

# AEROPRAKT INFORMATION BULLETIN

## INSPECTION AND REINFORCEMENT OF THE FUSELAGE OF A-22 AIRCRAFT. IB A-22-02

### **MANDATORY**

#### **Repeating symbols:**

Please, pay attention to the following symbols throughout this document emphasizing particular information.

▲ **WARNING:** Identifies an instruction, which if not followed may cause serious injury or even death.

■ **CAUTION:** Denotes an instruction, which if not followed, may severely damage fuselage.

◆ **NOTE:** Information useful for better handling.

#### **1) Planning information**

##### **1.1) Aircraft affected**

All versions of the aircraft Aeroprakt-22 beginning №01 to №70.

##### **1.2) Reason**

It has been found out, that the reason of the cracks in the diaphragms is the fatigue failure due to aircraft operation on airfields with uneven surface.

##### **1.3) Subject**

Inspection and reinforcement of the diaphragm or its replacement for a reinforced diaphragm in case if cracks are detected.

##### **1.4) Compliance**

Inspection of the diaphragm is to be carried out regardless of period of operation.

##### **1.5) Approval**

The technical content of this Information Bulletin has been approved by Aeroprakt

##### **1.6) Manpower**

Estimated man-hours:

Retrofit work according to the section 3.1.1 can be performed within an hour, according to section 3.1.2 within 5 hours

##### **1.7) Mass data**

Change of weight - none

##### **1.8) Other publications affected**

None

##### **1.9) Spare parts**

Spare parts are sent upon requirement of aircraft owner.

## 2) Replacement part information

### 2.1) Replacement part – cost and availability

The price of repair kit according to the section 3.1.1 is 20 EUR, and according to section 3.1.2 is 80 EUR, excluding delivery

### 2.2) Special tooling / primer

For section 3.1.1: wrench set, primer.

For section 3.1.2: wrench, drills: Ø3.1, Ø4.1, Ø5.7, Ø7.7; reamers: Ø6H7, Ø8H7; power drill; pop-riveter; primer.

## 3) Accomplishment / Instructions

### 3.1) Instructions

Inspect right and left diaphragms (item 1, 2 on fig.1) for absence of cracks.

When there are no cracks follow instructions of section 3.1.1. In case when there are cracks follow instructions of section 3.1.2.

#### 3.1.1) Installation of reinforcing diaphragm

*The work is carried out according to fig. 2.*

- 1) Remove the bolts (item 5);
- 2) Install the replacement bolts (longer ones) and reinforcing diaphragms (items 3, 4) with primer;

#### 3.1.2) Replacement of the diaphragm

*The work is carried out according to fig. 3.*

- 1) Remove the bolts (item 2, 3, 7) drill out the rivets (item 4, 5, 6);
- 2) Remove the diaphragms (item 1, 2), install the new reinforced diaphragms using temporary screws;
- 3) Fasten the diaphragms with Ø4 stainless steel flush pop-rivets (item 4); Ø3 aluminium pop-rivets (item 5); Ø4 aluminium pop-rivets (item 6);
- 4) drill close-tolerance Ø6 holes for bolts (items 3, 7) and close-tolerance Ø8 holes D8 for bolts (items 2) ;
- 5) install bolts (items 2, 3, 7) with primer;

■ **CAUTION:** Do not forget to install the strut attachment fittings (item 8, 9).

#### 4) Appendix

The following drawings contain additional information:

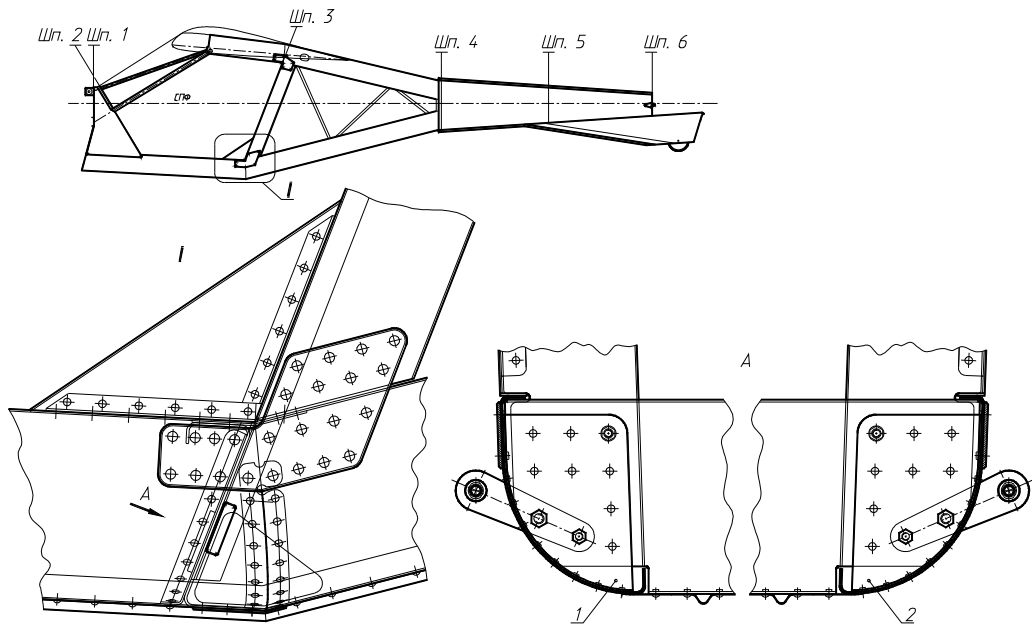


Fig. 1

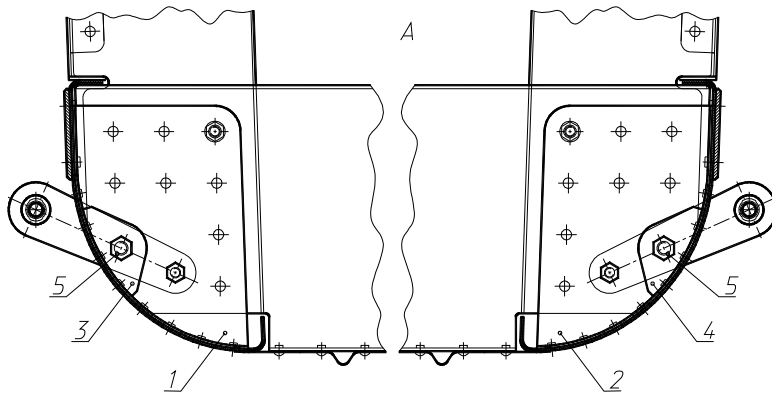


Fig. 2

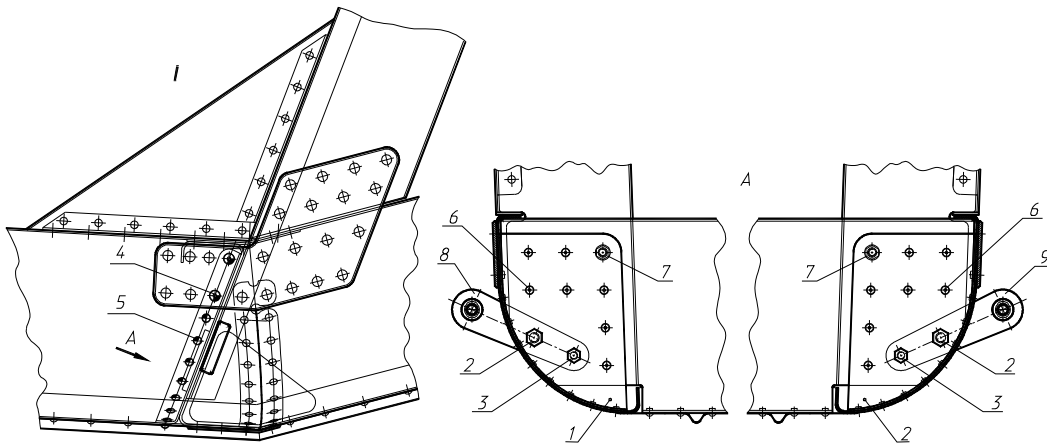


Fig. 3