

Approved by EASA under Approval Number 10038169

8.39 OUT OF PRODUCTION CYLINDER

8.39.1 GENERAL INFORMATION

This supplement shall be inserted in the Flight Manual, in Section 8: 'Supplements' with the revisions record sheet amended accordingly.

Information contained herein supplements, or in the case of conflict, supersedes that contained in the basic Flight Manual. For Limitations, Procedures, and Performance Data not contained in this supplement, consult the basic Hot Air Balloon Flight Manual.

Issue 1 of this supplement consists of four pages.

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

8.39.2 LIMITATIONS

No change.

8.39.3 EMERGENCY PROCEDURES

No change.

8.39.4 NORMAL PROCEDURES

No change.

8.39.5 WEIGHT CALCULATIONS

No change.

8.39.6 BALLOON AND SYSTEMS DESCRIPTION

8.39.6.4.6 Cameron Stainless Steel Fuel Cylinders

Cameron stainless steel fuel cylinders have usable volumes of between 42 and 71 litres and have straight dip tubes.

8.39.6.4.7 Cameron Titanium Fuel Cylinders

Titanium fuel cylinders provide the best fuel to cylinder weight ratio. They are externally similar to the stainless steel cylinders, but have an empty weight of approximately 10kg less per cylinder (see Table 11). Cameron Titanium fuel cylinders have straight dip tubes.

8.39.6.4.8 Colt Stainless Steel Fuel Cylinders

Colt stainless steel fuel cylinders have usable volumes of between 37 and 96 litres. Vertical cylinders have a shaped dip tube, horizontal cylinders have straight dip tubes.

Note: All cylinders bearing “Colt” and “Thunder & Colt” name plates are actually certified as Colt cylinders and should be regarded as such.

8.39.6.4.9 Sky Balloons Stainless Steel Fuel Cylinders

Sky Balloons stainless steel fuel cylinders have usable volumes of between 55 and 69 litres. The cylinders have a shaped dip tube.

8.39.6.4.10 Worthington Aluminium 40 litre (10 US Gallon)

The Worthington cylinder is an aluminium alloy fuel cylinder. It has a usable volume of 38 litres. Worthington cylinders have straight dip tubes.

8.39.7 BALLOON MAINTENANCE, HANDLING AND CARE

8.39.7.4.3 Cylinders

Note: The use - including handling, transportation and filling - of transportable gas cylinders manufactured prior to 2004 could be prohibited by legislation (e.g. ADR, RID, ADN) in many countries unless the cylinder has been reassessed for conformity against accepted design/manufacturing standards (e.g. pi-marked).

The owner/operator of the cylinder is responsible for establishing if compliance is required and ensuring that compliance is maintained. Cameron Balloons Ltd. is unable to provide advice on this matter and local guidance should be sought in the country of operation.

8.39.9 EQUIPMENT LIST

Table 7: Fuel Cylinders (additional)

Cylinder Category	Part Numbers		Material	Designation
	Original	Alternative		
1	DOT-4E-240	CB250	Aluminium	Worthington
2	-	CB426	St. steel	60
2	-	CB497	St. steel	40
2	-	CB599	St. steel	45
3	-	CB959	St. steel	80
3	-	CB2088	St. steel	T60
2	-	CB2380S	Titanium	60
3	-	CB2383S	Titanium	80
2	-	CB2385S	Titanium	45
3	-	CB2387S	Titanium	T60
2	-	V20-100-00/CB8420	St. steel	Colt V-20 / T&C V-20
2	830922-1	V30-100-00/CB8430	St. steel	Colt V-30 / T&C V-30
3		V40-100-00/CB8440	St. steel	Colt V-40 / T&C V-40
4	H40-100	-	St. steel	Colt H-40
4	830507-1	-	St. steel	Colt H-55
2	A0/V30		St. steel	Sky V-30
3	A0/V40		St. steel	Sky V-40

APPENDIX III (ADDITIONAL)
Table 9: Fuel Cylinder Weights And Volumes

Cylinder Material	Cylinder Type	Volume (Litres)		Configuration	(Including Cover & Straps)			
					Empty Weight		Full Weight	
		Total	Usable		kg	lb	kg	lb
Aluminium	Worthington	47	38	Master	15	33	34	75
				Standard	14	31	33	73
Stainless Steel	CB497 '40'	47	38	Master	17	38	36	80
				Standard	16	36	35	78
	CB599 '45'	51	41	Master	20	44	41	90
				Standard	19	42	40	88
	CB2088 'T60'	65	52	Master	23	51	50	110
				Standard	22	49	49	108
	CB426 '60'	69	55	Master	22	49	51	112
				Standard	21	46	50	110
	CB959 '80'	88	70	Master	26	57	62	137
				Standard	25	55	61	135
Stainless Steel	V-20*	47	38	Master	17	38	36	80
				Standard	16	36	35	78
	H-30/V-30*	69	55	Master	20	44	48	106
				Standard	19	42	47	104
	V-40*	87	69	Master	25	55	60	133
				Standard	24	53	59	131
	H-55	120	96	Master	30	66	78	172
				Standard	29	64	77	170
Titanium	CB2385 '45'	51	41	Master	11	24	34	75
				Standard	10	22	33	73
	CB2387 'T60'	65	52	Master	14	31	41	90
				Standard	13	29	40	88
	CB2380 '60'	70	56	Master	14	31	43	95
				Standard	13	29	42	93
	CB2383 '80'	88	70	Master	15	33	52	115
				Standard	14	31	51	112

* Applies to Colt, Thunder & Colt and Sky 'V' Series cylinders

Notes

The component weights given in Tables 9 and 10 are approximate and for guidance purposes only. For pre-flight weight calculations, the actual component weights given in Table 4 and the aircraft log book should be used.