



Airworthiness Directive

AD No.: 2022-0261

Issued: 20 December 2022

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, 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

Type/Model designation(s):

AS 365 and EC 155 helicopters

Effective Date: 03 January 2023

TCDS Number(s): EASA.R.105

Foreign AD: Not applicable

Supersedure: None

ATA 26 – Fire Protection – Fire Detectors – Replacement

Manufacturer(s):

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

Applicability:

AS 365 N3, EC 155 B and EC 155 B1 helicopters, all serial numbers (s/n).

Definitions:

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

The ASB: AH Alert Service Bulletin (ASB) AS365-26.00.12 and ASB EC155-26A009, as applicable, which refers to SAFRAN Helicopter Engines, S.A. (SAFRAN) Mandatory Service Bulletin (SB) A292 26 2881 Version A.

Affected part: Fire detectors, having a Part Number (P/N) and an s/n as listed in Appendix 1 of this AD.

Serviceable part: Any fire detector that is not an affected part.

Affected engine: An engine that has at least one affected part installed.

Affected helicopter: A helicopter that has two affected engines installed.



Reason:

Some occurrences were reported of spurious engine fire warnings. The subsequent investigation results identified a manufacturing non-compliance on the fire detectors, which caused a shift of the detection threshold towards temperature values that are lower than specified, potentially leading to a spurious engine fire warning. When two engines on a helicopter are fitted with an affected part, an engine fire warning could occur on both engines during the same flight.

This condition, if not corrected, could lead to commanded engine in-flight shut-down, possibly resulting in reduced control of the helicopter.

To address this potential unsafe condition, AH issued the ASB, as defined in this AD, to provide instructions to identify and replace the affected parts.

For the reasons described above, this AD requires replacement, and prohibits (re)installation, of the affected parts.

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

Required as indicated, unless accomplished previously:

Replacement:

- (1) For affected helicopters: Within 30 flight hours or 60 days, whichever occurs first after the effective date of this AD, replace the affected parts installed on one of the affected engines with serviceable parts, as defined in this AD, in accordance with the instructions of section 3 of the ASB.

Part(s) Installation:

- (2) From the effective date of this AD, do not install an affected part, or an affected engine, on any helicopter.

Ref. Publications:

AH ASB AS365-26.00.12 and ASB EC155-26A009 original issue dated 19 December 2022.

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. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication.
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)
Web portal: <https://keycopter.airbushelicopters.com> > Technical Requests Management, or
E-mail: TechnicalSupport.Helicopters@airbus.com.



Appendix 1 – Affected Parts

Fire Detector Type		200°C		
Supplier P/N		H243-1		
SAFRAN P/N		9550177130		
s/n				
BD21501	BD21547	BD21673	BD21768	BD21868
BD21503	BD21548	BD21676	BD21769	BD21869
BD21504	BD21551	BD21678	BD21772	BD21871
BD21505	BD21553	BD21686	BD21774	BD21874
BD21506	BD21560	BD21689	BD21777	BD21877
BD21507	BD21561	BD21691	BD21779	BD21880
BD21508	BD21562	BD21694	BD21780	BD21884
BD21509	BD21569	BD21695	BD21781	BD21889
BD21510	BD21572	BD21699	BD21782	BD21915
BD21511	BD21578	BD21700	BD21784	BD21952
BD21512	BD21588	BD21701	BD21785	BD21956
BD21513	BD21594	BD21702	BD21796	
BD21514	BD21601	BD21704	BD21799	
BD21515	BD21604	BD21705	BD21800	
BD21516	BD21607	BD21706	BD21804	
BD21517	BD21608	BD21707	BD21805	
BD21518	BD21610	BD21713	BD21808	
BD21519	BD21611	BD21717	BD21811	
BD21520	BD21612	BD21721	BD21812	
BD21521	BD21613	BD21723	BD21813	
BD21522	BD21623	BD21724	BD21816	
BD21523	BD21636	BD21728	BD21818	
BD21524	BD21638	BD21729	BD21820	
BD21525	BD21639	BD21730	BD21821	
BD21526	BD21641	BD21731	BD21822	
BD21527	BD21646	BD21735	BD21824	
BD21529	BD21648	BD21738	BD21827	
BD21530	BD21651	BD21740	BD21832	
BD21531	BD21653	BD21742	BD21837	
BD21538	BD21657	BD21743	BD21839	
BD21539	BD21659	BD21745	BD21841	
BD21540	BD21662	BD21746	BD21842	
BD21541	BD21663	BD21748	BD21846	
BD21542	BD21664	BD21750	BD21849	
BD21543	BD21666	BD21754	BD21851	
BD21544	BD21667	BD21763	BD21855	
BD21545	BD21670	BD21766	BD21858	
BD21546	BD21671	BD21767	BD21859	



Appendix 1 – Affected Parts (continued)

Fire Detector Type		400°C		
Supplier P/N		H443-1		
SAFRAN P/N		9550177160		
s/n				
BN15881	BN15948	BN16046	BN16119	BN16169
BN15883	BN15949	BN16049	BN16120	BN16170
BN15885	BN15950	BN16052	BN16122	BN16172
BN15888	BN15951	BN16053	BN16123	BN16174
BN15889	BN15953	BN16054	BN16124	BN16177
BN15890	BN15956	BN16055	BN16126	BN16178
BN15891	BN15959	BN16060	BN16127	BN16179
BN15895	BN15963	BN16061	BN16129	BN16182
BN15896	BN15965	BN16063	BN16133	BN16183
BN15898	BN15967	BN16065	BN16135	BN16185
BN15900	BN15976	BN16066	BN16136	BN16189
BN15901	BN15978	BN16072	BN16137	BN16190
BN15906	BN15980	BN16073	BN16138	BN16194
BN15908	BN15983	BN16075	BN16139	BN16195
BN15911	BN15986	BN16076	BN16140	BN16225
BN15913	BN15988	BN16077	BN16141	
BN15916	BN15990	BN16078	BN16142	
BN15917	BN16004	BN16080	BN16143	
BN15918	BN16006	BN16081	BN16145	
BN15920	BN16008	BN16082	BN16146	
BN15921	BN16009	BN16083	BN16148	
BN15922	BN16010	BN16084	BN16149	
BN15923	BN16011	BN16085	BN16150	
BN15924	BN16012	BN16086	BN16151	
BN15925	BN16015	BN16087	BN16152	
BN15926	BN16017	BN16089	BN16154	
BN15927	BN16018	BN16097	BN16156	
BN15928	BN16019	BN16099	BN16157	
BN15929	BN16023	BN16100	BN16159	
BN15930	BN16025	BN16102	BN16160	
BN15931	BN16027	BN16107	BN16161	
BN15933	BN16028	BN16109	BN16162	
BN15936	BN16029	BN16110	BN16163	
BN15937	BN16030	BN16112	BN16164	
BN15940	BN16031	BN16115	BN16165	
BN15942	BN16038	BN16116	BN16166	
BN15944	BN16040	BN16117	BN16167	
BN15945	BN16045	BN16118	BN16168	

