

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-CR-017		Rev.: -
Date: 2014-03-05		
Page: 1 of 7		Date: -

<b>MODEL AFFECTED:</b>	PS-28 Cruiser / SportCruiser / PiperSport
<b>SUBJECT:</b>	Replacement of rivets for bolts in the area of the main landing gear attachment.
<b>AIRCRAFT AFFECTED:</b>	All PS-28 Cruiser, SportCruiser, PiperSport aircraft produced. Serial numbers P1102040, C0272, C0290, C0460, C0472, C0475, C0495, C0496, C0497, C0499, C0500 and up have the subject of this bulletin accomplished.
<b>COMPLIANCE:</b>	Within the next 100 flight hours / annual inspections, whichever occurs first

**DESCRIPTION:**

This Service Bulletin contains instructions for the replacement of rivets for bolts in the area of the main landing gear attachment.

**APPROVAL:**

Replacement of rivets for bolts in the area of the main landing gear attachment is EASA approved as a Minor Change Approval 10048262, dated 25 February 2014.

**AUTHORISATION TO PERFORM:**

US: Repairman (LS-M) or Mechanic (A&P)

Europe & Elsewhere: EASA Part M or Part 145 Maintenance organization.

**REASON:**

During inspection of the some PS-28 Cruiser / SportCruiser / PiperSport aircraft were detected loose rivets in the area of the main landing gear attachment. To address this potential condition, an inspection of the main landing gear attachment area is required.

If evidence of loose rivets is identified, it is necessary to install bolt joint to strengthen load capabilities of the main landing gear attachment area.

**MANPOWER:**

Approximately 16 hours are required to complete this Service Bulletin. Man-hours are based on hands-on time, and may vary with personnel and facilities available.

**SPECIAL TOOLS:**

See accomplished instructions.

**WEIGHT AND BALANCE:**

Not affected.

**ELECTRICAL LOAD DATA:**

Not affected.

**REFERENCES:**

PS-28 Cruiser / SportCruiser Maintenance Manual, CR-MM-1-0-00, CR-MM-1-0-00, Rev. 9.  
SportCruiser / PiperSport Airplane Maintenance Manual, SC-AMM-1-0-00,  
AC 43.12-1B, Acceptable Methods, Techniques, and Practices – Aircraft Inspection and Repair

**PUBLICATIONS AFFECTED:**

PS-28 Cruiser / SportCruiser Maintenance Manual, CR-MM-1-0-00, Rev. CR-MM-1-0-00, Rev. 9.  
SportCruiser / PiperSport Airplane Maintenance Manual, SC-AMM-1-0-00, Rev. Rev. 3.

Czech Sport Aircraft a.s.	<h1>SERVICE BULLETIN</h1>	Czech Sport Aircraft a.s. Na Záhonech 1177/212, 686 04 Kunovice Czech Republic office@czechsportaircraft.com
No. SB-CR-017		Rev.: -
Date: 2014-03-05		
Page: 2 of 7		Date: -



**MATERIAL:**

The following parts are required to comply with this Service Bulletin. Parts can be obtained from aircraft manufacturer or appropriate supplier of aircraft parts.

Item	Name	Part Number	Nomenclature	Quantity	Note
1	Bolt	AN3-4A		12	
2	Nut	AN365-1032		12	
3	Washer	AN960-10		12	

**APPROVAL:**

This SB was approved by:

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

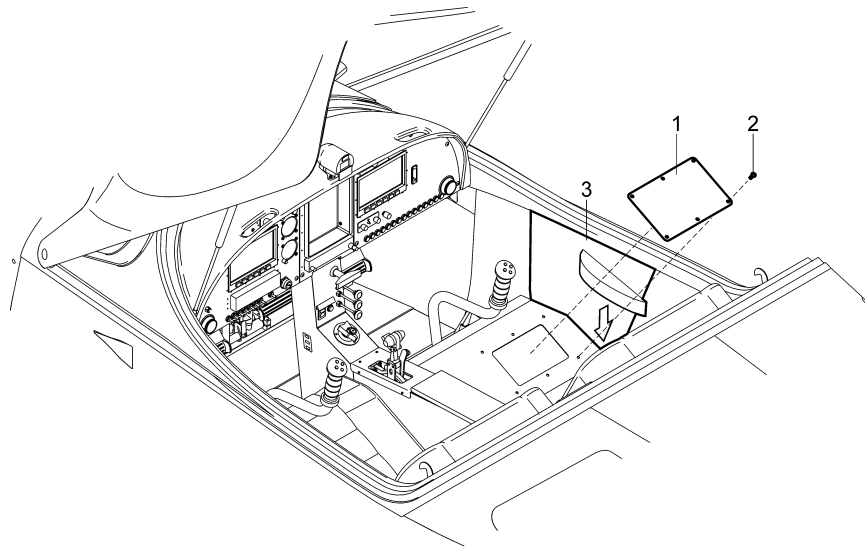
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No. SB-CR-017		Rev.: -
Date: 2014-03-05		
Page: 3 of 7		Date: -

**ACCOMPLISHMENT INSTRUCTIONS:**

NOTE: All dimensions shown in the figures are in millimeters.

- A. Move the aircraft to a place suitable to perform the work.
- B. Remove engine cowlings, disconnect positive battery terminal (see AMM, Chapter 11).
- C. Completely drain fuel system according instructions in the AMM, Chapter 9.5.2.
- D. Remove wings including aileron rod sealing according instructions in the AMM, Chapter 4.3.1.
- E. Remove the aileron control levers behind the seats according instructions in the AMM, Chapter 6.3.8.
- F. Remove bottom part of the seat.
- G. Remove covers (1):
  - 1. Acquire necessary tools, equipment, and supplies:

Description	P/N or Spec.	Supplier	Purpose
Screwdriver	Philips No. 2	Any source	Covers removal



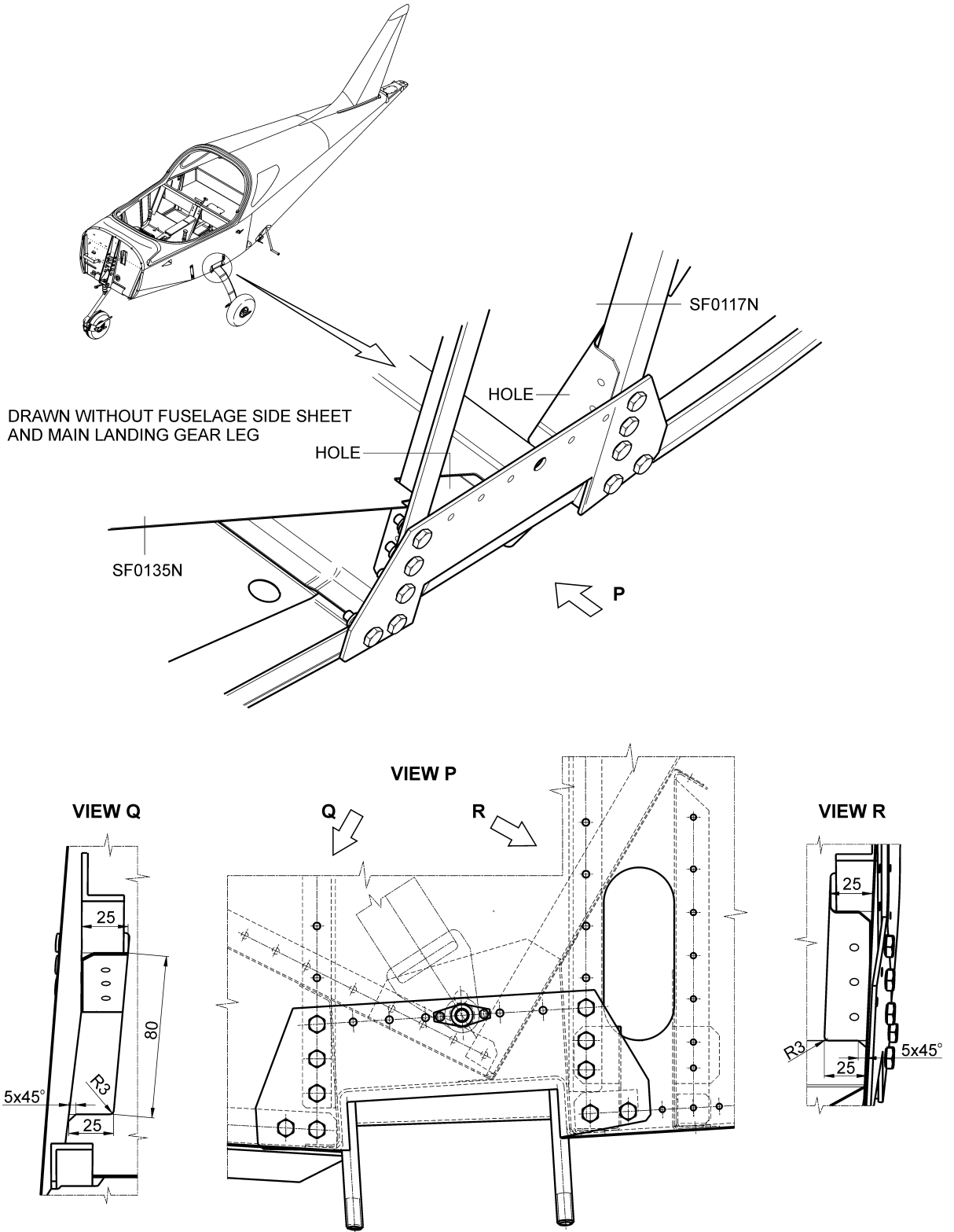
- 1. Cover
- 2. Screw (6 + 6 pcs.)
- 3. Upholstery panel

- 2. Unscrew the screws (2) and remove both covers (1).
- 3. Carefully tear off bottom part of the upholstery panel (3) to a height about 80 mm. Carry out on the both panels.
- H. Remove the outer lap belts according instructions in the AMM, Chapter 7.3.2.
- I. Cut a hole in the bulkhead SF0117N and panel SF0135N to allow access to repair place:
  - 1. Acquire necessary tools, equipment, and supplies:

Description	P/N or Spec.	Supplier	Purpose
Drill bit	diameter 3 mm	Any source	Holes making
Electric drill	-	Any source	
Sheet metal shears	-	Any source	
File	-	Any source	

- 2. Mark the holes contour as per figure.
- 3. Drill the holes around contour of the holes.
- 4. By means of sheet metal shears cut the holes; deburr holes edge.

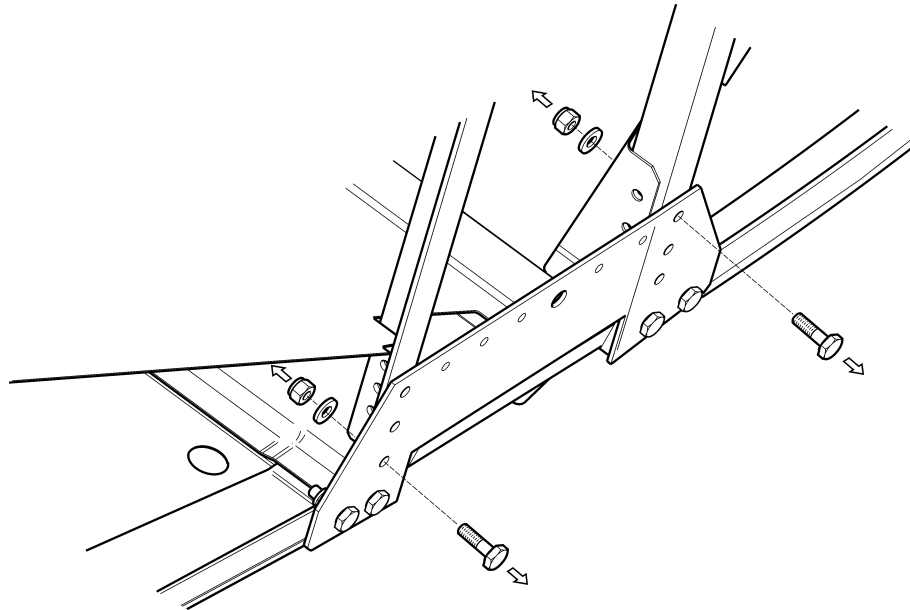
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No. SB-CR-017		Rev.: -
Date: 2014-03-05		
Page: 5 of 7		Date: -

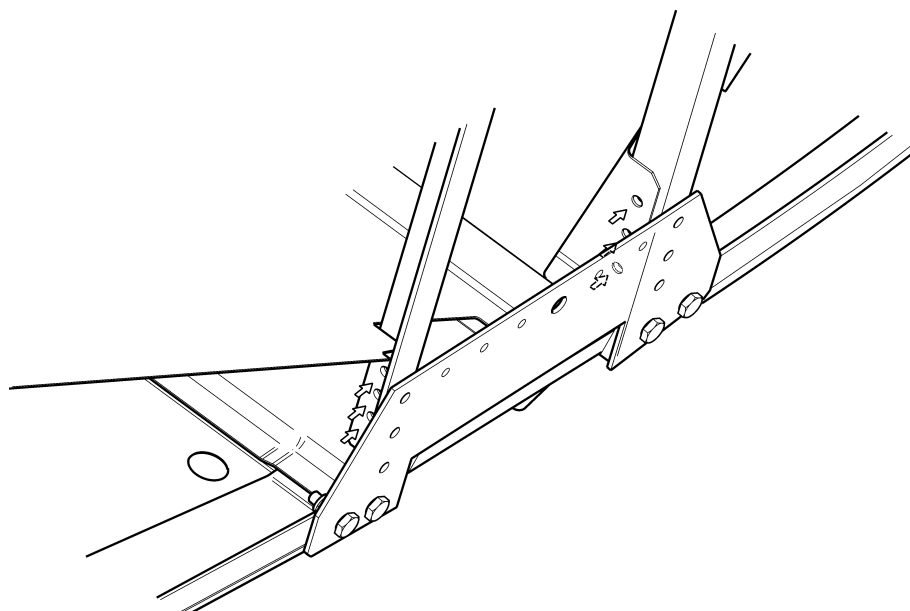
- J. Unscrew and remove the bolts, nuts and washers.  
1. Acquire necessary tools, equipment, and supplies:

Description	P/N or Spec.	Supplier	Purpose
Wrench	3/8 in	Any source	Bolts removal



- K. Using the electric drill with angle driver drill enlarge rivet holes to the diameter 3/16 in.  
1. Acquire necessary tools, equipment, and supplies:

Description	P/N or Spec.	Supplier	Purpose
Drill bit	diameter 3/16 in	Any source	Holes redrilling
Electric drill	-	Any source	
Angle driver drill		Any source	

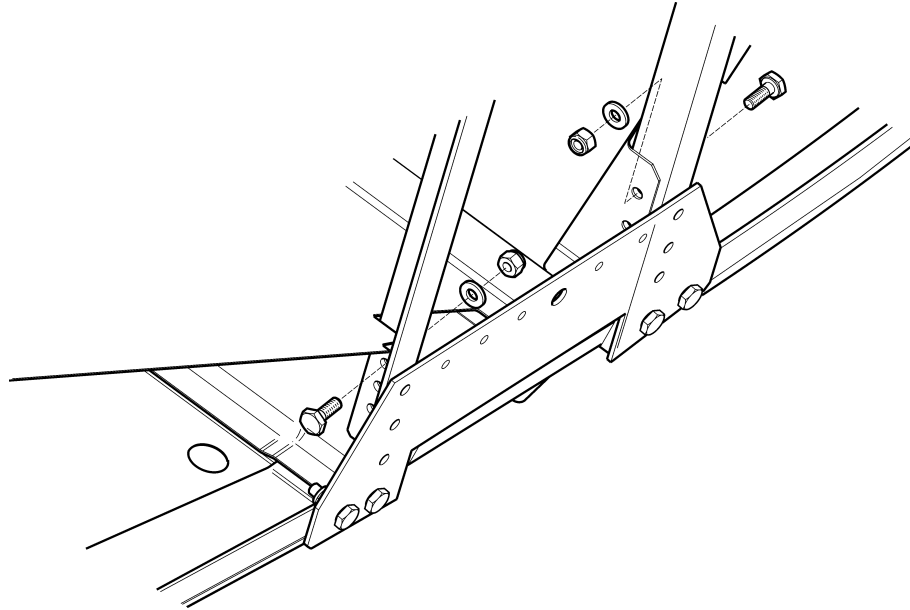


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No. SB-CR-017		Rev.: -
Date: 2014-03-05		
Page: 6 of 7		Date: -

L. Insert the bolts (according figure) to the holes, install washers, screw and tighten nuts with torque 20 – 25 lb in.

1. Acquire necessary tools, equipment, and supplies:

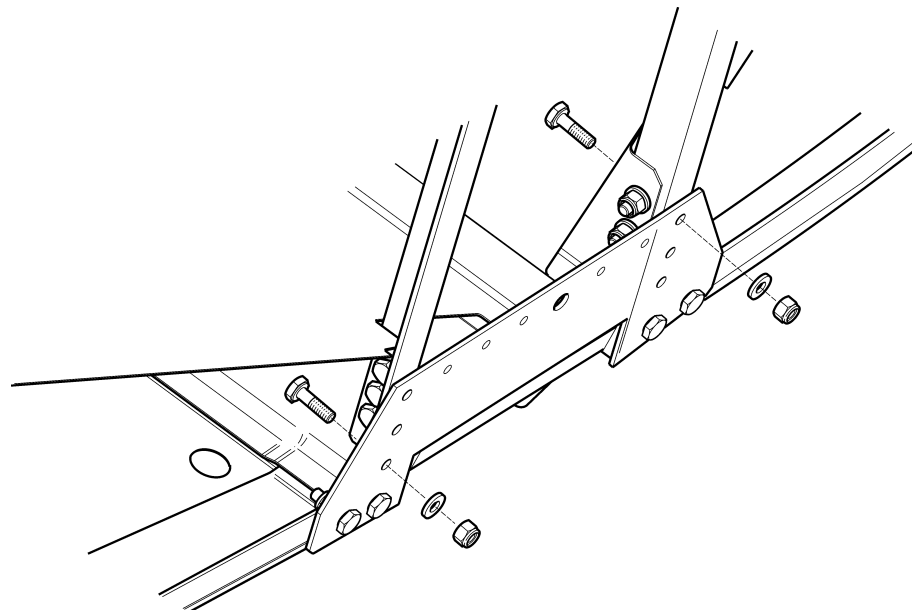
Description	P/N or Spec.	Supplier	Purpose
Wrench	3/8 in	Any source	Bolts installation



M. Insert the bolts (according figure) to the holes, install washers, screw and tighten nuts with torque 20 – 25 lb in.

1. Acquire necessary tools, equipment, and supplies:

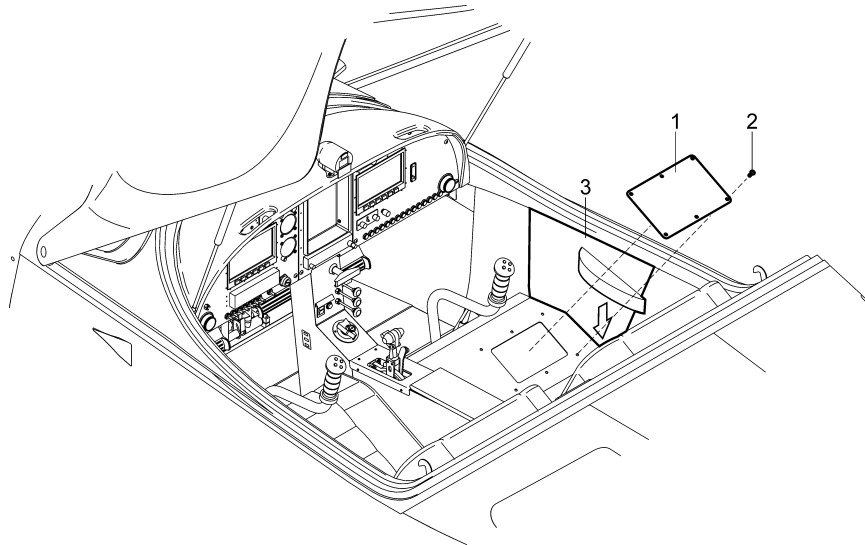
Description	P/N or Spec.	Supplier	Purpose
Wrench	3/8 in	Any source	Bolts installation



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No. SB-CR-017		Rev.: -
Date: 2014-03-05		
Page: 7 of 7		Date: -

- N. Remove the filings by a vacuum cleaner.  
O. Install the outer lap belts according instructions in the AMM, Chapter 7.3.3.  
P. Install covers (1):  
1. Acquire necessary tools, equipment, and supplies:

Description	P/N or Spec.	Supplier	Purpose
Screwdriver	Philips No. 2	Any source	Covers installation



1. Cover
2. Screw (6 + 6 pcs.)
3. Upholstery panel

2. By means of the suitable contact adhesive glue the bottom part of the upholstery panel to the structure.
  3. Put the covers (1) to the appropriate place and fasten them by screws (2).
- Q. Install the aileron control levers behind the seats according instructions in the AMM, Chapter 6.3.9.  
R. Install wings including aileron rod sealing according instructions in the AMM, Chapter 4.3.2.  
S. Install bottom part of the seat.  
T. Restore the aircraft to the airworthy condition.  
U. Update aircraft records to reflect compliance with this SB.