

# SERVICE BULLETIN



Service Bulletin No.: DA20-79-02, Rev. 1

Date Issued: September 18, 1996

Title: Winterization Kit

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1. ATA Code: 7910

## PLANNING INFORMATION

2. Effectivity: All DA20 Katana, serial number 10002 and subsequent.

3. General: This Bulletin describes the optional installation of an oil cooler baffle for low temperature operation. Engine operation at consistently low oil temperatures may result in water condensate accumulation in the oil system, which in turn may result in premature wear of some engine components. The oil cooler baffle is designed to maintain elevated oil temperature to ensure that water condensate is vapourized. It is recommended that the baffle be installed below 14°F (-10°C) OAT. The baffle must be removed above 32°F (0°C) OAT.

4. Compliance: Optional

5. Approval: Engineering data referenced or contained in this bulletin is Transport Canada approved.

6. Labor: Oil cooler baffle and fastener installation - total: one person 0.5 hour

7. Material:	<u>Description</u>	<u>P/N</u>
	Oil Cooler Baffle	20-7910-03-01
	Placard	20-7910-03-02
	Camlock 1/4-turn Wing Stud	4002-5W
	Camlock Fixed Receptacle	214-16
	Camlock Flush Mounting Grommet	4002-0
	Camlock Retaining Ring	R4G
	Rivet	CCR244SS4-04

Above material may be ordered as kit P/N DA20-79-02MK.

8. Special Tools: riveter  
1/8" (3mm) drill  
5/8" (15mm) drill  
Camlock Pliers P/N 4P3 or equivalent

9. References: DA 20 Katana Maintenance Manual

**10. Accomplishment Instructions:**

- 10.1 Place oil cooler baffle (ref. pn. 20-7910-03-01, supplied) in required position as shown in figure 1. Mark fastener pilot hole using oil cooler baffle as template. If required, grind flat upper lip of the oil cooler inlet so the baffle sits flat against the upper surface of the oil cooler air intake.
- 10.2 Remove lower engine cowling in accordance with chapter 71-10 of the Aircraft Maintenance Manual and drill 1/8" pilot hole through the cowling .
- 10.3 Enlarge pilot hole to 5/8" (15mm) diameter. Orient receptacle so the rivet holes are in line with oncoming air flow (ref. view A, figure 1) and use it as template for drilling two 1/8" rivet holes in the engine cowling.
- 10.4 Install receptacle 214-16 (supplied) with two rivets (ref. CCR244SS4-04, supplied) to the lower engine cowling as shown on figure 1.
- 10.5 Apply caution placard (supplied) to the engine lower cowling at location shown in figure 1.
- 10.6 Insert 4002-0 grommet (supplied) into the mounting hole in the oil cooler baffle and attach R4G retaining ring (supplied).
- 10.7 Install lower engine cowling in accordance with chapter 71-10 of the Aircraft Maintenance Manual.
- 10.8 Install oil cooler baffle with 1/4 turn fixed wing fastener (ref. 4002-5W, supplied).

**11. Weight and Balance:** N/A**12. Electrical Load Data:** N/A**13. Credit:** None

*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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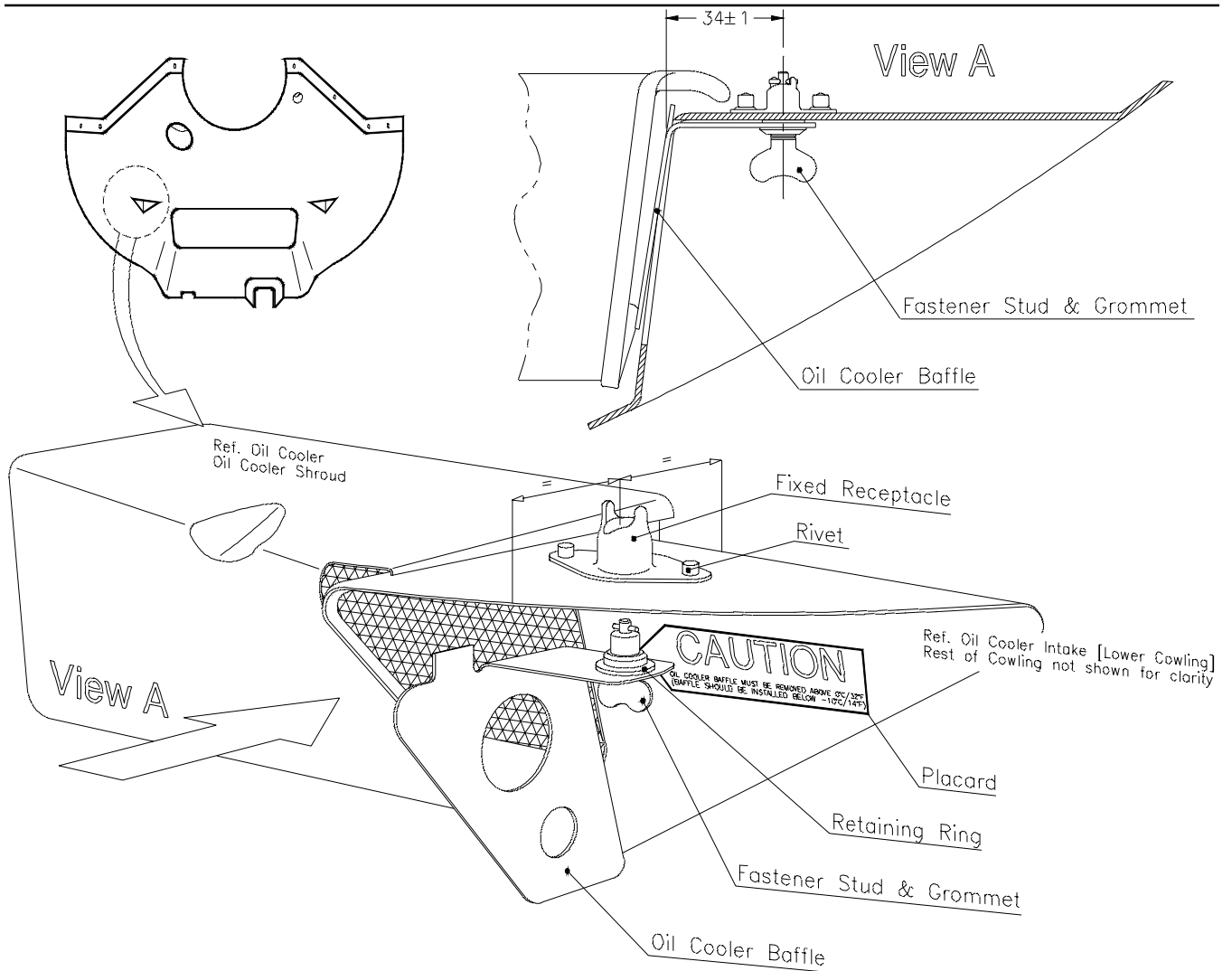


Figure 1. Oil Cooler Baffle Installation