



Emergency Airworthiness Directive

AD No.: 2022-0077-E

Issued: 29 April 2022

Note: This Emergency 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 or Annex Vb Part ML.A.301, as applicable, 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 Annex Vb Part ML.A.303, as applicable] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

AIRBUS HELICOPTERS
AIRBUS HELICOPTERS DEUTSCHLAND

Type/Model designation(s):

AS 350, AS 355 and EC 130 helicopters
EC 135, EC 635 and MBB-BK 117 helicopters

Effective Date: 02 May 2022

TCDS Number(s): EASA.R.008, EASA.R.009, EASA.R.010 and EASA.R.146

Foreign AD: Not applicable

Supersedure: None

ATA 67 – Rotors Flight Control – Flight Control Flexball Cables – Replacement

Manufacturer(s):

Airbus Helicopters (AH), formerly Eurocopter, Eurocopter France, Aerospatiale

Airbus Helicopters Deutschland GmbH (AHD), formerly Eurocopter Deutschland GmbH, Eurocopter España S.A.

Applicability:

MBB-BK 117 D-2, MBB-BK 117 D-3, MBB-BK 117 D-3m and MBB-BK 117 C-2 helicopters, all serial numbers (s/n);

EC 135 T1, EC 135 T2, EC 135 T2+, EC 135 T3, EC 135 P1, EC 135 P2, EC 135 P2+, EC 135 P3, EC 635 T1, EC 635 T2+, EC 635 T3, EC 635 P2+ and EC 635 P3 helicopters, all s/n;

AS 350 B, AS 350 B1, AS 350 B2, AS 350 B3, AS 350 BA, AS 350 BB and AS 350 D helicopters, all s/n;

EC 130 B4 and EC 130 T2 helicopters, all s/n;

AS 355 E, AS 355 F, AS 355 F1, AS 355 F2, AS 355 N and AS 355 NP helicopters, all s/n.



Definitions:

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

The EASB: AHD Emergency Alert Service Bulletin (EASB) MBB-BK117 C-2-67A-032, EASB MBB-BK117 D-2-67A-021, EASB MBB-BK117 D-3-67A-001, EASB EC135-67A-043 and EASB EC135H-67A-016, as applicable; and AH EASB AS350 67.00.81, EASB AS355 67.00.49 and EASB EC130 67A023 (published as a single document), as applicable.

Affected part: For MBB-BK 117, EC 135 and EC 635 helicopters: Flight control flexball cable, having Part Number (P/N) 78CF-10461, P/N 76CF-8716, P/N 78CF-10009, P/N 78CF-10642, P/N 78CF-9920, P/N 78CF-9262, P/N 78CF-9919, and s/n as specified in Appendix 1 of this AD.

For AS 350, AS 355 and EC 130 helicopters: Flight control flexball cable having Manufacturer Part Number (MP/N) 76CF-10115 (P/N 704A34130221), MP/N 75CF-10132 (P/N 704A34130223), MP/N 75CF-9115 (P/N 704A34130184), MP/N 76CF-10116 (P/N 704A34130222) and MP/N 75CF-9134 (P/N 704A34130182) and s/n as specified in Appendix 1 of this AD.

Serviceable part: Any flight control flexball cable, eligible for installation, which is not an affected part.

Groups: Group 1 helicopters are those that have an affected part installed. Group 2 helicopters are those that do not have an affected parts installed.

Reason:

Occurrences were reported of flight control flexball cables which were not in compliance with the approved design. AH, AHD and the part supplier identified a batch of affected parts.

This condition, if not corrected, could lead to increase friction inside the flight control flexball cables up to jamming the flight control, possibly resulting in loss of control of the helicopter.

To address this unsafe condition, AH and AHD issued the EASB, providing identification and replacement instructions.

For the reason described above, this AD requires replacement of each affected part with a serviceable part. This AD also prohibits installation of an affected part on any helicopter.

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

Required as indicated, unless accomplished previously:

Replacement:

- (1) For Group 1 helicopters: Before next flight after the effective date of this AD, replace each affected part with a serviceable part in accordance with the instructions of EASB.

Note: A single ferry flight without passengers is allowed to position a helicopter to a maintenance location where the action required by this AD can be accomplished on that helicopter.



Parts Installation:

- (2) For Group 1 and Group 2 helicopters: From the effective date of this AD, do not install an affected part on any helicopter.

Ref. Publications:

AHD EASB MBB-BK117 C-2-67A-032 original issue dated 29 April 2022.

AHD EASB MBB-BK117 D-2-67A-021 original issue dated 29 April 2022.

AHD EASB MBB-BK117 D-3-67A-001 original issue dated 29 April 2022.

AHD EASB EC135-67A-043 original issue dated 29 April 2022.

AHD EASB EC135H-67A-016 original issue dated 29 April 2022.

AH EASB AS350 67.00.81, AS355 67.00.49 and EASB EC130 67A023 (published as a single document) original issue dated 29 April 2022.

The use of later approved revisions of the above-mentioned documents 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. The results of the safety assessment have indicated the need for immediate publication and notification, without the full consultation process.
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:
Airbus Helicopters (Technical Support), Aéroport de Marseille Provence 13725 Marignane Cedex, France, Telephone +33 (0)4 42 85 97 97, Fax +33 (0)4 42 85 99 66, Airbus World: Technical Request Management: <https://airbusworld.helicopters.airbus.com>
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<https://airbusworld.helicopters.airbus.com>;

E-mail: customersupport.helicopters@airbus.com.



Appendix 1 – s/n of Affected Parts

Helicopter Model	P/N	s/n
MBB-BK 117 D-2, MBB-BK 117 D-3 and MBB-BK 117 D-3m	78CF-9919	From 1666 to 1702 inclusive
	78CF-9262	From 1609 to 1658 inclusive
	78CF-9920	From 1637 to 1656 inclusive
	78CF-10461	697, 698, 700 and from 702 to 735 inclusive
MBB-BK 117 C-2	78CF-9919	From 1666 to 1702 inclusive
	78CF-9262	From 1609 to 1658 inclusive
	78CF-9920	From 1637 to 1656 inclusive
	78CF-10009	From 1147 to 1167 inclusive
EC 135 T1, EC 135 T2, EC 135 T2+, EC 135 T3, EC 135 P1, EC 135 P2, EC 135 P2+, EC 135 P3, EC 635 T1, EC 635 T2+, EC 635 T3, EC 635 P2+ and EC 635 P3	76CF-8716	1899, 1903, 1904, 1908, 1909 and 1910
EC 135 T3, EC 135 P3, EC 635 T3 and EC 635 P3	78CF-10642	From 332 to 346 inclusive
AS 350 B, AS 350 B1, AS 350 B2, AS 350 B3, AS 350 BA, AS 350 BB and AS 350 D EC 130 B4 and EC 130 T2 AS 355 E, AS 355 F, AS 355 F1, AS 355 F2, AS 355 N and AS 355 NP	MP/N 76CF-10115 (704A34130221)	From 957 to 976 inclusive
	MP/N 75CF-10132 (704A34130223)	From 3322 to 3369 inclusive
	MP/N 75CF-9115 (704A34130184)	From 4621 to 4640 inclusive
	MP/N 76CF-10116 (704A34130222)	From 994 to 1003 inclusive
	MP/N 75CF-9134 (704A34130182)	From 1216 to 1226 inclusive

