

Type Certificate Data Sheet

Number: B-2
 Issue No.: 14
 Approval Date: March 15, 1976
 Issue Date: February 5, 2002

This Data Sheet which is part of Type Certificate No. B-2 prescribes the conditions and limitations under which the product(s) for which the Type Certificate was granted meet(s) the standards of airworthiness required by the Canadian Aviation Regulations.

Type Certificate Holder:

Cameron Balloons Ltd.
 St. Johns Street
 Bedminster, Bristol, England
 BS3 4NH

Models

O-31	O-42	O-56	O-65	O-77	O-84	O-90
O-105	O-120	O-160	A-105	A-120	A-140	A-160
A-180	A-210	A-250	A-300	A-375	N-31	N-56
N-65	N-77	N-90	N-105	V-31	V-56	V-65
V-77	V-90	C-60	C-80	A-400		

Reference Tables 1, 2 and 3 for the following information:

Type, Envelope, Volume, Max. Weight, Burners, Gondolas and Serial Nos. Eligible

Type	Envelope	Volume		Max Weight (See NOTE 1)		Burner (Table 3)	Gondola (Table 2)	Serial Nos. Eligible
		cu. ft.	cu. m.	Kg.	lb.			
O-31	CB110	31,450	890	286	630	1, 3, 20	1, 2, 3, 18, 19	56 & Subs.
O-42	CB101	42,000	1190	382	840	1, 3, 20	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21	26 & Subs.
O-56	CB45	56,000	1590	508	1120	1, 3, 20, 21, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21	19 & Subs.
O-65	CB54	65,000	1840	590	1300	1, 3, 20, 21, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21	18 & Subs.
O-77	CB112	77,500	2190	698	1540	1, 3, 20, 21, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21	64 & Subs.
O-84	CB49	84,000	2380	762	1680	1, 3, 20, 21, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21	22 & Subs.
O-90	CB658	90,000	2549	816	1800	3, 20, 21, 24, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21	1824 & Subs.
O-105	CB167	105,000	2970	952	2100	3, 21, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21	494 & Subs.
O-120	CB505	120,000	3400	1089	2400	3, 21, 24, 25	1, 2, 3, 4, 5, 6, 7, 16, 17, 18, 19, 20, 21	1414 & Subs.
O-160	CB368	160,000	4530	1452	3200	3, 21, 24, 25	1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 13, 18, 19, 20, 21	915 & Subs.
A-105	CB115	105,000	2970	952	2100	3, 21, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21	71 & Subs.
A-120	CB617	120,000	3400	1089	2400	3, 21, 23, 24, 25, 26	2, 3, 4, 5, 6, 7, 12, 14, 15, 16, 17, 19, 20, 21, 22, 25, 27, 28	1701 & Subs.
A-140	CB105	140,000	3970	1270	2800	2, 3, 4, 5, 21, 25	2, 3, 4, 5, 6, 7, 8, 10, 11, 19, 20, 21, 34, 35	45 & Subs.
A-160	CB653	160,000	4530	1451	3200	19, 21, 23, 24, 25, 26, 28	6, 7, 12, 13, 14, 15, 16, 17, 21, 22, 23, 24, 25, 27, 28	1803 & Subs.
A-180	CB692	180,000	5100	1633	3600	3, 19, 21, 25, 28	1, 2, 3, 4, 5, 6, 7, 10, 11, 18, 19, 20, 21	2013 & Subs.
A-210	CB199	210,000	5946	1905	4200	3, 19, 21, 24, 25, 28	2, 3, 4, 5, 6, 7, 8, 10, 11, 19, 20, 21	966 & Subs.
A-250	CB463	250,000	7080	2268	5000	19, 22, 28, 27	12, 13, 14, 15, 22, 23, 24, 26, 29, 33	1216 & Subs.
A-300	CB603	300,000	8500	2330	5137	19, 22, 28, 27	12, 13, 14, 15, 22, 23, 24, 25, 29, 33	1619 & Subs.

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Type	Envelope	Volume		Max Weight (See NOTE 1)		Burner (Table 3)	Gondola (Table 2)	Serial Nos. Eligible
		cu. ft.	cu. m.	Kg.	lb.			
A-375	CB761	375,000	10620	2410	5313	22, 27	12, 13, 14, 15, 22, 23, 24, 25, 29, 33	2132 & Subs.
A-400	CB1248	400,000	11,328	3628	8000	22, 27, 29	33, 36	4211 & Subs.
N-31	CB476	31,000	890	286	630	1, 3, 20	1, 2, 3, 18, 19	382 & Subs.
N-56	CB143-2	56,000	1590	508	1120	1, 3, 20, 21, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21	276 & Subs.
N-65	CB476	65,000	1840	590	1300	3, 8, 20, 21, 24, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21	515 & Subs.
N-77	CB143-1	77,500	2190	698.4	1540	1, 2, 3, 4, 5, 7, 15, 20, 21, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21, 34	252 & Subs.
N-90	CB476	90,000	2549	816	1800	3, 20, 21, 24, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21	917 & Subs.
N-105	CB476	105,000	2970	952	2100	3, 21, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21	505 & Subs.
V-31	CB113	31,450	890	281	620	1, 3, 20	1, 2, 3, 18, 19	365 & Subs.
V-56	CB134	56,000	1590	508	1120	1, 3, 20, 21, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21	193 & Subs.
V-65	CB166	65,000	1840	590	1300	1, 3, 20, 21, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21	488 & Subs.
V-77	CB170	77,000	2190	698	1540	1, 3, 20, 21, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21	366 & Subs.
V-90	CB817	90,000	2550	816	1800	3, 20, 21, 24, 25, 26	1, 2, 3, 4, 5, 6, 7, 16, 17, 18, 19, 20, 21, 27, 28	2401 & Subs.
C-60	CB996	60,000	1700	554	1200	2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21, 30, 31, 32	2734 & Subs.
C-80	CB1025	80,000	2266	726	1600	2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 25	1, 2, 3, 4, 5, 6, 7, 18, 19, 20, 21, 30, 31, 32	3002 & Subs.

Type Certificate Data Sheet

Table 2 - Gondolas

No.	Drawing	Size	
		c.m.	in.
1.	CB300-1	76.2 X 68.6	30 X 27
2.	CB300-2	97 X 114	38 X 45
3.	CB300-2A	97 X 114	38 X 45
4.	CB300-3	97 X 137	38 X 54
5.	CB300-3A	97 X 137	38 X 54
6.	CB300-4	107 X 147	42 X 58
7.	CB300-4A	107 X 147	42 X 58
8.	CB300-5	129.5 X 208.3	51 X 82
9.	CB300-5A	129.5 X 208.3	51 X 82
10.	CB302/1	155 X 215	61 X 84
11.	CB302/2	155 X 251	61 X 98
12.	CB302-1	147.3 X 218.4	58 X 86
13.	CB302-2	147.3 X 254	58 X 100
14.	CB302-3	155 X 215	61 X 85
15.	CB302-4	144 X 190	57 X 75
16.	CB303	107 X 175	42 X 69
17.	CB308	107 X 175	42 X 69
18.	CB310-1A	97 X 97	38 X 38
19.	CB310-2A	97 X 114	38 X 45
20.	CB310-3A	97 X 137	38 X 54
21.	CB310-4A	107 X 147	42 X 58
22.	CB754	155 X 251	61 X 99
23.	CB802	149 X 251	59 X 99
24.	CB860	155 X 264	61 X 104
25.	CB862	170 X 240	67 X 94
26.	CB864	170 X 240	67 X 94
27.	CB950	120 X 180	47 X 71
28.	CB967	107 X 175	42 X 69
29.	CB971	170 X 290	67 X 114
30.	CB994	86 X 104	34 X 41
31.	CB3051	86 X 104	34 X 41
32.	CB3033	95 X 132	37 x 52
33.	CB3042	149 X 360	59 x 142
34.	CB3054	140 X 107	55 X 42
35.	CB3060	140 X 215	55 X 85
36.	CB3205	150 X 410	59 X 161

Table 3 - Burners

No.	Drawing	Type
1.	CB200	Single
2.	CB2008	Double
3.	CB205	Double
4.	CB2075	Double
5.	CB2101	Double
6.	CB2107	Single
7.	CB2130	Single
8.	CB2130-2	Single
9.	CB2215	Double
10.	CB2222	Double
11.	CB2239	Double
12.	CB2240	Double
13.	CB2243	Double
14.	CB2244	Double
15.	CB2245	Single
16.	CB2246	Single
17.	CB2296	Single
18.	CB2297	Single
19.	CB378	Triple
20.	CB391	Single
21.	CB392	Double
22.	CB452	Quadruple
23.	CB460	Double
24.	CB494	Double
25.	CB579	Double
26.	CB595	Double
27.	CB616	Quadruple
28.	CB663	Triple
29.	CB2395	Quadruple

Type Certificate Data Sheet

Maximum Occupants (See NOTE 4)

Gondola	"O" Series Models									
	O-31	O-42	O-56	O-65	O-77	O-84	O-90	O-105	O-120	O-160
CB300-1	1	1	1	1	1	1	1	1	1	1
CB300-2 or 2A	1	2	3	3	3	3	3	3	3	3
CB300-3 or 3A	*	2	3	3	4	4	4	4	4	4
CB300-4 or 4A	*	2	3	3	4	4	5	6	5	6
CB300-5 or 5A	*	*	*	*	*	*	*	*	*	9
CB302-1	*	*	*	*	*	*	*	*	*	9
CB302-2	*	*	*	*	*	*	*	*	*	9
CB303	*	*	*	*	*	*	*	*	7	*
CB308	*	*	*	*	*	*	*	*	7	*
CB310-1A	2	2	2	2	2	2	2	2	2	2
CB310-2A	3	3	3	3	3	3	3	3	3	3
CB310-3A	*	4	4	4	4	4	4	4	4	4
CB310-4A	*	5	5	5	5	5	5	5	5	5

Gondola	"A" Series Models									
	A-105	A-120	A-140	A-160	A-180	A-210	A-250	A-300	A-375	A-400
CB300-1	1	*	*	*	1	*	*	*	*	*
CB300-2 or 2A	3	3	3	*	3	3	*	*	*	*
CB300-3 or 3A	4	4	4	*	4	4	*	*	*	*
CB300-4 or 4A	6	5	6	5	5	6	*	*	*	*
CB300-5	*	*	8	*	*	9	*	*	*	*
CB302/1	*	*	8	*	9	10	*	*	*	*
CB302/2	*	*	8	*	10	12	*	*	*	*
CB302-1	*	7	*	9	*	*	9	9	9	*
CB302-2	*	*	*	9	*	*	13	13	13	*
CB302-3	*	7	*	9	*	*	9	9	9	*
CB302-4	*	7	*	9	*	*	9	9	9	*
CB303	*	7	*	7	*	*	*	*	*	*
CB308	*	7	*	7	*	*	*	*	*	*
CB310-1A	2	*	*	*	2	*	*	*	*	*
CB310-2A	3	3	3	*	3	3	*	*	*	*
CB310-3A	4	4	4	*	4	4	*	*	*	*
CB3054	*	*	5	*	*	*	*	*	*	*
CB3060	*	*	8	*	*	*	*	*	*	*
CB3042	*	*	*	*	*	*	18	18	18	18
CB3205	*	*	*	*	*	*	*	*	*	22

(* Gondola/Model Combination not approved)

Type Certificate Data Sheet

Maximum Occupants (Cont'd) (See NOTE 4)

Gondola	"A" Series Models (Cont'd)									
	A-105	A-120	A-140	A-160	A-180	A-210	A-250	A-300	A-375	A-400
CB310-4A	5	5	5	5	5	5	*	*	*	*
CB754	*	7	*	9	*	*	13	13	13	*
CB802	*	*	*	9	*	*	13	13	13	*
CB860	*	*	*	9	*	*	13	13	13	*
CB862	*	7	*	9	*	*	*	9	9	*
CB864	*	*	*	*	*	*	9	*	*	*
CB950	*	7	*	7	*	*	*	*	*	*
CB967	*	7	*	7	*	*	*	*	*	*
CB971	*	*	*	*	*	*	15	17	17	*

Gondola	"N" Series Models					
	N-31	N-56	N-65	N-77	N-90	N-105
CB300-1	1	1	1	1	1	1
CB300-2 or 2A	1	3	3	3	3	3
CB300-3 or 3A	*	3	3	4	4	4
CB300-4 or 4A	*	3	3	4	5	6
CB310-1A	2	2	2	2	2	2
CB310-2A	3	3	3	3	3	3
CB310-3A	*	4	4	4	4	4
CB310-4A	*	5	5	5	5	5

Gondola	"V" Series Models				
	V-31	V-56	V-65	V-77	V-90
CB300-1	1	1	1	1	1
CB300-2 or 2A	1	3	3	3	3
CB300-3 or 3A	*	3	3	4	4
CB300-4 or 4A	*	3	3	4	5
CB303	*	*	*	*	5
CB308	*	*	*	*	5
CB310-1A	2	2	2	2	2
CB310-2A	3	3	3	3	3
CB310-3A	*	4	4	4	4
CB310-4A	*	5	5	5	5
CB950	*	*	*	*	5
CB967	*	*	*	*	5

Gondola	"C" Series Models	
	C-60	C-80
CB300-1	1	1
CB300-2 or 2A	3	4
CB300-3 or 3A	3	4
CB300-4 or 4A	3	4
CB310-1A	2	2
CB310-2A	3	4
CB310-3A	3	4
CB310-4A	3	4
CB994	3	3
CB3051	3	3
CB3033	3	4

* Gondola/Model Combination not approved

Type Certificate Data Sheet

Required Equipment

The basic required equipment as specified in the applicable Airworthiness Regulations must be installed in the balloon. In addition the following equipment must be installed:

- 1) Balloon Flight Manual as listed in Approved Publications.
- 2) Fire extinguisher.
- 3) Cameron Balloons Loading Chart.
- 4) Lighter - sparker, matches or equivalent.

Approved Publications

(See NOTE 5)

TYPE	CAA Approved Flight/Maintenance Manual	Dated (or latest approved revision)	Issue
O-31	Cameron Balloon Flight & Maintenance Manual	1988	6
O-42	Cameron Balloon Flight & Maintenance Manual	1988	6
O-56	Cameron Balloon Flight & Maintenance Manual	1988	6
O-65	Cameron Balloon Flight & Maintenance Manual	1988	6
O-77	Cameron Balloon Flight & Maintenance Manual	1988	6
O-84	Cameron Balloon Flight & Maintenance Manual	1988	6
O-90	O-90 Canadian Flight Manual	19 October 1990	1
O-105	Cameron Balloon Flight & Maintenance Manual	1988	6
O-120	O-120 Canadian Flight Manual	1 August 1990	1
O-160	O-160 Canadian Flight Manual	17 November 1986	1
A-105	Cameron Balloon Flight & Maintenance Manual	1988	6
A-120	A-120 Canadian Flight Manual	18 March 1992	1
A-140	Cameron Balloon Flight & Maintenance Manual	1988	6
A-160	A-160 Canadian Flight Manual	18 March 1992	1
A-180	A-180 Canadian Flight Manual	19 October 1990	1
A-210	A-210 Canadian Flight Manual - Amendment 1 - Amendment 2	26 September 1985 16 June 1987 12 October 1988	1
A-250	A-250 Canadian Flight Manual	18 March 1992	1
A-300	A-300 Canadian Flight Manual	18 March 1992	1
A-375	A-375 Canadian Flight Manual	18 March 1992	1
A-400	Cameron Balloons Hot Air Balloon Flight Manual and Addendum to Flight Manual Issue 8 for A-400 (Canada only) Issue C	20 October 1999	8

Type Certificate Data Sheet

TYPE	CAA Approved Flight/Maintenance Manual	Dated (or latest approved revision)	Issue
N-31	Cameron Balloon Flight & Maintenance Manual	1988	6
N-56	Cameron Balloon Flight & Maintenance Manual	1988	6
N-65	N-65 Canadian Flight Manual	11 August 1990	1
N-77	Cameron Balloon Flight & Maintenance Manual	1988	6
N-90	N-90 Canadian Flight Manual & Amendment 1	14 January 1988 28 September 1988	1
N-105	Cameron Balloon Flight & Maintenance Manual	1988	6
V-31	Cameron Balloon Flight & Maintenance Manual	1988	6
V-56	Cameron Balloon Flight & Maintenance Manual	1988	6
V-65	Cameron Balloon Flight & Maintenance Manual	1988	6
V-77	Cameron Balloon Flight & Maintenance Manual	1988	6
V-90	V-90 Canadian Flight Manual	16 March 1993	1
C-60	C-60 Canadian Flight Manual	28 March 1996	1
C-80	C-80 Canadian Flight Manual	28 March 1996	1

Type Certificate Data Sheet

NOTE 1 Refer to loading chart for type.

NOTE 2 CB 250 Empty weight 12 kg (26.5 lbs.) nominal each
Full weight 32 kg (70.6 lbs.) nominal each

CB 426 Empty weight 19 kg (42 lbs.) nominal each
Full weight 46.5 kg (102.5 lbs.) nominal each

Additional Master or Standard cylinders may be carried as specified above. Master cylinders are designated CB250 Master and CB426 Master and similarly Standard cylinders are designated CB250 Standard and CB426 Standard. The CB426 cylinder may be used only with Gondolas Serial Number CN1466 and subsequent.

CB 599 Empty weight 13 kg (28.7 lbs.) nominal each
Full weight 34.6 kg (76.3 lbs.) nominal each

NOTE 3 Reserved

NOTE 4 Assuming weight limits are not exceeded where maximum number of occupants are carried.

NOTE 5 Where Cameron Flight and Maintenance Manual Issue 6 dated 1988 is applicable, Issue 5 dated January 1980 may be used when CB200 and CB205 burners are installed.

- END -

Martin J. Eley
Director, Aircraft Certification
for Minister of Transport

Type Certificate Data Sheet

Number: B-3
 Issue No.: 5
 Approval Date: Refer Below
 Issue Date: September 21, 1999

This Data Sheet which is part of Type Certificate No. B-3 Issue 5 prescribes the conditions and limitations under which the product(s) for which the Type Certificate was granted meet(s) the standards of airworthiness required by the Canadian Aviation Regulations.

Type Certificate Holder:

Cameron Balloons Ltd.
 St. Johns St.
 Bedminster
 Bristol, England
 BS3 4NH

Models

Series 1	Series 2	Series 3	Series 4	Series 5
AX5-42	AX8-90	AX6-56A	AX4-31Z	AX5-42 Bolt
AX8-105	AX10-160	AX7-77A	AX6-56Z	AX6-56 Bolt
AX6-56	AX8-105		AX7-65Z	AX7-65 Bolt
AX9-120	AX9-140		AX7-77Z	AX7-77 Bolt
AX7-65	AX10-180			
AX10-160	AX10-210			
AX10-180	AX11-225			
	AX11-250			

1.	<u>MODEL AX5-42 Series 1</u>	<u>(Balloon)</u>	<u>Approved 15 November 1983</u>
2.	<u>MODEL AX6-56 Series 1</u>	<u>(Balloon)</u>	<u>Approved December 4, 1978</u>
3.	<u>MODEL AX7-65 Series 1</u>	<u>(Balloon)</u>	<u>Approved December 4, 1978</u>
4.	<u>MODEL AX7-77 Series 1</u>	<u>(Balloon)</u>	<u>Approved December 4, 1978</u>
5.	<u>MODEL AX8-90 Series 2</u>	<u>(Balloon)</u>	<u>Approved November 15, 1983</u>
6.	<u>MODEL AX8-105 Series 2</u>	<u>(Balloon)</u>	<u>Approved December 4, 1978</u>
7.	<u>MODEL AX9-140 Series 2</u>	<u>(Balloon)</u>	<u>Approved August 24, 1995</u>
8.	<u>MODEL AX10-210 Series 2</u>	<u>(Balloon)</u>	<u>Approved August 14, 1997</u>
9.	<u>MODEL AX6-56A Series 3</u>	<u>(Balloon)</u>	<u>Approved December 4, 1978</u>
10.	<u>MODEL AX7-77A Series 3</u>	<u>(Balloon)</u>	<u>Approved December 4, 1978</u>
11.	<u>MODEL AX4-31Z Series 4</u>	<u>(Balloon)</u>	<u>Approved April 13, 1981</u>
12.	<u>MODEL AX6-56Z Series 4</u>	<u>(Balloon)</u>	<u>Approved April 13, 1981</u>
13.	<u>MODEL AX7-65Z Series 4</u>	<u>(Balloon)</u>	<u>Approved April 13, 1981</u>
14.	<u>MODEL AX7-77Z Series 4</u>	<u>(Balloon)</u>	<u>Approved April 13, 1981</u>
15.	<u>MODEL AX5-42 Bolt Series 5</u>	<u>(Balloon)</u>	<u>Approved April 13, 1981</u>
16.	<u>MODEL AX6-56 Bolt Series 5</u>	<u>(Balloon)</u>	<u>Approved April 13, 1981</u>
17.	<u>MODEL AX7-65 Bolt Series 5</u>	<u>(Balloon)</u>	<u>Approved April 13, 1981</u>
18.	<u>MODEL AX7-77 Bolt Series 5</u>	<u>(Balloon)</u>	<u>Approved April 13, 1981</u>
19.	<u>MODEL AX8-105 Series 1</u>	<u>(Balloon)</u>	<u>Approved October 28, 1998</u>
20.	<u>MODEL AX9-120 Series 1</u>	<u>(Balloon)</u>	<u>Approved March 4, 1999</u>
21.	<u>MODEL AX10-160 Series 1</u>	<u>(Balloon)</u>	<u>Approved October 28, 1998</u>
22.	<u>MODEL AX10-180 Series 1</u>	<u>(Balloon)</u>	<u>Approved October 28, 1998</u>
23.	<u>MODEL AX10-160 Series 2</u>	<u>(Balloon)</u>	<u>Approved October 28, 1998</u>
24.	<u>MODEL AX10-180 Series 2</u>	<u>(Balloon)</u>	<u>Approved October 28, 1998</u>
25.	<u>MODEL AX11-225 Series 2</u>	<u>(Balloon)</u>	<u>Approved October 28, 1998</u>
26.	<u>MODEL AX11-250 Series 2</u>	<u>(Balloon)</u>	<u>Approved October 28, 1998</u>

Type Certificate Data Sheet

Table 1 - Balloon Types

Type	Drawing Nos.			Volume		Max Weight		Burner (Table 3)	Basket (Table 2)	Serial Nos. Eligible
	'CB' No.	'OLD' No.	'NS' No.	1000 cu. ft.	cu. m.	Kg.	lb.			
Series 1										
AX5-42	CB1134	31:1:1-4	NS/S1/42/12/H/100	42	1189	420	926	1 - 15	6, 1, 7, 2, 19	086 & Subs.
AX6-56	CB1135	31:1:1-4	NS/S1/56/12/H/100	56	1586	560	1235	1 - 15	6, 1, 7, 2, 8, 3, 19	007 & Subs.
AX7-65	CB1136	31:1:1-4	NS/S1/65/12/H/100	65	1841	650	1433	1 - 15	6, 1, 7, 2, 8, 3, 19	020 & Subs.
AX7-77	CB1080	31:1:1-4	NS/S1/77/12/H/100	77	2181	770	1698	1 - 15	6, 1, 7, 2, 8, 3, 19	003 & Subs.
AX8-105	CB1107	-----	NS/S1/105/12/H/100	105	2974	1050	2315	6 - 22	3, 4, 5, 8, 9, 10	722 & Subs.
AX9-120	CB1137	-----	NS/S1/120/12/H/100	120	3398	1200	2646	6 - 22	3, 4, 5, 8, 9, 10	2022 & Subs.
AX10-160	CB1138	-----	NS/S1/160/12/H/100	160	4531	1450	3197	6 - 27	3, 4, 8, 10, 12, 13	554 & Subs.
AX10-180	CB1139	-----	NS/S1/180/12/H/100	180	5098	1450	3197	6 - 27	3, 4, 5, 8, 9, 10, 12, 13	625 & Subs.
Series 2										
AX8-90	CB1082	31:2:1-4	NS/S2/90/20/H/100	90	2549	900	1985	1 - 22	6, 1, 7, 2, 8, 3, 9, 4, 10, 5, 11, 19, 20	092 & Subs.
AX8-105	CB1089	31:2:1-4	NS/S2/105/20/H/100	105	2974	1050	2315	6 - 22	8, 3, 9, 4, 10, 5, 11, 19, 20	014 & Subs.
AX9-140	CB1079	-----	NS/S2/140/20/H/100	140	3964	1400	3087	6 - 27	10, 5, 11, 12, 13	166 & Subs.
AX10-160	CB1140	-----	NS/S2/160/20/H/100	160	4531	1450	3197	6 - 27	3, 4, 8, 10, 12, 13	1921 & Subs.
AX10-180	CB1141	-----	NS/S2/180/20/H/100	180	5098	1630	3594	6 - 27	3, 4, 5, 8, 9, 10, 12, 13	1952 & Subs.
AX10-210	CB1142	-----	NS/S2/210/20/H/100	210	5947	1900	4190	6 - 27	8, 3, 9, 4, 10, 5, 11, 12, 13, 16, 14, 15, 17, 18, 21	2679 & Subs.
AX11-225	CB1200	-----	NS/S2/225/20/H/100	225	6372	2041	4500	16 - 27	12 - 18	4015 & Subs.
AX11-250	CB1194	-----	NS/S2/250/20/H/100	250	7080	2268	5001	16 - 27	14 - 18	4052 & Subs.
Series 3										
AX6-56A	-----	31:3:1-7	-----	56	1586	560	1235	1 - 15	6, 1, 7, 2, 8, 3, 19	---
AX7-77A	-----	31:3:1-7	-----	77	2181	770	1698	1 - 15	6, 1, 7, 2, 8, 3, 19	ALL
Series 4										
AX4-31Z	-----	31:4:1/2	-----	31	878	310	684	1 - 5	6, 1, 7, 2, 8, 3, 19	
AX6-56Z	-----	31:4:1/2	-----	56	1586	560	1235	1 - 15	6, 1, 7, 2, 8, 3, 19	135 & Subs.
AX7-65Z	-----	31:4:1/2	-----	65	1841	650	1433	1 - 15	6, 1, 7, 2, 8, 3, 19	183 & Subs.
AX7-77Z	-----	31:4:1/2	-----	77	2181	770	1698	1 - 15	6, 1, 7, 2, 8, 3, 19	ALL
Series 5										
AX5-42 BOLT	-----	31:5:1/2	-----	42	1200	420	926	1 - 15	6, 1, 7, 2, 8, 3, 19	
AX6-56 BOLT	-----	31:5:1/2	-----	56	1586	560	1235	1 - 15	6, 1, 7, 2, 8, 3, 19	ALL
AX7-65 BOLT	-----	31:5:1/2	-----	65	1841	650	1433	1 - 15	6, 1, 7, 2, 8, 3, 19	----
AX7-77 BOLT	-----	31:5:1/2	-----	77	2181	770	1698	1 - 15	6, 1, 7, 2, 8, 3, 19	ALL

Type Certificate Data Sheet

Table 2 Baskets

Number	Drawing No.		Nominal Size	
	'CB' No.	'OLD' No.	cm	inches
1	CB8000	850906-5	102x102	40x40
2	CB8001	850911-1	102x122	40x48
3	CB8002	850814-1	102x137	40x54
4	CB8003	850913-3	102x152	40x60
5	CB8004	850916-3	122x173	48x68
6	CB8010	850906-3	102x102	40x40
7	CB8012	850911-3	102x122	40x48
8	CB8013	850815-3	102x137	40x54
9	CB8014	850913-1	102x152	40x60
10	CB8015	850917-1	122x173	48x68
11	CB8200	BA500	122x173	48x68
12	CB8202	850904-3	152x221	60x87
13	CB8203	850514-3	152x221	60x87
14	CB8204	850306-1	152x259	60x102
15	CB8205	850510-3	152x259	60x102
16	CB8206	BA800	152x249	60x98
17	CB8207	BA900	152x300	60x118
18	CB8208	BA-8PT-3	152x320	60x126
19	-	31:27:1-4 & 8	SERIES 40	-
20	-	31:27:8/9	SERIES 40 Plus	-
21	CB8229	-	165x312	65x123

Type Certificate Data Sheet

Table 3 - Burners

Number	Burner Type	Drawing No.	
		Current	'OLD'
1	Thunder Mk1	31:47:1	-
2	Thunder Mk2	31:47:8	-
3	Liquid Fire Supplementary Burner	31:47:17	-
4	Colt Mk 2 Single	B2-50	-
5	T & C Stratus Single	CB8710 & SERIES	-
6	Thunder Mk1 Double	31:47:2	-
7	Thunder Mk2 Double	31:47:10	-
8	Liquid Fire Supplementary Burner	31:47:17	-
9	Colt Mk2 Double	B2-100	791024-3
10	Colt Mk2 Double with Quiet Burner	B2-200	-
11	Colt Mk3 Double	B3-100	871105-1
12	Colt Mk 3 Double with Quiet Burner	B3-200	-
13	Colt Magnum Superseal Double	B3T-100	-
14	Colt Magnum Superseal Double with Quiet Burner	B3T-200	-
15	T & C Stratus Double	CB8720 & SERIES	-
16	Colt Mk2 Triple	B2-300	830726-5
17	Colt Mk2 Triple with Quiet Burner	B2-400	-
18	Colt Mk3 Triple	B3-300	-
19	Colt Mk3 Triple with Quiet Burner	B3-400	-
20	Colt Magnum Superseal Triple	B3T-300	-
21	Colt Magnum Superseal Triple with Quiet Burner	B3T-400	-
22	T & C Stratus Triple	CB8730 & SERIES	-
23	Colt Mk2 Quad.	B2-500	811022-1
24	Colt Mk2 Quad. with Quiet Burner	850327-1	-
25	Colt Mk3 Quad.	B3-500	-
26	Colt Magnum Superseal Quad.	B3T-500	-
27	T & C Stratus Quad.	CB8740 & SERIES	-

Type Certificate Data Sheet

Table 4 - Cylinders

Number	Approved Type	Nominal Full Weight		Drawing No.	Nominal Capacity
		Kg	lb		(Useable Volume, Litres)
1	Worthington	34	75	CB250	38
2	Colt V30	46	101	V30-100	54
3	'60'	46	102	CB426	54
4	'Big 40'	35	76	CB599	43
5	'80'	60	132	CB959	73
6	'Tall 60'	48	106	CB2088	56

DATA PERTINENT TO ALL MODELS EXCEPT WHERE INDICATED

Maximum Weight	The maximum weight is the lesser of the figure given in Table 1 and the weight calculated in accordance with the Flight Manual.
Minimum Crew	One Pilot
Maximum Occupants	Limited by the maximum weight (see Table 1 and Flight Manual)
Fuel Type	Commercial LPG or Propane (non-caustic)
Fuel Capacity	Minimum of two standard cylinders (Items 1-6 in Table 4) Maximum number limited by the dimensions of the basket used, number of occupants and the maximum weight (see Table 1 and appropriate flight manual)
Maximum Envelope Temperature	120°C (248°F)
Basis of Certification	a) FAR 31, Amendments 31.1 to 31.2 (to 31.7 for Stratus burners and model AX10-210 Series 2) b) FAR 31.47 has been demonstrated by equivalent safety.
Import Requirements	The import documentation must include: a) A Certificate of Airworthiness for Export signed by a representative of the U.K. Airworthiness Authority (CAA) or

Type Certificate Data Sheet

Import Requirements (Cont'd) b) A Certificate of Airworthiness for Export signed by the Airworthiness Authority of a country with whom Canada has a Bilateral Airworthiness agreement.

In case a) or b), the C of A must contain the following statement:

“The aircraft identified by this Certificate has been examined and found to conform to the Canadian Department of Transport Type Certificate B-3”

or

c) Other procedures approved by the Minister of Transport.

Required Equipment The basic required equipment as specified in the applicable Airworthiness Regulations and in the applicable Flight Manual must be installed in the balloon (see “Basis of Certification”). In addition, the following equipment must be installed

1) CAA approved Canadian type specific flight manuals as listed in “Approved Publications”.

Approved Publications CAA approved Thunder & Colt Balloon type specific flight manuals:

TYPE	CAA Approved Flight Manual (for Canadian Registered Balloons)	Dated (or latest approved version)	Issue
SERIES I			
AX5-42	Approved Flight Manual Thunder Series 1 AX5-42	42 S1-CAN-8/99	1
AX6-56	Approved Flight Manual Thunder Series 1 AX6-56	56 S1-CAN-8/99	1
AX7-65	Approved Flight Manual Thunder Series 1 AX7-65	65 S1-CAN-8/99	1
AX7-77	Approved Flight Manual Thunder Series 1 AX7-77	77 S1-CAN-8/99	1
AX8-105	Approved Flight Manual Thunder Series 1 AX8-105	105 S1-CAN-8/99	1
AX9-120	Approved Flight Manual Thunder Series 1 AX9-120	120 S1-CAN-8/99	1
AX10-160	Approved Flight Manual Thunder Series 1 AX10-160	160 S1-CAN-8/99	1
AX10-180	Approved Flight Manual Thunder Series 1 AX10-180	180 S1-CAN-8/99	1
SERIES II			
AX8-90	Approved Flight Manual Thunder Series 2 AX8-90	90 S2-CAN-8/99	1
AX8-105	Approved Flight Manual Thunder Series 2 AX8-105	105 S2-CAN-8/99	1
AX9-140	Approved Flight Manual Thunder Series 2 AX9-140	140 S2-CAN-8/99	1
AX10-160	Approved Flight Manual Thunder Series 2 AX10-160	160 S2-CAN-8/99	1
AX10-180	Approved Flight Manual Thunder Series 2 AX10-180	180 S2-CAN-8/99	1
AX10-210	Approved Flight Manual Thunder Series 2 AX10-210	210 S2-CAN-8/99	1
AX10-225	Approved Flight Manual Thunder Series 2 AX10-225	225 S2-CAN-8/99	1
AX10-250	Approved Flight Manual Thunder Series 2 AX10-250	250 S2-CAN-8/99	1
SERIES III			
AX6-56A	Approved Flight Manual Thunder Series 3 AX6-56A	56A S3-CAN-8/99	1

Type Certificate Data Sheet

TYPE	CAA Approved Flight Manual (for Canadian Registered Balloons)	Dated (or latest approved version)	Issue
AX7-77A	Approved Flight Manual Thunder Series 3 AX7-77A	77A S3-CAN-8/99	1
SERIES IV			
AX4-31Z	Approved Flight Manual Thunder Series 4 AX4-31Z	31Z S4-CAN8/99	1
AX6-56Z	Approved Flight Manual Thunder Series 4 AX6-56Z	56Z S4-CAN8/99	1
AX7-65Z	Approved Flight Manual Thunder Series 4 AX7-65Z	65Z S4-CAN8/99	1
AX7-77Z	Approved Flight Manual Thunder Series 4 AX7-77Z	77Z S4-CAN8/99	1
SERIES V			
AX5-42 BOLT	Approved Flight Manual Thunder Series 5 AX5-42 BOLT	42 BOLT S5-CAN8/99	1
AX6-56 BOLT	Approved Flight Manual Thunder Series 5 AX6-56 BOLT	56 BOLT S5-CAN8/99	1
AX7-65 BOLT	Approved Flight Manual Thunder Series 5 AX7-65 BOLT	65 BOLT S5-CAN8/99	1
AX7-77 BOLT	Approved Flight Manual Thunder Series 5 AX7-77 BOLT	77 BOLT S5-CAN8/99	1

- END -

K. Mansfield
 Director, Aircraft Certification
 for Minister of Transport

Type Certificate Data Sheet

Number: B-5
 Issue No.: 4
 Approval Date: Refer below
 Issue Date: September 27,

1990

This Data Sheet which is part of Type Approval Certificate No. B-5 Issue 4 prescribes the conditions and limitations under which the product(s) for which the Type Approval Certificate was granted meet(s) the standards of airworthiness required pursuant to the Air Regulations.

Type Approval Holder:

Thunder & Colt Limited
 Maesbury Road, Oswestry
 Shropshire SY10 8HA
 England

Models

Colt Balloons Ltd.	56A	105 A	77A
	160 A	56B Bullit	180 A
	77B Bullit	240 A	

MODEL 56A (Hot Air Balloon) Approved May 16, 1983

MODEL 56B Bullit (Hot Air Balloon) Approved December 13, 1985

Burner Colt Mk II Double; Drawing 791024-3-issue 4
 Colt Mk III Double; Drawing 871105-1-issue 1
 Colt Magnum Superseal Double; Drawing B3T-100-issue 1

Basket	Basket Drawing Number	Nominal Base Dimensions cm (in)	Maximum Occupants (including pilot)
	831025-1 iss 2 }	106 x 106	} 3
	810402-1 iss 2 }	(40 x 40)	
	831025-1 iss 2 }	106 x 122 (40 x 48)	} 3
	810402-1 iss 2 }		
	850815-1 iss 2 }	106 x 141	} 3
	850815-3 iss 2 }	(40 x 54)	
	850814-1 iss 2 }		



Type Certificate Data Sheet

Envelope 56A: Drawing 791120-1-Issue 2
56B Bullit: Drawing 800-122-1-issue 1

Maximum Weight 560 kg (1230 lbs)

Geometry 1,590 cu. m. (56,150 cu. ft.)

Fuel capacity Maximum: 4 cylinders
Minimum: 2 cylinders

Serial Numbers 007 and subsequent
Eligible

MODEL 77A (Hot Air Balloon) Approved May 16, 1983

MODEL 77B Bullit (Hot Air Balloon) Approved December 13, 1983

Burner Colt Mk II Double; Drawing 791024-3-issue 4
Colt Mk III Double; Drawing 871105-1-issue 1
Colt Magnum Superseal Double; Drawing B3T-100-issue 1

Basket	Basket Drawing Number		Nominal Base Dimensions cm (in)		Maximum Occupants (including pilot)
	831025-1	iss 2 }	106 x 122	}	3
	810402-1	iss 2 }	(40 x 48)	}	
	850815-1	iss 2 }	106 x 141	}	
	850815-3	iss 2 }	(40 x 54)	}	4
	850814-1	iss 2 }		}	

Envelope 77A: Drawing 800207-1-issue 1
77B Bullit: Drawing 800122-2 issue 1

Maximum Weight 770 kg. (1700 lbs)

Geometry 2190 cu. m. (77,339 cu. ft.)

Fuel capacity Maximum: 6 cylinders
Minimum: 2 cylinders

Type Certificate Data Sheet

MODEL 160A (Hot Air Balloon) Approved February 25, 1985

Burner Colt Mk II Double; Drawing 791024-3-issue 4 (standard)
 Colt Mk II Triple; Drawing 830726-5-issue 1 (optional)
 Colt Mk II Quadruple; Drawing 811022-1-issue 1 (optional)
 Colt Mk II Quadruple with quiet burner; Drawing 850327-1-issue 2
 (optional)
 Colt Mk III Double; Drawing 871105-1-issue 1
 Colt Magnum Superseal Double; Drawing B3T-100-issue 1

Basket	Basket Drawing Number	Nominal Base Dimensions cm (in)	Maximum Occupants (including pilot)
	850815-1	iss 2 }	}
	850815-3	iss 2 } 106 x 141	} 4
	850814-1	iss 2 } (40 x 54)	}
	850912-1	iss 2 }	}
	850913-1	iss 1 } 106 x 156	} 5
	850913-3	iss 2 } (40 x 60)	}
	850916-1	iss 2 }	}
	850916-3	iss 2 } 122 x 178	} 6
	850917-1	iss 1 } (48 x 70)	}
	850514-1	iss 1 }	}
	850514-3	iss 1 } 152 x 220	} 9
	850904-1	iss 3 } (60 x 87)	}
	850904-3	iss 1 }	}

Envelope Drawing 790801-1-issue 1

Maximum Weight 1300 kg (2865 lbs)

Geometry 4533 cu.m. (160,000 cu.ft.)

Fuel capacity Maximum: 6 cylinders 152.4 x 221.0 cm T partition basket (60 x 87")
 Minimum: 2 cylinders

Type Certificate Data Sheet

Serial Numbers Eligible All serial numbers for which a Certificate of Airworthiness for Export to Canada has been received as specified in "Import Requirements".

MODEL 180A Class AX10 (Hot Air Balloon) Approved November 23, 1989

Burner Colt MK II Double; Drawing 791024-3-issue 4
 Colt MK II Triple; Drawing 830726-5-issue 1
 Colt MK II Quad.; Drawing 811022-1-issue 1
 Colt MK II Quad. with quiet burner,
 Drawing 850327-1-issue 2 (optional)
 Colt MK III Double; Drawing 871105-1-issue 1
 Colt Magnum Superseal Double; Drawing B3T-100-issue 1

Basket	Basket Drawing Number	Nominal Base Dimensions cm (in)	Maximum Occupants (including pilot)
	850815-1	iss 2 }	} 4
	850815-3	iss 2 } 106 x 141	
	850814-1	iss 2 } (40 x 54)	
	850912-1	iss 2 }	} 5
	850913-1	iss 1 } 106 x 156	
	850913-3	iss 2 } (40 x 60)	
	850916-1	iss 2 }	} 6
	850916-3	iss 2 } 122 x 178	
	850917-1	iss 1 } (48 x 70)	
	850514-1	iss 1 }	} 9
	850514-3	iss 1 } 152 x 220	
	850904-1	iss 3 } (60 x 87)	
	850904-3	iss 1 }	

Envelope Drawing 851021-1-issue 1

Maximum weight 1300 kg (2866 lbs)

Geometry 5,100 cu m (180,000 cu ft)

Type Certificate Data Sheet

Serial Numbers Eligible All serial numbers for which a Certificate of Airworthiness for Export to Canada has been received as specified in "Import Requirements".

DATA PERTINENT TO ALL MODELS EXCEPT AS INDICATED

Overhead Frame	Drawing 791029-1-issue 6
Fuel	Commercial propane certified caustic free
Maximum Occupants	See under Basket Drawing Number
Minimum Crew	1 pilot
Maximum Envelope Temperature	120°C (248°F)
Cylinder Capacity	20 kg (44 lb each) Worthington 30 kg (66 lb each) Colt V30
Type Approval Basis	FAR 31, Amendments 31.1 to 31.3 (to 31.4 for Colt model 240A)
Import Requirements	The import documentation must include: <ol style="list-style-type: none">a) A Certificate of Airworthiness for Export to Canada signed by a representative of the C.A.A. and containing the following statement: "The balloon identified by this certificate has been examined and found to conform to the Canadian Department of Transport Aircraft Type Approval B-5." orb) Other procedures approved by the Minister.

Type Certificate Data Sheet

Required Equipment

The basic required equipment as specified in the applicable Airworthiness Regulations must be installed in the balloon (see Type Approval Basis). In addition, the following equipment must be installed:

- 1) CAA Approved Colt Balloon Flight Manual as listed in Approved Publications.
- 2) Fire Extinguisher
- 3) Two sources of ignition (not safety matches)
- 4) Altimeter
- 5) Rate of climb indicator
- 6) Envelope temperature indicator
- 7) Fuel quantity gauge
- 8) Two (2) master cylinders
- 9) Colt Mk II burner or Colt Mk III burner or Colt Magnum Superseal burner.

Approved Publications

CAA Approved Colt Hot Air Balloon Flight Manual (Issue 2) dated January 1983, or later CAA approved revision, for Canadian Registered balloons and the following Canadian addendums:

<u>Model</u>	<u>Flight Manual</u>
56A	56A-CAN-Issue 2
56B	56B-CAN-Issue 2
77A	77A-CAN-Issue 2
77B	77B-CAN-Issue 2
105A	(P,VP)-105A-CAN-Issue 2
160A	(P,VP)-160A-CAN-Issue 2
180A	VP-180A-CAN-Issue 2
240A	P-240A-CAN-Issue 2

- END -

Type Certificate Data Sheet

Number: B-6
 Issue No.: 8
 Approval Date: Refer Below
 Issue Date: December 15, 1998

This Data Sheet which is part of Type Certificate No. B-6 prescribes the conditions and limitations under which the product(s) for which the Type Certificate was granted meet(s) the standards of airworthiness required by the Canadian Aviation Regulations.

Type Certificate Holder:

Cameron Balloons Ltd.
 St. John's Street
 Bedminster, Bristol
 England BS3 4NH

Models

Dairy Queen Cone	Pump-70	Saucer-80
ICG Propane Bottle	Penta-90	Dinosaur-80
House 60	Golf-76	Tiger-77
Truck 56	Cow-106	Elephant-77
Cart	Raindrop-77	Dragon
Maple Leaf-95	Waving Flag-90	Real Fruit-90
Calling Card -110	Monster Truck-105	

1. 'House 60' (Balloon) Approved September 9, 1983

Burner

Drawing Number:

CB205 Double or CB391 Single with auxiliary liquid burner fitted or CB392 Double or CB579 "Super" or CB494 Double with solenoid valve

Gondola

Drawing Number	Nominal Base		Max.	Max.
	Dimensions cm (in.)		<u>Occu.</u>	<u>Cyl.</u>
CB300-1	76 x 69	(30 x 27)	1	4
CB300-2 or 2A	97 x 114	(38 x 45)	3	4
CB300-3 or 3A	97 x 137	(38 x 54)	3	6
CB300-4 or 4A	107 x 147	(42 x 58)	3	6

(NOTE 2)

Envelope

Drawing Number CB192

Maximum Weight

508 kg (1120 lbs) (Refer to loading chart)

Geometry

1700 cu.m (60,000 cu.ft)



Type Certificate Data Sheet

Maximum Occupants 3 including pilot (Refer to gondola drawings above)

Serial Numbers Eligible 687 and subsequent

2. 'Truck 56' (Balloon) Approved May 20, 1986

Burner Drawing Number:

CB205 Double or CB391 Single with auxiliary liquid burner fitted or CB392 Double or CB579 "Super" or CB494 Double with solenoid valve

Gondola	Drawing Number	Nominal Base		Max.	Max.
		Dimensions cm (in.)		<u>Occu.</u>	<u>Cyl.</u>
	CB300-1	76 x 69	(30 x 27)	1	4
	CB300-2 or 2A	97 x 114	(38 x 45)	3	4
	CB300-3 or 3A	97 x 137	(38 x 54)	3	6
	CB300-4 or 4A	97 x 147	(42 x 58)	3	6

(NOTE 2)

Envelope Drawing Number CB383

Maximum Weight 508 kg (1120 lbs) (Refer to loading chart)

Geometry 1594 cu.m (56,287 cu.ft)

Maximum Occupants 3 including pilot (Refer to gondola drawings above)

Serial Numbers Eligible 1186 and subsequent

3. 'ICG Propane Bottle' (Balloon) Approved May 20, 1986

Burner Drawing Number:

CB205 Double or CB391 Single with auxiliary liquid burner fitted or CB392 Double or CB579 "Super" or CB494 Double with solenoid valve.

Type Certificate Data Sheet

Gondola	<u>Drawing Number</u>	<u>Nominal Base Dimensions cm (in.)</u>		Max.	Max.
				<u>Occu.</u>	<u>Cyl.</u>
				(NOTE 2)	
	CB300-1	76 x 69	(30 x 27)	1	4
	CB300-2 or 2A	97 x 114	(38 x 45)	2	4
	CB300-3 or 3A	97 x 137	(38 x 54)	2	6
	CB300-4 or 4A	107 x 147	(42 x 58)	2	6

Envelope Drawing Number CB395

Maximum Weight 479 kg (1157 lbs) (Refer to loading chart)

Geometry 1784 cu.m (63,000 cu.ft)

Maximum Occupants 2 including pilot (Refer to gondola drawings above)

Serial Numbers Eligible 997 and subsequent

4. 'Pump-70' (Balloon) Approved December 10, 1987

Burner Drawing Number:

CB205 Double or CB391 Single with auxiliary liquid burner fitted or CB392 Double or CB579 "Super" or CB494 Double with solenoid valve.

Gondola	<u>Drawing Number</u>	<u>Nominal Base Dimensions cm (in.)</u>		Max.	Max.
				<u>Occu.</u>	<u>Cyl.</u>
				(NOTE 2)	
	CB300-1	76 x 69	(30 x 27)	1	4
	CB300-2 or 2A	97 x 114	(38 x 45)	3	4
	CB300-3 or 3A	97 x 137	(38 x 54)	3	6
	CB300-4 or 4A	107 x 147	(42 x 58)	3	6

Envelope Drawing Number CB512

Maximum Weight 508 kg (1120 lbs) (Refer to loading chart)

Geometry 1650 cu.m, (58,250 cu. ft.)

Maximum Occupants 3 including pilot (refer to gondola drawings above)



Type Certificate Data Sheet

Serial Numbers 1425 and subsequent
Eligible

5. 'Golf 76' (Balloon) Approved February 22, 1988

Burner Drawing Number:

CB205 Double or CB391 Single with auxiliary liquid burner fitted or
CB392 Double or CB579 "Super" or CB494 Double with solenoid valve.

Gondola	<u>Drawing Number</u>	Nominal Base		Max.	Max.
		<u>Dimensions cm (in.)</u>		<u>Occu.</u>	<u>Cyl.</u>
				(NOTE 2)	
	CB300-1	76 x 69	(30 x 27)	1	4
	CB300-2 or 2A	97 x 114	(38 x 45)	3	4
	CB300-3 or 3A	97 x 137	(38 x 54)	3	6
	CB300-4 or 4A	107 x 147	(42 x 58)	3	6

Envelope Drawing Number CB507

Maximum Weight 689 kg (1520 lbs) (Refer to loading chart)
Geometry 2152 cu.m, (76,000 cu. ft.)

Maximum Occupants 3 including pilot (refer to gondola drawings above)

Serial Numbers 1396 and subsequent
Eligible

6. 'Saucer-80' (Balloon) Approved September 16, 1988

Burner Drawing Number:

CB205 Double or CB391 Single with auxiliary liquid burner fitted or
CB392 Double or CB579 "Super" or CB494 Double with solenoid valve.

Gondola	<u>Drawing Number</u>	Nominal Base		Max.	Max.
		<u>Dimensions cm (in.)</u>		<u>Occu.</u>	<u>Cyl.</u>
				(NOTE 2)	
	CB300-1	76 x 69	(30 x 27)	1	4
	CB300-2 or 2A	97 x 114	(38 x 45)	3	4
	CB300-3 or 3A	97 x 137	(38 x 54)	3	6
	CB300-4 or 4A	107 x 147	(42 x 58)	3	6



Type Certificate Data Sheet

Envelope Drawing Number CB639

Maximum Weight 708 kg (1560 lbs) (Refer to loading chart)

Geometry 2209 cu.m, (78,000 cu. ft.) (active)

Maximum Occupants 3 including pilot (refer to gondola drawings above)

Serial Numbers 1641 and subsequent
Eligible

7. 'Dinosaur-80' (Balloon) Approved September 16, 1988

Burner Drawing Number:

CB205 Double or CB391 Single with auxiliary liquid burner fitted or
CB392 Double or CB579 "Super" or CB494 Double with solenoid valve.

Gondola	<u>Drawing Number</u>	Nominal Base		Max.	Max.
		<u>Dimensions cm (in.)</u>		<u>Occu.</u>	<u>Cyl.</u>
	CB300-1	76 x 69	(30 x 27)	1	4
	CB300-2 or 2A	97 x 114	(38 x 45)	3	4
	CB300-3 or 3A	97 x 137	(38 x 54)	3	6
	CB300-4 or 4A	107 x 147	(42 x 58)	3	6

Envelope Drawing Number CB606

Maximum Weight 726 kg (1600 lbs) (Refer to loading chart)

Geometry 2266 cu.m, (80,000 cu. ft.) (active)

Maximum Occupants 3 including pilot (refer to gondola drawings above)

Serial Numbers 1610 and subsequent
Eligible



Type Certificate Data Sheet

8. 'Penta-90' (Balloon) Approved September 16, 1988

Burner Drawing Number :

CB205 Double or CB391 Single with auxiliary liquid burner fitted or
CB392 Double or CB579 "Super" or CB494 Double with solenoid valve.

Gondola	<u>Drawing Number</u>	<u>Nominal Base Dimensions cm (in.)</u>		<u>Max. Occu.</u>	<u>Max. Cyl.</u>
				(NOTE 2)	
	CB300-1	76 x 69	(30 x 27)	1	4
	CB300-2 or 2A	97 x 114	(38 x 45)	3	4
	CB300-3 or 3A	97 x 137	(38 x 54)	3	6
	CB300-4 or 4A	107 x 147	(42 x 58)	3	6

Envelope Drawing Number CB598

Maximum Weight 617 kg (1360 lbs) (Refer to loading chart)

Geometry 1926 cu.m, (68,000 cu. ft.) (active)

Maximum Occupants 3 including pilot (refer to gondola drawings above)

Serial Numbers Eligible 1614 and subsequent

9. 'Tiger-77' (Balloon) Approved September 16, 1988

Burner Drawing Number:

CB205 Double or CB391 Single with auxiliary liquid burner fitted or
CB392 Double or CB579 "Super" or CB494 Double with solenoid valve.

Gondola	<u>Drawing Number</u>	<u>Nominal Base Dimensions cm (in.)</u>		<u>Max. Occu.</u>	<u>Max. Cyl.</u>
				(NOTE 2)	
	CB300-1	76 x 69	(30 x 27)	1	4
	CB300-2 or 2A	97 x 114	(38 x 45)	3	4
	CB300-3 or 3A	97 x 137	(38 x 54)	3	6
	CB300-4 or 4A	107 x 147	(42 x 58)	3	6

Envelope Drawing Number CB645



Type Certificate Data Sheet

Maximum Weight 703 kg (1550 lbs) (Refer to loading chart)
Geometry 2195 cu.m, (77,500 cu. ft.) (active)

Maximum Occupants 3 including pilot (refer to gondola drawings above)

Serial Numbers 1713 and subsequent
Eligible

10. 'Elephant-77' (Modified) (Balloon) Approved June 29, 1987

Burner Drawing Number:

CB205 Double or CB391 Single with auxiliary liquid burner fitted or
CB392 Double or CB579 "Super" or CB494 Double with solenoid valve.

Gondola	<u>Drawing Number</u>	<u>Nominal Base</u>		Max. <u>Occu.</u> (NOTE 2)	Max. <u>Cyl.</u>
		<u>Dimensions cm (in.)</u>			
	CB300-1	76 x 69	(30 x 27)	1	4
	CB300-2 or 2A	97 x 114	(38 x 45)	3	4
	CB300-3 or 3A	97 x 137	(38 x 54)	3	6
	CB300-4 or 4A	107 x 147	(42 x 58)	3	6
	CB300-5 or -5A	130 x 208	(51 x 82)	3	6

Envelope Drawing Number CB414/1

Maximum Weight 635 kg (1400 lbs) (Refer to loading chart)

Geometry 1982 cu.m, (70,000 cu. ft.) (active)

Maximum Occupants 3 including pilot (refer to gondola drawings above)

Serial Numbers 1363 and subsequent
Eligible



Type Certificate Data Sheet

11. 'Dairy Queen Cone' (Balloon) Approved May 9, 1988

Burner

Drawing Number:

CB205 Double or CB391 Single with auxiliary liquid burner fitted or
CB392 Double or CB579 "Super" or CB494 Double with solenoid valve.

Gondola

<u>Drawing Number</u>	<u>Nominal Base Dimensions cm (in.)</u>		<u>Max. Occu.</u> (NOTE 2)	<u>Max. Cyl.</u>
CB300-1	76 x 69	(30 x 27)	1	4
CB300-2 or 2A	97 x 114	(38 x 45)	3	4
CB300-3 or 3A	97 x 137	(38 x 54)	3	6
CB300-4 or 4A	107 x 147	(42 x 58)	3	6

Envelope

Drawing Number CB382

Maximum Weight

590 kg (1300 lbs) (Refer to loading chart)

Geometry

1947 cu.m, (68,700 cu. ft.)

Maximum Occupants

3 including pilot (refer to gondola drawings above)

Serial Numbers Eligible

963 and subsequent

12. 'Cow-106' (Balloon) Approved July 22, 1991

Burner

Drawing Number:

CB205 Double or CB391 Single with auxiliary liquid burner fitted or
CB392 Double or CB579 Super" or CB494 Double with solenoid valve.

Gondola

<u>Drawing Number</u>	<u>Nominal Base Dimensions cm (in.)</u>		<u>Max. Occu.</u> (NOTE 2)	<u>Max. Cyl.</u>
CB300-1	76 x 69	(30 x 27)	1	4
CB300-2 or 2A	97 x 114	(38 x 45)	3	4
CB300-3 or 3A	97 x 137	(38 x 54)	4	6
CB300-4 or 4A	107 x 147	(42 x 58)	4	6

Envelope

Drawing Number CB736

Type Certificate Data Sheet

Maximum Weight 934 kg (2060 lbs) (Refer to loading chart)

Geometry 2017 cu.m (103,000 cu. ft.) (active)

Maximum Occupants 4 including pilot (refer to gondola drawings above)

Serial Numbers 2014 and subsequent
Eligible

13. 'Cart' (Balloon) Approved March 3, 1994

Burner Drawing Number:

CB205 Double or CB391 Single with auxiliary liquid burner fitted or
CB392 Double or CB579 "Super" or CB494 Double with solenoid valve or
CB460 Double with solenoid valve or CB595 Super with solenoid valve or
CB2075 Shadow Double or CB2008 Stealth Double

Gondola	<u>Drawing Number</u>	Nominal Base		Max.	Max.
		<u>Dimensions cm (in.)</u>		<u>Occu.</u>	<u>Cyl.</u>
				(See NOTE 2)	
	CB300-1	76 x 69	(30 x 27)	1	4
	CB310-1A	97 x 97	(38 x 38)	2	4
	CB994	86 x 104	(34 x 41)	3	4
	CB300-2 or-2A	97 x 114	(38 x 45)	3	4
	CB310-2A	97 x 114	(38 x 45)	3	4
	CB3033	101 x 132	(40 x 52)	3	4
	CB300-3 or 3A	97 x 137	(38 x 54)	3	6
	CB310-3A	97 x 137	(38 x 54)	3	6
	CB300-4 or 4A	107 x 147	(42 x 58)	3	6
	CB310-4A	107 x 147	(42 x 58)	3	6
	CB300-5	127 x 163	(50 x 64)	3	8
	CB303	107 x 175	(42 x 69)	3	8
	CB308	107 x 175	(42 x 69)	3	8
	CB967	107 x 175	(42 x 69)	3	8
	CB950	120 x 180	(47 x 71)	3	8

Envelope Drawing Number CB1027

Maximum Weight 726 kg (1600 lbs) (Refer to 'Cart' loading chart)

Geometry 2266 cu.m (80,000 cu. ft.) (active)

Type Certificate Data Sheet

15. 'Dragon' (Balloon) Approved July 26, 1996

Burner

Drawing Number:

CB205 Double or CB391 Single with auxiliary liquid burner fitted or
 CB392 Double or CB579 "Super" or CB2075 Shadow Double or
 CB2008 Stealth Double or CB460 Double with solenoid valve or
 CB494 Double with solenoid valve or CB595 Super with solenoid valve.

Gondola

<u>Drawing Number</u>	<u>Nominal Base Dimensions cm (in.)</u>		<u>Max. Occu.</u> (NOTE 2)	<u>Max. Cyl.</u>
CB300-1	76 x 69	(30 x 27)	1	4
CB300-2 or 2A	97 x 114	(38 x 45)	3	4
CB300-3 or 3A	97 x 137	(38 x 54)	4	6
CB300-4 or 4A	107 x 147	(42 x 58)	5	6
CB300-5	127 x 163	(50 x 64)	5	8
CB310-1A	97 x 97	(38 x 38)	2	4
CB310-2A	97 x 114	(38 x 45)	3	4
CB3033	101 x 132	(40 x 52)	4	4
CB310-3A	97 x 137	(38 x 54)	4	6
CB310-4A	107 x 147	(42 x 58)	5	6
CB303	107 x 175	(42 x 69)	5	8
CB308	107 x 175	(42 x 69)	5	8
CB967	107 x 175	(42 x 69)	5	8
CB950	120 X 180	(47 x 71)	5	8
CB994	86 x 104	(34 x 41)	3	4

Envelope

Drawing Number 1030

Maximum Weight

907 kg (2000 lbs) (Refer to loading chart)

Geometry

2832 cu.m (100,000 cu. ft.) (active)

Maximum Occupants

5 including pilot (refer to gondola drawings above)

Serial Numbers
Eligible

3016 and subsequent



Type Certificate Data Sheet

16. 'Maple Leaf-95' (Balloon) Approved April 20, 1998

Burner

Drawing No.:

CB205 Double or CB392 Double or CB579 Double or CB2008 Double or CB2075 or CB2101 Double or CB2215 Double or CB2222 Double or CB2239 Double or CB2240 Double or CB2243 Double or CB2244 Double

Gondola

<u>Drawing Number</u>	<u>Nominal Base Dimensions cm (in.)</u>		<u>Max. Occu.</u> (NOTE 2)	<u>Max. Cyl.</u>
CB300-1	69 x 76	(27 x 30)	1	4
CB310-1A	97 x 97	(38 x 38)	2	4
CB994	86 x 104	(34 x 41)	3	4
CB300-2 or 2A	97 x 114	(38 x 45)	3	4
CB310-2A	97 x 114	(38 x 45)	3	4
CB3033	95 x 132	(37 x 52)	4	4
CB3054	140 x 107	(55 X 42)	4	4
CB300-3 or 3A	97 x 137	(38 x 54)	4	6
CB310-3A	97 x 137	(38 x 54)	4	6
CB300-4 or 4A	107 x 147	(42 x 58)	4	6
CB310-4A	107 x 147	(42 x 58)	4	6
CB300-5	127 x 163	(50 x 64)	4	8
CB303	107 x 175	(42 x 69)	4	8
CB308	107 x 175	(42 x 69)	4	8
CB967	107 x 175	(42 x 69)	4	8
CB950	120 x 180	(47 x 71)	4	8
CB3051	86 x 104	(34 X 41)	3	4

Envelope

Drawing Number CB1173

Maximum Weight

816 kg (1800 lbs) (Refer to loading chart)

Geometry

2550 cu.m (90,000 cu. ft.)

Maximum Occupants

4 including pilot (refer to gondola drawings above)

Serial Numbers

3849 and subsequent

Eligible

Type Certificate Data Sheet

17. 'Waving Flag-90' (Balloon) Approved April 20, 1998

Burner

Drawing No.:

CB205 Double or CB392 Double or CB579 Double or CB2008 Double or
 CB2075 or CB2101 Double or CB2215 Double or CB2222 Double or CB2239
 Double or CB2240 Double or CB2243 Double or CB2244 Double

Gondola

<u>Drawing Number</u>	<u>Nominal Base Dimensions cm (in.)</u>		<u>Max. Occu.</u> (NOTE 2)	<u>Max. Cyl.</u>
CB300-1	69 x 76	(27 x 30)	1	4
CB310-1A	97 x 97	(38 x 38)	2	4
CB994	86 x 104	(34 x 41)	3	4
CB300-2 or 2A	97 x 114	(38 x 45)	3	4
CB310-2A	97 x 114	(38 x 45)	3	4
CB3033	95 x 132	(37 x 52)	4	4
CB3054	107 x 140	(42 x 55)	4	4
CB300-3 or 3A	97 x 137	(38 x 54)	4	6
CB310-3A	97 x 137	(38 x 54)	4	6
CB300-4 or 4A	107 x 147	(42 x 58)	4	6
CB310-4A	107 x 147	(42 x 58)	4	6
CB300-5	127 x 163	(50 x 64)	4	8
CB303	107 x 175	(42 x 69)	4	8
CB308	107 x 175	(42 x 69)	4	8
CB967	107 x 175	(42 x 69)	4	8
CB950	120 x 180	(47 x 71)	4	8
CB3051	86 x 104	(34 x 41)	3	4

Envelope

Drawing Number CB1224

Maximum Weight

825 kg (1814 lbs) (Refer to loading chart)

Geometry

2569 cu.m (90,700 cu. ft.)

Maximum Occupants

4 including pilot (refer to gondola drawings above)

Serial Numbers

4134 and subsequent

Eligible



Type Certificate Data Sheet

18. 'Real Fruit-90' (Balloon) Approved April 20, 1998

Burner

Drawing No.:

CB205 Double or CB392 Double or CB579 Double or CB2075 Double or
CB2215 Double or CB2222 Double or CB2008 Double or CB2239 Double or
CB2240 Double or CB2101 Double or CB2243 Double or CB2244 Double

Gondola

<u>Drawing Number</u>	<u>Nominal Base Dimensions cm (in.)</u>		<u>Max. Occu.</u> (NOTE 2)	<u>Max. Cyl.</u>
CB300-1	69 x 76	(27 x 30)	1	4
CB310-1A	97 x 97	(38 x 38)	2	4
CB994	86 x 104	(34 x 41)	3	4
CB300-2 or 2A	97 x 114	(38 x 45)	3	4
CB310-2A	97 x 114	(38 x 45)	3	4
CB3033	95 x 132	(37 x 52)	4	4
CB300-3 or 3A	97 x 137	(38 x 54)	4	6
CB310-3A	97 x 137	(38 x 54)	4	6
CB300-4 or 4A	107 x 147	(42 x 58)	4	6
CB310-4A	107 x 147	(42 x 58)	4	6
CB300-5	127 x 163	(50 x 64)	4	8
CB303	107 x 175	(42 x 69)	4	8
CB308	107 x 175	(42 x 69)	4	8
CB967	107 x 175	(42 x 69)	4	8
CB950	120 x 180	(47 x 71)	4	8
CB3051	86 x 104	(34 x 41)	3	4
CB3054	107 x 149	(42 x 55)	4	4

Envelope

Drawing Number CB1233

Maximum Weight

823 kg (1815 lbs) (Refer to loading chart)

Geometry

2571 cu.m (90,772 cu. ft.)

Maximum Occupants

4 including pilot (refer to gondola drawings above)

Serial Numbers
Eligible

4172 and subsequent



Type Certificate Data Sheet

19. 'Calling Card - 110' (Balloon)

Approved December 15, 1998

Burner

Drawing No.:

CB205 Double or CB392 Double or CB579 Double or CB2075 Double or
CB2215 Double or CB2222 Double or CB2008 Double or CB2239 Double or
CB2240 Double or CB2101 Double, CB2243 Double or CB2244 Double

Gondola

<u>Drawing Number</u>	<u>Nominal Base Dimensions cm (in.)</u>		<u>Max. Occu.</u> (NOTE 2)	<u>Max. Cyl.</u>
CB300-1	69 x 76	(27 x 30)	1	4
CB310-1A	97 x 97	(38 x 38)	2	4
CB994	86 x 104	(34 x 41)	3	4
CB300-2 or 2A	97 x 114	(38 x 45)	3	4
CB310-2A	97 x 114	(38 x 45)	3	4
CB3033	95 x 132	(37 x 52)	4	4
CB3054	140 x 107	(55 X 42)	4	4
CB300-3 or 3A	97 x 137	(38 x 54)	4	6
CB310-3A	97 x 137	(38 x 54)	4	6
CB300-4 or 4A	107 x 147	(42 x 58)	4	6
CB310-4A	107 x 147	(42 x 58)	4	6
CB300-5	127 x 163	(50 x 64)	4	8
CB303	107 x 175	(42 x 69)	4	8
CB308	107 x 175	(42 x 69)	4	8
CB967	107 x 175	(42 x 69)	4	8
CB950	120 X 180	(47 x 71)	4	8
CB3051	86 x 104	(34 X 41)	3	4

Envelope

Drawing Number CB1190

Maximum Weight

998 kg (2200 lbs) (Refer to loading chart)

Geometry

3115 cu.m (110,000 cu. ft.)

Maximum Occupants

4 including pilot (refer to gondola drawings above)

Serial Numbers

3947 and subsequent

Eligible



Type Certificate Data Sheet

20. 'Monster Truck - 105' (Balloon)

Approved December 15, 1998

Burner

Drawing No.:

CB205 Double or CB392 Double or CB579 Double or CB2075 Double or
CB2215 Double or CB2222 Double or CB2008 Double or CB2239 Double or
CB2240 Double or CB2101 Double or CB2243 Double or CB2244 Double

Gondola

<u>Drawing Number</u>	<u>Nominal Base Dimensions cm (in.)</u>		<u>Max. Occu.</u> (NOTE 2)	<u>Max. Cyl.</u>
CB300-1	69 x 76	(27 x 30)	1	4
CB310-1A	97 x 97	(38 x 38)	2	4
CB994	86 x 104	(34 x 41)	3	4
CB300-2 or 2A	97 x 114	(38 x 45)	3	4
CB310-2A	97 x 114	(38 x 45)	3	4
CB3033	95 x 132	(37 x 52)	4	4
CB300-3 or 3A	97 x 137	(38 x 54)	4	6
CB310-3A	97 x 137	(38 x 54)	4	6
CB300-4 or 4A	107 x 147	(42 x 58)	4	6
CB310-4A	107 x 147	(42 x 58)	4	6
CB300-5	127 x 163	(50 x 64)	4	8
CB303	107 x 175	(42 x 69)	4	8
CB308	107 x 175	(42 x 69)	4	8
CB967	107 x 175	(42 x 69)	4	8
CB950	120 X 180	(47 x 71)	4	8
CB3051	86 x 104	(34 x 41)	3	4

Envelope

Drawing Number CB1165

Maximum Weight

952 kg (2100 lbs) (Refer to loading chart)

Geometry

2973 cu.m (105,000 cu. ft.)

Maximum Occupants

4 including pilot (refer to gondola drawings above)

Serial Numbers
Eligible

3607 and subsequent

Type Certificate Data Sheet

DATA PERTINENT TO ALL MODELS EXCEPT AS INDICATED

Fuel Type	Commercial Propane, certified caustic free
Fuel Capacity	Minimum of 2 cylinders (see NOTE 1)
Minimum Crew	One (1) Pilot
Maximum Envelope Temperature	120°C (250°F)
Basis of Certification	Dairy Queen Cone, ICG Propane Bottle, House-60, Truck-56, Cart, Pump-70, Penta-90, Golf-76, Cow-106, Raindrop-77, Saucer-80, <u>Dinosaur-80, Tiger-77, Elephant-77, Dragon</u> FAR 31 effective July 1, 1964 including amendments 31-1 and 31-2. <u>Calling Card-110, Monster Truck-105, Maple Leaf-95, Waving Flag-90</u> FAR 31 effective July 1, 1964 including Amendment 31-4, except FAR 31.47 at Amendment 2. <u>Real Fruit-90</u> FAR 31 effective July 1, 1964 including Amendment 31-4.
Import Requirements	The import documentation must include: a) A Certificate of Airworthiness for Export signed by a representative of the U.K. Civil Aviation Authority (CAA) <p style="text-align: center;">or</p> b) A Certificate of Airworthiness for Export signed by the Airworthiness Authority of a Country with whom Canada has a bilateral Airworthiness Agreement. In case (a) or (b), the C of A must contain the following statement: “The balloon identified by this Certificate has been examined and found to conform to Canadian Type Certificate No. B-6.” <p style="text-align: center;">or</p> c) Other procedures approved by the Minister of Transport

Type Certificate Data Sheet

Approved
Publications

1. CAA approved Cameron House 60 Flight Manual dated February 18, 1991.*
2. CAA approved Cameron Truck 56 Flight Manual Issue 2 dated February 14, 1986 including Amendment 2 dated September 28, 1988.*
3. CAA approved Cameron ICG Propane Bottle Flight Manual Issue 1 dated 18 February 1991 including Amendment Number 1 dated July 7, 1989.*
4. CAA approved Cameron Pump-70 Canadian Flight Manual Issue 1 dated November 11, 1987 including Amendment Number 2 dated July 4, 1989.*
5. CAA approved Golf-76 Canadian Flight Manual Issue 1 dated November 11, 1987 including Amendment Number 1 dated September 28, 1988.*
6. CAA approved Saucer-80 Canadian Flight Manual Issue 1 dated August 23, 1988 including Amendment Number 2 dated July 5, 1989.*
7. CAA approved Dinosaur-80 Canadian Flight Manual Issue 1 dated August 23, 1988 including Amendment Number 2 dated June 30, 1989.*
8. CAA approved Penta-90 Canadian Flight Manual Issue 1 dated August 22, 1988 including Amendment Number 2 dated July 6, 1989.*
9. CAA approved Tiger-77 Canadian Flight Manual Issue 1 dated August 22, 1988 including Amendment Number 2 dated June 28, 1989.*
10. CAA approved Elephant-77 (Modified), Canadian Flight Manual Issue 1 dated September 14, 1987 including Amendment Number 3 dated July 4, 1989.*
11. CAA approved Dairy Queen Cone Canadian Flight Manual Issue 1 dated October 8, 1990 Including Amendment Number 2 dated October 29, 1990.*

Type Certificate Data Sheet

- Approved Publications (Cont'd)
12. CAA approved Cow-106 Canadian Flight Manual Issue 1 dated October 19, 1990.*
 13. CAA approved Cart Canadian Flight Manual Issue 1 dated 14 September 1993*
 14. CAA approved Raindrop-77 Canadian Flight Manual Issue 1 dated March 16, 1993*
 15. CAA approved Dragon Canadian Flight Manual Issue 1 dated September 14, 1993*
 16. CAA approved Maple Leaf-95 Canadian Flight Manual Issue 1, Amendment 1, dated 07/09/97*
 17. CAA approved Waving Flag-90 Canadian Flight Manual Issue 1, Amendment 1, dated 07/09/97*
 18. CAA approved Real Fruit-90 Canadian Flight Manual, Issue 1 dated 22-12-97*
 19. CAA approved Calling Card-110 Canadian Flight Manual, Issue 1 dated 07/09/97*
 20. CAA approved Monster Truck-105 Canadian Flight Manual, Issue 1 dated 07-09-97*

* or later approved amendments.

Required Equipment

The basic required equipment as specified in the applicable Airworthiness Regulations must be installed in the balloon. In addition, the following equipment is mandatory:

- 1) CAA approved Canadian Flight Manuals as listed in Approved Publications.
- 2) Fire extinguisher
- 3) Cameron Balloons Loading Chart
- 4) Lighter - sparker, matches or equivalent



Type Certificate Data Sheet

NOTE 1

Weight

Fuel Cylinder Master, (aluminium), empty with cover	14 kg / 31 lb
Fuel Cylinder Standard, (aluminium), empty with cover	13 kg / 29 lb
Fuel capacity of aluminium cylinder in each case	20 kg / 43 lb
Fuel Cylinder Master, (601 stainless), empty with cover	22 kg / 48 lb
Fuel Cylinder Standard, (601 stainless), empty with cover	21 kg / 46 lb
Fuel capacity of 601 stainless cylinder in each case	28 kg / 61 lb

NOTE 2

Assuming weight limits are not exceeded where maximum number of occupants are carried.

- END -

K. Mansfield
Director, Aircraft Certification
for Minister of Transport

Type Certificate Data Sheet

Number: B-7
 Issue No.: 1
 Approval Date: August 11,
 Issue Date: October 1,

1992

1992

This Data Sheet which is part of Type Approval Certificate No. B-7 Issue 1 prescribes the conditions and limitations under which the product(s) for which the Type Approval Certificate was granted meet(s) the standards of airworthiness required pursuant to the Air Regulations.

Type Approval Holder:

Thunder & Colt Limited
 Maesbury Road, Oswestry
 Shropshire SY10 8HA
 England

Models

Colt Flying Hat Colt Flying Coke Can
 Colt Flying Open Book

1. MODEL COLT FLYING HAT (Hot Air Balloon) Approved August 11, 1992

Hot air balloon in the shape of a cowboy hat, based around 24 gores.

Burner	Colt Magnum Superseal Double Drawing No. B3T-100 Issue 1		
Basket	Basket Drawing Number	Nominal Base Dimensions cm (in)	Maximum Occupants
	850910-1 iss 2 }	106 x 122	}
	850911-3 iss 1 }	(40 x 48)	} 3
	850911-1 iss 2))
Overhead Frame	Drawing 841001-1 issue 2		
Envelope	Drawing SS HAT-100		
Maximum Weight	1050 kg (2300 lbs)		
Geometry	Nominal volume 2973 cu. m. (105,000 cu.ft)		
Serial Numbers Eligible	1449 and subsequent		

Type Certificate Data Sheet

Type Certificate Data Sheet

2. MODEL COLT FLYING COKE CAN (Hot Air Balloon) Approved August 11, 1992

Hot air balloon in the shape of a coke can, based around 32 gores.

Burner	Colt Magnum Superseal Double Drawing No. B3T-100 Issue 1		
Basket	Basket Drawing Number	Nominal Base Dimensions cm (in)	Maximum Occupants
	850910-1 iss 2 }	106 x 122	}
	850911-3 iss 1 }	(40 x 48)	} 3
	850911-1 iss 2))
Overhead Frame	Drawing 841001-1 issue 2		
Envelope	Drawing CC-100 issue 1		
Maximum Weight	770 kg (1700 lbs)		
Geometry	Nominal volume 2180 cu. m. (77,000 cu.ft)		
Serial Numbers Eligible	1472 and subsequent		

3. MODEL COLT FLYING OPEN BOOK (Hot Air Balloon) Approved August 11, 1992

Hot air balloon in the shape of an open book, based around 18 gores.

Burner	Colt Magnum 3 Double Drawing No. 871105-1 issue 1		
Basket	Basket Drawing Number	Nominal Base Dimensions cm (in)	Maximum Occupants
	850910-1 iss 1 }	106 x 122	}
	850911-3 iss 1 }	(40 x 48)	} 3
	850911-1 iss 2))
Overhead Frame	Drawing 841001-1 Issue 2		



Type Certificate Data Sheet

Envelope	Drawing	SS OPB 001 SS OPB 100 SS OPB 101 SS OPB 102 SS OPB 103 SS OPB 110
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Maximum Weight	900 kg (1984 lbs)
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Geometry	Nominal volume 2549 cu. m. (90,000 cu.ft)
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Serial Numbers Eligible	1691 and subsequent
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DATA PERTINENT TO ALL MODELS EXCEPT AS INDICATED

Fuel	Commercial propane certified caustic free
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Maximum Occupants	See under Basket Drawing Number
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Minimum Crew	1 pilot
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Maximum Envelope Temperature	120°C (248°F)
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Cylinder Capacity	Either 20 kg (44 lbs) or 30 kg (66 lbs)
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Fuel Capacity	Maximum: 4 cylinders Minimum: 2 cylinders
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Type Approval Basis	FAR 31 Amendments 31.1 to 31.4
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Type Certificate Data Sheet

Import Requirements The import documentation must include:

- a. A Certificate of Airworthiness for Export to Canada, signed by a representative of the CAA.

or

- b. A Certificate of Airworthiness for Export signed by the Airworthiness Authority of a country with whom Canada has a Bilateral Airworthiness agreement.

In case a) or b), the C of A must contain the following statement:

"The balloon identified by this Certificate has been examined and found to conform to the Canadian Department of Transport Balloon Type Approval B-7".

or

- c. Other procedures approved by the Minister.

Required Equipment

The basic required equipment as specified in the applicable Airworthiness Regulations must be installed in the balloon (see Type Approval Basis). The following equipment must be installed:

1. CAA approved Thunder and Colt Hot Air Balloon Flight Manual as listed in Approved Publications.
2. Fire Extinguisher.
3. Two sources of ignition (not safety matches).
4. Altimeter.
5. Rate of climb indicator.
6. Envelope temperature indicator.
7. Fuel quantity gauge.
8. Two (2) master cylinder.
9. Colt burner of the type specified under the individual models.



Type Certificate Data Sheet

Approved
Publications

CAA approved Thunder and Colt Hot Air Balloon Flight Manual (issue 5) dated July, 1987, for Canadian registered balloons and the following CAA approved Canadian addendums:

Model

Colt Flying Hat
Colt Flying Coke Can
Colt Flying Open Book

Flight Manual Addendum

FLYING HAT-CAN-ISSUE 2
COKE CAN-CAN-ISSUE 2
FLYING OPEN BOOK-CAN
ISSUE 2

- END -