

MANDATORY BULLETIN

MB No: L23/O30a

Concerning: Flight Manual for the L23 SUPER - BLANIK (Do-L23.1012.5)

Reason: Customer reminders:

1. Preflight check supplementation
2. Text change of the approved manoeuvres placard

Flight Manual effectivity extension for the „model 96“:

1. Basic dimension
2. Canopy jettison
3. Front canopy - air vent control change

Cancel original pages: 0-1, 0-3, 1-1, 1-3, 1-4, 2-10, 2-11, 3-1, 3-2, 3-3, 3-4, 4-5, 4-6, 4-7, 7-4, 7-5 and 7-6

Insert new pages: 0-1, 0-3, 1-1, 1-3, 1-4, 1-5, 2-10, 2-11, 3-1, 3-2, 3-3, 3-4, 3-5, 4-5, 4-6, 4-7, 7-4, 7-5 and 7-6 dated Oct 30/96.

To be carried out at the latest by: On receiving this Bulletin

To be carried by: Flight Manual Holder

Costs to be covered by: No cost arise

Necessary material to be supplied by: New and revised pages are enclosed

Bulletin becomes effective: Since the date of receiving

Manhours required: 0

Total number of pages: Title pages and see reason


manufacturer

Engineering data contained in this Bulletin are CAI APPROVED.



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, 7	0-1, 0-3, 2-5, 2-10, 2-11, 6-5, 6-6, 6-7, 7-1, 7-4, 7-5	Dec 20/95	L23/026a	Jan 26/96	
2.	0, 7	0-1, 0-3, 7-1, 7-4, 7-5, 7-6	Sep 20/96	L23/029a	Sep 23/96	
3	0, 1, 2, 3, 4, 7	0-1, 0-3, 1-1, 1-3, 1-4, 1-5, 2-10, 2-11, 3-1, 3-2, 3-3, 3-4, 3-5, 4-5, 4-6, 4-7, 7-4, 7-5, 7-6	Oct 30/96	L23/030a	Dec 2/96	



0.2. LIST OF EFFECTIVE PAGES

Pages identified as "Appr." provide information required to be furnished by the Federal Aviation Regulations.

Section	Page	Date	Section	Page	Date	
0	1	Oct 30/96	4	Appr. 15	Dec 1/93	
	2	Dec 6/93		Appr. 16	Dec 1/93	
	3	Oct 30/96		Appr. 17	Dec 1/93	
	4	Dec 1/93		Appr. 18	Dec 1/93	
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		Appr. 20		Dec 1/93		
		Appr. 21		Dec 1/93		
		Appr. 22		Dec 1/93		
1	1	Oct 30/96		5	Appr. 1	Dec 1/93
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	Appr. 6	Dec 1/93		6	Dec 20/95	
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		6		Oct 30/96		
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SECTION 1

General

CONTENTS

- 1.1 Introduction
- 1.2 Certification basis
- 1.3 Warnings, cautions and notes
- 1.4 Descriptive data
 - 1.5.1 Three-view drawing - to ser. No. xx 8320
 - 1.5.2 Three-view drawing - from ser. No.96 8401



1.4 DESCRIPTIVE DATA

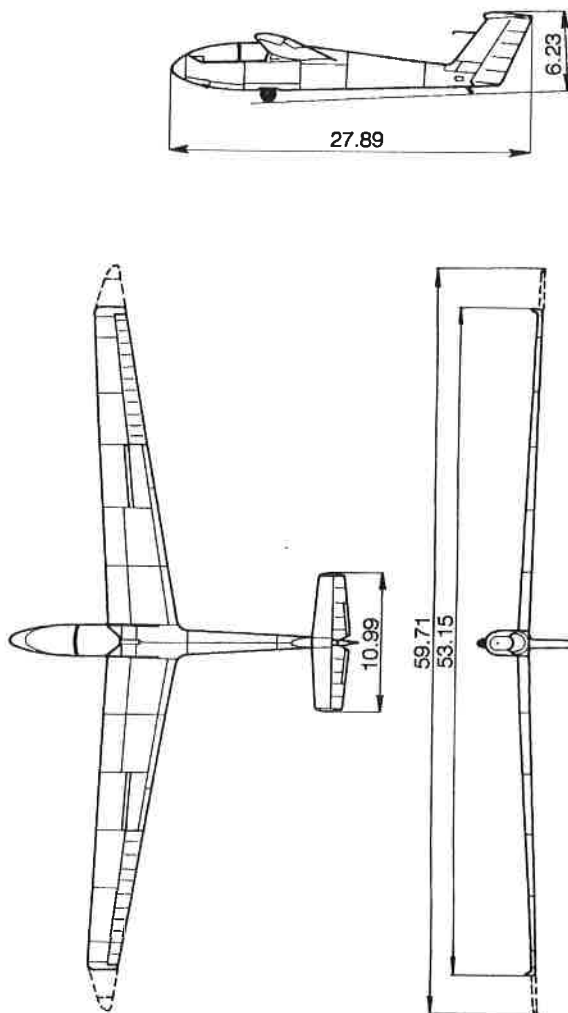
The L 23 SUPER - BLANÍK sailplane is a cantilever, high-wing, two-seat glider of all-metal structure. Wing tip extensions are optional.

Basic dimensions

Wing span	53.15 ft (16.2 m)
(with the installed wing tip extensions)	59.71 ft (18.2 m)
Note: If the wing tip with supporting wheel is installed wing span is	
	53.35 ft (16.26 m)
Length	27.89 ft(8.5 m)
Height	6.23 ft(1.9 m)
Wing area	206.13 sq ft(19.15 sq.m)
(with the installed wing tip extensions)	215.27 sq ft(20.00sq.m)
Aspect ratio	13.7
(with the installed wing tip extensions)	16.6
Mean aerodynamic chord	4.11 ft(1.253 m)

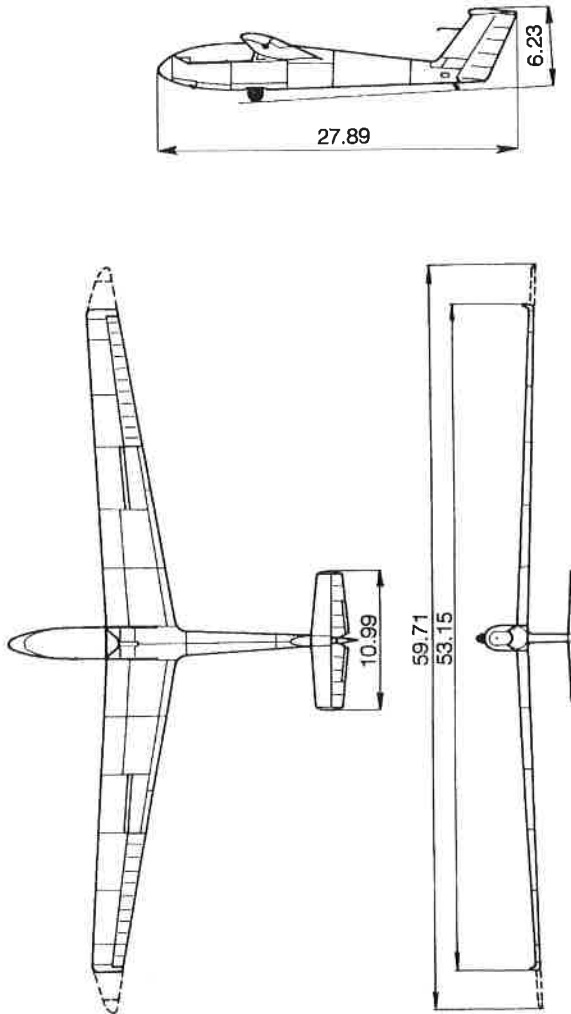


1.5.1 THREE - VIEW DRAWING (Dimensions in ft) - valid to ser. No. xx 8320





1.5.2 **THREE - VIEW DRAWING** (Dimensions in ft) - valid from ser. No. 96 8401

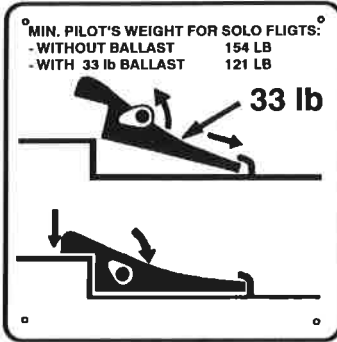




2.13 LIMITATIONS PLACARDS

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

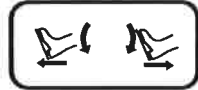
a) front cockpit



SEAT BACK



PEDAL ADJUSTMENT



AIR VENT



FRONT LIFT OFF
para 3.2.1
To ser. No. xx 8320

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 3.2.1

To ser. No. xx 8320



WHEEL BRAKE



LANDING GEAR



FRONT CANOPY JETTISON
see para 3.2.1

To ser. No. xx 8320



CANOPY LIFT OFF
From ser. No. 96 8401



CANOPY JETTISON
see para 3.2.2
From ser. No. 96 8401



BAGGAGE
(REAR SEAT ONLY)



L 23 SUPER - BLANIK

686 04 KUNOVICE
CZECH REPUBLIC

SAILPLANE FLIGHT MANUAL

Do - L 23. 1012.5

On customer's request:

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

If installed wing tip extensions:

ALL AEROBATIC MANOEUVRES
ARE PROHIBITED WITH
INSTALLED WING TIP EXTENSIONS

V_{NE} 124 KIAS
 V_{RA} 86 KIAS

Valid to ser. No. 96 8303:

OPERATING LIMITATIONS

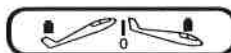
THE MARKINGS AND PLACARDS
INSTALLED IN THIS SAILPLANE CONTAIN
OPERATING LIMITATIONS WHICH MUST
BE COMPLIED WITH WHEN OPERATING IN
UTILITY CATEGORY. OTHER LIMITATIONS
ARE CONTAINED IN SAILPLANE FLIGHT
MANUAL.

MAX. GROSS WEIGHT 1124 LB

APPROVED MANOEUVRES:

LOOP SPIN
STALL TURN CHANDELLE(Climbing)
LAZY EIGHT STEEP TURN

SOLO FLIGHT FROM FRONT SEAT ONLY



TRIMMER



RELEASE

MAX. WINCH - LAUNCHING SPEED 65 KIAS
MAX. AERO - TOWING SPEED 81 KIAS
MAX. MANOEUVRING SPEED 81 KIAS

See para 2.2

Valid from ser. No. 96 8304:

OPERATING LIMITATIONS

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

MAX. GROSS WEIGHT 1124 LB

APPROVED MANOEUVRES:

LOOP SPIN
STALL TURN CHANDELLE(Climbing)
LAZY EIGHT STEEP TURN

SOLO FLIGHT FROM FRONT SEAT ONLY

Appr. ③
Oct 20/06



SECTION 3

Emergency procedures

CONTENTS

3.1 Introduction

3.2.1 Canopy jettison - valid to ser. No. XX 8320

3.2.2 Canopy jettison - valid from ser. No. 96 8401

3.3 Bailing Out

3.4 Stall recovery

3.5 Spin recovery

3.6 Spiral Dive Recovery



3.1 INTRODUCTION

Section 3 provides check-lists and amplified procedures for handling emergency situations.

3.2.1 CANOPY JETTISON (SEE FIG. 3 - 1) - valid to ser. No. xx 8320

WARNING: THE FRONT CANOPY MUST BE JETTISONED FIRST.

Front pilot

Red Canopy Jettison Lever
(FIG. 3-1, pos. 1)

ROTATE fully anticlockwise and HOLD.

Canopy

FORCE UPWARDS.

Rear pilot

Front canopy jettisoned

ROTATE canopy jettison levers (FIG. 3-1, pos.2) in the direction of arrows. LIFT rear canopy UP.

Front canopy not jettisoned

RELEASE safety belts

Red Front Canopy Jettison Lever

ROTATE fully counterclockwise and HOLD. FORCE Front Canopy UPWARDS. ROTATE Rear Canopy Jettison Levers in the Direction of Arrows. LIFT rear canopy UP.

3.2.2 CANOPY JETTISON (SEE FIG. 3 - 2) - valid from ser. No. 96 8401

Front or rear pilot

Red Canopy Jettison Lever

ROTATE fully counterclockwise and HOLD.

Canopy

FORCE UPWARDS.

3.3 BAILING OUT

Safety Belts

RELEASE and REMOVE from lap and shoulders

(Cont.)



Hand Holds

GRASP. STOOP legs below you
BAIL OUT over the side cockpit
rail.

3.4 STALL RECOVER

Low Speed Stall (One g)

PUSH control stick slightly.
CHECK airspeed within normal
operation range.

Stall at Speed (Accelerated)

PUSH control stick to reach
subcritical angle of attack.
ELIMINATE bank by rudder.

3.5 SPIN RECOVERY

Rudder

APPLY full deflection opposite to
sense of rotation RETURN to
neutral when rotation stopped.

Control Stick

PUSH forward slightly
simultaneously as rudder is
neutralized after rotation has
stopped.

3.6 Spiral Dive Recovery

Rudder and ailerons

USE to establish at nose - low
wings level condition

Control stick

INCREASE gently back pressure
to raise the nose to a level flight
attitude. Use caution not to
obtain excessive accelerations
(g) with back pressure during
the pull - up.

CANOPY JETTISON DURING FLIGHT - valid to ser. No. xx 8320

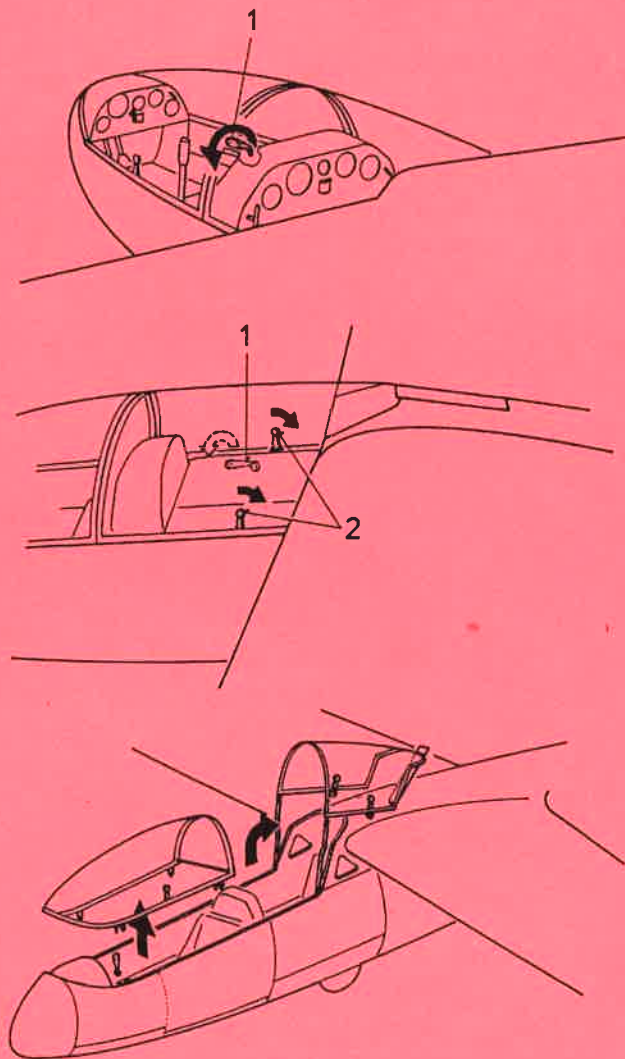


FIG. 3 - 1

CANOPY JETTISON DURING FLIGHT - valid from ser. No. 96 8401

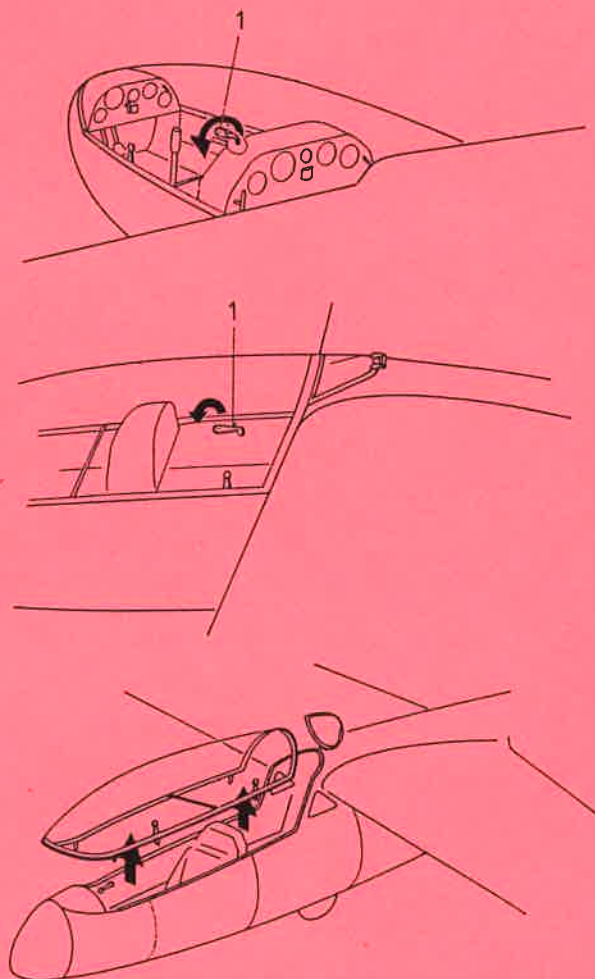


FIG. 3 - 2

Sequence of the walkaround inspection

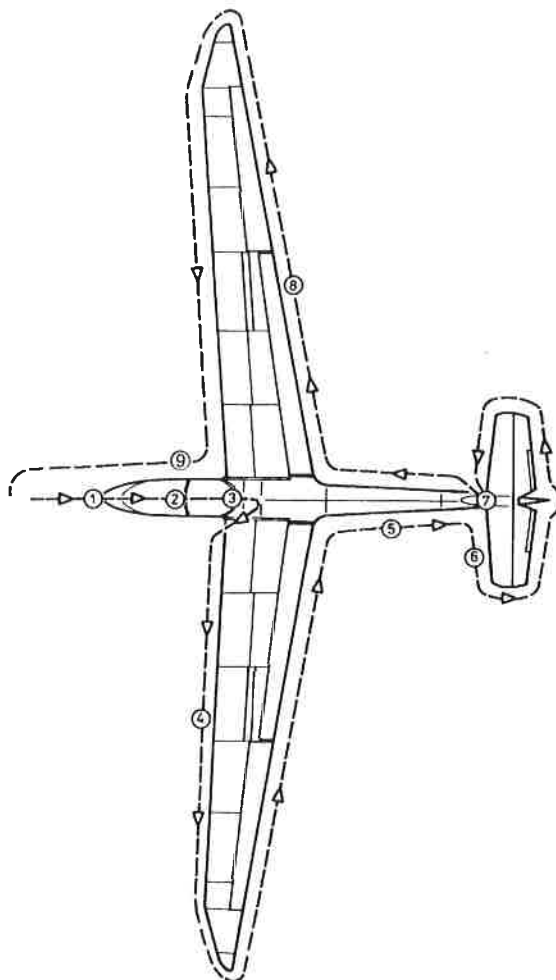


FIG. 4 - 1

(Cont.)

**4.3.1 WALKAROUND INSPECTION CHECKLIST**

Item No.	Subject	Check/activity
1	<u>Front fuselage section</u>	
	Fuselage skin	no damage
	Left & right static probes	ports clear
	Cockpit canopy surface	no damage or dirt
	Nose pitot tube	no damage or clogging
2	<u>Cockpit</u>	
	Instruments	no damage
	Altimeters	correct setting QFE (QNH)
	Radio station (if installed)	proper operation
	Front ventilation	for season
Safety belts	no damage	
3	<u>Landing gear</u>	
	Tire	no damage, correct inflation
4	<u>Left wing</u>	
	Wing skin including leading edge	no damage
	Wing-tip fairing (wing tip extension)	no damage or loose
	Aileron skin	no damage to fabric cover or trailing edge
	Ailerons	free movement
Airbrake locking hinges	locking no damage of hinges or control tie rods	

(Cont.)



Item No.	Subject	Check/ activity
5	<u>Rear fuselage section</u>	
	Inspection ports	cables, fasteners snug
	Fuselage skin	no damage
6	<u>Empennage</u>	
	Vertical stabilizer	no damage
	Compensator pickup	in place, plug removed
	Elevator	free movement
	Horizontal stabilizers	condition of locking wire on the front pin of the horizontal stabilizer (in front of the leading edge of the top part of the vertical stabilizer)
Rudder	free movement	
7	<u>Tail landing gear</u>	
	Landing gear attachment	no damage of attachment
8	<u>Right wing</u>	see Item 4 - left wing
9	<u>Front fuselage section</u>	
	Pins for canopy opening	proper position against hinges

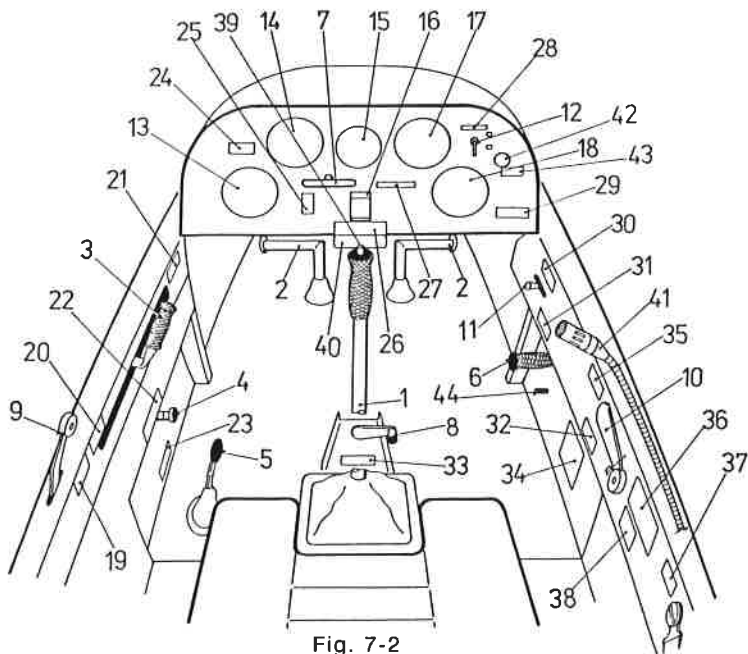
7.4.1 FRONT COCKPIT - STANDARD


Fig. 7-2

(1)Control column, (2)Rudder pedals, (3)Airbrake handle, (4)Elevator trim handle, (5)Wheel brake handle, (6)Landing gear handle, (7)Rope release mechanism, (8)Rudder pedals adjustment, (9)Front cockpit hood opening handle, (10)Handle for emergency release of the front cockpit hood, (11)Air vent handle, (12)Turn-and-bank indicator switch, (13)Altimeter, (14)Airspeed indicator, (15)Turn-and-bank Indicator, (16)Compass, (17) and (18)Vertical speed Indicators, (19)Label "Front cockpit hood opening" , (20)Label "Airbrakes extended", (21)Label "Airbrakes retracted", (22)Label "Elevator trim control", (23) Label "Wheel brake", (24)Label "No smoking", (25)Label "Tow release", (26)Label "Max. airspeeds", (27)Identification number, (28)Label "TURN-AND-BANK INDICATOR", (29)Label "Maneuvers with wing tlp extensions forbidden", (30)Label "Air vent", (31)Label "Landing gear extended", (32)Label "Landing gear retracted", (33)Label "Adjustment of pedals", (34)Label "Max. pilot weight", (35)Label "Front cockpit hood emergency release", (36)Label "Permitted maneuvers", (37)Label "Seat position", (38)Label "Center of gravity", (39)Radio control button, (40)Battery for turn-and-bank indicator, (41)Microphone, (42)Air vent pull rod with handle, (43)Label "Air vent", (44)Positional pin of landing gear opened and locked position (the landing gear handle must be located in front of the positional pin in flight direction)

Note: pos. (11) and (30) - valid to ser. No. XX 8320,
 pos. (42), (43) and (44) - valid from ser. No. 96 8401
 pos. (35) - from ser. No. 96 8401 Label "Canopy jettison"

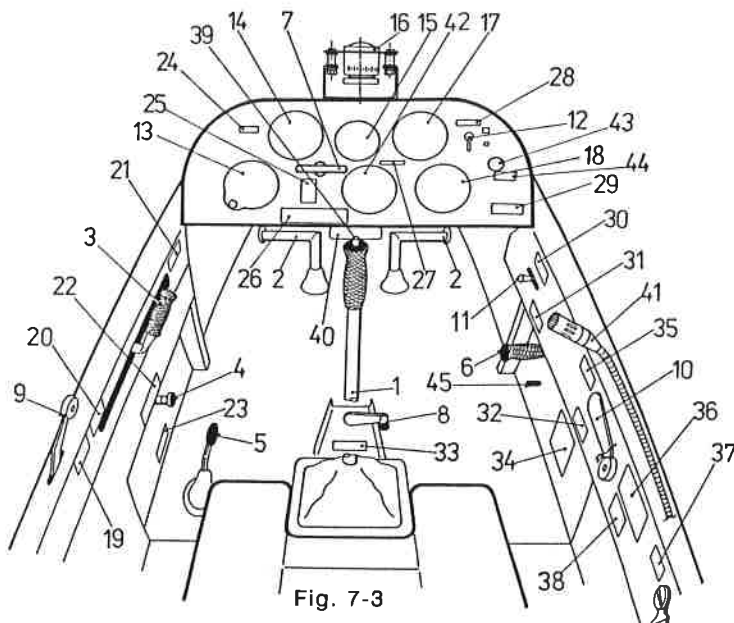
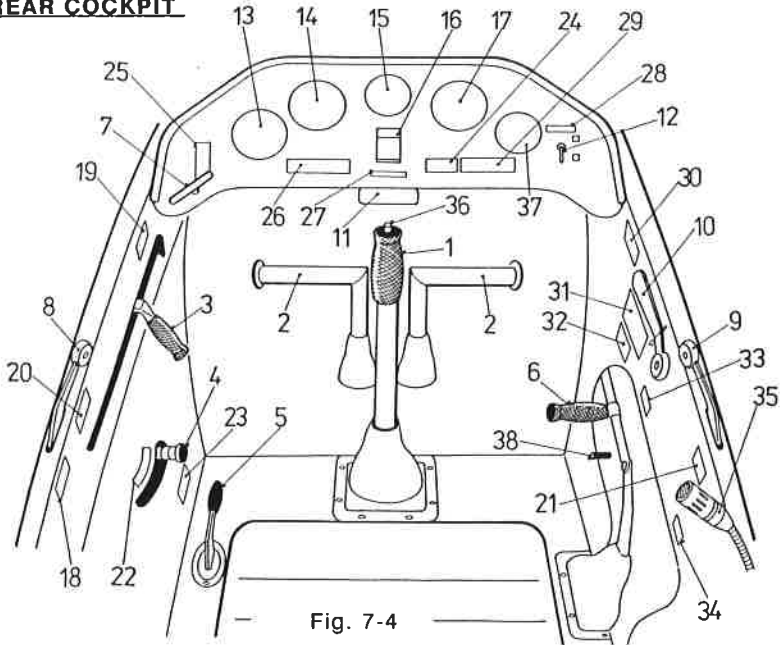
7.4.2 FRONT COCKPIT - OPTIONAL


Fig. 7-3

(1)Control column, (2)Rudder pedals, (3)Airbrake handle, (4)Elevator trim handle, (5)Wheel brake handle, (6)Landing gear handle, (7)Rope release mechanism, (8)Rudder pedals adjustment, (9)Front cockpit hood opening handle, (10)Handle for emergency release of the front cockpit hood, (11)Air vent handle, (12)Turn-and-bank indicator switch, (13)Altimeter, (14)Airspeed Indicator, (15)Turn-and-bank Indicator, (16)Compass, (17) and (18)Vertical speed Indicators, (19)Label "Front cockpit hood opening", (20)Label "Airbrakes extended", (21)Label "Airbrakes retracted", (22)Label "Elevator trim control", (23) Label "Wheel brake", (24)Label "No smoking", (25)Label "Tow release", (26)Label "Max. airspeeds", (27)Identification number, (28)Label "TURN-AND-BANK INDICATOR", (29)Label "Maneuvers with wing tip extensions forbidden", (30)Label "Air vent", (31)Label "Landing gear extended", (32)Label "Landing gear retracted", (33)Label "Adjustment of pedals", (34)Label "Max. pilot weight", (35)Label "Front cockpit hood emergency release", (36)Label "Permitted maneuvers", (37)Label "Seat position", (38)Label "Center of gravity", (39)Radio control button, (40)Battery for turn-and-bank indicator, (41)Microphone, (42)Vertical speed Indicator ILEC SC-7 (from ser. No. 968301), (43)Air vent pull rod with handle, (44)Label "Air vent", (45)Positional pin of landing gear opened and locked position (the landing gear handle must be located in front of the positional pin in flight direction)

Note: pos. (11) and (30) - valid to ser. No. XX 8320
 pos. (43), (44) and (45) - valid from ser. No. 96 8401
 pos. (35) - from ser. No. 96 8401 Label "Canopy jettison"

7.5 REAR COCKPIT


(1)Control column, (2)Rudder pedals, (3)Airbrake handle, (4)Elevator trim handle, (5)Wheel brake handle, (6)Landing gear handle, (7)Rope release mechanism, (8) and (9)Rear cockpit hood opening handle, (10)Handle for emergency release of the front cockpit hood, (11)Battery for turn-and-bank indicator, (12)Turn-and-bank indicator switch, (13)Altimeter, (14)Airspeed indicator, (15)Turn-and-bank indicator, (16)Compass, (17)Vertical speed indicators indicator, (18)Label "Airbrakes extended", (19)Label "Airbrakes retracted", (20) and (21)Label "Rear cockpit hood opening", (22)Label "Elevator trim control", (23)Label "Wheel brake", (24)Label "No smoking", (25)Label "Tow release", (26)Label "Max. airspeeds", (27)Identification number, (28)Label "TURN-AND-BANK INDICATOR", (29)Label "Maneuvers with wing tip extensions forbidden", (30)Label "Front cockpit hood emergency release", (31)Label "Permitted maneuvers", (32)Label "Center of gravity", (33)Label "Landing gear extended", (34)Label "Landing gear retracted", (35)Microphone, (36)Radio control button, (37)Second indicator ILEC RAZ(from ILEC SC-7 system)optional from ser. No. 968301, (38)Positional pin of landing gear opened and locked position (the landing gear handle must be located in front of the positional pin in flight direction)

Note: pos. (9) and (21) - valid to ser. No. XX 8320

pos. (20) - from ser. No. 968401 Label "Canopy lift off"

pos. (30) - from ser. No. 968401 Label "Canopy jettison"

pos. (10) - from ser. No. 968401 Handle for canopy jettison

pos. (38) - from ser. No. 968401