B.2102-0BBF

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Flight Manual Supplement

Older Equipment

(Applicable for balloons of serial number 640 and higher.)

Type: .....

Model: .....

Serial No.: .....

Registration: .....

This Manual is EASA approved under Approval Number: **EASA.BA.C.01171**
Date of initial approval: 20 February 2009

This balloon is to be operated in compliance with information and limitations contained herein.
The Flight Manual has to be placed in the basket during flight.

0.1 RECORD OF REVISIONS

Any revision of the present Supplement, must be recorded in the following table. The new or amended text in the revised page will be indicated by a black vertical line in the margin, and the Revision No. and the date will be shown on the bottom of the page.

All changes to this Flight Manual Supplement which were made before the date of the issue stated on the title page have been incorporated into this Manual.

Revision Number	Affected Section	Affected Pages	Date of Issue	Approval	Date of Approval
1	0 2	OBBF-2 OBBF-5	24 Feb 2009	EASA.BA.C.01179	11 Mar 2009
2	0 2	OBBF-2 OBBF-5	26 Nov 2009	EASA.BA.C.01180	26 Nov 2009
3	0 2	OBBF-2 OBBF-5	28 Jan 2010	EASA.BA.C.01207	28 Jan 2010
4	0 2 6 8	OBBF-2, OBBF-3 OBBF-5, OBBF-6 OBBF-7 OBBF-8	10 May 2010	00100004491-001	10 May 2010

0.3 LIST OF EFFECTIVE PAGES

Section	Page	Date of Issue
0	OBBF-2	10 May 2010
	OBBF-3	10 May 2010
	OBBF-4	15 Dec 2008
1	OBBF-5	15 Dec 2008
2 (Appr.)	OBBF-5	10 May 2010
	OBBF-6	10 May 2010
3 (Appr.)	OBBF-7	10 May 2010
4 (Appr.)	OBBF-7	10 May 2010
5	OBBF-7	10 May 2010
6	OBBF-7	10 May 2010
7	OBBF-7	10 May 2010
8	OBBF-8	10 May 2010
9	OBBF - 9	10 May 2010

NOTE:

The sections or specific pages identified with "Appr." have been approved by EASA.

CONTENTS

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SECTION 1 - GENERAL

1.1 INTRODUCTION

This Supplement to the Flight Manual provides information and limitations applicable for older burners and burner frames. The arrangement and numbering of sections in this Supplement is the same as in the Flight Manual. If any section is influenced, only the different or additional information is stated in this Supplement, all other remain without any change.

1.2 APPLICABILITY

Information and limitations stated in this Supplement apply if any of following equipment is used with the BB balloon of the envelope serial number 640 and higher:

- burners **H3, H3-D, H4 or HB2**
- **AEROTECHNIK** baskets and fuel cylinders
- baskets **K32T or K40Y** is fitted with a burner of whatever Kubicek type (including KOMET and IGNIS) mounted in burner frame **without the symbol "S/N"** before its serial number

SECTION 2 - OPERATIONAL LIMITATIONS

2.2 WEATHER LIMITATIONS

The maximum wind speed for BB60 and BB60Z balloons take-off using the Y-type quick release: **6.0 m/s (11.7 kts)**

The maximum wind speed for BB70Z balloons take-off using the Y-type quick release: **5.5 m/s (10.7 kts)**

2.10 BASKETS

Baskets Limitations:

Basket	Floor area		Load capacity		Max. Number of Occupants
	[m^2]	[sq. ft]	[kg]	[lb]	
J1	1.52	16.3	600	1 322	4
J2	1.66	17.9	900	1 982	6

2.11 FITMENT INTERCHANGEABILITY

Approved Combinations of BB Envelopes and Baskets AEROTECHNIK:

	Basket	
Envelope model	**J1**	**J2**
BB20, BB20GP		
BB22, BB22N, BB22Z		
BB26, BB26N, BB26Z		
BB30N, BB30Z		
BB34Z		
BB37N, BB37Z		
BB42Z		

Approved Combinations of BB Envelopes and Older Burners:

	Burner			
Envelope model	**H3**	**H3-D**	**HB2**	**H4**
BB9				
BB12				
BB16				
BB17GP, BB17XR				
BB20, BB20E, BB20GP				
BB20XR				
BB22, BB20E, BB22N, BB22Z				
BB26, BB26E, BB26N, BB26Z				
BB30N, BB30Z				
BB34Z				
BB37N, BB37Z				
BB40Z				
BB42Z				
BB45N, BB45Z				
BB51Z				
BB60N, BB60Z				
BB70Z				

Explanation:

= approved combination

SECTION 3 - EMERGENCY PROCERURES

No change

SECTION 4 - NORMAL PROCERURES

No change

SECTION 5 - WEIGHT

No change

SECTION 6 - BALLOON AND SYSTEMS DESCRIPTION

6.5.6 Fuel Supply

NOTE:

Burners H3-D are fitted with crossflow falve. With the crosflow valve open the fuel is supplied from one fuel cylinder when both main blast valves are operated at the same time

6.5.11 Burners H3, H3-D, HB2 and H4

H3, H3-D HB2 and H4 burners are of similar design with only minor differincies in vaporizing coil and its lower cup. The control is the same.

H4 burner is a triple burner composed of three HB2 units. Its control is the same as on HB2.

All burners are fed by two hoses of vapour and liquid phase. The amount of pilot flame is regulated by the valve on the fuel cylinder.

All of these burnes are supported in a swinging frame so that a smoth motion is possible.

SECTION 7 - BALLOON HANDLING, CARE AND MAINTENANCE

No change

SECTION 8 - EQUIPMENT LIST AND APPENDICES

8.1 EQUIPMENT LIST

Table of Baskets Aerotechnik:

Basket Model	Basket Description	Typical Basket Weight	
		[kg]	[lb]
J1	(123 - 128) x (123 ± 5) Open	72	159
J2	(135 - 140) x (123 ± 5) Open	76	167

Table of Burners

Burner Model	Burner Description	Applicable Burners Frames	Typical Burner Weight* (including fuel hoses and frame)	
			[kg]	[lb]
H3	Single burner	Fixed Frame - H3 type	16	35
H3-D	Double burner	Fixed Frame - H3 type	20	44
HB2	Double burner	Fixed Frame - H7 type	24	53
H4	Triple burner	Fixed Frame - H4 type	42	93

* The weight of specific burner is recorded in the log book of the balloon of which it was originally a part.

Table of Fuel Cylinders Aerotechnik:

Manufacturer	Material	Type	Weight			
			Empty		Full	
			[kg]	[lb]	[kg]	[lb]
Aerotechnik	Stainless steel	S 23	17	37	40	88

NOTE:

The above fuel cylinders can be used in addition to a standard range of fuel cylinders staded in chapter 8.1 of the Flight Manual.

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