

PS-MM-1-0-00

*Piper Sport*

## MAINTENANCE MANUAL



*PiperSport aircraft is designed and manufactured by*



CZECH  
SPORT AIRCRAFT

Czech Sport Aircraft a.s.  
Na Záhonech 1177/212, 686 04 Kunovice  
Czech Republic

[www.czechsportaircraft.com](http://www.czechsportaircraft.com); [office@czechsportaircraft.com](mailto:office@czechsportaircraft.com)  
Fax: +420 576 519 394, Phone: +420 576 514 034 (Sales Dept.)

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**CHAPTER 3 – FUSELAGE**

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**3.2.5.2 Rear fixed canopy windows**

The rear fixed canopy windows consists of two symmetrical windows (7, Fig. 3-2) riveted and glued on the fuselage side skins.

**3.3 Removal / Installation****3.3.1 Canopy removal**

Type of maintenance: line

Authorization to perform:

- Sport pilot or higher

Tools needed:

- socket wrench 7/16"
- screwdriver
- pliers

**CAUTION:** DURING CANOPY REMOVAL BE CAREFULLY TO AVOID SCRATCHING THE GLASS.

**NOTE:** For canopy removal two persons are requested.

- Open the canopy (1, Fig. 3-4).
- Remove the dummy plugs (3).
- Disconnect upper end of the gas struts (2) on both sides of canopy (1) (see 3.3.3).
- Hold the canopy.
- Unscrew the nuts (5), remove the washers (6) and the bolts (4).
- Carefully remove the canopy (1) and store it in a safe place so that windscreen damage cannot occur.

**3.3.2 Canopy installation**

Type of maintenance: line

Authorization to perform:

- Sport pilot or higher

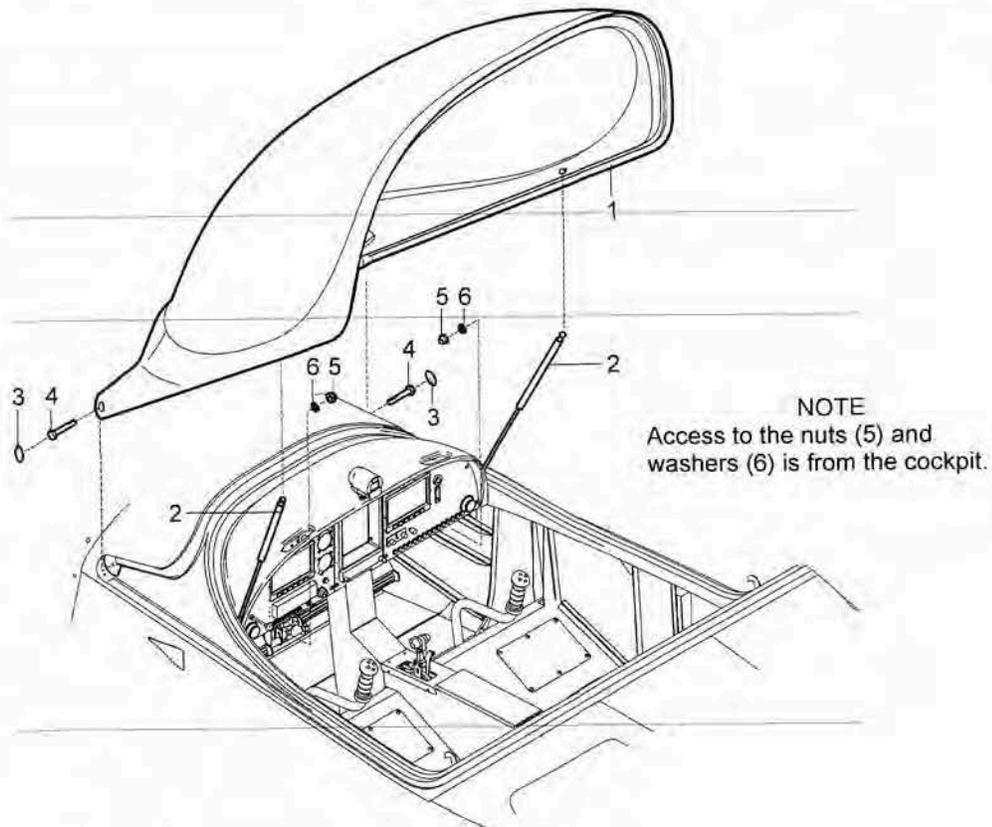
Tools needed:

- Socket wrench size 7/16
- screwdriver
- pliers

**CAUTION:** DURING CANOPY INSTALLATION BE CAREFULLY TO AVOID SCRATCHING THE GLASS.

**NOTE:** For canopy installation two persons are requested.

- Set the canopy (1, Fig. 3-4) on the fixed frame.
- Insert the bolts (4) into the hinges, install the washers (6), screw and tighten the nuts (5).
- Open the canopy (1) and hold it.
- Connect upper end of the gas struts (2) on both sides of canopy (1) (see 3.3.4).
- Install new dummy plugs (3).



- |              |          |
|--------------|----------|
| 1 Canopy     | 4 Bolt   |
| 2 Gas strut  | 5 Nut    |
| 3 Dummy plug | 6 Washer |

**Fig. 3-4:** Canopy removal / installation

### 3.3.3 Gas strut removal

Type of maintenance: line

Authorization to perform:

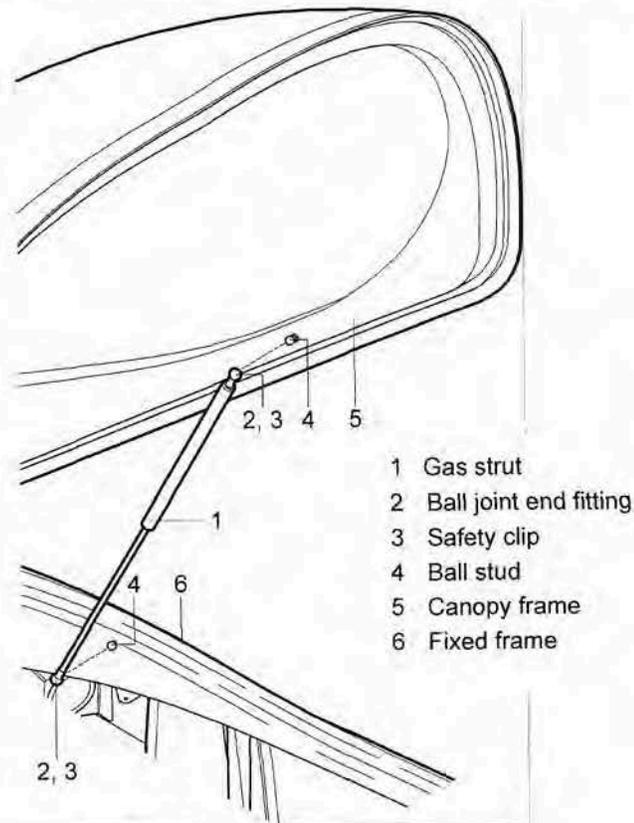
- Sport pilot or higher

Tools needed:

- screwdriver
- pliers

- (a) Open the canopy (5, Fig. 3-5); hold it.
- (b) Remove the safety clip (3) from the ball joint end fittings (2) on the canopy frame (5) and on the fixed frame (6).
- (c) Remove the gas strut (1).

## CHAPTER 3 – FUSELAGE



**Fig. 3-5: Gas strut removal / installation**

### 3.3.4 Gas strut installation

Type of maintenance: line

Authorization to perform:

- Sport pilot or higher

Tools needed:

- pliers

- (a) Inspect the strut (1, Fig. 3-5) whether it is not damaged.
- (b) Insert top ball joint end fitting (2) on the ball stud (4) on the canopy frame (5), and bottom ball joint end fitting (2) on the ball stud (4) on the fixed frame (6)
- (c) Secure the joints with safety clips (3).

### 3.3.5 Cabin lock removal

Type of maintenance: line

Authorization to perform:

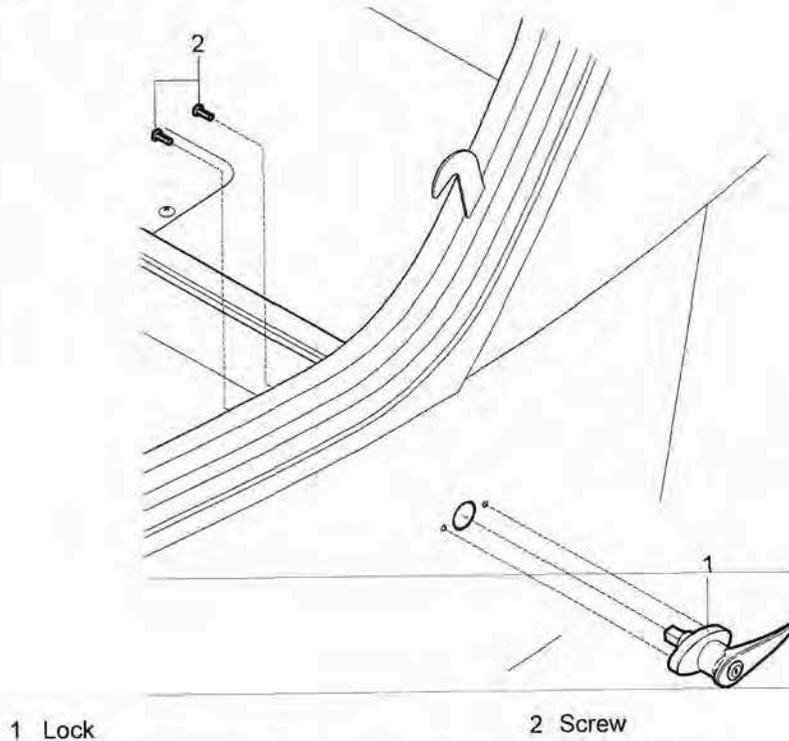
- Sport pilot or higher

Tools needed:

- screwdriver

- (a) Unscrew the screw (2, Fig. 3-6) attaching the lock (1) to the fuselage skin.

(b) Remove the lock (1).



**Fig 3-5:** Canopy lock removal / installation

### 3.3.6 Cabin lock installation

Type of maintenance: line

Authorization to perform:

- Sport pilot or higher

Tools needed:

- screwdriver

(a) Put the lock (1, Fig. 3-6) in to the hole in the fuselage skin.

(b) Screw the screw (3) attaching lock to the fuselage skin.

### 3.4 Check / Adjustment

Adjust the locks so that the canopy could be locked freely.

Set the length of the rod.

## 7.1 General

This is a two-seat cockpit with the side-by-side seat arrangement. The seats are fixed; the rudder control pedals are adjustable. The seats are equipped with safety harnesses. The baggage compartment is located behind the seats and is equipped with straps.

The equipment of PiperSport airplane includes:

- seats
- safety harnesses

## 7.2 Description and operation

### 7.2.1 Seats

Seats (1, Fig. 7-1) of the PiperSport airplane are fixed and are equipped with upholstered cushions attached on Velcro. The seat backs (2) are attached to the bulkhead No. 4 per piano hinge.

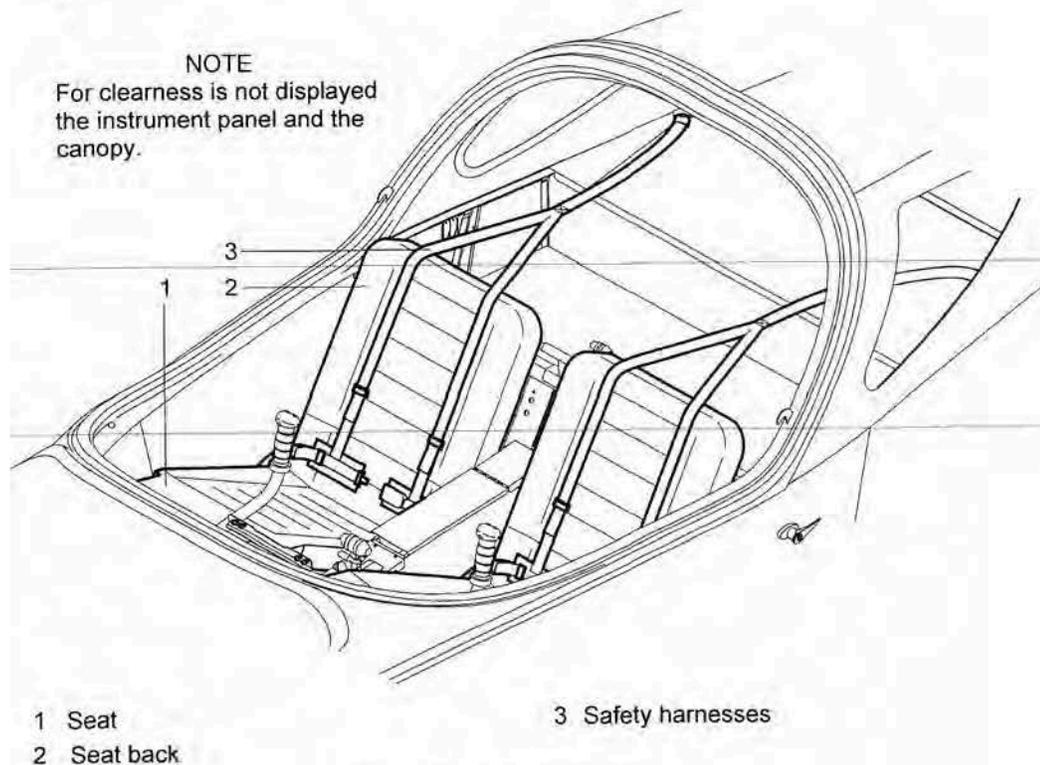


Fig. 7-1: PiperSport cockpit

### 7.2.2 Safety harnesses

Seats are equipped with safety harnesses (3, Fig. 7-1). Safety harnesses consist of two lap belts, two shoulder belts and a safety harness lock. Length of the lap belts and the shoulder belts is adjustable.

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**CHAPTER 7 – EQUIPMENT**

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**7.3 Removal / Installation****7.3.1 Seats removal**

- (a) Remove the seats from the Velcro
- (b) Unscrew the seats together with the piano hinge.
- (c) Seat back is not removable.

**7.3.2 Safety harnesses removal**

Type of maintenance: line

Authorization to perform:

- Sport pilot or higher

Tools needed:

- wrench size 1/2 in

- (a) Unscrew the nut (4, Fig. 7-2), remove the washer (5), bolt (3), bushing (2) and disconnect the shoulder belts bracket (1) from the attachment bracket in baggage compartment.
- (b) Remove the bolt (3), the bushing (2), the washer (5) (only at outer lap belt attachment) and disconnect the lap belt bracket (1) from the attachment point on the fuselage / central console side.

**7.3.3 Safety harnesses installation**

Type of maintenance: line

Authorization to perform:

- Sport pilot or higher

Tools needed:

- wrench size 1/2 in

- (a) Gradually put the bushing (2, Fig. 7-2), lap belt bracket (1), washer (5) (only at outer lap belt attachment) on the bolt (3); screw the bolt into the attachment point on the fuselage / central console side.
- (b) Put the bushing (2) and shoulder belts bracket (1) on the bolt (3), insert the bolt into the attachment bracket in baggage compartment, insert the washer (5), screw and tighten the nut (4).

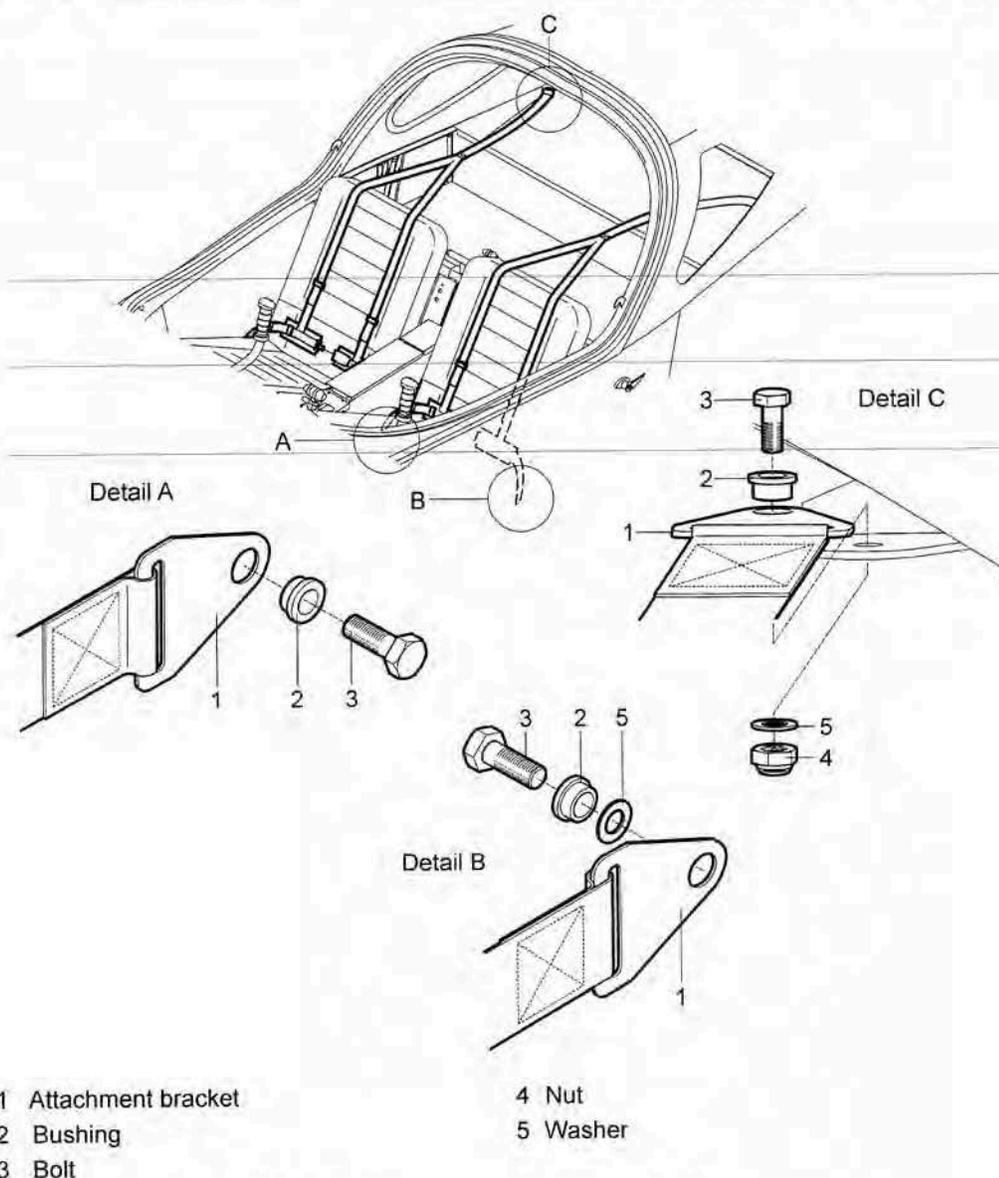


Fig. 7-2: Safety harnesses removal / installation

## 7.4 Check / Adjustment

### 7.4.1 Checking of safety harnesses

Check harnesses surface for any damages. Check the lock system function. Check the attachment points of shoulder and side harnesses for any damages or corrosion.

## 7.5 Exchanges / Service information

### 7.5.1 Cleaning seat covers and upholstery

- (a) Take upholstery and covers out of the airplane.
- (b) Brush impurities, possibly clean with warm water with addition of a suitable detergent.
- (c) Before reinstalling upholstery and seats in the airplane, let it thoroughly dry.