



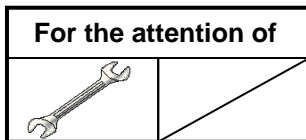
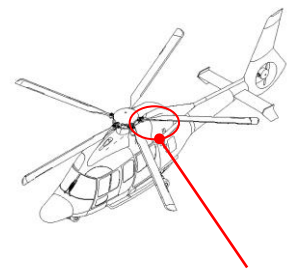
**No. EC155-26-010**

Civil version(s): B, B1

## SERVICE BULLETIN

### PROTECTIVE MEASURE

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



Revision No.	Date of issue
Revision 0	2023-01-18

### **Summary:**

The purpose of this Service Bulletin is to check and if necessary replace the non-conform engine fire detector(s) by referring to Service Bulletin No. 292 26 2882 version A from Safran Helicopter Engines.

### **Compliance:**

Airbus Helicopters recommends that you comply with this Service Bulletin.

## No. EC155-26-010

### 1. PLANNING INFORMATION

#### 1.A. EFFECTIVITY

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

Helicopters equipped with engine fire detectors MP/N H243-1 and H443-1 and with serial number (S/N) listed in Appendix [4.B.](#)

#### **NOTE**

*The Service Bulletin No. 292 26 2882 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 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 Service Bulletin because they are under Safran Helicopter Engines Type Certificate.*

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

Engine fire detectors MP/N H243-1 and H443-1 and with S/N listed in Appendix [4.B.](#)

#### 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 purpose of this Service Bulletin is to check and if necessary replace the engine fire detectors by referring to Service Bulletin No. 292 26 2882 version A from Safran Helicopter Engines.

#### 1.D. DESCRIPTION

This Service Bulletin consists to comply with Safran Helicopter Engines Service Bulletin No. 292 26 2882 version A.

## No. EC155-26-010

### 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 [4.B.](#) not more than 30 Flight Hours (FH) or 60 days after you received the revision 0 of this Service Bulletin (the first limit you get to is applicable). Refer to the date in the page footer.

- . If during the check there is one or several engine fire detector(s) identified in the Appendix [4.B.](#):
  - .. Comply with the instructions of paragraph [3.](#) of this Service Bulletin to replace the concerned engine fire detector(s) before 12 months after you received the revision 0 of this Service Bulletin.

Non-installed equipment or parts:

- Check the presence, in your stock, of engine fire detectors with a S/N as specified in the Appendix [4.B.](#) not more than 60 days after you received the revision 0 of this Service Bulletin. Refer to the date in the page footer.

- . If during the check there is one or several engine fire detector(s) identified in the Appendix [4.B.](#):
  - .. Comply with the instructions of paragraph [3.](#) of this Service Bulletin to replace the concerned engine fire detector(s) before 12 months after you received the revision 0 of this Service Bulletin or before the next installation of the engine on the helicopter (the first limit you get to is applicable).

### 1.F. APPROVAL



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

### 1.G. MANPOWER



Airbus Helicopters recommends that the personnel who will do this 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.

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### 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 Service Bulletin.

Service Bulletin (SB):

SB: 292 26 2882 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 service SB Insight

### 1.L. OTHER AFFECTED PUBLICATIONS

Not applicable.

### 1.M. PART INTERCHANGEABILITY OR MIXABILITY

Not applicable.

## No. EC155-26-010

### 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.

## No. EC155-26-010

### 3. ACCOMPLISHMENT INSTRUCTIONS

#### 3.A. GENERAL

Not applicable.

#### 3.B. WORK STEPS

Comply with the Safran Helicopter Engines Service Bulletin No. 292 26 2882 version A, refer to Appendix [4.A.](#)

#### 3.C. RECORD OF COMPLIANCE

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



#### **NOTE**

*The recording of compliance with Service Bulletin in the SB Insight tool does not replace the recording in the helicopter documents.*

[SB EC155-26-010](#)


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

Not applicable.

## No. EC155-26-010

### 4. APPENDICES

#### 4.A. SAFRAN HELICOPTER ENGINES SERVICE BULLETIN No. 292 26 2882 VERSION A



HELICOPTER ENGINES

### SERVICE BULLETIN No. 292 26 2882

<p>Version: A Date: 13 December 2022 First issue</p>	<input type="checkbox"/> Modification  <input type="checkbox"/> Periodical action <input checked="" type="checkbox"/> One-off action
<p>Applicable from: "As soon as this SB is issued"</p>	<p>Subject: Replacement of a batch of potentially non-conforming fire detectors.</p>

APPLICABLE ENGINE / VARIANT(S)	EFFECTIVITY CODE	MAINTENANCE LEVEL	CONDITION OF APPLICATION	EFFECT ON OPERATION
ARRIEL 2 B - B1 - C - C1 - C2 - C2- CG - C-PM - D - N	2-1	1,2,3	<p>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 Service Bulletin (first limit reached).</p> <p>For the engines that have at least one fire detector given in the list in the Appendix A*: Replace the concerned fire detector(s):</p> <ul style="list-style-type: none"> <li>before 9 months for the engines installed on single-engine airframes,</li> <li>before 12 months for the engines installed on twin-engine airframes and for engines in stock, from the issue of this SB or before the next installation of the engine on the airframe (first limit reached).</li> </ul>	Replacement of fire detectors.
		4	<p>For fire detectors in stock given in the list in the Appendix A*: Discard the concerned fire detector(s).</p> <p>Discard the concerned fire detectors before delivery of the engine.</p>	
		<p>Apply this SB in full compliance with the manufacturer's instructions. Refer to the effectivity code above.</p> <p>*Appendix A attached to this SB electronic version available on <i>EngineLife</i>® Customer Portal.</p>		

**CAUTION: FAILURE TO APPLY THIS SB CAN RESULT IN AN UNTIMELY DETECTION OF AN ENGINE FIRE.**

For the definition of the fields in this Service Bulletin, refer to General Service Letter No. 3041



§1.GENERAL	§2.LEVEL 1, 2	§3.LEVEL 3	§4.LEVEL 4	§5.CERTIFICATES
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## 1. GENERAL

### 1.1. Background

#### 1.1.1. Context

Safran Helicopter Engines was informed of three occurrences of illumination of the engine fire alarm without confirmed fire (untimely illumination) on airframes equipped with sealed fire detectors.

#### 1.1.2. Analysis

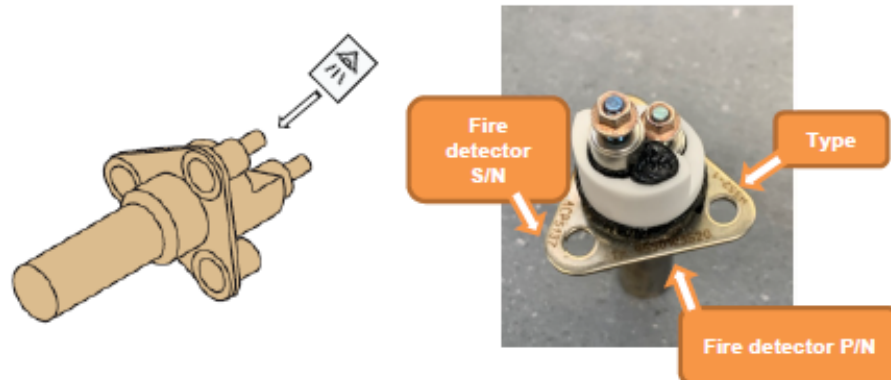
The analysis done by Safran Helicopter Engines identified a non-conformity in the production process of the fire detectors produced between January and June 2022, by the concerned supplier.

The 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.

#### 1.1.3. Solution

This Service Bulletin consists of replacing the fire detectors that could be impacted by this non-conformity.

The list of the fire detectors that could be impacted by this non-conformity is given in the Appendix A on *EngineLife®* Customer Portal.



### 1.2. Approval

- ARRIEL 2 B - B1 - C - C1 - C2 - C2-CG - C-PM variants: The design of the fire detectors installed on these variants is Airbus Helicopters responsibility, thus the technical content of this document is approved by Airbus Helicopters in agreement with the applicable Airbus Helicopters procedures.
- ARRIEL 2 D - N variants: The design of the fire detectors installed on these variants is Safran Helicopter Engines responsibility, thus the technical content of this document is approved by Safran Helicopter Engines under the authority of the DOA (Design Organisation Approval) ref. EASA.21J.070.

### 1.3. Summary of updates

Not applicable

End of Section §1

“General”





§1.GENERAL

§2.LEVEL 1, 2

§3.LEVEL 3

§4.LEVEL 4

§5.CERTIFICATES

## 2. PROCEDURE DONE AT THE OPERATOR'S SITE OR AT A MAINTENANCE CENTER APPROVED FOR LEVEL 1, 2

Refer to the [compliance certificate in chapter 5.1](#)

### 2.1. Manpower

- Personnel: 1 mechanic.
- Time: 1 man-hour.

### 2.2. Tools / Parts

- Mechanic's standard tooling.

### 2.3. Parts information

#### 2.3.1. Basic information

The list of parts is given for one engine.

#### 2.3.2. List of parts

##### 2.3.2.1. Parts for application of this SB

Fire detectors, if it is necessary to replace them.

##### 2.3.2.2. Parts for application of the maintenance tasks referred in this SB

Refer to the applicable ARRIEL 2 Maintenance Manual or Spare Parts Catalog.

#### 2.3.3. Supply conditions

##### 2.3.3.1. Contact your local Safran Helicopter Engines representative

##### 2.3.3.2. Order supplies as needed from:

Your local Safran Helicopter Engines Support Center

or

SAFRAN HELICOPTER ENGINES

Direction Support et Service

Département Commercial

40220 TARNOS - France

### 2.4. Procedures

Refer to paragraphs 2.5 and 2.6:

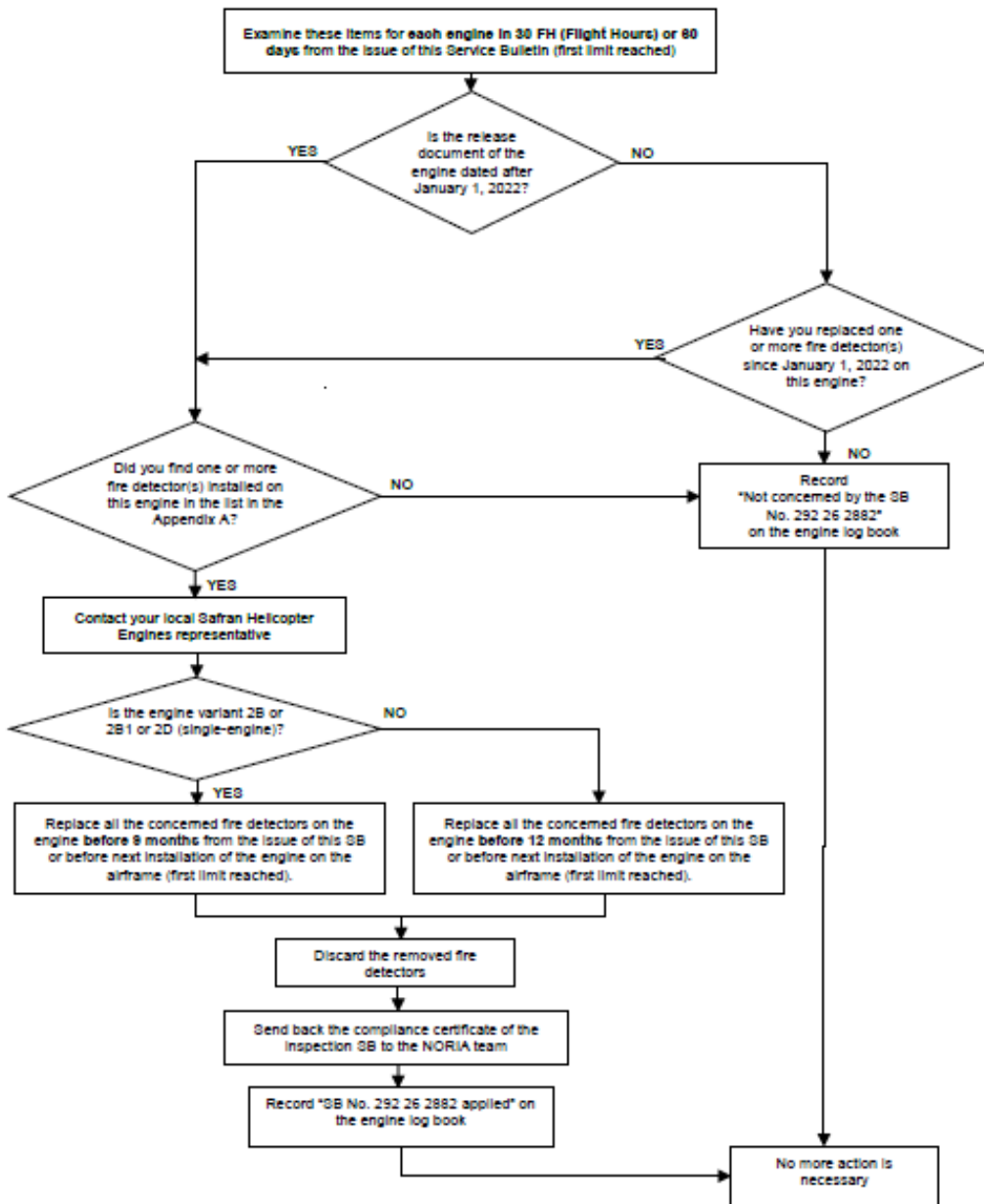
- Do a check of the fire detectors given in the list in the Appendix A to know if they are installed on the engines of your fleet or in your stocks.
- Replace the concerned fire detectors.
- Discard the concerned fire detectors.



§1.GENERAL	§2.LEVEL 1, 2	§3.LEVEL 3	§4.LEVEL 4	§5.CERTIFICATES
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### 2.5. Block diagram for this SB

#### 2.5.1. Conditions of application on engines





§1.GENERAL

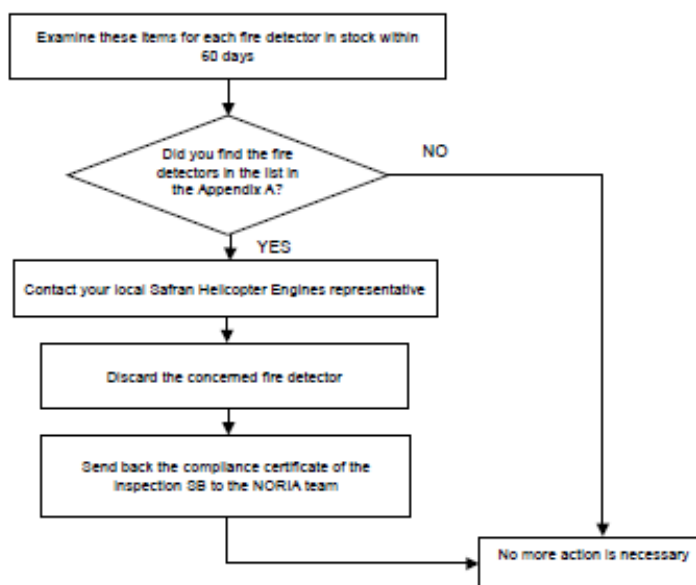
§2.LEVEL 1, 2

§3.LEVEL 3

§4.LEVEL 4

§5.CERTIFICATES

#### 2.5.2. Conditions of application on fire detectors in stock



§1.GENERAL	§2.LEVEL 1, 2	§3.LEVEL 3	§4.LEVEL 4	§5.CERTIFICATES
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## 2.6. Instructions on how to do the procedure

### 2.6.1. Implementation

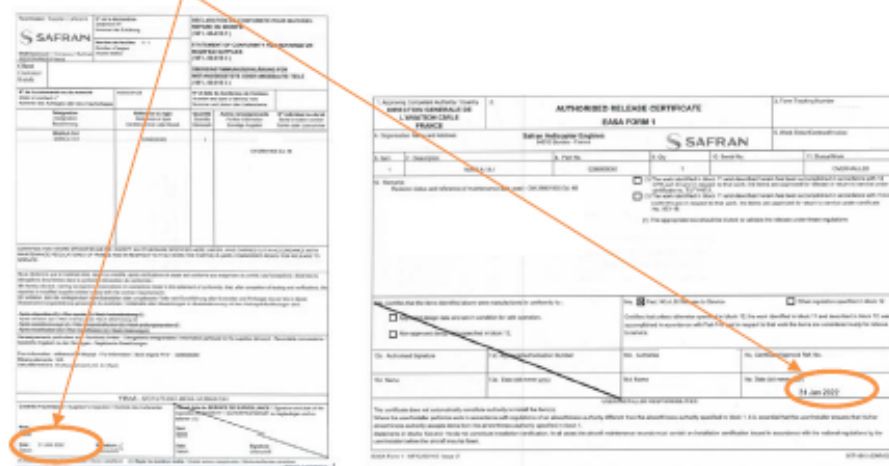
Removal of the engine can be necessary for this SB to replace the concerned fire detectors.

### 2.6.2. Operating instructions

2.6.2.1. Do a check, as specified in paragraph 2.5, of the fire detector S/Ns given in the list in the Appendix A\* to know if they are installed on your engines.

\* Appendix A attached to this SB electronic version available on *EngineLife®* Customer Portal.

**Note:** The date of the engine release document is in the release documents attached to the engine log book.



2.6.2.1.1. If the fire detector S/Ns given in the list in the Appendix A are not installed on your engines or if they are not in stock, do not do this SB.

2.6.2.1.2. If the fire detector S/Ns given in the list in the Appendix A are installed on your engines:

- Contact your local Safran Helicopter Engines representative.
- Replace the fire detectors with compliant fire detectors: Refer to the applicable ARRIEL 2 Maintenance Manual, task 26-11-00-900-801.
- Refer to paragraph 2.6.4 for identification.
- Discard the removed fire detectors.

2.6.2.1.3. If the fire detector S/Ns given in the list in the Appendix A are in stock:

- Contact your local Safran Helicopter Engines representative.
- Discard the fire detectors.

### 2.6.3. Reconditioning and checks

Not applicable.



§1.GENERAL	§2.LEVEL 1, 2	§3.LEVEL 3	§4.LEVEL 4	§5.CERTIFICATES
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### 2.6.4. Identification

Refer to the Guides U441 and U015 for instructions on how to record the engine log book and the log cards.

2.6.4.1. If your engine release document is dated before January 1, 2022.

Or

If the fire detectors were replaced after January 1, 2022 and their S/Ns are not in the list in the Appendix A of this SB.

- Record "Not concerned by the SB No. 292 26 2882" in section E.

2.6.4.2. If the fire detector S/Ns given in the list in the Appendix A are installed on your engines:

2.6.4.2.1. Record the application of this SB in section E.

2.6.4.2.2. Send back the [compliance certificate in chapter 5.1.](#)

### 2.6.5. Scheduled maintenance

No changes to the scheduled maintenance.

### 2.7. Weight and balance

Not applicable.

**End of Section §2**

**"Procedure done at the operator's site or at a Maintenance Center approved for Level 1, 2"**



§1.GENERAL

§2.LEVEL 1, 2

§3.LEVEL 3

§4.LEVEL 4

§5.CERTIFICATES

**3. PROCEDURE DONE AT A MAINTENANCE CENTER APPROVED FOR LEVEL 3 OR AT THE OPERATOR'S SITE BY A MAINTENANCE CENTER APPROVED FOR LEVEL 3**

Refer to the paragraphs of section [§2](#) related the Maintenance Centers approved for Level 1, 2.

**End of section §3**

**“Procedure done AT a maintenance center approved for level 3 OR AT THE OPERATOR'S SITE BY a Maintenance Center approved for Level 3”**



§1.GENERAL	§2.LEVEL 1, 2	§3.LEVEL 3	§4.LEVEL 4	§5.CERTIFICATES
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#### 4. PROCEDURE DONE AT A REPAIR CENTER APPROVED FOR LEVEL 4

Refer to the [compliance certificate in chapter 5.1](#)

##### 4.1. Manpower

- Personnel of approved Repair Center.
- Time calculated by the Repair Center for this level of intervention.

##### 4.2. Tools / Parts

Refer to the ARRIEL 2 Overhaul Manual.

##### 4.3. Parts information

###### 4.3.1. Basic information

Not applicable.

###### 4.3.2. List of parts

Refer to the ARRIEL 2 Overhaul Manual.

###### 4.3.3. Supply conditions

Order supplies as needed from:  
Your local Safran Helicopter Engines Support Center  
or  
SAFRAN HELICOPTER ENGINES  
Direction Support et Service  
Département Commercial  
40220 TARNOS - France

##### 4.4. Procedures

- Do a check of the fire detectors given in the list in the Appendix A to know if they are installed on the engine or if they are in your stocks.
- Replace the concerned fire detectors, refer to paragraph 4.6.
- Discard the concerned fire detectors.

##### 4.5. Block diagram for this SB

Not applicable.

##### 4.6. Instructions on how to do the procedure

###### 4.6.1. Implementation

Not applicable.



§1.GENERAL	§2.LEVEL 1, 2	§3.LEVEL 3	§4.LEVEL 4	§5.CERTIFICATES
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### 4.6.2. Operating instructions

4.6.2.1. Fire detectors installed on the engine:

4.6.2.1.1. Do a check of the fire detector S/Ns.

4.6.2.1.2. If the fire detector S/Ns are not in the list of the concerned S/Ns in the Appendix A of this SB:  
No action necessary under this SB.

4.6.2.1.3. If one or several fire detector S/Ns are in the list of the concerned S/Ns in the Appendix A of this SB:

- Replace the fire detectors with compliant fire detectors: Refer to the ARRIEL 2 Overhaul Manual.
- Discard the concerned fire detectors.
- Refer to paragraph 4.6.4 for identification.

4.6.2.2. Fire detectors in stock:

4.6.2.2.1. Do a check of the fire detector S/Ns.

4.6.2.2.2. If the fire detector S/Ns are not in the S/N list in the Appendix A of this SB:  
No more action is necessary.

4.6.2.2.3. If one or several fire detector S/Ns are in the list of the concerned S/Ns in the Appendix A of this SB:

- Discard the concerned fire detectors.
- Refer to paragraph 4.6.4 for identification.

### 4.6.3. Reconditioning and checks

Refer to the ARRIEL 2 Overhaul Manual.

### 4.6.4. Identification

Refer to the Guides U441 and U015 for instructions on how to record the engine log book and the log cards.

If one or several fire detector S/Ns are in the list of the concerned S/Ns in the Appendix A of this SB:

4.6.4.1. Fire detectors installed on the engine:

- Record the application of this SB in section E.
- Send back the [compliance certificate in chapter 5.1](#).

4.6.4.2. Fire detectors in stock:

- Send back the [compliance certificate in chapter 5.1](#).

### 4.6.5. Scheduled maintenance

No changes to the scheduled maintenance.

### 4.7. Weight and balance

Not applicable.

**End of Section §4**

**"Procedure done at a Repair Center approved for Level 4"**



## No. EC155-26-010



HELICOPTER ENGINES

### SERVICE BULLETIN No. 292 26 2882

§1.GENERAL

§2.LEVEL 1, 2

§3.LEVEL 3

§4.LEVEL 4

§5.CERTIFICATES

#### 5.1- Compliance certificate of SB No. 292 26 2882 - LEVEL 1, 2, 3, 4

##### Important:

Refer to SB status ( **NORIA** or **NORIA TERMINEE** ) in "Technical Documentation" section of the on-line EngineLife portal.

*If the SB is identified as a "Noria":*

Send the certificate back to:

**SAFRAN HELICOPTER ENGINES**  
Equipe NORIA  
40220 TARNOS - France

Email: [noria-tarnos-arriel2.fr.she@safrangroup.com](mailto:noria-tarnos-arriel2.fr.she@safrangroup.com)

*If the SB is identified as a "Noria terminée" (Completed Noria):*

Send the certificate back to:

**SAFRAN HELICOPTER ENGINES**  
Equipe Administration Base installée / Fleet Data Administrator Team, BP 25  
40220 TARNOS - France

Email: [data-fleet.fr.she@safrangroup.com](mailto:data-fleet.fr.she@safrangroup.com)

Equipment information		
Customer		Aircraft S/N
	S/N	P/N
Engine		
Removed fire detector		
Removed fire detector		
Removed fire detector		

##### I certify that:

- The above-mentioned engine has been modified according to this SB.
- The above-mentioned fire detectors have been discarded according to this SB.

Date [DD/MMMM (letter)/YYYY]	Name	Job title

Signature:

### No. EC155-26-010

#### 4.B. S/N OF FIRE DETECTORS CONCERNED BY THE SAFRAN HELICOPTER ENGINES SERVICE BULLETIN No. 292 26 2882 VERSION A

SN of Fire Detectors concerned by the SB 292 26 2882

Fire detector	200°C	Fire detector	400°C
P/N Supplier	H243-1	P/N Supplier	H443-1
PN Safran HE	9550177130	PN Safran HE	9550177160
Liste des SN		Liste des SN	
BD21501		BN15881	
BD21503		BN15883	
BD21504		BN15885	
BD21505		BN15888	
BD21506		BN15889	
BD21507		BN15890	
BD21508		BN15891	
BD21509		BN15895	
BD21510		BN15896	
BD21511		BN15898	
BD21512		BN15900	
BD21513		BN15901	
BD21514		BN15906	
BD21515		BN15908	
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BD21541		BN15936	
BD21542		BN15937	
BD21543		BN15940	
BD21544		BN15942	
BD21545		BN15944	
BD21546		BN15945	
BD21547		BN15948	
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BD21551		BN15950	

## No. EC155-26-010

BD21553		BN15951	
BD21560		BN15953	
BD21561		BN15956	
BD21562		BN15959	
BD21569		BN15963	
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BD21671		BN16045	
BD21673		BN16046	
BD21676		BN16049	
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BD21686		BN16053	
BD21689		BN16054	
BD21691		BN16055	
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BD21699		BN16063	
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BD21702		BN16072	
BD21704		BN16073	

## No. EC155-26-010

BD21705		BN16075	
BD21706		BN16076	
BD21707		BN16077	
BD21713		BN16078	
BD21717		BN16080	
BD21721		BN16081	
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BD21820		BN16150	

### No. EC155-26-010

BD21821		BN16151	
BD21822		BN16152	
BD21824		BN16154	
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BD21869		BN16170	
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BD21889		BN16182	
BD21915		BN16183	
BD21952		BN16185	
BD21956		BN16189	
		BN16190	
		BN16194	
		BN16195	
		BN16225	

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