

## 1. System of canopy lock with safety latch and sensor

The aircraft may be equipped with a canopy lock socket with safety latch and sensor (Fig. 1) installed in the fuselage. The yellow check lamp "CANOPY" illuminates on the instrument panel when the canopy is partially locked (the latch is plugged-in less than  $5\text{ mm} \pm 0.3\text{ mm}$ ).

### 1.1. Canopy lock socket with safety latch and sensor

Disassembling:

- a) Drill out the rivets (3, Fig. 1).
- b) Release the cable (7, Fig. 2) from the clips (8) in the fuselage.
- c) Remove the canopy lock socket (1, Fig. 1) from the fuselage (2).
- d) Pull out the cable, remove insulation (6) and unsolder the wires (4, 5).

Assembling:

- a) Pull the insulation (6, Fig. 1) on the cable (5), solder the wires (4, 5) according to wiring diagram (Fig. 5).
- b) Place and apply heat to shrink the insulation (6, Fig. 1).
- c) Pass the cable (7, Fig. 2) to the right through the fuselage stiffener and central tunnel to the instrument panel.
- d) Place the canopy lock socket (1, Fig. 1) on the fuselage (2) and attach it by rivets (3).
- e) Fix the cable (7, Fig. 2) to the fuselage and other electrical installation by means of clips (8) and cable ties (9).
- f) Connect the cable (7) to the check lamp and circuit breaker acc. to wiring diagram (Fig. 5).
- g) Adjust the system according to chapter 1.4.

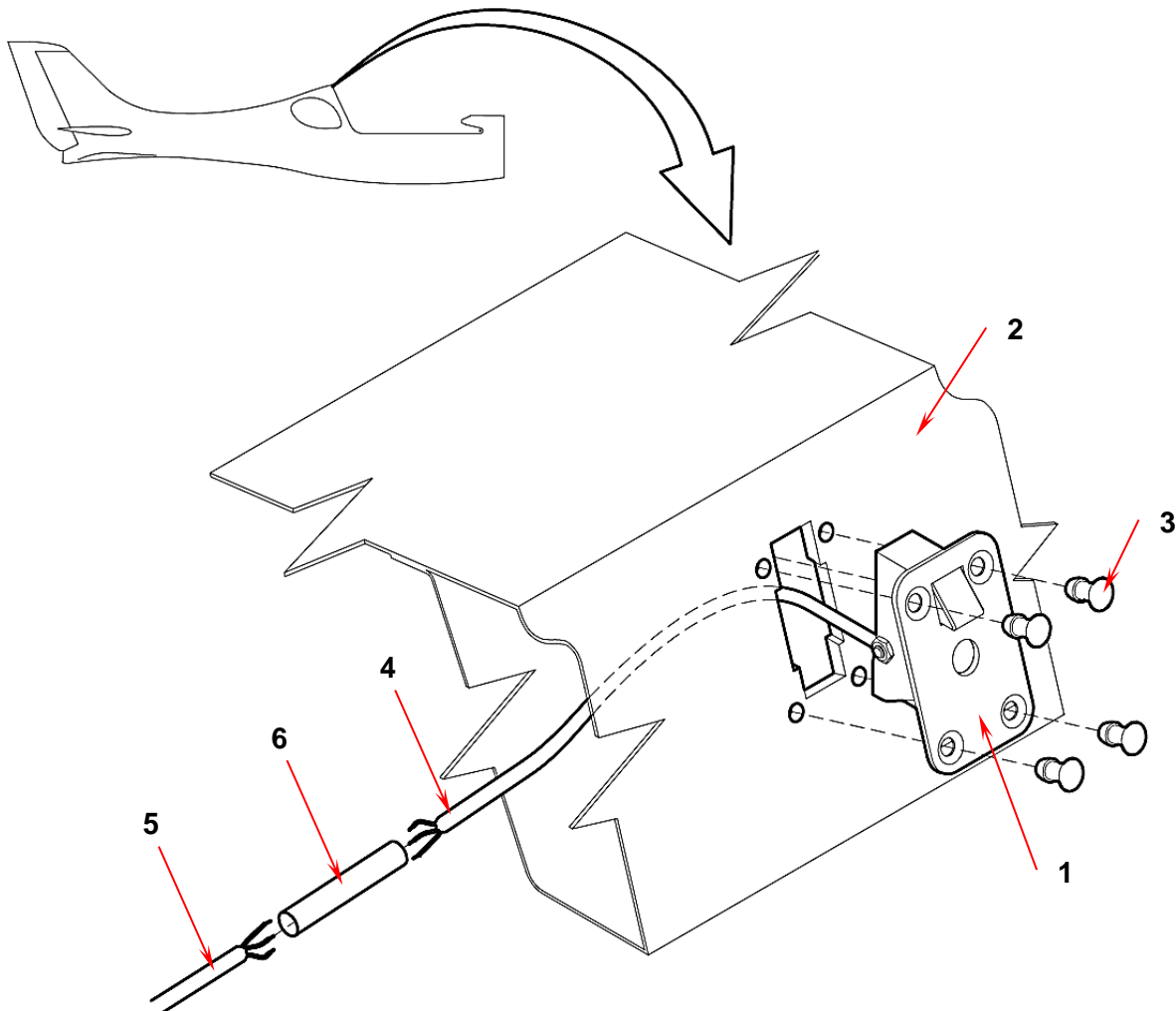


Fig. 1

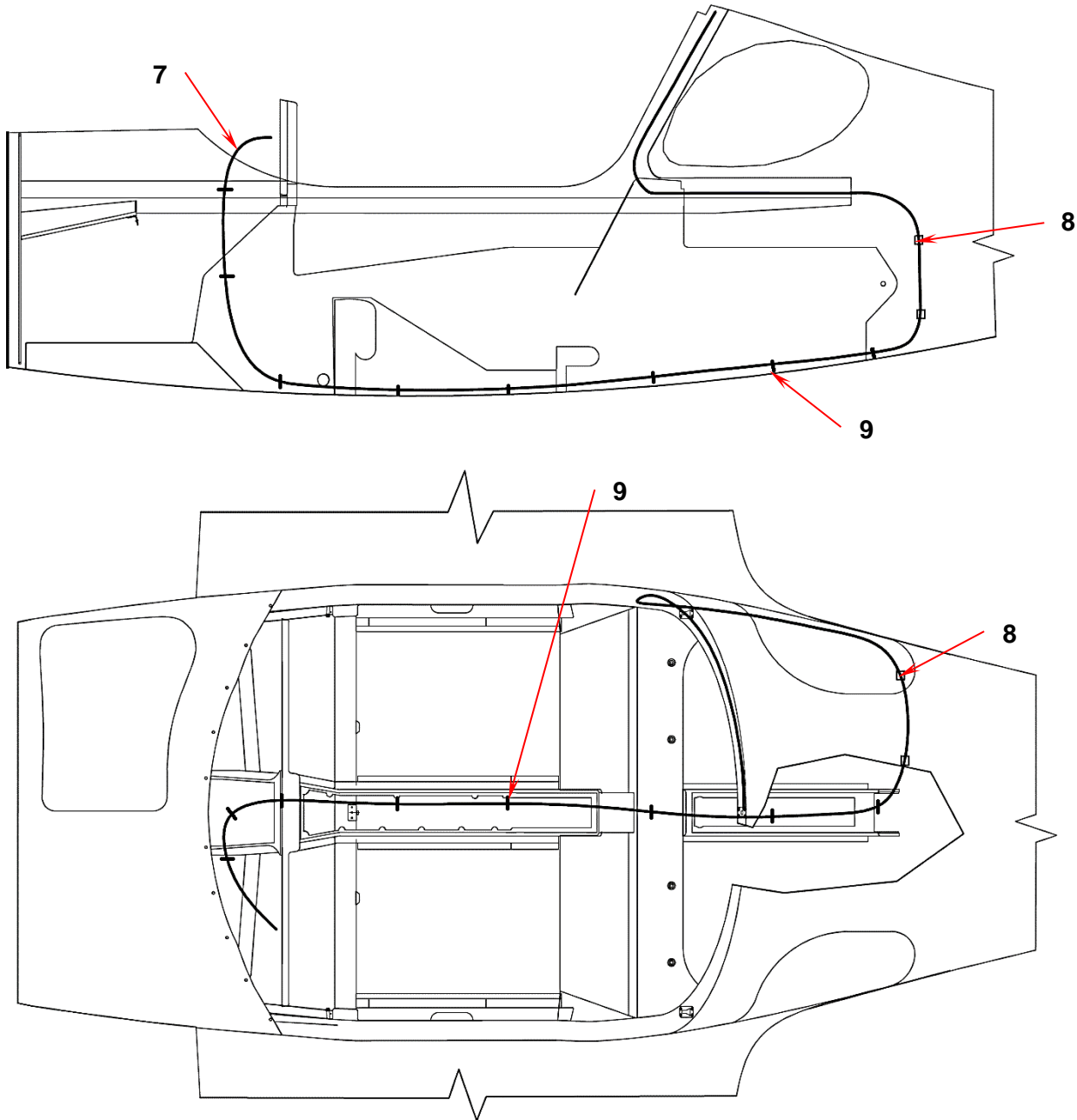


Fig. 2

## 1.2. Disassembling / assembling of canopy lock socket with safety latch and sensor

### Disassembling:

- a) Remove the canopy lock socket (1, Fig. 1) according to chapter 1.1.
- b) Remove screw (1, Fig. 3), spring (2) and safety latch (3) from the canopy lock socket body (4).
- c) Remove nuts (5), screws (6) and polyamide lining (7).
- d) Remove the sensor (8).
- e) Remove circlip ring (9), screw (10), spring washer (11) and remove the sensor holder (12).

### Assembling:

- a) Pull the spring washer (11, Fig. 3) on screw (10), insert into the canopy lock socket body (4) and secure by circlip ring (9). Pay attention to correct position of spring washer (11, Fig. 4).
- b) Place the sensor (8, Fig. 3), slip on the sensor holder (12) and screw it partially on the screw (10).
- c) Place the polyamide lining (7), attach it by screws (6) and nuts (5). Secure the nuts (5) using Loctite 243.
- d) Place the safety latch (3) with a spring (2) into canopy lock socket body (4) and attach it by screw (1) secured by Loctite 243. Tighten the screw (1) until the safety latch (3) overlaps the surface of canopy lock socket body (4) about 5 mm (see Fig. 4).
- e) Install the canopy lock socket (1, Fig. 1) according to chapter 1.1.

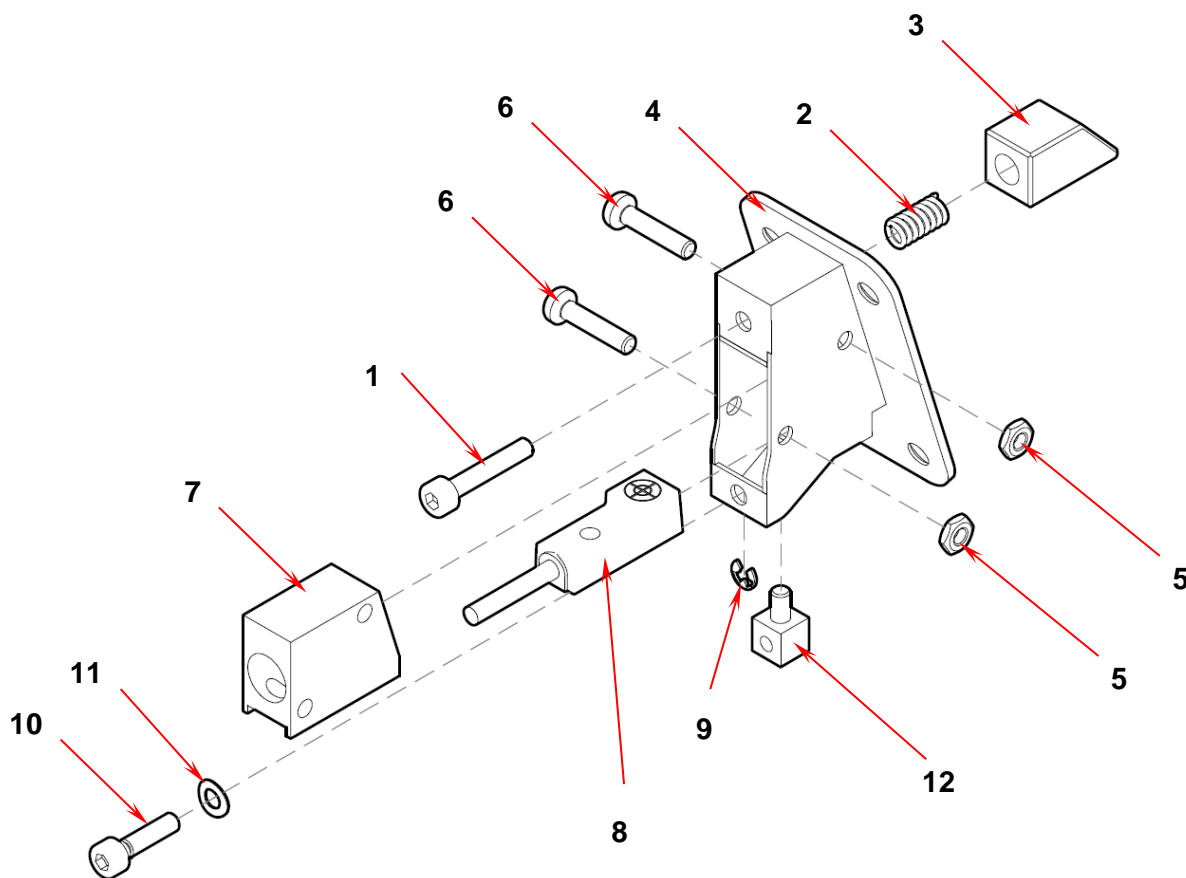
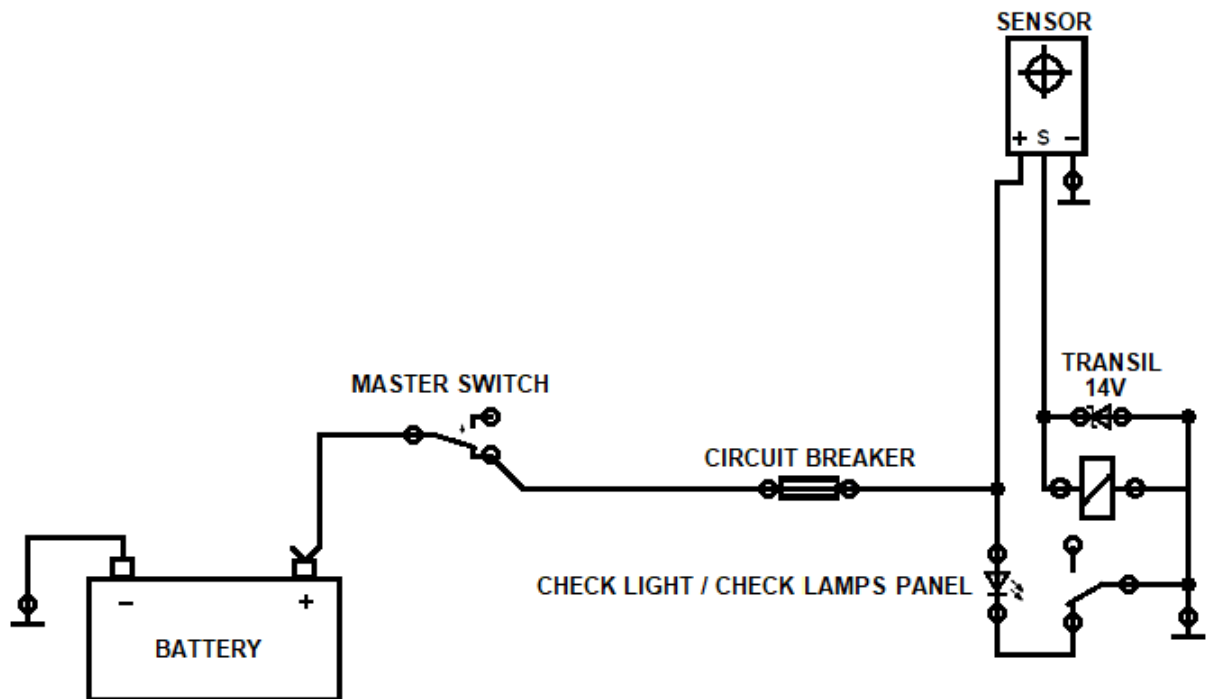
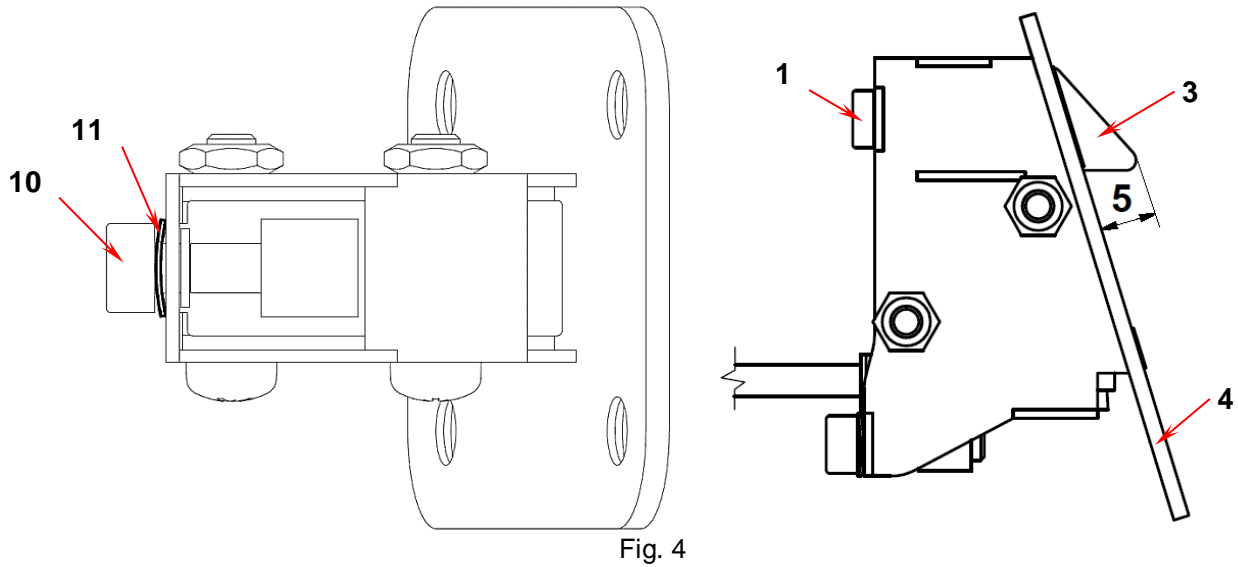


Fig. 3



**1.3. Protective plate of canopy frame**

Removal:

- a) Peel off the protective plate (1, Fig. 6) from the canopy frame (2) and remove it.

Installation:

- a) Degrease the bonding surfaces of protective plate (1, Fig. 6) and canopy frame (2).  
b) Bond the protective plate (1) on the canopy frame (2) using adhesive Araldite 2022-1 in the position according to main latch (3).

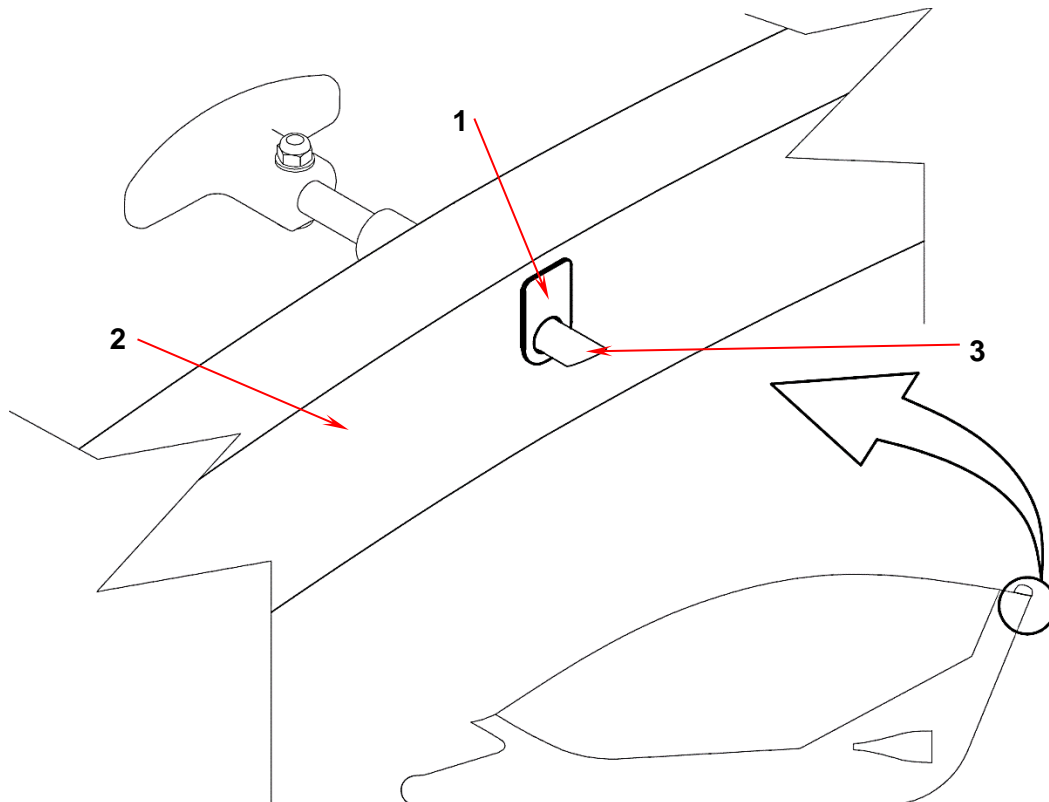


Fig. 6

**1.4. Sensor adjustment**

The aircraft must stand on its landing gear during adjustment of sensor!

Adjustment:

- Close the canopy.
- Set the main latch (1, Fig. 7) to the reference position i. e. closely to the entry hole of canopy lock socket (2).
- Plug-in the main latch (1)  $5 \pm 0.3$  mm deep into the canopy lock socket (2) and fix it in this position.
- By means of adjusting screw (3) and Allen key 2.5 mm (4) adjust the sensor position (5) to trigger the check lamp in this position of main latch (1).
- After adjustment check the function of system.

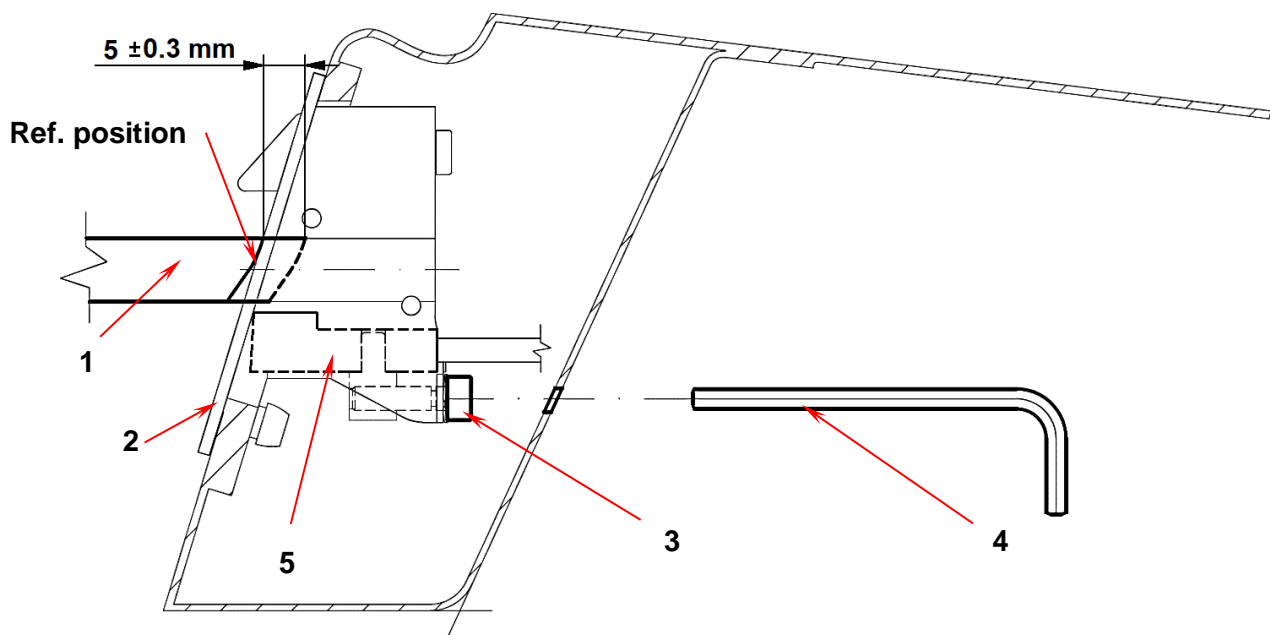


Fig. 7



**APPENDIX 3**  
**SUPPLEMENT TO MAINTENANCE**  
**MANUAL**  
DV WT9 10B / 2019, Rev. 0

Sheet: 7  
Sheets: 7

## 2. Periodical inspections

Event	Description	Inspection after			Carried out by	Inspected by
		25 hr.	50 hr.	100 hr. / once a year		
1	<b>Fuselage</b>					
1.1	Only aircraft equipped with canopy lock with safety latch and sensor: Check the condition of canopy lock socket, function and operation of safety latch. Check the function of check lamp signalisation.	*		*		