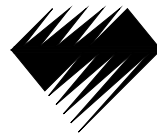


SERVICE BULLETIN



Diamond
AIRCRAFT

Service Bulletin No.: DA20-78-02 Rev. 0

Date Issued: April 18, 1997

Title: Exhaust Header, Type 3 & 4

Page: 1 of 2

1. ATA Code: 7810

PLANNING INFORMATION:

2. Effectivity: DA20-A1 aircraft S/N 10001 up to and including S/N 10240.

3. General: This service bulletin addresses the replacement of Type 1 and Type 2 exhaust headers with Type 3 and Type 4 exhaust headers respectively. Due to a new oil filter design on the Rotax 912 A3 and 912 F3 engines the current exhaust routing makes it difficult to carry out routine oil filter changes. The new type exhaust header allows for adequate clearance when replacing the new type oil filter.

4. Compliance: Optional.

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

6. Labor: 0.5 man hours

7. Material: Carry out the inspection in 10.2 and 10.3 to determine the material kit required for the aircraft

Description	Part Number	Qty
Exhaust header, Type 3	20-7800-02-01	1
Exhaust Wrap	09-41600	3 ft.
Exhaust Spring	938-795	2
Lock Nut M8	942-035	2

The materials kit for the type 3 exhaust header may be ordered as DA20-78-02AMK0

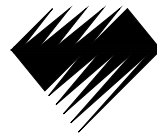
Description	Part Number	Qty
Exhaust header, Type 4	20-7800-02-02	1
Exhaust Wrap	09-41600	3 ft.
Exhaust Spring	938-795	2
Lock Nut M8	942-035	2

The materials kit for the type 4 exhaust header may be ordered as DA20-78-02BMK0

NOTE: Both type 3 and type 4 pipes are interchangeable and may be substituted by Diamond Aircraft based on availability.

8. Special Tools: None

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Page: 2 of 2

9. References: DA20 Maintenance Manual Doc. # DA201. ROTAX 912F Maintenance Manual.

10. Accomplishment Instructions:

- 10.1 Carry out an inspection to determine the part number of the material kit required for the aircraft.
- 10.2 If a Type 1 exhaust header is currently installed it is replaced by a type 3 exhaust header. A type 1 exhaust header is a single piece pipe connected to the front left hand cylinder at one end and to the muffler at the other end. Order materials kit P/N DA20-78-02AMK0.
- 10.3 If a Type 2 exhaust header is currently installed it is replaced by a type 4 exhaust header. A type 2 exhaust header is a two piece pipe connected to the front left hand cylinder at one end and to the muffler at the other end. The two pipes are connected together in the middle by a slip joint. Order materials kit P/N DA20-78-02BMK0.
- 10.4 Refer to the ROTAX 912 Maintenance Manual for torque values. Reinstall the exhaust header using the new locknuts and the new springs. Apply the heat wrap to the new pipe.
- 10.5 Ensure that there is at least 0.25" (6.3mm) clearance between the exhaust header and the engine oil filter.
- 10.6 Ensure that the exhaust wrap clamp on the exhaust header is positioned as low as possible close to the heat shield, with the clamp screw away from the oil filter.

11. Weight and Balance: Not applicable.

12. Electrical Load Data: Not applicable.

13. Credit: A full parts and labor credit will be issued upon receipt of a completed warranty claim form and the return of the affected part(s) when received within 90 days from the issue date of this service bulletin.

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.

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