

Czech Sport Aircraft a.s.	SERVICE BULLETIN	Czech Sport Aircraft a.s. Na Záhonech 212, 686 04 Kunovice Czech Republic office@czechsportaircraft.com
No. SB-CR-031		Rev.: -
Date: 2015-08-10		
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MODEL AFFECTED:	SportCruiser , PS-28 Cruiser
SUBJECT:	Inspection/replacement of the Semperit FUB 386 fuel hoses
AIRCRAFT AFFECTED:	SportCruiser, serial numbers: C0524, C0525, C0526, C0527,C0528 PS-28 Cruiser, serial numbers : C0504, C0519,C0521
COMPLIANCE:	From the date of issue of this Service Bulletin

DESCRIPTION:

There is a great probability that the SportCruiser and the PS-28 Cruiser airplanes mentioned above are equipped with the Semperit Fuel Hoses dated 3Q/2014. The hoses were found faulty by the manufacturer.

REASON:

The CSA had been informed of a problem with a recently manufactured batch of the Semperit Fuel Hose FUB 386 3Q/2014. The affected batch is clearly printed with 3Q/2014 (manufactured in 3rd quarter 2014). No reported faults with earlier batches of the hose are known.

The problem was first noticed as a disintegration of the inner hose layer and a partial blocking of the flow. Subsequently reports of swelling and softening of the outer protective layer and a fuel smell emanating from the hose came up. Based on some faulty hose pieces returned to Semperit they have agreed that the 3Q/2014 batch is faulty and has no or a reduced fuel resistance which may cause serious malfunction. They have confirmed that some of the inner tube layer has been manufactured from a mix of wrong raw material and can either degrade or allow fuel to permeate through to the outer protective layer, which is not intended to be a fuel resistant layer.

SUBJECT:

All airplanes equipped with the Semperit Fuel Hoses dated 3Q2014. See also the point "Aircraft affected" above.

MANPOWER:

Maximum 8 hours are required to complete this Service Bulletin.

SPECIAL TOOLS

Screw driver, knife to cut hoses, pliers for clips, appropriate spanners, cutting pliers, mirror, light.

WEIGHT AND BALANCE:

Not affected

ELECTRICAL LOAD DATA:

Not affected

REFERENCES:

PS-28 Cruiser / SportCruiser Maintenance Manual, Doc. No. CR-MM-1-0-00
SportCruiser Airplane Maintenance Manual, SC-AMM-1-0-00

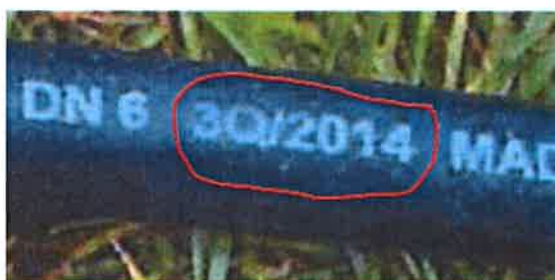
COSTS FOR REPLACEMENT:

Material (new hoses) for replacement will be delivered by Czech Sport Aircraft against order, free of charge.

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ACCOMPLISHMENT INSTRUCTIONS:

1. Move the airplane to a suitable place to perform the work
2. Remove engine cowlings, disconnect positive battery terminal (see the Maintenance Manual).
3. To get a sufficient access to the areas with fuel hoses, open the relevant inspection holes (follow the Maintenance Manual).
4. The hoses are marked with print at every app. 30 cm of their length. A part of the print is a quarter and a year of the batch, see the picture bellow. The fuel hoses in engine area are covered by protective pyrojackets and the hoses ends are fitted with Thermofit CGPT hoses (yellow) for easy attachment to the sockets, see the picture bellow. Before the print check it is necessary to disconnect the hose from the fitting, i.e. untighten the hose clamp, cut up the Termofit CGPT hose (yellow) and draw down the pyrojacket.



Hose with Quarter and the year print



Fuel hose with Pyrojacket, hose clamp and Thermofit CGPT hose

5. Check printing of all fuel hoses installed on the aircraft.
6. If no fuel hoses with the print 3Q/2014, no hoses with an illegible or with missing print are found then connect the fuel hose back to the fitting - pull on the protective pyrojacket back, fit the hoses ends with the Thermofit CGPT hose and tighten with hose clamps. Then continue with the point No.8.
7. If any of the fuel hoses with 3Q/2014, illegible or missing print are found then drain all fuel from the system and replace the faulty fuel hoses. Fit them back with the protective pyrojackets, Thermofit CGPT hoses and hose clamps. Tighten the hose clamps.
8. Rinse the fuel system thoroughly. In case any faulty hoses were found dismount also carbureters and clear it in the washing machine acc. to the 200 FH inspection in the Rotax Maintenance Manual. The fuel system and instructions are described in the Maintenance Manual, Chapter 9 – Fuel System.
9. Check fastening of the fuel hose clamps and check the fuel system tightness.
10. Screw the inspection hose covers back.
11. Connect the battery.
12. Install the engine cowlings.
13. Restore the aircraft in the airworthy condition.
14. Conduct test engine run. After the test engine run check that there are no fuel leakage indications.
15. Annotate aircraft maintenance records to reflect compliance with this bulletin.

APPROVAL:

This SB was approved by:

Title	Head of the Design Organisation	Airworthiness Manager
Name	Jiří Konečný	Miroslav Koukal
Hand written signature		