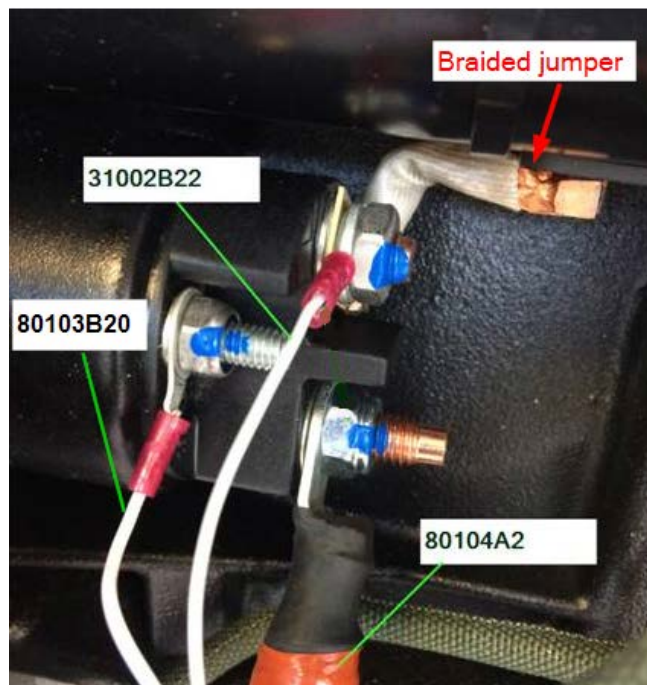


Figure 1 - Correct starter wiring connection.

4. If the wire 31002B22 is connected to the same attachment as the braided jumper as shown in Figure 1, that means that the connection is correct and you can proceed to step 8.
5. If the wire 31002B22 is not connected to the same attachment as the braided jumper, the connection is incorrect and you must proceed to the next step.

**Diamond Aircraft Industries**  
**WORK INSTRUCTION**  
**Model DA 40 NG**



6. Remove wire 31002B22 from the incorrect location, and reinstall it in the correct location. Refer to Figure 1.
7. Clean the working areas and check for foreign objects.
8. Connect the main battery after maintenance. Refer to AMM Section 24-31.
9. Check all altered, replaced, repaired parts for proper function.
10. Install the top cowling. Refer to AMM Section 71-10.
11. Do an engine ground run-up. Refer to AMM Section 71-00.
12. Make all necessary entries into the logbooks.
13. Submit the execution report to [Techpubs@diamondaircraft.com](mailto:Techpubs@diamondaircraft.com).

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