

SERVICE BULLETIN



Service Bulletin No.: DA20-78-04A, Rev. 1

Date Issued: 26 January 2012

Title: Exhaust System, Fatigue

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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 revises the aircraft effectivity, the manual Doc. no. and removes the ALERT status.

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:	Part Number	Description	Qty
	Exhaust Wrap	09-41600	3 ft.

8. Special Tools: None.

9. References: DA20-A1 Aircraft Maintenance Manual, Document Number DA201.
FAA AC 43.13-1A

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.

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10. Accomplishment Instructions: (Continued)

- 10.2 Remove heat insulating material from forward exhaust header pipes.
- 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 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 Install new exhaust wrap on the exhaust headers.
- 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.

To obtain satisfactory results, procedures specified in this service bulletin must be accomplished in accordance with accepted methods and current government regulations. Diamond Aircraft Industries Inc. 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 Industries Inc. at the address below.

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