



CIVIL AVIATION AUTHORITY
CZECH REPUBLIC

Airworthiness Section

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AIRWORTHINESS DIRECTIVE

Number: CAA-AD-T-072/2000R2

Supersedes CAA-AD-T-072/2000R1

Date of issue: January 8, 2000

Eurocopter

AS 355 E, F, F1, F2, N.

HELICOPTER - ELECTRICAL POWER SYSTEM (ATA 24)

Applicability: 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 up to serial number 1352
- 49xGC01Yxxx up to serial number 1143.

Effective date: Upon receipt.

Compliance: Required as indicated in DGAC AD 2000-339-060(A) R2.

Remarks: - The compliance of this AD must be recorded in Aircraft Logbook, where applicable the requirements of this AD must be integrated into Aircraft Technical Documentation
- Address inquiries concerning this AD to: Civil Aviation Authority, Airworthiness Division, Ruzyně Airport, 160 08 Prague 6, Czech Republic, tel: 420 2 33320922, fax: 420 2 20562270.

Ing. Pavel MATOUŠEK
Director

DGAC AD No.: 2000-339-060(A) R2
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 up to serial number 1352
- 49xGC01Yxxx up to serial number 1143.

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

2. REASONS

This Airworthiness Directive (AD) is 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:

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

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 August 1, 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.

This Revision 2 replaces AD 2000-339-060(A) R1 dated September 06, 2000.

EFFECTIVE DATES:

Original AD: From receipt of the telegraphic AD issued on JULY 31, 2000

Revision 1: On receipt, from SEPTEMBER 06,2000

Revision 2: JANUARY 04, 2003