

# AEROPRAKT INFORMATION BULLETIN

## INSPECTION AND REINFORCEMENT OF THE RIVET JOINTS OF THE RIBS N.3 AND N.4 OF THE WING OF A-22 AIRCRAFT. IB A-22-03

### **MANDATORY**

#### **Repeating symbols:**

Please, pay attention to the following symbols throughout this document marking important 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 wing.
- ◆ **NOTE:** Information useful for better handling.

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

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

All versions of Aeroprakt-22 aircraft beginning from №60 to №103 and №106.

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

Fatigue failure of rivet heads due to cyclic loads was detected on the bottom side of the wing forward of the spar in the rivet joints of ribs №3 and №4.

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

Rivet joints of the wing rib №3 and №4 of A-22 aircraft.

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

Reinforcement of the rivet joints has to be carried out regardless of the aircraft flight time.

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

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

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

Estimated man-hours:

Retrofit work can be performed within thirty minutes.

### 1.7) Mass data

Change of weight - none

### 1.8) Other publications affected

None

## 2) Special tooling / lubricants

Powered drill, pop-riveter.

## 3) Accomplishment / Instructions

### 3.1) Instructions

Inspect right and left wings for damage of the rivet joints of ribs №3 and №4 (see fig.1). If no damage detected perform retrofit work according to section 3.1.1. In case of missing rivets or rivet joint damage in form of cracks in paint around the rivet heads perform the work according to section 3.1.2.

#### 3.1.1) Reinforcement of the rivet joint

- 1) Mark the position of additional rivets;
- 2) drill Ø2.5 holes using the made marks;
- 3) remove the chips;
- 4) install the pop-rivets Ø2.4x4 BRALO; code: 01010002402 or any similar in strength rivets (shearing strength 41kg);
- 5) apply paint over the new rivets.

#### 3.1.2) Reinforcement of the rivet joint

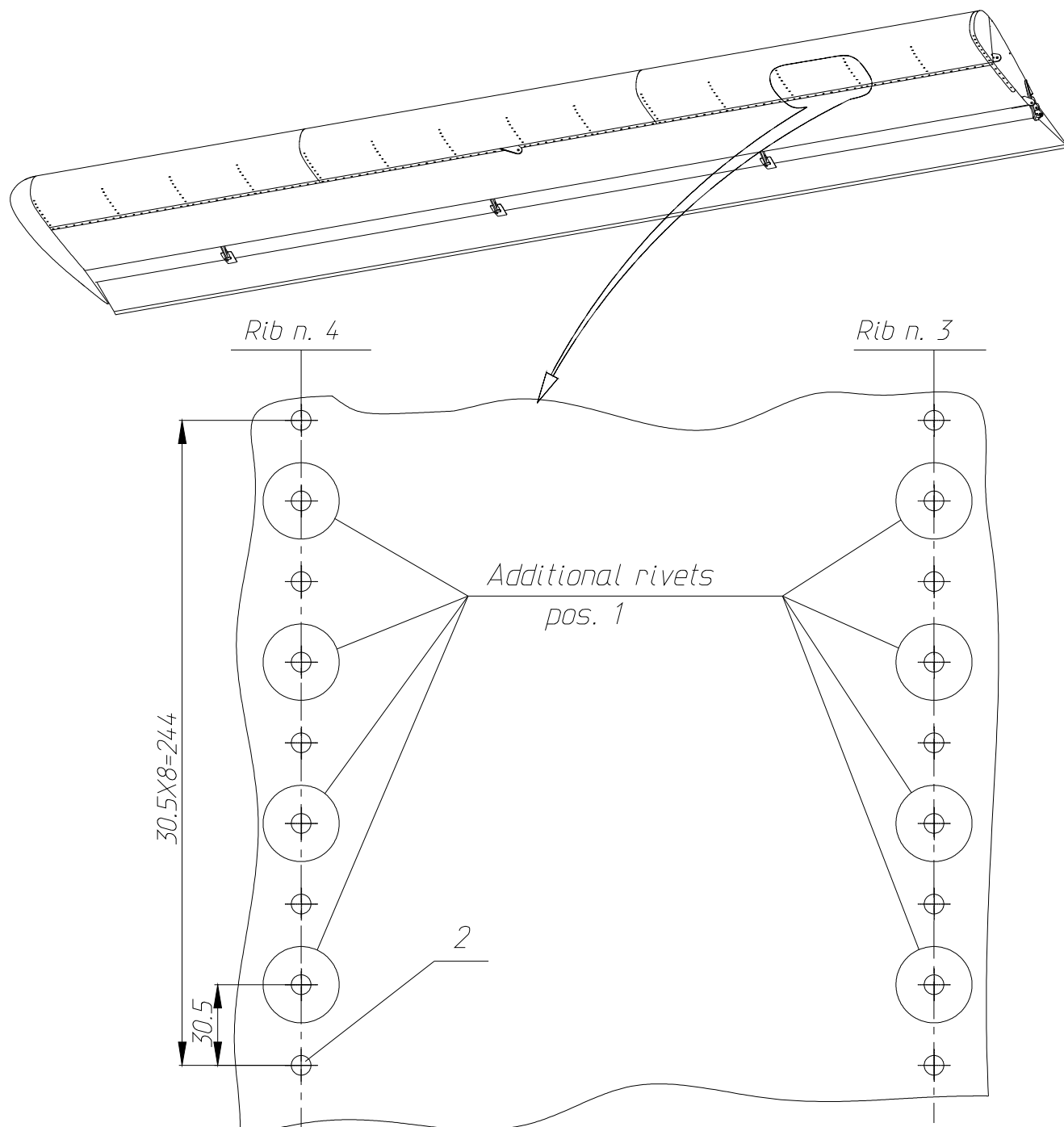
- 1) Drill out old rivets (item 1) using Ø2.5 drill (remove the rivet cores beforehand) and remove the chips;
- 2) mark the position of additional rivets;
- 3) drill Ø3.1 holes using made marks;
- 4) remove the chips;
- 5) install the pop-rivets Ø3x6 BRALO; code: 01010003006 or any similar in strength rivets (shearing strength 41kg);
- 6) apply paint over the new rivets.

#### 3.1.3) Inspection of the wing leading edge.

Inspect the wing

■ **CAUTION:** In case if the reinforcement of the specified joints of the ribs with the LE skin is not done in time, the remaining joints will fail, which later may cause collapse of the wing leading edge.

#### 4) Appendix



The following drawings contain additional information: