

AEROPRAKT INFORMATION BULLETIN

MODERNIZATION OF THE MAIN LANDING GEAR LEGS FOR A-22LS AND A-22L2 AIRPLANES. IB A-22LS-02

RECOMMENDED

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.

1) Planning information

1.1) Aircraft affected

All versions of Aeroprakt-22LS airplanes series No. 1-42, 49 and Aeroprakt-22L2 airplanes series No. 345, 350, operated on hard surface runways.

1.2) Reason

It was found out that an energetic braking on a hard surface runway causes resonance vibration of the main landing gear legs. The vibrations in their turn cause elastic oscillations of the bottom fuselage skin in the area of the outer lower attachment fitting of the main landing gear leg, which may result in fatigue cracks in the rear web of the transverse beam of the main landing gear attachment. To prevent the main landing gear legs from vibrating and thus exclude the fatigue cracks it is recommended to install the new modernized main landing gear leg springs with modified stiffness parameters, which significantly reduce the tendency of the main landing gear legs to vibrate in case of energetic braking.

1.3) Subject

Main landing gear leg springs

1.4) Compliance

It is recommended to install the new modernized springs of the main landing gear legs instead of the old ones in the above mentioned airplanes if they are operated on hard surface runways

1.5) Approval

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

1.6) Manpower

Estimated man-hours:

Work according to p. 3.1.1 is performed within 3 hours.

1.7) Mass data

Weight change: -1 kg.

1.8) Revision of other documents

None

Spare parts information

2.1) Spare parts cost

The new modernized springs of the main landing gear legs are supplied by Aeroprakt for 400 Euro a pair (right and left springs) less cost of delivery.

2.2) Special tooling / materials

Set of wrenches

2) Accomplishment / Instructions

3.1) Instructions:

3.1.1) Spring replacement

The procedure of removal/installation of the main landing gear leg springs is described in subsection 3.3 of the Aircraft Maintenance Manual (A22LS-AMM-01).