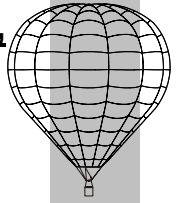


9.12 Flight Manual supplement – The Use of Fantasy Basket, Burners and Cylinders with Ultramagic envelopes.



9.12.1 General Information.

This supplement is issued to cover additional actions to be taken to safely and efficiently use Fantasy baskets, burners and cylinders with Ultramagic envelopes.

9.12.2 Limitations

9.12.2.2 Meteorological Limitations.

Maximum demonstrated surface winds;

- (a) Take off - 11km/hr (7mph)
- (b) Landing – 19km/hr (12mph)

9.12.2.5 Fuel

CAUTION : Care should be exercised when pressures drop below 80 p.s.i. The best operating range is 100 – 120 p.s.i.

WARNING : Do not open both burner valves on the single burner at the same time.

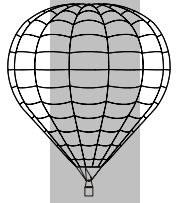
WARNING : At least 2 full fuel tanks equipped with fuel quantity gauges must be fitted for take off with one tank connected to either side of fuel system for redundancy. Ends of fuel lines not in use **MUST** be capped.

NOTE: The maximum number of fuel tanks that can be carried in Fantasy baskets is four. The Fantasy E – type basket 46” x 70” is designed for use with 15 gal. Stainless steel tanks only, and will only accommodate 3 of these tanks.

9.11.2.6 Loading

The maximum take off mass is limited when using Fantasy baskets and Burners as shown in the following table. This figure must not be exceeded or the limit determined with the use of the load chart in Flight Manual section 5.2, whichever is the lower.

Envelope Volume (ft3)	Burner Type or Basket type	Maximum take off Mass (Kg)
56,000	all applicable	500
65,000	all applicable	500
77,000	all applicable	659
90,000	all applicable	682
105,000	Single or dual A-type burner (round)	682
105,000	Dual F-type burner (square) only	818
120,000	Dual F-type burner (square) only	909
120,000	Dual F-type burner (square) with 46” x 70” T partition basket only	1090



9.12.2.15 Other manufacturers equipment.

The burners and baskets manufactured by Fantasy which may be used in combination with Ultramagic envelopes are listed in section 9.12.8

9.12.3 Emergency Procedures

9.12.3.2 Pilot Light Failure

If the pilot light should go out for any reason, it should be relit if possible. If this is not possible then proceed as follows.

Dual Burners:

Transfer control to the functioning burner.

Shut down faulty burner and drain line.

Land as soon as possible.

Single F-Type Burner

Cylinder Fuel Valve – closed

Burner main valve – locked or held open.

Cylinder Fuel Valve – fractionally open, to allow a small amount of fuel to the burner.

Main Burner – ignite with sparker, match or other source of ignition lighting several inches above the main jets.

Cylinder Fuel Valve – Open fully to obtain normal burn.

Cylinder Fuel Valve – Close to fractional setting to turn burner off but to maintain a pilot light setting.

Land as soon as possible.

Single FX/2 Burner

If operating on Red fuel system when failure occurs proceed as follows:

By-Pass Valve (Black) – lock open.

Fuel Valve (Black) – open very slightly

By Pass burner (Black) – ignite with sparker, match or other source of ignition several inches above by-pass jets.

Adjust Fuel Valve – to maintain a pilot flame about 12 inches high.

Operate Red Fuel System – as required to obtain normal burn.

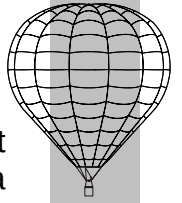
Land as soon as possible.

Note: The Red by-pass burner can be used as a back up pilot light when operating on the Black fuel system. However the same procedure applies which is –

Land as soon as possible.

Warning: Continuous operation of a propane valve at very low settings will result in some freezing and should only be practised for the shortest periods of time required to achieve a safe landing as soon as is possible.

Warning; The above procedures should be practised on the ground until proficiency in manually igniting the liquid by-pass burner and main burner, is attained.



9.12.4 Normal Procedures

Add.

Fantasy Mirage series gondolas are similar to Ultramagic in attachment connections to the envelope. Fantasy "E" and "F" type series gondola connections also have 4 Karabiner connection to the envelope but without a burner frame lug attachment point. In this case the Ultramagic envelope Karabiners must be attached to a "slave" Fantasy Karabiner attached to the Fantasy Gondola as shown in the applicable Flight Manual gondola connections for "F" type series connections.

9.12.5 Loading

No Change.

9.12.6 Balloon and Systems Description

Refer to the applicable Fantasy Flight Manual

9.12.7 Balloon Maintenance, Handling and Care

For inspections to Fantasy basket and burners refer to the applicable Fantasy Flight and Maintenance manuals.

9.12.8 Other Manufacturers Equipment.

9.12.8.3

Add the following.

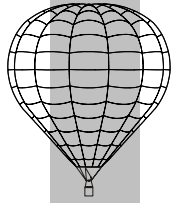
<u>FANTASY BASKETS</u>			
Basket Size (in.)	Type	Weight (lbs) inc. Instruments fire extinguisher and straps.	UM Envelope size range
47" x 47"	Fantasy (F)	146	65 - 90
47" x 56"	Fantasy (F)	170	65 - 120
42" x 42"	Mirage	140	56 - 77
42" x 50"	E - Type	154	56 - 90
42" x 56"	E - Type	164	65 - 120
46" x 70"	E – Type T partition.	224	105- 120

FANTASY BURNERS

Burner Type	Basket Type applicability	Burner Weight (lbs)	UM Envelope size range
A – Type Single	47 x 47 F	20	56 - 90
F – Type Single	47 x 47 F	20	56 - 105
	47 x 56 F		
	42 x 42 Mirage		
	42 x 50 E		
	42 x 56 E		
A – Type Dual	47 x 56 F	35	56 - 105
F – Type Dual	47 x 56 F	35	56 - 120
	42 x 50 F		
	42 x 56 E		
	46 x 70 E		

Note: All weights shown above are for guidance only. Actual weights must be recorded in Log book and Flight Manual.

Look at page 9 of Fantasy manual.



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