



T.F.S. No. 00000196 dated August 3, 2004
EUROCOPTER – MARGNANE – TLX 42506F

TELEX INFORMATION

AIRCRAFT: **ALOUETTE II III** Civil Version(s): **313B-3130-318B-318C-3180
316B-316C-3160-319B**

AIRCRAFT: **LAMA** Civil Version(s): **315B**

ATA: 57 - 40

SUBJECT: **MAIN ROTOR HUB**
Main Rotor Hub-To-Rotor Mast Shaft Attachment Bolt

Dear Customer,

EUROCOPTER informs you of a recent accident involving an Alouette II helicopter, during which the main rotor hub separated from the helicopter due to wear of the thread of the bolt that secures the main rotor hub to the mast shaft.

Excessive wear due to fretting corrosion on the thread and the seating face of the bolt, on the mast shaft splines as well as on the seating face of the rotor hub upper splined bushing, indicates that this wear is the result of a long process associated with insufficient tightness of the bolt. Although this accident is the first case encountered on a helicopter of the entire Alouette & Lama helicopter range, which has now logged more than 18 million flying hours, EUROCOPTER reminds you of the following various directives and checks to be carried out in this area.



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MAINTENANCE REMINDER (Figure 1)

1/ ON REPLACEMENT OF A MAIN ROTOR HUB, A ROTOR MAST OR A MAIN GEARBOX:

- Before re-installing the attachment bolt, make sure that there is no:
 - crack,
 - thread distortion,
 - corrosion pitting or traces of corrosion that cannot be removed by manual cloth sanding.
- Install the bolt previously greased with G361 or G354 grease, and torque it to between 11.75 and 13.75 m.daN (1040 to 1217 lbf.in).
- After 5 operating hours, check the tightening torque of the attachment bolt.

2/ PERIODICAL CHECKS

- Thorough check of the attachment bolt:
 - every 800 hours or 2 years (Alouette II, Alouette III and Lama).
- Thorough check of the mast shaft:
 - every 800 or 2 years (Alouette II),
 - every 2 years or 5 years (Alouette III and Lama).
- Thorough check of the rotor mast:
 - every 800 hours or 2 years (Alouette II, Alouette III and Lama).



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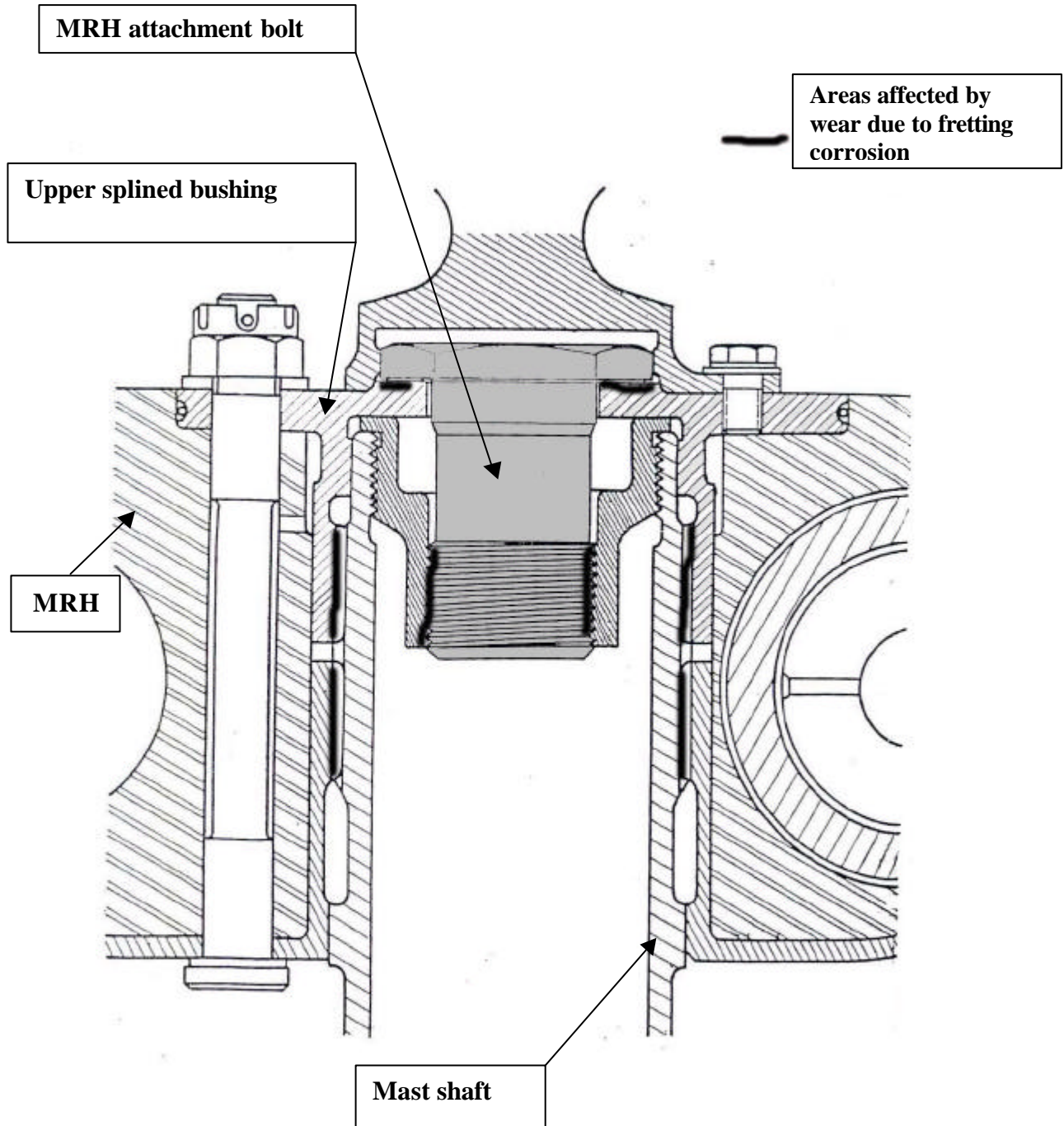


Figure 1