

# Flight Manual Supplement

## *Older Burners and Burner Frames*

(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

### 0.3 LIST OF EFFECTIVE PAGES

Section	Page	Date of Issue
0	OBBF-2	15 Dec 2008
1	OBBF-5	15 Dec 2008
2 (Appr.)	OBBF-5	24 Feb 2009
	OBBF-6	15 Dec 2008
3 (Appr.)	OBBF-6	15 Dec 2008
4 (Appr.)	OBBF-6	15 Dec 2008
5	OBBF-6	15 Dec 2008
6	OBBF-6	15 Dec 2008
7	OBBF-7	15 Dec 2008
8	OBBF-7	15 Dec 2008

**NOTE:**

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

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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**
- basket **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)**

### 2.11 FITMENT INTERCHANGEABILITY


Approved combinations of BB envelopes and burners:

Envelope size*	Burner			
	H3	H3-D	HB2	H4
BB9				
BB12				
BB16				
BB17GP				
BB20				
BB20 XR				
BB22				
BB26				
BB30				
BB34				
BB37				
BB40				

Envelope size*	Burner			
	H3	H3-D	HB2	H4
BB42				
BB45				
BB51				
BB60				
BB70				

\* Unless otherwise specified the envelope size apply to all models (E, O, N, Z, GP, XR)

**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 crossflow valve open the fuel is supplied from one fuel cylinder when both main blast valves are operated at the same time*

**6.5.10 Burners H3D, HB2 and H4**

H3, H3-D and HB2 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 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.

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