

AEROPRAKT

SERVICE BULLETIN

No. SB A-22LS-26

UPGRADE OF A-22LS FLEET IN GERMANY TO TYPE DESIGN PER TYPE CERTIFICATE DATA SHEET No. 991-22 1

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: 19.12.2022

Effective date: 19.12.2022

Completion date:

Superseded notice: none

Model: A-22LS

**Serial number(s) affected: A-22LS aircraft serial No. 329, 338, 342, 352, 355, 360,
361, 375, 380, 390, 396, 402, 407, 425 and 429**

1) Planning information**1.1) Aircraft affected**

A-22LS aircraft serial No. 329, 338, 342, 352, 355, 360, 361, 375, 380, 390, 396, 402, 407, 425 and 429.

1.2) Reason

Limitations per A-22L2 type certificate No. 799-10 1 issued 23.09.2010 and No. 799-10 2 issued 23.09.2010 last revised 25.11.2015 (for MTOW of 472,5 kg per LTF-UL 2003) set temporarily for the German fleet of A-22LS aircraft reinforced to MTOM 600 kg, may be expanded to the limitations set per A-22LS type certificate No. 991-22 1 dated 12.08.2022.

1.3) Subject

Bringing the A-22LS aircraft to compliance with the type design per type certificate No. 991-22 1.

1.4) Compliance

Compliance with this Service Bulletin is recommended for the affected aircraft to allow their operation under the regulations for ultralight aeroplanes (LTF-UL 2019).

1.5) Approval

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

1.6) Manpower

Estimated work: modification according to the paragraph 3 can be done within 1 hour.

1.7) Mass data

Mass change – insignificant.

1.8) Revision of other documents

Pilot Operating Handbook has to be replaced for new version (supplied by the local dealer).

1.9) Spare parts

A set of new parts is supplied by local dealer.

2) Spare parts information**2.1) Spare parts price**

Spare parts kit is supplied to the local dealer free of charge.

2.2) Fees

- Changing of the registration certificate: 50 € + 7 % or 19 % VAT (member of DULV/non-member)
- Changing of the noise certificate: 35 € + 7 % or 19 % VAT (member of DULV/non-member)
- Issue of the conformity certificate (Stückprüfschein): 60 € (+ tax if applicable)
- Handling fee 75 € (+ VAT, if applicable)

2.3) Special tools / primer

None.

3) Accomplishment / Instructions

3.1) Install rudder pedals loader

The rudder pedal loader consists of two rubber cords, connecting the outboard rudder pedals to fuselage beams. Here installation of the left-side cord is shown; right-side cord installation is mirrored view.

3.1.1. In order to attach the rubber cords to fuselage it is necessary to drill on each fuselage side a hole in the fuselage beam flange forward of frame No 2. The hole center must be at 58 mm distance from frame No.2 and at 8 mm from the flange edge. (See the drawing and the photo of the drilling template below.)

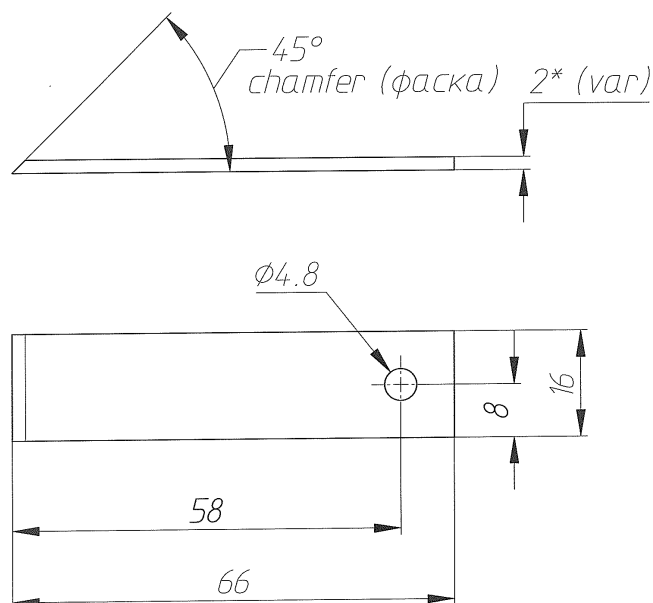


Photo 1

- 3.1.2. Fix the template to the fuselage beam flange with a clamp. Align the rear (oblique) end of the template with the frame plane and its side edge with the edge of the fuselage beam flange (see Photo 2).



Photo 2

- 3.1.3. Using a 90 degree drill make $\varnothing 4.8$ mm hole in the flange through the guide hole in the template (see Photo 3).



Photo 3

- 3.1.4. Insert the threaded stud with a plug inside the outboard pedal footrest from the inboard side (see Photo 4).



Photo 4

- 3.1.5. Install the sleeve, put the rubber cord end eye on the sleeve pin, and put the washer and nut on the thread (see Photo 5). While holding the plug with 17 mm wrench, tighten the nut with 8 mm wrench.



Photo 5

- 3.1.6. Attach the rear eye end of the rubber cord via a washer on top of the fuselage beam flange with AN3-5A bolt and MS21044N4 nut (Photo 6). Tighten the nut with 3/8 inch wrenches ensuring free rotation of the eye end on the bolt.



Photo 6

3.2) Attach a placard with temporary limitation of the maximum luggage weight to 10 kg

Replace the old placard with luggage weight limit of 30 kg to the new one with the temporary luggage weight limit of 10 kg (see photo 7).

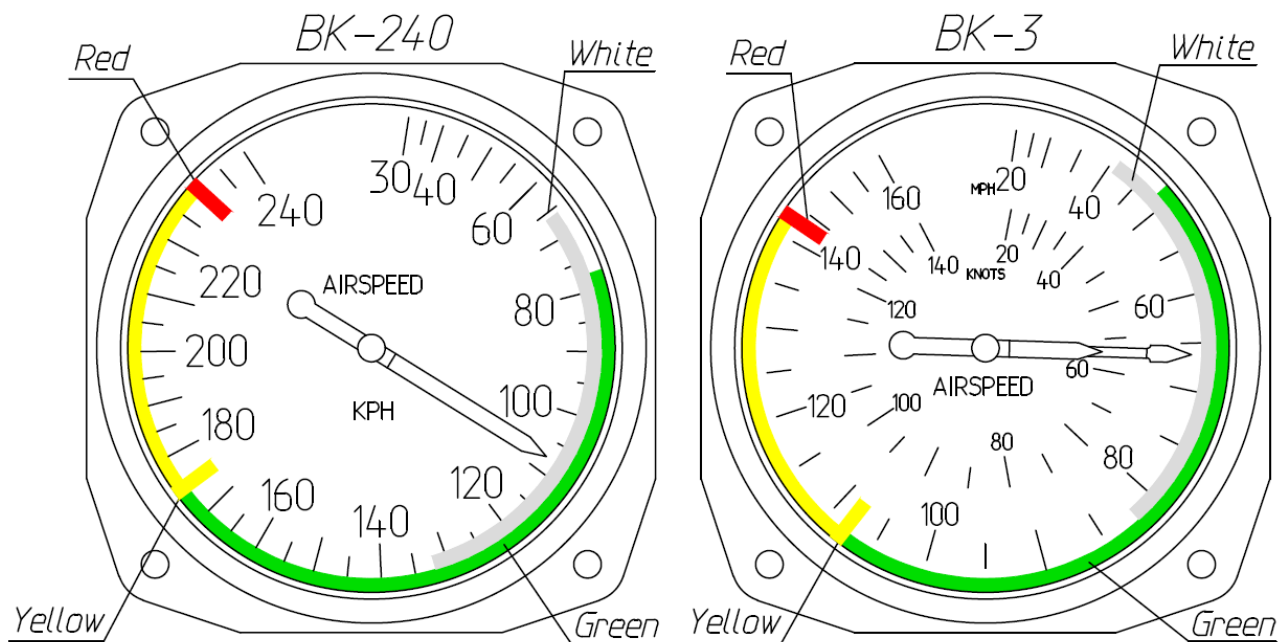


Photo 7

3.3) Change the airspeed indicator marking

Change the airspeed indicator colour marking as specified in the table and on the picture below.

Marking	IAS range or value	Significance
White arc	66 – 132 (36 – 71)	Positive flap operating range
Green arc	77 – 175 (42 – 94)	Normal operating range
Yellow arc	175 – 229 (94 – 124)	Manoeuvres must be conducted with caution and only in smooth air
Yellow line	175 (94)	Design Manoeuvre Speed
Red line	229 (124)	Maximum speed for all operations

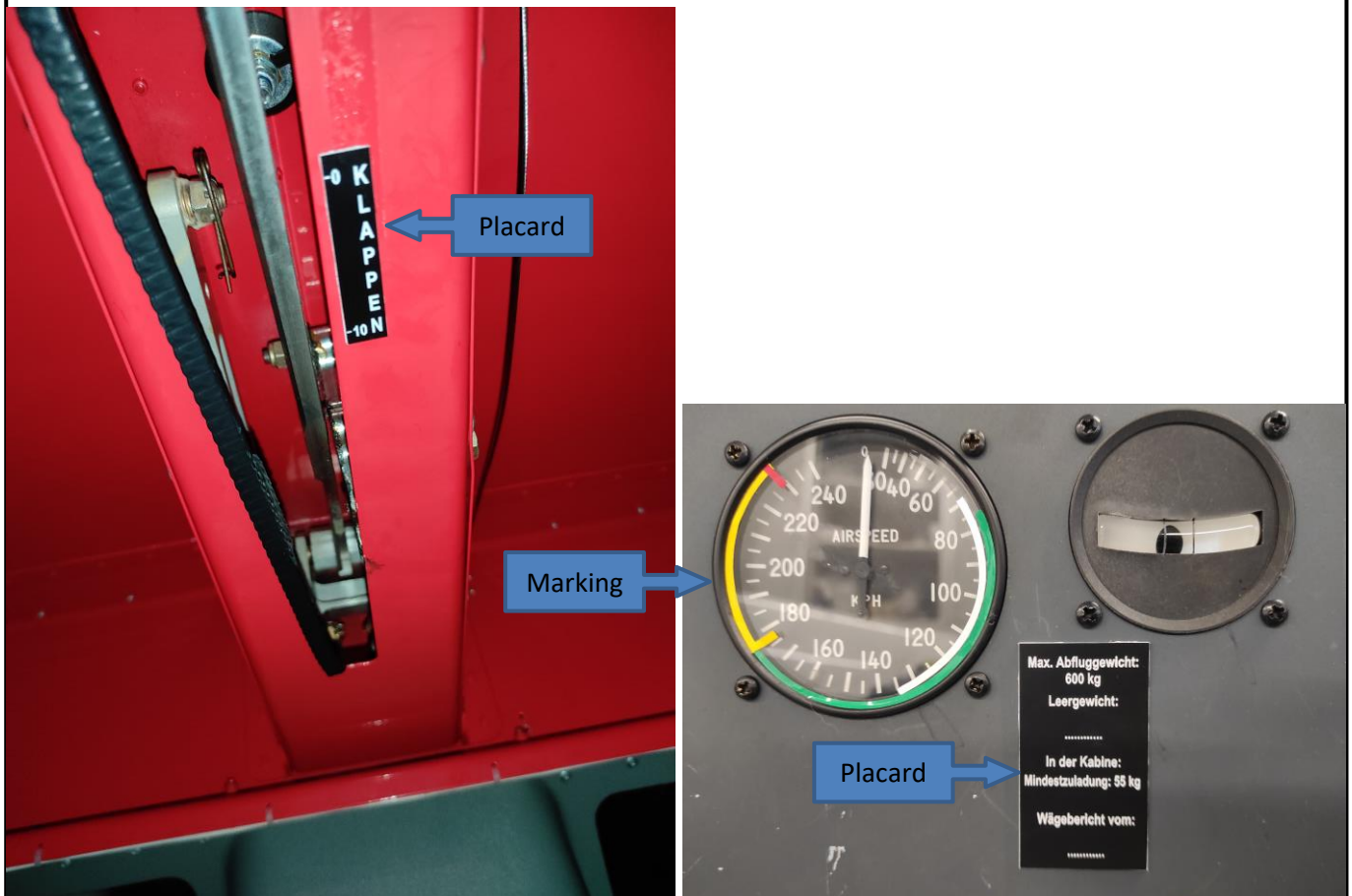
**3.4) Replace the weight limitation placard on the instrument panel**

Replace the old weight limitation placard on the instrument panel with the new one (supplied by local dealer).

3.5) Send the photo documentation to the local dealer

Each owner must submit photo documentation to prove that the work to upgrade the aircraft has been carried out in accordance with this Service Bulletin. Please send this documentation to the address info@aeroprakt.pl. They will be forwarded to DULV, together with the Declaration of Conformity.

The photos should include the items marked with arrows below.



- ◆ **NOTE:** Contact the local dealer for all materials and additional information:
Aleksander Opoczynski at Zator airfield (EPZT)

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