

# GENERAL SERVICE LETTER

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**General Service Letter no. 3003/18 – 2<sup>nd</sup> issue**

**This Service Letter supersedes the issue 3003/18 dated 11<sup>TH</sup> July, 2018.**

**Subject: All engines**

**Introduction of a summary document pertaining to  
equipment configuration and airworthiness - ENR1808.**

Dear Sir or Madam,

As part of our continuous focus on ways to increase customer's satisfaction, Safran Helicopter Engines is now including a summary document along with the engine publications that are provided with each engine or module delivery.

Following experience feedback of the engine ENR1808 rolled out in New Production as of January 1st, 2017 and in Repair Center as of 2018, Safran Helicopter Engines introduces ENR1808 for modules processed in New Production and Repair Center. This document will provide you with a summary of the status of application of Airworthiness Directives, Service Bulletins and modifications on module delivery.

## DESCRIPTION OF THE ENGINE & MODULE ENR1808

The new version of the ENR1808 will provide you with the following information (specific to each engine or module variant):

- Any existing Airworthiness Directives from the OSAC, EASA and FAA excluding the superseded Directives,
- All Service Bulletins excluding SB incorporated in the documentation, "deleted", "obsolete", "superseded", "declassified", "not applicable" (classification codes: A, D, S, and NA in Service Bulletins indexes),
- All the modifications (called for example TU or TF) excluding the abandoned modifications, declassified or with the status N/A or 0 in the modifications index,
- The title of the Airworthiness Directive, Service Bulletin or modification along with the existing relations between these 3 documents.

For a given engine or module serial number, the document will also indicate:

- The status of application of Airworthiness Directives, Service Bulletins or modifications regarding this S/N,
- The need for recurrence or not regarding the application of the Airworthiness Directives and Service Bulletins

- Substantiations for the code status (1) "Not applicable" for Airworthiness Directives or Mandatory Service Bulletins (see below).

### RULES FOR FILLING OUT THE ENGINE & MODULE ENR1808

The application statuses of Airworthiness Directives, Service Bulletins and modifications are indicated in the "**Statut / Status**" column. To help reading the document, they have been harmonized and will be coded as follows:

(1)	Non Applicable / Not applicable	The engine is not affected by the AD, SB or modification (e.g.: the AD applies to a S/N batch different from that of the engine affected by the ENR1808) See NOTE 1 and 2
(2)	A appliquer / To be applied	The engine is affected by the AD or SB but the application must be performed after the delivery of the engine according to the application code specified in the said AD or SB.
(3)	Appliqué / Applied	Upon delivery, the AD or SB or TU is applied on the engine.
(4)	Non Appliqué / Not Applied	Upon delivery, the SB or modification is not applied.
(B)	Modification de Base / Basic Modification	The modification is incorporated in the engine configuration since the certification of the concerned variant.

**Note 1:** Whenever an accessory or equipment is missing or partially missing and an AD, SB or TU concerns this accessory, the "Not applicable" mention will therefore be recorded (code: 1) in the ENR1808 upon engine delivery.

**Note 2:** Whenever an Airworthiness Directive, Service Bulletin or Modification has the "Not applicable" status code (1), the substantiation will be provided on the second-last page of the form. The line No. indicated in the first column of the list will make the link with the substantiation list.

The application statuses will be completed by an information stating whether the Airworthiness Directives or Service Bulletins need to be applied on a recurring basis. The column "**O / R**" column will contain this information according to the following codes:

(O)	Application non récurrente / One-off application	The application of this AD or SB is performed on a one-time basis.
(R)	Application récurrente / Recurring application	The application of this AD or SB is recurring and will have to be considered by the operator for its maintenance plan according to the conditions defined by the AD or SB.

**Note 3:** For the Airworthiness Directives cancelled, the Modifications and Service Bulletin or Airworthiness Directives with "1 – Not applicable" status, the field will be filled in with "/".

Appendix 1 shows an extract of the ENR1808.

Appendix 2 shows an example of substantiation page of AD and Mandatory SB with the "Not applicable" status (code (1)).

Appendix 3 shows an example of modular ENR1808.

Finally, the last page of the ENR1808 reminds of the filling out and exclusion rules.

## IMPLEMENTATION OF ENGINE & MODULE ENR1808

Status of engine ENR1808 implementation:

- **New Production: All engine variants** released with ENR1808
- **Repair Center: 26 civil engine variants** released with ENR1808

ARRIEL 1C1, 1C2, 1D1, 1E2	ARRIUS 1A1	MAKILA 1A, 1A1, 1A2
ARRIEL 2B, 2B1, 2B1A	ARRIUS 2B1, 2B1A, 2B2	MAKILA 2A, 2A1
ARRIEL 2C, 2C2, 2C2CG	ARRIUS 2F	
ARRIEL 2D	ARRIUS 2G1	
ARRIEL 2E	ARRIUS 2R	
ARRIEL 2S1, 2S2		

In New Production and Repair Center, the modular ENR1808 will be first implemented as of November 2021 for ARRIEL 2D and 2E variants.

We would like to remind you that the information contained in the ENR1808 is valid at the time of the document signature.

Please contact us if you require further information or assistance.

Yours sincerely,



J.F. ESCURET  
Technical Support Department

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APPENDIX 1 – ENR1808

List of Airworthiness Directives - Service Bulletins and Modifications

Annexe 1 Appendix 1		Moteur / Engine ARRIEL 1E2	S/N	Liste des Consignes de Navigabilité, Services Bulletins et Modifications à la date de signature du présent document Airworthiness Directives, Service Bulletins and Modifications list printed at time of signature		O/R
Line n°	OSAC EASA	FAA	SB	DESCRIPTION - COMMENTAIRES / DESCRIPTION - COMMENTS		Status / Status
No. C.N. / A.D.						
1	94-218(B)	/	292 77 0194	/	Overspeed sensor	1 O
2	2002-126(A)	2003-03-12	292 72 0275	TU316A	Centrifugal impeller	3 O
3	2006-0068	2007-02-17	A292 73 0251	/	Engine - Fuel leaks on the start electro valve - Inspection	3 R
4	2012-0117	2012-27-02	/	/	Engine - Gas Generator Rolling Assembly and Rear Bearing - Check / Replacement	2 R
5	2012-0187R2	2013-08-22	/	/	Engine - Airworthiness Limitation Section - Cycle Counting Aid System - Modification/Amendment	3 R
6	2013-0120	2013-24-05	A292 72 0838	/	Engine - Free Turbine Bearing Plug - Inspection / Rework	3 O
7	/	/	292 71 0846	/	Modification of ARRIEL 1 A1, A2, B, C, C1, C2, D, D1, E2, K, K1, S and S1 turboshaft engines and/or modules at a Safran Helicopter Engines-approved Repair Center.	3 O
8	/	/	292 72 0234	/	Module M04, Replacement of the turbine wheel and of the roller bearing according to the Maintenance Technical Instruction (MTI) Ref. X 292_A9 324_2.	2 O
9	/	/	/	TU1	Fitting of a power output shaft made of a tube (3 mm thick)	B /
10	/	/	/	TU2	Compressor casing, Fitting of cast stators and deletion of seal holder groove for its liaison with the accessory plate	B /
11	/	/	292 72 0081	TU122	Gas generator. Installation of an injection wheel made of a material obtained from powder metallurgy	4 O
12	/	/	/	TU125	Fuel control unit. Addition of a 0.5 mm jet on the metering valve downstream pressure circuit of the constant AP valve	B /
13	/	/	292 73 0386	TU386	Injection wheel/ overspeed drain valve. Replacement of the upper diaphragm.	4 R

Nota. - Cette liste reflète le statut du moteur à la date de signature de ce document et ne prend pas en compte toute modification postérieure à la date de signature de ce document  
 Nota. - the list below reflects the engine status at the time of the signature of the document. It does not take into account any modification after signature of this document

Date	Signature	Tampon Stamp

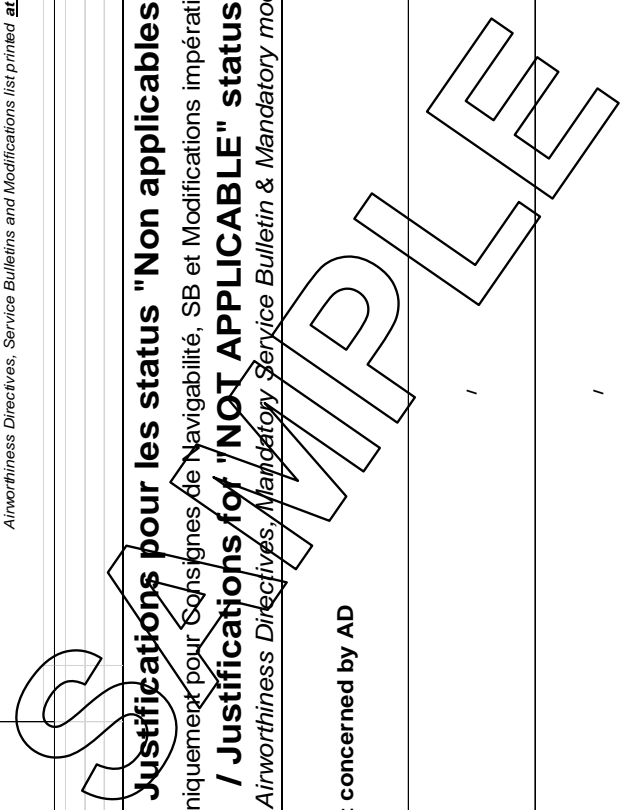
\*1 - Non Applicable / Not Applicable  
 \*2 - A Appliquer / To Be Completed  
 \*3 - Appliqué / Complicated With  
 \*4 - Non appliqué / Not Complicated With  
 \*B - Modification de Base / Basis Modification

Colonne / Column O, R, / :  
 \*O - Application non récurrente / One Time Application  
 \*R - Opération récurrente / Recurrent operation  
 \*J - A utiliser pour CN annulée / To be used for cancelled AD

APPENDIX 2 – ENR1808

Substantiations

Annexe 1 Appendix 1	Moteur / Engine ARRIEL 1E2	S/N	Liste des Consignes de Navigabilité, Services Bulletins et Modifications à la date de signature du présent document <i>Airworthiness Directives, Service Bulletins and Modifications list printed at time of signature</i>
Line n°			
1			<p><b>Justifications pour les status "Non applicables"</b> (uniquement pour Consignes de Navigabilité, SB et Modifications impératives) <b>/ Justifications for "NOT APPLICABLE" status</b> (only for Airworthiness Directives, Mandatory Service Bulletin &amp; Mandatory modifications)</p>
/			
/			Sensor already replaced. P/N is not concerned by AD
/			



\*1 - Non Applicable / Not Applicable  
 \*2 - A Appliqué / To Be Completed  
 \*3 - Appliqué / Completed With  
 \*4 - Non appliqué / Not Completed With  
 \*B - Modification de Base / Basis Modification  
 Colonne / Column: O, R, "":  
 \*O - Application non récurrente / One Time Application  
 \*R - Opération récurrente / Recurrent operation  
 \*/ - A utiliser pour CN annulée / To be used for cancelled AD  
 ENR 1808 C

Date	Signature	Tampon Stamp

APPENDIX 3 – ENR1808  
Example of modular ENR1808

Annexe 1 Appendix 1		Module / Module ARRIEL 2D		S/N EXAMPLE123		Liste des Consignes de Navigabilité, Services Bulletins et Modifications à la date de signature du présent document Airworthiness Directives, Service Bulletins and Modifications list printed at time of signature		
<p>Mora : Cette liste reflète le statut du moteur à la date de signature de ce document et ne prend pas en compte toute modification postérieure à la date de signature de ce document                      N.B. : The list below reflects the engine status at the time of the signature of the document. It does not take into account any modification after signature of this document</p> <p>Statut / Status: *1 - Non Applicable / Not Applicable                      *2 - A Appliquer / To be applied                      *3 - Appliqué / Applied                      *4 - Non appliqué / Not applied                      *B - Modification de Base / Basic Modification</p> <p>Colonne / Column:                      "O / R" : *O - Application non récurrente / One-off Application                      *R - Operation récurrente / Recurrent operation                      * / - A utiliser pour CN annulée et remplacée ou Modification / To be used for cancelled and superseded AD or Modification</p>								
				Date		Signature		
						Tampon / Stamp		
Ligne n° Line No.	OSAC EASA	FAA	Autres / Others :	SB	Modif N° TU / TF / C	DESCRIPTION - COMMENTAIRES / DESCRIPTION - COMMENTS	Statut / Status	O / R
1	/	/	/	292 72 2870	/	Engine log book in electronic format.	4	O
2	/	/	/	292 72 2871	/	Conversion from electronic to paper engine log book.	4	O
3	/	/	/	292 72 2874	/	Module M02 (Axial compressor). Application of silicone elastomeric / le equipped jet.	4	O
4	/	/	/	TU54	/	M02. Installation of a sleeve in the attachment boss of the bleed valve.	B	/
5	/	/	/	TU70A	/	M02. Bonding of sleeve in the bleed valve mounting boss.	B	/
6	/	/	/	TU116A	/	M02. Reduced clearances on the front and rear labyrinths of the compressor bearing chamber.	B	/
7	/	/	/	TU153	/	Module M02 (Axial compressor). Redefinition of the pressurization of the front bearing.	B	/
8	/	/	/	292 72 2212	/	Module M02 (Axial compressor). Replacement of front and rearaxial bearings.	3	/
9	/	/	/	292 72 2222	/	Module M02 (Compressor) - Replacement of the equipped jet.	3	/