

issues

NOTIFICATION BULLETIN No. RTC-056b R1

**TECHNICAL CONTENT OF THIS DOCUMENT IS APPROVED ON
THE BASIS OF AUTHORIZATION DOA NO. EASA.21J.057.**

- 1. CONCERNING TO:** All airplanes SPORTSTAR RTC equipped with the Pierburg P/N 7.21440.51 electric fuel pump.
- 2. REASON:** The aircraft manufacturer introduced by design change installation of the Facet 478360 / Facet 476087E electric fuel pump in the fuel system. By installing this pump, it is possible to reduce the contingent oscillation of fuel pressure.
- 3. REQUIRED ACTIONS:**
 1. Replace the electric fuel pump Pierburg P/N 7.21440.51 in fuel system with the Facet 478360 / Facet 476087E electric fuel pump.
 2. Record the bulletin implementation in the Logbook.
- 4. LATEST DAY OF THE ACTION:** As necessary.
- 5. CARRIED OUT BY:** Organization with authorization for maintenance/repairs of this type of airplane in accordance with Part M, Part ML, Part CAO, Part 145.
- 6. COSTS COVERED BY:** Operator / owner of the airplane.
- 7. NECESSARY MATERIAL:** In accordance with the text of the bulletin.
- 8. WORK PROCEDURE:** In accordance with the text of the bulletin.
- 9. APPENDICES:** None.

Valid from: October 10th, 2023

**1. Work procedure****1.1 Necessary tools**

See Airplane Maintenance Manual for SportStar RTC (doc. No. ERTC022-10-AS), Section 28-20.

1.2 Necessary material (RTC056B)

Name	Marking	Nomencl.	Quantity
Pump assembly FACET	-	S6 69-10 01	1 pc
Stiffener	-	S6 69-09 21	1 pc
Screw	M6x25	011825	2 pcs
Washer	6.4	038206	2 pcs
Screw	M4x10	001691	1 pc
Nut	M4	011820	1 pc
Washer	4.3	038204	1 pc
Rivet	3.2x6.6 BE61-0408	047554	3 pcs
Shrink tube	RNF-3000	088090	0.05m
Fuel hose	Super Flex FL-7	056299	0.5 m
Hose clamp	Cobra 12.0/8 W4	074508	2 pcs
Hose clamp	Cobra 11.0/8 W4	074506	2 pcs
Thread locker	Loctite 243	096220	1 pc
Cable tie	PLT1M-C	060332	6 pcs
Cable tie	PLT1.5I-C	060333	10 pcs

Material shall be supplied by the airplane manufacturer.

1.3 Work procedure**1.3.1 Preliminary work:**

- 1.3.1.1 Remove engine cowlings according procedure mentioned in the Airplane Maintenance Manual for SportStar RTC, Section 71-10 (doc. No. ERTC022-10-AS).
- 1.3.1.2 Remove cover of upper part of the fuselage according procedure mentioned in the Airplane Maintenance Manual for SportStar RTC, Section 53-30.
- 1.3.1.3 Remove oil tank according procedure mentioned in the Airplane Maintenance Manual for SportStar RTC, Section 79-10.
- 1.3.1.4 If the aircraft is equipped with an emergency parachute system, remove it according procedure mentioned in the Airplane Maintenance Manual for SportStar RTC, Section 25-60.
- 1.3.1.5 Cut off the cable ties securing a heating system hoses in the airplane cockpit to the structure.
- 1.3.1.6 As necessary, remove / disassemble other parts so that you can easily access the electric fuel pump.

1.3.2 Remove electric fuel pump according procedure mentioned in the Airplane Maintenance Manual for SportStar RTC, Section 28-20.**1.3.3 If the aircraft has a check valve installed according to the original fuel distribution system (see Airplane Maintenance Manual for SportStar RTC, Section 28-20), modify it to the new version:**

- 1.3.3.1 Remove the hose between T-connection and bushing on the firewall.
- 1.3.3.2 Cut 3 pieces of hose in lengths of approx. 50 and 2x 35 mm.

- 1.3.3.3 Install the check valve according to the new version (see Airplane Maintenance Manual for SportStar RTC, Section 28-20); the 50 mm long hose is between T-connection and the fuel filter.
- 1.3.4 Drill out three rivets on the oil tank holder (see Detail A, Fig. 1).
- 1.3.5 Position the stiffener from inside of firewall so that its position corresponds to Detail A in Fig. 1 and drill it with the firewall.
- 1.3.6 Use 3.2x6.6 rivets to attach it to the inside of the firewall.
- 1.3.7 Mark the position of the lower hole for the pump bracket and drill a hole with a 6.5 mm drill bit (see Detail A, Fig. 1).
- 1.3.8 Position the pump on the lower hole, mark the position of the upper hole for the pump bracket and drill a hole with a 6.5 mm drill bit (see Detail A, Fig. 1).
- 1.3.9 Clean the edges of the holes.

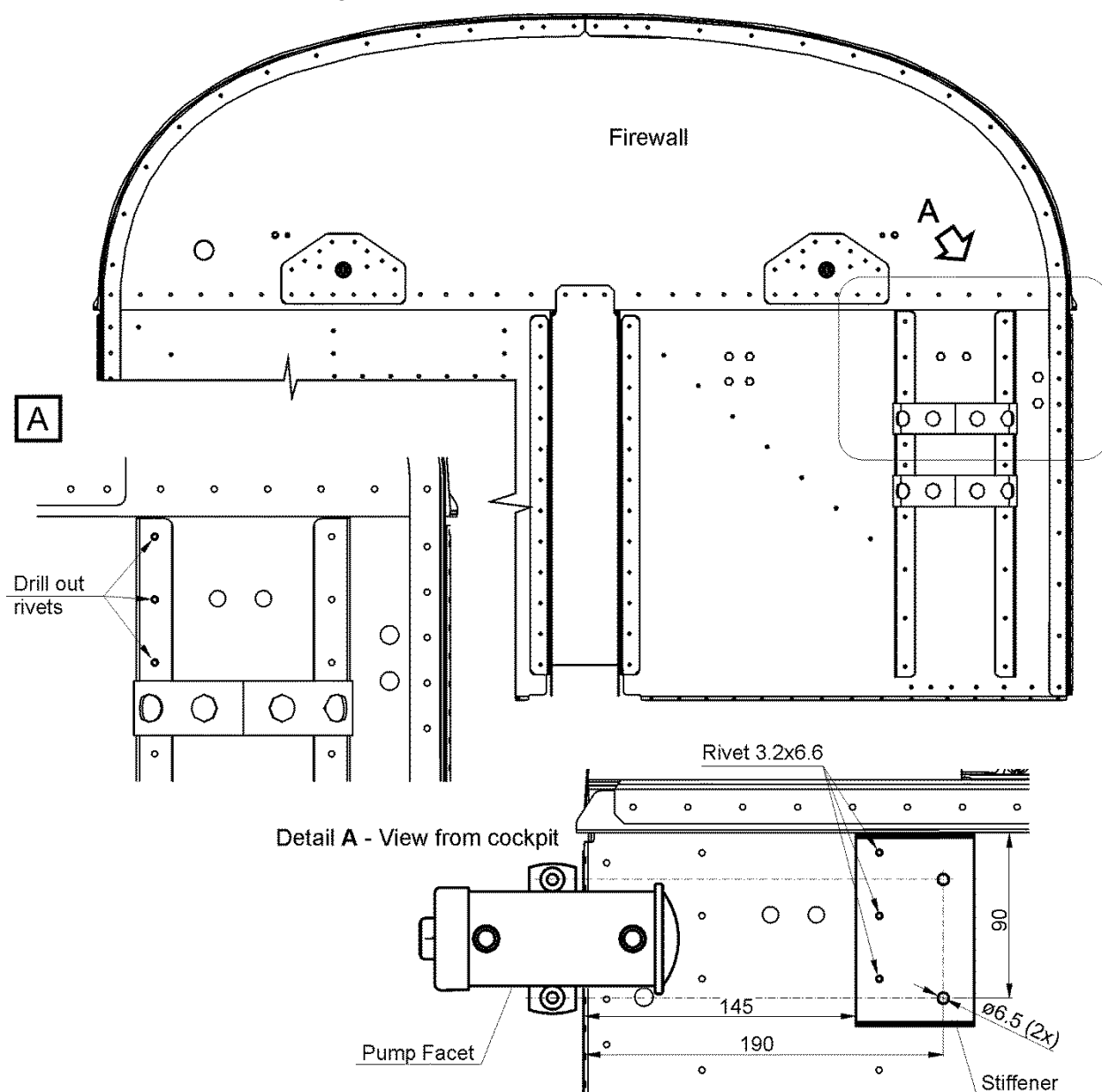


Fig. 1 – Drilling of holes

1.3.10 Install the electric fuel pump:

- 1.3.10.1 Clean the thread of the screws (5, Fig. 2) and washers (6) with acetone, put the washers on the screws.
- 1.3.10.2 Position the pump (1) in the appropriate place on the inside of the firewall (13).
- 1.3.10.3 Apply Loctite 243 to the screws thread and attach the pump (1).
- 1.3.10.4 Connect the hoses (7; 8) with necks on the pump (2); secure the hoses by the clamps (4) by means of pliers.
- 1.3.10.5 Put the shrink tube on the wire (3).
- 1.3.10.6 Connect the wires (3, 9) with the screw (10), washer (11) and nut (12).
- 1.3.10.7 Pull over the joint with a shrink hose and use a hot air gun to shrink the hose.
- 1.3.10.8 Twist the original ground wire and secure it to the heater hose with a cable tie.

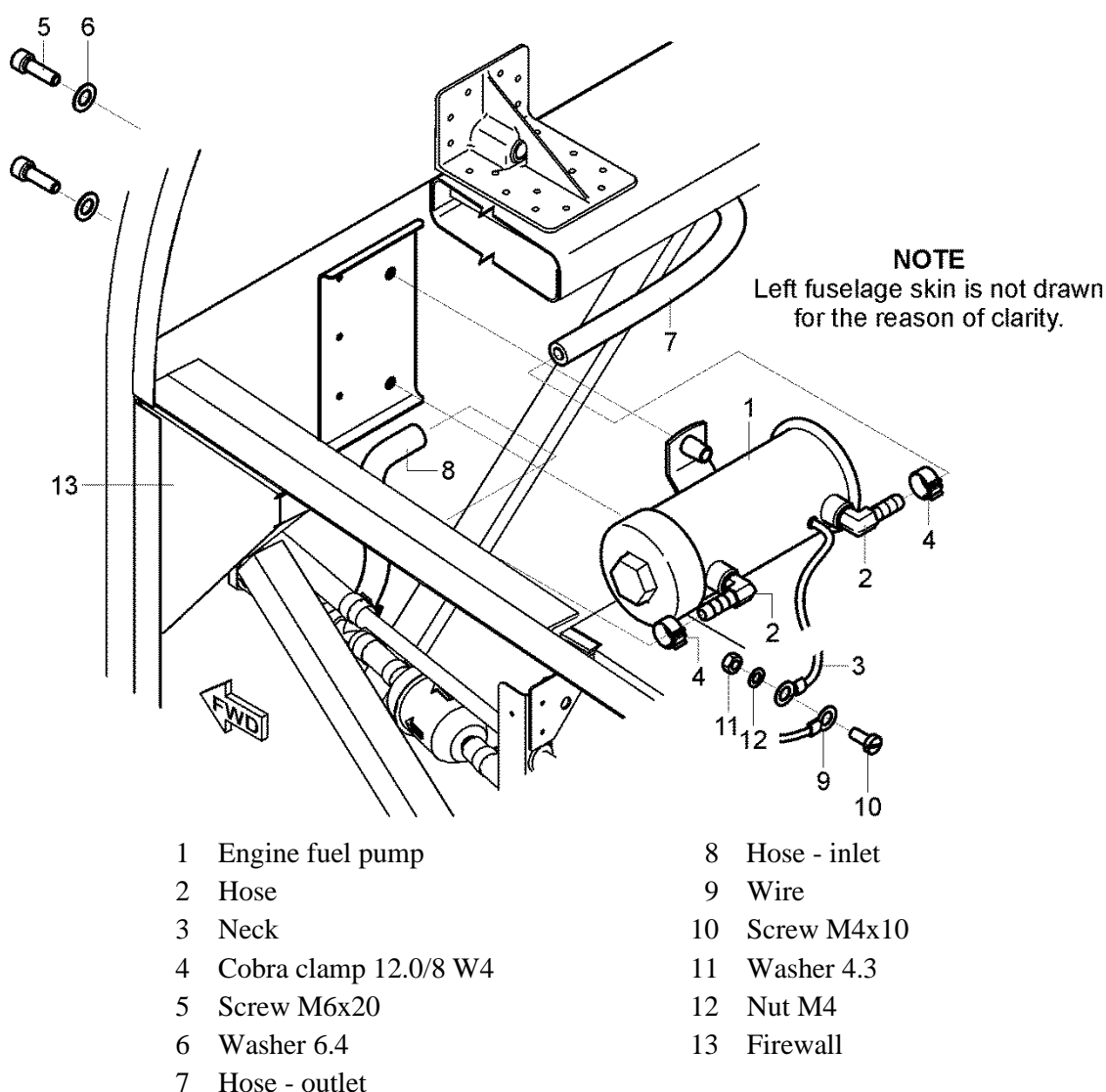


Fig. 2 – Electrical pump installation

1.3.11 Finishing work:

- 1.3.11.1 As necessary, install / assemble other parts so that you can easily access the electric fuel pump
- 1.3.11.2 Secure a heating system hoses in the airplane cockpit to the structure with the cable ties.
- 1.3.11.3 If the aircraft is equipped with an emergency parachute system, install it according procedure mentioned in the Airplane Maintenance Manual for SportStar RTC, Section 25-60.
- 1.3.11.4 Install oil tank according procedure mentioned in the Airplane Maintenance Manual for SportStar RTC, Section 79-10.
- 1.3.11.5 Install cover of upper part of the fuselage according procedure mentioned in the Airplane Maintenance Manual for SportStar RTC, Section 53-30.
- 1.3.11.6 Do the engine check, check the fuel pressure and fuel system for leaks.
- 1.3.11.7 Install the engine cowlings according the procedure mentioned in the Airplane Maintenance Manual for SportStar RTC, Section 71-10.

2. Influence on airplane documentation

2.1 Accompanying technical documentation"

Not affected.

2.2 Operation technical documentation

The authorized person will carry out this record in the Aircraft Logbook after bulletin implementation: „**Installation of the Facet 478360 / Facet 476087E electric fuel pump in the fuel system was carried out according to the Information Bulletin No. RTC-056b R1**“ and he will add the date and his signature.

3. Influence on weight and balancing

0.45 kg of mass is added with no effect on the balance.