

# **AEROPRAKT SERVICE BULLETIN**

## **№ SB A22LS-19**

### **REPLACEMENT OF THE NOSE WHEEL FORK HINGE BRACKET OF A22LS AND A22L2 AIRCRAFT**

#### **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 cause severe damage.
- ◆ **NOTE:** Information useful for better handling.

**Release date: 23.12.2019**

**Effective date: 23.12.2019**

**Completion date:**

**Superseded notice: none**

**Model: A22LS and A22L2**

**Serial number(s) affected: All A22LS aircraft to and including serial No. 370**

**and all A22L2 aircraft from serial No. 351 to and  
including serial No. 598**

## 1) Planning information

### 1.1) Aircraft affected

All A22LS aircraft to and including serial No. 370, all A22L2 aircraft from serial No. 351 to and including serial No. 598, and all other A22L2 aircraft which have trailing-link type nose landing gear that replaced the telescopic type.

### 1.2) Reason

In conditions of high humidity and insufficient lubrication of the inner surface of the bracket hole (see photo 1) in the area of contact with the steel bolt, intergranular corrosion may appear, which affects significantly the bracket strength and may cause its disintegration.



**Photo 1**

**If case if the intergranular corrosion is detected in the bracket, stop operation of the aircraft until replacement of the bracket.**

▲ **WARNING:** Non-accomplishing this work may result in disintegration of fuselage and death of the pilots.

### 1.3) Subject

Aluminium bracket of nose wheel fork attachment to the nose strut.

### 1.4) Compliance

Compliance with this Service Bulletin is mandatory for all affected aircraft for flight safety reasons!

### 1.5) Approval

The technical content of this Service Bulletin has been approved by Aeroprakt.

### 1.6) Manpower

Estimated work: 1 man-hour.

**1.7) Mass data**

Mass change – insignificant.

**1.8) Revision of other documents**

None.

**1.9) Spare parts**

New nose wheel hinge bracket.

**2) Spare parts information**

Price of the kit including a modified bracket and a new bolt is 106 Euro, not including the cost of delivery.

**3) Accomplishment / Instructions**

▲ **WARNING:** Non-accomplishing this work may result in disintegration of nose wheel strut.

3.1) In case if the nose wheel spat is installed (Photo 2), do the following actions:



**Photo 2**

If the nose wheel spat is not installed, start the replacement from the step 3.6.

3.2) Remove the split pin locking the nut of the upper bolt attaching the shock absorber (Photo 3).



**Photo 3**

3.3) Remove the split pin locking the nut of the bolt attaching the wheel fork to the strut (Photo 4).



**Photo 4**

3.4) Undo the nut of shock absorber attachment using a 9/16 wrench (Photo 5).



**Photo 5**

3.5) Undo the nut of wheel fork attachment to the strut using the 9/16 wrench (Photo 6).



**Photo 6**

3.6) Remove the bolt attaching the wheel fork to the strut (Photo 7).



**Photo 7**

3.7) Remove the bolt attaching the shock absorber (Photo 8).



**Photo 8**

3.8) Undo 2 side bolts attaching the wheel spat to the wheel fork (Photo 9).



**Photo 9**

3.9) Undo 2 upper bolts attaching the wheel spat to the wheel fork (Photo 10).



**Photo 10**

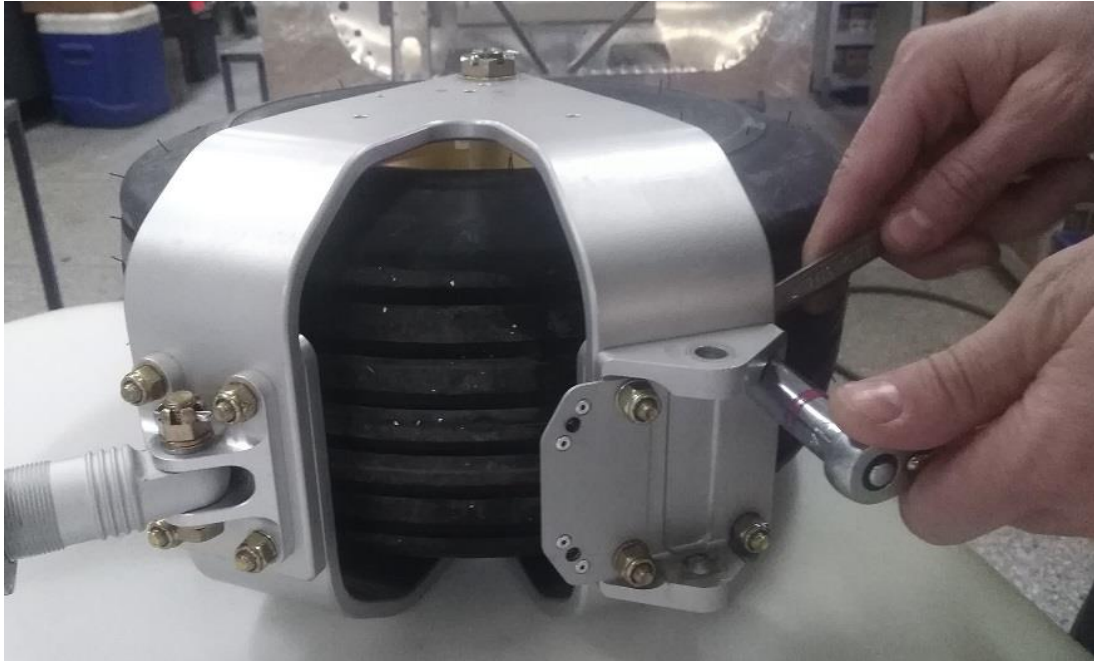
3.10) Remove the wheel spat up. Pass the shock absorber through the hole (Photo 11).



**Photo 11**



3.11) Undo the nuts attaching the bracket to the wheel fork (Photo 12).



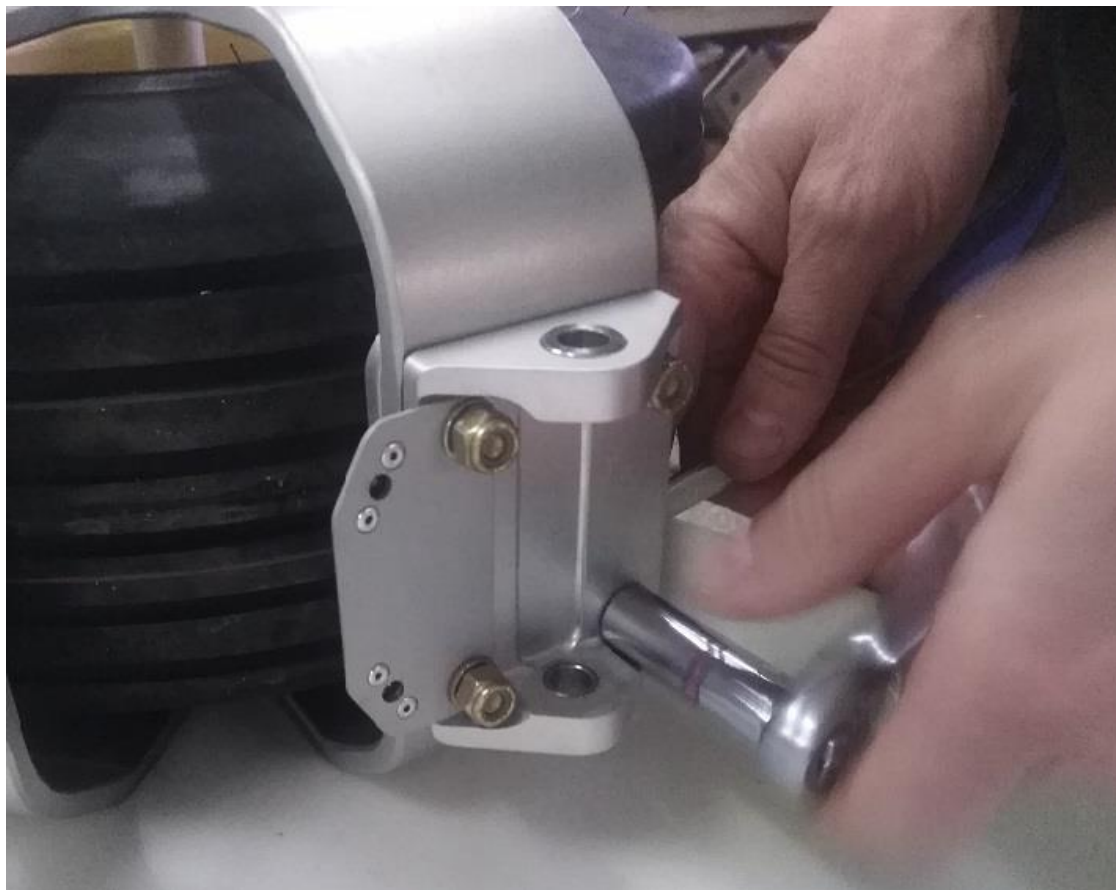
**Photo 12**

3.12) The bolts attaching the bracket may be left in place (Photo 13).



**Photo 13**

3.13) Install the new bracket and tighten the nuts (Photo 14).



**Photo 14**

3.14) Perform the following installation in the reversed order.