



Service Bulletin No.: DA20-73-01, Rev. 0

Date Issued: April 18, 1997

Title: Rotax 912 A3 To Rotax 912 F3 Airframe Conversion

Page: 1 of 3

1. ATA Code: 7310

PLANNING INFORMATION

2. Effectivity: DA20 Katana Aircraft S/N 10002 up to and including 10092.

3. General: When an aircraft originally equipped with a Rotax 912 A3 engine is fitted with a Rotax 912 F3 engine an airframe conversion is required. The 912 A3 engine is removed along with the fuel distribution and electrical components. The installation of a 912 F3 QEC (Quick Engine Change) includes the necessary modifications to the fuel distribution and electrical system. Once the 912 F3 engine conversion has been completed the 912 A3 engine can not be reinstalled.

4. Compliance: Compliance with this service bulletin is required when installing a 912F3 engine to an 912A3 equipped airframe.

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

6. Labor: 10 man hours.

7. Material:	Description	Qty	Part Number
	Rotax 912F3 Quick Engine Change	1	912F3QEC

For a detailed listing of the components of the 912F3QEC list, contact Diamond Aircraft Customer Support

The 912F3QEC includes all parts required for the engine replacement except:

- Alternator, Bracket, Belt and Propeller Flange Pulley.
- Air Filter and Filter Shroud.
- Exhaust system.
- Propeller.
- Propeller governor.
- Cabin Heat Air Intake Duct. (Radiator Mounted)



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8. Special Tools: None.

9. References: DA20 Katana Maintenance Manual Doc. No. DA201.
DA20 Flight Manual Doc. No. DA202.

10. Accomplishment Instructions:

- 10.1 Close 'Fuel Shutoff Valve'.
- 10.2 Remove cowlings.
- 10.3 Disconnect battery cables, negative terminal first. Remove battery.
- 10.4 Remove the four mounting screws securing the fuel distribution box and fuel line clamps to the firewall. Discard the clamps. Reinstall the mounting hardware to seal the firewall.
- 10.5 Complete the engine change in accordance with the DA20 Katana Maintenance Manual.
- 10.6 Package the removed engine, mount and fuel distribution components in the shipping container supplied with the QEC. Return the parts to Diamond Aircraft in accordance with Part 13 of this service bulletin.
- 10.7 Amend the aircraft Weight and Balance record and Equipment List in the flight manual.

11. Weight and Balance: The change in aircraft C of G is negligible. The overall weight decreases by 0.9 Lbs.

12. Electrical Load Data: None.

13. Credit Information: The operator will be billed the exchange price plus core charge. Payment of the exchange price is in accordance with our standard credit terms. The operator has 45 Days to return the core to Diamond Aircraft before the core charge becomes due and payable in full.



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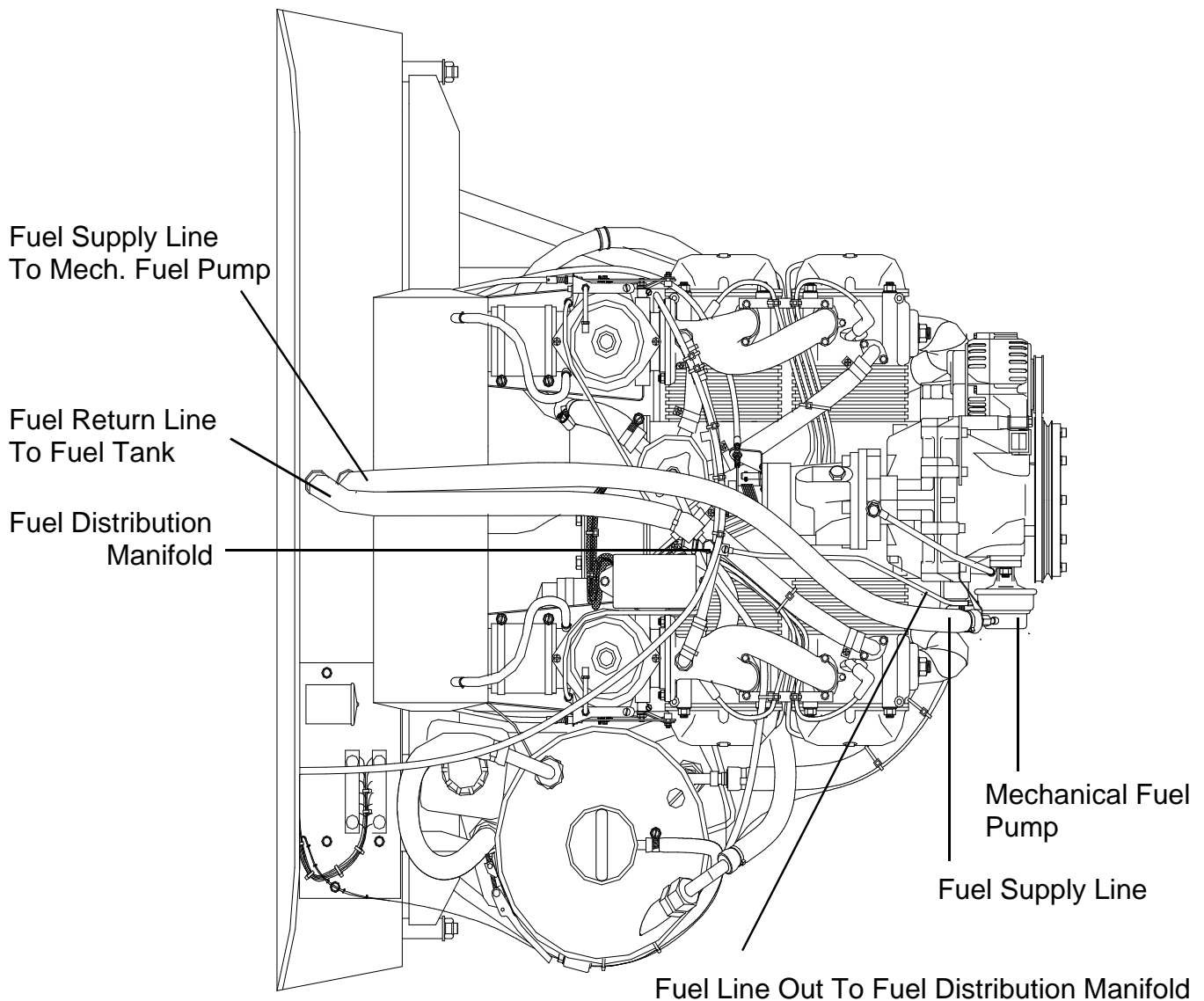


Figure 1.

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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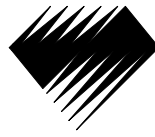
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The 912F3QEC includes all parts required for the engine replacement except:

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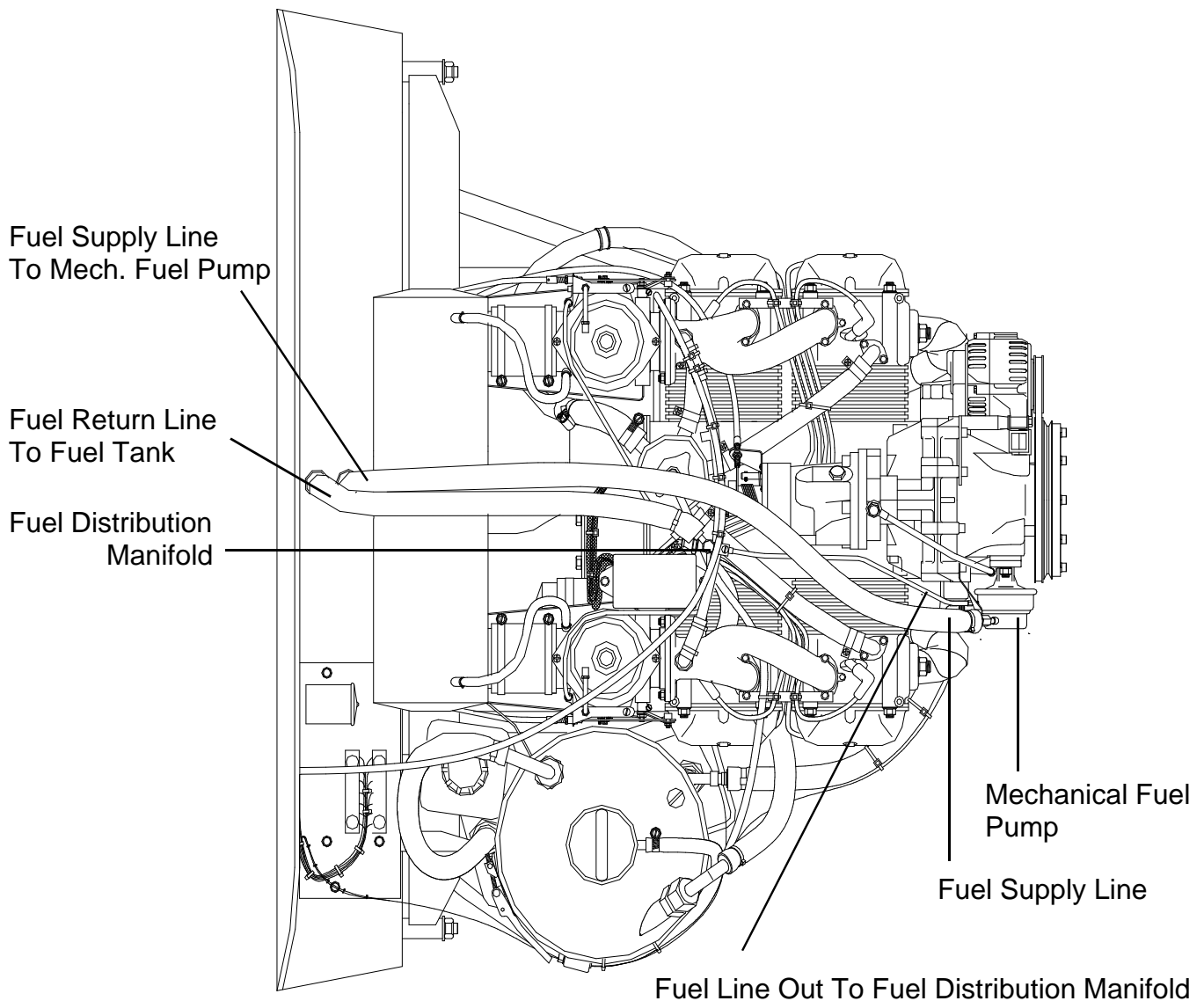


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