
AIRWORTHINESS DIRECTIVE

For the reasons set out in the background section, the CASA delegate whose signature appears below issues the following Airworthiness Directive (AD) under subregulation 39.001(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 355 (Twin Ecureuil) Series Helicopters**AD/AS 355/94****Load Compensator Levers****7/2007****TX**

Applicability: AS 355 N and AS 355 F2 helicopters.

Requirement: 1. Verify the part number (P/N) of the load compensator lever installed on the rotorcraft together with the P/N of the hydraulic actuator assembly as detailed in the accomplishment instructions of EUROCOPTER AS 355 Alert Service Bulletin (ASB) No. 67.00.29 revision 1, dated 27 April 2007 or later NAA approved revision.

Note 1: Instead of inspecting the rotorcraft, a review of the helicopter maintenance records along with any other applicable data (rotorcraft logbook, Components list, etc...) is acceptable if each P/N can be positively determined from that review.

2. When a P/N cannot be identified, do all actions as detailed in paragraph 2.B.2. of the accomplishment instructions of AS 355 ASB No. 67.00.29 revision 1 or later NAA approved revision to determine the relevant part numbers.
3. For helicopters Pre-MOD 072065 (i.e. with hydraulic actuator assembly 355A75-1370-01 or 355A75-1370-03) on which a compensator lever P/N 355A27-0082-00 is found.
 - a. Provided the rotorcraft has not been operated with the lever P/N 355A27-0082-00 installed, replace the lever with a lever P/N 355A27-0072-00 as instructed in paragraph 2.B.3.a. of the accomplishment instructions of ASB No. 67.00.29 revision 1 or later NAA revision.
 - b. If the rotorcraft has been operated with the lever P/N 355A27-0082-00 installed, do all actions as instructed in paragraph 2.B.3.b. of the accomplishment instructions of ASB No. 67.00.29 revision 1 or later NAA revision.
4. For helicopters Post-MOD 072065 (i.e. with hydraulic actuator assembly 355A75-1370-02 or 355A75-1370-04) on which a compensator lever P/N 355A27-0072-00 is found.

Eurocopter AS 355 (Twin Ecureuil) Series Helicopters

AD/AS 355/94 (continued)

- a. Provided the rotorcraft has not been operated with the lever P/N 355A27-0072-00 installed, replace the lever with a lever P/N 355A27-0082-00 as instructed in paragraph 2.B.3.a. of the accomplishment instructions of ASB No. 67.00.29 revision 1 or later NAA revision.
 - b. If the rotorcraft has been operated with the lever P/N 355A27-0072-00 installed, do all actions as instructed in paragraph 2.B.3.b. of the accomplishment instructions of ASB No. 67.00.29 revision 1 or later NAA revision.
5. Do not install:
- Load compensator lever P/N 355A27-0082-00 on any AS 355 N and F2 helicopters Pre-MOD 072065.(i.e. with hydraulic actuator assembly 355A75-1370-01 or 355A75-1370-03 installed); or
 - Load compensator lever P/N 355A27-0072-00 on any AS 355 N and F2 helicopters Post-MOD 072065 (i.e. with hydraulic actuator assembly 355A75-1370-02 or 355A75-1370-04 installed).

Note 2: EASA AD 2007-0131-E dated 11 May 2007 refers.

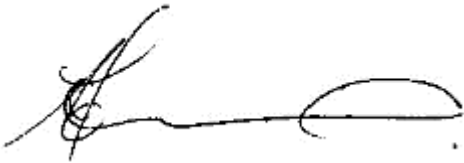
- Compliance:
1. Before further flight, after the effective date of this AD.
 2. Before further flight, after the effective date of this AD.
 3.
 - a. Before further flight, after the effective date of this AD.
 - b. Within 10 flight hours after the effective date of this AD.
 4.
 - a. Before further flight, after the effective date of this AD.
 - b. Within 10 flight hours after the effective date of this AD.
 5. From the effective date of this AD.

This Airworthiness Directive becomes effective on 18 May 2007.

Eurocopter AS 355 (Twin Ecureuil) Series Helicopters

AD/AS 355/94 (continued)

Background: This emergency AD is issued following a report of yaw control restricted travel in operation following the replacement of the load compensator. If not corrected, this condition could lead to the loss of control of the helicopter. Investigation revealed that the load compensator lever was incorrectly referenced in the Illustrated Parts Catalogue (IPC). Levers on helicopters Post-MOD 072065 (replacement of the load compensator hydraulic actuator) should be Part Number (P/N) 355A27-0082-00 and levers on helicopters Pre-MOD 072065 should be P/N 355A27-0072-00. This AD mandates inspection to identify the load compensator lever and the hydraulic actuator assembly installed on helicopters, to verify their compatibility and replacement of improper P/Ns when an incompatibility is found.



Charles Lenarcic
Delegate of the Civil Aviation Safety Authority

15 May 2007