

SERVICE BULLETIN



Service Bulletin No.: DA20-79-01, Rev. 1

Date Issued: November 28, 1997

Title: Remote Mounting of Oil Pressure Transducer

Page: 1 of 3

1. **ATA Code:** 7930
2. **Effectivity:** All DA 20 Katana, aircraft serial number 10002 to 10144.
3. **General:** This Bulletin describes the optional remote mounting of the engine oil pressure transducer which, when installed in its original location on the engine, is subject to vibration related premature failure.
4. **Compliance:** Diamond Aircraft Industries recommends compliance with this service bulletin if repetitive premature failures of the oil pressure transducer have been experienced.
5. **Approval:** Engineering data referenced or contained in this bulletin is Transport Canada approved.
6. **Labour:** Approximately 1 man hour will be required to accomplish this service bulletin.
7. **Kit Cost:** The kit detailed in this service bulletin is available from Diamond Aircraft Industries with the terms and conditions described below. Kits may be obtained by submitting a purchase order, specifying serial number of aircraft to Diamond Aircraft Customer Support department, Warranty Administration
Fax: 519-457 4045.
Kits ordered prior to 60 days from issue date of this service bulletin are available at no-charge. Kits ordered after 60 days are subject to charge.
8. **Materials:** Material Kit DA20-79-01MK

<u>Description</u>	<u>Quantity</u>	<u>P/N</u>
Machine Screw , Pan Head	1	MS51958-63
Washer, Flat	1	AN960-10
Nut, Self-locking	1	MS14222-3
Oil Pressure Sending Unit Hose Assembly	1	FC3401B01B01B029
Oil Pressure Sending Unit Support Bracket	1	20-7910-02-01
Fitting, Bulkhead, NPT	1	A6208-2-4
45° Elbow Fitting	1	A1204-2-4
Nut, Bulkhead	1	A7003-4
Washer, Lock, Tooth	1	MS35335-36
Washer, Flat	1	NAS1149F0732P
Terminal, Ring	1	31886
Tie-wraps	10	MS3367-5-9
9. **Special Tools:** 3/16" drill
crimping tool for wire terminal

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Date Issued: November 28, 1997

Title: Remote Mounting of Oil Pressure Transducer

Page: 2 of 3

10. References: DA 20 Katana Maintenance Manual

11. Accomplishment Instructions

- 11.1 Remove both upper and lower engine cowlings in accordance with Chapter 71-10 of the Maintenance Manual.
- 11.2 Install NPT bulkhead fitting (ref. A6208-2-4, supplied) on the oil pressure sensor support bracket (ref. PN. 20-7910-02-01, supplied). Use flat washer (ref. NAS1149, supplied) on the bracket side, lock washer (ref. MS35338-47, supplied) and bulkhead nut (ref. A7003-4, supplied) as shown on Detail A of Figure 1.
NOTE: Using Loctite under the bulkhead nut instead of lock washer is acceptable.
- 11.3 Disconnect engine block ground wire. Disconnect electrical wire from the oil pressure sending unit (ref. wire #79304A20). Cut the wire to new length and re-route it as required. Install new terminal ring (ref. 31886, supplied). Discard remaining old wire and ring terminal. Re-connect engine block ground wire.
- 11.4 Remove oil pressure sending unit from its original location on the engine and install it on the support bracket. Use threadlocker Loctite 222 or Sealube. Apply to male threads, keep holes clear.
- 11.5 Drill 3/16" hole in the electrical shelf in engine compartment. Locate the hole as shown on Detail A of Figure 1. Hole in electrical shelf and hole in the bracket should align when bracket is sat against the forward edge of the shelf, under the shelf. Deburr edges.
- 11.6 Install support bracket with supplied hardware (ref. machine screw MS51958-63, self-locking nut MS14222-3, and washer AN960-10) as shown on Detail A of Fig 1. Bracket installed from the bottom. Re-connect electrical wire to relocated oil pressure sending unit (ref. wire #79304A20).
- 11.7 Install 45° elbow fitting (supplied) in original location of oil pressure sending unit on the engine as shown on Detail B of Figure 1. Use Loctite 222 or Sealube. Apply to male threads, keep holes clear.
- 11.8 Install oil pressure sending unit hose assembly (ref. FC3401B01B01B029, supplied) between engine side elbow fitting and oil pressure sending unit bulkhead fitting as shown on Figure 1. Install engine side first. Use threadlocker Loctite 222 or Sealube. Apply to male threads, keep holes clear. Tie-wrap hose assembly with the other hoses and lines to the oil reservoir/oil hose.
- 11.9 Install both upper and lower engine cowlings.

11. Weight and Balance: N/A

12. Electrical Load Data: N/A

13. Credit: A full parts credit will be issued upon receipt of a completed warranty application form.

To obtain satisfactory results, procedures specified in this service information letter 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 information letter.

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Page: 3 of 3

Figure 1. Remote Oil Pressure Transducer Installation (Optional).

