



MANDATORY BULLETIN

MB No: L23/039a

Concerning: Maintenance Manual L 23 SUPER-BLANIK (Do-L23-1031.3)

Reason: Extending of the periodical maintenance inspection time limits.
Replace original pages by new one with date Mar 27/00.
This bulletin cancels information bulletin L23/038b.

To be carried out at the latest by:	Immediately after receiving this bulletin
To be carried out by:	Manual owner
Costs to be covered by:	No cost arise
Necessary material to be supplied by:	Revised pages are enclosed
Bulletin becomes effective:	Since the date of receiving
Manhours required:	0
Total number of pages:	Title pages + 10 pages


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Manufacturer

Engineering data contained in this Bulletin is CAA Approved in Czech language version.

Date: Feb 16/01

MAINTENANCE MANUAL

CHAPTER 5TIME LIMITS/MAINTENANCE CHECKS

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Record of revisions	1	Feb 8/91			
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CHAPTER 5

TIME LIMITS/MAINTENANCE CHECKS

RECORD OF REVISIONS

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		Revised Pages	New Pages	Deleted Pages				
7	List of eff. pages	1	-	-				Oct 30/95
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TIME LIMITS/MAINTENANCE CHECKS

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9	5-10-00	5	-	-				Sep 10/97
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MAINTENANCE MANUAL

TIME LIMITS
.....1. General

The regular maintenance of the sailplane consists of routine and periodic maintenance depending on the number of flight hours.

2. Routine Maintenance

This maintenance should be performed at the end of every flight day.

3. Periodic Maintenance

The periodic maintenance is divided into inspections 1,2,3.

Inspection 1 - after every 100 ± 10 hours, or after 500 ± 40 take-offs, or once a year from the initial start, or from the most recent inspection.

Inspection 2 - after every 500 ± 30 hours of operation, or after 3000 ± 180 take-offs, but after 8 years since the initial start, or since the most recent inspection 2 or 3 at the latest.

Inspection 3 - after every 1000 ± 50 flight hours, or after 5000 ± 250 take-offs, but 16 years since the initial start, or since the most recent inspection 3 at the latest.

- after a crash of the sailplane.

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TIME LIMITS
.....4. Airframe Overhaul

The airframe overhaul is not to be performed.

5. Sailplane Service Life

The initial sailplane service life is specified to 6000 flight hours and 30000 landings under the following operating conditions:

- Max. 4.83 take-offs per 1 flight hour;
- The winch launching - aerotow take-off ratio is 5:1;
- Crew: 35% double, 65% single;
- Elementary training-to-advanced training and to performance soaring ratio is 40% : 60%, whereby the acrobatics share is 2 % of the total operation.

If the percentage of acrobatic manoeuvres is exceeded, contact the manufacturer.

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TIME LIMITS

Item No.	Name	Code	Overhaul	Service life
1	2	3	4	5
A	<u>COCKPIT INSTRUMENTS</u>			
(1)	Airspeed indicator	LUN 1106.02-8	-	On condition
(2)	Rate-of-climb indicator 5m/s	LUN 1141.01	-	On condition
(3)	Rate-of-climb indicator 30 m/s	LUN 1147.12-8	-	On condition
(4)	Turn and bank indicator	LUN 1211.1	-	On condition
(5)	Altimeter	LUN 1124.03-8	-	On condition
(6)	Liquid-type compass	LUN 1221.1-8	-	On condition
(7)	Accelerometer (is valid for sailplanes delivered to Canada and upon the customer's request)	AM-10	-	On condition
(8)	Vertical speed indicator and second indicator (sailplanes from ser.968301 optional)	ILEC SC-7 } ILEC RAZ } +)	-	On condition
B	<u>LANDING GEAR</u>			
(1)	Wheel with brake	HP 4741-Z	-	On condition
(2)	Tyre with tube	350x135	-	On condition
(3)	Landing-gear shock absorber a) Landing gear damper packing	A 019 064 N	-	On condition 2000 ±100 hours or 10000 ± 500 take-offs/ /16 years

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TIME LIMITS

1	2	3	4	5
(4)	Tail wheel (sailplanes to ser. No. 8320 and from ser. No. 8401 optional)	A 751 201 N	-	On condition
(5)	Tail wheel (sailplanes from ser. No. 8401 optional)	CONTINENTAL 210-65	-	On condition
(6)	Tyre with tube (sailplanes from ser. No. 8401 optional)	210-65	-	On condition
(7)	Wheel on wing tip end (sailplanes from ser. No. 8401)	A 750 234 N	.	On condition
C	<u>ELECTRICAL SYSTEM</u>			
(1)	Airborne battery (optional)	NKDU 10 or NKDU 10R	-	On condition
(2)	Switch	VG-15K-2S	-	On condition
D	<u>COMMUNICATION EQUIPMENT</u>			
(1)	Radio station (optional)	LS-5	-	On condition
E	<u>HOSE</u>			
(1)	Hose, total and static pressure system	5/9 CSN 022427.07	-	4000 hr (16 years)

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TIME LIMITS

1	2	3	4	5
F	<u>TOWING GEAR</u>			
(1)	Bottom tow release (effective for gliders at which is installed)	EUROPA G 88	2000 take-offs	will be determined by manufacturer
(2)	Front tow release (effective for gliders at which is installed)	EUROPA E 85	2000 take-offs	will be determined by manufacturer
(3)	Tow release cables	2 CSN 024311.25	-	2000 \pm 100 hours or 10000 \pm 500 take-offs/16 years
G	<u>FLIGHT CONTROLS</u>			
(1)	Rudder control cables	A 740 254 N A 740 255 N	-	2000 \pm 100 hours or 10000 \pm 500 take-offs/16 years
H	<u>OXYGEN EQUIPMENT</u> (if installed)			
(1)	Cylinder	SCOTT 5500 - -B1A-BE20B	on condition	on condition
(2)	Mask	DUO-SEAL type 28318-13	on condition	on condition

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TIME LIMITS
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NOTE: For the general overhaul, the EUROPA G 88 bottom tow release and EUROPA E 85 front tow release (if installed on glider) must be sent to the manufacturer TOST GmbH Flugzeuggerätebau, Thaikirchnerstr.62, 8000 München 2, West Germany.

This note relates to items F (1) and (2) which are mentioned in the table on the page No.7.

- +) See the CLUBVARIOMETER MANUAL (Chap.3 - Maintenance, Chap.4 - Adjustments at the SC-7, and Chap.5 - The SC-7 Variometer in flight) issued by ILEC Industrie und Luftfahrtelektronik GmbH Friedrich-Puchta - Str. 6 D-95444 Bayreuth.

MAINTENANCE MANUAL

SCHEDULED MAINTENANCE CHECKS

Subject No.	Name of part/unit Scheduled Maintenance Check	Note
53-00-00-C	Check the function of tow release mechanism.	It is recommended to perform this check before each takeoff.
55 55-00-00-A	<u>STABILIZERS</u> Inspect the stabilizer surfaces. Check the rudder and the elevator for movability	
56 56-00-00-A	<u>WINDOWS</u> Inspect glasses of canopy and the side window glass.	
57 57-00-00-A	<u>WINGS</u> Inspect the wing surface. Check the movable wing parts.	

The operation of the sailplane without overhauls requires that special attention is given to the sailplane technical condition and by deterioration (depending on its character) is removed immediately to avoid later more extensive remedies due to non-repaired smaller defects.

3. Periodic Maintenance

Periodical Maintenance Check 4 has been cancelled. Inspections and checks originally required during inspection 4 are now classed under inspection 3. Referenced information to the applicable procedures in the sections of the Maintenance Manual has not been corrected, it means that where reference is made to inspection 4 it actually refers to inspection 3. In the new issues of the Maintenance Manual references to types of inspections with be cancelled.

Subject No.	Name of part/unit Scheduled Maintenance Check	Maintenance			Note
		1	2	3	
8 8-10-00-A	<u>LEVELLING AND WEIGHING</u> Determine mass and center of gravity positions.			(+)	
8-20-00-A	Perform levelling.			(+)	
12 12-10-00-A	<u>SERVICING</u> Check the tyre pressure	(+)	(+)	(+)	
23 23-60-00-A	<u>COMMUNICATION</u> Check up all bonding of the control system	(+)	(+)	(+)	

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SCHEDULED MAINTENANCE CHECKS

Subject No.	Name of part/unit Scheduled Maintenance Check	Maintenance			Note
		1	2	3	
24	<u>ELECTRICAL POWER</u>				
24-00-00-C	Service the airborne battery	+	+	+	
24-00-00-D	Inspect cable bundles			+	
24-00-00-E	Inspect the electrical system			+	
25	<u>EQUIPMENT/FURNISHINGS</u>				
25-10-00-A	Inspect the cockpits	+	+	+	
25-60-00-B	Check for contents and condition of the first-aid kit	+	+	+	
27	<u>FLIGHT CONTROLS</u>				
27-00-00-B	Check flight control elements for movability	+	+	+	
27-00-00-C	Inspect control tie rods, pulleys and guides	+	+	+	
27-00-00-D	Check control surfaces deflections	+	+	+	

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SCHEDULED MAINTENANCE CHECKS

Subject No.	Name of part/unit Scheduled Maintenance Check	Maintenance			Note
		1	2	3	
27-10-00-A	Check the aileron control system			+	
27-20-00-A	Check the rudder control cables for tension	+	+	+	
27-20-00-B	Replace the rudder control cables			+	
27-30-00-A	Check for the control of the elevator and the control of the elevator trim tabs			+	
27-30-00-B	Check for tightening of the elevator control cables and the elevator trim TAB cables			+	
27-60-00-A	Check for air brake control			+	
32	<u>LANDING GEAR</u>				
32-00-00-B	Check the landing gear suspension clearance	+	+	+	

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SCHEDULED MAINTENANCE CHECKS

Subject No.	Name of part/unit Scheduled Maintenance Check	Maintenance			Note
		1	2	3	
32-00-00-C	Inspect the landing gear			⊕	
32-00-00-D	Replace packing of the landing gear shock absorber			⊕	
32-10-01-A	Check landing gear shock absorber pressure	⊕	⊕	⊕	
32-30-00-A	Check the landing gear control for function	⊕	⊕	⊕	
32-40-00-A	Check the tyre for wear	⊕	⊕	⊕	
32-40-00-B	Inspect the wheel with brake	⊕	⊕	⊕	
32-40-00-C	Check the wheel bearing condition			⊕	
32-70-00-A	Inspect the tail-skid wheel	⊕	⊕	⊕	

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SCHEDULED MAINTENANCE CHECKS

Subject No.	Name of part/unit Scheduled Maintenance Check	Maintenance			Note
		1	2	3	
34	<u>NAVIGATION</u>				
34-00-00-A	Blow through the total, static, and compensated pressure piping		+	+	
34-00-00-B	Inspect the instruments of the total, static, and compensated pressure system	+	+	+	
34-00-00-C	Check the total, static, and compensated pressure system for leakage		+	+	Perform after 24 months at least
34-00-00-D	Replace the total, static, and compensated pressure hoses			+	
34-10-01-A	Remove and install the LUN 1106.02-8 airspeed indicator			+	
34-10-01-B	Check the LUN 1106.02-8 airspeed indicator			+	
34-10-02-A	Remove and install the LUN 1124.03-8 altimeter			+	

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SCHEDULED MAINTENANCE CHECKS

Subject No.	Name of part/unit Scheduled Maintenance Check	Maintenance			Note
		1	2	3	
34-10-02-B	Check the LUN 1124.03-8 altimeter			+	
34-10-03-A	Remove and install the LUN 1147.12-8 rate-of-climb indicator			+	
34-10-03-B	Check the LUN 1147.12-8 rate-of-climb indicator			+	
34-10-04-A	Remove and install the LUN 1141.01 rate-of-climb indicator			+	
34-10-04-B	Check the LUN 1141.01 rate-of-climb indicator			+	
34-10-06-A	Remove and install the AM 10 accelerometer		+	+	} is valid for saiplanes delivered to Canada and upon the customer's request
34-10-06-B	Check the AM 10 accelerometer		+	+	
34-20-01-A	Remove and install the LUN 1211.1 turn and bank indicator		+	+	
34-20-01-B	Clean the LUN 1211.1 commutator		+	+	} In the USA-shop item only not for mechanic
34-20-01-C	Check the LUN 1211.1			+	

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SCHEDULED MAINTENANCE CHECKS

Subject No.	Name of part/unit Scheduled Maintenance Check	Maintenance			Note
		1	2	3	
34-20-02-A	Remove and install the LUN 1221.1-8			(+)	
34-20-02-B	Check the LUN 1221.1-8 liquid-type compass			(+)	
34-20-02-C	Compensate the LUN 1221.1-8 liquid-type compass	(+)	(+)	(+)	
35	<u>OXYGEN EQUIPMENT</u>				
35-00-01-B	Check the oxygen apparatus for the absence of impurities and for their proper fastening.	(+)	(+)	(+)	
35-00-02-B	Inspect the oxygen masks and check its operation.	(+)	(+)	(+)	
52	<u>DOORS</u>				
52-00-00-A	Check for emergency canopy jettison	(+)	(+)	(+)	
53	<u>FUSELAGE</u>				
53-00-00-B	Inspect the fuselage	(+)	(+)	(+)	
53-00-00-C	Check the function of tow release mechanism.	(+)	(+)	(+)	
53-00-00-D	Inspect the skin of the fuselage bottom part between frames 1 and 6		(+)	(+)	

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SCHEDULED MAINTENANCE CHECKS

Subject No.	Name of part/unit Scheduled Maintenance Check	Maintenance			Note
		1	2	3	
53-00-00-E	Inspect the frame No. 14 in the area of the tail skid wheel attachment		⊕	⊕	
53-00-00-F	Inspect skins in the area of cut-outs for various fittings			⊕	
53-00-00-G	Inspect launching hooks			⊕	
53-00-00-H	Inspect the sailplane paint and ornamentation			⊕	
53-00-00-I	Replace cables to the side towing hooks			⊕	On glider with side towing hooks
53-00-00-I	Replace cable to the bottom tow release			⊕	On gliders with bottom tow release
55	STABILIZERS				
55-00-00-B	Inspect stabilizers	⊕	⊕	⊕	
55-00-00-C	Measure the holes and pins in the stabilizers hinges			⊕	

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SCHEDULED MAINTENANCE CHECKS

Subject No.	Name of part/unit Scheduled Maintenance Check	Maintenance			Note
		1	2	3	
57	<u>WINGS</u>				
57-00-00-B	Inspect the wing	⊕	⊕	⊕	
57-00-00-C	Inspect rivets on ribs Nos. 13, 19, 25 at the top and at the bottom between the spar and the trailing edge.		⊕	⊕	
57-00-00-D	Measure holes and pins in the wing-fuselage hinges			⊕	
57-00-00-E	Inspect critical areas of the wing lower flange			⊕	
57-00-00-F	Check the lower air brake for rigidity			⊕	
57-00-00-G	Inspect the connecting pins of the front and rear wing hinges			⊕	

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SCHEDULED MAINTENANCE CHECKS

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