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# Flight manual Supplement

*for BB balloons registered in Ukraine*

*This supplement is approved by the State Aviation Administration of  
the Ministry of Transport and Communications of Ukraine*

Міністерство транспорту та зв'язку України	Ministry of Transport and Communication of Ukraine
Державна авіаційна адміністрація (Державіаадміністрація)	State Aviation Administration
<b>СХВАЛЕНО</b> <b>APPROVED</b>	
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**This balloon is to be operated in compliance with information and limitations contained in this supplement and the Flight Manual. Both documents have 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

### 0.3 List of Effective Pages

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## SECTION 1 - GENERAL

### 1.1 Introduction

This Supplement to the Flight Manual provides information and limitations applicable for BB balloons registered in Ukraine. 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 Descriptive Data

#### 1.4.2 Basket

Basket model table - technical data:

Basket	Width [ cm ]	Length [ cm ]	Height [ cm ]	Weight [ kg ]	Load Capacity [ kg ]	Max. No. Occupants
K7	85±5	85 - 100	110+5	50	450	2
K10	85±5	100 - 116	110+5	60	600	4
K11	98	116	103 - 114	70	650	4
K12	116±5	116 - 126	110+5	80	700	5
K12A	116±5	116 - 126	110+5	80	700	5
K13	98	125	103 - 114	80	700	4
K15	116±5	125 - 135	110+5	85	800	5
K16	116±5	140 - 150	110+5	90	900	6
K17	116	145	103 - 114	90	900	6
K18	116±5	155 - 180	110+5	100	950	7
K22	125±5	179 - 183	110+5	105	980	7
K25P	125±5	208 - 226	110+5	140	1000	9
K32T	125±5	241 - 245	115±5	160	1100	10
K40Y	163±5	250 - 260	115±5	220	1200	12
K50	160±5	300	115±5	270	1400	13*
K60	170±5	350	115±5	320	1800	18**

The basket dimensions refer to nominal outside dimensions; heights are measured from a basket floor to the basket edge.

\* Occupancy of K50 basket: Pilot may place one person into the middle compartment if there is no more than four fuel cylinders. Otherwise no more than six persons may be placed in one compartment.

\*\*Occupancy of K60 basket: Pilot may place one person into the pilot compartment if there is no more than five fuel cylinders. Otherwise no more than four persons may be placed in one compartment



**CAUTION:**

Maximum occupancy for open baskets is 1 pilot + 6 passengers.

**NOTE:**

The tabulated weights are an indicative figure only. The actual weight is indicated by index plate on each basket. The actual weight indicates the total weight including minimum equipment and burner rods.

The basket equipment included in the empty weight indicated on the plate is:

- fire extinguisher, fire resistant cloth (in the bag attached to the basket wall)
- drop line

## SECTION 2 - OPERATIONAL LIMITATIONS

### 2.7 Fuel

Approved fuel: propane or LPG (propane-butane mixture).

### 2.10 Crew and Load

The minimum crew: one pilot

The minimum load: see table 2.6

The maximum crew: a pilot and other occupants, whose number does not exceed the permitted one according to the basket type

The maximum load: the total sum of minimum equipment according to para 2.12, weights of all items and people in the basket, including full weights of cylinders, must not exceed the load capacity of the basket.

### 2.11 Operational Categories

VFR day flights are approved only.



## 2.13 Fitment Intrechangeability

Approved combinations of BB envelopes and burners:

Envelope size*	Burners				
	KOMET DUO up to 104	KOMET DUO 105+	KOMET TRIO	IGNIS 2 units	IGNIS 3 units
BB12					
BB16					
BB17GP					
BB20					
BB20E					
BB20GP					
BB20 XR					
BB22					
BB26					
BB30					
BB34					
BB37					
BB42					
BB45					
BB51					
BB60					
BB70					
BB85					

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

\*\* The K10 basket of s/n 124 and higher are to be combined with Komet Duo and Ignis - two units burners.

## 2.14 Other limitations

### Flight Level

The balloon without oxygen apparatuses and masks must not be flown at altitudes with ambient air pressure lower than 700 hPa. This pressure corresponds to the altitude 3 000 m in ISA conditions.

### Pilot restraint harness

In partitioned baskets using of the pilot restraint harness in mandatory.



**SECTION 3 - EMERGENCY PROCEDURES**

No change

**SECTION 4 - NORMAL PROCEDURES**

No change

**SECTION 5 - PERFORMANCE**

No change

**SECTION 6 - WEIGHT****6.2 Admissible weight****NOTE:**

*The actual weight is to be read from plates or determined by weighing.*

**SECTION 7 - BALLOON AND SYSTEM DESCRIPTION**

No change





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