AIRWORTHINESS DIRECTIVE

For the reasons set out in the background section, the CASA delegate whose signature appears below revokes Airworthiness Directive (AD) AD/ECUREUIL/70 and issues the following AD under subregulation 39.1 (1) of CASR 1998. The AD requires that the action set out in the requirement section (being action that the delegate considers necessary to correct the unsafe condition) be taken in relation to the aircraft or aeronautical product mentioned in the applicability section: (a) in the circumstances mentioned in the requirement section; and (b) in accordance with the instructions set out in the requirement section; and (c) at the time mentioned in the compliance section.

Eurocopter AS 350 (Ecureuil) Series Helicopters

AD/ECUREUIL/70 Amdt 1 — Main Servocontrol Rods — 7/2003 TX

Applicability: All AS 350 helicopters, versions B, BA, B1, B2, B3, BB and D, fitted with servocontrols listed in Table 1 and Table 2 of this Directive.

Table 1 - TRW-SAMM Main Servocontrols part number (P/N) SC 5083 and SC 5084 with part numbers without the suffix "V" with the following serial numbers:

Part Number	Serial Number
SC 5083	1500 to 1515 inclusive
SC 5084	722 to 726 inclusive.

Table 2 - Main and tail servocontrols, P/N SC5081-1, SC5082-1, SC5083, SC5084, SC5071-1 and SC5072, with part numbers without suffix "V", with the following serial numbers:

Part Number	Serial Number
SC5081-1	78, 89, 227, 240, 315, 362, 427, 451, 452, 492, 497, 498, 506, 512,532, 550, 556, 561.
SC5082-1	045, 180, 194, 197, 254, 264.

Eurocopter AS 350 (Ecureuil) Series Helicopters

AD/ECUREUIL/70 Amdt 1 (continued)

Table 2 continued

Part Number	Serial Number
SC5083	01, 03, 05, 082, 17, 21, 40, 43M, 65M, 77, 87, 103M, 106M, 107, 109, 128, 129, 138, 139, 144, 148, 152, 206, 207, 218, 221, 226, 235, 239, 240, 241, 243, 254, 256, 269, 286, 287, 290, 291, 302, 312, 321,325, 327, 330, 331, 334, 338, 339, 347M, 356M, 365, 371, 372, 378M, 380M, 389, 412M, 418, 423, 428, 439, 484M, 503, 505, 525, 526, 528, 529, 573M, 587, 594M, 598, 612, 622, 1150 to 1155, 1157, 1159 to 1169, 1180 to 1199, 1207, 1208, 1210 to 1259, 1269, 1291 to 1499.
SC5084	013, 025, 31, 75, 087, 87, 101M, 102, 105, 108, 136, 160, 162, 165M, 203, 205, 205M, 209, 220, 225, 232M, 239M, 267M, 271, 288M, 292, 300, 320, 364M, 458, 612, 627, 630, 632 to 634, 636 to 652, 654, 656 to 660, 682 to 721, 727 to 731, 733 to 756.
SC5071-1	343, 389.
SC5072	003, 35, 108, 197, 216M, 253M, 339M, 347M, 432M, 700 to 724, 726 to 744, 763 to 768, 783 to 789, 820 to 883.

Note 1: Servocontrols that have been checked or reconditioned by TRW-SAMM and are identified by a letter "V" engraved to the right of the part number on the identification plate.

Requirement:

1. Unless previously accomplished check whether any of the servocontrols listed in Table 1 and Table 2 of this Directive are installed on the aeroplane.

2. Unless previously accomplished replace any servocontrols listed in Table 1 with servocontrols not listed in Table 1 or Table 2.

3. Replace any servocontrols listed in Table 2 with servocontrols not listed in Table 1 or Table 2.

4. Do not install any servocontrols listed in Table 1 or Table 2 of this Directive.

Eurocopter AS 350 (Ecureuil) Series Helicopters

AD/ECUREUIL/70 Amdt 1 (continued)

Note 2: DGAC AD 2003-099(A) refers.

Compliance:

1. Before further flight.
2. Before further flight.
3. Within 550 flight hours or 24 months, whichever occurs first, after the effective date of this Directive.
4. From the effective date of this Directive.

This Amendment becomes effective on 9 May 2003.

Background: This Directive was prompted by advice that a manufacturing defect has been detected in a batch of rods of the main servocontrol. Failure of the rod will lead to loss of control of the helicopter. This amendment is prompted by additional defects being discovered in servocontrols with additional part numbers and serial numbers.

This original issue of this Directive became effective 3 December 2001.

Jim Coyne
Delegate of the Civil Aviation Safety Authority

6 May 2003

The above AD is notified in the *Commonwealth of Australia Gazette* on 9 May 2003.