AD/ECUREUIL/58 Single-Pole Circuit Breakers 3/99

Applicability: Model AS 350 helicopters, versions B, BA, BB, B2, B3 and D equipped with the following single-pole circuit breakers manufactured by Crouzet:

Location	Rating	Part Number
Emergency Flotation Gear Optional Installation	5 Amp	84 400 032
	10 Amp	84 400 034
Other Optional Installations	1 Amp	84 400 028
	3 Amp	84 400 031
	7.5 Amp	84 400 033
	15 Amp	84 400 035
	20 Amp	84 400 036

Two types of Crouzet circuit breakers may have been delivered under Eurocopter Part Number (P/N) 704A36-6120-XXX (X indicates any digit). These circuit breakers are either P/N 84 400 XXX or SP4696-XX. This Directive is only applicable to P/N 84 400 XXX circuit breakers.

Note 1: The circuit breakers are known to be installed on helicopters delivered between 24 April 1995 and 31 August 1996. The circuit breakers may also be installed on helicopters delivered prior to 24 April 1995 or after 31 August 1996 if circuit breakers have been replaced on optional installations since 24 April 1995 or if an optional installation was fitted between 24 April 1995 and 31 August 1996.

Requirement:

1. Check the functioning of all circuit breakers, listed in the above table, that are fitted to installations listed in paragraph 1D1 of Eurocopter AS 350 Mandatory Service Bulletin (SB) 01.00.47 date code 98-47.

2. Apply the procedures detailed in paragraph 2B of the SB to all the circuit breakers for the remaining installations.

3. Test each circuit breaker held as spares that has a part number listed in this airworthiness directive, by applying a torque load and checking the circuit breaker in accordance with the directions given in paragraphs 2B(1) and 2B(2) of the SB.

4. The use of circuit breakers bearing the part numbers listed in this Airworthiness Directive is prohibited.

Note: DCAG AD 98-511-074(A) refers.

Compliance:

1. Within 200 hours time in service but no later than 26 June 1999.

2. Prior to 1 January 2000.

3. Prior to installation.

4. From 31 December 1999.

This Airworthiness Directive becomes effective on 25 March 1999.

Background: This AD is issued to check for any loss of electrical continuity for single-pole circuit breakers bearing the part numbers listed. During testing by the OEM a loss of electrical continuity was discovered between the terminals of the circuit breaker in the engaged position. This loss was found to be due to deterioration of the circuit breaker operation brought about by excessive torque loading during installation.