

Service Instruction



1. General

(a) No.:	SI06
(b) Revision / Date	A/September 2013
(b) Title:	Addition of Spider Tapes to Concept Envelopes
(c) Description:	Information additional to Cameron HABMM issue 10
(d) Applicability:	EASA.BA.013, C-Type Envelopes
(e) Effectivity:	All C/N

Note: Applicability= All types and variants to which the change can be applied.
Effectivity= Actual CN or group of CN's to which the bulletin has been/will be applied.

2. Accomplishment Instructions

- 1) Locate the parachute aperture. Mark the position for the spider tape on the outside of each crown tape (ref 'Dim X' on Fig 1). Measure from the centre of the parachute edge tape.
- 2) Mark up the spider tape before sewing to the crown tapes. On a 16m length of load tape to the correct specification (ref 'Parts' in section 3 below) make a mark 51cm from the end of the tape.
C-60, C-70, C-80 and C-90 envelopes have twelve crown tapes and C-100 envelope sixteen. Therefore make a further twelve or sixteen marks on the load tape (ref 'Dim Y' on Fig 1). Cut and heat seal the end of load tape at the last mark.
- 3) Place the mark 51cm from the end of the spider tape over the mark on any crown tapes. Make sure the tapes cross a 90° and the spider tape is on top of the crown tape. Then sew the tapes together using a single needle box joint (ref Section 2.3.4.4 - Hot Air Balloon Maintenance Manual issue 10). Repeat for all the crown tapes on the envelope, making sure that the spider tape is not twisted between adjacent crown tapes.
- 4) Make the joint in the spider tape by overlapping the final 50cm of the two free ends and sewing together with a single needle gated box. (ref Fig 2 below)
If a 3 Step zigzag sewing machine is available then the single needle gated box may be replaced with a standard joint 50cm long (ref Section 2.3.3.1 - Hot Air Balloon Maintenance Manual issue 10).
- 5) Write the following statement in the balloon log book "Envelope Modified in accordance with Mod C611"

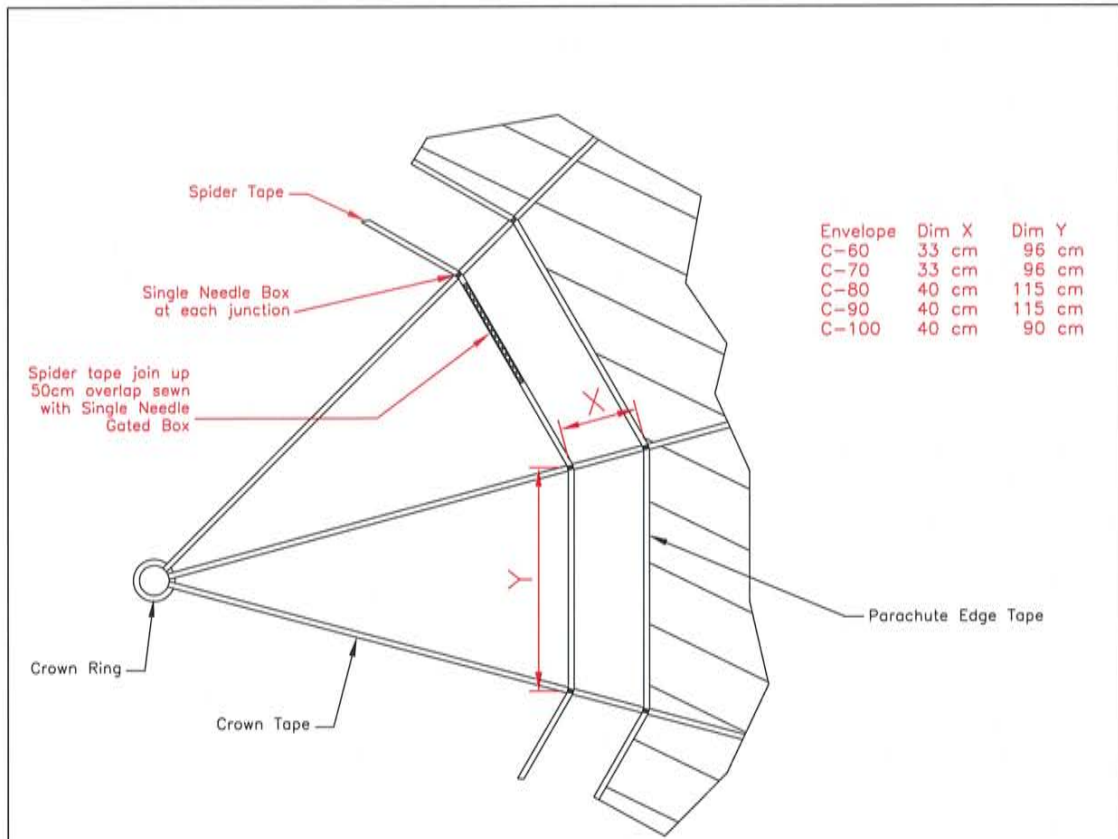
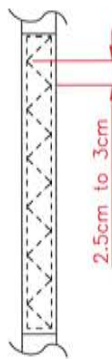


Figure 1



STEP ONE
 Sew box as shown.
 Sew along five sides,
 starting and finishing
 by sewing across the
 tape



STEP TWO
 Sew one row of
 Zig-Zags along the
 box, then sew
 across the
 tape



STEP THREE
 Sew the other row of
 Zig-Zags as a mirror
 of the first.
 Then back tack across
 the tape.

Fig 2:- Single Needle Gated Box

3. Materials

Tools :- Hot Air Balloon Maintenance Manual Issue 10.
Sewing Machine that can meet the stitching specification detailed in paragraph 2.1.1 of Hot Air Balloon Maintenance Manual Issue 10. If a twin needle machine is being used then remove one needle and associated thread.

Tape Measure, Silver or Gold Marker, Scissors, Lighter or hot knife.

If available a 3-Step zigzag sewing machine.

Consumable Items : Envelope thread - (ref- Hot Air Balloon Maintenance Manual iss 10)

Parts: Load tape to the same specification as the vertical load tapes. (ref Appendix 4 to the Hot Air Balloon Maintenance Manual issue 10)

4. Other Publications Affected NONE

5. Remarks NONE

Compiled by:

S.A. Cocker

Notes:

Date: 17/09/2013 Name: S.A. Cocker

6. Design Organisation Approval

Approval Statement

I hereby confirm that these instructions are in compliance with all the applicable airworthiness requirements. The technical content of this document is approved under the authority of DOA nr EASA.21J.140

Signed, for and on behalf of Cameron Balloons Ltd.

S.E. Bowler

Head of Design

Date: 02-10-2013 Name:

