

Service Instruction

**CAMERON
BALLOONS**

1. General

(a) No.:	02
(b) Revision / Date	22-01-2008
(b) Title:	Conversion of RDS rip line gearing from 2:1 to 3:1 Modification C502
(c) Description:	Increase in gearing of the RDS Rip line by introduction of additional pulley and replacement of the lower rip line.
(d) Applicability:	Envelopes with a volume of 180,000 cu.ft and larger with RDS.
(e) Effectivity:	All applicable CN

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.

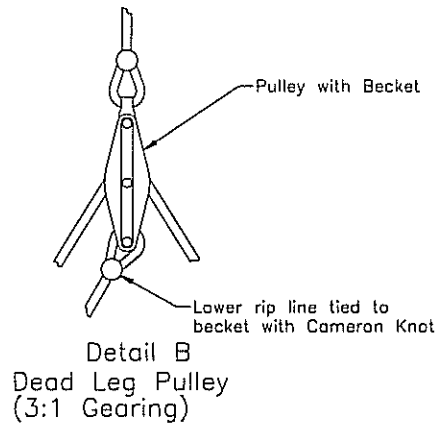
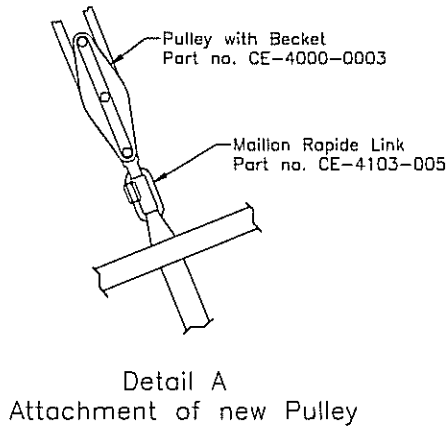
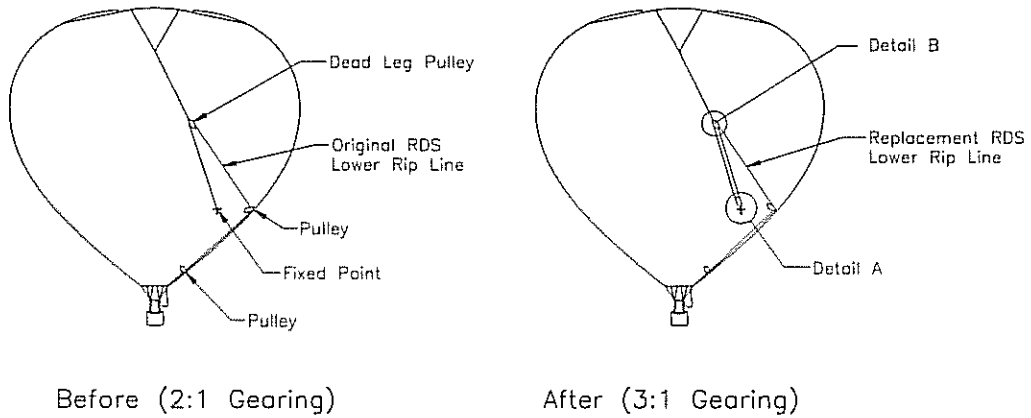
2. Accomplishment Instructions

- 1) Locate the fixed point of rip-line system. Refer to Fig 1
- 2) Using the Maillon Rapide link attach the pulley to the envelope rigging loop at the fixed point ref Detail A. Apply the Loctite 270 to the screw thread of the link, and use pliers to fully tighten. Do not untie the lower rip line at this point.
- 3) Install the replacement lower rip line. Untie the metal clip from the free end of the original lower rip line and then tie the replacement line to it. Pull the original line through the envelope, untying and retying the knot between the replacement and original line at each pulley, allowing the rope ends to pass through. Keep pulling until the knot joining the replacement and original line is at the newly installed pulley. Untie the knot and thread the replacement line through the pulley, then follow the lower rip line back on its self and tie to Dead Leg Pulley ref Detail B. The original lower rip line is then untied and removed. Retie the metal clip to the free end of the lower rip line. All knots to be the Cameron Knot (ref Section 2.7 of the Cameron Balloons Maintenance Manual iss 10 or subsequent)
- 4) The Loctite needs time to cure. Wait 6 hours before the next stage.
- 5) An operational check of the RDS is required before the next flight. Inflate the envelope as normal. When the envelope is fully inflated visually check the rip line for interference with other lines. Check the amount of excess line in the basket, there should be between 6 to 8 m when measured from the burner frame. With the envelopes loaded to a representative flight mass perform the RDS Pre-Take-Off checks detailed in the flight manual. The operating load should neither be too light or heavy. If there is any doubt about the operating load then check using a spring balance. The permitted range for this load is 11 kg to 34 kg.

Note: It is easier to perform stages 1 to 3 by cold inflating the envelope.

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Fig 1



3. Materials

Tools : Pliers

Consumable Items : Loctite 270 Threadlock

- Parts : CE-4108-0001 Red 8mm Kevlar Cored line
 Contact Cameron Balloons Ltd for length required
 CE-4000-0003 Pulley with Becket
 CE-4103-0005 5mm Maillon Rapide Link

4. Other Publications Affected None

5. Remarks

Compiled by:

Steph A Cocker

Notes:

Date: 22/01/2002

Name: **Steph A Cocker**

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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.



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Head of Design Organisation / Airworthiness



Date: 24-01-08

Name: