

FLIGHT MANUAL OF THE ZLIN Z 242 L AIRCRAFT

Applicable for S/N 0490, 0541, 0651-0659 incl.

Production No./Series

Registration Mark

Manufacturer ZLIN AIRCRAFT a.s.,
765 81 Otrokovice
CZECH REPUBLIC

Category AEROBATIC (A)
UTILITY (U)
NORMAL (N)

Certification Basis FAR PART 23 with incorporated Amendments as to No.
23-36 inclusive

THE CZECH VERSION OF THIS FLIGHT MANUAL HAS BEEN APPROVED BY THE CIVIL
AVIATION AUTHORITY - PRAGUE ON : 27.4.1992 BY DOC. NO. 2340/814/92Vy

THE ENGLISH VERSION HAS BEEN TRANSLATED WITH CARE AND IS ACCURATE TO THE
BEST OF OUR KNOWLEDGE. HOWEVER IN ALL OFFICIAL MATTERS THE ORIGINAL CZECH
VERSION IS THE AUTHORITATIVE DOCUMENT.

THIS DOCUMENT MUST BE CARRIED IN THE AIRPLANE AT ALL TIMES. COMPLIANCE WITH
SECTION 2 LIMITATIONS IS MANDATORY.

Revision Nr. 9 to Z 242 L Aircraft Flight Manual (without Doc. No.) is EASA approved under
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ZLIN AIRCRAFT a.s.
OtrokoviceZ 242 L
Flight ManualLIST OF EFFECTIVE PAGES

Page No.	Date of issue	Page No.	Date of issue	Page No.	Date of issue
0-1	22.12.2010	2-18	27. 4.1992	4-19	14. 8.1992
0-2	-	2-19	27. 4.1992	4-20	27. 4.1992
0-3	27. 4.1992	2-20	14. 8.1992	4-21	27. 4.1992
0-4	-	2-21	14. 8.1992	4-22	14. 8.1992
0-5	22.12.2010	2-22	22.12.2010	4-23	27. 4.1992
0-6	24.11.2006	2-23	27. 4.1992	4-24	27. 4.1992
		2-24	27. 4.1992	4-25	27. 4.1992
		2-25	27. 4.1992	4-26	27. 4.1992
1-1	27. 4.1992	2-26	27. 4.1992	4-27	30. 4.1996
1-2	-	2-27	27. 4.1992	4-28	27. 4.1992
1-3	27. 4.1992	2-28	27. 4.1992	4-29	27. 4.1992
1-4	22.12.2010	2-29	27. 4.1992	4-30	27. 4.1992
1-5	27. 4.1992	2-30	14. 8.1992	4-31	27. 4.1992
1-6	27. 4.1992			4-32	30. 4.1996
1-7	27. 4.1992			4-33	27. 4.1992
1-8	27. 4.1992	3-1	27. 4.1992	4-34	27. 4.1992
1-9	27. 4.1992	3-2	-	4-35	27. 4.1992
1-10	27. 4.1992	3-3	27. 4.1992	4-36	30. 4.1996
1-11	27. 4.1992	3-4	27. 4.1992		
1-12	27. 4.1992	3-5	27. 4.1992	5-1	27. 4.1992
1-13	27. 4.1992	3-6	27. 4.1992	5-2	-
1-14	27. 4.1992	3-7	27. 4.1992	5-3	27. 4.1992
1-15	27. 4.1992	3-8	27. 4.1992	5-4	14. 8.1992
1-16	27. 4.1992	3-9	14. 8.1992	5-5	14. 8.1992
1-17	27. 4.1992	3-10	14. 8.1992	5-6	27. 4.1992
1-18	27. 4.1992	3-11	27. 4.1992	5-7	27. 4.1992
1-19	14. 8.1992	3-12	14. 8.1992	5-8	27. 4.1992
1-20	27. 4.1992	3-13	27. 4.1992	5-9	27. 4.1992
		3-14	-	5-10	27. 4.1992
				5-11	27. 4.1992
2-1	27. 4.1992	4-1	27. 4.1992	5-12	27. 4.1992
2-2	-	4-2	-	5-13	27. 4.1992
2-3	27. 4.1992	4-3	27. 4.1992	5-14	27. 4.1992
2-4	2. 2.1995	4-4	27. 4.1992	5-15	27. 4.1992
2-5	14. 8.1992	4-5	27. 4.1992	5-16	-
2-6	14. 8.1992	4-6	30. 9.1998		
2-7	14. 8.1992	4-7	27. 4.1992	6-1	27. 4.1992
2-8	14. 8.1992	4-8	14. 8.1992	6-2	-
2-9	27. 4.1992	4-9	27. 4.1992	6-3	27. 4.1992
2-10	14. 8.1992	4-10	14. 8.1992	6-4	27. 4.1992
2-11	27. 4.1992	4-11	14. 8.1992	6-5	27. 4.1992
2-12	22.12.2010	4-12	27. 4.1992	6-6	27. 4.1992
2-13	22.12.2010	4-13	27. 4.1992	6-7	27. 4.1992
2-14	2. 2.1995	4-14	14. 8.1992	6-8	14. 8.1992
2-14a	15.4. 2003	4-15	14. 8.1992	6-9	27. 4.1992
2-14b	15.4. 2003	4-16	27. 4.1992	6-10	27. 4.1992
2-15	24.11.2006	4-17	27. 4.1992	6-11	27. 4.1992
2-16	24.11.2006	4-18	27. 4.1992		
2-17	27. 4.1992				

NOTE:

The above mentioned values are valid for oils stated in table 2.11.3. For MS 20 oil is highest permissible temperature 85°C.

2.12. OIL TANK FILLING

MAXIMUM PERMISSIBLE QUANTITY 8 L (8 QUART)

MINIMUM PERMISSIBLE QUANTITY 4 L (4 QUART)

2.13 AIRSPEED LIMITATIONS

Airspeed	Symbol		Category			
			Acrobatic (A) Utility (U)		Normal (N)	
Never Exceed Speed	V_{NE}	knots	172	170	172	170
		km/h	319	315	319	315
Normal Operating Limit Speed	V_{NO}	knots	135	135	135	135
		km/h	250	250	250	250
Design Maneuvering Speed	V_A	knots	143 (A) 134 (U)	141 (A) 132 (U)	121	119
		km/h	265 (A) 248 (U)	262 (A) 245 (U)	224	221
Maximum Permissible Flaps Extended Speed	V_{FE}	knots	99	100	99	100
		km/h	184	185	184	185
Maximum Permissible Snap Maneuver Speed		knots	94	96	-	-
		km/h	175	178	-	-

2.14 AIRSPEED INDICATOR MARKINGS IN COLOUR

Instrument		Red radial line	Yellow arc	Green arc	White arc
Airspeed Indicator IAS	knots	172	135 - 172	60 - 135	50 - 99
	km/h	319	250 - 319	111 - 250	93 - 184
Markings reading		Limit value	Caution range	Normal operation range	Wing flaps extended
				Operating range	

CAUTION:

COLOURED MARKINGS OF THE AIRSPEED INDICATOR ARE PROVIDED FOR RANGE OF SPEEDS IN ACROBATIC CATEGORY.

2.15 LOAD FACTORS AND MANEUVERING ENVELOPE

Category		Load factor "g"	
		+	-
Acrobatic	(A)	6,0	3,5
Utility	(U)	5,0	3,0
Normal	(N)	3,8	1,52

2.26 **PLACARD**

THE FOLLOWING PLACARDS ARE LOCATED IN THE AIRCRAFT COCKPIT:

2.26.1 **Limitations, Prohibitions, Cautions**

(1)

EXCEPT AS MAY BE OTHERWISE INDICATED ON A PLACARD THE MARKINGS AND PLACARDS INSTALLED IN THIS AIRPLANE CONTAIN OPERATING LIMITATIONS WHICH MUST BE COMPLIED WITH WHEN OPERATING THIS AIRPLANE IN THE ACROBATIC CATEGORY. OTHER OPERATING LIMITATIONS WHICH MUST BE COMPLIED WITH WHEN OPERATING THIS AIRPLANE IN THIS CATEGORY OR IN THE UTILITY AND NORMAL CATEGORY ARE CONTAINED IN THE AIRPLANE FLIGHT MANUAL.

**APPROVED ACROBATIC MANEUVRES AND
RECOMMENDED ENTRY SPEEDS IAS knots**

LOOP	MIN.	130
IMMELMAN TURN	MIN.	140
HALF - ROLL AND DIVE OUT	MAX.	86
STALLED TURN	MIN.	119
ROLL	MIN.	97
SNAP ROLL	MAX.	94
SPIN		65
OUTSIDE LOOP FROM THE NORMAL FLIGHT	MAX.	65
OUTSIDE LOOP FROM THE INVERTED FLIGHT	MIN.	140
INVERTED SPIN		70

INTENTIONAL SPINS WITH WING FLAPS EXTENDED ARE PROHIBITED.
RECOVERY FROM NORMAL SPIN: 1. APPLY FULL RUDDER OPPOSITE TO THE
DIRECTION OF ROTATION
2. CONTROL STICK - PUSH FORWARD

(2)

DESIGN MANEUVERING SPEED V_A	IAS knots	143
MAXIMUM SPEED FOR SNAP MANEUVRES	IAS knots	94

(3)

a)

SMOKING PROHIBITED

b)

FLIGHT INTO KNOWN ICING CONDITIONS IS PROHIBITED

(4)

ACROBATICS WITH FUEL IN AUXILIARY
TANKS PROHIBITED