

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. : 2000-339-060(A) R3
In case of any difficulty, reference should be made to the French original issue.

EUROCOPTER

AS 355 helicopters

Electrical power (ATA 24)

1. EFFECTIVITY

AS 355 helicopter versions E, F, F1, F2 and N, equipped for IFR flights, before embodiment of MOD 073019 or before compliance with EUROCOPTER AS 355 Service Bulletin No. 24.00.14, and equipped with the following electrical master boxes referenced:

- 48xGC01Yxxx,
- 49xGC01Yxxx.

Note: this AD is intended for maintenance personnel and crews.

2. REASONS

This Airworthiness Directive (AD) was issued following some cases of total electrical power failure, except direct battery, on AS 355 helicopters during long-duration flights at high OAT with the landing light switched on (failure due to disengagement of the 40 A contactors in the electrical master boxes, below their nominal threshold).

Revision 1 of this AD extended the effectivity of the measures below to electrical master boxes with all part numbers.

Revision 2 of this AD:

- covered the conversion of Service Telex No. 25.00.63 into Alert Service Bulletin (ASB) No. 25.00.63,
- limited compliance with the AD to helicopters equipped for IFR flights,
- introduced the permanent solution designed to preclude the risk of total failure of the DC power supply system.

Revision 3 of this AD:

- withdraws the serial number notion in paragraph 1 above,
- postpones the compliance date of paragraph 3.2. below.

3. MANDATORY ACTIONS AND COMPLIANCE TIME

3.1. Reminder of the measures rendered mandatory from the effective date of Revision 1 of this AD:

3.1.1. Do not use the landing light outside the landing and take-off phases.

3.1.2. In the event of total failure of the electrical power system, except direct battery, in flight, apply the procedure described in paragraph 2.B of the referenced EUROCOPTER AS 355 Alert Service Bulletin (ASB) No. 25.00.63.

3.2. Measure rendered mandatory by Revision 2 of this AD:

- Before December 1st, 2003, replace the non temperature-compensated contactors with temperature-compensated circuit breakers, in compliance with the instructions described in referenced EUROCOPTER AS 355 Alert Service Bulletin No. 24.00.14 (corresponds to MOD 073019).

Embodiment of this modification cancels the requirements imposed by paragraph 3.1. above.

REF.: EUROCOPTER AS 355 Alert Service Bulletins No. 25.00.63 and No. 24.00.14
(or any further approved revision of these ASBs).

This Revision 3 replaces AD 2000-339-060(A) R2 dated December 24, 2002.

EFFECTIVE DATES :

Original AD : Upon receipt of the telegraphic AD
issued on **JULY 31, 2000**
Revision 1 : On receipt, from **SEPTEMBER 06, 2000**
Revision 2 : **JANUARY 04, 2003**
Revision 3 : Upon receipt from **SEPTEMBER 03, 2003**