

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 10 USD, and according to section 3.1.2 is 40 USD, 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:

