



Aeronautical Works, Kunovice, Czech Republic

Aero

Holding Company, Prague, Czech Republic

MANDATORY BULLETIN No. L23/021a

Sheet: 1
Of: 1
Enclosures: 10

Effectivity: **The L23 SUPER-BLANIK Sailplane
Flight Manual (Doc. No. Do-L23.1012.3)**

Reason: **Small changes and the correct of misprint**

Description: **The Flight Manual holders shall replace old pages
by the new ones enclosed to this bulletin:
0-1, 0-3, 2-4, 2-9, 2-10, 6-6, 6-7, 6-8, 6-9
dated Feb 15/95.**

To be accomplished not later than: **Immediately after receiving this bulletin**

To be accomplished by: **The Flight Manual holder**

Cost covered by: **No costs arise**

Material availability: **Revised pages are enclosed**

Validity: **Since the date receiving.**

Manhours:

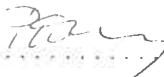


Manufacturer



Civil Aviation Inspectorate

95-02-10





0.1. RECORD OF REVISIONS

Any revision or amendment of the present Manual will be issued in the form of Bulletins, approved by the Civil Aviation Inspectorate of the Czech Republic, supplement of which will contain new (revised) pages. User's duty is to make a note about revisions in the Record of revisions and to replace existing pages with revised and effective ones. Revised or amended parts of the text will be indicated by a vertical line in the left hand margin and the revision No. and the date will be shown on the bottom left hand of the page.

Rev. No.	Affected Section	Affected pages	Date	Bulletin No.	Date of Bulletin approval	Date inserted and signature
1.	0, 2, 6	0-1, 0-3, 2-4, 2-9, 2-10, 6-6, 6-7, 6-8, 6-9	Feb 15/95	L23/021a	Feb 28/95	



0.2. LIST OF EFFECTIVE PAGES

Section	Page	Date	Section	Page	Date	
0	1	Feb 15/95	4	Appr. 19	Dec 6/93	
	2	Dec 6/93		Appr. 20	Dec 6/93	
	3	Feb 15/95		Appr. 21	Dec 6/93	
	4	Dec 6/93		Appr. 22	Dec 6/93	
				Appr. 23	Dec 6/93	
				Appr. 24	Dec 6/93	
				Appr. 25	Dec 6/93	
				Appr. 26	Dec 6/93	
				Appr. 27	Dec 6/93	
1	1	Dec 6/93		5	Appr. 1	Dec 6/93
	2	Dec 6/93			Appr. 2	Dec 6/93
	3	Dec 6/93			Appr. 3	Dec 6/93
	4	Dec 6/93			4	Dec 6/93
2	Appr. 1	Dec 6/93	6	1	Dec 6/93	
	Appr. 2	Dec 6/93		2	Dec 6/93	
	Appr. 3	Dec 6/93		3	Dec 6/93	
	Appr. 4	Feb 15/95		4	Dec 6/93	
	Appr. 5	Dec 6/93		5	Dec 6/93	
	Appr. 6	Dec 6/93		6	Feb 15/95	
	Appr. 7	Dec 6/93		7	Feb 15/95	
	Appr. 8	Dec 6/93		8	Feb 15/95	
	Appr. 9	Feb 15/95		9	Feb 15/95	
	Appr. 10	Feb 15/95				
3	Appr. 1	Dec 6/93	7	1	Dec 6/93	
	Appr. 2	Dec 6/93		2	Dec 6/93	
	Appr. 3	Dec 6/93		3	Dec 6/93	
	Appr. 4	Dec 6/93				
4	Appr. 1	Dec 6/93	8	1	Dec 6/93	
	Appr. 2	Dec 6/93		2	Dec 6/93	
	Appr. 3	Dec 6/93				
	Appr. 4	Dec 6/93				
	Appr. 5	Dec 6/93				
	Appr. 6	Dec 6/93				
	Appr. 7	Dec 6/93				
	Appr. 8	Dec 6/93				
	Appr. 9	Dec 6/93				
	Appr. 10	Dec 6/93				
	Appr. 11	Dec 6/93				
	Appr. 12	Dec 6/93				
	Appr. 13	Dec 6/93				
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	Appr. 15	Dec 6/93				
	Appr. 16	Dec 6/93				
	Appr. 17	Dec 6/93				
	Appr. 18	Dec 6/93				



2.4 WEIGHT LIMITS

Maximum take - off and landing weight:

- with two occupants 510 kg (1124 lb)
- with one pilot 420 kg (925 lb)

Empty weight

- with standard equipment 310 kg \pm 2 % (683 lb \pm 2 %)
- with wing tip extensions 315 kg \pm 2 % (695 lb \pm 2%)

- Maximum weight of all non lifting parts 353 kg (778 lb)
- with wing tip extensions 348 kg (767 lb)

and the corresponding centre

- of gravity position 67.30 \pm 1% MAC
- with wing tip extensions 68.30 \pm 1% MAC

NOTE :

Refer to weight and Balance (Section 6.0) to determine actual empty weight / c.g. as established by the installed equipment and manufacturing tolerances.

Pilot's weight (including parachute):

- minimum pilot's weight (solo) 55 kg (121 lb)

It is necessary to use front seat removable ballast of 15 kg (33 lb) when flown solo by a pilot (including parachute) weighing less than 70 kg (154 lb) in the front cockpit.

NOTE:

Installation of the front seat ballast is described in Section 7, paragraph 7.2 of this Flight Manual.

- maximum pilot's weight (solo) 110 kg (242 lb)

Maximum useful load (occupants,

- baggage, optional equipment) 200 kg (440 lb)
- with wing tip extensions 195 kg (430 lb)

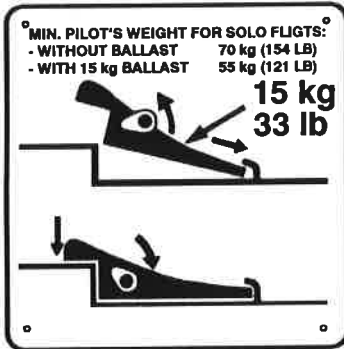
Maximum baggage compartment load . . . 10 kg (22 lb)



2.12 LIMITATIONS PLACARDS

The following operating limitations are emphasized on the limitation placards in both cockpits:

a) front cockpit



SEAT BACK



PEDAL ADJUSTMENT



AIR VENT



FRONT LIFT OFF
see para 3.2

CENTRE OF GRAVITY RANGE

FRONT LIMIT . 23 % MAC

REAR LIMIT . . 40 % MAC

b) both front and rear cockpits



AIR BRAKES



JETTISON/LIFT OFF
(REAR SEAT ONLY)
see para 3.2



WHEEL BRAKE



LANDING GEAR



FRONT CANOPY -
JETISON
see para 3.2



**BAGGAGE
(REAR SEAT ONLY)**



On customer's request:

MAX. ALLOWABLE SPEED (km/h IAS) VS ALTITUDE						
PRESSURE ALTITUDE (m) UP TO	5 000	6 000	7 000	8 000	9 000	10 000
WITHOUT EXTENSIONS	243	230	221	211	202	191
WITH EXTENSIONS	223	210	201	191	182	171

On customer's request:

MAX. ALLOWABLE SPEED (KIAS) VS ALTITUDE					
PRESSURE ALTITUDE (ft) UP TO	13 780	20 000	25 000	30 000	35 000
WITHOUT EXTENSIONS	135	124	116	108	100
WITH EXTENSIONS	124	114	105	97	89

See para 2.2

MAX. WINCH - LAUNCHING SPEED	120 km/h (65 KIAS)
MAX. AERO - TOWING SPEED	150 km/h (81 KIAS)
MAX. MANOEUVRING SPEED	150 km/h (81 KIAS)

See para 2.2

If installed wing tip extensions:

**ALL AEROBATIC MANOEUVRES
ARE PROHIBITED WITH
INSTALLED WING TIP EXTENSIONS**

If installed wing tip extensions:

**MAXIMUM AIRSPEED WITH
WING TIP EXTENSIONS
V_{NE} 230 km/h (124 KIAS)**

OPERATING LIMITATIONS

THE MARKINGS AND PLACARDS INSTALLED IN THIS SAILPLANE CONTAIN OPERATING LIMITATIONS WHICH MUST BE COMPLIED WITH WHEN OPERATING IN UTILITY CATEGORY. OTHER LIMITATIONS ARE CONTAINED IN SAILPLANE FLIGHT MANUAL.

MAX. GROSS WEIGHT 510 kg (1124 lb)
EMPTY WEIGHT (STANDARD) 310 kg (683 lb)

APPROVED MANOEUVRES:

LOOP	CHANDELLE (CLIMBING)
STALL TURN	HALF LOOP AND HALF ROLL
LAZY EIGHT	HALF ROLL AND HALF LOOP
SPIN	INVERTED FLIGHT
STEEP TURN	SLOW ROLL
SOLO FLIGHT FROM FRONT SEAT ONLY	



TRIMMER



RELEASE



6.5 BALANCE RECORD

No:	Empty weight kg (lb)	c/g pos. % MAC	Permitted crew + passenger weight with (kg) [lb]:												Approved	
			Max. baggage 10 kg (22 lb)				Half baggage 5 kg (11 lb)				No baggage 0 kg (0 lb)				Date	Signed
			Rear seat		Front seat		Rear seat		Front seat		Rear seat		Front seat			
			Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1.																
2.																
3.																

- 1. Single seat
- 2. Tandem seater-max front pilot
- 3. Tandem seater-max rear pilot



L 23 SUPER - BLANIK

686 04 KUNOVICE
CZECH REPUBLIC

SAILPLANE FLIGHT MANUAL

Do - L 23. 1012.3

6.6 EQUIPMENT LIST

Standard (S) items must be installed for all operations. Optional (O) items are available for installation. Installed items for each sailplane equipment list will be marked with an "X" and included in the Empty Weight/c.g. pos of the Balance Record.

	S	O	Subject	Type	Mass kg (lb)	Arm from the reference plane (rib No. 1) mm	Date of installation
1	X		Altimeter	LUN 1124.01 front instr.panel rear instr.panel	0.85 (1.88)	- 1773.5 - 553.5	
2	X		Airspeed indicator	LUN 1106.10-8 front instr.panel rear instr.panel or LUN 1106.12-8 front instr.panel rear instr.panel	0.40 (0.88)	- 1775.5 - 555.5 - 1775.5 - 555.5	
3	X		Electric turn-and-bank/side indicator	LUN 1211.1 front instr.panel rear instr.panel	0.36 (0.79)	- 1775.5 - 555.5	
4	X		Vertical speed indicator \pm 1000 ft/min or Vertical speed indicator \pm 10 knots or Vertical speed indicator \pm 5 m/s	LUN 1141.02 front instr.panel rear instr.panel LUN 1141.04 front instr.panel rear instr.panel LUN 1141 ront instr.panel rear instr.panel	0.48 (1.06) 0.48 (1.06) 0.48 (1.06)	- 1788.5 - 568.5 - 1788.5 - 568.5 - 1788.5 - 568.5	

(Cont.)



	S	O	Subject	Type	Mass kg (lb)	Arm from the reference plane (rib No. 1) mm	Date of installation
5	X		Vertical speed indicator \pm 6000 ft/min	LUN 1147.12-8 front instr. panel	0.50 (1.1)	- 1768.5	
			or Vertical speed indicator \pm 60 knots	LUN 1147.23-8 front instr.panel	0.50 (1.1)	- 1768.5	
			or Vertical speed indicator \pm 30 m/s	LUN 1147.10-8 front instr.panel	0.50 (1.1)	- 1768.5	
6	X		Magnetic compass	LUN 1221.1-8 front instr.panel rear instr.panel	0.105 (0.23)	- 1776.5 - 546.5	
7		X	Vertical speed indicator \pm 6000 ft/min	LUN 1147.12-8 rear instr. panel	0.50 (1.1)	- 548.5	
			or Vertical speed indicator \pm 60 knots	LUN 1147.23-8 rear instr.panel	0.50 (1.1)	- 548.5	
			or Vertical speed indicator \pm 30 m/s	LUN 1147.10-8 rear instr.panel	0.50 (1.1)	- 548.5	
8		X	Accelerometer	AM-10 front instr. panel	0.25 (0.55)	- 1680	
9		X	COMM				
10		X	Paint				
11							

(Cont.)



	S	O	Subject	Type	Mass kg (lb)	Arm from the reference plane (rib No. 1) mm	Date of installation
12							
13							
14							
15							
16							

Optional (O) Item 8, 9 as applicable are required for pilot's station for cloud flying operations.