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8.5 RAVEN-AEROSTAR ‘BOTTOM ENDS’ WITH CAMERON ENVELOPES

8.5.1 GENERAL INFORMATION

Issue 1 of this supplement has four pages.

There are no additional continued airworthiness instructions associated with this supplement.

This supplement was originally approved by CAA.UK as Supplement 19 to Flight Manual Issue 9 25 June 2003.

8.5.2 LIMITATIONS

8.5.2.2 Weather

- 4. If the basket model TWH is fitted, the balloon must not be flown free in surface winds greater than 8 knots (4.1 m/sec). The atmosphere must be stable.

8.5.2.9 Weight Range

- 4. For Models A-105, N-90, N-105, N-120, N-133, 0-84, 0-105, Z-90, Z-105, Z-120 and Z-133. If any of the following burners are installed, the maximum take off mass is limited to 666kg (1470 lb)-

COMMON BURNER NAME	DRAWING NUMBER
Four-Burner	R-12323
HP Dual	D-13050
Burner (no common name)	D-13180
HP II Convertible	D-17400

- 5. For the Models A-105, N-105, N-120, N-133, 0-105, Z-105, Z-120 and Z-133. If either the HP Dual Burner, Drawing D-14160, or the HP II Dual burner, Drawing D-17395, are installed with any of the following baskets, the maximum take off mass is then limited to 907kg (2000 lb)-

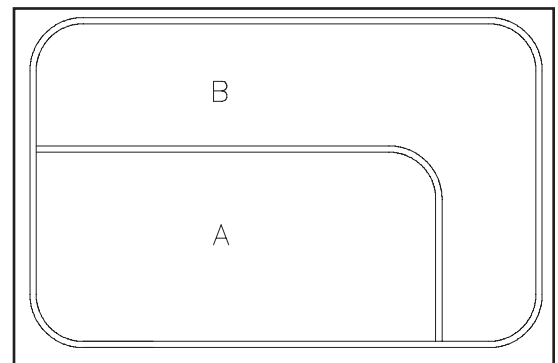
COMMON BASKET NAME	DRAWING NUMBER
Basket Model CW	D-13860
Basket Model CW-V	D-15325
Basket Model CW-S	D-51620

- For the Models N-133 and Z-133. If the Model TW basket is installed, the maximum take off mass is then limited to 1134kg (2500 lb).
- For the Models N-133, Z-133, Z-150 and A-160. If the Model TWX or TWH baskets are installed, the maximum take off mass is then limited to 1203kg (2652 lb).

8.5.2.15 Baskets

8.5.2.15.6 Raven TWH Basket

- The maximum number of occupants permitted in compartment A is 3.
- Lap straps must be worn by each occupant of compartment A.



▲ Figure 1 :TWH Basket Plan View

8.5.2.18 Equipment Interchangeability

- The burners and baskets manufactured by Raven-Aerostar which may be used in combination with Cameron envelopes are listed in Section 8.5.9 of this supplement.
- Only burner frames with four attachment points can be used.

8.5.3 EMERGENCY PROCEDURES

8.5.3.11 Pilot Light Failure

Check that the pilot light valves are open at both the burner and cylinder, then relight the pilot light with igniter.

If the pilot light cannot be re-lit within two or three actuations of the igniter, open the metering valve to allow a slow fuel flow, and ignite the metering valve (to provide a pilot light), then land as soon as practicable,

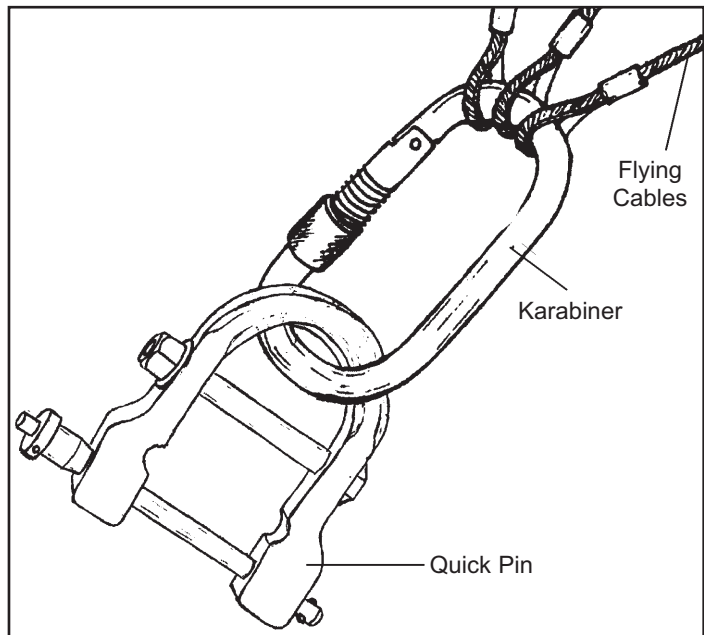
If re-light from any source is not possible, see Section 3.8 "Preparation for a Hard Landing"

Before any subsequent flight, identify and Correct the cause of the problem. and repair any resulting damage.

8.5.4 NORMAL PROCEDURES

8.5.4.3.5.1 Envelope Preparation When Using Raven-Aerostar Baskets

The envelope karabiners with the appropriate number of flying cables must be attached to the Quick Pins. Refer to figure 2.



▲ Figure 2 : Envelope Attachment

8.5.5 WEIGHT CALCULATIONS

No change.

8.5.6 BALLOON AND SYSTEMS DESCRIPTION

8.5.6.3.14 Raven-Aerostar Burners and Burner Frames

Refer to the applicable Raven-Aerostar Flight Manual.

8.5.6.5.6 Raven-Aerostar Baskets

Refer to the applicable Raven-Aerostar Flight Manual.

8.5.6.5.6.1 Raven-Aerostar Basket Model TWH

The model TWH basket is designed to carry up to 3 passengers with special needs in a dedicated compartment. Each position within the compartment has a 5 point harness attached to the basket structure.

8.5.7 BALLOON MAINTENANCE, HANDLING AND CARE

Refer to the applicable Raven-Aerostar Flight Manual.

8.5.9 EQUIPMENT LIST

Table 11 - Cameron Envelopes with Raven-Aerostar Burners Baskets

Envelope Type	Drawing Number	Applicable Burners	Applicable Baskets
A-105	CBI15	T	2
A-160	CB653	T	2,3
N-90	CB476	S,T	1,2
N-105	CB476	T	2
N-120	CB476	T	2
N-133	CB476	T	2,3
O-84	CB772	S,T	1,2
O-105	CBI67	T	2
V-65	CBI66	S,T	1,2
Z-90	CBI340	S,T	1,2
Z-105	CBI345	T	2
Z-120	CBI348	T	2
Z-133	CBI349	T	2,3
Z-150	CBI473	T	3

Table 12 - Eligible Aerostar Baskets

Basket Category	Basket Model	Basket Drawing
2	Model. CW	D-13860
2	Model CW-V	D-15325
2	Model CW-S	D-51620
1	Model RWS	D-52131
2	Model TW	D-51076
3	Model TWH	D-51077
3	Model TWX	100HC4

Table 13 - Eligible Aerostar Burners

Burner Category	Drawing Number	Burner Description
S	R-12323	Four Burner
T	D-13050	HP Dual
S	D-13180	Burner Assembly
T	D-14160	HP Dual
T	D-17400	HP II Convertible
T	D-17395	HP II Dual
T	D-52350	HP III Dual
T	D-17395	HP5D Double
T	D-52350-1	HP6D Double
T	D-52350-2	HP6E Double