SERVICE BULLETIN

Service Bulletin No.: DA20-78-04A, Rev. 2 **Date Issued:** 14 October 2021

Title: Exhaust System, Fatigue

1. ATA Code: 7800

2. Effectivity: All DA20-A1 aircraft with Rotax 912 A3 or Rotax 912 F3 engines.

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

4. Compliance: Recommended prior to next flight and every 50 hrs. thereafter.

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

6. Labour: Approximately 1.0 hours 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.

7. Material: None.

8. Special Tools: None.

9. References: DA20-A1 Aircraft Maintenance Manual, Document Number DA201.
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

10. Accomplishment Instructions:

NOTE: Refer to FAA AC 43.13-1A for general exhaust system inspection procedures and criteria. Some disassembly may be required to gain proper access to the areas being inspected. Refer to the DA20 Maintenance Manual Doc #DA 201.

10.1 Remove engine cowlings.

10. Accomplishment Instructions: (Continued)

10.2 Remove heat insulating material from forward exhaust header pipes (if installed).

10.3 Inspect exhaust system for general condition and specifically signs of exhaust leakage which could indicate exhaust system cracks.

10.4 Clean the exhaust headers from the cylinders to beyond where the exhaust headers are bent and inspect carefully for signs of cracking.

10.5 Clean the exhaust can and exhaust tail pipe in the area where they join and inspect these areas for signs of cracking.

10.6 Replace any defective components.

10.7 If components are removed or loosened during inspection do not reuse self locking hardware.

10.8 STEP REMOVED.

10.9 Install cowlings and make a log book entry stating the time which this inspection was completed.

11. Weight and Balance: N/A

12. Electrical Load Data: N/A

13. Availability: No parts or labor credit is available for this ASB at this time. Contact Diamond Aircraft customer support if you require additional information.

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