

Service Bulletin 27



1. General	
(a) Service Bulletin No.	27
(b) Revision / Date	1 / August 2021
(b) Title:	Propane hoses: Additional Calendar Life Limitation
(c) Description:	Introduction of 10-year service life for LPG hose assemblies in addition to annual/100 hr inspection requirements.
(d) Applicability:	Manufacturers: Altisph'air, Ballons Libert sprl, Ballonservice & Technik, Balóny Kubíček spol. s.r.o., Cameron Balloons Ltd., Lindstrand Hot Air Balloons Ltd., Llopis Balloons, Schroeder Fire Balloons GmbH, Ultramagic S.A. TCDS Numbers: United Kingdom UK.TC.BA.00001, UK.TC.BA.00002, UK.TC.BA.00003, UK.TC.BA.00014, BAS3, BAS7. Austria BA 009-ACG. EASA.BA.003, EASA.BA.010, EASA.BA.012, EASA.BA.013, EASA.BA.014, EASA.BA.015, EASA.BA.016, EASA.BA.019, EASA.BA.021, EASA.BA.022, EASA.BA.025, EASA.BA.26, EASA.BA.028, EASA.BA.30, EASA.BA.119, EASA.BA.517, EASA.IM.BA.110 France No.186.
(e) Effectivity:	All balloons and airships where Cameron LPG hoses are fitted. Cameron includes Thunder, Colt, Thunder and Colt, Sky and Lindstrand Hot Air Balloons.
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. Background	
<p>The degradation of rubber hoses with time is well-documented. The effects of environmental damage, radiant heat (hardening, brittleness, reduction in tensile strength) and usage (fatigue, internal erosion, degradation of the steel braiding) cannot be reliably predicted under abuse loads or in an emergency (e.g. a fire). The overall effect of aging cannot be quantified by visual inspection.</p> <p>Additionally, the rate of degradation cannot be accurately predicted due to variations in usage, temperature, humidity UV exposure etc.</p>	
3. Compliance (Category):	
Highly Recommended	
4. Consequences of Non-Compliance (Possible)	
Uncontrolled propane fire	

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5. Compliance

At the next annual / 100hr inspection.

Before exceeding 10 years accumulated service by any fuel hose since new (first installation on a balloon or airship), replace that fuel hose with a serviceable part in accordance with the Maintenance Manual instructions.

Where the date of first installation is not known, the date should be taken as the date engraved or stamped on the swaged end of the hose assembly. Hoses with no date marking are likely to be more than 10 years old.



Notes:

- 1) This Service bulletin applies to liquid and vapour fuel hoses and fuel manifold hoses.
- 2) Mandatory inspections included in manufacturer's Instructions for Continuing Airworthiness are still required.
- 3) Screwed-on "Rego", "Tema" or Dynaquip hose connectors may be re-used. SB20 'Replacement of Rego Female Hose Connectors' remains *Highly Recommended*. Swaged end fittings must not be re-used.
- 4) Maintenance Organisations should ensure that hose assemblies are stored in a manner that facilitates age control and first-in and first-out usage based on manufacturing date of the hose assemblies.
- 5) Stored hose and hose assemblies must not be subjected to damage that could reduce their expected service life and must be placed in a cool, dark and dry area with the ends capped.

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6. **Materials:** Refer to Maintenance Manual Issue 10, Amendment 4 or later.

7. **Other Publications Affected :** None

8. **Mass (Weight)/Balance:** Not affected

9. **Maintenance and Operating Instructions:** Not affected

10. **Additional Information:** None

Compiled by:

[Signature]

Notes:

None

Date: 17-8-21

Name: D. BOSA

11. Design Organisation Approval

Statement of Compliance Verification

I hereby confirm that the instructions identified in this bulletin provide for practical and well defined installation/inspection methods and when accomplished the product is in conformance with approved design data.

Signed, for and on behalf of Cameron Balloons Ltd.

[Signature]

Head of Airworthiness

Date: 17-8-21

Name: D. BOSA

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 UK.21J.0140

Signed, for and on behalf of Cameron Balloons Ltd.

[Signature]

PP Head of Design



Date: 23/8/2021

Name: D S CAMERON

Note: If this Service Bulletin is or will become the subject of an Airworthiness Directive, a statement to that effect must be entered in Section 10 of this form.