

Amendment Number	Description	Pages Affected	Date	Approval
1	Record of Amendment, List of Effective pages, Contents and List of Supplements Updated. Page 2-2: Permitted Damage increased. Page 4-2: Cylinder Orientation guidance added. Page 5-6: "Total" boxes added to tables. Page 6-10; Caution regarding vapour regulators at low ambient temperature added. 45 was 60. Pages 7-1, 7-2 revised, 7-3 and 7-4 added. Supplement 8.1: Addition of Turtle-120 Special Shape, Colt Sugar Box 90, Buddy-90, Head One-105, Lightbulb-110, Bierkrug-90, Condom -105, Apple-90, RX-105, Tiger 90 and Cup-110. Supplement 8.6: Addition of Record of Amendments, T&C and Cameron burners and burner frame information. Supplement 8.8: Introduction of basket maximum payloads and minimum burner requirements in accordance with EASA.BA.016. Extension to include T&C envelopes. Supplement 8.9: Kubiček Bottom Ends with Cameron and T&C Envelopes. Supplement 8.12: Addition of Cameron H20, H24, H34, Colt 17A, 21A and Thunder AX6-56S1. Supplement 8.15: Addition of Basket List. Supplement 8.19: Demountable double, triple and quad burners. Supplement 8.21: Deletion of A1 category (moved to type specific supplements), Addition of Basket CB3394, CB3006, CB3027, CB3120, CB3448 and CB3449, added. Type 3 cylinders added to CB950 and CB3175. Supplement 8.22: Addition of Paragraph 22.6.3.10.1. Burner Assemblies CB2051, CB2065, CB2081, CB2089, CB2095, CB2096, CB2097, CB2130, CB2145, CB2298, CB2299 added. Supplement 8.32: Out of Production Hoppers. Supplement 8.33: Sky Bottom Ends with Cameron and Thunder & Colt Envelopes.	i-iii, i-vii, i-viii, i-ix, i-xiv, ixv, i-xvi, 2-2, 2-3, 4-2, 5-6, 6-10, 6-11, 7-1 to 7-4, Supplement 8.1: All, Supplement 8.6: All, Supplement 8.8: All, Supplement 8.9: New Supplement, Supplement 8.12: All, Supplement 8.15: All, Supplement 8.19: New Supplement, Supplement 8.21: All, Supplement 8.22: All, Supplement 8.32: New Supplement, Supplement 8.33: New Supplement,	17:12:2007	Approved by EASA under Approval Number EASA.BA.C.01128
2	Supplement 8.10: Chaize Baskets.	Supplement 8.10: New Supplement,	21:12:2007	Approved by EASA under Approval Number EASA.BA.A.01013
3	Page 9-6 Burner frame applicabilities corrected, key updated, Page 9-8: Assembly CB2424 added, Supplement 8.8: Cameron Burners Added; Supplement 8.9: Baskets K12/K12A/K15 added, Cameron Burners Added. Supplement 8.21: T&C Burner Frame applicabilities updated, key updated.	i-iii, i-vii, i-ix, 9-6, 9-8, Supplement 8.8: All, Supplement 8.9: All, Supplement 8.21: All	01:02:2008	Revision nr Amendment 3 to AFM ref. HABFM- Issue 10 is approved under the authority of DOA nr EASA.21J.140

Note: Any new or amended text in the revised page will be indicated by a black vertical line in the right hand margin, and the Amendment Number and the date will be shown at the bottom of the page.

Intentionally Blank Page

Section	Page	Date	Section	Page	Date
i	i-i	10 April 2006	4	4-15	10 April 2006
	i-ii	10 April 2006		(cont)	4-16
	i-iii	01 February 2008		4-17	10 April 2006
	i-iv	10 April 2006		4-18	10 April 2006
	i-v	10 April 2006		4-19	10 April 2006
	i-vi	10 April 2006		4-20	10 April 2006
	i-vii	01 February 2008		4-21	10 April 2006
	i-viii	01 February 2008		4-22	10 April 2006
	i-ix	01 February 2008		4-23	10 April 2006
	i-x	10 April 2006		4-24	10 April 2006
	i-xi	10 April 2006		4-25	10 April 2006
	i-xii	10 April 2006		4-26	10 April 2006
	i-xiii	10 April 2006		4-27	10 April 2006
	i-xiv	17 December 2007		4-28	10 April 2006
	i-xv	17 December 2007			
		i-xvi	17 December 2007	5	5-1
			5-2		10 April 2006
l	l-1	10 April 2006		5-3	10 April 2006
	l-2	10 April 2006		5-4	10 April 2006
	l-3	10 April 2006		5-5	10 April 2006
	l-4	10 April 2006		5-6	17 December 2007
2	2-1	10 April 2006	6	6-1	10 April 2006
	2-2	17 December 2007		6-2	10 April 2006
	2-3	17 December 2007		6-3	10 April 2006
	2-4	10 April 2006		6-4	10 April 2006
	2-5	10 April 2006		6-5	10 April 2006
	2-6	10 April 2006		6-6	10 April 2006
	2-7	10 April 2006		6-7	10 April 2006
	2-8	10 April 2006		6-8	10 April 2006
				6-9	10 April 2006
3	3-1	10 April 2006		6-10	17 December 2007
	3-2	10 April 2006		6-11	17 December 2007
	3-3	10 April 2006		6-12	10 April 2006
	3-4	10 April 2006		6-13	10 April 2006
	3-5	10 April 2006		6-14	10 April 2006
	3-6	10 April 2006			
4			7	7-1	17 December 2007
	4-1	10 April 2006		7-2	17 December 2007
	4-2	17 December 2007		7-3	17 December 2007
	4-3	10 April 2006		7-4	17 December 2007
	4-4	10 April 2006			
	4-5	10 April 2006	8	8-1	10 April 2006
	4-6	10 April 2006		8-2	10 April 2006
	4-7	10 April 2006			
	4-8	10 April 2006	9	9-1	10 April 2006
	4-9	10 April 2006		9-2	10 April 2006
	4-10	10 April 2006		9-3	10 April 2006
	4-11	10 April 2006		9-4	10 April 2006
	4-12	10 April 2006		9-5	10 April 2006
	4-13	10 April 2006		9-6	01 February 2008
4-14	10 April 2006	9-7		10 April 2006	

Section	Page	Date	Section	Page	Date
9	9-8	01 February 2008			
(cont)					
Appendices	A1-1 / A1-2	10 April 2006			
	A2-1 / A2-2	10 April 2006			
	A3-1 / A3-2	10 April 2006			
	A4-1 / A4-2	10 April 2006			

The supplements ticked 'Applicable' to this balloon are inserted into this manual in Section 8.

Number	Description	Issue	Approval Date	Applicable
8.1	Special Shapes	9	17 December 2007	
8.2	Balloons On German Register	-	-	-
8.3	Balloons On French Register	-	-	-
8.4	Balloon Works Bottom Ends with Cameron Envelopes	-	-	-
8.5	Raven Aerostar Bottom Ends with Cameron Envelopes	1	10 April 2006	
8.6	Lindstrand Bottom Ends with Cameron and T&C Envelopes	2	18 April 2007	
8.7	Ultramagic Bottom Ends with Cameron Envelopes	1	10 April 2006	
8.8	Schröder Fire Bottom Ends with Cameron and T&C Envelopes	3	01 February 2008	
8.9	Kubíček Bottom Ends with Cameron and T&C Envelopes	2	01 February 2008	
8.10	Chaize Baskets	1	21 December 2007	
8.11	Lindstrand Cloudhopper with Cameron Envelopes	1	10 April 2006	
8.12	Out of Production Envelope Types	3	15 October 2007	
8.13	Duo Airchair MKII	1	10 April 2006	
8.14	Cloudhopper Millennium	1	10 April 2006	
8.15	Wheelchair Baskets	2	17 April 2006	
8.16	Single Airchair	-	-	
8.17	Special Needs Passenger Seat	-	-	
8.18	Removable Partition Basket	1	10 April 2006	
8.19	Demountable double, triple and quad burners	1	30 November 2006	
8.20	Basket Towing Plates	1	10 April 2006	
8.21	Special Baskets	5	01 February 2008	
8.22	Out of Production Burner Models	2	18 April 2007	
8.23	Sirocco Burner - Remote Control Operating System	1	10 April 2006	
8.24	Shadow High Altitude Burner	1	10 April 2006	
8.25	Removable Burner	1	10 April 2006	
8.26	Shadow / Stealth Electric Burner	1	10 April 2006	
8.27	Launching Hang Gliders	1	10 April 2006	
8.28	Night Flying	1	10 April 2006	
8.29	Dropping Parachutists	1	10 April 2006	
8.30	Envelope Laser Display System	1	10 April 2006	
8.31	-	-	-	
8.32	Out of Production Hoppers	1	18 April 2007	
8.33	Sky Bottom Ends with Cameron and T&C Envelopes	1	10 April 2006	
	Canadian - Specific Addendum Type			

Number	Description	Issue	Approval Date	Applicable

Table 6 - Baskets

Basket Category	Drawing Number	Basket Description*	Applicable Cylinders	Applicable Burner Frames
A	CB8320	HOPPER	1, 2, 3	-
A	CB8310	SINGLE AIRCHAIR	4	SINGLE AIRCHAIR
B	CB8340	DUO AIRCHAIR	5	DUO AIRCHAIR
B	CB3116	VOYAGER II	1, 2	CB2235, CB2358, CB2533
B	CB3037	LITE	1	CB2356
B	CB310-1A	31 - 42 O	1a, 1, 2	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226, CB871
C	CB300-2A	56 - 65 O	1a, 1, 2	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226, CB871
C	CB310-2A	56 - 65 O	1a, 1, 2	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226, CB871
C	CB3050-2	56 - 65 O	1a, 1, 2	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226
C	CB3115-2	56 - 65 O	1a, 1, 2	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226
C	CB3011-2A	56 - 65 H O	1a, 1, 2, 3	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226, CB925
C	CB3023-2	56 - 65 H O	1a, 1, 2, 3	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226, CB925
C	CB3011-2B	56 - 65 H O	1a, 1, 2, 3	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226, CB925
C	CB3051	C 60 / 70 O	1a, 1, 2	CB2203, CB2598, CB2562, CB2224, CB2560, CB2231, CB2874, CB2226
D	CB300-3A	77 - 84 O	1a, 1, 2	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226, CB871
D	CB310-3A	77 - 84 O	1a, 1, 2	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226, CB871
D	CB3050-3	77 - 84 O	1a, 1, 2	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226
D	CB3115-3	77 - 84 O	1a, 1, 2	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226
D	CB3011-3A	77 - 84 H O	1a, 1, 2, 3	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226
D	CB3023-3	77 - 84 H O	1a, 1, 2, 3	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226
D	CB3011-3B	77 - 84 H O	1a, 1, 2, 3	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226
D	CB3052	C 80 / 90 O	1a, 1, 2	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226
D	CB8012	65 - 77 O	1a, 1, 2	CB8810, CB8811, CB8020, CB8021, CB8902, CB8903, CB8894, CB8821
D	CB8017	65 - 77 H O	1a, 1, 2, 3	CB8810, CB8811, CB8020, CB8021, CB8902, CB8903, CB8894, CB8821
D	CB8001	65 - 77 O	1a, 1, 2	CB8810, CB8811, CB8020, CB8021, CB8902, CB8903, CB8894, CB8821
D	CB8006	65 - 77 H O	1a, 1, 2, 3	CB8810, CB8811, CB8020, CB8021, CB8902, CB8903, CB8894, CB8821
D	CB8013	77 - 90 O	1a, 1, 2	CB8810, CB8811, CB8020, CB8021, CB8902, CB8903, CB8894, CB8821
D	CB8018	77 - 90 H O	1a, 1, 2, 3	CB8810, CB8811, CB8020, CB8021, CB8902, CB8903, CB8894, CB8821
D	CB8002	77 - 90 O	1a, 1, 2	CB8810, CB8811, CB8020, CB8021, CB8902, CB8903, CB8894, CB8821
D	CB8007	77 - 90 H O	1a, 1, 2, 3	CB8810, CB8811, CB8020, CB8021, CB8902, CB8903, CB8894, CB8821
E	CB300-4A	90 - 105 O	1a, 1, 2	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226, CB871
E	CB310-4A	90 - 105 O	1a, 1, 2	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226, CB871
E	CB3050-4	90 - 105 O	1a, 1, 2	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226
E	CB3115-4	90 - 105 O	1a, 1, 2	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226
E	CB3011-4A	90 - 105 H O	1a, 1, 2, 3	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226, CB925
E	CB3023-4	90 - 105 H O	1a, 1, 2, 3	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226, CB925
E	CB3011-4B	90 - 105 H O	1a, 1, 2, 3	CB2598, CB2224, CB2203, CB2231, CB2874, CB2226, CB925
E	CB8014	90 - 105 O	1a, 1, 2	CB8810, CB8811, CB8020, CB8021, CB8902, CB8903, CB8894, CB8821
E	CB8019	90 - 105 H O	1a, 1, 2, 3	CB8810, CB8811, CB8020, CB8021, CB8902, CB8903, CB8894, CB8821
E	CB8003	90 - 105 O	1a, 1, 2	CB8810, CB8811, CB8020, CB8021, CB8902, CB8903, CB8894, CB8821
E	CB8008	90 - 105 H O	1a, 1, 2, 3	CB8810, CB8811, CB8020, CB8021, CB8902, CB8903, CB8894, CB8821
F	CB3320	105 - 120 PW	1a, 1, 2	CB3321, CB3322
F	CB8015	105 - 120 O	1a, 1, 2	CB8822, CB8823, CB8824, CB8825, CB8830, CB8831
F	CB8020	105 - 120 H O	1a, 1, 2, 3	CB8822, CB8823, CB8824, CB8825, CB8830, CB8831
F	CB8004	105 - 120 O	1a, 1, 2	CB8822, CB8823, CB8824, CB8825, CB8830, CB8831
F	CB8009	105 - 120 H O	1a, 1, 2, 3	CB8822, CB8823, CB8824, CB8825, CB8830, CB8831
F	CB8200	105 - 120 T	1a, 1, 2, 3	CB8822, CB8823, CB8824, CB8825, CB8830, CB8831

* For key see page 9-6

Table 6 - Baskets (continued)

Basket Category	Drawing Number	Basket Description*	Applicable Cylinders	Applicable Burner Frames
G	CB303	120 - 133 O	1a, 1, 2, 3	CB2309, CB2312
G	CB3238	120 - 133 P	1a, 1, 2, 3	CB2470, CB2468
G	CB3233	120 - 133 T	1a, 1, 2, 3	CB2470, CB2468
H	CB991	140 T	1a, 1, 2, 3	CB2264, CB2263
H	CB3060	140 T W	1a, 1, 2, 3	CB2266, CB2265
H	CB3376	140 T	1a, 1, 2, 3	CB2264, CB2263
H	CB8266	120 - 160 T	1a, 1, 2, 3	CB8900, CB8901
I	CB3310	160 - 180 T	1a, 1, 2, 3	CB2590, CB2591
I	CB8206	180 - 210 T	1a, 1, 2, 3	CB8826, CB8832, CB8840
J	CB754	180 - 210 TT	1a, 1, 2, 3	CB2420, CB2411, CB2261
K	CB3164	210 TT Os	1a, 1, 2, 3	CB2250, CB2303
L	CB3314	210 - 250 T	1a, 1, 2, 3	CB2505, CB2592
L	CB3081	210 - 250 TT W	1a, 1, 2, 3	CB2260, CB2304
M	CB3004	250 TT	1a, 1, 2, 3	CB2250, CB2303
M	CB971	250 TT D	1a, 1, 2, 3	CB2260, CB2304
M	CB3387	250 TT	1a, 1, 2, 3	CB2613, CB2614
N	CB3200	275 TT Os	1a, 1, 2, 3	CB2427, CB2447
O	CB3042	300 TT	1a, 1, 2, 3	CB2270, CB2258
O	CB3040	300 TT D	1a, 1, 2, 3	CB2271, CB2259
O	CB3049	300 TT S	1a, 1, 2, 3	CB2272, CB2269
O	CB3235	300 TT	1a, 1, 2, 3	CB2390
O	CB3223	300 TT S	1a, 1, 2, 3	CB2427, CB2447
O	CB8250	350 TT	1a, 1, 2, 3	CB8842, CB8843
O	CB3360	350 TT	1a, 1, 2, 3	CB2418
P	CB3205	400 TT S	1a, 1, 2, 3	CB2418
Q	CB3288	400 - 410 TT S	1a, 1, 2, 3	CB2418
R	CB3370	600 TT S	1a, 1, 2, 3	CB2376

* **Key:** H= Hi-Spec; L=Asymmetric pilot compartment; O = Open; P= single partition; T = T partition; TT = double T partition; Os = offset; D = designed for use in Germany; S = Safari (tough terrain); W = wheelchair access; FI = Flexi-corner burner frame only.

Table 7 - Fuel Cylinders

Cylinder Category	Drawing Number	Cylinder Material	Cylinder Description
1a	CB901	ALUMINIUM	MINI WORTHINGTON
1	CB250	ALUMINIUM	WORTHINGTON
2	CB426	STAINLESS STEEL	60
2	CB497	STAINLESS STEEL	40
2	CB599	STAINLESS STEEL	40
3	CB959	STAINLESS STEEL	80
3	CB2088	STAINLESS STEEL	T60
2	CB2900	DUPLEX STAINLESS STEEL	45
2	CB2901	DUPLEX STAINLESS STEEL	60
3	CB2902	DUPLEX STAINLESS STEEL	54
3	CB2903	DUPLEX STAINLESS STEEL	72
2	V20-100-00	STAINLESS STEEL	T&C V20
2	V30-100-00	STAINLESS STEEL	T&C V30
3	V40-100-00	STAINLESS STEEL	T&C V40
2	CB2380S	TITANIUM	60
3	CB2383S	TITANIUM	80
2	CB2385S	TITANIUM	40
3	CB2387S	TITANIUM	T60
2	A0/V30	STAINLESS STEEL	SKY V30
3	A0/V40	STAINLESS STEEL	SKY V40
4	CB8414	STAINLESS STEEL	H30
5	CB8424	STAINLESS STEEL	H40

Table 8 - Burners

Shadow, Stealth and Stratus burners have their pilot light configuration denoted, with the following drawing numbers being appended with -1 for vapour, -2 for liquid or -3 for mixed vapour and liquid.

Table 8 - Burners (continued)

Burner Category	Drawing Number	Burner Description
A	CB2245	Single Shadow, Fixed Frame
A	CB2246	Single Shadow, Adjustable Height Frame
A	CB2512	Single Shadow, Fixed Frame Removable Burner
A	CB2233	Single Shadow Mini, Fixed Frame
A	CB2538	Single Shadow Mini, Removable Burner
A	CB8710	Single Stratus, Liquid Pilot Light
A	CB8712	Single Stratus, Vapour Pilot Light
B	CB2222	Double Shadow, Fixed Frame
B	CB2433	Double Shadow Solenoid Valve, Fixed Frame
B	CB2215	Double Shadow, Adjustable Height Frame
B	CB2243	Double Shadow / Stealth, Fixed Frame
B	CB2251	Double Shadow Solenoid Valve / Stealth Solenoid Valve, Fixed Frame
B	CB2244	Double Shadow / Stealth, Adjustable Height Frame
B	CB2694	Double Sirocco, Fixed Frame
B	CB2691	Double Sirocco E.P., Fixed Frame
B	CB2695	Double Sirocco, Adjustable Height Frame
B	CB8720	Double Stratus, Liquid Pilot Light
B	CB8721	Double Stratus, Vapour Pilot Light
C	CB2255	Triple Shadow
C	CB2424	Triple Shadow, Crossflow to Single Burner
C	CB2520	Triple Shadow, Squeeze Bar Action, with Crossflow
C	CB2301	Triple Stealth (double) / Shadow (single)
C	CB2289	Triple Shadow (double) / Stealth (single)
C	CB2446	Triple Shadow / Stealth (double) / Shadow (single)
C	CB2459	Triple Stealth (double) / Shadow (single), Squeeze bar Action
C	CB2467	Triple Shadow (double) / Stealth (single), Squeeze bar Action
C	CB2469	Triple Shadow / Stealth (double) / Shadow (single), Squeeze bar Action
C	CB2696	Triple Sirocco
C	CB2692	Triple Sirocco E.P.
C	CB8730	Triple Stratus, Liquid Pilot Light.
C	CB8731	Triple Stratus, Liquid Pilot Light, 'T' Baskets
C	CB8732	Triple Stratus, Liquid Pilot Light, 'TT' Baskets
C	CB8733	Triple Stratus, Vapour Pilot Light
C	CB8734	Triple Stratus, Vapour Pilot Light, 'T' Baskets
C	CB8735	Triple Stratus, Vapour Pilot Light, 'TT' Baskets
D	CB2256	Quad Shadow
D	CB2351	Quad Shadow, Dual Squeeze Bar
D	CB2305	Quad Shadow (double) / Stealth (double)
D	CB2342	Quad Shadow (double) / Stealth (double), Dual Squeeze Bar
D	CB2395	Quad Shadow / Stealth (double) / Shadow / Stealth (double)
D	CB2697	Quad Sirocco
D	CB2693	Quad Sirocco E.P.
D	CB8740	Quad Stratus, Liquid Pilot Light
D	CB8741	Quad Stratus, Liquid Pilot Light, Crossflow
D	CB8742	Quad Stratus, Vapour Pilot Light
D	CB8743	Quad Stratus, Vapour Pilot Light, Crossflow