



# **Balloon Flight Manual Supplement**

## *Cameron Balloons US Baskets and Burners*

This Balloon Flight Manual Supplement is initially approved by EASA under major change approval number 10070614, dated 26 July 2019.

Subsequent revisions are approved either by EASA or by authority of DOA, no. EASA.21J.277 as detailed on page 2.

This Balloon Flight Manual Supplement is approved in accordance with 14 CFR Section 21.29 for U.S. registered aircraft and is approved by the Federal Aviation Administration.

Initial date of approval: 31 July 2019

**This balloon is to be operated in compliance with information and limitations contained herein.  
The Balloon Flight Manual (and all applicable Balloon Flight Manual Supplements) has to be placed in the basket during flight.**

## 0.1 Record of Revisions

Any revision of this Balloon Flight Manual Supplement, must be recorded in the following table. The new or amended text in the revised page will be indicated by a black vertical line in the outer margin, and the Revision No. and the date will be shown on the bottom of the page.

All changes to this Balloon Flight Manual Supplement, which were made before the date of the issue stated on the title page, have been incorporated into this Supplement.

Revision Number	Affected Section	Affected Pages	Date of Issue	Approval	Date of Approval

## 0.2 List of Effective Pages

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## SECTION 1 - GENERAL

### 1.1 Introduction

This Balloon Flight Manual Supplement describes installation of Cameron Balloons US baskets and burners defined under FAA Type Certificate #B1GL, #B2GL, #B3GL, #B4GL to a Kubicek Balloons envelope. The arrangement and numbering of sections in this Balloon Flight Manual Supplement is the same as in the balloon Flight Manual. If any section is influenced, only the different or additional information is stated in this Balloon Flight Manual Supplement, all other remain without any change.

### 1.4 Definitions and Abbreviations

#### Abbreviations

CBUS - Cameron Balloons US  
 BFM – balloon Flight Manual  
 BFMS – balloon Flight Manual Supplement  
 MTOW –Maximum Takeoff Weight  
 RMTOW – Reduced Maximum Takeoff Weight  
 AMSL – Above Mean Sea Level  
 VFR / IFR – Visual Flight Rules / Instrument Flight Rules

## SECTION 2 - OPERATIONAL LIMITATIONS

Before EACH flight in which the Cameron Balloons US basket, burner and fuel tanks are flown, check that the logbook shows the installation of the basket, burner and fuel tanks by part number and serial number. If the balloon is flown regularly with the same basket, burner and fuel tanks, the entry needs to be made only before the first flight with such combination, and each subsequent change from Kubicek to Cameron Balloons US equipment, using the same set of equipment need say only “equipped as per entry on (DATE)” referring back to date entered for the first installation.

### 2.3 Fuel

The minimum quantity of fuel required at take-off is 1 full fuel tank per each burner unit.

	The maximum and minimum fuel pressure when CBUS burner is used		
	Ballons < 340 000 cu ft (9630 m3)	Balloons > 340 000 cu ft	Balloons > 340 000 cu ft using Shadow, Sirocco or Stratus burners
Maximum fuel pressure	15 bar (215 psi)	15 bar (215 psi)	15 bar (215 psi)
Minimum fuel pressure	3 bar (44 psi)	7 bar (102 psi)	5,5 bar (80 psi)

<b>CAUTION</b>	<i>Using of Whisper Burner is less efficient for fuel burn, so it will cause increase in fuel consumption (comparing to using of main burner).</i>
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### 2.9 Weight Range

#### RMTOW

For certain combinations of KB envelope and CBUS bottom-end a reduced MTOW is applicable. For list of these combinations refer to Section 5-Weight of this Balloon Flight Manual Supplement.

## 2.10. Basket Occupancy

### Basket Limitations:

Basket	Minimum floor area		MTOW for combination with the largest applicable envelope		Max. Number of Occupants (including pilot)
	[m2]	[sq.ft]	[kg]	[lbs]	
CB300-2 (CBUS300-2)	1.11	11.90	1150	2535	3
CB300-3 (CBUS300-3)	1.33	14.30	1451	3200	4
CB300-4 (CBUS300-4)	1.57	16.93	1633	3600	5
CB301-2 (CBUS301-2)	1.16	12.43	1150	2535	3
CB301-3 (CBUS301-3)	1.37	14.69	1451	3200	4
CB301-4 (CBUS301-4)	1.52	16.39	1451	3200	5
CB301-6 (CBUS301-6)	1.78	19.19	1633	3600	6
CB302-1 (CBUS302-1)	3.33	35.87	2494	5500	10
CB302-2 (CBUS302-2)	3.95	42.54	2494	5500	12
CB310-1A	0.94	10.13	945	2083	2
CB310-2A	1.11	11.90	1150	2535	3
CB310-3A	1.33	14.30	1451	3200	4
CB310-4A	1.57	16.93	1633	3600	5
CB310-5A	2.00	21.53	2040	4500	6
CB754	3.91	42.04	2494	5500	10
CB755	3.33	35.87	2494	5500	10
CB860	4.14	44.55	2494	5500	12
CB862	3.43	36.87	2494	5500	10
CB991	2.81	30.27	2268	5000	8
CB3004	4.87	52.39	3400	7500	14
CB3022	2.16	23.25	2040	4500	6
CB3042	5.58	60.06	3600	7937	19
CB3084	4.09	44.05	2494	5500	10
CB3288	6.41	68.96	3600	7937	23
CB8000	1.08	11.64	1150	2535	3
CB8001	1.25	13.43	1451	3200	4
CB8002	1.44	15.45	1451	3200	4
CB8003	1.59	17.13	1633	3600	5
CB8005	1.08	11.64	1150	2535	3
CB8006	1.25	13.43	1451	3200	4
CB8007	1.44	15.45	1451	3200	4
CB8008	1.59	17.13	1633	3600	5
CB8010	1.08	11.64	1150	2535	3
CB8012	1.25	13.43	1451	3200	4

Basket	Minimum floor area		MTOW for combination with the largest applicable envelope		Max. Number of Occupants (including pilot)
	[m <sup>2</sup> ]	[sq.ft]	[kg]	[lbs]	
CB8013	1.44	15.45	1451	3200	4
CB8014	1.59	17.13	1633	3600	5
CB8016	1.08	11.64	1150	2535	3
CB8017	1.25	13.43	1451	3200	4
CB8018	1.44	15.45	1451	3200	4
CB8019	1.59	17.13	1633	3600	5
CB8021	1.44	15.45	1451	3200	4
CB8022	1.59	17.13	1633	3600	5
CB8045	1.59	17.13	1633	3600	5

#### Occupancy of Compartmentalized Baskets:

Basket	Max.Occupancy of Each Passenger Compartment	Max. Occupancy of Pilot Compartment (including pilot)	Pilot Compartment Floor Area	
			[m <sup>2</sup> ]	[sq.ft]
CB302-1 (CBUS302-1)	4	2	1.24	13.3
CB302-2 (CBUS302-2)	5	2	1.24	13.3
CB310-5A	4	2	1.00	10.8
CB754	2	2	1.24	13.3
CB755	2	2	1.24	13.3
CB860	5	2	1.24	13.3
CB862	4	2	1.24	13.3
CB991	3	2	1.03	11.1
CB3004	3	2	1.24	13.3
CB3022	2	2	0.96	10.3
CB3042	4	3	1.24	13.3
CB3084	2	2	1.24	13.3
CB3288	5	3	1.19	12.8

## 2.11 Fitment Interchangeability

CBUS equipment can be used in following configurations only.

<b>Envelope</b>	<b>BB17GP, BB17XR</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832)
<b>Basket</b>	CB310-1A, CB300-2 (CBUS300-2), CB301-2 (CBUS301-2), CB310-2A, CB8000, CB8005, CB8010, CB8016, CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022 (see note 1)
<b>Minimum number of fuel tanks</b>	2

<b>Envelope</b>	<b>BB18E</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832)
<b>Basket</b>	CB310-1A, CB300-2 (CBUS300-2), CB301-2 (CBUS301-2), CB310-2A, CB8000, CB8005, CB8010, CB8016, CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022, CB991 (see note1)
<b>Minimum number of fuel tanks</b>	2

<b>Envelope</b>	<b>BB20, BB20ED, BB20E</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832)
<b>Basket</b>	CB310-1A, CB300-2 (CBUS300-2), CB301-2 (CBUS301-2), CB310-2A, CB8000, CB8005, CB8010, CB8016, CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022, CB991 (see note1)
<b>Minimum number of fuel tanks</b>	2

<b>Envelope</b>	<b>BB20GP, BB20XR</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832)
<b>Basket</b>	CB310-1A, CB300-2 (CBUS300-2), CB301-2 (CBUS301-2), CB310-2A, CB8000, CB8005, CB8010, CB8016, CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022, CB991 (see note1)
<b>Minimum number of fuel tanks</b>	2



<b>Envelope</b>	<b>BB22ED, BB22E</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832)
<b>Basket</b>	CB310-1A, CB300-2 (CBUS300-2), CB301-2 (CBUS301-2), CB310-2A, CB8000, CB8005, CB8010, CB8016, CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022, CB991, CB302-1 (CBUS302-1), CB755, CB862 (see note 1)
<b>Minimum number of fuel tanks</b>	2

<b>Envelope</b>	<b>BB22, BB22D, BB22N, BB22Z</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832)
<b>Basket</b>	CB310-1A, CB300-2 (CBUS300-2), CB301-2 (CBUS301-2), CB310-2A, CB8000, CB8005, CB8010, CB8016, CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022, CB991, CB302-1 (CBUS302-1), CB755, CB862 (see note 1)
<b>Minimum number of fuel tanks</b>	2

<b>Envelope</b>	<b>BB22XR</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832)
<b>Basket</b>	CB310-1A, CB300-2 (CBUS300-2), CB301-2 (CBUS301-2), CB310-2A, CB8000, CB8005, CB8010, CB8016, CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022, CB991, CB302-1 (CBUS302-1), CB755, CB862 (see note 1)
<b>Minimum number of fuel tanks</b>	2

<b>Envelope</b>	<b>BB26E, BB26ED</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832)
<b>Basket</b>	CB310-1A, CB300-2 (CBUS300-2), CB301-2 (CBUS301-2), CB310-2A, CB8000, CB8005, CB8010, CB8016, CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022, CB991, CB302-1 (CBUS302-1), CB755, CB862, CB302-2 (CBUS302-2), CB754, CB860, CB3084 (see note 1)
<b>Minimum number of fuel tanks</b>	2

<b>Envelope</b>	<b>BB26, BB26D, BB26N, BB26Z, BB26XR</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832)
<b>Basket</b>	CB310-1A, CB300-2 (CBUS300-2), CB301-2 (CBUS301-2), CB310-2A, CB8000, CB8005, CB8010, CB8016, CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022, CB991, CB302-1 (CBUS302-1), CB755, CB862, CB302-2 (CBUS302-2), CB754, CB860, CB3084 (see note 1)
<b>Minimum number of fuel tanks</b>	2

<b>Envelope</b>	<b>BB30E, BB30ED</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832)
<b>Basket</b>	CB310-1A, CB300-2 (CBUS300-2), CB301-2 (CBUS301-2), CB310-2A, CB8000, CB8005, CB8010, CB8016, CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022, CB991, CB302-1 (CBUS302-1), CB755, CB862, CB302-2 (CBUS302-2), CB754, CB860, CB3084 (see note 1)
<b>Minimum number of fuel tanks</b>	2

<b>Envelope</b>	<b>BB30D, BB30N, BB30Z, BB30XR</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832)
<b>Basket</b>	CB310-1A, CB300-2 (CBUS300-2), CB301-2 (CBUS301-2), CB310-2A, CB8000, CB8005, CB8010, CB8016, CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022, CB991, CB302-1 (CBUS302-1), CB755, CB862, CB302-2 (CBUS302-2), CB754, CB860, CB3084 (see note 1)
<b>Minimum number of fuel tanks</b>	2

<b>Envelope</b>	<b>BB34D, BB34ED, BB34E, BB34Z</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832)
<b>Basket</b>	CB300-2 (CBUS300-2), CB301-2 (CBUS301-2), CB310-2A, CB8000, CB8005, CB8010, CB8016, CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022, CB991, CB302-1 (CBUS302-1), CB755, CB862, CB302-2 (CBUS302-2), CB754, CB860, CB3084 (see note 1)
<b>Minimum number of fuel tanks</b>	2

<b>Envelope</b>	<b>BB37D, BB37N, BB37Z</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832)
<b>Basket</b>	CB300-2 (CBUS300-2), CB301-2 (CBUS301-2), CB310-2A, CB8000, CB8005, CB8010, CB8016, CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022, CB991, CB302-1 (CBUS302-1), CB755, CB862, CB302-2 (CBUS302-2), CB754, CB860, CB3084 (see note 1)
<b>Minimum number of fuel tanks</b>	2

<b>Envelope</b>	<b>BB40D, BB40Z</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832)
<b>Basket</b>	CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022, CB991, CB302-1 (CBUS302-1), CB755, CB862, CB302-2 (CBUS302-2), CB754, CB860, CB3084, CB3004 (see note 1)
<b>Minimum number of fuel tanks</b>	2

<b>Envelope</b>	<b>BB42D, BB42Z</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832)
<b>Basket</b>	CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022, CB991, CB302-1 (CBUS302-1), CB755, CB862, CB302-2 (CBUS302-2), CB754, CB860, CB3084, CB3004 (see note 1)
<b>Minimum number of fuel tanks</b>	2

<b>Envelope</b>	<b>BB45D, BB45N, BB45Z</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832) Triple burner assemblies: MK IV (CB378), MK IV SUPER (CB663-1or-2), MK IV ULTRA (CB2081-1or-2), Sirocco (CB2703, CB2833)
<b>Basket</b>	CB300-3 (CBUS300-3)*, CB301-3 (CBUS301-3)*, CB301-4 (CBUS301-4)*, CB310-3A*, CB8001*, CB8002*, CB8006*, CB8007*, CB8012*, CB80013*, CB8017*, CB8018*, CB8021*, CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045, CB310-5A, CB3022, CB991, CB302-1 (CBUS302-1), CB755, CB862, CB302-2 (CBUS302-2), CB754, CB860, CB3084, CB3004 (see note 1) <b>Maximum permitted MTOW is 3200 lbs (1451 kg)</b>
<b>Minimum number of fuel tanks</b>	2 burner units = 2 fuel tanks 3 burner units = 3 fuel tanks

<b>Envelope</b>	<b>BB51D, BB51Z</b>
<b>Burner</b>	Double burner assemblies: MK III (CB205), MK IV (CB392 /CBUS392), MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832) Triple burner assemblies: MK IV (CB378), MK IV SUPER (CB663-1or-2), MK IV ULTRA (CB2081-1or-2), Sirocco (CB2703, CB2833)
<b>Basket</b>	CB300-4 (CBUS300-4)*, CB301-6 (CBUS301-6)*, CB310-4A*, CB8003*, CB8008*, CB8014*, CB8019*, CB8022*, CB8045*, CB310-5A, CB3022, CB991, CB302-1 (CBUS302-1), CB755, CB862, CB302-2 (CBUS302-2), CB754, CB860, CB3084, CB3004, CB3042 (see note 1) <b>Maximum permitted MTOW is 3600 lbs (1633 kg)</b>
<b>Minimum number of fuel tanks</b>	2 burner units = 2 fuel tanks 3 burner units = 3 fuel tanks

<b>Envelope</b>	<b>BB60D, BB60N, BB60Z</b>
<b>Burner</b>	Double burner assembly: MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832) Triple burner assembly: MK IV (CB378), MK IV SUPER (CB663-1or-2), MK IV ULTRA (CB2081-1or-2), Sirocco (CB2703, CB2833)
<b>Basket</b>	CB310-5A, CB3022, CB991, CB302-1 (CBUS302-1), CB755, CB862, CB302-2 (CBUS302-2), CB754, CB860, CB3084, CB3004, CB3042, CB3288 (see note 1)
<b>Minimum number of fuel tanks</b>	2 burner units = 2 fuel tanks 3 burner units = 3 fuel tanks 4 burner units = 4 fuel tanks

<b>Envelope</b>	<b>BB64Z</b>
<b>Burner</b>	Double burner assembly: MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832) Triple burner assembly: MK IV (CB378), MK IV SUPER (CB663-1or-2), MK IV ULTRA (CB2081-1or-2), Sirocco (CB2703, CB2833) Quad burner assembly: MK IV SUPER (CB616), MK IV ULTRA (CB2083-1or-2), Sirocco (CB2704, CB2834)
<b>Basket</b>	CB310-5A*, CB3022*, CB991, CB302-1 (CBUS302-1), CB755, CB862, CB302-2 (CBUS302-2), CB754, CB860, CB3084, CB3004, CB3042, CB3288 (see note 1) <b>Maximum permitted MTOW is 4500 lbs (2040 kg)</b>
<b>Minimum number of fuel tanks</b>	2 burner units = 2 fuel tanks 3 burner units = 3 fuel tanks 4 burner units = 4 fuel tanks

<b>Envelope</b>	<b>BB70D, BB70Z</b>
<b>Burner</b>	Double burner assembly: MK IV SUPER (CB579-1or-2 /CBUS579-1or-2), MK IV ULTRA (2075-1or-2), MK V (2059), Stratus (CB8820, CB8821), Sirocco (CB2702, CB2832) Triple burner assembly: MK IV (CB378), MK IV SUPER (CB663-1or-2), MK IV ULTRA (CB2081-1or-2), Sirocco (CB2703, CB2833) Quad burner assembly: MK IV SUPER (CB616), MK IV ULTRA (CB2083-1or-2), Sirocco (CB2704, CB2834)
<b>Basket</b>	CB991*, CB302-1 (CBUS302-1), CB755, CB862, CB302-2 (CBUS302-2), CB754, CB860, CB3084, CB3004, CB3042, CB3288 (see note 1) <b>Maximum permitted MTOW is 5000 lbs (2268 kg)</b>
<b>Minimum number of fuel tanks</b>	2 burner units = 2 fuel tanks 3 burner units = 3 fuel tanks 4 burner units = 4 fuel tanks

<b>Envelope</b>	<b>BB78Z</b>
<b>Burner</b>	Triple burner assembly: MK IV (CB378), MK IV SUPER (CB663-1or-2), MK IV ULTRA (CB2081-1or-2), Sirocco (CB2703, CB2833) Quad burner assembly: MK IV SUPER (CB616), MK IV ULTRA (CB2083-1or-2), Sirocco (CB2704, CB2834)
<b>Basket</b>	CB302-1 (CBUS302-1)*, CB755*, CB862*, CB302-2 (CBUS302-2)*, CB754*, CB860*, CB3084*, CB3004, CB3042, CB3288 (see note 1) <b>Maximum permitted MTOW is 5500 lbs (2494 kg)</b>
<b>Minimum number of fuel tanks</b>	3 burner units = 3 fuel tanks 4 burner units = 4 fuel tanks

<b>Envelope</b>	<b>BB85D, BB85Z</b>
<b>Burner</b>	Triple burner assembly: MK IV (CB378), MK IV SUPER (CB663-1or-2), MK IV ULTRA (CB2081-1or-2), Sirocco (CB2703, CB2833) Quad burner assembly: MK IV SUPER (CB616), MK IV ULTRA (CB2083-1or-2), Sirocco (CB2704, CB2834)
<b>Basket</b>	CB3004, CB3042, CB3288 (see note 1)
<b>Minimum number of fuel tanks</b>	3 burner units = 3 fuel tanks 4 burner units = 4 fuel tanks

<b>Envelope</b>	<b>BB92Z</b>
<b>Burner</b>	Triple burner assembly: MK IV SUPER (CB663-1or-2), MK IV ULTRA (CB2081-1or-2), Sirocco (CB2703, CB2833) Quad burner assembly: MK IV SUPER (CB616), MK IV ULTRA (CB2083-1or-2), Sirocco (CB2704, CB2834)
<b>Basket</b>	CB3004, CB3042, CB3288 (see note 1)
<b>Minimum number of fuel tanks</b>	3 burner units = 3 fuel tanks 4 burner units = 4 fuel tanks

<b>Envelope</b>	<b>BB100D, BB100Z</b>
<b>Burner</b>	Triple burner assembly: MK IV SUPER (CB663-1or-2), MK IV ULTRA (CB2081-1or-2), Sirocco (CB2703, CB2833) Quad burner assembly: MK IV SUPER (CB616), MK IV ULTRA (CB2083-1or-2), Sirocco (CB2704, CB2834)
<b>Basket</b>	CB3004, CB3042, CB3288 (see note 1)
<b>Minimum number of fuel tanks</b>	3 burner units = 3 fuel tanks 4 burner units = 4 fuel tanks

<b>Envelope</b>	<b>BB105P, BB106P</b>
<b>Burner</b>	Triple burner assembly: MK IV SUPER (CB663-1or-2), MK IV ULTRA (CB2081-1or-2), Sirocco (CB2703, CB2833) Quad burner assembly: MK IV SUPER (CB616), MK IV ULTRA (CB2083-1or-2), Sirocco (CB2704, CB2834)
<b>Basket</b>	CB3004*, CB3042, CB3288 (see note 1) <b>Maximum permitted MTOW is 7500 lbs (3400 kg)</b>
<b>Minimum number of fuel tanks</b>	3 burner units = 3 fuel tanks 4 burner units = 4 fuel tanks

<b>Envelope</b>	<b>BB113P</b>
<b>Burner</b>	Triple burner assembly: MK IV SUPER (CB663-1or-2), MK IV ULTRA (CB2081-1or-2), Sirocco (CB2703, CB2833) Quad burner assembly: MK IV SUPER (CB616), MK IV ULTRA (CB2083-1or-2), Sirocco (CB2704, CB2834)
<b>Basket</b>	CB3042, CB3288 (see note 1)
<b>Minimum number of fuel tanks</b>	3 burner units = 3 fuel tanks 4 burner units = 4 fuel tanks

**Note 1: Baskets**

Please note that drawing numbers CBxxxx are grouped in the CBUS Flight Manual and Maintenance Manual Supplements, as per below grouping:

- B** CB310-1A
- C** CB300-2 (CBUS300-2), CB301-2 (CBUS301-2), CB310-2A, CB8000, CB8005, CB8010, CB8016
- D** CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021
- E** CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045
- G** CB310-5A, CB3022
- H** CB991
- I** CB302-1 (CBUS302-1), CB755, CB862
- J** CB302-2 (CBUS302-2), CB754, CB860, CB3084
- M** CB3004
- O** CB3042
- Q** CB3288

### Additional Limitations

Rotation Vent must be fitter when:

- any Cameron Balloons US partitioned basket, basket with door and/or seats is used

Different frame dimensions:

- before changing a combination of envelope and basket to another approved combination, care needs to be taken of the suitability of the flying wires. If the new frame has different dimensions than the original one, the flying wires need to be replaced following the instructions provided in Maintenance Manual Supplement (B.3205-MMS\_USBEC). If in doubt, ask KB for further assistance and technical support.

Single burner assemblies:

- are NOT PERMITTED for combinations of KB envelopes and CBUS bottom-ends.

Double, triple or quad burners:

- each burner unit must have its own independent fuel supply.

Burners with vapor pilot lights:

- when double burner with vapor pilot lights is used, two Cameron Master tanks must be installed, when triple burner with vapor pilot lights is used, either two Cameron Master and one Cameron Standard tanks or three Cameron Mastertanks must be installed, when quadruple burner with vapor pilot lights is used, four Cameron Master tanks must be installed.

Burners with liquid pilot lights:

- when double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be installed, when triple burner with liquid pilot lights is used, three Cameron Master or Standard tanks must be installed, when quadruple burner with liquid pilot lights is used, four Cameron Master or Standard tanks must be installed.

Additional Cameron Master or Standard tanks may be carried as desired by pilot.

For fuel tank specification see Section 8 – Equipment List.

### Maximum Altitude

The maximum allowable flight altitude according to VFR in the U.S.A. is 18,000 ft AMSL. If using the MK III burner (part no. CB205), the maximum altitude at take-off is 10,000 ft AMSL.

### Fuel tanks and manifold system

Two independent fuel systems, each containing usable fuel, must be available. An optional approved fuel manifold (part numbers: F361, F362, F389, F390, F391, F363, F364, F392, F393, F394, F380, F381) may be used in either or both fuel systems to simultaneously connect multiple fuel tanks to the system. No more than one fuel manifold may be used in each fuel system. If a fuel manifold is used, each inlet hose fitting (7141F) on the manifold must be connected to a tank liquid withdrawal valve and the manifold outlet connector (7141M) must be connected to the burner fuel hose. If fewer tanks than connectors will be used, the entire manifold must be disconnected, and fuel must completely bypass the manifold. Under this circumstance, fuel will pass directly from the tank into the burner fuel hose. For more information about fuel manifolds and their applicability see the Maintenance Manual Supplement B.3205-MMS\_USBEC, Appendix X – Fuel Manifolds.

## SECTION 3 - EMERGENCY PROCEDURES

No change

## SECTION 4 - NORMAL PROCEDURES

No change

## SECTION 5 - WEIGHT

For the following combinations a reduced MTOW is applicable.

Envelopes	Baskets	RMTOW
BB45D, BB45N, BB45Z	CB300-3 (CBUS300-3), CB301-3 (CBUS301-3), CB301-4 (CBUS301-4), CB310-3A, CB8001, CB8002, CB8006, CB8007, CB8012, CB80013, CB8017, CB8018, CB8021	3200 lbs (1451 kg)
BB51D, BB51Z	CB300-4 (CBUS300-4), CB301-6 (CBUS301-6), CB310-4A, CB8003, CB8008, CB8014, CB8019, CB8022, CB8045	3600 lbs (1633 kg)
BB64Z	CB310-5A, CB3022	4500 lbs (2040 kg)
BB70D, BB70Z	CB991	5000 lbs (2268 kg)
BB78Z	CB302-1 (CBUS302-1), CB755, CB862, CB302-2 (CBUS302-2), CB754, CB860, CB3084	5500 lbs (2494 kg)
BB105P, BB106P	CB3004	7500 lbs (3400 kg)

For combinations other than those stated in this table, the standard MTOW stated in Envelope Weight Limits chart in KB BFM applies.

### 5.1 Introduction

As stated in the Section 2, chapter 2.9 Weight Range of the balloon Flight Manual (B.3105), the actual weight of the balloon must be kept between the upper limit weight (MTOW, lowered MTOW, RMTOW and Maximum Balloon Lifting Capacity – whichever is lesser) and lower limit weight (MLW) during the entire flight.

## SECTION 6 - BALLOON AND SYSTEMS DESCRIPTION

### 6.5 Burner

CBUS burners applicable for combining with KB envelopes are the double, triple and quad configurations (allowed combinations are described in chapter 2.11 of this BFMS). It consists of two or more burner units and a burner frame. Double, triple and quad models use a central gimbal block that makes an inner frame redundant. Within the burner, liquid gas is vaporized and burnt to heat the air within the envelope. The fuel is ignited by a pilot light (liquid pilot lights are standard) that runs all the time that the balloon is inflated. Both the main burner and whisper burner have an “off” or “on” mode. The amount of heat is controlled by duration of the heating and number of burner units engaged. All burners are controlled by means of the valves placed on the underside of the burner on the manifold block. The heat of the burner is greatly influenced by the fuel pressure that is affected by the ambient temperature. In lower temperatures pressurization of the fuel cylinders is recommended.

Burner options include vapour pilot lights, squeeze action operation, adjustable height burner frames and EasyUp™ Burner Frame (further described in following paragraphs). Larger burner frames are fitted with anodised aluminium heat shields as standard feature and the largest frames have 8-point suspension system.

<b>CAUTION</b>	<i>Burner malfunction due to oxygen insufficiency in the ambient air may appear in altitudes above 6 000 m (20 000 ft) AMSL.</i>
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<b>NOTE</b>	<i>The maximum allowable flight altitude according to VFR in the U.S.A. is 18,000 ft AMSL.</i>
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### 6.5.2 Whisper Burner

Whisper burner is standard on all CBUS burners. It is an auxiliary burner with separate fuel path (fully redundant). The Whisper Burner feeds liquid fuel directly to a multi-hole jet without passing through the vaporizing coil. This provides a quieter but less powerful flame (80% as powerful as the main burner). It is intended for use when reduction of burner noise is desired.

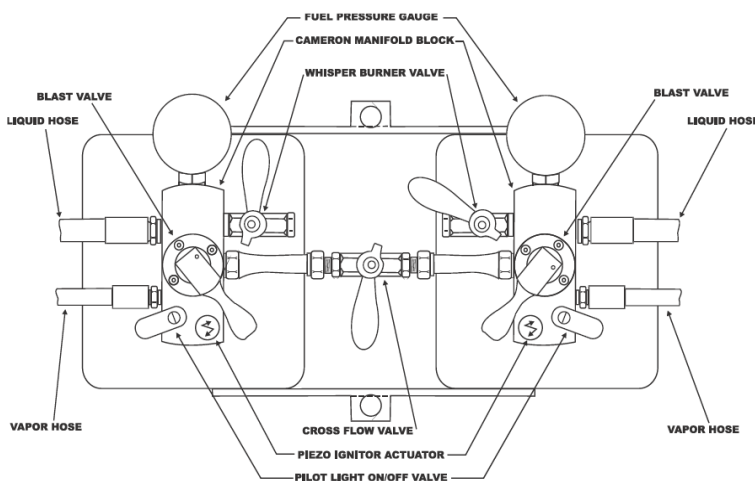
**CAUTION** *Using of Whisper Burner is less efficient for fuel burn, so it will cause increase in fuel consumption (comparing to using of main burner).*

### 6.5.3 Pilot Light

Burner ignition is provided by a pilot light (AKA pilot flame or pilot burner). A pilot light is fuelled either by liquid propane (standard option) taken from the burner block and vaporized in the vaporizing tube or by vapor phase taken by a separate hose from the top of the fuel cylinder. Each pilot light has its own piezo igniter which is covered by the handle of the pilot light lever, when it is in the off position.

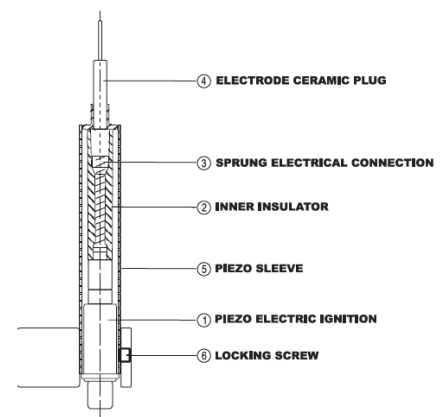
To run the pilot light, open the pilot light on/off valve and ignite the fuel vapor using the piezo igniter. To turn the pilot light off move the valve to the closed (off) position.

The piezo igniter is activated by pressing on the piezo ignitor actuator. Pressing the actuator button causes a spark between the upper point of the igniter and the pilot light cup and ignites the flame.



**MK IV SUPER BURNER**

Source: Cameron Balloons Instructions for Continued Airworthiness, Fig. 6.12



**MK IV ULTRA BURNERS PIEZO IGNITOR**

Source: Cameron Balloons Instructions for Continued Airworthiness, Fig.6.28

### 6.5.6 Fuel Supplies

For double, triple or quad burners each burner unit has its own independent fuel supply. Single burner assemblies are not permitted for combinations of KB envelopes and CBUS bottom-ends. The liquid fuel hoses on double, triple and quad burners are identified by matching colored bands at each end of a hose.

Fuel should always be vented from fuel hoses when the burner is not in use. The remaining fuel can cause damage to the fuel hoses due to heat expansion.

### **6.5.7 Burner Frame**

The burner frame is made from stainless steel tubing. The burner units are swivel-mounted on a gimbal block on a horizontal bar that runs across the burner frame (this provides a two-axis gimballed system). At each corner the burner frame has lugs, where the basket carabiners hook up. The tube sockets are attached either by articulated connection (FlexiRigid system) or fixed. The nylon rods that support the burner above the basket are fitted into these sockets and covered by removable padded sleeves.

### **6.5.8 Adjustable Burner Frame**

A variable height burner frame allows the burner to be raised and lowered relative to the basket floor for about 7 inches. This adjustment can be safely carried out in flight.

The adjustable burner frame locks in place. To adjust the height, press the release lever and move to intended position.

### **6.5.12 EasyUp™ Burner Frame**

EasyUp™ is an optional feature of CBUS burner frames. It allows the burner to be easily separated from the frame (on ground) which enables complete installation of the burner in an upright position without lifting any weight above the height of the basket.

For installation, lay the basket on its side and install the burner into the outer frame with the attached quick-pins.

## **6.7 Baskets**

Baskets are made with traditional wickerwork sides and a solid water-resistant plywood floor (solid floor models) or wicker floor (woven floor models). Load-bearing basket cables form a continuous sling around the basket and are connected at both ends to the burner frame. These cables support the weight of the basket when the balloon is in flight. Flexible rods fit into sockets on the top rim of the basket and into sockets on the underside of the burner frame to support the weight of the burner. The support rods and the cables that are beside them should be covered by removable padded suede sleeves that also protect the fuel hoses. The basket walls have small openings to permit straps to be fed through, so that the fuel cylinders can be secured to the inside walls of the basket. Equipment and instruments that are carried in the balloon may be strapped to the basket or put into special padded bags that are secured to the sides of the basket. Light weight flight instruments and radios may be attached to the rod covers by Velcro straps. Inside the basket, under the upper rim of the basket, there are rope handles for use by passengers during landing. On the outside of the basket, near the bottom edge, there are manipulation rope handles to be used for ground handling.

### **6.7.1 Basket types**

#### **6.7.1.1 Partitioned Baskets**

Larger baskets have internal partitions woven into the walls and fixed to the floor and upper frame of the basket. These partitions provide greater structural integrity to the basket and separation between groups of passengers. In these baskets the pilot and fuel cylinders are contained in a separate compartment from the passengers.

#### **6.7.1.2 Open baskets**

##### Sport baskets

These models are open (non-partitioned) baskets with woven floor and double-wave wicker sides. The upper frame of the basket is curved (swept top).

##### Aristocrat baskets

These models are open (non-partitioned) baskets with woven floor and single-wave wicker sides. The upper frame of the basket is curved (swept top). These models have additional rope handles and can have also more entry step holes.

Flat top baskets

These models are open (non-partitioned) baskets with woven floor and single-wave wicker sides. The upper frame of the basket is straight (flat top). These models have additional rope handles and can have also more entry step holes.

Solid floor baskets

These models are open (non-partitioned) baskets with plywood (solid) floor and single-wave wicker sides. The upper frame of the basket is available in different shapes - curved (swept top), straight tucked in (diplomat) and straight aligned with the sides (flat top). These models have additional rope handles and can have also more entry step holes.

## **SECTION 7 - BALLOON HANDLING, CARE AND MAINTENANCE**

### **7.3 Balloon Maintenance, Repairs and Alterations**

All balloon maintenance and repairs must be carried out in accordance with the Kubicek Balloons Maintenance Manual Supplement (B.3205-MMS\_USBEC). If in doubt, contact KB (see the last page of this Balloon Flight Manual Supplement).

The Maintenance Manual (and all its supplements) is available for downloading on the Kubicek Balloons website: [www.kubicekballoons.eu](http://www.kubicekballoons.eu).

### **7.5 Cleaning and Care**

#### **7.5.2 Basket**

Refer to the Kubicek Balloons Maintenance Manual Supplement (B.3205-MMS\_USBEC).

#### **7.5.4 Burner**

Refer to the Kubicek Balloons Maintenance Manual Supplement (B.3205-MMS\_USBEC).

## SECTION 8 - EQUIPMENT LIST

The following chart is describing CBUS fuel tanks that can be used in addition to the fuel tanks described in BFM B.3105.

Manufacturer	Material	Type	Empty Weight		Full Weight	
			[kg]	[lb]	[kg]	[lb]
Cameron Balloons	Aluminium	Worthington (CB250)	14	31	34	75
		CB2990	13	26	34	71
	Stainless steel	CB497	16	35	34	75
		CB599	20	44	41	90
		CB2088	22	48	50	110
		CB426	22	48	51	112
		CB959	25	55	61	135
		A0/V30	20	44	48	106
		A0/V40	25	55	60	133
		CBUS1050	26	58	54	121
		CBUS1060	30	67	67	152
	Titanium	CB2385	11	24	34	75
		CB2387	14	31	41	90
		CB2380	13	29	42	93
		CB2383	15	33	52	114
	Duplex stainless steel	CB2900	21	46	44	96
		CB2901	23	51	53	117
		CB2902	24	53	51	113
		CB2903	27	60	63	139

**Note 1:**

Eligible Cameron Master tanks:

CB250 Master, CB497\*, CB599\*, CB2385\*, CB2900\*, CB2902\*, CB426\*, CB2380\*, CB2387\*, CBUS1050\*, CB2901\*, CB2903\*, CB959\*, CB2383\* and CBUS1060\*

\* when fitted with vapor outlet and regulator

Eligible Cameron Standard tanks:

CB250 Standard, CB497~, CB599~, CB2385~, CB2900~, CB2902~, CB426~, CB2380~, CB2387~, CBUS1050~, CB2901~, CB2903~, CB959~, CB2383~ and CBUS1060~

~ when not fitted with vapor outlet and regulator

**Note 2:**

CB426, CB497, CB599, CB2380, CB2387, CBUS1050, CB2900, and CB2901 tanks may be used only with baskets with **Serial No. 8800 and up**.

CB959, CB2383, CBUS1060, and CB2903 tanks may be used only with basket part numbers 301-3FSH, 3013FWH, 301-4FSH, , 301-4FWH, , 301-5FSH, 301-5FWH, 301-6FSH, 301-6FWH, CBUS301-5, CB302, CBUS302, CB302-1, CBUS302-1, CB302-2, CBUS302-2, CB302-3, CBUS302-3, CB302-4, CBUS302-4, CB754, CB755, CB860, CB862, CBUS1056, CB3004, CB3022, CB3042, CB3084, CB3288, CBUS3319, CB8005, CB8006, CB8007, CB8008, CB8016, CB8017, CB8018, CB8019, and CB991 having **Serial No. 9300 and up**.

## **SECTION 9 - APPENDICES**

No change.

## **SECTION 10 - SUPPLEMENTS**

No change.

**LET US HELP YOU!**

In case that you have any suggestion, difficulty, problem or comment, please contact our technical department at:

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