

The technical content of this document is approved under the authority of DOA nr. EASA.21J.140 (C708 Iss. 1)

8.49 LIGHTWEIGHT ENVELOPE COMPONENTS

8.49.1 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 3 of this supplement consists of four pages.

Supplement 7.49 (two pages) to Maintenance Manual Issue 10 is required to ensure continued airworthiness.

8.49.2 LIMITATIONS

The CB-8663-0009 “1-tonne” karabiner must only be used with envelopes of 77,500 cu ft or less. The CB-8663-0009 “1-tonne” karabiner must not be used for tethering.

8.49.2.9 WEIGHT RANGE

- 5. Where lightweight loadtapes are fitted (Mod C647) the maximum take-off mass must be reduced in accordance with Table 8.49.1

Table 8.49.1: Envelope Weight Limits And Volumes

Variant	Volume		Standard MTOM		Reduced MTOM		MLM		FAI Class. AX
	ft ³	m ³	kg	lb	kg	lb	kg	lb	
O-77	77 500	2195	610	1345	499	1100	-	-	7

8.49.3 EMERGENCY PROCEDURES

No change.

8.49.4 NORMAL PROCEDURES

8.49.4.2.3 Burner Rigging

Table 1: Karabiner Specifications

Part No.	Rating	Identification Markings
CB-8663-0009	1.6 tonne	AustriAlpin Type Oval III

8.49.5 WEIGHT CALCULATIONS

No change.

8.49.6.2 Envelope**8.49.6.2.17 Lightweight Loadtapes**

The following envelopes can be fitted with lightweight loadtapes. Where lightweight loadtapes are fitted to the Cameron O-77, the MTOM must be reduced in accordance with Table 8.49.1

Envelope Variant	Envelope Volumes
Cameron A-Type	A-105
Cameron C-Type	C-70
Cameron N-Type	N-31, N-42, N-56, N-65, N-77, N-90, N-100, N-105
Cameron O-Type	O-26, O-31, O-42, O-56, O-65, O-77
Cameron Z-Type	Z-31, Z-42, Z-56, Z-65, Z-69, Z-77, Z-90, Z-105

8.49.6.2.18 Lightweight Flying Cables

The following envelopes can be fitted with Ø3mm flying cables in place of standard Ø4mm assemblies. Limitations are not affected.

Envelope Variant	Envelope Volumes
Cameron A-Type	A-105
Cameron C-Type	C-60, C-70, C-80, C-90, C-100
Cameron N-Type	N-31, N-42, N-56, N-65, N-77, N-90, N-100, N-105
Cameron O-Type	O-26, O-31, O-42, O-56, O-77, O-84, O-90, O-105
Cameron V-Type	V-31, V-42, V-56, V-77, V-90
Cameron Z-Type	Z-31, Z-42, Z-56, Z-65, Z-69, Z-77, Z-90, Z-105

The following envelopes can be fitted with Ø2mm flying cables in place of standard Ø4mm assemblies. Limitations are not affected. N-31, O-26, O-31, Z-31

8.49.6.2.19 Lightweight Fabric

Lightweight fabric is optional on all Cameron envelopes and can be used in combination with other standard weight fabrics (e.g. Hyperlast, Ripstop).

Lightweight silicone coated fabrics are not used in the first two rows of panels above the Nomex of horizontally cut balloons (A, O, V & Z-types) or the bottom panel of vertically cut balloons (C and Z-types).

8.49.7 BALLOON MAINTENANCE, HANDLING AND CARE

No change.

8.49.9 EQUIPMENT LIST

No change.

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