

 CZECH SPORT AIRCRAFT	<h1>SERVICE BULLETIN</h1>	Czech Sport Aircraft a.s. Na Záhonech 212, 686 04 Kunovice Czech Republic office@czechsportaircraft.com
No. SB-CR-036		Rev.: 1
Date: 2017-08-29		
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<b>MODEL AFFECTED:</b>	PS-28 Cruiser SportCruiser / PiperSport – under EASA PtF operation only
<b>SUBJECT:</b>	Inspection of rivet holes on the firewall
<b>AIRCRAFT AFFECTED:</b>	All PS-28 Cruiser airplanes and SportCruiser / PiperSport operating under EASA PtF conditions
<b>COMPLIANCE:</b>	Apply this Service Bulletin not later than at the next scheduled inspection after 50 flight hours.

**DESCRIPTION:**

This Service Bulletin contains instructions for inspection and eventual repair of rivet holes on the firewall.

**APPROVAL:**

Action recommended by CSA. Repair instructions are in line with principles described in Doc. CR-MM-1-0-00, latest revision.

**AUTHORISATION TO PERFORM:**

EASA Part M or Part 145 approved Maintenance Organization

**REASON:**

Incorrect distribution of holes of the uppermost rivet row connection of the firewall P/N SF0101N and the stiffeners P/N SF0157L/P was discovered in the past on some aircraft during production process. The uppermost row of rivet holes in the stiffeners P/N SF0157LP did not fit to the respective holes in the firewall. Therefore, it is necessary to check whether the stiffeners are riveted to the firewall correctly. If not, corrective action described in this Service Bulletin is required.

**MANPOWER:**

Maximum 12 hours are required to complete this Service Bulletin.

**SPECIAL TOOLS:**

Drilling machine, riveting equipment, primary colour to repair a damaged paint. Sealing cement Emfimastic PU50. Another common tools for aircraft servicing.

**WEIGHT AND BALANCE:**

Insignificant effect.

**ELECTRICAL LOAD DATA:**

Not affected.

**REFERENCES:**

N/A

**PUBLICATIONS AFFECTED:**

N/A

**MATERIAL:**

Parts for repair will be supplied on request by the aircraft OEM or the respective supplier of the aircraft parts authorized by the aircraft OEM.

**COSTS:**

Except for the parts needed for the repair, any and all other costs related to execution of this Service Bulletin will be covered by the aircraft owner/operator.

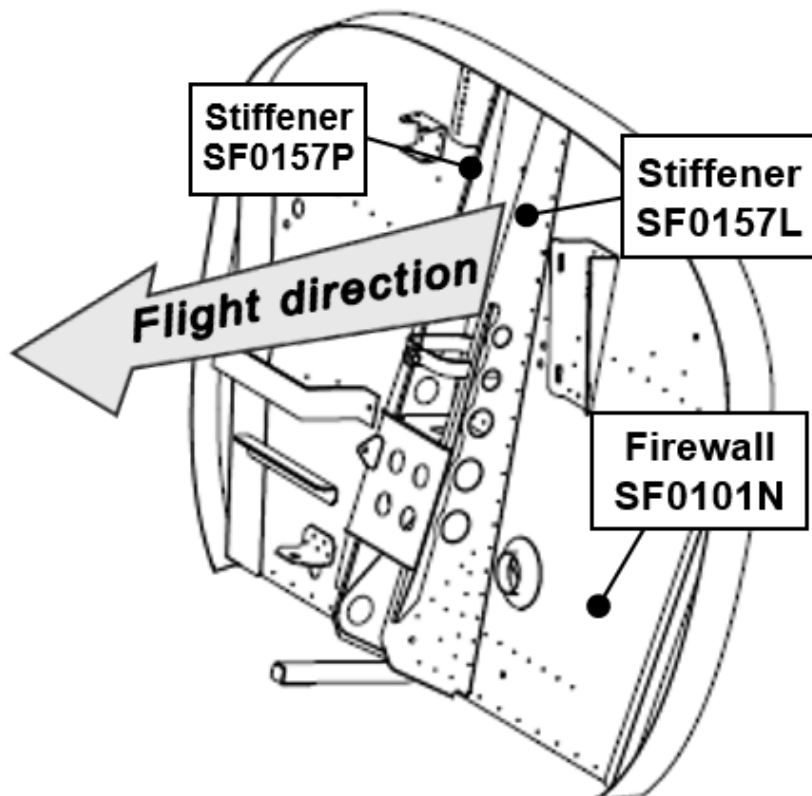
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**Material used:**

Item	Nomenclature, P/N	Standard (mm)	Number (pcs. / ml.)
-	-	(mm)	(pcs. / ml.)
Reinforcement part	CX0281N		1
Rivet		MS20470AD4-5	4
Blind Rivet AVEX 3,2x7,9 AL/ST PH01690410	3171T030	16910410	25
Acetone	4250V005		200
Sealing Cement "Emfimastic PU50" white	4410V045		150

**General information:**

As some cases of incorrect distribution of rivet holes on the firewall were discovered, it is necessary to inspect that the assembly of the stiffeners P/N SF0157L/P and the firewall P/N SF0101N is riveted correctly. The inspection consists of the check of the uppermost rivet row - see the illustrative figures below (Figure 1, Figure 2, Figure 3). The inspection has to be performed from both sides of the firewall. To get access from the cockpit area, the cover (9) of the rescue parachute box must be removed - see Figure 4 below.



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Figure 1 - View of the Firewall – Front view

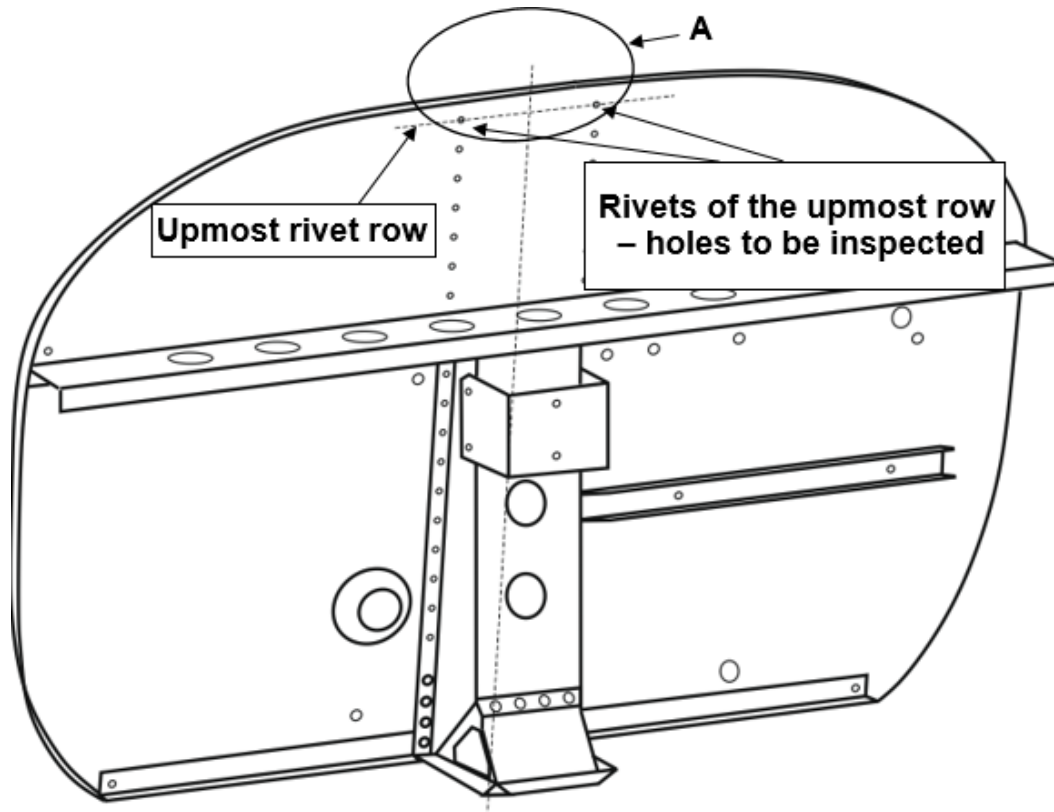


Figure 2 - View of the Firewall – Back view

**DETAIL A**

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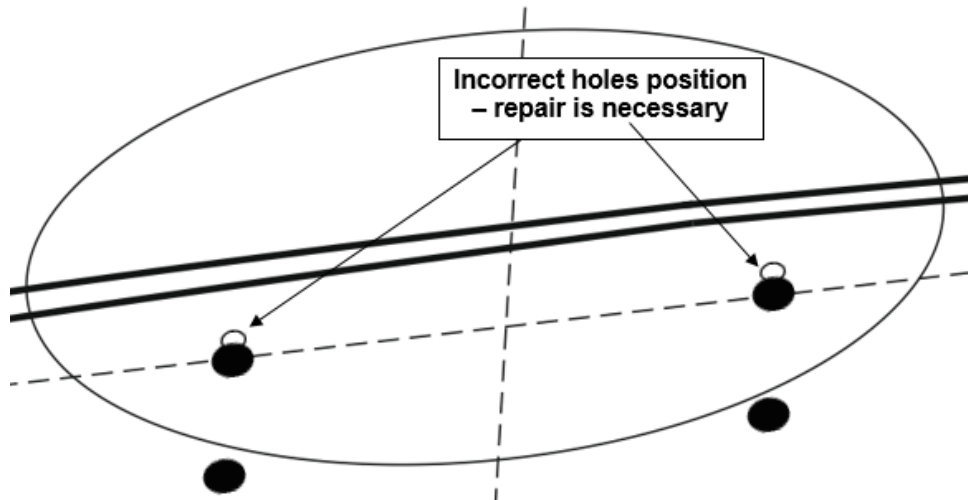


Figure 3 - Detail A

#### ACCOMPLISHMENT INSTRUCTIONS:

To accomplish this Service Bulletin carry out the following steps:

1. Move the aircraft to a suitable place to perform the work.
2. Remove the upper engine cowling, see the CR-MM-1-0-00, Point 10.2.1.2.
3. Remove the cover (9) of the rescue parachute box, see Figure 4 .

Note: The cover is pasted to fiberglass cockpit frame with polyurethane cement Emfimastic PU50. To remove the cover, use a suitable thin (0,3 – 0,4 mm) flat strip (straight edge or plastic sheet), penetrate under the cover and carefully separate the cover from the fiberglass cockpit frame. Paste a protecting stripe around the cover before separating.

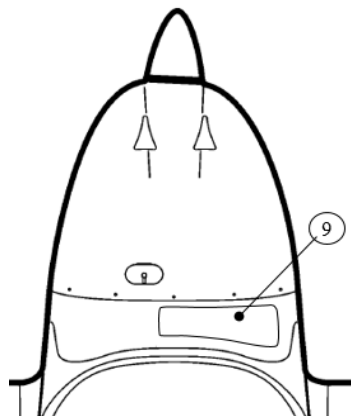


Figure 4 - Cover of the rescue parachute box

4. On the firewall, check thoroughly the uppermost row rivets fastening the stiffeners SF0157L/P to the firewall, see the illustrative figures above (Figure 1, Figure 2, Figure 3). The inspection has to be performed from both sides of the firewall.
5. If no ovality or cracks in the firewall near to the inspected area are found, then the rivet joints are to be considered as correct and only the steps 17,19, 20 and 21 of this bulletin are necessary to be performed in such a case.

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6. If ovality of the rivet holes (the rivet hole edge is visible) or some cracks in the firewall near to the inspected area are found, those rivet joints are considered to be faulty / incorrect and repair in accordance with this bulletin is necessary. Continue with the next step 7 in such a case.
7. Disconnect the positive battery terminal
8. Dismount the left instrument panel with instruments (see Figure 5), put it on a clean soft pad. Do not remove and do not disconnect the instruments.

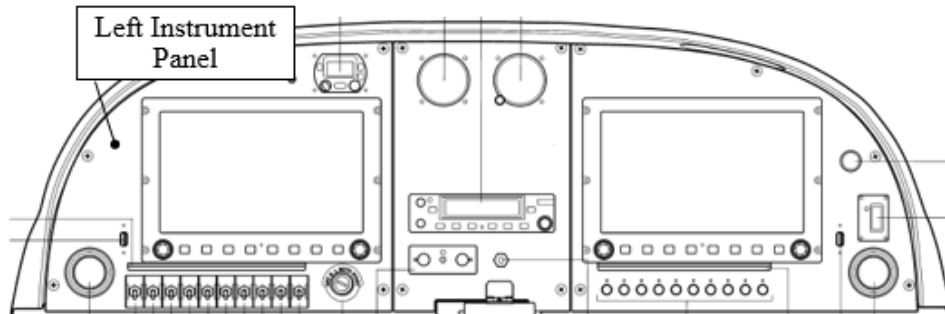


Figure 5 -Instrument panel

9. Remove the BRS rocket from the holder and put the rocket on a soft pad carefully, see Figure 6.

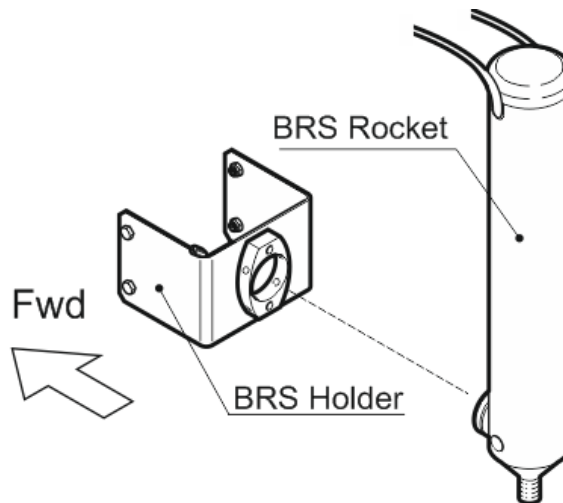


Figure 6 - BRS Rocket and Holder

10. Remove three relays and one capacitor, do not disconnect the wiring - see Figure 7.

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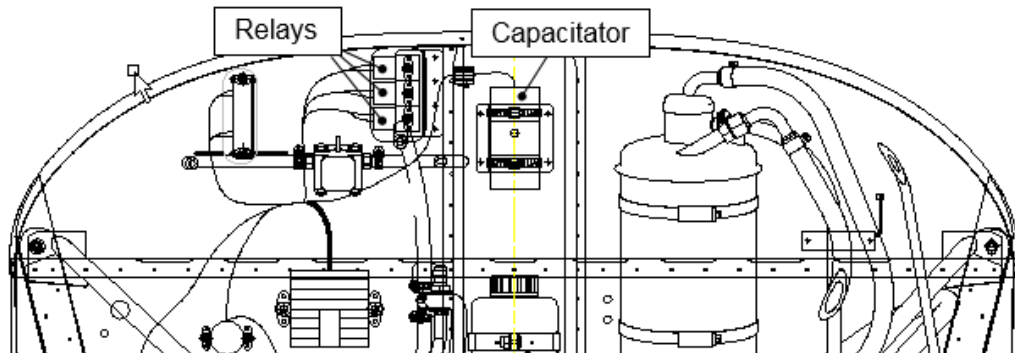


Figure 7 - Firewall – front view (from the engine side)

11. Drill away carefully two plus two upper rivet heads fixing the stiffeners and two upper rivet heads of the relays holder. Remove the rivets - see Figure 8.

**Note:** The rivets to be removed are located in the area where the repair by the reinforcement part is to be performed.  
 All drilling operations have to be performed very carefully to avoid a damage of the wiring or the airplane equipment.  
 During drilling, protect thoroughly the relevant area from pollution with clean cloth and suction cleaner.

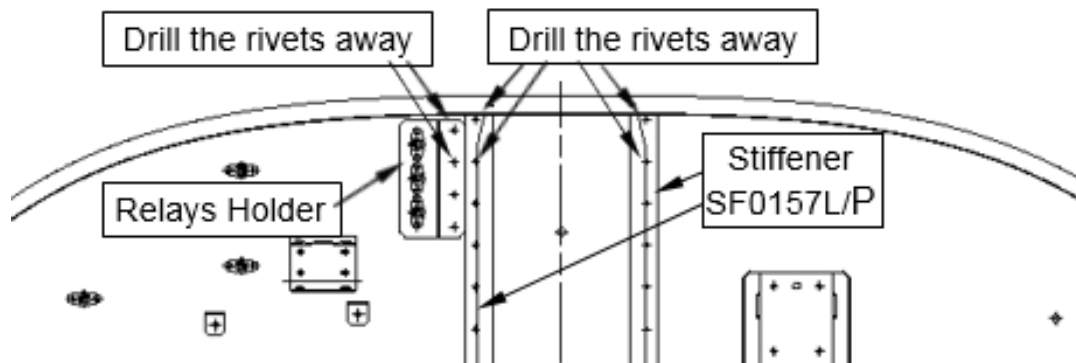


Figure 8 - Drilling the rivets away (view from the engine side)

12. Bore the incorrect rivet holes with drill bit of dia.5 mm, cracks with drill bit of dia.3,2 mm (1/8 in) - see step no. 6 and Figure 3.
13. Touch the reinforcement part to the firewall from the cockpit side, fit the part in accordance with Figure 9, drill the rivet holes and rivet the reinforcement part with the firewall, stiffeners SF0157L/P and the relays holder.

**Note:** The BRS rocket (secured on a soft pad) must not be in contact with the firewall during riveting operations.

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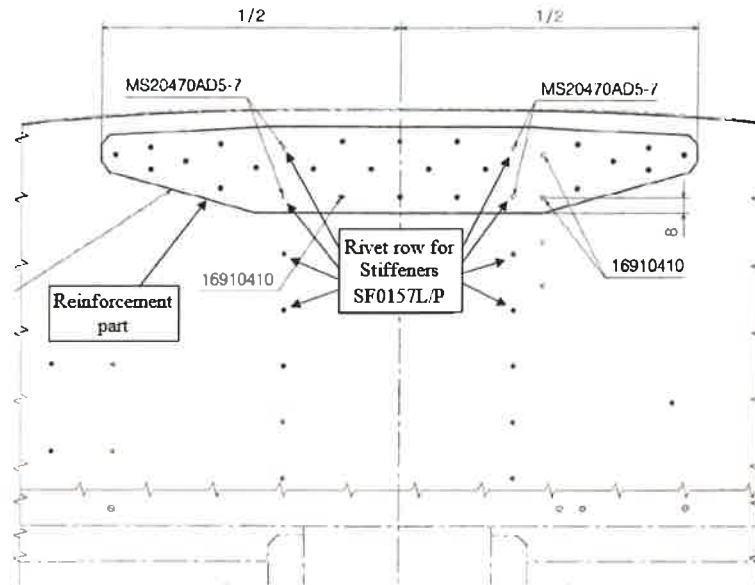


Figure 9 - Reinforcement part touched to the firewall (view from the cockpit)

14. Install three relays (6) on the holder and the capacitor on the firewall.
15. Install the BRS rocket on the holder.
16. Install the left instrument panel with instruments.
17. Paste the cover (9) to fiberglass cockpit frame.

Note: Use acetone to degrease the surfaces before pasting.  
Use the Emfimastic cement PU50 to paste the cover.

18. Connect the airplane power network to the battery.
19. Perform function check of all instruments on the instrument panel.

Note: Function check means doing just a basic check – to verify that the instruments are alive, to check that no unintentional interruption of wiring or damage happened during applying this service bulletin. No special testing of instruments is needed.

20. Install the upper engine cowling on the airplane - see the CR-MM-1-0-00, Point 10.2.1.2.
21. Complete aircraft records to reflect compliance with this service bulletin.

**APPROVAL:**

This SB was approved by:

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