CAMERON
BALLOONS

FAA APPROVED

BALLOON FLIGHT MANUAL SUPPLEMENT

FOR ALL CAMERON U.S. BALLOONS

MODELS 42,000 CU. FT. THROUGH 400,000 CU. FT.

REGISTRATION NUMBER _____

SERIAL NUMBER _____

This supplement must be attached to the FAA Approved Cameron Balloons Flight Manual when the aircraft is modified by the installation of a Lindstrand basket, burner and fuel tanks.

The information contained herein supplements or supersedes the basic manual only in those areas listed. For limitations, procedures and performance information not contained in this supplement, consult the model specific Cameron Balloons Flight Manual.

FAA APPROVED: R D M'Elroy
FOR Steven L. Lardinois
Manager, Systems and Flight Test
FAA Central Region

DATE: JUN 10 2014

Cameron Balloons US
P.O. Box 3672
Ann Arbor, Michigan 48106
Phone (734) 426-5525

LOG of REVISION

REV.	PAGES	DESCRIPTION	APPROVED BY	DATE
A	All	Flight Manual Supplement to Add Lindstrand Bottom End to Cameron Envelopes, All Volumes	RDM'Elroy	JUN 10 2014

*Approved by Manager, Chicago Aircraft Certification Office, Central Region

NOTE: Revised text is indicated by a vertical black line along left margin.

Cameron Balloons US
P.O. Box 3672
Ann Arbor, Michigan 48106
(734) 426-5525

This manual supplement describes the installation of a Lindstrand basket, burner and fuel tanks built under Type Certificates B82EU, B87EU or B00010CH to a Cameron Balloons model built under Type Certificates B1GL, B2GL, B3GL & B4GL. All bottom end equipment must be approved for use in a Lindstrand balloon.

Section 1: GENERAL No Change

Section 2: OPERATING LIMITATIONS

1. Add Section 2.0: MAINTENANCE

2.0.1: The maintenance and determination of airworthiness of the Envelope is in accordance with "*CAMERON BALLOONS INSTRUCTION FOR CONTINUED AIRWORTHINESS*", Issue 3 Revision F Dated November 01, 2012 or the most recent subsequent edition.

2.0.2: The maintenance and determination of airworthiness of the Lindstrand Basket, Burner, Fuel Tanks and Instruments is in accordance with the "*MANUAL FOR CONTINUED AIRWORTHINESS*" issue 1.9, dated July 18, 2012 or the most recent subsequent edition.

2.0.3: Any service bulletin or airworthiness directive issued by Lindstrand which involves any part used on this balloon shall be considered mandatory for compliance on this balloon according to the same terms that the service bulletin or airworthiness directive is required for compliance on a Lindstrand balloon. Airworthiness directives and service bulletins issued by Lindstrand and applying to an envelope are not applicable to this balloon.

2. Remove Section 2.3: BURNERS

3. Add Section 2.15 – APPROVED LINDSTRAND BURNERS

JETSTREAM SERIES 1

TYPE	DRAWING NUMBER
Single	BU-001-A-001
Super Single	BU-007-A-001
Double	BU-002-A-001
Double Plus CLF	BU-003-A-001
Triple	BU-004-A-001
Triple Plus CLF	BU-005-A-001
Quad	BU-006-A-001

JETSTREAM SERIES 2

TYPE	DRAWING NUMBER
Double	BU-008-A-001 and BU-008-A-002
Triple	BU-010-A-001 and BU-010-A-002
Quad	BU-012-A-001 and BU-012-A-002

4. Replace Section 2.4: MAXIMUM GROSS WEIGHT

2.4.1: The maximum gross weight of a balloon is determined by the volume of the envelope, the power of the burner, and the certification basis of the basket.

2.4.2 The **GONDOLA** part number and serial number are listed on the I.D. plate mounted in the basket.

2.4.3 ELIGIBLE GONDOLAS and MAXIMUM GROSS WEIGHTS

All models 42,000 cu. ft. through 100,000 cu. ft. Built To Type Certificates B1GL, B2GL, B3GL, B4GL
See Section 2.16 for Eligible Burners Per Envelope Volume
See Section 2.17 for Eligible Fuel Tanks

PART #	BASKET MAXIMUM GROSS WEIGHT (lbs./kgs.) PER ENVELOPE VOLUME (cu. ft.)									
SIZE (cm)	42,000	56,000	60,000	65,000	70,000	77,000	80,000	84,000	90,000	100,000
BA-001-A-001 110x115 Open	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	1989 lb. 904.1 kg.
BA-002-A-001 110x130 Open	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	2000 lb. 909.1 kg.
BA-002-A-002 110x130 Open	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	2000 lb. 909.1 kg.
BA-003-A-001 110x155 Open	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	2000 lb. 909.1 kg.
BA-003-A-002 110x155 Open	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	2000 lb. 909.1 kg.
BA-004-A-001 100x85 Open	840 lb. 381. kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.
BA-005-A-001 98x113 Open	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	1989 lb. 904.1 kg.
BA-006-A-001 100x125 Open	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	2000 lb. 909.1 kg.
BA-007-A-001 100x137 Open	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	2000 lb. 909.1 kg.
BA-008-A-001 122x145 Open	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	2000 lb. 909.1 kg.
BA-009-A-001 96x102 Open	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	1989 lb. 907.1 kg.
BA-010-A-001 122x125 Open	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	2000 lb. 909.1 kg.
BA-011-A-001 122x165 Open	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	2000 lb. 909.1 kg.
BA-011-A-002 110x155 Open	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	2000 lb. 909.1 kg.
BA-012-A-001 122x185 T	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	2000 lb. 909.1 kg.
BA-013-A-001 122x205 T	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	2000 lb. 909.1 kg.
BA-014-A-001 122x220 T	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	2000 lb. 909.1 kg.
BA-015-A-001 122x260 T	840 lb. 381. kg.	1120 lb. 509.1 kg.	1200 lb. 545.5 kg.	1300 lb. 590.9 kg.	1400 lb. 636.4 kg.	1540 lb. 700.0 kg.	1600 lb. 727.3 kg.	1680 lb. 763.6 kg.	1800 lb. 818.2 kg.	2000 lb. 909.1 kg.

All models 105,000 cu. ft. through 210,000 cu. ft. Built To Type Certificates B1GL, B2GL, B3GL, B4GL
See Section 2.16 for Eligible Burners Per Envelope Volume
See Section 2.17 for Eligible Fuel Tanks

PART # & Size (cm)	BASKET MAXIMUM GROSS WEIGHT (lbs./kgs.) PER ENVELOPE VOLUME (cu. ft.)								
	105,000	**120,000**	**133,000**	**140,000**	**145,000**	**150,000**	**160,000**	**180,000**	**210,000**
BA-001-A-001 110x115 Open	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.
BA-002-A-001 110x130 Open	2100 lb. 954.5 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.
BA-002-A-002 110x130 Open	2100 lb. 954.5 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.
BA-003-A-001 110x155 Open	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.
BA-003-A-002 110x155 Open	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.
BA-004-A-001 100x85 Open	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.
BA-005-A-001 98x113 Open	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.
BA-006-A-001 100x125 Open	2100 lb. 954.5 kg	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.
BA-007-A-001 100x137 Open	2100 lb. 954.5 kg	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.
BA-008-A-001 122x145 Open	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.
BA-009-A-001 96x102 Open	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.
BA-010-A-001 122x125 Open	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.
BA-011-A-001 122x165 Open	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.
BA-011-A-002 110x155 Open	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.
BA-012-A-001 122x185 T	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.
BA-013-A-001 122x205 T	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3586 lb. 1630 kg.	3586 lb. 1630 kg.
BA-014-A-001 122x220 T	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3586 lb. 1630 kg.	3586 lb. 1630 kg.
BA-015-A-001 122x260 T	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4180 lb. 1900 kg.
BA-020-A-001 152x205 T	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4180 lb. 1900 kg.
BA-021-A-001 152x240 T	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-022-A-001 152x270 T	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-023-A-001 152x260 TT	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-024-A-001 152x300 TT	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.

All models 105,000 cu. ft. through 210,000 cu. ft. Built To Type Certificates B1GL, B2GL, B3GL, B4GL
See Section 2.16 for Eligible Burners Per Envelope Volume
See Section 2.17 for Eligible Fuel Tanks

PART # & Size (cm)	BASKET MAXIMUM GROSS WEIGHT (lbs./kgs.) PER ENVELOPE VOLUME (cu. ft.)								
	105,000	**120,000**	**133,000**	**140,000**	**145,000**	**150,000**	**160,000**	**180,000**	**210,000**
BA-025-A-002 152x350 TT	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-026-A-001 152x390 TT	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-027-A-002 152x430 TT	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-028-A-002 152x300 T	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-029-A-001 152x325 TT	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-030-A-002 152x280 TT	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-031-A-001 140x270 TT	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-032-A-001 140x300 TT	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-033-A-001 140x390 TT	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-034-A-001 140x240 TT	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-035-A-001 140x240 T	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-036-A-001 140x270 T	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-037-A-001 140x340 TT	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4200 lb. 1909 kg.
BA-040-A-002 129x247 T	2100 lb. 954.5 kg	2400 lb. 1091 kg.	2660 lb. 1209 kg.	2800 lb. 1273 kg.	2900 lb. 1318 kg.	3000 lb. 1364 kg.	3200 lb. 1455 kg.	3600 lb. 1637 kg.	4180 lb. 1900 kg.

All models 225,000 cu. ft. through 400,000 cu. ft. Built To Type Certificates B1GL, B2GL, B3GL, B4GL
See Section 2.16 for Eligible Burners Per Envelope Volume
See Section 2.17 for Eligible Fuel Tanks

PART # & Size (cm)	BASKET MAXIMUM GROSS WEIGHT (lbs./kgs.) PER ENVELOPE VOLUME (cu. ft.)								
	225,000	**250,000**	**275,000**	**300,000**	**315,000**	**340,000**	**375,000**	**400,000**	
BA-001-A-001 110x115 Open	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	
BA-002-A-001 110x130 Open	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	
BA-002-A-002 110x130 Open	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	
BA-003-A-001 110x155 Open	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	
BA-003-A-002 110x155 Open	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	
BA-004-A-001 100x85 Open	924 lb. 420 kg	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 420 kg.	924 lb. 1420 kg.	
BA-005-A-001 98x113 Open	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	
BA-006-A-001 100x125 Open	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	
BA-007-A-001 100x137 Open	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	2320 lb. 1055 kg.	
BA-008-A-001 122x145 Open	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	
BA-009-A-001 96x102 Open	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	1989 lb. 904.1 kg.	
BA-010-A-001 122x125 Open	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	2640 lb. 1200 kg.	
BA-011-A-001 122x165 Open	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	
BA-011-A-002 110x155 Open	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	
BA-012-A-001 122x185 T	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	3190 lb. 1450 kg.	
BA-013-A-001 122x205 T	3586 lb. 1630 kg.	3586 lb. 1630 kg.	3586 lb. 1630 kg.	3586 lb. 1630 kg.	3586 lb. 1630 kg.	3586 lb. 1630 kg.	3586 lb. 1630 kg.	3586 lb. 1630 kg.	
BA-014-A-001 122x220 T	3586 lb. 1630 kg.	3586 lb. 1630 kg.	3586 lb. 1630 kg.	3586 lb. 1630 kg.	3586 lb. 1630 kg.	3586 lb. 1630 kg.	3586 lb. 1630 kg.	3586 lb. 1630 kg.	
BA-015-A-001 122x260 T	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	
BA-020-A-001 152x205 T	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	
BA-021-A-001 152x240 T	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	
BA-022-A-001 152x270 T	4500 lb. 2045 kg.	5000 lb. 2273 kg.	5500 lb. 2500 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	
BA-023-A-001 152x260 TT	4500 lb. 2045 kg.	4994 lb. 2270 kg.	4994 lb. 2270 kg.	4994 lb. 2270 kg.	4994 lb. 2270 kg.	4994 lb. 2270 kg.	4994 lb. 2270 kg.	4994 lb. 2270 kg.	
BA-024-A-001 152x300 TT	4500 lb. 2045 kg.	5000 lb. 2273 kg.	5500 lb. 2500 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	

All models 225,000 cu. ft. through 400,000 cu. ft. Built To Type Certificates B1GL, B2GL, B3GL, B4GL
See Section 2.16 for Eligible Burners Per Envelope Volume
See Section 2.17 for Eligible Fuel Tanks

PART # & Size (cm)	BASKET MAXIMUM GROSS WEIGHT (lbs./kgs.) PER ENVELOPE VOLUME (cu. ft.)								
	225,000	**250,000**	**275,000**	**300,000**	**315,000**	**340,000**	**375,000**	**400,000**	
BA-025-A-002 152x300 TT	4500 lb. 2045 kg.	5000 lb. 2273 kg.	5500 lb. 2500 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	
BA-026-A-001 152x390 TT	4500 lb. 2045 kg.	5000 lb. 2273 kg.	5500 lb. 2500 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	
BA-027-A-002 152x430 TT	4500 lb. 2045 kg.	5000 lb. 2273 kg.	5500 lb. 2500 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	
BA-028-A-002 152x300 T	4500 lb. 2045 kg.	5000 lb. 2273 kg.	5500 lb. 2500 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	
BA-029-A-001 152x325 TT	4500 lb. 2045 kg.	5000 lb. 2273 kg.	5500 lb. 2500 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	
BA-030-A-002 152x280 TT	4500 lb. 2045 kg.	5000 lb. 2273 kg.	5500 lb. 2500 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	
BA-031-A-001 140x270 TT	4500 lb. 2045 kg.	5000 lb. 2273 kg.	5500 lb. 2500 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	
BA-032-A-001 140x300 TT	4500 lb. 2045 kg.	5000 lb. 2273 kg.	5500 lb. 2500 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	
BA-033-A-001 140x390 TT	4500 lb. 2045 kg.	5000 lb. 2273 kg.	5500 lb. 2500 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	
BA-034-A-001 140x240 TT	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	
BA-035-A-001 140x240 T	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	4268 lb. 1940 kg.	
BA-036-A-001 140x270 T	4500 lb. 2045 kg.	5000 lb. 2273 kg.	5500 lb. 2500 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	
BA-037-A-001 140x340 TT	4500 lb. 2045 kg.	5000 lb. 2273 kg.	5500 lb. 2500 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	5940 lb. 2700 kg.	
BA-040-A-002 129x247 T	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	4180 lb. 1900 kg.	

5. Add Section 2.16 – ELIGIBLE LINDSTRAND BURNERS PER ENVELOPE VOLUME (cu. ft.)

ENVELOPE VOLUME (cu. ft.)	ELIGIBLE BURNER MODEL	PART NUMBER
42,000	Jetstream Series 1 Single Jetstream Series 1 Super Single	BU-001-A-001 or BU-007-A-001 or
56,000 **60,000** **65,000** **70,000** **77,000** **80,000** **84,000** **90,000** **100,000**	Jetstream Series 1 Single Jetstream Series 1 Super Single or Jetstream Series 1 Double Jetstream Series 1 Double w/CLF Jetstream Series 2 Double	BU-001-A-001 or BU-007-A-001 or BU-002-A-001 or BU-003-A-001 or BU-008-A-001 & BU-008-A-002
105,000 **120,000** **133,000** **140,000** **145,000** **150,000**	Jetstream Series 1 Double Jetstream Series 1 Double w/CLF Jetstream Series 2 Double	BU-002-A-001 or BU-003-A-001 or BU-008-A-001 & BU-008-A-002
160,000 **180,000**	Jetstream Series 1 Double Jetstream Series 1 Double w/CLF Jetstream Series 2 Double or Jetstream Series 1 Triple Jetstream series 1 Triple w/CLF or Jetstream Series 2 Triple	BU-002-A-001 or BU-003-A-001 or BU-008-A-001 & BU-008-A-002 BU-004-A-001 or BU-005-A-001 or BU-010-A-001, BU-010-A-002 & BU-010-A-003
210,000 **225,000** **275,000** **300,000** **315,000** **340,000** **375,000** **400,000**	Jetstream Series 1 Triple Jetstream series 1 Triple w/CLF Jetstream Series 2 Triple or Jetstream Series 1 Quad Jetstream Series 2 Quad	BU-004-A-001 or BU-005-A-001 or BU-010-A-001, BU-010-A-002 & BU-010-A-003 or BU-006-A-001 or BU-012-A-001, BU-012-A-002 & BU-012-A-003

6. Add Section 2.17 – APPROVED LINDSTRAND FUEL TANKS

FUEL TANKS ARE APPROVED IN ANY CONFIGURATION & COMBINATION:

TYPE	DRAWING NUMBER
Mini Worthington	
Worthington (10 gal)	CY-010-A-001
V20 (10 gal)	CY-020-A-001
V30 (15 gal)	CY-030-A-001
V40 (20 gal)	CY-040-A-001
T30 (15 gal)	CY-050-A-001

The Mini Worthington cylinder is only for use as an independent vapor supply for use with burners that are equipped with vapor pilot lights.

SECTION 3: EMERGENCY PROCEDURES

1. SUBSTITUTE Section 3.13: FAILURE OF PILOT FLAME

(a) Check that the valves on the cylinder and burner (if fitted) are open.

(b) Check that the pilot light hoses are properly connected to the cylinder.

(c) Re-light the pilot light.

(d) If both pilot lights fail and cannot be re-lit, proceed as follows:

IF THE BURNER HAS A LIQUID FIRE:

90° Ball valve type:

Open the liquid fire valve slightly. Ignite the fuel from the liquid fire valve with an alternative ignition source. Open the liquid fire valve until a 3-foot (1m) high flame is achieved. Use this as the pilot light for the main burner until an emergency landing can be safely completed.

Toggle handle valve type:

Open the liquid fire valve slightly. Ignite the fuel from the liquid fire valve with an alternative ignition source. Open the liquid fire valve fully. Adjust the tank valve supplying fuel to the liquid fire valve until a flame of 5 feet (1.5m) in length is achieved. Use the alternative fuel system or burner to supply fuel to the main burner.

IF NOT: USE THE SECOND BURNER AS A PILOT LIGHT

Burners with 90° Ball – type blast valves with no spring return system:

Crack one blast valve partially open and ignite the propane directly on the main jets with an alternative ignition source. Adjust the valve to give a flame of approximately 1 ft. (30 cm) high. Leave this flame to act as a pilot light. Fly on the other burner and land as soon as possible.

Burners with Rego – type blast valves:

Crack one blast valve partially open and ignite the propane directly on the main jets with an alternative ignition source. Open blast valve fully, then slowly close the cylinder valve until only approximately a 1 ft. (30 cm) flame remains. Leave the flame at this stage to act as a pilot light and fly on the alternative burner until an emergency landing can be safely completed.

NOTE: Continuous operation of a propane valve open at very low settings will result in some freezing of the valve and is only satisfactory for short periods of time.

LAND AS SOON AS POSSIBLE.

2. ADD SECTION 3.21 – LOSS OF MAIN BURNER

Change to the alternative fuel path or burner. If one burner or fuel path fails, fly on the alternative side or unit and land as soon as possible.

If both burners or fuel paths malfunction, check that the fuel cylinders are not empty, are properly connected and are turned on. If there is still no fuel flow try another cylinder. If the fault cannot be rectified, prepare for a heavy landing. Follow the emergency landing procedure.

The balloon can be flown entirely on the liquid fire burner if the other burner fails. This unit is less powerful, but is sufficient for emergency operation until a landing can be completed.

SECTION 4: NORMAL PROCEDURES

1. ADD SECTION 4.1.1 – LOG BOOK ENTRIES

Before EACH flight in which the Lindstrand basket, burners and fuel tanks have been switched from the Cameron basket, burners and fuel tanks, the log book must show the installation of the basket, burners and fuel tanks by model number and serial number. If the balloon is flown regularly with the same basket, burner and fuel tanks, the entry need be made once, and each subsequent switch with the same equipment need say only "equipped as per entry on (DATE)" referring back to date entered for first installation.

2. REPLACE SECTION 4.2.4 – ASSEMBLY OF BALLOON

The various sub-components of the balloon must be assembled in the correct orientation to each other. To achieve this, some parts have distinguishing features, as below.

Step 1: Slide the four nylon rods into the burner frame socket (fig. 4.2.4.1a) and stand the burner on the rods. Lift the burner and rod assembly, by the rods, and place the rods into the sockets on top of the basket. The orientation is correct if the pressure gauges on the burner are the right way up when the basket is tipped over for inflation. The assembly should look like fig. 4.2.4.1 b). In a T-partition basket, the burner is usually offset towards the pilot compartment at the right side.

The basket suspension wires are attached to the burner frame by inserting the eye of the wire into the inverted U-shaped bracket on the burner frame. A carabiner is then passed through the hole in the bracket, through the thimble of the wire and out the other side of the bracket. Repeat this procedure for each corner. On large baskets there are two suspension wires per corner. If two wires per corner are used, the second wire should be placed against the side of the U-shaped bracket that is closest to the short end of the basket. The carabiner is then passed through the hole in the bracket, through the thimble of the wire, out the other side of the bracket and then through the second thimble. Make certain that after assembly the carabiner gate collars are screwed down. The proper method to insure the gate collars are satisfactorily closed is to screw the collar all the way down and then unscrew the collar 1/4 turn out.

Step 2: Now fit the cylinders. When burners have vapor pilots the orientation of the master cylinders is important to prevent the pilot light from freezing on inflation. In inflation attitude, the basket laid onto its side, the stainless steel cylinders must be orientated so the fixed liquid level gauge (max fill valve) is lower most. On Worthington cylinders the two round holes in the top collar will be facing downward.

When burners with liquid pilot lights are used the orientation of the fuel tanks is not important.

Note that all cylinders should be fixed with two straps. On all Lindstrand balloons, the minimum requirement for flight is two full cylinders which are capable of supplying fuel to the pilot light of the burner used.

Step 3: Connect the fuel tanks as follows: First ensure that the burner and cylinder valves are closed. Now fasten the quick connectors (liquid and vapor, if fitted). Check the connection for leaks by opening each cylinder valve. If there are no leaks, turn on the pilot valve at the burner and ignite the pilot light. If the pilot light is functioning properly, operate the main blast valve to insure proper operation. Operate each function of the burner one at a time i.e. liquid fire, cross over etc. After a successful test, close all cylinder valves and vent the remaining fuel through the burner.

Repeat this test for each coil and each cylinder.

Step 4: If covers are used over the nylon rods they can be fitted now. Pilot and liquid hoses can be covered. The liquid hoses may be strapped to the outside of the covers to permit easy cylinder changes in flight. At this stage remember that the basket wires should be inside the rod covers. See figs. 4.2.4.1b and 4.2.4.1a for the finished assembly.

Step 5: Passenger briefing (with the basket upright): Show passenger(s) various controls and their purposes. Give the safety briefing – how to climb in, what to hold onto, etc. The briefing is done at this stage because there is no noise, no rush etc.

3. REMOVE SECTION 4.2.5 - CONNECT AND INSPECT FUEL SYSTEM

4. ADD SECTION 4.2.6.1 – ENVELOPE CONNECTION – LINDSTRAND

Connection of envelope to assembled basket:

Lay the basket on its side with the burner pointing downwind. Stretch out the mouth of the envelope. Group the flying wires as follows:

8 Cable Model	12 Cable Model
Cables # 8 & 1 Upper Right Carabiner	Cables # 11, 12 & 1 Upper Right Carabiner
Cables # 2 & 3 Lower Right Carabiner	Cables # 2, 3, & 4 Lower Right Carabiner
Cables # 4 & 5 Lower Left Carabiner	Cables # 5, 6 & 7 Lower Left Carabiner
Cables # 6 & 7 Upper Left Carabiner	Cables # 8, 9 & 10 Upper Left Carabiner
16 Cable Model	**20 Cable Model**
Cables # 14, 15, 16 & 1 Upper Right Carabiner	Cables # 17, 18, 19, 20 & 1 Upper Right Carabiner
Cables # 2, 3, 4& 5 Lower Right Carabiner	Cables # 2, 3, 4, 5 & 6 Lower Right Carabiner
Cables # 6, 7, 8 & 9 Lower Left Carabiner	Cables # 7, 8, 9, 10 & 12 Lower Left Carabiner
Cables # 10, 11, 12 & 13 Upper Left Carabiner	Cables # 13, 14, 15 & 16 Upper Left Carabiner
24 Cable Model	**12 V'd Cable Model**
Cables # 20, 21, 22, 23, 24 & 1 Upper Right Carabiner	Cables # 20 & 21, 22 & 23, 24 & 1 Upper Right Carabiner
Cables # 2, 3, 4, 5, 6 & 7 Lower Right Carabiner	Cables # 2 & 3, 4 & 5, 6 & 7 Lower Right Carabiner
Cables # 8, 9, 10, 11, 12 & 13 Lower Left Carabiner	Cables # 8 & 9, 10 & 11, 12 & 13 Lower Left Carabiner
Cables # 14, 15, 16, 17, 18 & 19 Upper Left Carabiner	Cables # 14 & 15, 16 & 17, 18 & 19 Upper Left Carabiner

As viewed from behind the burner with the gondola on its side ready for inflation and looking into the envelope mouth.

One or two carabiners may be used in each corner. Connect the flying wires or flying wires carabiner to the carabiner that is already attaching the burner frame and basket wire, as shown in fig. 4.2.4.1a. Care should be taken to see that the flying wires are not crossed or twisted at this point. Screw the carabiner gates closed, and then back off 1/4 turn.

Do not lay out the complete envelope before connecting the flying wires to the basket.

Ensure that the restraint system (if used) is fitted before the envelope is pulled out.

5. ADD SECTION 4.13 – FUEL PRESSURIZATION

Burner output is dependent upon the pressure of the fuel. The operating pressure range of the burner is 60-225 psi (4-15 bar). Flying with a fuel pressure below 75 psi requires caution. It is advisable to increase fuel pressures at this level by one of several methods.

4.13.1 CYLINDER HEATING.

Cylinders may be stored in a warm area to ensure adequate fuel pressure. Additionally, an approved fuel cylinder jacket may be installed to warm the fuel.

CAUTION: Heating fuel cylinders must not result in an increase in temperature greater than 104°F (40°C) or a cylinder pressure of more than 225psi (15 bar).

4.13.2 INERT GAS PRESSURIZATION (NITROGEN FOR EXAMPLE).

Ground Based Pressurization Procedures:

a) Ensure all valves on the fuel cylinder and inert gas cylinder are closed and the inert gas regulator adjustment is turned out fully.

b) Connect the supply line from the inert gas regulator to the liquid valve of the fuel cylinder.

c) Open the inert gas valve. Assure there are no leaks and adequate pressure.

d) Turn the inert gas regulator in until the desired pressure is indicated on the gauge. The recommended pressure is 150 psi (10 bar). The never exceed pressure is 203 psi (14 bar).

e) Open the liquid valve on the fuel cylinder. It should be possible to hear the gas bubbling through the fuel. This process should be continued for several minutes to assure pressure stabilization.

f) Close the inert gas supply valve.

g) Close the liquid valve and disconnect the supply line from the liquid valve.

h) Bleed the inert gas supply line.

Onboard Pressurization Procedures:

The onboard high pressure inert gas cylinder is filled directly from a high pressure supply cylinder.

High Pressure Cylinder Filling procedures:

a) Assure that there is sufficient contents in the supply cylinder.

b) Assure that both cylinder valves are closed.

c) Remove the regulator from the onboard cylinder.

d) Attach the filling hose with bleed valve to both cylinders.

e) Open the supply cylinder valve and check for leaks.

f) Open the valve on the onboard cylinder. Filling occurs by gas pressurization. When there is no longer any flow noise close both valves and bleed the fill hose.

Onboard Cylinder Filling Procedures:

Onboard pressurization systems feed the inert gas, via a manifold, through the vapor withdrawal valve on the fuel cylinder. The filling procedures are:

a) Attach the regulator to the onboard inert gas cylinder and check for leaks.

b) Connect the supply line from the inert gas regulator to the vapor valve manifold of the fuel cylinder.

c) Open the inert gas cylinder valve.

d) Turn the inert gas regulator in until the desired pressure is indicated on the gauge. The recommended pressure is 150 psi (10 bar). The never exceed pressure is 203 psi (14 bar).

e) Open the vapor valve on the fuel cylinder. It should be possible to hear the gas bubbling through the fuel.

f) When all the liquid fuel is used in this onboard cylinder. Close the vapor valve and the inert gas cylinder valve.

g) Bleed the inert gas supply line and disconnect the supply line from the vapor valve.

h) Follow the same procedures for the next onboard cylinder to be used.

4.13.3 FILLING FLIGHT CYLINDERS

Usually, cylinders which have been pressurized with inert gas may be re-fueled normally. If a cylinder still contains a high level of pressurization and the bulk fuel is not pumped, the pressurized cylinder will force all of its remaining fuel into the bulk tank before it starts to fill. This increases the re-fueling time. To avoid this situation, before filling, open the fixed liquid level gauge for several minutes to relieve the pressure in the cylinder.

4.13.4 VAPOR PILOT LIGHTS AND INERT GAS PRESSURIZATION.

Burners which are fitted with vapor pilot lights must not use inert gas pressurized cylinders to supply vapor to the pilot lights. If all cylinders must be pressurized with inert gas, a Worthington mini cylinder may be used to supply vapor to the vapor pilot lights. This does not apply to burners with liquid pilot lights.

4.13.5 PRESSURIZED CYLINDER STORAGE.

If cylinders have been pressurized and are not used in flight, it is recommended that the pressure be removed from the cylinder before storage. This may be done by opening the fixed liquid level gauge for 3 to 4 minutes prior to storage. De-pressurization must be done in an open and well ventilated area.

SECTION 5: PERFORMANCE No Change

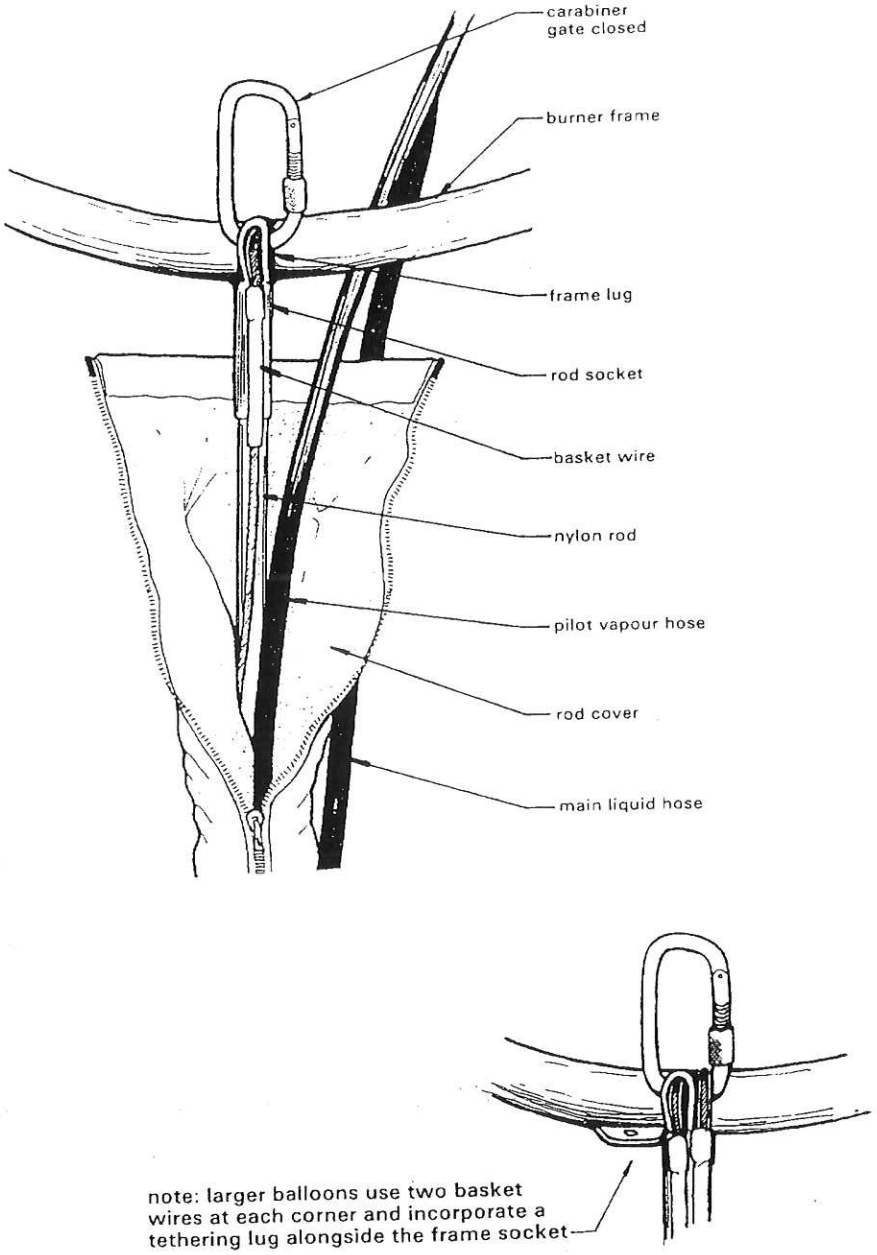

Figure 4.2.4.1a

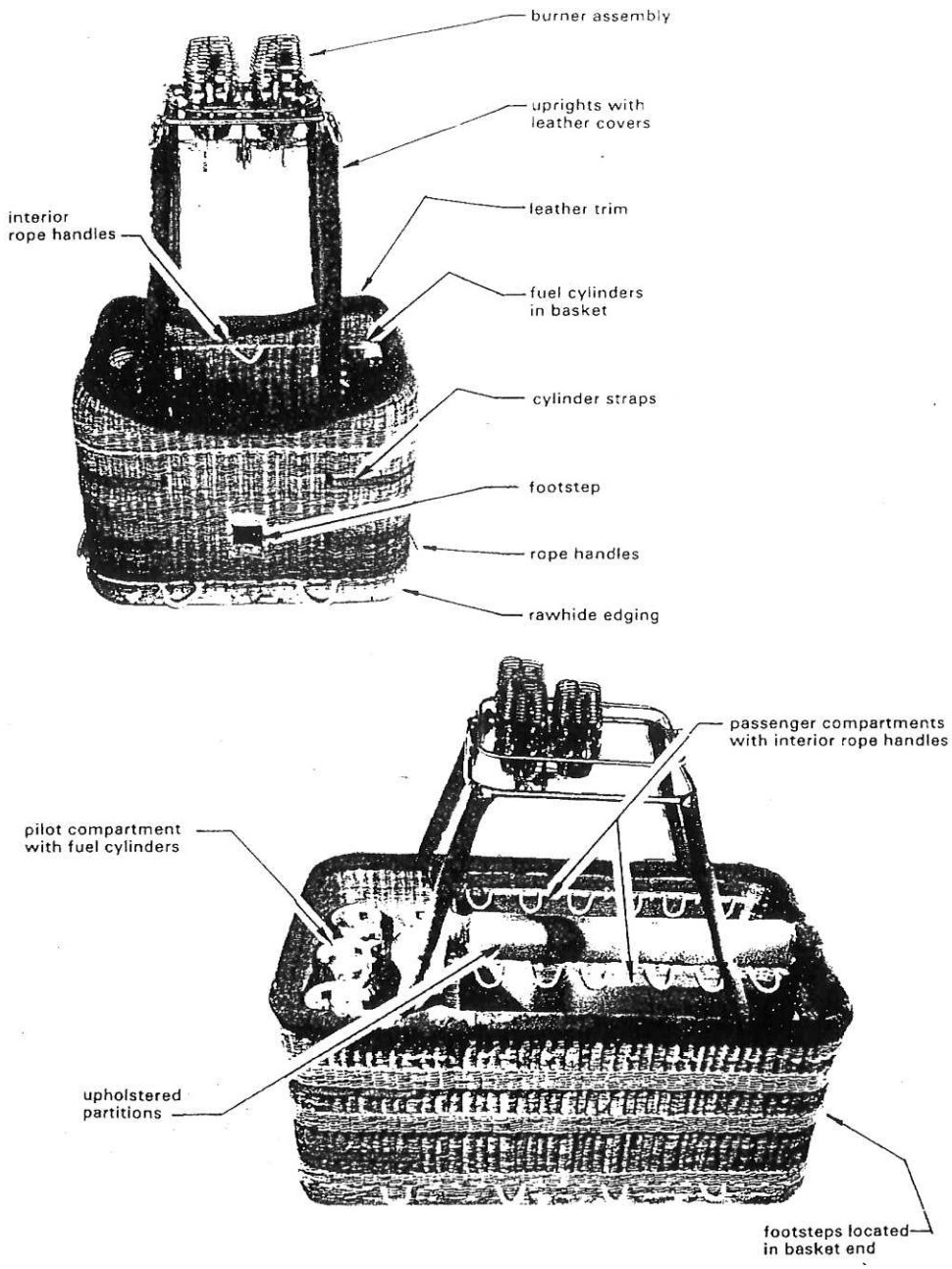

Figure 4.2.4.1b

SECTION 6: WEIGHT AND EQUIPMENT

1. ADD SECTION 6.1 – WEIGHT & EQUIPMENT – LINDSTRAND BOTTOM END

Cameron Balloons US Model with Lindstrand Bottom End

CAMERON ENVELOPE with (optional) thermistor wire, scoop or skirt, crown line, snaplinks (carabiners) and flying wires

Part Number _____ _____Lbs. or

Serial Number _____ _____Kgs.

ENVELOPE CARRYING BAG _____Lbs. or

_____Kgs.

LINDSTRAND BURNER with fuel hoses and snaplinks (carabiners)

Drawing Number _____ _____Lbs. or

Serial Number _____ _____Kgs.

LINDSTRAND BASKET with suspension cables, poles, covers, instruments, fire extinguisher, manifolds and documents in case

Drawing Number _____ _____Lbs. or

Serial Number _____ _____Kgs.

LINDSTRAND FUEL TANKS with padded covers

Serial Number	Drawing Number	Pounds	Kilograms
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

THIS PAGE INTENTIONALLY BLANK