

**MANDATORY SERVICE BULLETIN Z 142C/18a – Rev. 1**  
**Z 242L/38a – Rev. 1**

“SAFETY RELATED”

Engineering aspects are CAA-CZ approved

- 1. DATE:** April 15, 2003
- 2. APPLICABLE TO:** Z 142C aircraft from S/N 0561 inclusive  
Z 142C aircraft up to S/N 0560 inclusive with simultaneous accomplishment of Mandatory Service Bulletin Z 142C/19a – Rev. 1 or Z 142C/19a.  
  
All Z 242L aircraft from S/N 0657 inclusive.  
Z 242L aircraft up to S/N 0656 inclusive with simultaneous accomplishment of Mandatory Service Bulletin Z 242L/27a – Rev. 2 or Rev. 1.
- 3. REASON:** Precise definition of safe life-time of the ZLIN Z 142C and Z 242L aircraft.
- 4. ACTIONS REQUIRED:**
- 4.1** Safe life time of the Z 142C and Z 242L aircraft with strengthened wings operated within CAA-FAA load spectrum is **5500 hours TIS without Acrobatic and Utility limitations.**
- 4.2** Aerobatic or Utility operation of the Z 142C and Z 242L aircraft is **limited to 700 hours TIS with total safe life time of 5500 hours TIS for operation over the CAA-FAA load spectrum.**  
Operation only in Normal (N) category is permitted after reaching 700 hours TIS in Aerobatic (A) and Utility (U) categories of operation over the CAA-FAA spectrum.

Note:

Aircraft operator shall record information of aerobatic flights to Aircraft Log Book.

**Aerobatic flight** is a flight from take-off to landing during which aerobatic maneuvers permitted in the Flight Manual for Aerobatic (A) and Utility (U) categories are performed. Aerobatic flights are marked in the Aircraft Log Book by letter A.

- 4.3** Cancel Mandatory Bulletins:  
Z 142C/1, Z 242/2,  
Z 142C/14a, Z 242L/33a  
Z 242L/28a  
Z 142C/18a, Z 242L/38a
- 4.4** Corresponding revision of the Z 142C and Z 242L aircraft manuals.
- 5. ACCOMPLISHMENT:** Immediately after receipt of this bulletin.
- 6. PERFORMED BY:** Operator (replacement of pages in aircraft manuals).
- 7. COST COVERED BY:** Operator.
- 8. MATERIAL:** New aircraft manuals pages – see Attachments.
- 9. PROCEDURES:** Replace original pages of aircraft manuals with new ones and record changes performed into Log of Revisions.
- 9.1** Z 242L Flight Manual, Czech version, without Doc. No.  
- remove pages 0-1; 0-5; 1-4  
- insert new pages of Revision No. 7 dated 15. 4. 2003 – see Attachments.
- 9.2** Z 242L Flight Manual, English version, without Doc. No.  
- remove pages 0-1; 0-5; 1-4  
- insert new pages of Revision No. 7 dated 15. 4. 2003 – see Attachments.
- 9.3** Z 242L Flight Manual, English version, Doc. No. 003.012 (validity for aircraft up to S/N 0689 inclusive).  
- remove pages 0-1; 0-5; 1-4a  
- insert new pages of Revision No. 10 dated 15. 4. 2003 – see Attachments.

- 9.4** Z 242L Flight Manual, English version, Doc. No. 003.012  
(validity for aircraft from S/N 0691 inclusive)
- remove pages 0-1; 0-5; 1-4a
  - insert new pages of Revision No. 10 dated 15. 4. 2003 – see Attachments.
- 9.5** Z 142C Flight Manual – English version  
(validity for all Z 142C aircraft)
- remove pages 0-1; 0-5; 1-4
  - insert new pages of Revision No. 8 dated 15. 4. 2003 – see Attachments.
- 9.6** Z 242L Maintenance Manual, Vol. I, Czech version, Doc. No. 003.021.1  
(validity for all Z 242L aircraft)
- remove pages 0-3; 0-4; 0-5; 9-1; 9-2
  - insert new pages of Revision No. 11 dated 15. 4. 2003 – see Attachments.
- 9.7** Z 242L Maintenance Manual, Vol. I, English version, Doc. No. 003.022.1  
(validity for all Z 242L aircraft)
- remove pages 0-3; 0-4; 0-6; 9-1; 9-2
- insert new pages of Revision No. 11 dated 15. 4. 2003 – see Attachments.
- 9.8** Z 142C Maintenance Manual, Vol. I, English version  
(validity for all Z 142C aircraft)
- remove pages 0-3; 0-4; 9-1; 9-2; 9-3; 9-4; 9-5; 9-6
  - insert new pages of Revision dated 15. 4. 2003 – see Attachments.

**10. ATTACHMENTS:**

New sheets of aircraft manuals:

Z 142C Flight Manual: 0-1; 0-5; 1-4; 2-9a; 2-9b.

Z 242L Flight Manual:

Czech version, without Doc. No.:

0-1; 0-5; 1-4; 2-13a; 2-13b.

English version, without Doc. No.:

0-1; 0-5; 1-4; 2-14a 2-14b.

English version, Doc. No. 003.012 (for aircraft up to S/N 0689 inclusive):

0-1; 0-5; 1-4a; 2-16a; 2-16b.

English version, Doc. No. 003.012 (for aircraft from S/N 0691 inclusive):

0-1; 0-5; 1-4a; 2-16a; 2-16b.

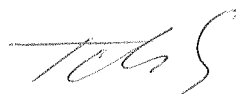
Z 142C Maintenance Manual, Vol. I:

0-3; 0-4; 0-6; 9-1; 9-2; 9-3; 9-4.

Z 242L Maintenance Manual, Vol. I:

Doc. No. 003.021.1: 0-3; 0-4; 0-5; 9-1; 9-2; 9-3; 9-4.

Doc. No. 003.022.1: 0-3; 0-4; 0-6; 9-1; 9-2; 9-3; 9-4.



.....  
**Dušan Totek**  
Chief designer

**Contact address:**

MORAVAN – AEROPLANES, Inc.  
ZLIN Service  
765 81 Otrokovice  
Czech Republic

Bulletin replaced by Z242L/51a and/or Z242L/52a

**LIST OF EFFECTIVE PAGES**

Page	Date of issue
0 - 1	Oct 15, 2002
0 - 2	Mar 20, 2000
0 - 3	Apr 15, 2003
0 - 4	Apr 15, 2003
0 - 5	Oct 15, 2002
0 - 6	Apr 15, 2003
0 - 7	Mar 1, 1996
0 - 8	Mar 1, 1996
1 - 1	Mar 1, 1996
1 - 2	Mar 1, 1996
1 - 3	Mar 1, 1996
1 - 4	Mar 1, 1996
1 - 5	Mar 20, 2000
1 - 6	Mar 1, 1996
1 - 7	Mar 1, 1996
1 - 8	Mar 1, 1996
1 - 9	Mar 1, 1996
1 - 10	Mar 1, 1996
1 - 11	Mar 1, 1996
1 - 12	Mar 1, 1996
2 - 1	Mar 1, 1996
2 - 2	Oct 15, 2002
2 - 3	Mar 1, 1996
2 - 4	Mar 1, 1996
2 - 5	Oct 15, 2002
2 - 6	Oct 15, 2002
2 - 7	Mar 1, 1996
2 - 8	Mar 1, 1996
2 - 9	Mar 1, 1996
2 - 10	Oct 15, 2002
2 - 11	Oct 15, 2002
2 - 11A	Oct 15, 2002
2 - 11B	Oct 15, 2002
2 - 12	Mar 1, 1996
2 - 13	Mar 1, 1996
2 - 14	Mar 20, 2000
2 - 15	Oct 15, 2002
2 - 16	Mar 1, 1996
2 - 17	Mar 1, 1996
2 - 18	Oct 15, 2002
2 - 18A	Oct 15, 2002
2 - 18B	Oct 15, 2002
2 - 19	Mar 1, 1996
2 - 20	Mar 1, 1996
2 - 21	Mar 1, 1996

Page	Date of issue
2 - 22	Mar 20, 2000
2 - 23	Mar 20, 2000
2 - 24	Mar 1, 1996
2 - 25	Mar 1, 1996
2 - 26	Mar 1, 1996
2 - 27	Mar 1, 1996
2 - 28	Mar 1, 1996
2 - 29	Oct 15, 2002
2 - 30	Mar 1, 1996
2 - 31	Mar 1, 1996
2 - 32	Oct 15, 2002
2 - 33	Oct 15, 2002
2 - 33A	Oct 15, 2002
2 - 33B	Oct 15, 2002
2 - 34	Oct 15, 2002
2 - 35	Oct 15, 2002
2 - 36	Oct 15, 2002
2 - 37	Mar 1, 1996
2 - 38	Mar 20, 2000
2 - 39	Mar 1, 1996
2 - 40	Mar 1, 1996
2 - 41	Oct 15, 2002
2 - 42	Mar 1, 1996
2 - 43	Mar 1, 1996
2 - 44	Mar 1, 1996
2 - 45	Mar 1, 1996
2 - 46	Mar 1, 1996
2 - 47	Mar 1, 1996
2 - 48	Mar 1, 1996
2 - 49	Mar 1, 1996
2 - 50	Mar 1, 1996
2 - 51	Oct 15, 2002
2 - 52	Oct 15, 2002
2 - 53	Oct 15, 2002
2 - 53A	Oct 15, 2002
2 - 53B	Oct 15, 2002
2 - 53C	Oct 15, 2002
2 - 53D	Oct 15, 2002
2 - 54	Oct 15, 2002
2 - 55	Oct 15, 2002
2 - 56	Oct 15, 2002
2 - 57	Oct 15, 2002
2 - 57A	Oct 15, 2002
2 - 57B	Oct 15, 2002
2 - 57C	Oct 15, 2002
2 - 57D	Oct 15, 2002
2 - 58	Oct 15, 2002

Page	Date of issue
2 - 58A	Oct 15, 2002
2 - 58B	Oct 15, 2002
2 - 59	Oct 15, 2002
2 - 59A	Oct 15, 2002
2 - 59B	Oct 15, 2002
2 - 60	Oct 15, 2002
2 - 61	Oct 15, 2002
2 - 61A	Oct 15, 2002
2 - 61B	Oct 15, 2002
2 - 62	Oct 15, 2002
2 - 63	Oct 15, 2002
2 - 63A	Oct 15, 2002
2 - 63B	Oct 15, 2002
2 - 64	Oct 15, 2002
2 - 65	Oct 15, 2002
2 - 65A	Oct 15, 2002
2 - 65B	Oct 15, 2002
2 - 66	Mar 1, 1996
2 - 67	Mar 20, 2000
2 - 68	Oct 15, 2002
2 - 69	Oct 15, 2002
2 - 70	Oct 15, 2002
2 - 71	Oct 15, 2002
2 - 72	Oct 15, 2002
2 - 73	Oct 15, 2002
2 - 74	Oct 15, 2002
3 - 1	Mar 1, 1996
3 - 2	Mar 1, 1996
3 - 3	Oct 15, 2002
3 - 4	Mar 1, 1996
3 - 5	Oct 15, 2002
3 - 6	Oct 15, 2002
3 - 7	Oct 15, 2002
3 - 8	Mar 20, 2000
3 - 9	Mar 20, 2000
3 - 10	Mar 1, 1996
3 - 11	Mar 1, 1996
3 - 12	Mar 20, 2000
3 - 13	Mar 1, 1996
3 - 14	Apr 30, 1999
3 - 15	Mar 1, 1996
3 - 16	Mar 1, 1996
4 - 1	Mar 1, 1996
4 - 2	Mar 1, 1996
4 - 3	Mar 1, 1996

# FLIGHT MANUAL of the ZLIN Z 242 L AIRCRAFT

Document No. 003.012  
applicable for S/N 0691 and up

Serial No./Series : .....

Registration Mark : .....

Manufacturer : MORAVAN Aeroplanes, Inc. Otrokovice  
CZECH REPUBLIC

Category : ACROBATIC /A/  
UTILITY /U/  
NORMAL /N/

Certification Basis : FAR 23 dated February 1, 1965 as amended through Amt. 23-36, eff. Sept. 14, 1988; FAR 36 dated Dec. 1 1969 through Amt. 36-20, eff. Sept. 11, 1992.  
TC Additional conditions as determined in AWM 523

FAA approved for U.S. registered aircraft in accordance with FAR 21.29

Accepted by Transport Canada for aircraft registered in Canada (APD 3010-A 505)

CAI approved:

Date 6. 4. 1994

Signature

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

Date of issue: 6.4.1994

REVISION No.10

April 15, 2003



Bulletin replaced by Z242L/51a and/or Z242L/52a

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Bulletin replaced by Z242L/51a and/or Z242L/52a

LIST OF EFFECTIVE PAGES

Page No.	Date of issue	Approved			Page No.	Date of issue	Approved		
		TC	FAA	CAI			TC	FAA	CAI
0-1	15. 4.2003	x	x	x	2-1	15.12.1993	x	x	x
0-2	1. 2.1995				2-2	1. 2.1995			
0-3	15.12.1993	x	x	x	2-3	15.12.1993	x	x	x
0-4	1. 2.1995				2-4	15.12.1993	x	x	x
0-5	15. 4.2003	x	x	x	2-5	3. 5.1995	x	x	x
0-6	30. 9.1998	x	x	x	2-6	2. 2.1995	x	x	x
					2-7	1. 2.1995	x	x	x
1-1	3. 5.1995	x	x	x	2-8	15.12.1993	x	x	x
1-2	1. 2.1995				2-9	1. 2.1995	x	x	x
1-3	15.12.1993	x	x	x	2-10	1. 6.1994	x	x	x
1-4	3. 5.1995	x	x	x	2-11	1. 2.1995	x	x	x
1-4a	15. 4.2003	x	x	x	2-12	3. 5.1995	x	x	x
1-4b	3. 5.1995	x	x	x	2-13	3. 5.1995	x	x	x
1-5	30. 4.1996	x	x	x	2-14	15.12.1993	x	x	x
1-6	30. 4.1996	x	x	x	2-15	15.12.1993	x	x	x
1-7	6. 4.1994	x	x	x	2-16	2. 2.1995	x	x	x
1-8	15.12.1993	x	x	x	2-16a	15. 4.2003	x	x	x
1-9	6. 4.1994	x	x	x	2-16b	15. 4.2003	x	x	x
1-10	15.12.1993	x	x	x	2-17	30. 4.1996	x	x	x
1-11	6. 4.1994	x	x	x	2-18	3. 5.1995	x	x	x
1-12	3. 5.1995	x	x	x	2-19	15.12.1993	x	x	x
1-13	15.12.1993	x	x	x	2-20	1. 6.1994	x	x	x
1-14	15.12.1993	x	x	x	2-21	6. 4.1994	x	x	x
1-15	15.12.1993	x	x	x	2-22	15.12.1993	x	x	x
1-16	3. 5.1995	x	x	x	2-23	15.12.1993	x	x	x
1-17	15.12.1993	x	x	x	2-24	1. 2.1995			
1-18	6. 4.1994	x	x	x					
1-19	15.12.1993	x	x	x	3-1	15.12.1993	x	x	x
1-20	3. 5.1995	x	x	x	3-2	1. 2.1995			
1-21	3. 5.1995	x	x	x	3-3	1. 2.1995	x	x	x
1-22	3. 5.1995	x	x	x	3-4	1. 6.1994	x	x	x
1-23	6. 4.1994	x	x	x	3-5	1. 6.1994	x	x	x
1-24	1. 2.1995	x	x	x	3-6	6. 4.1994	x	x	x
1-25	3. 5.1995	x	x	x	3-7	6. 4.1994	x	x	x
1-26	1. 2.1995	x	x	x	3-8	15.12.1993	x	x	x
1-27	3. 5.1995	x	x	x	3-9	3. 5.1995	x	x	x
1-28	6. 4.1994	x	x	x	3-10	6. 4.1994	x	x	x
1-29	3. 5.1995	x	x	x	3-11	3. 5.1995	x	x	x
1-30	3. 5.1995	x	x	x	3-12	15.12.1993	x	x	x
1-31	25.10.1996	x	x	x	3-13	3. 5.1995	x	x	x
1-32	25.10.1996	x	x	x	3-14	1. 2.1995			
1-33	25.10.1996	x	x	x					
1-34	25.10.1996	x	x	x					
1-35	25.10.1996	x	x	x					
1-36	3. 5.1995	x	x	x					



LIST OF EFFECTIVE PAGES

Page No.	Date of issue	Approved			Page No.	Date of issue	Approved		
		TC	FAA	CAI			TC	FAA	CAI
4-1	15.12.1993	x	x	x	5-7	15.12.1993	x	x	x
4-2	1. 2.1995				5-8	15.12.1993	x	x	x
4-3	15.12.1993	x	x	x	5-9	1. 2.1995	x	x	x
4-4	6. 4.1994	x	x	x	5-10	1. 2.1995	x	x	x
4-5	15.12.1993	x	x	x	5-11	1. 2.1995	x	x	x
4-6	30. 9.1998	x	x	x	5-12	1. 2.1995	x	x	x
4-7	3. 5.1995	x	x	x	5-13	15.12.1993	x	x	x
4-8	3. 5.1995	x	x	x	5-14	3. 5.1995	x	x	x
4-9	3. 5.1995	x	x	x	5-15	3. 5.1995	x	x	x
4-10	3. 5.1995	x	x	x	5-16	15.12.1993	x	x	x
4-11	3. 5.1995	x	x	x	5-17	1. 2.1995			
4-12	3. 5.1995	x	x	x	5-18	1. 2.1995			
4-13	6. 4.1994	x	x	x	5-19	15.12.1993			
4-14	3. 5.1995	x	x	x	5-20	1. 2.1995			
4-15	15.12.1993	x	x	x	5-21	1. 2.1995			
4-16	1. 2.1995	x	x	x	5-22	1. 2.1995			
4-17	1. 2.1995	x	x	x					
4-18	3. 5.1995	x	x	x					
4-19	3. 5.1995	x	x	x	6-1	15.12.1993	x	x	x
4-20	1. 6.1994	x	x	x	6-2	1. 2.1995			
4-21	3. 5.1995	x	x	x	6-3	3. 5.1995	x	x	x
4-22	15.12.1993	x	x	x	6-4	3. 5.1995	x	x	x
4-23	15.12.1993	x	x	x	6-5	3. 5.1995	x	x	x
4-24	1. 2.1995	x	x	x	6-6	3. 5.1995	x	x	x
4-25	30. 4.1996	x	x	x	6-7	6. 4.1994	x	x	x
4-26	30. 4.1996	x	x	x	6-8	1. 2.1995	x	x	x
4-27	1. 2.1995	x	x	x	6-9	15.12.1993	x	x	x
4-28	30. 4.1996	x	x	x	6-10	3. 5.1995	x	x	x
4-29	30. 4.1996	x	x	x	6-11	3. 5.1995	x	x	x
4-30	15.12.1993	x	x	x	6-12	15.12.1993	x	x	x
4-31	15.12.1993	x	x	x	6-13	15.12.1993	x	x	x
4-32	30. 4.1996	x	x	x	6-14	1. 2.1995	x	x	x
					6-15	3. 5.1995	x	x	x
					6-16	3. 5.1995	x	x	x
5-1	3. 5.1995	x	x	x					
5-2	1. 2.1995								
5-3	15.12.1993	x	x	x					
5-4	30. 4.1996	x	x	x					
5-5	15.12.1993	x	x	x					
5-6	15.12.1993	x	x	x					

NOTE:

Section 7 consists of the separate Supplements which are included in the Flight Manual in accordance with the aircraft equipment. Each supplement is provide with the individual List of effective pages.

Log of revisions (continuation from page 1-4)

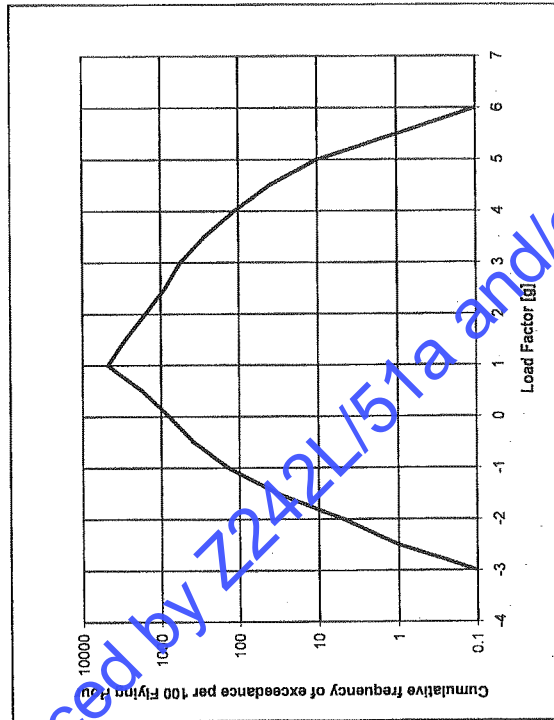
Rev. No.:	Description/eligibility	Pages affected:	Date of issue of new page	Date of revision incorporation and signature
5	19. series design changes. Airplanes S/N 0691 and up.	0-1,0-5,0-6,1-1,1-4,1-4a,1-4b,1-12,1-16,1-20,1-21,1-22,1-25,1-27,1-29,1-30,1-31,1-32,1-33,1-34,1-35,1-36,2-5,2-12,2-13,2-18,3-9,3-11,3-13,4-6,4-7,4-8,4-9,4-10,4-11,4-12,4-14,4-18,4-19,4-21,4-26,5-1,5-14,5-15,6-3,6-4,6-5,6-6,6-10,6-11,6-15,6-16	May 3, 1995	INCORPORATED BY MANUFACTURER
6	Cold weather operation All Z242L aircraft	0-1,0-5,0-6,1-4a,4-6	Apr 12, 1996	INCORPORATED BY MANUFACTURER
7	Tail slide and using gyro instruments after acrobatics All Z242L aircraft	0-1,0-5,0-6,1-4a,1-5,1-6,2-17,4-25,4-26,4-28,4-29,4-32,5-1	Apr 30, 1996	INCORPORATED BY MANUFACTURER
8	a) Cold weather operation All Z242L aircraft b) Formal modifications Airplanes S/N 0691 and up	0-1,0-5,0-6,1-4a,1-31,1-32,1-33,1-34,1-35,4-6	Oct 25, 1996	INCORPORATED BY MANUFACTURER
9	Cold weather operation All Z242L aircraft	0-1,0-5,0-6,1-4a,4-6	Sep 30, 1998	INCORPORATED BY MANUFACTURER
10	CAA-FAA load spectrum	0-1,0-5,1-4a,2-16a,2-16b	Apr 15, 2003	

Log of revisions (continuation from page 1-4a)

Rev. No.:	Description/eligibility	Pages affected:	Date of issue of new page	Date of revision incorporation and signature

Bulletin replaced by Z242L/51a and/or Z242L/52a

2.15.3 CAA-FAA load spectrum



Load factor	Cumulative frequency of exceedance per 100 flying hours
-3	0.1
-2.5	1
-2	5
-1.5	33
-1	140
-0.5	383
0	784
0.5	1740
1	4790
1.5	2841
2	1586
2.5	884
3	557
3.5	275
4	114
4.5	40
5	10
5.5	1
6	0.1

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Bulletin replaced by Z242L/51a and/or Z242L/52a

# FLIGHT MANUAL of the ZLIN Z 242 L AIRCRAFT

Document No. 003.012  
applicable for S/N up to 0689 incl.

Production No./Series : .....

Registration Mark : .....

Manufacturer : MORAVAN AIRPLANES, Inc. Otrokovice  
CZECH REPUBLIC

Category : ACROBATIC /A/  
UTILITY /U/  
NORMAL /N/

Certification Basis : FAR 23 dated February 1, 1965 as amended through Amt. 23-36, eff. Sept. 14, 1988; FAR 36 dated Dec. 1 1969 through Amt. 36-20, eff. Sept. 11, 1992.  
TC Additional conditions as determined in AWM 523

FAA approved for U.S. registered aircraft in accordance with FAR 21.29.

Accepted by Transport Canada for aircraft registered in Canada

CAI approved:

Date 6. 4. 1994

Signature

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

Issued : April 6, 1994

Revision No.10

April 15, 2003



Bulletin replaced by Z242L/52a and/or Z242L/52a

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Bulletin replaced by Z242L/51a and/or Z242L/52a

LIST OF EFFECTIVE PAGES

Page No.	Date of issue	Approved			Page No.	Date of issue	Approved		
		TC	FAA	CAI			TC	FAA	CAI
0-1	15. 4.2003	x	x	x	2-1	15.12.1993	x	x	x
0-2	1. 2.1995				2-2	1. 2.1995			
0-3	15.12.1993	x	x	x	2-3	15.12.1993	x	x	x
0-4	1. 2.1995				2-4	15.12.1993	x	x	x
0-5	15. 4.2003	x	x	x	2-5	15.12.1993	x	x	x
0-6	30. 9.1998	x	x	x	2-6	2. 2.1995	x	x	x
1-1	6. 4.1994	x	x	x	2-7	1. 2.1995	x	x	x
1-2	1. 2.1995				2-8	15.12.1993	x	x	x
1-3	15.12.1993	x	x	x	2-9	1. 2.1995	x	x	x
1-4	12. 4.1996	x	x	x	2-10	1. 6.1994	x	x	x
1-4a	15. 4.2003	x	x	x	2-11	1. 2.1995	x	x	x
1-4b	12. 4.1996	x	x	x	2-12	1. 2.1995	x	x	x
1-5	30. 4.1996	x		x	2-13	1. 2.1995	x	x	x
1-6	30. 4.1996	x		x	2-14	15.12.1993	x	x	x
1-7	6. 4.1994	x	x	x	2-15	15.12.1993	x	x	x
1-8	15.12.1993	x		x	2-16	2. 2.1995	x	x	x
1-9	6. 4.1994	x	x	x	2-16a	15. 4.2003	x	x	x
1-10	15.12.1993	x		x	2-16b	15. 4.2003	x	x	x
1-11	6. 4.1994	x	x	x	2-17	30. 4.1996	x	x	x
1-12	15.12.1993	x		x	2-18	1. 2.1995		x	x
1-13	15.12.1993	x		x	2-19	15.12.1993	x	x	x
1-14	15.12.1993	x		x	2-20	1. 6.1994	x	x	x
1-15	15.12.1993	x		x	2-21	6. 4.1994	x	x	x
1-16	15.12.1993	x		x	2-22	15.12.1993	x	x	x
1-17	15.12.1993	x		x	2-23	15.12.1993	x	x	x
1-18	6. 4.1994	x	x	x	2-24	1. 2.1995			
1-19	15.12.1993	x		x					
1-20	1. 2.1995	x		x					
1-21	15.12.1993	x		x					
1-22	15.12.1993	x		x					
1-23	6. 4.1994	x	x	x	3-1	15.12.1993	x	x	x
1-24	1. 2.1995	x	x	x	3-2	1. 2.1995			
1-25	6. 4.1994	x	x	x	3-3	1. 2.1995	x	x	x
1-26	1. 2.1995	x	x	x	3-4	1. 6.1994	x	x	x
1-27	6. 4.1994	x	x	x	3-5	1. 6.1994	x	x	x
1-28	6. 4.1994	x	x	x	3-6	6. 4.1994	x	x	x
1-29	6. 4.1994	x	x	x	3-7	6. 4.1994	x	x	x
1-30	6. 4.1994	x	x	x	3-8	15.12.1993	x	x	x
1-31	1. 6.1994	x	x	x	3-9	6. 4.1994	x	x	x
1-32	6. 4.1994	x	x	x	3-10	6. 4.1994	x	x	x
1-33	6. 4.1994	x	x	x	3-11	1. 2.1995	x	x	x
1-34	6. 4.1994	x	x	x	3-12	15.12.1993	x	x	x
1-35	1. 6.1994	x	x	x	3-13	1. 2.1995	x	x	x
1-36	6. 4.1994	x	x	x	3-14	1. 2.1995			



LIST OF EFFECTIVE PAGES

Page No.	Date of issue	Approved			Page No.	Date of issue	Approved		
		TC	FAA	CAI			TC	FAA	CAI
4-1	15.12.1993	x	x	x	5-7	15.12.1993	x	x	x
4-2	1. 2.1995				5-8	15.12.1993	x	x	x
4-3	15.12.1993	x	x	x	5-9	1. 2.1995	x	x	x
4-4	6. 4.1994	x	x	x	5-10	1. 2.1995	x	x	x
4-5	15.12.1993	x	x	x	5-11	1. 2.1995	x	x	x
4-6	30. 9.1998	x	x	x	5-12	1. 2.1995	x	x	x
4-7	15.12.1993	x	x	x	5-13	15.12.1993	x	x	x
4-8	6. 4.1994	x	x	x	5-14	15.12.1993	x	x	x
4-9	6. 4.1994	x	x	x	5-15	15.12.1993	x	x	x
4-10	6. 4.1994	x	x	x	5-16	15.12.1993	x	x	x
4-11	1. 2.1995	x	x	x	5-17	1. 2.1995			
4-12	1. 2.1995	x	x	x	5-18	1. 2.1995			
4-13	6. 4.1994	x	x	x	5-19	15.12.1993			
4-14	6. 4.1994	x	x	x	5-20	1. 2.1995			
4-15	15.12.1993	x	x	x	5-21	1. 2.1995			
4-16	1. 2.1995		x	x	5-22	1. 2.1995			
4-17	1. 2.1995	x	x	x					
4-18	1. 2.1995	x	x	x	6-1	15.12.1993	x	x	x
4-19	15.12.1993	x	x	x	6-2	1. 2.1995			
4-20	1. 6.1994	x	x	x	6-3	1. 2.1995	x	x	x
4-21	6. 4.1994	x	x	x	6-4	15.12.1993	x	x	x
4-22	15.12.1993	x	x	x	6-5	15.12.1993	x	x	x
4-23	15.12.1993	x	x	x	6-6	1. 2.1995	x	x	x
4-24	1. 2.1995	x	x	x	6-7	6. 4.1994	x	x	x
4-25	30. 4.1996	x	x	x	6-8	1. 2.1995	x	x	x
4-26	30. 4.1996	x	x	x	6-9	15.12.1993	x	x	x
4-27	1. 2.1995	x	x	x	6-10	15.12.1993	x	x	x
4-28	30. 4.1996	x	x	x	6-11	15.12.1993	x	x	x
4-29	30. 4.1996	x	x	x	6-12	15.12.1993	x	x	x
4-30	15.12.1993	x	x	x	6-13	15.12.1993	x	x	x
4-31	15.12.1993	x	x	x	6-14	1. 2.1995	x	x	x
4-32	30. 4.1996	x	x	x	6-15	15.12.1993	x	x	x
					6-16	2. 2.1995	x	x	x
5-	15.12.1993	x	x	x					
5-1	1. 2.1995								
5-2	15.12.1993	x	x	x					
5-3	30. 4.1996	x	x	x					
5-4	15.12.1993	x	x	x					
5-5	15.12.1993	x	x	x					
5-6	15.12.1993	x	x	x					

NOTE:

The list of effective pages of Section 7 - SUPPLEMENTS - is given on page 7-2 in Section 7.

Log of revisions (continuation from page 1-4)

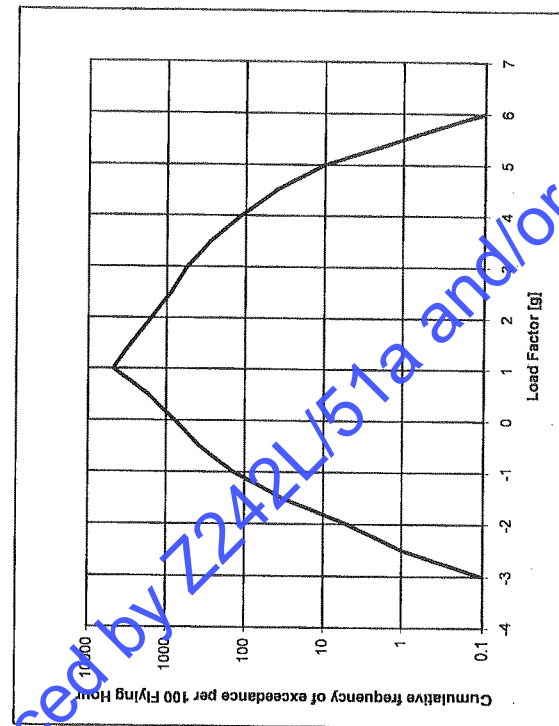
Rev. No.:	Description/eligibility	Pages affected:	Date of issue of new page	Date of revision incorporation and signature
5	Not applicable up to S/N 0689 incl.	-----	----	-----
6	Cold weather operation All Z242L aircraft	0-1,0-5,0-6,1-4,1-4a,1-4b,4-6	Apr 12, 1996	INCORPORATED BY MANUFACTURER
7	Tail slide and using gyro instruments after acrobatics All Z242L aircraft	0-1,0-5,0-6,1-4a,1-5,1-6,2-17,4-25,4-26,4-28,4-29,4-32,5-4	Apr 30, 1996	INCORPORATED BY MANUFACTURER
8	Cold weather operation All Z242L aircraft	0-1,0-5,0-6,1-4a,4-6	Oct 25, 1996	INCORPORATED BY MANUFACTURER
9	Cold weather operation All Z242L aircraft	0-5,0-6,1-4a,4-6	Sep 30, 1998	INCORPORATED BY MANUFACTURER
10	CAA-FAA load spectrum	0-1,0-5,1-4a,2-16a,2-16b	Apr 15, 2003	

Log of revisions (continuation from page 1-4a)

Rev. No.:	Description/eligibility	Pages affected:	Date of issue of new page	Date of revision incorporation and signature

Bulletin replaced by Z242L/51a and/or Z242L/52a

2.15.3 CAA-FAA load spectrum



Load factor	Cumulative frequency of exceedance per 100 Flying hours
-3	0.1
-2.5	1
-2	5
-1.5	33
-1	140
-0.5	383
0	784
0.5	1740
1	4790
1.5	2841
2	1586
2.5	884
3	557
3.5	275
4	114
4.5	40
5	10
5.5	1
6	0.1

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Bulletin replaced by Z242L/51a and/or Z242L/52a

FLIGHT MANUAL  
of the  
ZLIN Z 242 L AIRCRAFT

Production No./Series : .....  
Registration Mark : .....  
Manufacturer : MORAVAN AEROPLANES Inc. Otrokovice  
CZECH REPUBLIC  
Category : ACROBATIC /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 INSPECTORATE - Prague on: 27. 4. 1992  
by doc.No. 2340/814/92/Vy

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!

Date of issue: 27. 4. 1992

REVISION No.7 April 15, 2003

CAA APPROVED



Bulletin replaced by Z242L/51a and/or Z242L/52a

LIST OF EFFECTIVE PAGES

Page No.	Date of issue
0-1	15.4.2003
0-2	-
0-3	27.4.1992
0-4	-
0-5	15.4.2003
0-6	2.2.1995
1-1	27.4.1992
1-2	-
1-3	27.4.1992
1-4	15.4.2003
1-5	27.4.1992
1-6	27.4.1992
1-7	27.4.1992
1-8	27.4.1992
1-9	27.4.1992
1-10	27.4.1992
1-11	27.4.1992
1-12	27.4.1992
1-13	27.4.1992
1-14	27.4.1992
1-15	27.4.1992
1-16	27.4.1992
1-17	27.4.1992
1-18	27.4.1992
1-19	14.8.1992
1-20	27.4.1992
2-1	27.4.1992
2-2	-
2-3	27.4.1992
2-4	2.2.1995
2-5	14.8.1992
2-6	14.8.1992
2-7	14.8.1992
2-8	14.8.1992
2-9	27.4.1992
2-10	14.8.1992
2-11	27.4.1992
2-12	14.8.1992

Page No.	Date of issue
2-13	14.8.1992
2-14	2.2.1995
2-14a	15.4.2003
2-14b	15.4.2003
2-15	27.4.1992
2-16	14.8.1992
2-17	27.4.1992
2-18	27.4.1992
2-19	27.4.1992
2-20	14.8.1992
2-21	14.8.1992
2-22	27.4.1992
2-23	27.4.1992
2-24	27.4.1992
2-25	27.4.1992
2-26	27.4.1992
2-27	27.4.1992
2-28	27.4.1992
2-29	27.4.1992
2-30	14.8.1992
3-1	27.4.1992
3-2	-
3-3	27.4.1992
3-4	27.4.1992
3-5	27.4.1992
3-6	27.4.1992
3-7	27.4.1992
3-8	27.4.1992
3-9	14.8.1992
3-10	14.8.1992
3-11	27.4.1992
3-12	14.8.1992
3-13	27.4.1992
3-14	-
4-1	27.4.1992
4-2	-
4-3	27.4.1992
4-4	27.4.1992
4-5	27.4.1992
4-6	30.9.1998

Page No.	Date of issue
4-7	27.4.1992
4-8	14.8.1992
4-9	27.4.1992
4-10	14.8.1992
4-11	14.8.1992
4-12	27.4.1992
4-13	27.4.1992
4-14	14.8.1992
4-15	14.8.1992
4-16	27.4.1992
4-17	27.4.1992
4-18	27.4.1992
4-19	14.8.1992
4-20	27.4.1992
4-21	27.4.1992
4-22	14.8.1992
4-23	27.4.1992
4-24	27.4.1992
4-25	27.4.1992
4-26	27.4.1992
4-27	30.4.1996
4-28	27.4.1992
4-29	27.4.1992
4-30	27.4.1992
4-31	27.4.1992
4-32	30.4.1996
4-33	27.4.1992
4-34	27.4.1992
4-35	27.4.1992
4-36	30.4.1996
5-1	27.4.1992
5-2	-
5-3	27.4.1992
5-4	14.8.1992
5-5	14.8.1992
5-6	27.4.1992
5-7	27.4.1992
5-8	27.4.1992
5-9	27.4.1992
5-10	27.4.1992
5-11	27.4.1992

Bulletin released by V42L152a and/or 2025/152a



LIST OF EFFECTIVE PAGES

Page No.	Date of issue
5-12	27.4.1992
5-13	27.4.1992
5-14	27.4.1992
5-15	27.4.1992
5-16	-
6-1	27.4.1992
6-2	-
6-3	27.4.1992
6-4	27.4.1992
6-5	27.4.1992
6-6	27.4.1992
6-7	27.4.1992
6-8	14.8.1992
6-9	27.4.1992
6-10	27.4.1992
6-11	27.4.1992
6-12	27.4.1992
6-13	27.4.1992
6-14	27.4.1992
6-15	27.4.1992
6-16	27.4.1992
6-17	27.4.1992
6-18	27.4.1992
6-19	2.2.1995
6-20	-

NOTE:

The List of effective pages of Section 7 - SUPPLEMENTS - is given on page 7-2 in section 7.

1. GENERAL

1.1. INTRODUCTION

This Flight Manual contains all important information which must be given to the pilot in compliance with the FAR PART 23 including all supplementary data from aircraft's manufacturer.

Validity:

This Flight Manual applies only to the aircraft identified by production number on the page 0 - 1.

CAUTION

THE PILOT OF THE AIRCRAFT MUST BECOME FAMILIAR WITH THE CONTENTS OF THIS FLIGHT MANUAL PRIOR TO THE FLIGHT.

1.2. REVISIONS

1.2.1. All revisions or supplements of this FLIGHT MANUAL are performed as follows:

/1/ The Aircraft Manufacturer will send the Mandatory Bulletin with revisions or new (revised) pages of the FLIGHT MANUAL including the new list of effective pages to the holder of the FLIGHT MANUAL.

/2/ The holder of the FLIGHT MANUAL is obliged:

- a) To carry out the change or replace original pages by new ones (marked with the new date of revision) according to Bulletin instructions.
- b) To insert a new List of effective pages.
- c) To record the performed revision into the RECORD OF REVISIONS - item 1.2.2.

NOTE

The revised or supplemented parts of the text are marked by full vertical black line along the outside page margin.

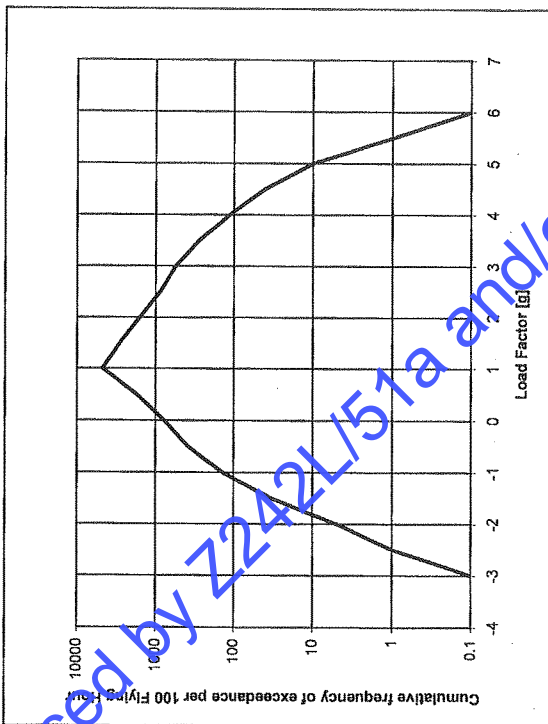
1.2.2. Record of revisions

Rev.No.:	No. of Bulletin ordering the revision	Pages affected:	Date of issue of new page	Date of revision incorporation and signature
1.	Z242/1	0-5, 0-6, 1-19, 2-5, 2-6, 2-7, 2-8, 2-10, 2-12, 2-13, 2-16, 2-20, 2-21, 2-30, 3-9, 3-10, 3-12, 4-8, 4-10, 4-11, 4-14, 4-15, 4-19, 4-22, 4-27, 5-4, 5-5, 6-8, 7-3, 7-8, 7-10, 7-19.	14.8.92	INCORPORATED BY MANUFACTURER
2.	Z242/16a	0-5, 0-6, 1-4, 2-4, 2-14, 6-19	2.2.96	INCORPORATED BY MANUFACTURER
3.	Z242/19a	0-5, 1-4, 4-6	12.4.96	INCORPORATED BY MANUFACTURER
4.	Z242/21a	0-5, 1-4, 4-27, 4-32, 4-36	30.4.96	INCORPORATED BY MANUFACTURER
5.	Z242/19a Rev. 1	0-5, 1-4, 4-6	25.10.96	INCORPORATED BY MANUFACTURER
6.	Z242/19a Rev. 2	0-5, 1-4, 4-6	30.9.98	INCORPORATED BY MANUFACTURER
7.	Z 242L/38a Rev. 1	0-1, 0-5, 1-4, 2-14a, 2-14b	15.4.03	

NOTE:

- /1/ The holder of the FLIGHT MANUAL is obliged to do this record in accordance with 1.2. - Revisions.
- /2/ All revisions and supplements in this FLIGHT MANUAL issued before the date of issue, stated on page 0 - 1, are to be carried out by the Manufacturer.

2.15.3.CAA-FAA load spectrum



Load factor	Cumulative frequency of exceedance per 100 Flying hours
-3	0.1
-2.5	1
-2	5
-1.5	33
-1	140
-0.5	383
0	784
0.5	1740
1	4790
1.5	2841
2	1586
2.5	884
3	557
3.5	275
4	114
4.5	40
5	10
5.5	1
6	0.1

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FLIGHT MANUAL  
of the  
Z 142 C AIRCRAFT

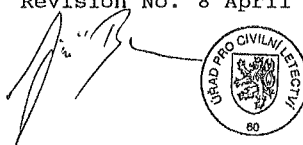
Production No./Series : .....  
Registration Mark : .....  
Manufacturer : Moravan-Aeroplanes, Inc. Otrokovice  
Czech Republic  
Category : AEROBATIC /A/  
UTILITY /U/  
NORMAL /N/  
Certification Basis : FAR PART 23 with incorporated  
amendments as to No.23-20 inclusive

THIS FLIGHT MANUAL HAS BEEN APPROVED BY THE CIVIL AVIATION  
INSPECTORATE - Prague on: 21 October 1991  
doc. No. LG - Z 142 - Z 213

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

Date of issue: 21 October 1991

Revision No. 8 April 15, 2003



Bulletin replaced by Z242L/51a and/or Z242L/52a

LIST OF EFFECTIVE PAGES

Page No.	Date of issue	Page No.	Date of issue	Page No.	Date of issue
0-1	15. 4.2003	2-17	31. 1.2002	4-23	21.10.1991
0-2	-	2-18	31. 1.2002	4-24	21.10.1991
0-3	21.10.1991	2-19	31. 1.2002	4-25	21.10.1991
0-4	-	2-20	31. 1.2002	4-26	21.10.1991
0-5	15. 4.2003	2-21	31. 1.2002	4-27	21.10.1991
0-6	-	2-22	31. 1.2002	4-28	21.10.1991
		2-23	31. 1.2002	4-29	21.10.1991
		2-24	31. 1.2002	4-30	-
1-1	21.10.1991	2-25	31. 1.2002		
1-2	-	2-26	31. 1.2002		
1-3	21.10.1991			5-1	21.10.1991
1-4	15. 4.2003			5-2	-
1-5	21.10.1991	3-1	28. 4.1994	5-3	21.10.1991
1-6	21.10.1991	3-2	-	5-4	21.10.1991
1-7	21.10.1991	3-3	21.10.1991	5-5	1. 7.1994
1-8	31. 1.2002	3-4	21.10.1991	5-6	21.10.1991
1-9	21.10.1991	3-5	21.10.1991	5-7	21.10.1991
1-10	1. 7.1994	3-6	21.10.1991	5-8	21.10.1991
1-11	21.10.1991	3-7	21.10.1991	5-9	21.10.1991
1-12	21.10.1991	3-8	21.10.1991	5-10	21.10.1991
1-13	1. 7.1994	3-9	21.10.1991	5-11	21.10.1991
1-14	1. 7.1994	3-10	28. 4.1994	5-12	21.10.1991
1-15	1. 7.1994				
1-16	-				
		4-1	21.10.1991	6-1	1. 7.1994
		4-2	-	6-2	-
2-1	1. 7.1994	4-3	21.10.1991	6-3	21.10.1991
2-2	-	4-4	21.10.1991	6-4	21.10.1991
2-3	1. 7.1994	4-5	21.10.1991	6-5	21.10.1991
2-3a	1. 7.1994	4-6	21.10.1991	6-6	1. 7.1994
2-3b	1. 7.1994	4-7	21.10.1991	6-7	21.10.1991
2-4	1. 7.1994	4-8	2. 2.1993	6-8	21.10.1991
2-5	1. 7.1994	4-9	2. 2.1993	6-9	21.10.1991
2-5a	1. 7.1994	4-10	2. 2.1993	6-10	21.10.1991
2-5b	1. 7.1994	4-11	2. 2.1993	6-11	21.10.1991
2-6	1. 7.1994	4-12	21.10.1991	6-12	21.10.1991
2-7	2. 2.1993	4-13	2. 2.1993	6-13	21.10.1991
2-8	2. 2.1993	4-14	21.10.1991	6-14	21.10.1991
2-9	1. 7.1994	4-15	2. 2.1993	6-15	21.10.1991
2-9a	15. 4.2003	4-16	2. 2.1993	6-16	21.10.1991
2-9b	15. 4.2003	4-17	21.10.1991	6-17	21.10.1991
2-10	21.10.1991	4-18	2. 2.1993	6-18	21.10.1991
2-11	31. 8.1995	4-19	21.10.1991	6-19	21.10.1991
2-12	21.10.1991	4-20	21.10.1991	6-20	21.10.1991
2-13	21.10.1991	4-21	21.10.1991	6-21	1. 7.1994
2-14	21.10.1991	4-22	21.10.1991	6-22	-
2-15	21.10.1991				
2-16	31. 1.2002				

NOTE:

The list of effective pages of Section 7 - Supplements - is included in front of this Section (7-2).



Bulletin replaced by Z242L/51a and/or Z242L/52a

1. GENERAL

1.1. INTRODUCTION

Validity:

This FLIGHT MANUAL applies only to the aircraft identified by production number on the page 0 - 1.

CAUTION:

THE PILOT OF THE Z 142C AIRCRAFT MUST BECOME FAMILIAR WITH THE CONTENTS OF THIS FLIGHT MANUAL BEFORE THE FLIGHT.

1.2. CHANGES

1.2.1 All changes or supplements of this FLIGHT MANUAL are performed as follows:

- /1/ The Aircraft Manufacturer will send the Mandatory Bulletin including changes or new (revised) pages of the FLIGHT MANUAL to the holder of the FLIGHT MANUAL.
- /2/ The holder of the FLIGHT MANUAL is obliged:
  - a) To carry out the change or replace original pages by new ones (marked with the new date of revision) according to Bulletin instructions.
  - b) To insert a new List of effective pages.
  - c) To record the performed change into the LOG OF CHANGES - item 1.2.2.

NOTE

The changed or supplemented parts of the text are marked by vertical black line along the outside of the page.

1.2.2. Log of Changes

Change No.:	No. of Bulletin ordering the change:	Pages affected:	Date of Revision:	Performed on/ signature:
1	Z 142C/2	0-5, 2-5, 2-7, 2-8, 4-8, 4-9, 4-10, 4-11, 4-13, 4-15, 4-16, 4-18	2. 2. 1993	
2	Z 142C/6a	0-5, 2-26, 3-1, 3-10	28. 4. 1994	
3	Z 142C/5a	0-5, 1-4, 1-10, 1-13, 1-14, 1-15, 2-1, 2-3, 2-3a, 2-3b, 2-4, 2-5, 2-5a, 2-5b, 2-6, 2-9, 2-17, 5-5, 6-1, 6-6, 6-21	1. 7. 1994	
4	Z 142C/8a	0-5, 1-4, 1-8, 2-20, 2-21, 2-22, 2-23, 2-24, 2-25, 2-26	1. 11. 1994	
5	Suppl. No. 1 Z 142C/8a	0-5, 1-4, 1-8	24. 3. 1995	
6	Z 142C/10a	0-5, 1-4, 2-11	31. 8. 1995	
7	Z 142C/24a	0-5, 1-4, 1-8, 2-16, 2-17, 2-18, 2-19, 2-20, 2-21, 2-22, 2-23, 2-24, 2-25, 2-26	31. 1. 2002	
8	Z 142C/18a Rev. 1	0-1, 0-5, 1-4, 2-9a, 2-9b	15. 4. 2003	

NOTES:

- /1/ The holder of the FLIGHT MANUAL is obliged to do this record in accordance with 1.2.2. - Changes
- /2/ All changes and supplements in this FLIGHT MANUAL issued before the date of issue, stated on page 0-1, are carried out by the Manufacturer.

2.14. AIRSPPEED INDICATOR MARKINGS

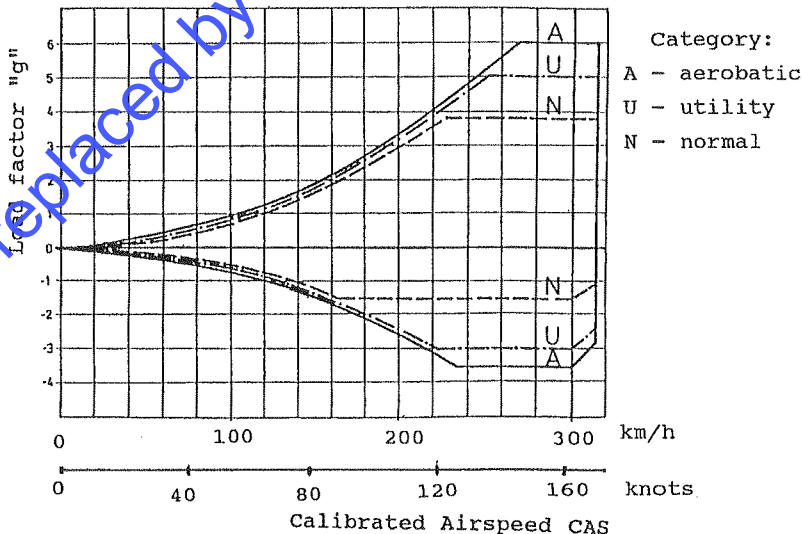
Item	Red radial line	Yellow arc	Green arc	White arc
Indicated Airspeed /knots/ IAS	180	147-180	55-147	48-182
Markings reading	Limit value	Caution range	Normal	Wing flaps extended
			Operating range	

2.15. LOAD FACTORS AND MANEUVERING ENVELOPE

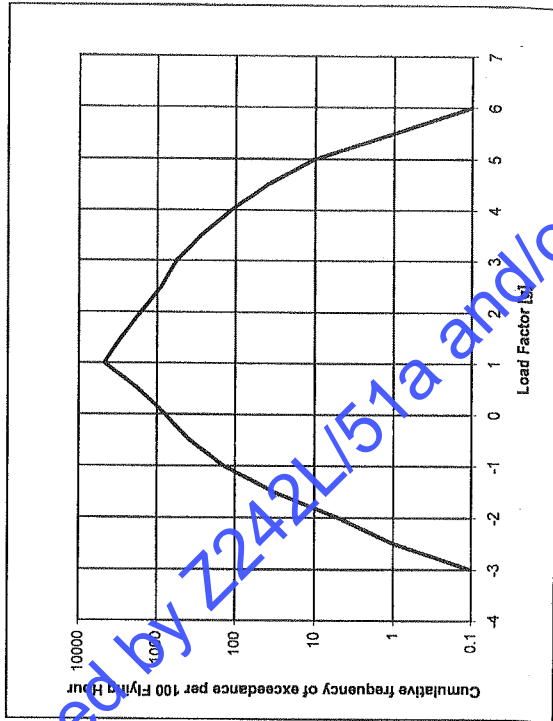
2.15.1. Loads Factors

Category	Load factor "g"	
	+	-
Aerobatic /A/	6	3.5
Utility /U/	5	3
Normal /N/	3.8	1.5

2.15.2. Maneuvering Envelope



2.15.3. CAA-FAA load spectrum



Load factor	Cumulative frequency of exceedance per 100 Flying hours
-3	0.1
-2.5	1
-2	5
-1.5	33
-1	140
-0.5	383
0	784
0.5	1740
1	4790
1.5	2841
2	1586
2.5	884
3	557
3.5	275
4	114
4.5	40
5	10
5.5	1
6	0.1

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Bulletin replaced by Z242L/51a and/or Z242L/52a

2.16. AEROBATIC MANEUVERS

2.16.1. Category Aerobatic /A/ and Utility /U/

The Z 142 aircraft is airworthy for following flight and aerobatic maneuvers in category AEROBATIC /A/ and UTILITY /U/:

Ord. No.	Name of maneuver	Recommended entry speed IAS (knots)
1.	Steep turn (angle of bank is more than 45°)	min. 97
2.	Chandelle (Climb turn)	min. 120
3.	Loop	min. 130
4.	Half loop and half roll (Immelman turn)	min. 135
5.	Half roll and half loop	max. 80
6.	Stalled turn	min. 97
7.	Slow roll	min. 97
8.	Whip stall (tail down stall)	min. 97
9.	Spin	min. 59
10.	Inverted flight	min. 108
11.	Inverted turn	min. 108
12.	Inverted loop from normal flight	max. 59
13.	Inverted loop from inverted flight	min. 140
14.	Inverted spin	75

CAUTION:

ABOVE MENTIONED AEROBATIC MANEUVERS MAY BE PERFORMED BOTH IN SOLO OR TWO OCCUPANTS OPERATION IN ANY DESIRED SEQUENCE, COMBINATIONS AND ATTITUDES COMPLYING WITH FOLLOWING LIMITATIONS:

**LIST OF EFFECTIVE PAGES**

Page	Date of issue	Page	Date of issue	Page	Date of issue
4 - 4	Mar 1, 1996	5 - 18	Mar 20, 2000	7 - 9	Mar 1, 1996
4 - 5	Mar 1, 1996	5 - 19	Mar 1, 1996	7 - 10	Mar 20, 2000
4 - 6	Mar 1, 1996	5 - 20	Mar 1, 1996	7 - 11	Mar 1, 1996
4 - 7	Mar 1, 1996	5 - 21	Mar 20, 2000	7 - 12	Mar 1, 1996
4 - 8	Mar 1, 1996	5 - 21a	Oct 7, 2002	7 - 13	Mar 20, 2000
4 - 9	Mar 1, 1996	5 - 21b	Mar 20, 2000	7 - 14	Mar 20, 2000
4 - 10	Oct 15, 2002	5 - 22	Mar 1, 1996	7 - 15	Mar 1, 1996
4 - 11	Mar 1, 1996	5 - 23	Mar 1, 1996	7 - 16	Mar 1, 1996
4 - 12	Mar 20, 2000	5 - 24	Mar 1, 1996	7 - 17	Mar 1, 1996
4 - 13	Mar 20, 2000	5 - 25	Mar 1, 1996	7 - 18	Mar 20, 2000
4 - 13a	Mar 20, 2000	5 - 26	Oct 10, 1997	7 - 19	Mar 1, 1996
4 - 13b	Mar 20, 2000			7 - 20	Mar 1, 1996
4 - 14	Oct 15, 2002	6 - 1	Mar 1, 1996	7 - 21	Mar 20, 2000
4 - 15	Mar 1, 1996	6 - 2	Mar 1, 1996	7 - 22	Mar 20, 2000
4 - 16	Mar 1, 1996	6 - 3	Mar 1, 1996	7 - 23	Mar 1, 1996
4 - 17	Mar 20, 2000	6 - 4	Mar 1, 1996	7 - 24	Mar 1, 1996
4 - 18	Mar 20, 2000	6 - 5	Mar 1, 1996	7 - 25	Mar 20, 2000
4 - 19	Mar 1, 1996	6 - 6	Mar 1, 1996	7 - 26	Mar 20, 2000
4 - 20	Mar 1, 1996	6 - 7	Mar 1, 1996	7 - 27	Mar 20, 2000
4 - 21	Mar 1, 1996	6 - 8	Mar 20, 2000	7 - 28	Mar 1, 1996
4 - 22	Mar 1, 1996	6 - 9	Mar 1, 1996	7 - 29	Mar 20, 2000
4 - 23	Mar 1, 1996	6 - 10	Mar 1, 1996	7 - 30	Mar 20, 2000
4 - 24	Oct 15, 2002	6 - 11	Mar 20, 2000	7 - 31	Mar 20, 2000
4 - 25	Mar 1, 1996	6 - 12	Mar 1, 1996	7 - 32	Mar 1, 1996
4 - 26	Mar 1, 1996	6 - 13	Mar 1, 1996	7 - 33	Mar 20, 2000
4 - 27	Mar 1, 1996	6 - 14	Mar 1, 1996	7 - 34	Mar 20, 2000
4 - 28	Mar 1, 1996	6 - 15	Mar 1, 1996		
5 - 1	Oct 10, 1997	6 - 16	Mar 1, 1996	9 - 1	Apr 15, 2003
5 - 2	Mar 1, 1996	6 - 17	Mar 1, 1996	9 - 2	Apr 15, 2003
5 - 3	Mar 20, 2000	6 - 18	Mar 1, 1996	9 - 3	Apr 15, 2003
5 - 4	Mar 20, 2000	6 - 19	Mar 20, 2000	9 - 4	Apr 15, 2003
5 - 5	Oct 7, 2002	6 - 20	Mar 1, 1996		
5 - 6	Mar 20, 2000	6 - 21	Oct 15, 2002		
5 - 7	Mar 1, 1996	6 - 22	Mar 1, 1996		
5 - 8	Oct 10, 1997	6 - 23	Mar 1, 1996		
5 - 9	Mar 20, 2000	6 - 24	Mar 1, 1996		
5 - 10	Mar 20, 2000	7 - 1	Mar 20, 2000		
5 - 11	Mar 20, 2000	7 - 2	Mar 1, 1996		
5 - 12	Mar 1, 1996	7 - 3	Mar 1, 1996		
5 - 13	Apr 13, 2001	7 - 4	Mar 1, 1996		
5 - 14	Mar 1, 1996	7 - 5	Mar 1, 1996		
5 - 15	Mar 1, 1996	7 - 6	Mar 1, 1996		
5 - 16	Mar 1, 1996	7 - 7	Mar 1, 1996		
5 - 17	Mar 20, 2000	7 - 8	Mar 20, 2000		

**NOTE:**

List of effective pages of Section 8 is not a part of this List. It includes in the above mentioned section 8.



**LOG OF REVISION**

<b>Rev. No.:</b>	<b>Description / eligibility</b>	<b>Pages affected:</b>	<b>Date of issue of new page</b>	<b>Date of revision incorporating and signature</b>
1	Revision of the airworthiness limitation and related changes in the maintenance schedule	0-3, 0-4, 0-5, 2-7, 2-21, 5-1, 5-8, 5-10, 5-26, 9-2 Deleted pages: 5-27, 5-28, 5-29, 5-30, 9-3, 9-4	Oct 1, 1997	INCORPORATED BY MANUFACTURER
2	Cold weather operation	0-3, 0-5, 3-14	Sep 30, 1998	INCORPORATED BY MANUFACTURER
3	Revision of the airworthiness limitation	0-3, 0-4, 0-5, 9-1, 9-2	Oct 7, 1998	INCORPORATED BY MANUFACTURER
4	Cold weather operation	0-3, 0-5, 2-34, 2-35, 3-14	Apr 30, 1999	INCORPORATED BY MANUFACTURER
5	Formal adaptations, reminder from aircraft operation near of the user	0-2, 0-3, 0-4, 0-5, 1-5, 2-14, 2-15, 2-22, 2-23, 2-34, 2-38, 2-51, 2-54, 2-55, 2-61, 2-63, 2-67, 3-8, 3-9, 3-12, 4-6, 4-10, 4-12, 4-13, 4-13a, 4-13b, 4-17, 4-18, 5-3, 5-4, 5-5, 5-6, 5-9, 5-10, 5-11, 5-13, 5-17, 5-18, 5-21, 5-21a, 5-21b, 6-8, 6-11, 6-19, 7-1, 7-8, 7-10, 7-13, 7-14, 7-18, 7-21, 7-22, 7-25, 7-26, 7-27, 7-29, 7-30, 7-31, 7-33, 7-34	Mar 20, 2000	INCORPORATED BY MANUFACTURER
6	Revision of the airworthiness limitation	0-3, 0-4, 0-5, 9-1, 9-2	Oct 31, 2000	INCORPORATED BY MANUFACTURER
7	Revision of the airworthiness limitation – using the AMU 1 acceleration monitoring unit	0-3, 0-4, 0-5, 9-1, 9-2	Oct 31, 2000	INCORPORATED BY MANUFACTURER
8	Revision of rubber hoses service life time	0-3, 0-4, 0-5, 5-13	Apr 13, 2001	INCORPORATED BY MANUFACTURER
9	Check of the "Tee" and the "Elbow" in Oil System	0-3, 0-4, 0-5, 5-5, 5-21a	Oct 7, 2002	INCORPORATED BY MANUFACTURER
10	Design modifications, formal adaptations	0-1, 0-3, 0-4, 0-5, 2-2, 2-5, 2-6, 2-10, 2-11, 2-11A, 2-11B, 2-15, 2-18, 2-18A, 2-18B, 2-29, 2-32, 2-33, 2-33A, 3-33B, 2-34, 2-35, 2-36, 2-41, 2-51, 2-52, 2-53, 2-53A, 2-53B, 2-53C, 2-53D, 2-54, 2-55, 2-56, 2-57, 2-57A, 2-57B, 2-57C, 2-57D, 2-58, 2-58A, 2-58B, 2-59, 2-59A, 2-59B, 2-60, 2-61, 2-61A, 2-61B, 2-62, 2-63, 2-63A, 2-63B, 2-64, 2-65, 2-65A, 2-65B, 2-68, 2-69, 2-70, 2-71, 2-72, 2-73, 2-74, 3-3, 3-5, 3-6, 3-7, 4-10, 4-14, 4-24, 6-21	Oct 15, 2002	INCORPORATED BY MANUFACTURER

**LOG OF REVISION**

Rev. No.:	Description / eligibility	Pages affected:	Date of issue of new page	Date of revision incorporating and signature
11	Revision of the airworthiness limitation	0-3, 0-4, 0-6, 9-1, 9-2, 9-3, 9-4	Apr 15, 2003	
<p>Bulletin replaced by Z242L/51a and/or Z242L/52a</p>				

**CHAPTER 9 - AIRWORTHINESS LIMITATIONS**

This Airworthiness Limitations section is:

1. FAA approved and specifies maintenance required under par. 43.16 and 91.403 of the FAR unless an alternative program has been FAA approved. (US registered aircraft).
2. Approved by the Minister and specifies maintenance required under any applicable airworthiness or operating rule, unless an alternative program has been approved by the Minister. (aircraft registered in Canada).

Approved by: CAA CZ

FAA

Date: Apr. 15, 2003

Apr. 15, 2003

Safe-life concept is applied to the Z 242 L aircraft.  
Safe life time is limited at following parts:

- |                            |                               |
|----------------------------|-------------------------------|
| 1. The Airframe            | <b>5 500</b> flight hours (1) |
| 2. Main Landing Gear Legs  | <b>2 500</b> flight hours (2) |
| Z 242.5100-00.09 (L.H.)    |                               |
| Z 242.5100-00.10 (R.H.)    |                               |
| 3. Nose Landing Gear Strut | <b>3 500</b> flight hours (3) |
| 793 HPK-185-19-7           |                               |

**NOTES:**

- (1a) **190 flight hours** in(A) or (U) categories during aircraft safe life time are permitted for aircraft up to S/N 0656 inclusive (aircraft with **unstrengthened wings** on which the Mandatory Bulletin Z 242 L/27a-Rev.1 or Rev. 2 has not been accomplished) with total safe life time of **3500 hours TIS**.
- (1b) Total safe life time of the Z 242 L aircraft with **strengthened wings** (aircraft from S/N 0657 inclusive and up to S/N 0656 inclusive on which the Mandatory Bulletin Z 242 L/27a-Rev.1 or Rev. 2 has been accomplished) operated **within CAA-FAA load spectrum** is **5500 hours TIS**, **without** Acrobatic and Utility **limitations**.
- (1c) Acrobatic or Utility operation of the Z 242 L aircraft is **limited to 700 hours TIS** with total safe life time of **5500 hours TIS** for aircraft with **strengthened wings** (aircraft from S/N 0657 inclusive and up to S/N 0656 inclusive on which the Mandatory Bulletin Z 242 L/27a-Rev.1 or Rev. 2 has been accomplished) for operation **over the CAA-FAA** load spectrum.

Operation only in Normal (N) category is permitted after reaching 700 hours TIS in Acrobatic (A) and Utility (U) categories of operation over the CAA-FAA spectrum without wings replacement.

Aircraft operator shall record information of aerobatic flights to the Aircraft Log Book.

**Acrobatic flight** is a flight from take-off to landing during which acrobatic maneuvers permitted in the Flight Manual for Acrobatic (A) and Utility (U) categories are performed.

- (2) This limitation may be exceeded up to the total number of **11 000 landings** if the operator of appropriate aircraft registers a number of landings by a demonstrable manner.
- (3) This limitation may be exceeded up to the total number of **15 000 landings** if the operator of appropriate aircraft registers a number of landings by a demonstrable manner.

Bulletin replaced by Z242L/51a and/or Z242L/52a

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# FLIGHT MANUAL of the ZLIN Z 242 L AIRCRAFT

Document No. 003.012  
applicable for S/N 0691 and up

Serial No./Series : .....

Registration Mark : .....

Manufacturer : MORAVAN Aeroplanes, Inc. Otrokovice  
CZECH REPUBLIC

Category : ACROBATIC /A/  
UTILITY /U/  
NORMAL /N/

Certification Basis : FAR 23 dated February 1, 1965 as amended through Amt. 23-36, eff. Sept. 14, 1988; FAR 36 dated Dec. 1 1969 through Amt. 36-20, eff. Sept. 11, 1992.  
TC Additional conditions as determined in AWM 523

FAA approved for U.S. registered aircraft in accordance with FAR 21.27  
Accepted by Transport Canada for aircraft registered in Canada (ARD 5010-A 505)  
CAI approved:

Date 6. 4. 1994

Signature

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

Date of issue: 6.4.1994

REVISION No.10

April 15, 2003



Bulletin replaced by Z242L/51a and/or Z242L/52a

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Bulletin replaced by Z242L/51a and/or Z242L/52a



LIST OF EFFECTIVE PAGES

Page No.	Date of issue	Approved			Page No.	Date of issue	Approved		
		TC	FAA	CAI			TC	FAA	CAI
0-1	15. 4. 2003	x	x	x	2-1	15.12.1993	x	x	x
0-2	1. 2. 1995				2-2	1. 2. 1995			
0-3	15.12.1993	x	x	x	2-3	15.12.1993	x	x	x
0-4	1. 2. 1995				2-4	15.12.1993	x	x	x
0-5	15. 4. 2003	x	x	x	2-5	3. 5. 1995	x	x	x
0-6	30. 9. 1998	x	x	x	2-6	2. 2. 1995	x	x	x
					2-7	1. 2. 1995	x	x	x
					2-8	15.12.1993	x	x	x
1-1	3. 5. 1995	x	x	x	2-9	1. 2. 1995	x	x	x
1-2	1. 2. 1995				2-10	1. 6. 1994	x	x	x
1-3	15.12.1993	x	x	x	2-11	1. 2. 1995	x	x	x
1-4	3. 5. 1995	x	x	x	2-12	3. 5. 1995	x	x	x
1-4a	15. 4. 2003	x	x	x	2-13	3. 5. 1995	x	x	x
1-4b	3. 5. 1995	x	x	x	2-14	15.12.1993	x	x	x
1-5	30. 4. 1996	x		x	2-15	15.12.1993	x	x	x
1-6	30. 4. 1996	x		x	2-16	2. 2. 1995	x	x	x
1-7	6. 4. 1994	x	x	x	2-16a	15. 4. 2003	x	x	x
1-8	15.12.1993	x		x	2-16b	15. 4. 2003	x	x	x
1-9	6. 4. 1994	x	x	x	2-17	30. 4. 1996	x	x	x
1-10	15.12.1993	x		x	2-18	3. 5. 1995	x	x	x
1-11	6. 4. 1994	x	x	x	2-19	15.12.1993	x	x	x
1-12	3. 5. 1995	x		x	2-20	1. 6. 1994	x	x	x
1-13	15.12.1993	x		x	2-21	6. 4. 1994	x	x	x
1-14	15.12.1993	x		x	2-22	15.12.1993	x	x	x
1-15	15.12.1993	x		x	2-23	15.12.1993	x	x	x
1-16	3. 5. 1995	x		x	2-24	1. 2. 1995			
1-17	15.12.1993	x		x					
1-18	6. 4. 1994	x	x	x	3-1	15.12.1993	x	x	x
1-19	15.12.1993	x		x	3-2	1. 2. 1995			
1-20	3. 5. 1995	x		x	3-3	1. 2. 1995	x	x	x
1-21	3. 5. 1995	x		x	3-4	1. 6. 1994	x	x	x
1-22	3. 5. 1995	x		x	3-5	1. 6. 1994	x	x	x
1-23	6. 4. 1994	x	x	x	3-6	6. 4. 1994	x	x	x
1-24	1. 2. 1995	x	x	x	3-7	6. 4. 1994	x	x	x
1-25	3. 5. 1995	x	x	x	3-8	15.12.1993	x	x	x
1-26	1. 2. 1995	x	x	x	3-9	3. 5. 1995	x	x	x
1-27	3. 5. 1995	x	x	x	3-10	6. 4. 1994	x	x	x
1-28	6. 4. 1994	x	x	x	3-11	3. 5. 1995	x	x	x
1-29	3. 5. 1995	x	x	x	3-12	15.12.1993	x	x	x
1-30	3. 5. 1995	x	x	x	3-13	3. 5. 1995	x	x	x
1-31	25.10.1996	x	x	x	3-14	1. 2. 1995			
1-32	25.10.1996	x	x	x					
1-33	25.10.1996	x	x	x					
1-34	25.10.1996	x	x	x					
1-35	25.10.1996	x	x	x					
1-36	3. 5. 1995	x	x	x					

LIST OF EFFECTIVE PAGES

Page No.	Date of issue	Approved			Page No.	Date of issue	Approved		
		TC	FAA	CAI			TC	FAA	CAI
4-1	15.12.1993	x	x	x	5-7	15.12.1993	x	x	x
4-2	1. 2.1995				5-8	15.12.1993	x	x	x
4-3	15.12.1993	x	x	x	5-9	1. 2.1995	x	x	x
4-4	6. 4.1994	x	x	x	5-10	1. 2.1995	x	x	x
4-5	15.12.1993	x	x	x	5-11	1. 2.1995	x	x	x
4-6	30. 9.1998	x	x	x	5-12	1. 2.1995	x	x	x
4-7	3. 5.1995	x	x	x	5-13	15.12.1993	x	x	x
4-8	3. 5.1995	x	x	x	5-14	3. 5.1995	x	x	x
4-9	3. 5.1995	x	x	x	5-15	3. 5.1995	x	x	x
4-10	3. 5.1995	x	x	x	5-16	15.12.1993	x	x	x
4-11	3. 5.1995	x	x	x	5-17	1. 2.1995			
4-12	3. 5.1995	x	x	x	5-18	1. 2.1995			
4-13	6. 4.1994	x	x	x	5-19	15.12.1993			
4-14	3. 5.1995	x	x	x	5-20	1. 2.1995			
4-15	15.12.1993	x	x	x	5-21	1. 2.1995			
4-16	1. 2.1995	x	x	x	5-22	1. 2.1995			
4-17	1. 2.1995	x	x	x	6-1	15.12.1993	x	x	x
4-18	3. 5.1995	x	x	x	6-2	1. 2.1995			
4-19	3. 5.1995	x	x	x	6-3	3. 5.1995	x	x	x
4-20	1. 6.1994	x	x	x	6-4	3. 5.1995	x	x	x
4-21	3. 5.1995	x	x	x	6-5	3. 5.1995	x	x	x
4-22	15.12.1993	x	x	x	6-6	3. 5.1995	x	x	x
4-23	15.12.1993	x	x	x	6-7	6. 4.1994	x	x	x
4-24	1. 2.1995	x	x	x	6-8	1. 2.1995	x	x	x
4-25	30. 4.1996	x	x	x	6-9	15.12.1993	x	x	x
4-26	30. 4.1996	x	x	x	6-10	3. 5.1995	x	x	x
4-27	1. 2.1995	x	x	x	6-11	3. 5.1995	x	x	x
4-28	30. 4.1996	x	x	x	6-12	15.12.1993	x	x	x
4-29	30. 4.1996	x	x	x	6-13	15.12.1993	x	x	x
4-30	15.12.1993	x	x	x	6-14	1. 2.1995	x	x	x
4-31	15.12.1993	x	x	x	6-15	3. 5.1995	x	x	x
4-32	30. 4.1996	x	x	x	6-16	3. 5.1995	x	x	x
5-1	3. 5.1995	x	x	x					
5-2	1. 2.1995								
5-3	15.12.1993	x	x	x					
5-4	30. 4.1996	x	x	x					
5-5	15.12.1993	x	x	x					
5-6	15.12.1993	x	x	x					

NOTE:

Section 7 consists of the separate Supplements which are included in the Flight Manual in accordance with the aircraft equipment. Each supplement is provide with the individual List of effective pages.

Log of revisions (continuation from page 1-4)

Rev. No.:	Description/eligibility	Pages affected:	Date of issue of new page	Date of revision incorporation and signature
5	19. series design changes. Airplanes S/N 0691 and up.	0-1,0-5,0-6,1-1,1-4,1-4a,1-4b,1-12,1-16,1-20,1-21,1-22,1-25,1-27,1-29,1-30,1-31,1-32,1-33,1-34,1-35,1-36,2-5,2-12,2-13,2-18,3-9,3-11,3-13,4-6,4-7,4-8,4-9,4-10,4-11,4-12,4-14,4-18,4-19,4-21,4-26,5-1,5-14,5-15,6-3,6-4,6-5,6-6,6-10,6-11,6-15,6-16	May 3, 1995	INCORPORATED BY MANUFACTURER
6	Cold weather operation All Z242L aircraft	0-1,0-5,0-6,1-4a,4-6	Apr 12, 1996	INCORPORATED BY MANUFACTURER
7	Tail slide and using gyro instruments after acrobatics All Z242L aircraft	0-1,0-5,0-6,1-4a,1-5,1-6,2-17,4-21,4-26,4-28,4-29,4-32,5-4	Apr 30, 1996	INCORPORATED BY MANUFACTURER
8	a) Cold weather operation All Z242L aircraft b) Formal modifications Airplanes S/N 0691 and up	0-1,0-5,0-6,1-4a,1-31,1-32,1-33,1-34,1-35,4-6	Oct 25, 1996	INCORPORATED BY MANUFACTURER
9	Cold weather operation All Z242L aircraft	0-1,0-5,0-6,1-4a,4-6	Sep 30, 1998	INCORPORATED BY MANUFACTURER
10	CAA-FAA load spectrum	0-1,0-5,1-4a,2-16a,2-16b	Apr 15, 2003	

Log of revisions (continuation from page 1-4a)

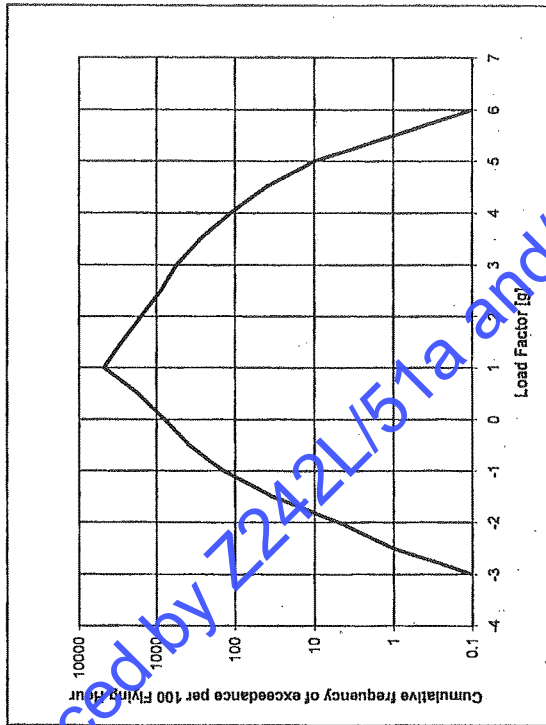
Rev. No.:	Description/eligibility	Pages affected:	Date of issue of new page	Date of revision incorporation and signature

Bulletin replaced by Z242L/51a and/or Z242L/52a

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Bulletin replaced by Z242L/51a and/or Z242L/52a

2.15.3 CAA-FAA load spectrum



Load factor	Cumulative frequency of exceedance per 100 Flying hours
-3	0.1
-2.5	1
-2	5
-1.5	33
-1	140
-0.5	383
0	784
0.5	1740
1	4790
1.5	2841
2	1586
2.5	884
3	557
3.5	275
4	114
4.5	40
5	10
5.5	1
6	0.1

ZÁMĚRNĚ NEPOUŽITO

Bulletin replaced by Z242L/51a and/or Z242L/52a

2.16 AKROBATICKÉ OBRATY2.16.1 Třída Akrobatická (A) a Cvičná (U)

V akrobatické třídě jsou povoleny následující letové a akrobatické obraty. V třídě cvičné jsou povoleny pouze obraty 1-12.

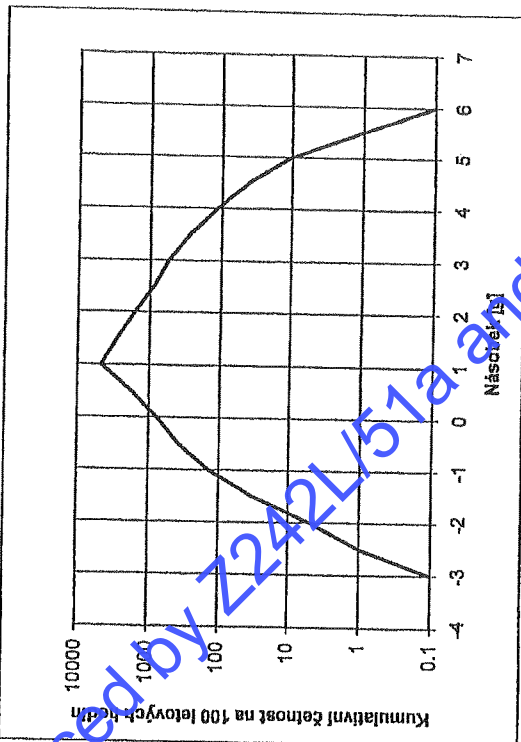
Poř. čís.	Název	vstupní rychlost (knots)IAS	
		knots	km/h
1.	Ostrá zatáčka (náklon větší než 45°)	min.108	min. 200
2.	Stoupavá zatáčka	min.119	min. 220
3.	Přemet	min.130	min. 240
4.	Překrut	min.140	min. 260
5.	Zvrat	max. 85	max. 160
6.	Souvrat	min.119	min. 220
7.	Řízený výkrut	min. 97	min. 180
8.	Kopaný výkrut	max. 94	max. 175
9.	Strmé přetažení (pád po ocase)	min.119	min. 220
10.	Vývrtka	65	120
11.	Let na zádech	min. 97	min. 180
12.	Zatáčka na zádech	min. 97	min. 180
13.	Obrácený přemet z normálního letu	max. 65	max. 120
14.	Obrácený přemet z letu na zádech	min.140	min. 260
15.	Vývrtka na zádech	70	130

UPOZORNĚNÍ:

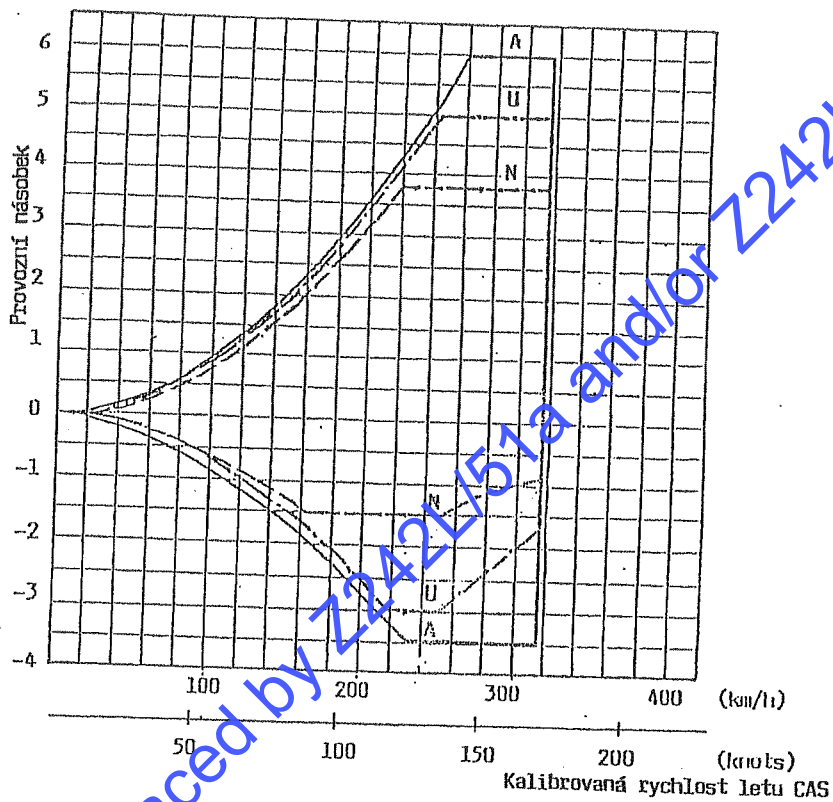
UVEDENÉ AKROBATICKÉ OBRATY JE MOŽNO PROVÁDĚT V OBSAZENÍ SOLO I VE DVOU V LIBOVOLNÉM POŘADÍ, V RŮZNÝCH KOMBINACÍCH A VE VŠECH ROVINÁCH PŘI DODRŽENÍ NÁSLEDUJÍCÍCH OMEZENÍ:

- (1) HMOTNOSTÍ A CENTRÁŽÍ - ČLÁNEK 2.3-2.5
- (2) OMEZENÍ POHONNÉ JEDNOTKY - ČLÁNEK 2.6-2.7
- (3) OMEZENÍ RYCHLOSTÍ, PROVOZNÍCH NÁSOBKŮ A OBÁLKY OBRATŮ - ČLÁNEK 2.13-2.15
- (4) ÚMYSLNÉ VÝVRTKY S VYSUNUTÝMI VZTLAKOVÝMI Klapkami JSOU ZAKÁZÁNY!
- (5) PROVÁDĚNÍ AKROBATICKÝCH OBRATŮ JE ZAKÁZÁNO:
  - S PALIVEM VE VNĚJŠÍCH NÁDRŽÍCH
  - SE ZAVAZADLY V ZAVAZADLOVÉM PROSTORU



2.15.3 Spektrum zatížení CAA-FAA

Násovek [g]	Kumulativní četnost na 100 letových hodin
-3	0.1
-2.5	1
-2	5
-1.5	33
-1	140
-0.5	383
0	784
0.5	1740
1	4790
1.5	2841
2	1586
2.5	884
3	557
3.5	275
4	114
4.5	40
5	10
5.5	1
6	0.1

2.15.2 Obálka obrátů

VYSVĚTLIVKY:

- |           |   |                   |
|-----------|---|-------------------|
| —         | A | Třída AKROBATICKÁ |
| — · —     | U | Třída CVIČNÁ      |
| — · — · — | N | Třída NORMÁLNÍ    |

Rev.

2. 2. 1995

Schváleno SLI Praha

2 - 13

LIST OF EFFECTIVE PAGES

Page No.	Date of issue	Page No.	Date of issue	Page No.	Date of issue
0-1	15.7.1991	2-16	15.7.1991	2-52A	25.9.2002
0-2	-	2-17	15.7.1991	2-53A	25.9.2002
0-3	15.4.2003	2-18	15.7.1991	2-54	25.9.2002
0-4	15.4.2003	2-19	15.7.1991	2-54A	25.9.2002
0-5	25.9.2002	2-20	15.7.1991	2-55	25.9.2002
0-6	15.4.2003	2-21	15.7.1991	2-56	25.9.2002
0-7	15.7.1991	2-22	15.7.1991	2-56A	25.9.2002
0-8	-	2-23	15.7.1991	2-57	25.9.2002
		2-24	15.7.1991	2-58	25.9.2002
		2-25	15.7.1991	2-59	25.9.2002
		2-26	15.7.1991	2-58A	25.9.2002
1-1	1.7.1994	2-27	15.7.1991	2-59A	25.9.2002
1-2	-	2-28	15.7.1991	2-60	25.9.2002
1-3	25.9.2002	2-29	15.7.1991	2-61	25.9.2002
1-4	15.7.1991	2-30	15.7.1991	2-62	25.9.2002
1-5	15.7.1991	2-31	15.7.1991	2-63	25.9.2002
1-6	1.7.1994	2-32	15.7.1991	2-64	15.7.1991
1-7	1.7.1994	2-33	15.7.1991		
1-8	1.7.1994	2-34	15.7.1991		
1-9	1.7.1994	2-35	15.7.1991		
1-10	1.7.1994	2-36	15.7.1991		
		2-37	28.4.1994		
		2-38	15.7.1991	3-1	15.7.1991
		2-39	15.7.1991	3-2	-
		2-40	15.7.1991	3-3	15.7.1991
		2-41	15.7.1991	3-4	15.7.1991
		2-42	15.7.1991	3-5	15.7.1991
2-1	25.9.2002	2-43	15.7.1991	3-6	15.7.1991
2-2	25.9.2002	2-44	28.4.1994	3-7	15.7.1991
2-3	25.9.2002	2-45	25.9.2002	3-8	15.7.1991
2-4	25.9.2002	2-46	25.9.2002	3-9	15.7.1991
2-5	15.7.1991	2-47	25.9.2002	3-10	15.7.1991
2-6	15.7.1991	2-48	25.9.2002	3-11	15.7.1991
2-7	15.7.1991	2-49	25.9.2002	3-12	15.7.1991
2-8	15.7.1991	2-48A	25.9.2002	3-13	15.7.1991
2-9	15.7.1991	2-49A	25.9.2002	3-14	15.7.1991
2-10	15.7.1991	2-50	25.9.2002	3-15	15.7.1991
2-11	15.7.1991	2-51	25.9.2002	3-16	15.7.1991
2-12	15.7.1991	2-50A	25.9.2002	3-17	15.7.1991
2-13	15.7.1991	2-51A	25.9.2002	3-18	15.7.1991
2-14	15.7.1991	2-52	25.9.2002	3-19	15.7.1991
2-15	15.7.1991	2-53	25.9.2002	3-20	15.7.1991

LIST OF EFFECTIVE PAGES

Page No.	Date of issue	Page No.	Date of issue	Page No.	Date of issue
4-1	15.7.1991	5-9	15.7.1991	6-31	15.7.1991
4-2	15.7.1991	5-10	15.7.1991	6-32	15.7.1991
4-3	15.7.1991	5-11	20.10.1992	6-33	15.7.1991
4-4	15.7.1991	5-12	20.10.1992	6-34	15.7.1991
4-5	15.7.1991	5-13	20.10.1992	6-35	15.7.1991
4-6	15.7.1991	5-14	20.10.1992	6-36	15.7.1991
4-7	15.7.1991	5-15	20.10.1992	6-37	15.7.1991
4-8	15.7.1991	5-16	-	6-38	15.7.1991
4-9	15.7.1991			6-39	15.7.1991
4-10	15.7.1991			6-40	15.7.1991
4-11	15.7.1991			6-41	15.7.1991
4-12	15.7.1991	6-1	15.7.1991	6-42	-
4-13	15.7.1991	6-2	-		
4-14	15.7.1991	6-3	15.7.1991	7-1	15.7.1991
4-15	15.7.1991	6-4	15.7.1991	7-2	-
4-16	15.7.1991	6-5	15.7.1991	7-3	15.7.1991
4-17	15.7.1991	6-6	15.7.1991	7-4	15.7.1991
4-18	15.7.1991	6-7	15.7.1991	7-5	15.7.1991
4-19	15.7.1991	6-8	15.7.1991	7-6	15.7.1991
4-20	15.7.1991	6-9	15.7.1991	7-7	15.7.1991
4-21	15.7.1991	6-10	15.7.1991	7-8	15.7.1991
4-22	15.7.1991	6-11	15.7.1991	7-9	15.7.1991
4-23	15.7.1991	6-12	15.7.1991	7-10	15.7.1991
4-24	15.7.1991	6-13	15.7.1991	7-11	15.7.1991
4-25	15.7.1991	6-14	15.7.1991	7-12	15.7.1991
4-26	15.7.1991	6-15	15.7.1991	7-13	15.7.1991
4-27	15.7.1991	6-16	15.7.1991	7-14	15.7.1991
4-28	15.7.1991	6-17	15.7.1991	7-15	15.7.1991
4-29	15.7.1991	6-18	15.7.1991	7-16	15.7.1991
4-30	15.7.1991	6-19	15.7.1991	7-17	15.7.1991
		6-20	15.7.1991	7-18	15.7.1991
		6-21	15.7.1991	7-19	20.9.1999
		6-22	15.7.1991	7-20	15.7.1991
		6-23	15.7.1991		
		6-24	15.7.1991	9-1	15.4.2003
		6-25	15.7.1991	9-2	15.4.2003
		6-26	15.7.1991	9-3	15.4.2003
		6-27	15.7.1991	9-4	15.4.2003
		6-28	15.7.1991		
		6-29	15.7.1991		
		6-30	15.7.1991		
5-1	20.10.1992				
5-2	-				
5-3	15.7.1991				
5-4	15.7.1991				
5-5	15.7.1991				
5-6	20.10.1992				
5-7	15.7.1991				
5-8	15.7.1991				

NOTE:

The List of effective pages of Section 8 - Supplementes - is included in front of this Section (page 8-3).

LIST OF CHANGES

Change No.	No. of Bulletin ordering the change	Pages affected	Date of Revision	Performed on signature
1	Z 142 C/1	0-3,0-4,1-9,5-1, 5-6,5-11,5-12, 5-13,5-14,5-15	20.10.1992	
2	Z 142 C/6a	0-3,2-37,2-44	28. 4.1994	
3	Z 142 C/5a	0-3,0-4,0-5,1-1, 1-6,1-7,1-8,1-9, 1-10,9-1,9-2,9-3, 9-4	1. 7.1994	
4	Z 142 C/8a	0-3,0-5,2-1,2-3, 2-4, FROM 2-47 TO 2-63	1.11.1994	
5	Z 142 C/15a	0-3,0-4,0-5,2-56, 2-57,2-19	20.9.1999	
6	Z 142 C/18a	0-3,0-4,0-5,9-1, 9-2,9-3,9-4	31.10.2000	
7	Z 142 C/19a	0-3,0-4,0-5,9-1, 9-2,9-3	23.11.2000	
8	Z 142 C/20a	0-3,0-4,0-5,9-1, 9-2,9-3	24.11.2000	
9	Z 142 C/22a	0-3,0-4,0-5,9-1, 9-2	13. 4.2001	
10	Z 142 C/25a	0-3;0-4;0-5;1-3; 2-1;2-2;2-3;2-4; 2-45 to 2-63;9-1; 9-2;9-3;9-4;9-5; 9-6	25.9.2002	

LIST OF CHANGES

Change No.	No. of Bulletin ordering the change	Pages affected	Date of Revision	Performed on signature
11	Z 142 C/18a- Rev. 1	0-3,0-4,0-6,9-1, 9-2,9-3,9-4	15.4.2003	
<p>Bulletin replaced by Z242L/51a and/or Z242L/52a</p>				

EFFECTIVITY: ALL

## CHAPTER 9 - AIRWORTHINESS LIMITATIONS

This Airworthiness Limitations section is:

Approved by the Minister and specifies maintenance required under any applicable airworthiness or operating rule, unless an alternative program has been approved by the Minister. (aircraft registered in Canada).

Bulletin replaced by Z242L/51a and/or Z242L/52a

Approved by: CAA CZ

15.4.2003

EFFECTIVITY: ALL

Safe-life concept is applied to the Z 142 C aircraft.  
Safe life time is limited at following parts:

- |   |                            |    |
|---|----------------------------|----|
| 1. Engine<br>M 337 AK   |                            | 3) |
| 2. Propeller<br>V 500 A   |                            | 3) |
| 3. The Airframe   | 5500 flight hours          | 1) |
| 4. Main Landing Gear Legs<br>Z 42.5100-00.09 (L.H.)<br>Z 42.5100-00.10 (R.H.) | 2500 flight hours          | 2) |
| 5. Nose Landing Gear Strut<br>793 HPK-185-19-7                                | 3500 flight hours          | 4) |
| 6. Rubber hoses   | max. 10 years of operation |    |

Bulletin replaced by Z242L/51a and/or Z242L/52a



EFFECTIVITY: ALL

NOTE:

- (1a) 190 flight hours in (A) or (U) categories during aircraft safe life time are permitted for aircraft up to S/N 0560 inclusive (aircraft with unstrengthened wings on which the Mandatory Bulletin Z 142 C/19a or 19a-Rev. 1 has not been accomplished) with total safe life time of 3500 hours TIS.
- (1b) Total safe life time of the Z 142 C aircraft with strengthened wings (aircraft from S/N 0561 inclusive and up to S/N 0560 inclusive on which the Mandatory Bulletin Z 142 C/19a or 19a-Rev. 1 has been accomplished) operated within CAA-FAA load spectrum is 5500 hours TIS without Acrobatic and Utility limitations.
- (1c) Acrobatic or Utility operation of the Z 142 C aircraft is limited to 700 hours TIS with total safe life time of 5500 hours TIS for aircraft with strengthened wings (aircraft from S/N 0651 inclusive and up to S/N 0560 inclusive on which the Mandatory bulletin Z 142 C/19a or 19a-Rev. 1 has been accomplished) for operation over the CAA-FAA load spectrum.

Operation only in Normal (N) category is permitted after reaching 700 hours TIS in acrobatic (A) and Utility (U) categories of operation over the CAA-FAA spectrum without wings replacement.

Aircraft operator shall record information of aerobatic flights to the Aircraft Log Book.

Acrobatic flight is a flight from take-off to landing during which acrobatic maneuvers permitted in the Flight Manual for Acrobatic (A) and Utility (U) categories are performed.

- (2) This limitation may be exceeded up to the total number of 11 000 landings if the operator of appropriate aircraft registers a number of landings by a demonstratable manner.
- (3) The Engine and Propeller technical lives are determined in the accompanying documentation of engine and propeller manufacturer.
- (4) This limitation may be exceeded up to the total number of 15 000 landings if the operator of appropriate aircraft registers a number of landings by a demonstratable manner.

EFFECTIVITY: ALL

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Bulletin replaced by Z242L/51a and/or Z242L/52a