

The technical content of this document is approved under the authority of DOA ref. UK.21J.0140 (C935)

7.33 SKY EQUIPMENT

7.33.1 GENERAL INFORMATION

This supplement shall be inserted in the Maintenance Manual, in Section 7: 'Supplements' with the revisions record sheet amended accordingly.

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

Issue 1 of this supplement consists of four pages.

7.33.1.6 Identification of systems

All major components of Sky hot air balloons carry their own serial numbers. These are located as follows:

- Envelope:** Engraved on the crown ring and on an identification plate, which is fixed to the bottom rim tape of the envelope.
- Basket:** The basket Serial number is engraved on one of the support rod sockets.
- Burner:** Burners are assembled from individual left- and right-handed units fitted into a frame. Each unit has its own data plate and serial number. The serial number for the assembled unit is engraved on the bracket joining the units together.
- Burner Frame:** The burner frame has its serial number engraved on one of the support rod sockets.
- Fuel cylinders:** Fuel cylinders carry a data plate on the lower guard ring.

7.33.2 ENVELOPE REPAIRS

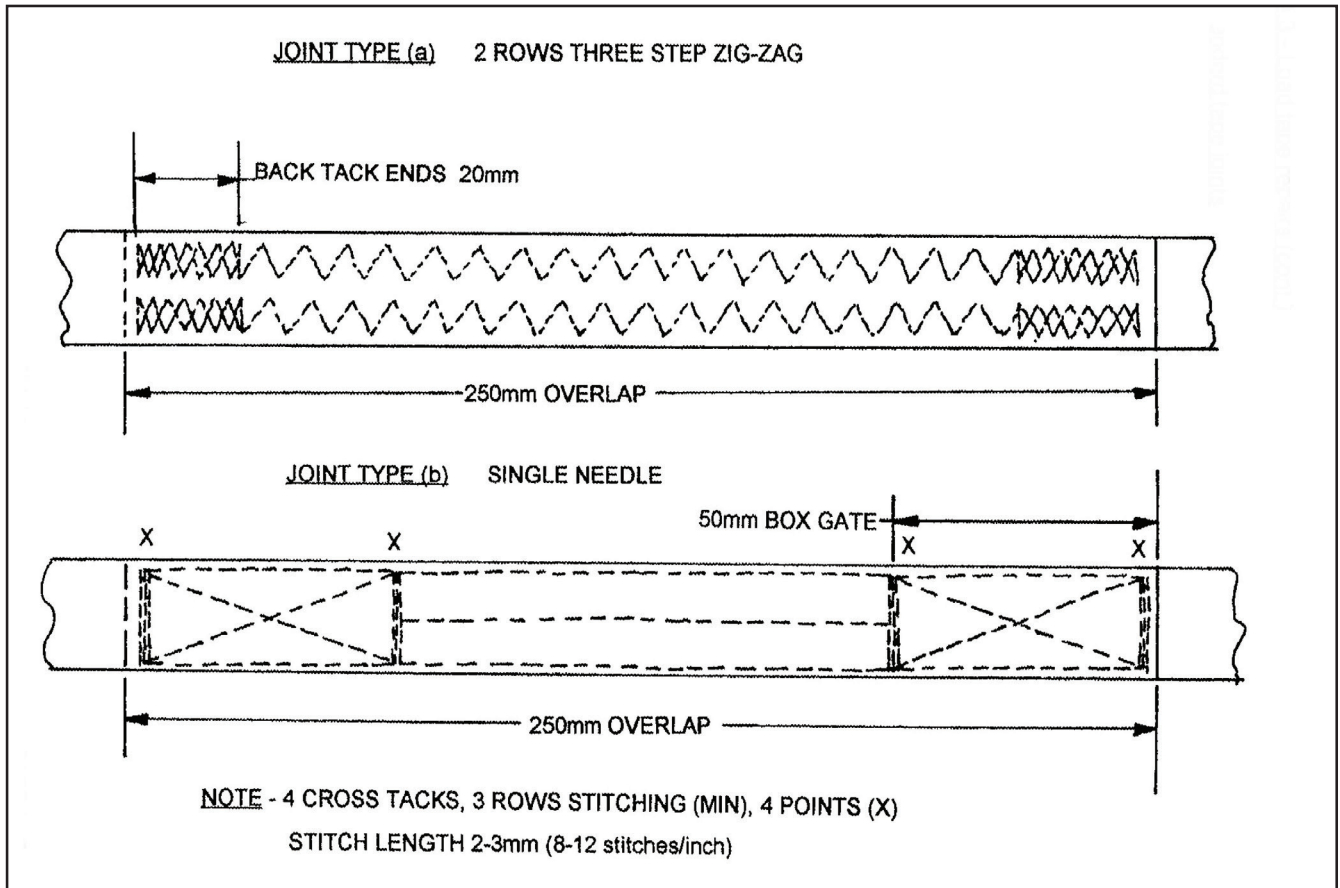
7.33.2.1.2 Envelope Sewing Thread

Polyester thread is the preferred thread for repair of Sky balloons. Metric size 40, 3-strand continuous filament.

Nylon sewing thread to the specification in section 2.1.2 is an acceptable alternative for repair. Mixing Nylon and Polyester thread on needle and bobbin is not permitted.

7.33.2.3 LOAD TAPE REPAIRS

Load tapes should be stitched as described in section 2.3.3 unless an existing turnback at the crown or base of the balloon is being re-sewn when the joint shown in Fig 1 may be used. If a 3-step zig-Zag machine is available joint type (a) is preferred.



▲ Fig 1: Stitch pattern for repair of existing turnbacks

7.33.2.3.2 Horizontal Load tapes

Cameron Load Tape Specifications for envelope repair are as follows:

- Top rim tape:** 25mm tubular tape, part number CE2025-1001 (White) or CE-2025-2103 (Black).
- Bottom rim tape:** 45mm wide flat tape, part number CE-2045-1001 (White) or CE-2045-1002 (Black).
- Horizontal tapes:** 20mm wide flat tape, part number CE-2020-5001 (White) or CE-2020-5011 (Black).

7.33.2.3.3 Vertical Load tapes

- Up to 77:** 20mm flat tape part number CE-2020-5001 (White) or CE-2020-5011 (Black).

90-160: 20mm tubular tape part number CE-2020-1101 (White) or CE-2020-2101 (Black).

160-280: 25mm tubular tape, part number CE-2025-1101 (White) or CE-2025-2103 (Black).

300-317: 25 mm heavyweight tape CE-2025-3001 - White

7.33.2.4 CONTROL LINES

Cameron cords of similar specification may be used for repair of the envelope.

Parachute retaining and shroud lines: 3mm yellow Kevlar, CE-4103-0001.

Parachute Operating line: 8mm Kevlar Red / White, CE-4108-0005.

Rotation Vent Lines: 6 mm Turning Vent line, CE-4106-0002 (Green) or CE-4106-0001 (Black).

Crown Line: 10mm Polyester line, CE-4110-0002 (White) or CE-4110-0001 (Black)

7.33.2.5 FLYING CABLES

Damaged flying cables should be replaced by unpicking and re-sewing the vertical tape to the flying cable turnback using the stitch pattern described in Section 7.33.2.3

Replacement wires, if made shorter than the original wire by 37mm, may be fitted to the envelope using a quick link as described in section 2.5.1.

The length and diameter of damaged flying cables should be carefully measured and replacement wires ordered from Cameron Balloons Ltd.

7.33.3 BASKET REPAIRS

No change

7.33.4 FUEL SYSTEM REPAIRS

No change

7.33.5.4 SKY BURNERS

See Sky Balloon Maintenance Manual Issue 1.5 (Available at www.cameronballoons.co.uk)

NOTE: A mandatory AD (CAA 003-05-2000) applies to Sky burners. Compliance Requirements are detailed in Cameron Balloons SB10. This bulletin is available available at www.cameronballoons.co.uk

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