

Modification ⊠	Recurring action	One-off action
	No	o. 292 72 2044
ARRIEL 2 B - B1 - C - C-F	PM - C1 - S1	
Subject: Module M03 (grear abradable	gas generator). Widening o	of the labyrinth shroud
Application of	modification TU 44A.	
conditions of application.	effective and must systematically be (parts, tools, documentation, etc.)	
	Applicable from APRIL 2000	
If resources (parts, tools, docume the effectivity date.	ntation, etc.) are available any earliei	r, the SB may be applied prior to
<u>Version</u> : C		



1. Planning information

A. Effectivity

The manufacturer recommends this modification be incorporated as defined in this Service Bulletin.

Validity	Code
ARRIEL 2 B - B1 ARRIEL 2 C - C-PM - C1 ARRIEL 2 S1	3

Conditions of application for engines in service

(1) Application at the operator's site or at a Safran Helicopter Engines-approved Maintenance Center

Application upon customer request or following depletion of the existing stock.

(2) Application at a Safran Helicopter Engines-approved Repair Center Application following depletion of the existing stock.

B. Purpose

Delete a cause of damage of the extremity of labyrinth shroud rear abradable layer.

C. Description

This modification consists of increasing the width of rear abradable layer and to delete labyrinth shroud front abradable layer.

D. Approval

- ARRIEL 2 B B1 C C1 S1 variants:
 The technical content of this document is approved under the authority of the DOA (Design Organisation Approval) ref. EASA.21J.070.
- ARRIEL 2 C-PM variant:
 The technical information given in this document is approved by Safran Helicopter Engines.

E. Manpower

- (1) At the operator's site or at a Safran Helicopter Engines-approved Maintenance Center
 - (a) Personnel: 1 mechanic.
 - **(b) Time required:** 12 man-hours (module M03 removal/installation).
- (2) At a Safran Helicopter Engines-approved Repair Center
 - (a) Personnel of approved Repair Center.
 - **(b) Time** defined by Repair Center for the level of this intervention.

F. Material

Refer to paragraph 3.



G. Tooling

- (1) At the operator's site or at a Safran Helicopter Engines-approved Maintenance Center
 - (a) Standard mechanic's tooling.
 - **(b)** Tooling for module M03 removal/installation: refer to the applicable ARRIEL 2 Maintenance Manual.
- (2) At a Safran Helicopter Engines-approved Repair Center Refer to the ARRIEL 2 Overhaul Manual.

H. Weight and balance

Not applicable.

I. References

	 (1) ARRIEL 2 B Maintenance Manual (2) ARRIEL 2 B1 Maintenance Manual (3) ARRIEL 2 C Maintenance Manual (4) ARRIEL 2 C-PM Maintenance Manual (5) ARRIEL 2 C1 Maintenance Manual (6) ARRIEL 2 S1 Maintenance Manual (7) ARRIEL 2 Overhaul Manual 	Ref. X 292 N5 450 2. Ref. X 292 M1 450 2. Ref. X 292 P1 450 2. Ref. X 292 N4 450 2. Ref. X 292 L0 301 2.
J.	Other publications affected	
	(1) ARRIEL 2 B Spare Parts Catalogue	Ref. X 292 M5 700 2.
	(2) ARRIEL 2 B1 Spare Parts Catalogue	Ref. X 292 N5 700 2.
	(3) ARRIEL 2 C Spare Parts Catalogue	Ref. X 292 M1 700 2.
	(4) ARRIEL 2 C-PM Spare Parts Catalogue	Ref. X 292 P1 700 2.
	(5) ARRIEL 2 C1 Spare Parts Catalogue	Ref. X 292 N4 700 2.
	(6) ARRIEL 2 S1 Spare Parts Catalogue	Ref. X 292 L0 700 2.
	(7) ARRIUS 2 B Illustrated Parts Catalogue	Ref. X 292 M5 600 2.
	(8) ARRIUS 2 B1 Illustrated Parts Catalogue	Ref. X 292 N5 600 2.
	(9) ARRIUS 2 C Illustrated Parts Catalogue	Ref. X 292 M1 600 2.
	(10) ARRIUS 2 C-PM Illustrated Parts Catalogue	Ref. X 292 P1 600 2.
	(11) ARRIUS 2 C1 Illustrated Parts Catalogue	Ref. X 292 N4 600 2.
	(12) ARRIUS 2 S1 Illustrated Parts Catalogue	Ref. X 292 L0 600 2.



2. Instructions to be incorporated

A. Implementation

The engine must be removed from the helicopter.

This modification can be performed:

(1) At the operator's site or at a Safran Helicopter Engines-approved Maintenance Center

With replacement of module M03: refer to the applicable ARRIEL 2 Maintenance Manual, task 72-00-43-900-801.

(2) At a Safran Helicopter Engines-approved Repair Center
With replacement of labyrinth shroud: refer to the ARRIEL 2 Overhaul Manual.

B. Operating instructions

- (1) At the operator's site or at a Safran Helicopter Engines-approved Maintenance Center
 - (a) Remove PRE TU 44A module M03: refer to the applicable ARRIEL 2 Maintenance Manual, task 72-00-43-900-801.
 - **(b)** Install POST TU 44A module M03: refer to the applicable ARRIEL 2 Maintenance Manual, task 72-00-43-900-801.
- (2) At a Safran Helicopter Engines-approved Repair Center Refer to the ARRIEL 2 Overhaul Manual.

C. Reconditioning and checks

- (1) At the operator's site or at a Safran Helicopter Engines-approved Maintenance Center
 - (a) Do a ground-run check: refer to the applicable ARRIEL 2 Maintenance Manual, task 71-02-13-280-801.
 - **(b)** Do an oil pressure check: refer to the applicable ARRIEL 2 Maintenance Manual, task 79-00-00-200-801.
 - (c) Do a vibration check: refer to the applicable ARRIEL 2 Maintenance Manual, task 71-02-10-760-801.
- (2) At a Safran Helicopter Engines-approved Repair Center Refer to the ARRIEL 2 Overhaul Manual.



D. Identification

- (1) At the operator's site or at a Safran Helicopter Engines-approved Maintenance Center
 - (a) Update the log card of the removed module M03 and the log card of the installed module M03.
 - **(b)** Record the module M03 replacement in section "B" of the engine log book and integrate the log card of the installed module M03.
 - (c) Record the application of this SB in section "D" of the "current" engine log book or in section "E" of the "unique" engine log book.
 Note: Update the availability status, if necessary.
 - (d) Send back the removed module M03, along with its log card, to a Safran Helicopter Engines-approved Repair Center.
 - **(e)** Tell Safran Helicopter Engines that module M03 has been replaced by sending back the fully-completed compliance certificate (Appendix 1 of this SB).
- (2) At a Safran Helicopter Engines-approved Repair Center
 - (a) Record the application of this SB in the module M03 log card. **Note:** Update the availability status, if necessary.
 - **(b)** Tell Safran Helicopter Engines that this SB has been applied by sending back the fully-completed compliance certificate (Appendix 2).

E. Routine maintenance

Not applicable.



3. Material information

A. Basic information

The parts required for the incorporation of this Service Bulletin are for one engine.

B. List of parts

(1) At the operator's site or at a Safran Helicopter Engines-approved Maintenance Center

POST TU 44A module M03.

(2) At a Safran Helicopter Engines-approved Repair Center

New Part Number	Key	Qty	Description	Old Part Number	Key	Qty
0 292 37 789 0	Α	1	Labyrinth shroud	0 292 37 783 0	С	1

Key

A - Part incorporated by the modification.

C - Part deleted by the modification.

C. 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



Objet: Attestation de remplacement du module M03 par application du SB n° 292 72 2044 (TU 44A).

Subject: Compliance certificate for replacement of module M03 through

application of the SB No. 292 72 2044 (TU 44A).

Important / Important notice:

Après application des instructions spécifiées dans ce SB, veuillez compléter la présente attestation et la retourner par courrier ou courriel à :

After application of the instructions specified in this SB, please mail or email the fully-completed compliance certificate to:

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

Email: data-fleet.fr.she@safrangroup.com

	Information	concernan	t le matériel / Ed	quipment inf	ormation		
Utilisateur Customer					N° Appar Aircraft S		
	N/S - S/N	Ré	f P/N	TSN*	TSO*	CSN*	CSO*
Moteur Engine							
Module M03 déposé Removed module M03							
Module M03 posé Installed module M03							
* TSN = Time Since New CSN = Cycles Since Ne			TSO = Time Sin CSO = Cycles S				
Opération faite par / \	Nork done by:						
Je certifie que le mod							s SB.

Date [JJ/MMMM (en lettre)/AAAA ou/or DD/MMMM (letter)/YYYY]	Nom / Name	Fonction / Job title

	Signature :
ANNEXE 1 / APPENDIX 1	



Objet: Attestation d'application du SB n° 292 72 2044 (TU 44A).

Subject: SB No. 292 72 2044 compliance certificate (TU 44A).

Important / Important notice:

Après application des instructions spécifiées dans ce SB, veuillez compléter la présente attestation et la retourner par courrier ou courriel à :

After application of the instructions specified in this SB please mail or email the fully-completed certificate to:

SAFRAN HELICOPTER ENGINES,

Equipe Administration Base installée / Fleet Data Administrator Team, BP 25

40220 TARNOS - France

Email: data-fleet.fr.she@safrangroup.com

	Information conce	ernant le matériel / E	quipment inf	ormation		
Utilisateur Customer				N° Appar Aircraft S		
	N/S - S/N	Réf P/N	TSN*	TSO*	CSN*	CSO*
Moteur Engine						
Module M03 modifié Modified module M03						
Enveloppe labyrinthe AVANT TU 44A déposée Removed PRE TU 44A labyrinth shroud						
Enveloppe labyrinthe APRES TU 44A posée Installed POST TU 44A labyrinth shroud						
* TSN = Time Since New (HCSN = Cycles Since New		TSO = Time Si CSO = Cycles				
Opération faite par / Wo	ork done by:					
Je certifie que le modul	e identifié ci-dess	us a été modifié sele	on les direct	tives de ce	SB.	

Je certifie que le module identifié ci-dessus a été modifié selon les directives de ce SB. I certify that the above-mentioned module has been modified according to the directives given in this SB.

Date [JJ/MMMM (en lettre)/AAAA ou/or DD/MMMM (letter)/YYYY]	Nom / Name	Fonction / Job title

ANNEXE 2 / APPENDIX 2