

AIRWORTHINESS DIRECTIVE

released by DIRECTION GENERALE DE L'AVIATION CIVILE

Inspection and/or modifications described below are mandatory. No person may operate a product to which this Airworthiness Directive applies except in accordance with the requirements of this Airworthiness Directive.

Translation of 'Consigne de Navigabilité' ref. : 96-278-054(A) R2
In case of any difficulty, reference should be made to the French original issue.

EUROCOPTER

SA 313/318 Helicopters

Horizontal Stabilizer Spar

This Airworthiness Directive applies to the horizontal stabilizers, all part numbers, installed on SE 3130, SA 3180, SE 313 B, SA 318 B and SA 318 C (ALOUETTE II and ALOUETTE ASTAZOU) helicopters.

With a view to improving the horizontal stabilizer fatigue strength, the following measures are rendered mandatory from the effective date for this Airworthiness Directive (mandatory embodiment of modifications 07.2214 and 07.2215 on all the horizontal stabilizers, all part numbers, and visual inspection of the inside of the tube).

1. STABILIZERS PART NUMBER 3130-35-60-000, 000-1 AND 000-2

- 1.1** Within three months, from December 14, 1996, a visual inspection of the inside of the tube was to be done according to the directives given in paragraph 2.B.(1) of the EUROCOPTER SA 3130-3180 Service Bulletin No. 55-10, Revision 1.

If corrosion is found inside the tube, other than in the half-shell area, replace the tube within 500 flying hours following the inspection or at the latest by December 31, 1998 (at the first limit reached).

- 1.2** The inspection described in the above paragraph 1.1 is then to be carried out at intervals of no more than six years.

- 1.3** Compliance with paragraph 2.B.(2) of the EUROCOPTER Service Bulletin No. 55-10R1, which corresponds to the embodiment of modifications 07.2215 (adding half-shells on the spar tube) and 07.2214 (installation of the spar tube without play) was to have been ensured by December 31, 1993 as required by the Airworthiness Directive No. 93-111-051(B) which has now been cancelled.

- 1.4** Specific checks to be carried out once compliance has been ensured with the above paragraph 1.3 :

- After the last flight of the day, visually check the installation of the half-shells and of the horizontal stabilizer.
- Every 400 flying hours or every four months (at the first limit reached), visually check the condition of the installation and lubricate the spar tube attachment bolts.

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- 1.5** For stabilizers P/Nos 3130-35-60-000, 000-1 and 000-2, compliance with the airworthiness aspect covered by the Airworthiness Directive No. 82-167-043(B) (effective date : December 08, 1982) which is superseded and replaced by this Airworthiness Directive, remain applicable, was to have been ensured at the latest by March 1, 1983 (installation of the spar tube without play - Refer to the referenced EUROCOPTER Service Bulletin No. 55-09).

The monitoring recommendations are repeated in the above paragraph 1.4.

- 1.6** For the horizontal stabilizers P/N 3130-35-60-000, 000-1 and 000-2 the airworthiness aspects covered by the Airworthiness Directive No. 85-141-045(B) (effective date : upon receipt after July 31, 1985) which is superseded and replaced by this Airworthiness Directive, remain applicable. These aspects are as follows :

- Confirm that there are no traces of marking on the spar tube and rework the stabilizer support fittings as described in paragraph 1C of the referenced EUROCOPTER 313/318 Service Bulletin No. 01-52, within 10 flying hours (unless this has already been carried out) then at intervals of no more than 400 flying hours.

2. STABILIZERS PART NUMBER 3130-35-60-000-3

- 2.1** Within three months, from December 14, 1996, a visual inspection of the inside of the tube was to be done according to the directives given in paragraph 2.B(1) of the EUROCOPTER Service Bulletin No. 55-10, Revision 1.

If corrosion is found inside the tube, other than in the half-shell area, replace the tube within 500 flying hours following the inspection or by December 31, 1998 at the latest (whichever occurs first).

- 2.2** The inspection described in paragraph 2.1 above is then to be carried out at intervals of no more than six years.

- 2.3** By June 14, 1997, at the latest, check and, (if necessary) modification of the supports and the stabilizer in compliance with the methods described in paragraph 2B(2) of the Service Bulletin No. 55-10 R2 (embodiment of modification 07.2215) were to be done, provided that the instructions given in paragraph 2B(3) of the Service Bulletin No. 55-10 R2 are applied once within 8 days or 10 flying hours (whichever limit is reached first) from the effective date of Revision 1 of this Airworthiness Directive (check the condition of the tube inside the area which is covered by the two halfshells : if a crack is found, discard the tube).

- 2.4** Specific checks to be carried out once compliance has been ensured with the above paragraph 2.3 of this Airworthiness Directive :

- After the last flight of the day, visually check the installation of the half-shells and of the horizontal stabilizer.
- Every 400 flying hours or every four months (whichever limit is reached first), visually check the condition of the installation and lubricate the spar tube attachment bolts.

- 2.5** For the horizontal stabilizers P/N 3130-35-60-000-3

The airworthiness aspect covered by the Airworthiness Directive No. 82-167-043(B) (effective date : December 8, 1982) which is superseded and replaced by this Airworthiness Directive, was to have been applied at the latest by March 1, 1983 (installation of the spar tube without play - refer to the referenced EUROCOPTER Service Bulletin No. 55-09).

The monitoring recommendations have been taken up in the above paragraph 2.4.

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- 2.6** For the horizontal stabilizers P/N 3130-35-60-000-3, the airworthiness aspects covered by the Airworthiness Directive No. 85-141-045(B) (effective date : upon receipt after July 31, 1985) which is superseded and replaced by this Airworthiness Directive, remain applicable. These aspects are as follows :

Confirm that there are no traces of marking on the spar tube and rework the stabilizer support fittings as described in paragraph 1C of the referenced EUROCOPTER 313/318 Service Bulletin No. 01-52, within 10 flying hours (unless this has already been carried out) then at intervals of no more than 400 flying hours .

3. STABILIZERS P/N 3130-35-60-000-4 AND HIGHER DASH NUMBERS

- 3.1** By June 14, 1997, at the latest, check and, (if necessary) modification of the supports and the stabilizer in compliance with the methods described in paragraph 2B(2) of the Service Bulletin No. 55-10 R2 (embodiment of modification 07.2215) were to be done, provided that the instructions given in paragraph 2B(3) of the Service Bulletin No. 55-10 R2 are applied once within 8 days or 10 flying hours (whichever limit is reached first) from the effective date of Revision 1 of this Airworthiness Directive (check the condition of the tube inside the area which is covered by the two halfshells. If a crack is found, discard the tube).
- 3.2** Specific checks to be carried out once compliance has been ensured with the above paragraph 3.1 :
- After the last flight of the day, visually check the installation of the half-shells and of the horizontal stabilizer.
 - Every 400 flying hours or every four months (whichever limit is reached first), visually check the condition of the installation and lubricate the spar tube attachment bolts.
- 3.3** During the next major inspection, 3200 hours or 12 years, (whichever limit is reached first), then during every major inspection, visually inspect the inside, of the tube according to the directives given in paragraph 2.B(1) of the EUROCOPTER Service Bulletin No. 55-10 R3.

4. STABILIZERS ALL PART NUMBERS

Within 30 days at the latest from the effective date of Revision 2 of this Airworthiness Directive, fit a lockwire around the 4 attachment clamps of the half-shells, in accordance with the directives given in paragraph 2.B.2 of referenced Service Bulletin No. 55-10 Revision 3.

- 5.** All stabilizers held as spares, before they are installed on an aircraft, must be modified by the embodiment of modifications 07.2215 and 07.2214 and for stabilizers P/Nos 313-35-60-000, 000-1, 000-2 and 000-3, visually inspect the inside of the tube according to the directives given in paragraph 2.B(1) of the referenced EUROCOPTER Service Bulletin No. 55-10, Revision 3.

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Ref. : EUROCOPTER SA 3130/3180 Service Bulletins :
No. 55-10 Revision 3, No. 01-52 and No. 55-09.

Note : Airworthiness Directives 82-167-043(B), 85-141-045(B) and 93-111-051(B) have been cancelled.

This Revision 2 replaces Airworthiness Directive 96-278-054(B) R1 dated May 21, 1997.

EFFECTIVE DATES :

Original AD : DECEMBER 14, 1996
Revision 1 : UPON RECEIPT FROM MAY 21, 1997
Revision 2 : AUGUST 08, 1998