

## **RECOMMENDED SERVICE BULLETIN NO. DA20-78-04A REV. 3** **SUPERSEDES DA20-78-04A REV. 2**

### **I TECHNICAL DETAILS**

#### **I.1 Category**

Recommended.

#### **I.2 Airplanes Affected**

Type: DA 20-A1

Serial Numbers: All DA20-A1 aircraft with Rotax 912.

#### **I.3 Date of Effectivity**

03 August 2023.

#### **I.4 Time of Compliance**

Recommended prior to next flight and every 50 hours thereafter.

#### **I.5 Subject**

ATA code: 78-00.

#### **I.6 Reason**

Revision 1 of this service bulletin revised the aircraft effectivity, the manual Doc. no. and removed the ALERT status.

Revision 2 of this service bulletin prohibits the installation of exhaust wrap. Cracking of exhaust system components may result in hazardous exhaust leaks.

Depending on the location and type of failure, such exhaust leaks can result in fire, complete or partial power loss, damage to and subsequent failure of other systems (e.g. electrical, cooling) or carbon monoxide poisoning.

Revision 3 of this service bulletin revised the serial numbers information on subsection I.2 and updated/added steps on subsection I.9.

This SB addresses a repetitive inspection of the exhaust system. The repetitive inspection will be incorporated into the maintenance manual.

#### **I.7 Concurrent Documents**

None.

#### **I.8 Approval**

Engineering data referenced or contained in this service bulletin is approved as part of the type design.

## **I.9 Accomplishments/Instructions**

1. Remove the engine cowlings. Refer to AMM Chapter 71-10.
2. Remove the heat insulating material from the forward exhaust header pipes (if installed).
3. Inspect exhaust system for general condition and specifically signs of exhaust leakage which could indicate exhaust system cracks.
4. Clean the exhaust headers from the cylinders to beyond where the exhaust headers are bent and inspect carefully for signs of cracking.
5. Clean the exhaust can and exhaust tail pipe in the area where they join and inspect these areas for signs of cracking.
6. Replace any defective components.
7. If components are removed or loosened during inspection do not reuse self locking hardware.
8. Clean the working areas, and check for foreign objects.
9. Install the engine cowlings. Refer to AMM Chapter 71-10.
10. Check all altered, replaced, repaired parts for proper function.
11. Make all necessary entries in the logbooks.
12. Submit the execution report to [Techpubs@diamondaircraft.com](mailto:Techpubs@diamondaircraft.com).

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

The change in mass and C.G. is negligible.

## **I.11 Electrical Load Data**

No change.

## **II PLANNING INFORMATION**

### **II.1 Material and Availability**

None.

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

None.

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

Approximately 1.0 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 20-A1 Aircraft Maintenance Manual Doc. No. DA 201-A1, latest effective issue.

FAA AC 43.13-1A

Rotax Service Letter SL-916 i-008 / SL-915 i-010

SL-912 i-016 / SL-912 i-025

SL-914-023

## **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  
DA20-78-04A REV. 3**

**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 ☐

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

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