



Airworthiness Directive

AD No.: 2021-0042

Issued: 29 January 2021

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I, Part M.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 by the Agency [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

BALLONS CHAIZE
 BALLONS LIBERT SPRL
 BALLONSERVICE & TECHNIK
 BALÓNY KUBÍČEK spol. s.r.o.
 CAMERON BALLOONS Ltd
 LINDSTRAND TECHNOLOGIES Ltd
 NOTHEISZ BALLOONS HUNGARY Kft.
 NOUVELLE MANUFACTURE D'AEROSTATS
 SUP-AIR BALLON EGYESÜLET
 Theo SCHROEDER FIRE BALLOONS GmbH
 ULTRAMAGIC S.A.

Type/Model designation(s):

Hot Air Balloons (see Applicability)

Effective Date: 12 February 2021

TCDS Number(s): 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.026, EASA.BA.028, EASA.BA.030, EASA.BA.119, EASA.BA.517, EASA.SAS.BA.012, EASA.SAS.BA.023 and EASA.SAS.BA.025.

Foreign AD: Not applicable

Supersedure: None

ATA – Hot Air Balloons – Burner Assembly and Hanger – Inspection / Modification

Manufacturer(s):

114 (714) ZO Svazarmu, Aviatik Klub, Aerotechnik P.O.S., Aerotechnik s.r.o, Aerotechnik Podnik ÚV Svazarmu, Altisph'air, Annonay Air Concept, Ballons Libert Sprl, Ballons Chaize, Ballonservice & Technik, Balóny Kubíček spol. s.r.o., Cameron Balloons Ltd, Colt Balloons, Firma Johann Schön, Kubíček spol. s.r.o., Lindstrand Balloons Ltd (LBL), Lindstrand Hot Air Balloons Ltd, Llopis Balloons, Notheisz Balloons Hungary Kft., Pilatre De Rozier S.I.G.A. S.A., Theo Schroeder fire balloons GmbH, Sky Balloons, SUP-AIR Ballon Egyesület, Thunder Balloons, Thunder & Colt, Ultramagic S.A., Lindstrand Technologies Ltd.



Note: The above list of manufacturers (some companies no longer exist) may not be complete, due to lack of historical data. In case a balloon manufacturer's name is not listed, that does not mean that this AD does not apply to that balloon – see the Applicability below.

Applicability:

All balloon types and models, as specified in the referenced TCDS and Specific Airworthiness Specification (SAS) listed above, all serial numbers.

Definitions:

For the purpose of this AD, the following definitions apply:

Affected part A: Stratus double burner hangers, having Part Number (P/N) CB8504, Issues A to C inclusive, except those installed on an affected part B. The affected hangers are part of Stratus double burner assemblies, having P/N CB8720 or P/N CB8721.

Affected part B: Stratus double burners, having P/N CB8720 or P/N CB8721, using a doubler plate to reinforce the central part of the hanger bracket, as shown on figure 2 of the SB.

Serviceable part: Stratus double burner hangers, having P/N CB8504, Issue D, or later.

The SB: Cameron Balloons Service Bulletin (SB) 28 revision 2, which makes reference to TN3191 issue B.

Reason:

An occurrence was been reported of a Stratus burner hanger, P/N CB8504, failing after landing, leaving one burner unit detached from the load frame. Investigation revealed a limited number of similar failures. Comparable issues have been experienced with other parts of the Stratus product line (see Australian CASA [AWB 14-001](#)). The suspected cause is fatigue cracking of the weld, caused mainly during ground transportation with the burner erect, combined with an overload event.

This condition, if not detected and corrected, could lead to burner falling on the balloon occupant's head, resulting in injury to balloon occupants. It could also lead to an uncontrolled cold descent and hard landing, possibly resulting in injury to balloon occupants and persons on the ground.

To address this potential unsafe condition, Cameron Balloons issued the SB, providing inspection and replacement instructions. It was determined that some burner hangers cannot be inspected as they are covered with a doubler plate to reinforce the central part of the hanger bracket.

For the reasons described above, this AD requires repetitive detailed inspections (DET) of the affected parts A and, depending on findings, replacement with a serviceable part. This AD also requires direct replacement of the burner hanger installed on affected parts B.



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

Required as indicated, unless accomplished previously:

Inspection (affected part A):

- (1) Within 30 days or 10 flight cycles (FC), whichever occurs first after the effective date of this AD, and, thereafter, at intervals not to exceed 12 months, accomplish a DET of the weld of each affected part A in accordance with the instructions of the SB.

Corrective Action(s):

- (2) If, during any DET as required by paragraph (1) of this AD, any crack is detected, before next flight, replace the affected part A with a serviceable part, as defined in this AD, in accordance with the instructions of the SB.

Credit:

- (3) DET accomplished on an affected part before the effective date of this AD in accordance with the original issue or revision 1 of Cameron Balloons SB 28 are an acceptable method to comply with the initial requirements of paragraph (1) of this AD for that affected part.

Terminating action:

- (4) Installation on a burner assembly of a serviceable part, as defined in this AD, constitutes terminating action for the repetitive DET as required by paragraph (1) of this AD for that burner assembly.

Modification (affected part B):

- (5) Within 30 days or 10 FC, whichever occurs first after the effective date of this AD, for each affected part B, replace the burner hanger with a serviceable part, as defined in this AD, in accordance with the instructions of the SB.

Parts Installation:

- (6) From the affected date of this AD, do not install an affected part A on any balloon.
- (7) From the affected date of this AD, do not install on any balloon an affected part B, unless the burner assembly is equipped with a serviceable part, as defined in this AD.

Ref. Publications:

Cameron Balloons SB 28 original issue dated 15 January 2020, or Revision 1 dated 24 February 2020, or Revision 2 dated 04 March 2020.

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

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.



2. This AD was posted on 19 May 2020 as PAD 20-083 for consultation until 16 June 2020. The Comment Response Document can be found in the [EASA Safety Publications Tool](#), in the compressed (zipped) file attached to the record for this AD.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
4. 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 [EU 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.
5. For any question concerning the technical content of the requirements in this AD, please contact: Cameron Balloons Ltd., St Johns Street , Bedminster, Bristol BS3 4NH, United Kingdom, Telephone +44 (0)117 9637216, E-mail: technical@cameronballoons.co.uk, Website: <http://www.cameronballoons.co.uk/>.

