LET, 686 04 KUNOVICE, CZECHOSŁOVAKIA

SAILPLANE FLIGHT MANUAL

Model:

L 23 SUPER - BLANIK

Serial No. :

938018

Registration

N258BA

Document No.: Do - L 23. 1011.5

Date of Issue: June 12, 1992

This Sailplane Flight Manual is FAA Approved for U.S.-registered sailplanes in accordance with provisions of 14 CFR Section 21.29, and as required by FAA Type Certificate Data Sheet No. Cooks Pages identified as "Appr." provide information required to be furnished by the Federal Aviation Regulations.

Approved by The Civil Aviation Inspectorate of Czech and Slovak Federal Republic in Prague, on August 28, 1989 under No. 4694/ 1034/ 89/ OL.

Signature:

1 mon

Authority:

Civil aviation Inspectorate

of ČSFR

Stamp:

Original date of approval: October 14, 1992

This Sailplane Flight Manual must be carried in the sailplane at all times

This sailplane is to be operated in compliance with information and limitations contained herein.

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SECTION 2

Limitations

CONTENTS

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- 2.2 Airspeed
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 - 2.5 Centre of gravity Limits
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2.1 INTRODUCTION

Section 2 includes operating limitations and basic placards necessary for safe operation of the sailplane, its standard systems and standard equipment. Compliance with the limitation in this section is required by regulation.

2.2 AIRSPEED

Speed		(KIAS)	Remarks	
VNE	Never exceed speed up to a pressure altitude of 11, 000 ft	133	Do not exceed this speed in any operation and do not use more than 1/3 of control deflection	
VRA	Rough air speed	86	Do not exceed this speed except in smooth air, and then only with caution. Examples of rough air are lee-wave rotor thunderclouds etc.	
VA	Manoeuvring speed	81	Do not make full or abrupt control movement above this speed, because under certain conditions the sailplane may be overstressed by full control movement	
Vw	Maximum winch- launching speed	65	Do not exceed this speed during winch- or autotow-launching	
VT	Maximum aerotowing speed	81	Do not exceed this speed during aerotowing	
VLO	Maximum landing gear operating speed	133	Do not extend or retract the landing gear above this speed	

Note:

 $v_{\mbox{\scriptsize NE}}$ airspeed limits above 11,000 ft Pressure Altitude are reduced as follows:

15,000 - 123 KIAS

20,000 - 111 KIAS

25,000 - 100 KIAS

30,000 - 89 KIAS

35,000 - 79 KIAS



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2.3 AIRSPEED INDICATOR MARKINGS

Marking	KIAS (value - range)	Normal Operating Range. (Lower limit is maximum weight 1.1 vsi at most forward c.g. Upper limit is rough air speed) Manoeuvres must be conducted with caution and only in smooth air.		
Green arc	36 - 86			
Yellow arc	86 - 133			
Red line	133	Maximum speed for all operations		
Yellow triangle	41	Approach speed at maximum weight.		

2.4 WEIGHT LIMITS

Maximum take - off landing weight:

- with two occupants 1124 lb

Empty weight with standard equipment 683 lb + 2 %

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):

WARNING:IT IS NECESSARY TO USE FRONT SEAT REMOVABLE BALLAST OF 33 LB WHEN FLOWN SOLO BY A PILOT (INCLUDING PARACHUTE) WEIGHING LESS THAN 154 LB IN THE FRONT COCKPIT.

(Cont.)

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Note:	Installation of the front seat ballast is paragraph 7.2 of this Flight Manual.	s described in Section 7,
90		0.40 15

- maximum pilot's weight (solo) 242 lb

Maximum useful load (occupants, baggage, optional equipment) 440 lb

Maximum baggage compartment load 22 lb

2.5 CENTRE OF GRAVITY

Centre of gravity range

. 23 % MAC i.e. 4.397 in - front limit (112 mm) aft of

reference datum

. . . . 40 % MAC i.e. 12.783 in

(325 mm) aft of reference datum

The reference datum is located 93.6 in aft of the sailplane nose.

2.6 APPROVED MANOEUVRES (UTILITY CATEGORY)

Manoeuvre	Airspeeds - KIAS				Procedures
	SOLO	DUAL	ENTRY	RECOVERY	7 7
Loop	86	97	x		Section 4.3.6 item 1.
Stall turn	92	97	х		Section 4.3.6 item 2.
Lazy Eight	97	97	х		Section 4.3.6 item 3.
Spin	32 86	32 86	х	х	Section 4.3.6 item 4.
Chandelle(climbing)	97	97	х		Section 4.3.6 item 5
Steep turn	92	97	x		Section 4.3.6 item 6.

2.7. MANOEUVRING LOAD FACTORS



FIG. 2 - 1

2.8 FLIGHT CREW

Maximum number of occupants is two. If the sailplane is to be flown solo, the pilot must be sitting in the front seat and his weight (including parachute) must be 154 lb at least. If the pilot's weight is less than 154 lb, it is necessary to use the cushion with 33 lb ballast.

WARNING:THE REAR SEAT MUST BE SECURED AGAINST FOLDING AND SAFETY HARNESSES ON THE REAR SEAT MUST BE CONNECTED, DRAWN TOGETHER AND SECURED.

2.9 KINDS OF OPERATION

The sailplane is certified in the Utility Category with a limited selection of approved aerobatic manoeuvres (see paragraph 2.6). The sailplane is approved for Day VFR operations. Cloud- flying is permitted where operational regulations permit.

WARNING:OPERATIONS IN ICING CONDITIONS ARE PROHIBITED.
OPERATIONS ARE LIMITED BY THE INSTALLED
EQUIPMENT AS LISTED IN SECTION 6.

IT IS NECESSARY TO RECORD THE AEROBATIC MANOEUVRES INTO THE SAILPLANE LOG BOOK SO AS TO BE POSSIBLE TO FIND OUT WHENEVER TOTAL FLIGHT TIME OF ACROBATICS FROM DATA OF SAILPLANE MANUFACTURE.

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2.10 AEROTOW AND WINCH LAUNCHING

Aerotow

- the maximum cable strength or cable safety device (weak link) strength is 1460 lb
- the minimum cable length for aerotowing is 50 ft, recommended length is 100-130 ft.

Winch-launching

the maximum cable strength or cable safety device (weak link) is 1460 lb.

2.11 OTHER LIMITATIONS

A.Maximum crosswind component

 maximum demonstrated crosswind component for safe approach, landing and aerotow launching is 16 kt for angle 90⁰.

Maximum demonstrated crosswind component for winch-launching:

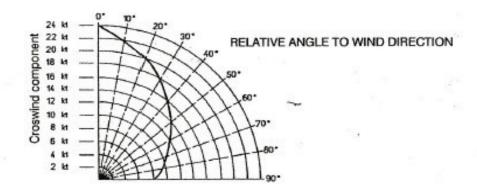


FIG. 2 - 2

- B.Maximum demonstrated operating altitude 13, 780 ft
- C.Maximum Tire Pressure 37 psi.

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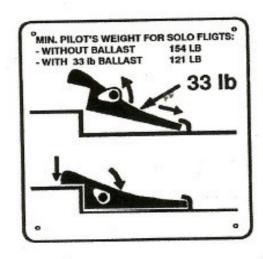
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2.12 LIMITATIONS PLACARDS

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

a) front cockpit



SEAT BACK

PEDAL ADJUSTMENT



Fr F





AIR VENT

CANOPY - JETTISON see para 3.2

FRONT LIMIT . 23 % MAC REAR LIMIT . 40 % MAC

b) both front and rear cockpits

MAX. WINCH - LAUNCHING SPEED 65 KIAS

MAX. AERO - TOWING SPEED

81 KIAS

MAX. MANOEUVRING SPEED

81 KIAS

See para 2.2

OPERATING LIMITATIONS

THE MARKING 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

1124 LB

PERMITTED AEROBATIC MANOEUVRES:

LOOP

SPIN

STALL TURN

CHANDELLE(CLIMBING)

LAZY EIGHT

STEEP TURN

SOLO FLIGHT FROM FRONT SEAT ONLY

VNE . . . 133 KIAS VRA . . . 86 KIAS

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MAX. ALLOWABLE SPEED VS ALTITUDE

PRESSURE ALTITUDE (FT) UP TO 11 000 15 000 20 000 25 000 30 000 35 000 SPEED KIAS, MAX. 133 123 111 100 89 79









AIR BRAKES

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





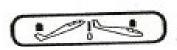




LANDING GEAR

FRONT LIFT OFF see para 3.2

BAGAGGE (REAR SEAT ONLY)



TRIMMER



RELEASE

THIS GLIDER MUST
BE OPERATED IN
COMPLIANCE
WITH THE OPERATING LIMITATIONS
STATED IN THE
FORM OF
PLACARDS,
MARKINGS AND
MANUALS





BLANIK AMERICA, INC.

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July 7, 1994

RED WING SOARING c'o Charles E. Matson 2368 Joy Ave White Bear Lake MN 55110

Dear Chuck.

Thank you for your telecon of today and a report on your club's soaring activities. We are pleased to confirm that the LET factory approved the Weight and Balance diagram which you submitted, dated April 199-Blank L23 N-258BA, for the empty moment of 84281 inft.

Also enclosed is the L23 Undercardage Service Letter you requested.

Sincerely,

BLANK AMERICA INC.

Vitek Siroky President