

# MANDATORY BULLETIN

MB No: **L23/032a**

Concerning: Flight Manuals for the L23 SUPER - BLANIK (English and German version)

Reason: Flight Manuals effectivity extension for the „model 96“:

1. Basic dimensions
2. Canopy jettison
3. Front cockpit - air vent control change
4. Minor changes

Flight Manual **Do-L23.1012.3 (CAN):**

Cancel original pages: 0-1,0-3,1-1,1-3,1-4,2-3,2-9,3-1,3-2,3-3,3-4,4-5,4-7,7-4,7-5  
and insert new pages: 0-1,0-3,1-1,1-3,1-4,1-5,2-3,2-9,3-1,3-2,3-3,3-4,3-5,4-5,4-7,  
7-4 and 7-5 dated Mar 14/97.

Flight Manual **Do-L23.1012.4 (GER):**

Cancel original pages: 0-1,0-2,1-1,1-3,1-4,1-5,2-3,3-1,3-2,3-4,3-5,4-4,7-3,7-4  
and insert new pages: 0-1,0-2,1-1,1-3,1-4,1-5,1-6,2-3,3-1,3-2,3-4,3-5,3-6,3-7,4-4,  
7-3 and 7-4 dated 14.3.1997.

Flight Manual **Do-L23.1012.6 (BRAZ):**

Cancel original pages: 0-1,0-3,1-1,1-3,1-4,2-3,2-9,3-1,3-2,3-4,3-5,4-5,4-7,7-4,7-5  
and insert new pages: 0-1,0-3,1-1,1-3,1-4,1-5,2-3,2-9,3-1,3-2,3-4,3-5,3-6,3-7,4-5,4-7,  
7-4 and 7-5 dated Mar 14/97.

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.....  
manufacturer

Engineering data contained in this Bulletin are CAI APPROVED.

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**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	
2.	0, 7	0-1, 0-3, 7-1, 7-4, 7-5	Dec 20/95	L23/026a	Jan 26/96	
3.	0, 6, 7	0-1, 0-3, 6-8, 7-4	Sep 20/96	L23/029a	Sep 23/96	
4.	0, 1, 2, 3, 4, 7	0-1, 0-3, 1-1, 1-3, 1-4, 1-5, 2-3, 2-9, 3-1, 3-2, 3-3, 3-4, 3-5, 4-5, 4-7, 7-4, 7-5	Mar 14/97	L23/032a	Mar 28/97	



0.2. LIST OF EFFECTIVE PAGES

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	4	Dec 6/93		Appr. 22	Dec 6/93	
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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



# L 23 SUPER - BLANIK

686 04 KUNOVICE  
CZECH REPUBLIC

## SAILPLANE FLIGHT MANUAL

Do - L 23. 1012.3

### 1.4 DESCRIPTIVE DATA

The L 23 SUPER - BLANIK sailplane is a cantilever, high-wing, two-seat glider of all-metal structure. It is possible to use wing tip extensions.

#### Basic dimensions

Wing span . . . . . 16.2 m (53.15 ft)  
(with the installed wing tip extensions) . . . . . 18.2 m (59.71 ft)

Note: If the wing tip with supporting  
wheel is installed wing span is . . . . . 16.26 m(53.35 ft)

Length . . . . . 8.5 m (27.89 ft)

Height . . . . . 1.9 m (6.23 ft)

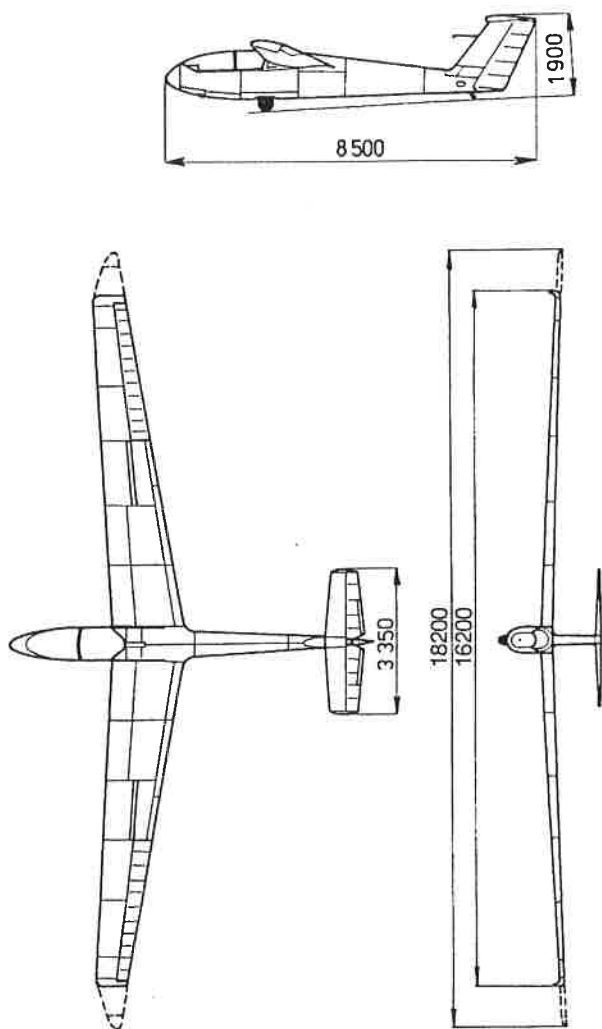
Wing area . . . . . 19.15 sq.m (206.13 sq ft)  
(with the installed wing tip extensions) . . . . . 20.00sq.m (215.27 sq ft)

Aspect ratio . . . . . 13.7  
(with the installed wing tip extensions) . . . . . 16.6

Mean aerodynamic chord . . . . . 1.253 m (4.11 ft)

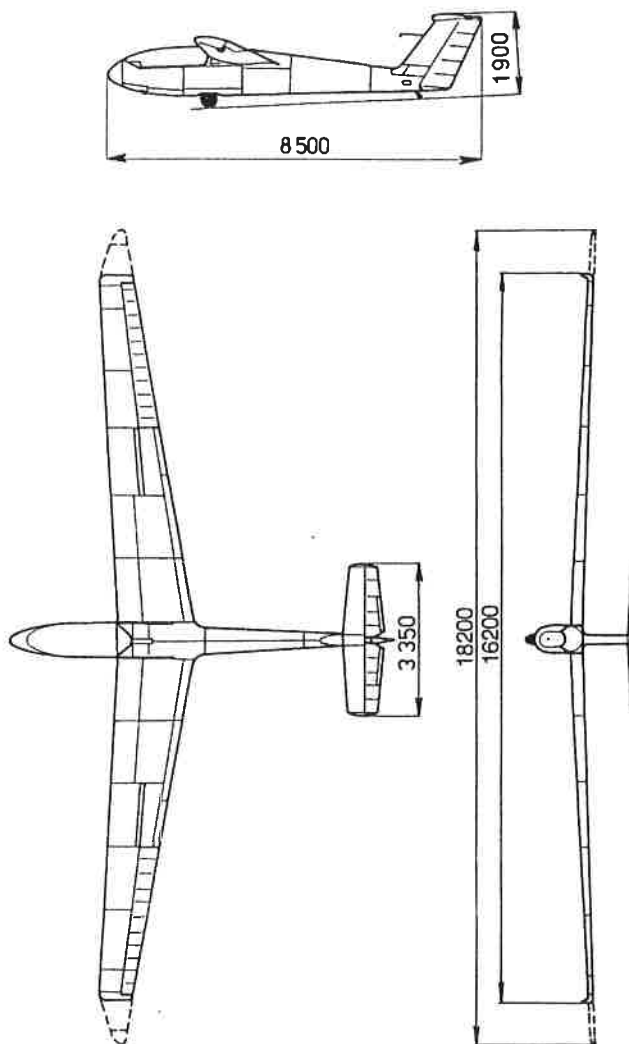


1.5.1 THREE - VIEW DRAWING ( Dimensions in mm ) - valid to ser. No. XX 8320





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





Note:

*VNE* airspeed limits above 4 200 m (13 780 ft)  
Pressure Altitude are reduced as follows:

Pressure Altitude m	5000	6000	7000	8000	9000	10 000
<i>VNE</i> km/h - without extensions	243	230	221	211	202	191
- with extensions	223	210	201	191	182	171

Pressure Altitude ft	13 780	20 000	25 000	30 000	35 000
<i>VNE</i> KIAS - without extensions	135	124	116	108	100
- with extensions	124	114	105	97	89

### 2.3 AIRSPEED INDICATOR MARKINGS

Marking	km/h (KIAS) (value - range)	Significance
Green arc	66 - 160 (36 - 86)	Normal Operating Range. (Lower limit is maximum weight 1.1 vs <sub>1</sub> at most forward c.g. Upper limit is rough air speed)
Yellow arc	160 - 250 (86 - 135)	Manoeuvres must be conducted with caution and only in smooth air.
Red line	250 (135)	Maximum speed for all operations
Yellow triangle	75 (41)	Approach speed at maximum weight.
	90* (49*)	

NOTE :

*yellow triangle 90\*(49\*) valid from  
ser. No. 97 8402*





2.12 LIMITATIONS PLACARDS

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

a) front cockpit

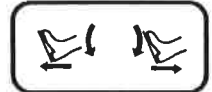
MIN. PILOT'S WEIGHT FOR SOLO FLIGHTS:  
 - WITHOUT BALLAST 70 kg (154 LB)  
 - WITH 15 kg BALLAST 55 kg (121 LB)

**15 kg**  
**33 lb**

SEAT BACK



PEDAL ADJUSTMENT



AIR VENT



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

CENTRE OF GRAVITY RANGE

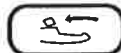
FRONT LIMIT . . 23 % MAC

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



LANDING GEAR



FRONT CANOPY JETTISON  
see para 3.2.1

To ser. No. xx 8320



WHEEL BRAKE



CANOPY LIFT OFF  
From ser. No. 96 8401



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



BAGGAGE  
( REAR SEAT ONLY )



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

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

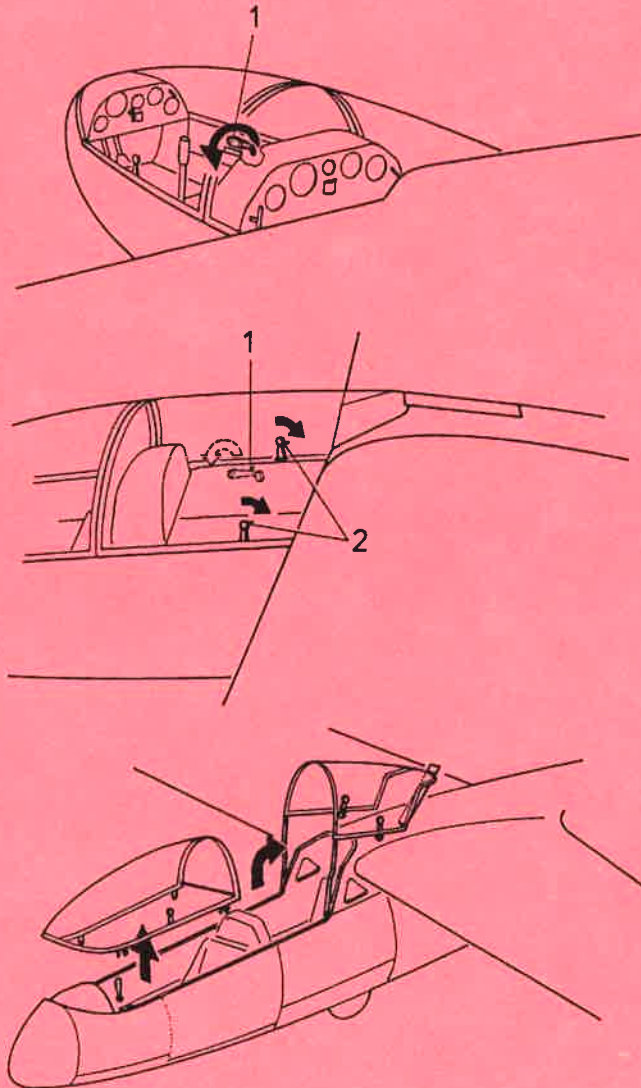


FIG. 3 - 1

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

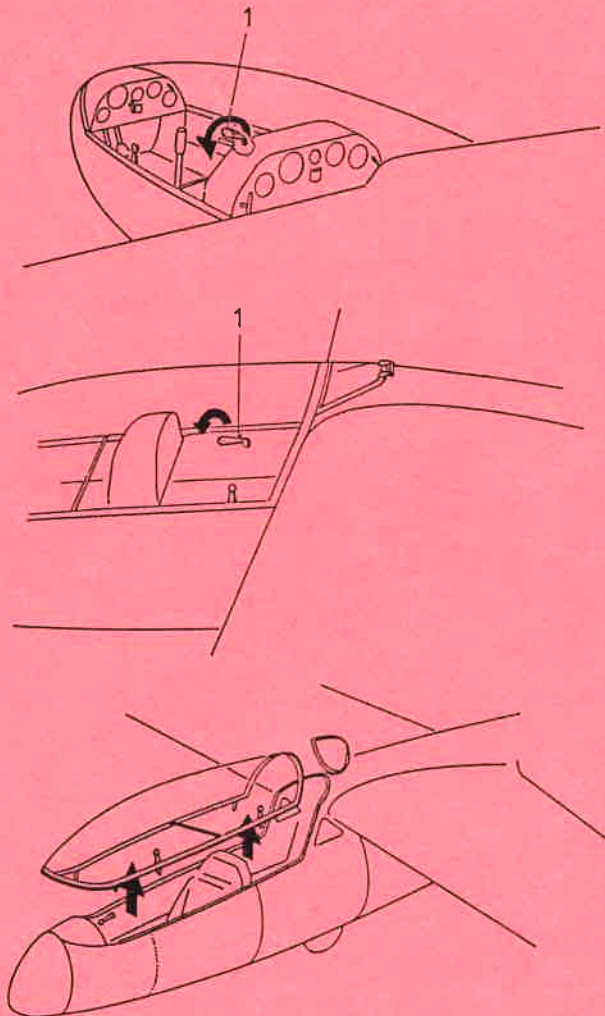


FIG. 3 - 2

Sequence of the walkaround inspection

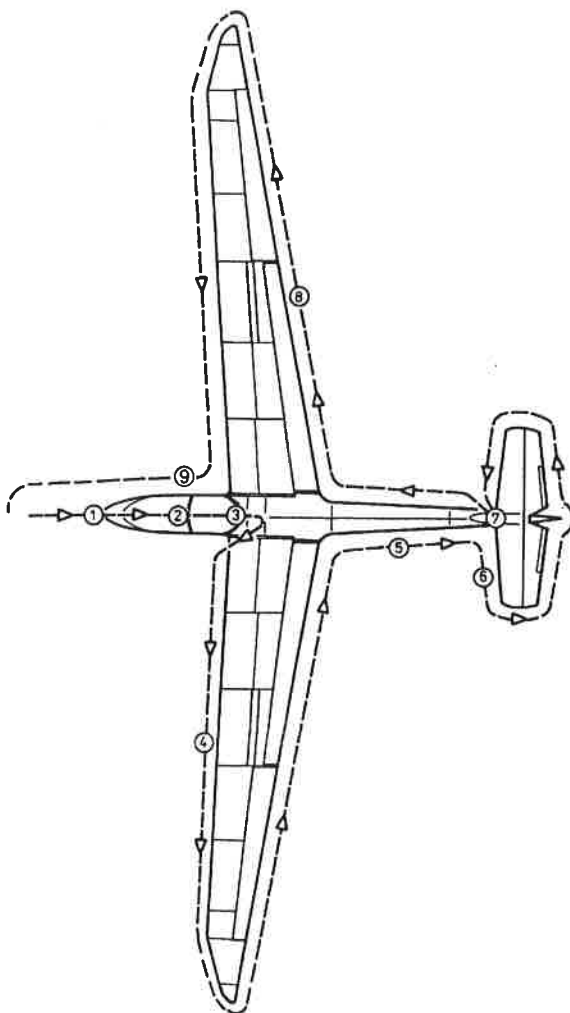


FIG. 4 - 1

( Cont. )



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Item No.	Subject	Check/ activity
5	<u>Rear fuselage section</u>	
	Fuselage skin	no damage
6	<u>Empennage</u>	
	Vertical stabilizer	no damage
	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



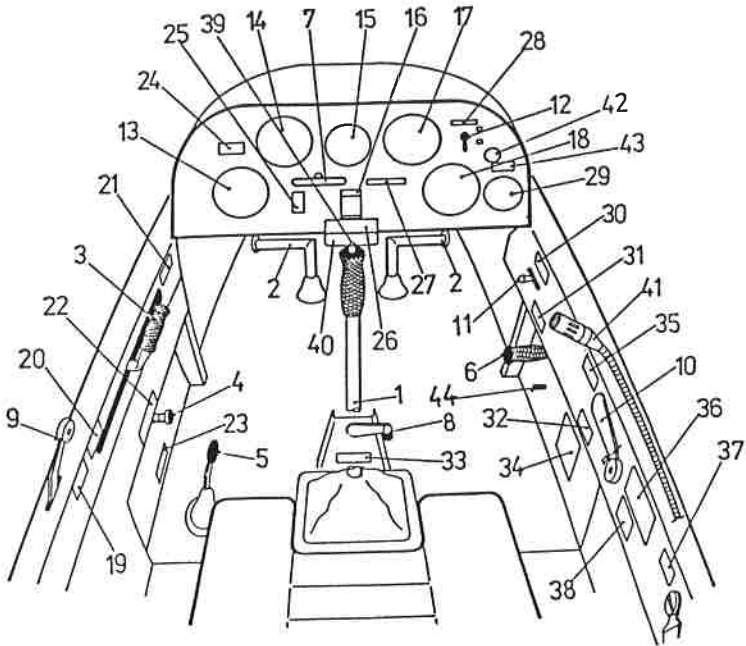
**7.4 FRONT COCKPIT**


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)Accelerometer, (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 manoeuvres", (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"

7.5 REAR COCKPIT

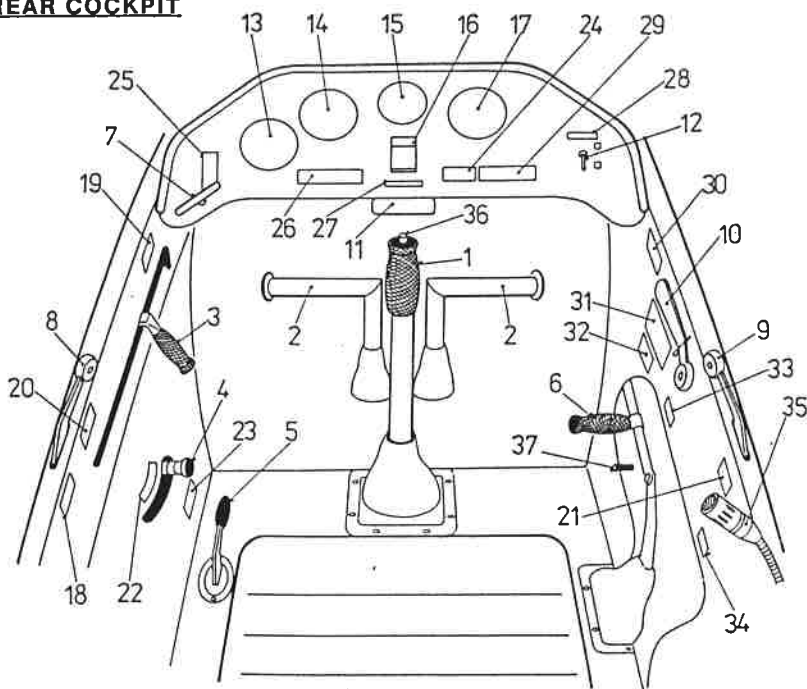


Fig. 7-3

(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) 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 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 "Manoeuvres with wing tip extensions forbidden", (30)Label "Front cockpit hood emergency release", (31)Label "Permitted manoeuvres", (32)Label "Center of gravity", (33)Label "Landing gear extended", (34)Label "Landing gear retracted", (35)Microphone, (36)Radio control button, (37)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. (37) - from ser. No. 968401