



# **SERVICE BULLETIN Supplement**

## **SB-42-019-2015 FUEL PUMP C42-Series**

Published Date: April 2017

### **Subject:**

- The previous determination that the electric fuel pump should be switched on even after the start can be canceled if the modification described below is carried out on the fuel system.

### **Application:**

- All UI-Aircraft from Type IKARUS C 42 Series with:
  - a) Built-in fuel return line and
  - b) ROTAX Fuel pump type BCD (ROTAX P / N 893115)

### **Deadline:**

- Within the next 50h or until 01.07.2017

### **Impact on airworthiness:**

- Since there is no redundancy due to the switched-on electric pump, towing and operating modes with a prescribed second fuel pump are not permitted.

### **Classification:**

- "Supplement to Service Bulletin"

### **Weights and Balance:**

- Not affected

### **Electrical Load:**

- The power consumption is reduced by switching off the electrical fuel auxiliary pump after start-up as originally intended.

### **Caution!**

During work on the fuel system, smoking, the use of fire and open light in the immediate vicinity of the aircraft is prohibited. A warning sign must be placed visibly for third parties. Suitable ventilation must be provided.

Allow the engine to cool down before starting work



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#### Required actions:

- 1) Installation of an additional gasket (seal) / distance under the mechanical fuel pump (Comco Art-Nr .: ZK-0539)



- 2) Replacement of the return nozzle (diameter 0.35 mm) in the tee or crosspiece of the return line through a return nozzle with an inner diameter of 0.7 mm (Comco Art-Nr .: E-005348, right part on picture)



#### Operating Procedure:

- 1) Dismantling the mechanical fuel pump

**Attention!**

The original gasket (seal) must not be damaged.

- 2) The Comco additional gasket is placed on the pump side in addition to the sealing package. (Art-Nr .: ZK-0539)

**Comment:**

The Comco add-on gasket is significantly larger and blue in color for better visibility.

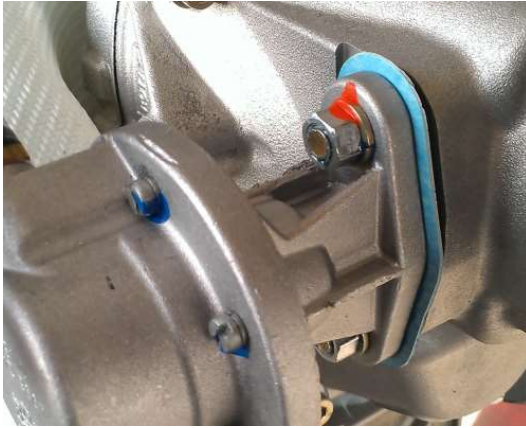
- 3) Installation of the mechanical fuel pump according to ROTAX Maintenance Manual with additional seal



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#### **Attention!**

The torque of the mounting nut (Hex-nut M8) is 15 Nm. The Hex-nut M 8 is secured with Loctite 243.

- 4) Release the return line from the tee or cross piece in the engine compartment
- 5) Unscrew the existing reducing nozzle (diameter 0.35 mm) with a **suitable** screwdriver and replace it with a new reducing nozzle (diameter 0.7 mm, Comco Art-Nr .: E-005348)  
Secure the reducing nozzle against unscrewing with a light impact at the end of the hose nipple of the T- or crosspiece

- 6) Installation of the return line on the tee or cross piece with Cobra hose clamps (purple)

#### **Comment:**

In the case of non-existing special Cobra hose clip plier the clamping of the cobras can also take place with a combi plier or an dull side cutter

- 7) Execution of a functional motor test, for leakage control (visual inspection without upper cowling) with and without electric fuel auxiliary pump switched on

#### **Attention!**

Even under full load, any engine running malfunctions must not occur when the electrical fuel pump is turned off (after 1-2min).

This test shall be repeated at sufficient altitude in the climb and shall be documented in the logbook.

In case of questions or problems with this action consult with one of our IFCs, ITBs or ISCs.