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**SERVICE  
LETTER**

**Service Letter No. L 102  
October 22, 2009**

**1. TO:**

Sault College Aviation Technology.

**2. APPLICABLE TO:**

Z242L Aircraft, S/N 0679, 0681, 0682, 0683, 0684, 0685, 0742, 0745 and 0746.

**3. SUBJECT:**

Because above stated Z242L aircraft are operated in extreme cold conditions during winter periods, in order to prevent possible freezing oil vent lines, we permit below described modifications of aircraft oil system.

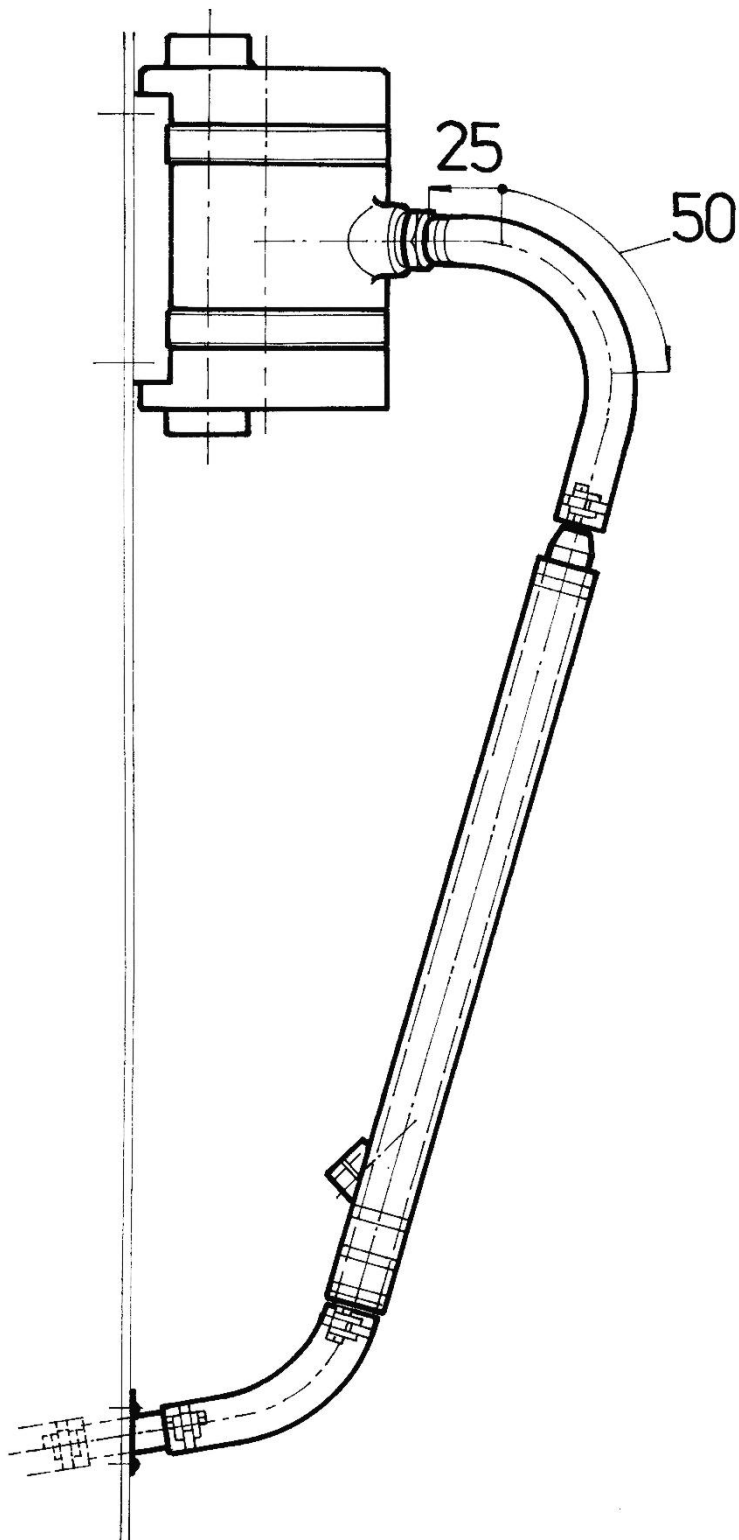
These modifications have been proposed by technicians of the aircraft operator.

Modifications shall be performed with the help of material and parts equivalent to original design and/or approved for General Aviation aircraft.

**3.1. Modifications applicable for S/N 0679, 0681, 0682, 0683, 0684 and 0685:**

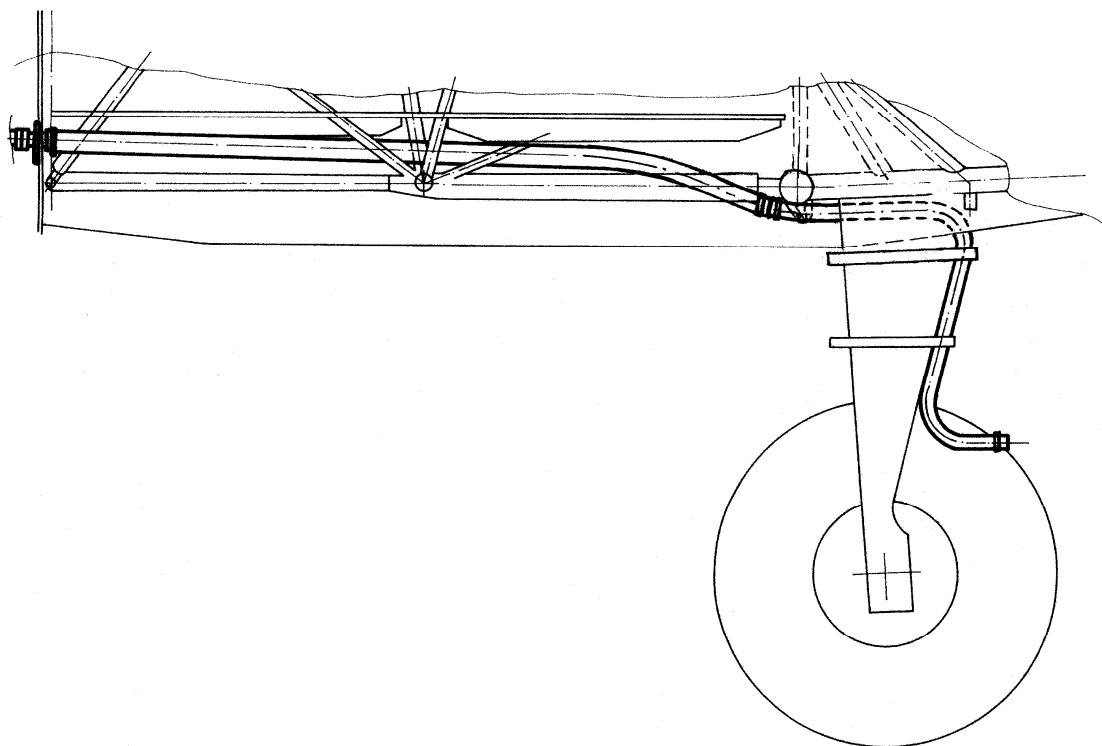
Replace original rubber hose between the air oil separator and the metal breather tube with hose material Stratoflex 193-10 (or equivalent). On this hose, in accordance with Fig. 1 below, make a 50 mm slice beginning 25 mm from the end of the fitting coming out of the air oil separator using a razor knife. The slice shall be orientated at the top of the hose in the direction of flow through the hose.

An insulation cover (fire sleeve Stratoflex 2650-13 or equivalent) shall be installed on the metal breather tube (including the short branch tube).



*Fig. 1 - Oil breather line modifications for S/N 0679, 0681, 0682, 0683, 0684 and 0685*

In addition, an insulation cover (fire sleeve Stratoflex 2650-13 or equivalent) on the metal tube which exits the fuselage and is routed down the trailing edge of the right gear leg shall be installed. See Fig. 2 below.



*Fig. 2 - Oil breather line modifications for S/N 0679, 0681, 0682, 0683, 0684 and 0685*

### 3.2. Modifications applicable for S/N 0742, 0745 and 0746:

Replace original rubber hose between the air oil separator and the metal breather tube with hose material Stratoflex 193-10 (or equivalent). On this hose, in accordance with Fig. 3 below, make a 50 mm slice beginning 25 mm from the end of the fitting coming out of the air oil separator using a razor knife. The slice shall be orientated at the top of the hose in the direction of flow through the hose.

An insulation cover (fire sleeve Stratoflex 2650-13 or equivalent) shall be installed on the metal breather tube.

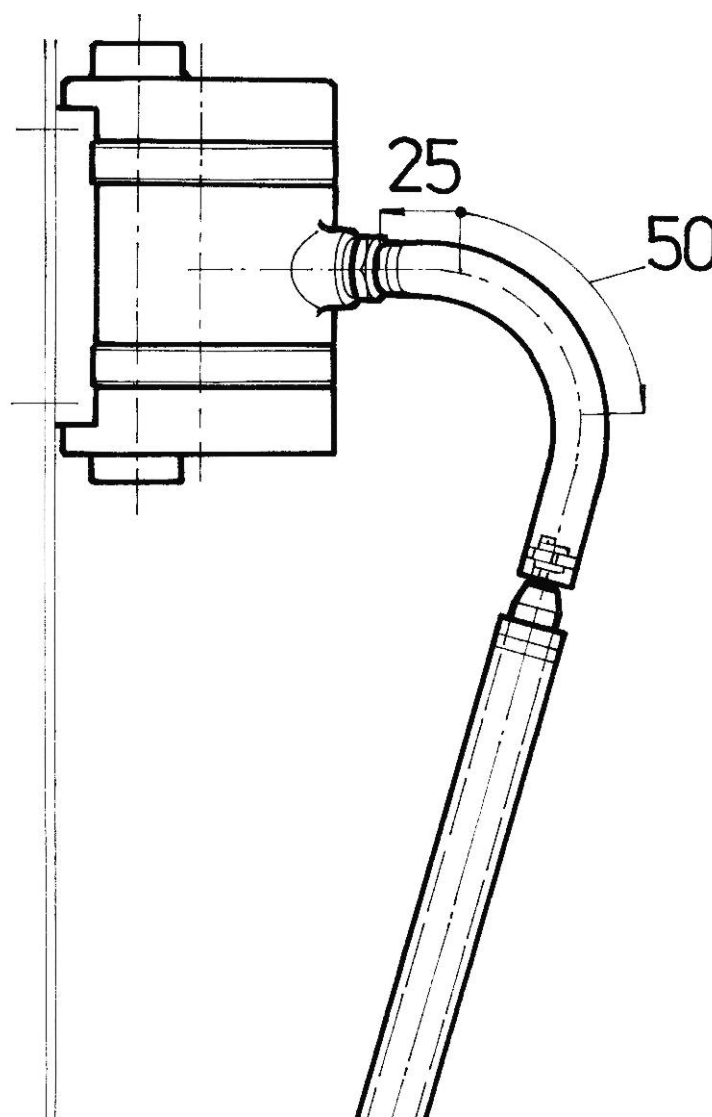


Fig. 3 - Oil breather line modifications for S/N 0742, 0745 and 0746



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In addition to the slice in the flexible hose, drill a 5mm hole in the metal breather tube approximately 10mm above the upper clamp attaching the breather tube to the exhaust silencer and then use a 5mm diameter punch in order to internally offset the hole opening so that the flow of material inside the tube would be deflected towards the center of the tube instead of flowing out of the hole. The insulation cover (Stratoflex 2650-13 firesleeve) installed on the breather system metal tube coming from the air oil separator shall end above the 5mm hole so that it did not cover it.

A handwritten signature in blue ink, appearing to read 'Totek', written in a cursive style.

.....  
**Dusan Totek**  
Chief Designer

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