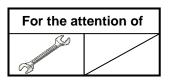




# EMERGENCY ALERT SERVICE BULLETIN

# **PROTECTIVE MEASURE**

### FIRE PROTECTION - Engine fire detectors Check and replacement of the engine fire detectors



HELICOPTER	NUMBER	Version(s)		
CONCERNED	NOMBER	Civil	Military	
AS365	26.00.12	N3	K2	
AS565	26.00.08		MB, SB, UB	
SA366	26.02		GA	
EC155	26A009	B, B1		

Revision No.	Date of issue
Revision 0	2022-12-19

# Summary:

The purpose of this ALERT SERVICE BULLETIN is to check and if necessary replace, on one engine, the non-conform engine fire detector(s) by referring to Service Bulletin No. A292 26 2881 version A from Safran Helicopter Engines.

# Compliance:

It is mandatory to comply with this ALERT SERVICE BULLETIN.

Revision 0 2022-12-19

HELICOPTERS

# 1. PLANNING INFORMATION

### **1.A. EFFECTIVITY**

#### 1.A.1. Helicopters/installed equipment or parts

Helicopters with engine fire detectors MP/N H243-1 or H443-1 and with serial number (S/N) listed in Appendix  $\underline{4.B.}$ 

#### <u>NOTE</u>

The Service Bulletin No. A292 26 2881 version A from Safran Helicopter Engines quotes several references of engine fire detectors:

- The engine fire detectors MP/N H243-1 and H443-1 are listed in this ALERT SERVICE BULLETIN because they are under Airbus Helicopters Type Certificate.
- The engine fire detectors MP/N H253-1 and H453-1 are not listed in this ALERT SERVICE BULLETIN because they are under Safran Helicopter Engines Type Certificate.

#### 1.A.2. Non-installed equipment or parts

Not applicable.

#### **1.B. ASSOCIATED REQUIREMENTS**

Not applicable.

#### 1.C. REASON

Airbus Helicopters was informed of three occurrences of illumination of the engine fire alarm without confirmed fire (untimely illumination) on helicopters equipped with sealed engine fire detectors.

Although they are delivered by Safran Helicopter Engines with the aircraft engines, the engine fire detectors involved in these occurrences belong to Airbus Helicopters Type Certificate.

The analysis done by Safran Helicopter Engines identified a non-conformity in the production process of the engine fire detectors produced between January and June 2022, by the concerned supplier.

The engine fire detectors produced during this period can show a detection threshold lower than their specification, which could result in an untimely illumination of the engine fire alarm.

The risk analysis carried out by Airbus Helicopters concluded that there was an UNSAFE condition in the event of a false fire alarm on both engines during the same flight.

The purpose of this ALERT SERVICE BULLETIN is to check and if necessary replace, on one engine, the engine fire detectors by referring to Service Bulletin No. A292 26 2881 version A from Safran Helicopter Engines.

HELICOPTERS

#### 1.D. DESCRIPTION

This ALERT SERVICE BULLETIN consists to comply with Safran Helicopter Engines Service Bulletin No. A292 26 2881 version A.

#### **1.E. COMPLIANCE**

#### 1.E.1. Compliance at H/C manufacturer level

Not applicable.

#### 1.E.2. Compliance in service

Helicopters/installed equipment or parts:

It is operator who does the work on the helicopter.

Check if the helicopter is equipped with engine fire detectors with a S/N as specified in the Appendix <u>4.B.</u> not more than 30 Flight Hours (FH) or 60 days after you received the revision 0 of this ALERT SERVICE BULLETIN (the first limit you get to is applicable). Refer to the date in the page footer.

If during the check it is identified that the two engines of the helicopter have at least one engine fire detector given in the Appendix <u>4.B.</u>:

Comply with the instructions of paragraph  $\underline{3}$ . of this ALERT SERVICE BULLETIN to replace the concerned engine fire detector(s) on one of the engines of the helicopter before 30 FH or 60 days after you received the revision 0 of this ALERT SERVICE BULLETIN (the first limit you get to is applicable).

Non-installed equipment or parts:

Not applicable.

#### 1.F. APPROVAL

The technical content of this document is approved under the authority of the Design Organization Approval ref. EASA. 21J.700.

The technical content of this document is approved under the prerogatives of the recognition of design capability ref. FRA21J-002-DGA for French Government helicopters.

The technical content of this document is approved by Airbus Helicopters Airworthiness Department for export military versions.

HELICOPTERS

#### 1.G. MANPOWER

Airbus Helicopters recommends that the personnel who will do this ALERT SERVICE BULLETIN have this qualification:

Qualification: 1 Mechanical Technician.



The man-hours are an estimate given for information only and for a standard helicopter configuration.

Estimated Man-hours: one hour for the check and the replacement (if necessary) of the engine fire detector(s).



The helicopter downtime is an estimate given for information only and for a standard helicopter configuration.

The estimate of the helicopter downtime is one hour for the check and the replacement.

#### 1.H. WEIGHT AND BALANCE

Not applicable.

#### 1.I. POWER CONSUMPTION

Not applicable.

#### 1.J. SOFTWARE UPGRADES/UPDATES

Not applicable.

### 1.K. REFERENCES

These documents are necessary to comply with this ALERT SERVICE BULLETIN.

Service Bulletin (SB): SB: A292 26 2881 version A: Replacement of a batch of potentially non-conforming fire detectors (SEE Appendix 4.A.).

Information Notice (IN): IN: 3785-I-00: Introduction of the digital Service Bulletin reporting SB Insight

### **1.L. OTHER AFFECTED PUBLICATIONS**

Not applicable.

#### 1.M. PART INTERCHANGEABILITY OR MIXABILITY

Not applicable.

HELICOPTERS

# 2. EQUIPMENT OR PARTS INFORMATION

2.A. EQUIPMENT OR PARTS: PRICE - AVAILABILITY - PROCUREMENT

Not applicable.

### 2.B. LOGISTIC INFORMATION

Not applicable.

# 2.C. EQUIPMENT OR PARTS REQUIRED PER HELICOPTER/COMPONENT

Not applicable.

### 2.D. EQUIPMENT OR PARTS TO BE RETURNED

Not applicable.

HELICOPTERS

# 3. ACCOMPLISHMENT INSTRUCTIONS

### 3.A. GENERAL

Not applicable.

### 3.B. WORK STEPS

Comply with the Safran Helicopter Engines Service Bulletin No. A292 26 2881 version A, refer to Appendix <u>4.A.</u>

### 3.C. RECORD OF COMPLIANCE

Compliance with this document:

- Record the full compliance with this ALERT SERVICE BULLETIN, with the revision number, in the helicopter documents.
- Record compliance with this ALERT SERVICE BULLETIN (see IN 3785-I-00 for instructions): QR code or hypertext link



#### <u>NOTE</u>

The recording of compliance with ALERT SERVICE BULLETIN in the SB Insight tool does not replace the recording in the helicopter documents.

EASB EC155-26A009

#### 3.D. OPERATING AND MAINTENANCE INSTRUCTIONS

Not applicable.

HELICOPTERS

# 4. APPENDICES

### 4.A. SAFRAN HELICOPTER ENGINES SERVICE BULLETIN No. A292 26 2881 VERSION A

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Version: A Date: 14 De First issue	cember 20	22	X	Modification Periodical action One-off action
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APPLICABLE ENGINE / VARIANT(S)	EFFECTIVITY	MAINTENANCE	CONDITION OF APPLICATION	EFFECT ON OPERATION
ARRIEL 2 C - C1 - C2 - C2-CG - C-PM - N	1-A	1,2,3	Check the presence, on your fleet, of the fire detector Serial Numbers (S/N) as specified in the Appendix A* in 30 FH (Flight Hours) or 60 days from the issue of this Mandatory Service Bulletin (first limit reached). If the 2 engines of the same airframe have at least one fire detector given in the list in the Appendix A*: Replace the concerned fire detector(s) on one of the engines of the airframe before 30 FH or 60 days from the issue of this Mandatory SB (first limit reached).	Replacement of fire detectors.
		4	Not applicable.	
engines in servi	ice. The appli	cation of this SB	of a technical requirement that can have an is specified by the effectivity code given abo	ove.
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For the defi	nition of the fiel	ids in this Service E	Bulletin, refer to General Service Letter No. 3041	

Revision 0 2022-12-19

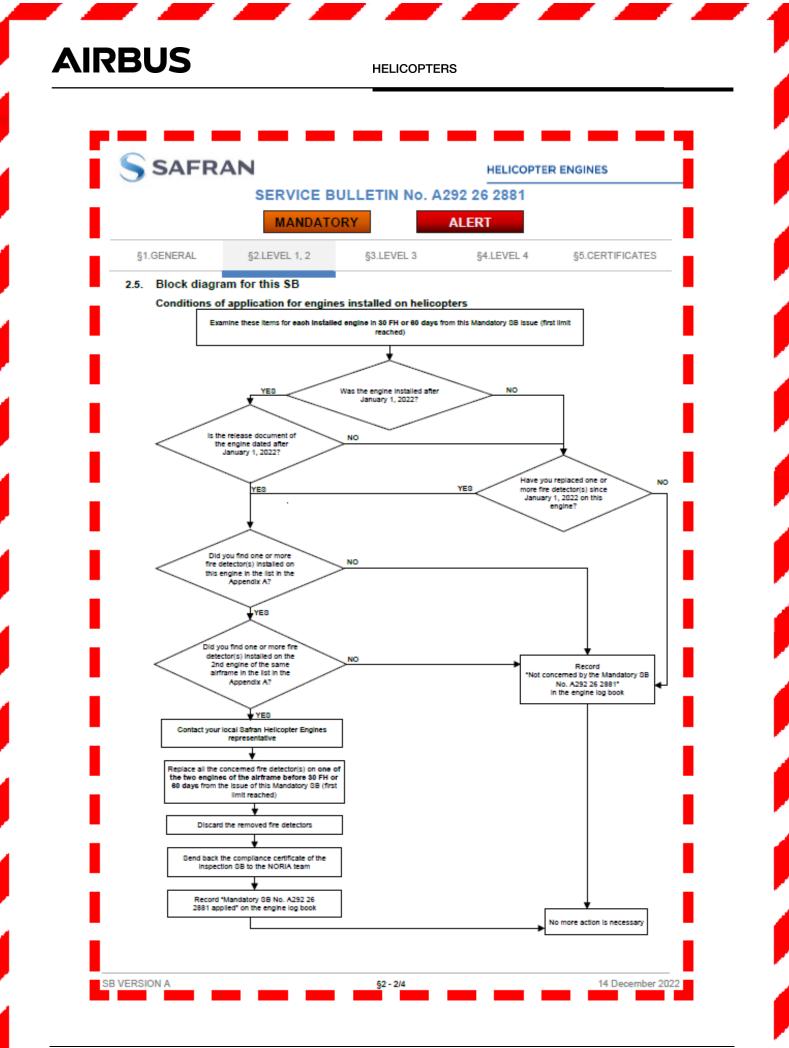
Page 7/19 This document is available on the Internet: <u>www.airbushelicopters.com/techpub/</u>



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APPROVED FO				
	ince certificate in chapter	<u>5.1</u>		
2.1. Manpower	nel: 1 mechanic.			
	l man-hour.			
2.2. Tools / Part	s			
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2.3. Parts inform	nation			
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	arts for application of the r		rred in this Mandatory	SB
	efer to the applicable ARR		-	
2.3.3. Supp	ly conditions			
2.3.3.1. C	ontact your local Safran H	elicopter Engines repr	esentative	
	der supplies as needed fr			
	our local Safran Helicopte	r Engines Support Cer	iter	
or	AFRAN HELICOPTER EN	GINES		
	rection Support et Service			
	epartement Commercial	-		
40	220 TARNOS - France			
2.4. Procedures	1			
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the list	in the Appendix A.	-	-	-
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	the concerned fire detec			

Page 9/19 This document is available on the Internet: <u>www.airbushelicopters.com/techpub/</u>



Revision 0 2022-12-19

Page 10/19 This document is available on the Internet: <u>www.airbushelicopters.com/techpub/</u>

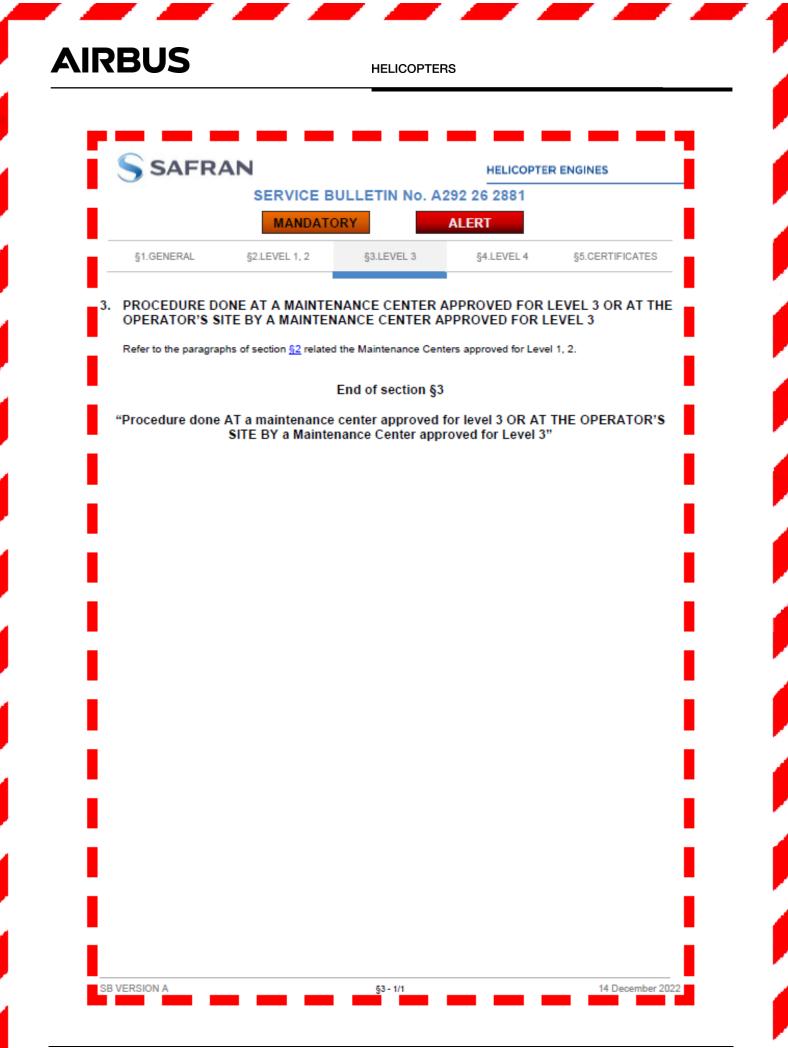
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<text><text><text><complex-block><complex-block></complex-block></complex-block></text></text></text>			necessary for this Manda	atory SB to replace	e the concerned fire
<ul> <li>Appendix A* to know if they are installed on your engines.</li> <li>* Appendix A attached to this SB electronic version available on <i>EngineLife®</i> Customer Potal.</li> <li>Not: The date of the engine release document is in the release documents attached to the engine log book.</li> <li>www.internet.com/wwww.internet.com/www.internet.com/www.internet.co</li></ul>	-	-	paragraph 2.5, of the fire	detector S/Ns ai	en in the list in the
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<ul> <li><b>1.6.2.2.</b> If the fire detector S/Ns given in the list in the Appendix A are not installed on the engines of the sirframe, do not do this Mandatory SB.</li> <li><b>2.6.2.3.</b> If the fire detector S/Ns given in the list in the Appendix A are installed on the engines of the sirframe.</li> <li><b>2.6.2.4.</b> If the fire detector S/Ns given in the list in the Appendix A are installed on the engines of the sirframe.</li> <li><b>2.6.2.6.</b> If the fire detector S/Ns given in the list in the Appendix A are installed on the engines of the sirframe.</li> <li><b>2.6.2.6.</b> If the fire detector S/Ns given in the list in the Appendix A are installed on the two engines of the sirframe.</li> <li><b>2.6.2.6.</b> If the fire detector S/Ns given in the list in the Appendix A are installed on the two engines of the sirframe.</li> <li><b>2.6.2.6.</b> If the fire detector S/Ns given in the list in the Appendix A are installed on the two engines of the sirframe.</li> <li><b>2.6.2.6.</b> If the fire detector S/Ns given in the list in the Appendix A are installed on the two engines of the sire are are arrited endertors.</li> <li><b>2.6.6.</b> If the fire detector S/Ns given in the list in the Appendix A are installed on the two engines of the sire are are arrited endertors.</li> <li><b>2.6.7.</b> If one paragraph 2.6.4 for identification.</li> <li><b>2.6.8.</b> The oparagraph 2.6.4 for identification.</li> <li><b>2.6.7.</b> Reconditioning and checks</li> </ul>	s	SAFRAN MARKEN	in survey of		
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<ul> <li><b>1.6.2.2.</b> If the fire detector S/Ns given in the list in the Appendix A are not installed on the engines of the airframe, do not do this Mandatory SB.</li> <li><b>2.6.2.3.</b> If the fire detector S/Ns given in the list in the Appendix A are installed on the engines of the same airframe.</li> <li><b>2.6.2.3.</b> If the fire detector S/Ns given in the list in the Appendix A are installed on the engines of the same airframe.</li> <li><b>2.6.2.3.</b> If the fire detector S/Ns given in the list in the Appendix A are installed on the two engines of the same airframe.</li> <li><b>2.6.2.4.</b> If the fire detector S/Ns given in the list in the Appendix A are installed on the two engines of the same airframe.</li> <li><b>2.6.2.3.</b> If the fire detector S/Ns given in the list in the Appendix A are installed on the two engines of the same airframe.</li> <li><b>2.6.2.4.</b> Contact your local Safran Helicopter Engines representative.</li> <li><b>1.</b> Replace the concerned fire detectors, on one of the engines of the airframe, with compliant fire detectors: Refer to the applicable ARRIEL 2 Maintenance Manual, task 26-11-00-900-801.</li> <li><b>2.6.3.</b> Reconditioning and checks</li> </ul>				10.200 11.100.000	n na na seconda da seconda da seconda de la seconda de la seconda da seconda de la seconda de la la seconda de la seconda de
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<ul> <li>airframe, do not do this Mandatory SB.</li> <li>2.6.2.3. If the fire detector S/Ns given in the list in the Appendix A are installed on the two engines of the same airframe: <ul> <li>Contact your local Safran Helicopter Engines representative.</li> <li>Replace the concerned fire detectors, on one of the engines of the airframe, with compliant fire detectors: Refer to the applicable ARRIEL 2 Maintenance Manual, task 26-11-00-900-801.</li> <li>Refer to paragraph 2.6.4 for identification.</li> <li>Discard the removed fire detectors.</li> </ul> </li> <li>2.6.3. Reconditioning and checks</li> </ul>	C.		and Area -		she-phos
<ul> <li>same airframe:</li> <li>Contact your local Safran Helicopter Engines representative.</li> <li>Replace the concerned fire detectors, on one of the engines of the airframe, with compliant fire detectors: Refer to the applicable ARRIEL 2 Maintenance Manual, task 26-11-00-900-801.</li> <li>Refer to paragraph 2.6.4 for identification.</li> <li>Discard the removed fire detectors.</li> </ul> 2.6.3. Reconditioning and checks		-		dix A are not inst	alled on the engines of the
<ul> <li>Contact your local Safran Helicopter Engines representative.</li> <li>Replace the concerned fire detectors, on one of the engines of the airframe, with compliant fire detectors: Refer to the applicable ARRIEL 2 Maintenance Manual, task 26-11-00-900-801.</li> <li>Refer to paragraph 2.6.4 for identification.</li> <li>Discard the removed fire detectors.</li> </ul> 2.6.3. Reconditioning and checks	2822 IF	_	en in the list in the Appen	dix A are installe	d on the two engines of the
<ul> <li>detectors: Refer to the applicable ARRIEL 2 Maintenance Manual, task 26-11-00-900-801.</li> <li>Refer to paragraph 2.6.4 for identification.</li> <li>Discard the removed fire detectors.</li> </ul> 2.6.3. Reconditioning and checks		Contact your local Safra			
<ul> <li>Refer to paragraph 2.6.4 for identification.</li> <li>Discard the removed fire detectors.</li> </ul> 2.6.3. Reconditioning and checks	58				airframe, with compliant fire
2.6.3. Reconditioning and checks	58	detectors: Refer to the a			
-	5a • •	detectors: Refer to the a task 26-11-00-900-801.			
	53	detectors: Refer to the a task 26-11-00-900-801. Refer to paragraph 2.6.4 Discard the removed fire	4 for identification.		
	sa • • • • • • • • • • • • • • • • • • •	detectors: Refer to the a task 26-11-00-900-801. Refer to paragraph 2.6.4 Discard the removed fire anditioning and checks	4 for identification.		
	sa • • • • • • • • • • • • • • • • • • •	detectors: Refer to the a task 26-11-00-900-801. Refer to paragraph 2.6.4 Discard the removed fire anditioning and checks	4 for identification.		
	sa • • • • • • • • • • • • • • • • • • •	detectors: Refer to the a task 26-11-00-900-801. Refer to paragraph 2.6.4 Discard the removed fire anditioning and checks	4 for identification.		
	sa • • • • • • • • • • • • • • • • • • •	detectors: Refer to the a task 26-11-00-900-801. Refer to paragraph 2.6.4 Discard the removed fire anditioning and checks	4 for identification.		

Page 11/19 This document is available on the Internet: <u>www.airbushelicopters.com/techpub/</u>

_		_		
SAF	RAN		HELICOPTE	R ENGINES
		ULLETIN No. A2	92 26 2881	
	MANDATO	RY	ALERT	
§1.GENERAL	§2.LEVEL 1, 2	§3.LEVEL 3	§4.LEVEL 4	§5.CERTIFICATES
2.6.4. Ide	entification			
car	fer to the Guides U441 and rds.			
	he fire detector S/Ns given in After replacement of the fire			-
	Mandatory SB in section E,	on the modified engine	e. –	
	Send back the compliance of	certificate in chapter 5.1	<u>1</u> .	
	heduled maintenance changes to the scheduled r	maintenance.		
2.7. Weight a	-			
Not applica	able.	End of Section §2		

Revision 0 2022-12-19

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Revision 0 2022-12-19

Page 13/19 This document is available on the Internet: <u>www.airbushelicopters.com/techpub/</u>



Revision 0 2022-12-19

Page 14/19 This document is available on the Internet: <u>www.airbushelicopters.com/techpub/</u>

SAFRAN				
			HELICOPTE	R ENGINES
3	SERVICE BU	JLLETIN No. A	292 26 2881	
	MANDATO	RY	ALERT	
§1.GENERAL §2.	LEVEL 1, 2	§3.LEVEL 3	§4.LEVEL 4	§5.CERTIFICATES
5.1- Compliance cert	tificate of Man	latory SB No. A29	2 26 2881 - LEVEL 1	, 2, 3
Important:				
Refer to SB status ( NORIA		) in "Technical D	ocumentation" section	of the on-line
EngineLife portal.				
If the SB is identified as a "No Send the certificate back to:	oria":			
	SAFR/	N HELICOPTER EN Equipe NORIA	IGINES	
	40	220 TARNOS - Fran	ce	
If the SB is identified as a "No		nos-arriel2.fr.she@s	afrangroup.com	
Send the certificate back to:				
Equipe Admi		N HELICOPTER EN installée / Fleet Dat	IGINES a Administrator Team	, BP 25
		220 TARNOS - Fran a-fleet.fr.she@safran		
		quipment informati		
Customer			Aircraft S/N	
		S/N		P/N
Engine				
Removed fire detector				
Removed fire detector				
Removed fire detector				
Looglify that				
I certify that: • The above-men	tioned engine h	as been modified a	ccording to this Mand	atory SB.
The above-men	tioned fire dete	ctors have been dis	carded according to t	his Mandatory SB.
Date [DD/MMMM (letter)/YYYY]		Name	J	ob title
		Sig	nature:	
		Sig	nature:	
		Sig	nature:	

Revision 0 2022-12-19

Page 15/19 This document is available on the Internet: <u>www.airbushelicopters.com/techpub/</u>

#### 4.B. S/N OF FIRE DETECTORS CONCERNED BY THE SAFRAN HELICOPTER ENGINES SERVICE BULLETIN No. A292 26 2881 VERSION A

#### SN of Fire Detectors concerned by the SB A292 26 2881

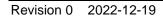
#### NS des Détecteurs Incendie concernés par le SB A292 26 2881

	-		
Fire detector	200°C	Fire detector	400°C
P/N Supplier	H243-1	P/N Supplier	H443-1
PN Safran	9550177130	PN Safran	9550177160
HE Liste des SN		HE Liste des SN	
BD21501		BN15881	
BD21501 BD21503			
BD21503 BD21504		BN15883 BN15885	
BD21505		BN15888	
BD21506		BN15889	
BD21507		BN15890	
BD21508		BN15891	
BD21509		BN15895	
BD21510		BN15896	
BD21511		BN15898	
BD21512		BN15900	
BD21513		BN15901	
BD21514		BN15906	
BD21515		BN15908	
BD21516		BN15911	
BD21517		BN15913	
BD21518		BN15916	
BD21519		BN15917	
BD21520		BN15918	
BD21521		BN15920	
BD21522		BN15921	
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BD21526		BN15925	
BD21527		BN15926	
BD21529		BN15927	
BD21530		BN15928	
BD21531		BN15929	
BD21538		BN15930	
BD21539		BN15931	
BD21540		BN15933	
BD21541		BN15936	

Revision 0 2022-12-19

Page 16/19 This document is available on the Internet: <u>www.airbushelicopters.com/techpub/</u>

BD21542	BN15937
BD21543	BN15940
BD21544	BN15942
BD21545	BN15944
BD21546	BN15945
BD21547	BN15948
BD21548	BN15949
BD21551	BN15950
BD21553	BN15951
BD21560	BN15953
BD21561	BN15956
BD21562	BN15959
BD21569	BN15963
BD21572	BN15965
BD21578	BN15967
BD21588	BN15976
BD21594	BN15978
BD21601	BN15980
BD21604	BN15983
BD21607	BN15986
BD21608	BN15988
BD21610	BN15990
BD21611	BN16004
BD21612	BN16006
BD21613	BN16008
BD21623	BN16009
BD21636	BN16010
BD21638	BN16011
BD21639	BN16012
BD21641	BN16015
BD21646	BN16017
BD21648	BN16018
BD21651	BN16019
BD21653	BN16023
BD21657	BN16025
BD21659	BN16027
BD21662	BN16028
BD21663	BN16029
BD21664	BN16030
BD21666	BN16031
BD21667	BN16038
BD21670	BN16040
BD21671	BN16045
BD21673	BN16046



Page 17/19 This document is available on the Internet: <u>www.airbushelicopters.com/techpub/</u>



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BD21676	BN16049	
BD21678	BN16052	
BD21686	BN16053	
BD21689	BN16054	
BD21691	BN16055	
BD21694	BN16060	
BD21695	BN16061	
BD21699	BN16063	
BD21700	BN16065	
BD21701	BN16066	
BD21702	BN16072	
BD21704	BN16073	
BD21705	BN16075	
BD21706	BN16076	
BD21707	BN16077	
BD21713	BN16078	
BD21717	BN16080	
BD21721	BN16081	
BD21723	BN16082	
BD21724	BN16083	
BD21728	BN16084	
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BD21731	BN16087	
BD21735	BN16089	
BD21738	BN16097	
BD21740	BN16099	
BD21742	BN16100	
BD21743	BN16102	
BD21745	BN16107	
BD21746	BN16109	
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BD21780	BN16127	

#### Revision 0 2022-12-19

Page 18/19 This document is available on the Internet: <u>www.airbushelicopters.com/techpub/</u>

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BD21781	BN16
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BD21799	BN16
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BD21877	BN16
BD21880	BN16
BD21884	BN16
BD21889	BN16
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BD21952	BN16
BD21956	BN16
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Back to paragraph <u>1.E.2.</u>

Revision 0 2022-12-19

Page 19/19 This document is available on the Internet: <u>www.airbushelicopters.com/techpub/</u>