

MANDATORY SERVICE BULLETIN

ARTOUSTE III**No. A218 73 0803**

Subject: Equipment/accessory. Check for cracks on lower union of flexible fuel pipe between electric fuel cock and start valve.

The technical information contained in this document has been approved under the Design Organization Approval No. EASA.21J.070, on 02.05.2006 (Ref. FA 2006/017).

1. Compliance

A. Application

CAUTION: FAILURE TO INCORPORATE THIS MANDATORY SERVICE BULLETIN MAY LEAD TO AN UNCOMMANDED LOSS OF POWER WHICH, ON A SINGLE-ENGINE HELICOPTER, LEADS TO AN EMERGENCY AUTOROTATION LANDING OR MAY EVEN CAUSE FUEL LEAKAGE LIKELY TO CATCH FIRE.

Incorporation of this Service Bulletin is considered mandatory as a result of a technical requirement which might affect flight safety. It may be done immediately or to accommodate an existing schedule.

Validity	Code
ARTOUSTE III B - B1 engines	1-B

- On all fuel pipes between the electric fuel cock and the start valve with **P/N 0 202 12 800 0**.

Conditions of application for engines in service

- (1) Application at the operator's site or at a TURBOMECA-approved Service Station**
During next maintenance operation (engine or helicopter) and by **August 1, 2006** at the latest.
- (2) Application at a TURBOMECA-approved Repair Center**
Upon first return to an approved Repair Center, regardless of the reason for return.

B. Purpose

This check consists of looking for cracks on the lower union (start valve side) of the flexible pipe between the electric fuel cock and the start valve.

3 occurrences of cracks have been detected on the unions of fuel pipes P/N 0 202 12 800 0 caused by exfoliating corrosion.

Left undetected, these cracks could have led to the disintegration of the union which contains pressurized fuel. Fuel leakage would have led to an uncommanded loss of power and the fuel could have caught fire.

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The vertical position of the union facilitates retention of various products (washing fluids, salt water, etc.) which may initiate corrosion.

This check will subsequently be incorporated into the Maintenance Manual and will be performed during the 200 hour periodic inspection.

C. Description (see Appendix)

This check necessitates removing the fuel pipe between the electric fuel cock and the start valve to allow a visual inspection for cracks on the lower union of this pipe (start valve side) using a magnifying glass.

D. Approval

The technical information contained in this document has been approved under the Design Organization Approval No. EASA.21J.070.

This mandatory Service Bulletin is subject to an Airworthiness Directive.

E. Manpower

(1) At the operator's site or at a TURBOMECA-approved Service Station

(a) Personnel: 1 mechanic.

(b) Time: 30 minutes (removal/installation of the pipe and visual inspection for cracks on one engine).

(2) At a TURBOMECA-approved Repair Center

(a) Personnel of approved Repair Center.

(b) Time determined by the Repair Center as being appropriate for this level of intervention.

F. Material

Refer to paragraph 3.

G. Tooling

(1) At the operator's site or at a TURBOMECA-approved Service Station

Refer to the Maintenance Manual for pipe removal/installation procedure.

Magnifying glass: x6.

(2) At a TURBOMECA-approved Repair Center

Refer to the Overhaul Manual.

H. Weight and balance

Not applicable.

I. References

(1) ARTOUSTE III B - B1 Maintenance Manual Ref. 218 00 935.

(2) ARTOUSTE III B - B1 - BF - D Overhaul Manual..... Ref. 218 00 936.

J. Other publications concerned

Not applicable.

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2. Instructions to be incorporated

A. Implementation (see Appendix)

This check may be performed without removing the engine from the helicopter.

(1) At the operator's site or at a TURBOMECA-approved Service Station

Remove fuel pipe **P/N 0 202 12 800 0** between electric fuel cock and start valve and perform visual inspection for cracks on lower union of this pipe (start valve side), using magnifying glass.

(2) At a TURBOMECA-approved Repair Center

Remove fuel pipe **P/N 0 202 12 800 0** between electric fuel cock and start valve and perform visual inspection for cracks on lower union of this pipe (start valve side), using magnifying glass.

B. Operating instructions (see Appendix)

(1) At the operator's site or at a TURBOMECA-approved Service Station

(a) Remove fuel pipe **P/N 0 202 12 800 0** between electric fuel cock and start valve: refer to Maintenance Manual, chapters 73-10-5 and 73-10-6.

(b) Using magnifying glass (minimum: x6), perform visual check for cracks on lower union (pipe start valve side).

(c) If cracks are found, replace pipe: refer to the Maintenance Manual.

(d) Install fuel pipe between electric fuel cock and start valve: refer to Maintenance Manual, chapters 73-10-5 and 73-10-6.

(2) At a TURBOMECA-approved Repair Center

(a) Remove fuel pipe **P/N 0 202 12 800 0** between electric fuel cock and start valve: refer to Overhaul Manual, chapter 71-00-00.

(b) Using magnifying glass (minimum: x6), perform visual inspection for cracks on lower union (pipe start valve side).

(c) If cracks are found, replace pipe: refer to the Overhaul Manual.

(d) Install fuel pipe between electric fuel cock and start valve: refer to Overhaul Manual, chapter 71-00-00.

C. Reconditioning and checks

(1) At the operator's site or at a TURBOMECA-approved Service Station

Perform a ground run check: refer to Maintenance Manual, chapter 71-00-04.

(2) At a TURBOMECA-approved Repair Center

Refer to the Overhaul Manual.

D. Identification

(1) At the operator's site or at a TURBOMECA-approved Service Station

(a) Complete the following section in the engine log book:

- Section "E": Record the incorporation of mandatory Service Bulletin No. A218 73 0803.

(b) Notify TURBOMECA that mandatory Service Bulletin No. A218 73 0803, referencing the inspection for cracks on the lower union, on the start valve side of the fuel pipe between the electric valve and the start valve, has been incorporated by returning the fully completed compliance certificate (page 7/7 of this mandatory Service Bulletin).

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(2) At a TURBOMECA-approved Repair Center

(a) Complete the following section in the engine log book:

- Section "E": Record the incorporation of mandatory Service Bulletin No. A218 73 0803.

(b) Notify TURBOMECA that mandatory Service Bulletin No. A218 73 0803, referencing the inspection for cracks on the lower union, on the start valve side of the fuel pipe between the electric valve and the start valve, has been incorporated by returning the fully completed compliance certificate (page 7/7 of this mandatory Service Bulletin).

E. Routine maintenance

Not applicable.

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3. Material information

A. Basic information

Not applicable.

B. List of parts

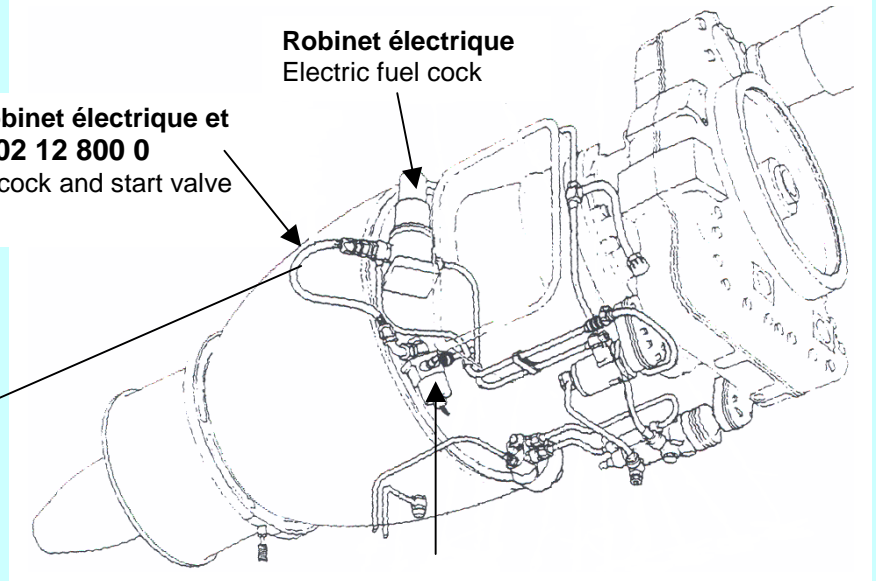
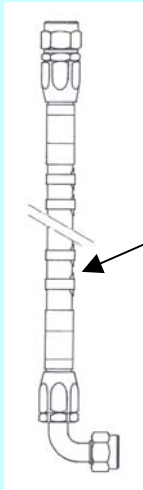
Not applicable.

C. Supply conditions

Not applicable.

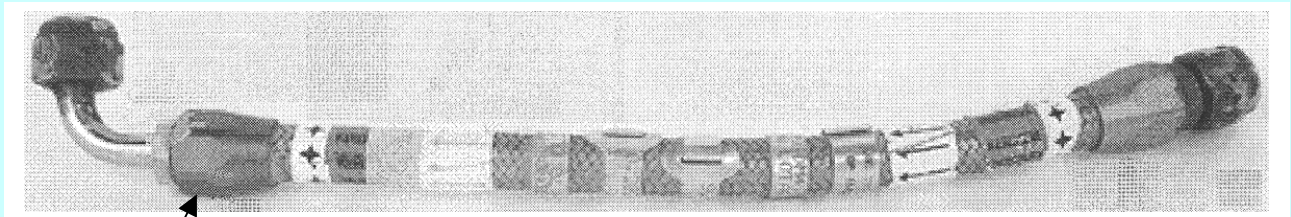
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Tuyauterie carburant entre robinet électrique et clapet de démarrage Réf. 0 202 12 800 0
Fuel pipe between electric fuel cock and start valve
P/N 0 202 12 800 0



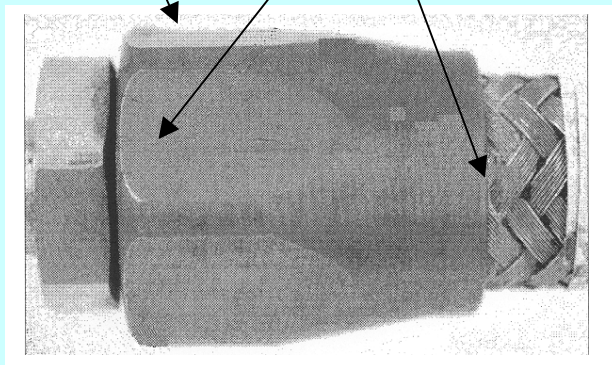
Robinet électrique
Electric fuel cock

Clapet de démarrage
Start valve



Raccord à contrôler
Union to be checked

Position des criques
Location of cracks



ANNEXE / APPENDIX

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Objet : Attestation de contrôle de recherche de crique sur le raccord inférieur de la tuyauterie de carburant Réf. 0 202 12 800 0.

Subject: Compliance certificate for check for cracks on the lower union of fuel pipe P/N 0 202 12 800 0.

Important / Important notice:

Après application de ce Service Bulletin impératif , veuillez compléter la présente attestation et la retourner par courrier ou fax à :

After incorporating the instructions in this mandatory Service Bulletin, please complete this certificate and mail or fax it to:

TURBOMECA
Direction Support Opérateurs
Département Technique - Marque ARTOUSTE
40220 TARNOS - France
Fax n° / No. +33 (0) 5 59 74 45 15

ou / or

notre établissement TURBOMECA le plus proche / the nearest TURBOMECA site

Information concernant le matériel / Equipment information						
Utilisateur Customer				N° Appareil Aircraft S/N		
	N/S - S/N	Réf. - P/N	TSN*	TSO*	CSN*	CSO*
Moteur Engine						

* **TSN = Time Since New** (Heures depuis neuf)
CSN = Cycles Since New (Cycles depuis neuf)

TSO = Time Since Overhaul (Heures depuis RG)
CSO = Cycles Since Overhaul (Cycles depuis RG)

Opération effectuée par :

Work performed by:

.....

Je certifie que le contrôle identifié ci-dessus a été effectué selon les directives du Service Bulletin impératif en objet.

I certify that the above-mentioned check has been performed according to the directives given in this mandatory Service Bulletin.

Date

Nom / Print name

Fonction / Job title

.....

Signature: