

Czech Sport Aircraft, a.s.	<b>SERVICE BULLETIN</b>	Czech Sport Aircraft, a.s. Na Záhonech 1177/212, 686 04 Kunovice Czech Republic office@czechsportaircraft.com
No. SB-PS-008		Rev.: -
Date: 2011/04/18		
Page: 1 of 3		Date: -

<b>MODEL AFFECTED:</b>	PiperSport
<b>SUBJECT:</b>	Additional installation of the diode in the electrical fuel pump circuit
<b>AIRCRAFT AFFECTED:</b>	PiperSport S/N P1001040, P1001041, P1001042, P1001043 PiperSport S/N P1001001 to P1001039 and P1001044 and subsequent have the subject of this bulletin accomplished prior to delivery by the manufacturer or by an authorized dealer.
<b>COMPLIANCE:</b>	Within 25 flight hours, but not later than May 31, 2011.

**DESCRIPTION:**

The Service Bulletin concerns an additional installation of the diode in the electric fuel pump circuit. There were observed several events, when the switching electrical fuel pumps off causes a DSAB error. These events concern only aircraft equipped with Dynon D100/D120 glass cockpit avionics, where the indicator of the fuel pump status is displayed by EMS D120.

**AUTHORISATION TO PERFORM:**

US: Repairman (LS-M) or Mechanic (A&P). Europe & Elsewhere: EASA Part M Maintenance organization.

**MANPOWER:**

Approximately 30 minutes is required to complete this Service Bulletin. Man-hours are based on the hands-on time, and may vary with personnel and facilities available.

**CONSUMABLE MATERIAL:**

PART NUMBER	NOMENCLATURE	QUANTITY
EPD 15	1N4007 DIODE RETROFIT KIT	1
	HEAT SHRINKABLE TUBING	100 mm

**SPECIAL TOOLS:**

Not affected.

**WEIGHT AND BALANCE:**

Not affected.

**ELECTRICAL LOAD DATA:**

Not affected.

**REFERENCES:**

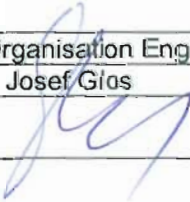
PiperSport Maintenance Manual PS-MM-1-0-00  
PiperSport -LTD- Wiring Manual PS-WM-1-1-01

**PUBLICATIONS AFFECTED:**


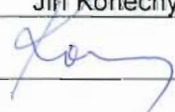
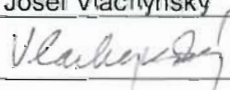
PiperSport -LTD- Wiring Manual PS-WM-1-1-01

**APPROVAL:**

This SB was prepared by:

Title	Design Organisation Engineer
Name	Josef Glas
Hand written signature	

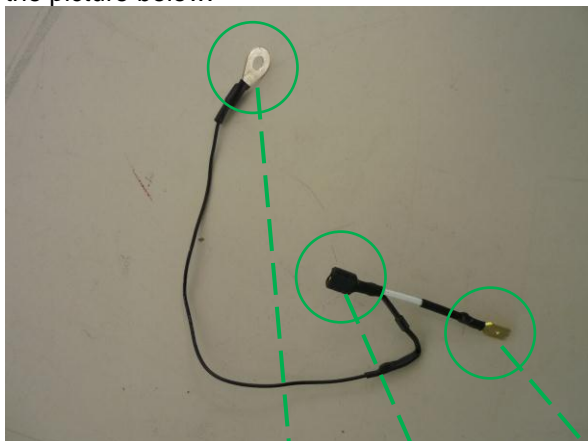
and approved by

Title	Compliance Verification Engineer	Head of the Design Organisation	Airworthiness Manager	EASA (if applicable)
Name	Tomaš Maršálek	Jiří Konečný	Josef Vlachynský	N/A
Hand written signature				N/A

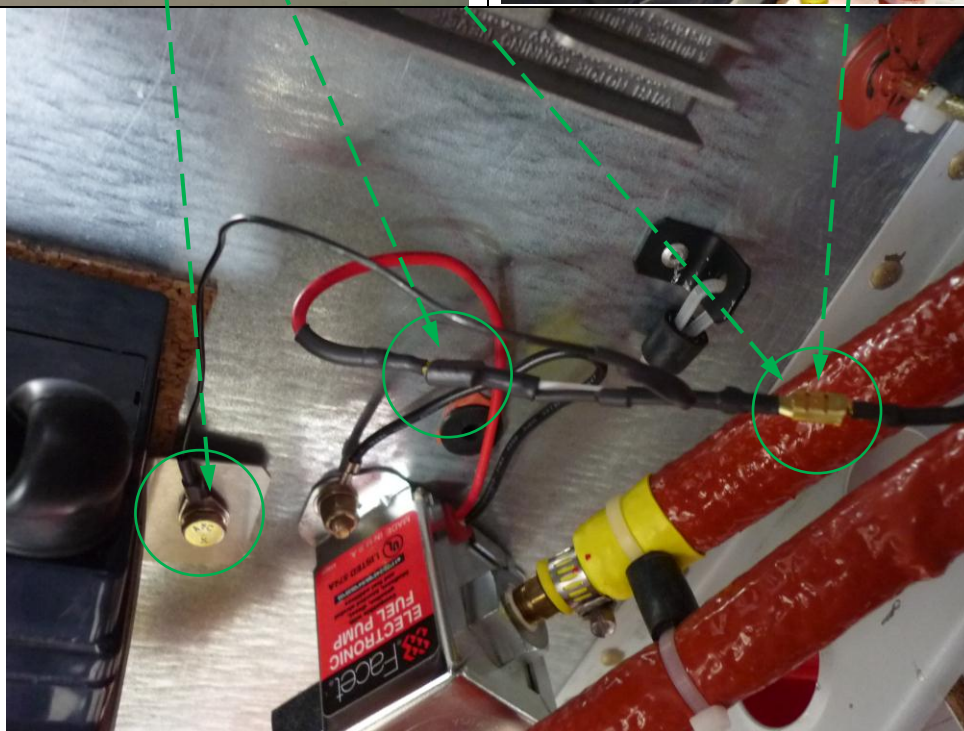
# SERVICE BULLETIN

## ACCOMPLISHMENTS INSTRUCTIONS:

1. Remove engine cowlings, disconnect positive battery terminal. Prepare the diode kit shown in the picture below.



2. Disconnect the fast-on connector in electrical fuel pump circuit, marked in circle in the picture below.



3. Install the diode kit as shown in the picture above. Use the heat shrinkable tubing for joints insulation.

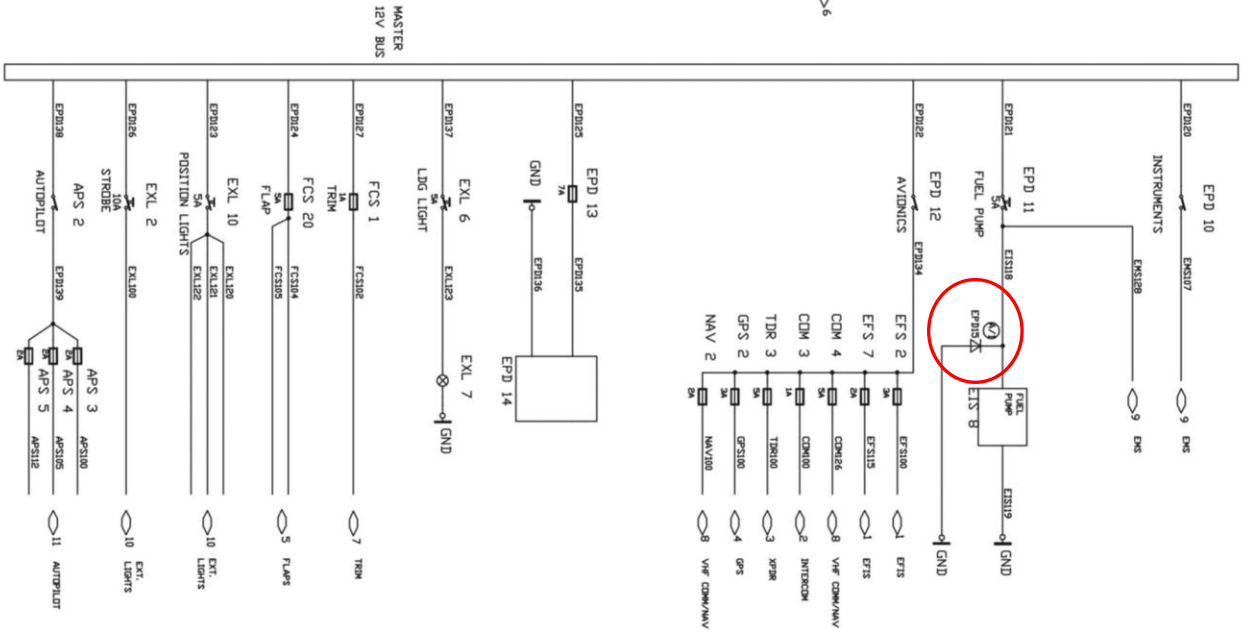
4. Restore the aircraft to the airworthy condition. Perform the electrical fuel pump operating test. Check the stability of the DSAB during the fuel pump switching off. Check the proper indication of electrical fuel pump status.

5. Complete aircraft records to reflect compliance with this bulletin.

## Appendix 1 – DC POWER SYSTEM WIRING DIAGRAM

See the next page.

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- 11 SI 00 34E N AUTOPILOT SYSTEM #P-74
- 10 SI0333N EXTERNAL LIGHTS
- 9 SI0333N DMS D-120
- 8 SI0333N VHF COM1 SL-30
- 7 SI0333N ALERON-ELEVATOR TRIM
- 6 SI0333N ENGINE ROTAX 912
- 5 SI0333N FLAPS
- 4 SI0333N GPWAP 296/296/496/496/696/696
- 3 SI0333N GTX-300/300
- 2 SI0333N PFC000
- 1 SI0333N ETS B-100, MS34

- APS - Auto Pilot System
- INTL - Internal Lights
- EMS - Engine Monitoring System
- FCS - Flight Control System
- EXL - Exterior Lights
- ETS - Engine Instruments System
- EPD - Electric Power DC

ITEM	SYMBOL	WIRE NUMBER	DESCRIPTION	WIRE GWT
25	EPD 15	IN4007	DIODE	
24	EPD 13	VS8XC/C12A 2A	TERMINAL GROUND	
23	GND		FUSE	
22	TDR 3	VS8XC/C12A 5A	FUSE	
21	GPS 2	VS8XC/C12A 3A	FUSE	
20	FCS 20	VS8XC/C12A 5A	FUSE	
19	FCS 1	VS8XC/C12A 1A	FUSE	
18	EXL 10	V31YBHIG 5A	CIRCUIT BREAKER	
17	EXL 7	ECLIPSE HND SWITCH	LANDING LIGHT	
16	EXL 6	V31YBHIG 5A	CIRCUIT BREAKER	
15	EXL 2	V31YBHIG 10A	CIRCUIT BREAKER	
14	EPD 14	VS8XC/C12A 7A	LIGHTER CONNECTOR	
13	EPD 13	VS8XC/C12A 2A	FUSE	
12	EPD 12	KN3CO-10I	SWITCH	
11	EPD 11	V31YBHIG 5A	CIRCUIT BREAKER	
10	EPD 10	KN3CO-10I	SWITCH	
9	ELS B	KN3CO-10I	FUEL PUMP	
8	ELS 2	VS8XC/C12A 2A	FUSE	
7	ELS 2	VS8XC/C12A 3A	FUSE	
6	CLUM 4	VS8XC/C12A 10A	FUSE	
5	CLUM 3	VS8XC/C12A 1A	FUSE	
4	APS 5	VS8XC/C12A 2A	FUSE	
3	APS 4	VS8XC/C12A 2A	FUSE	
2	APS 3	VS8XC/C12A 2A	FUSE	
1	APS 2	KN3CO-10I	SWITCH	

THW DC POWER SYSTEM S10333N