

# Service Bulletin 20



## 1. General

(a) Service Bulletin No:	20
(b) Revision / Date	01 / 15-January-2020
(c) Title:	<b>Replacement of 'Rego' style Female Hose Connectors.</b>
(d) Description:	Replacement of 1 ¼" Acme (Rego style) hose connectors where the connecting nut and/or centre body are manufactured from brass
(e) Applicability:	<p>EASA TCDS Reference: EASA.BA.012, EASA.BA.013. EASA.BA.109, EASA.AS.511. EASA.AS.002, EASA.BA.028, EASA.BA.501, EASA.BA.506, EASA.BA.505, EASA.BA.504, EASA.BA.503, EASA.BA.502, EASA.BA.120, EASA.BA.021.</p> <p>UKCAA TCDS reference: BAS3, BAS7.</p> <p>All Cameron, Thunder &amp; Colt, Sky and Lindstrand Hot Air Balloons Limited balloons where 1 ¼" Acme Couplings are fitted to the liquid fuel supply hoses.</p> <p>All Cameron and Thunder &amp; Colt Airships where 1 ¼" Acme Couplings are fitted to the liquid fuel supply hoses.</p> <p>For Part No. of Cameron manufactured burners refer to HABFM-i10 and supplements. For Part No. of other manufacturers burners refer to the applicable manuals</p> <p>NOTE: This service bulletin is applicable to <u>all</u> balloons for which Cameron Balloons Ltd is the Type Certificate holder, regardless of the manufacturer of the burner system.</p>
(f) 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. Background:

Testing has shown that that Rego-style couplings with brass centre bodies or back nuts fail under abuse loads at less than 50% of the strength of stainless steel components (186 kg vs. >400 kg (ref: CBL/TR/CLM/505)).

These historically fitted parts fail to meet the requirements of CS-31HB.46(b) and AMC 31HB.46(b). Abuse loads likely to occur, such as the grabbing of a fuel hose by a passenger during landing, could cause a rupture of the fuel system due to failure of the connecting nut.

**Cameron Balloons Ltd., St Johns Street**  
Bedminster, Bristol BS3 4NH, United Kingdom

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### 3. Compliance (Category) and time:

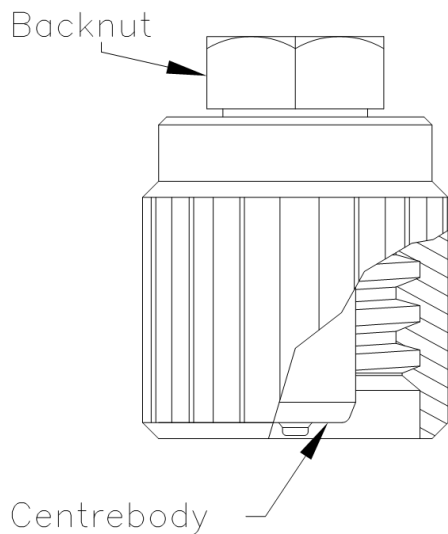
Required at or before the next annual / 100 hr inspection.

### 4. Consequences of Non-Compliance (Possible):

An unsafe condition exists according to AMC 21.A.3B(b)(a)(iii) because failure of the hose end fittings would cause an uncontrolled leak of liquid propane and subsequent fire.

### 5. Accomplishment Instructions

1. Check the material of the centre body and connecting nut (back nut). If the material is obviously made of brass (yellow/gold) appearance a visual check is adequate, if the material is plated (similar appearance to chrome plate) a small area should be abraded with a file to check the substrate.
2. Any couplings with brass centre body and back nut should be replaced with an approved stainless steel alternative (CH-0144-0001 or CH-7141-0001) in accordance with the procedures and torque values given in Cameron Balloons Maintenance Manual i10-Amdt 4, Section 4.2.



### 6. Materials

CH-0144-0001 Female Coupling BM144 or  
CH-7141-0001 7141F LPG Coupling.

### 7. Other Publications Affected None

### 8. Mass (Weight)/Balance: Not Affected


### 9. Maintenance and Operating Instructions: Not Affected

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**10. Additional Information** The contents of this bulletin will be added to the Cameron Balloons Inspection Schedule at its next revision (Maintenance manual Section 6).

Compiled by: 	Notes:
Date: 16-1-2020 Name: D Boxall	

## 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.



Head of Airworthiness



Date: 16-01-2020 Name:

### 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.



Head of Design



Date: 16-01-2020 Name:

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.