



Civil Aviation Authority

EMERGENCY AIRWORTHINESS DIRECTIVE



Number: G-2025-0001R1-E

Issue date: 11 April 2025

This Airworthiness Directive (AD) is issued by the UK CAA in accordance with UK Regulation (EU) No 748/2012 Part 21.A.3B, acting as the Authority of the State of Design for the affected product(s), under Article 34 of the Air Navigation Order 2016 (ANO) and UK Regulation (EU) 2018/1139.

In accordance with UK Regulation (EU) No 1321/2014 Annex I (Part-M), M.A.301 / Annex VB (Part-ML), ML.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified or agreed by the CAA [Part-M, M.A.303 / Part-ML, ML.A.303].

Design Approval Holder's Name:

CAMERON BALLOONS LIMITED

Equipment Designation(s):

Cylinders fitted with Pressure Relief Valve (PRV) adaptor CB8426

Effective Date:	Revision 1: 12 April 2025 Original Issue: 29 March 2025
TCDS / STC / UKTSO / Modification Number(s):	EASA.BA.030 UK.TC.BA.00001 UK.TC.BA.00002 UK.TC.BA.00003 UK.TC.BA.00006 UK.TC.BA.00014 UK.TC.BA.00072 UK.TC.BA.00088 UK.TC.BA.00107
Foreign AD (if applicable):	N/A
Supersedure:	N/A

Hot Air Balloons – Cylinders fitted with PRV adaptor CB8426– Inspect for Cracking

Manufacturer(s):

Cameron Balloons Limited

Applicability:

Cylinders fitted with PRV adaptor CB8426 including, but not limited to the below cylinder models:

Thunder & Colt	Sky	Lindstrand
V20-100-00/CB8420	A0/V30	V20/CY-020-A-001
830922-1	A0/V40	V30/CY-030-A-001
V30-100-00/CB8430		V40/CY-040-A-001
V40-100-00/CB8440		T30/CY-050-A-001

Definitions:

PRV Adaptor – Pressure Relief Valve Adaptor

Reason:

Three instances of failed CB8426 adaptors have been reported in the last 9 months to Cameron Balloons Limited. Failed components have presented with a crack located on the upper hex portion of the adaptor.

There are estimated to be approximately 2,000 adaptors in service. The failure mode of the reported failures is under urgent investigation by Cameron Balloons Limited.

The intent of this Airworthiness Directive is to detect and correct failed CB8426 adaptors.

The consequence of a failed CB8426 adaptor is there will be an uncontrolled leak of LPG fuel.

This Airworthiness Directive requires that the results of the inspections should be reported to Cameron Balloons Limited in the event of the discovery of cracking. As the cause of the failed CB8426 adaptors is not known, these required inspection reports will help determine the extent of the failures in the affected fleet. Based on the results of these reports, further corrective action is likely to be warranted.

Given that the unsafe condition addressed by this AD is likely due to a manufacturing or maintenance non-conformity problem, a reporting requirement is instrumental in ensuring that as much information as possible regarding the extent and nature of the non-conformity or breakdown can be gathered, especially where that data may not be available through other established means. This information is necessary to ensure that proper corrective action will be taken.

Cameron Balloons Limited have issued 'Alert Service Bulletin 36, Revision 0 Dated March 2025' to give further guidance on this issue, including 'Accomplishment Instructions'.

This Airworthiness Directive has been revised to include the note under 'Required Action(s) and Compliance Time(s)' which clarifies that the inspection can be accomplished by pilot-owners under the provisions as described in the note.

Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

1. Due to the nature of the potential leakage which can take place whether the cylinders are fitted in a balloon or not, visually inspect affected PRV adaptors immediately as of 29 March 2025 (the effective date of the original issue of this Airworthiness Directive).
2. If during the inspection any cylinders are found to have cracked adaptors installed they should be emptied of fuel immediately and removed from service.

3. After completing the initial required actions of this Airworthiness Directive, PRV adaptors must be inspected for cracks before each flight. If a crack is found follow instructions as per paragraph 2 above.

NOTE: The 'Required Action(s) and Compliance Action(s)' steps described in paragraphs (1, 2 & 3) as above may be accomplished by the pilot-owner under the provisions of Annex I paragraph M.A.803 or Annex Vb paragraph ML.A.803 of UK Regulation (EU) No 1321/2014, as applicable. In respect of balloons not subject to UK Regulation (EU) No 1321/2014, the State of Registry should consider if the national regulations allow the action(s) to be accomplished by the pilot-owner.

Reference Publications:

Cameron Balloons Limited 'Alert Service Bulletin 36, Revision 0 Dated March 2025,

The use of later approved revisions of the above documents is acceptable for compliance with the requirements of this AD.

Remarks:

1. The safety assessment has warranted immediate publication and notification without implementing the full consultation process and an immediate publication and notification.
2. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the CAA aviation safety reporting system. This may include reporting on the same or similar components, other than those covered by the design to which this AD applies, if the same unsafe condition can exist or may develop on an aircraft with those components installed. Such components may be installed under an FAA Parts Manufacturer Approval (PMA), Supplemental Type Certificate (STC) or other modification.
3. Enquiries regarding this Airworthiness Directive should be referred to:
Certification.GAU@caa.co.uk
4. For any questions concerning the technical content of the requirements in this AD, please contact:
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