



HOT AIR BALLOON FLIGHT MANUAL

ISSUE 1.11

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Embodiment Instructions

Remove and replace existing pages numbered iii (a), v and 1.1.2. Insert new page 2.5.3a after 2.5.3.

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Record of Amendments (cont)

No.	Date	Affected Pages	Approval
8	8/98	iii(a) added, v,vi,ix,1.2.1, 1.2.5(c), 1.2.6(c),1.3.2(b) added	UK.CAA 09/11/1998
9	6/99	Header, all pages +iii(a), iv, v, vi, ix,1.2.1, 1.2.5c, 1.2.6c, 1.3.2b, 1.1.2, 2.6.1	UK.CAA 15/09/1999
10	2/07	iii(a), v, 1.2.1a (additional)	Revision nr Issue 1.10 to AFM Ref Sky FM Issue 1.9 is Approved under the authority of DOA nr EASA.21J.140  B.E.BOWER 21/02/07 
11	3/17	1.1.2 and 2.5.3a	Approved by EASA under approval number 10061396 23-March-17

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Checklist of Pages

Page	Issue	Page	Issue	Page	Issue
i	1.9	2.1.1	1.9	A1.1	1.9
ii *	1.9	2.1.2	1.9	A1.2	1.9
iii	1.9	2.1.3	1.9	A1.3	1.9
iii a	1.11	2.1.4	1.9	A1.4	1.9
iv	1.9	2.2.1	1.9	A1.5	1.9
v	1.11	2.2.2	1.9	A2.1	1.9
vi	1.9	2.3.1	1.9		
vii	1.9	2.4.1	1.9		
viii	1.9	2.4.2	1.9		
ix	1.9	2.4.3	1.9		
1.1.1	1.9	2.4.4	1.9		
1.1.2	1.11	2.4.5	1.9		
1.1.3	1.9	2.5.1	1.9		
1.2.1	1.9	2.5.2	1.9		
1.2.1a	1.10	2.5.3	1.9		
1.2.2	1.9	2.5.3a	1.11		
1.2.3	1.9	2.6.1	1.9		
1.2.4	1.9	2.6.2	1.9		
1.2.5a,b	1.9	2.6.3	1.9		
1.2.5c	1.9	3.1.1	1.9		
1.2.6a,b	1.9	3.2.1	1.9		
1.2.6c	1.9	3.2.2	1.9		
1.2.7	1.9 *~	3.3.1	1.9		
1.2.8	1.9	3.3.2	1.9		
1.3.1	1.9	3.3.3	1.9		
1.3.2	1.9	3.3.4	1.9		
1.3.2a	1.9	3.4.1	1.9		
1.3.2b	1.9	3.4.2	1.9		
1.3.3	1.9				

Pages indicated * shall be completed by Sky Balloons before this manual is issued.
Pages indicated ~ may also require weight data to be added by the owner operator.

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1.1.3 - Flight Limitations

- a) The maximum permitted rate of climb and descent for all Sky natural shape envelopes is 1000ft/min (5m/sec). At low flying weights (<60% maximum all-up weight) a maximum rate of 700ft/min (3.5m/sec) is recommended.
- b) The maximum continuous envelope temperature permitted is 120°C. Never exceed 127°C. In the absence of a temperature gauge this will be registered by the warning flag falling down.
- c) The weight of the balloon shall not exceed the lesser of the Maximum All-Up weight (As section 1.2.1) or that allowed by the load chart (as section 1.2.2)
- d) The parachute valve shall not be held open, in flight, for more than 3 seconds. Repeat operation however is permitted
- e) The minimum crew is 1 (pilot only).
- f) It is recommend that minimum take-off weight is more than 50% of maximum all-up weight.
- g) The balloon must not be flown into power lines.**
- h) The parachute vent must be checked for correct functioning after hot inflation prior to each flight

1.1.4 - Safety Equipment (minimum equipment)

The following minimum equipment must be carried:

- a) Protective gloves must be available to the pilot.
- b) Matches or other independent means of ignition in addition to any igniters built into the burner.
- c) A hand fire extinguisher.
- d) A rate of climb and descent indicator (variometer).
- e) An envelope temperature indicator which may either be of the continuous reading type or a type which gives a warning signal.
- f) For baskets having a separate pilot compartment, there must be a suitable restraint for the pilot.

All minimum equipment must be functional.

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2.5.6 - PILOT RESTRAINT HARNESS

For baskets having a separate pilot compartment, a pilot restraint harness conforming to CS-31 HB.63 must be used.

The pilot restraint harness may be worn at any time, but must be worn during low level flight. Before the landing approach, the pilot should tighten the strap by pulling the sewn handle.

WARNING: The pilot restraint harness must always be attached to the anchor point at floor level; it must never be attached to fixing points near the top of the basket wall.