



CIVIL AVIATION AUTHORITY
CZECH REPUBLIC
Airworthiness Division
Airport Ruzyně, 160 08 Prague 6
Tel: 420 2 33320922, fax: 420 2 20562270

AIRWORTHINESS DIRECTIVE

Number: CAA-AD-T-093/2003
Date of issue: December 01, 2003
ROBINSON HELICOPTER COMP.
R44, R44 II

HELICOPTER – MAIN AND TAIL ROTOR – SECURE BOLTS – INSPECTION/REPLACEMENT

Applicability: Model R44 and R44 II helicopters, certificated in any category.

Effective date: Upon receipt.

Compliance: Required as indicated in FAA AD 2003-24-51.

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

2003-24-51 ROBINSON HELICOPTER COMPANY: Docket No. 2003-SW-48-AD.

Applicability: Model R44 and R44 II helicopters, certificated in any category.

Compliance: Required as indicated, unless accomplished previously.

To prevent failure of the bolt that secures parts of the main rotor swashplate and attaches the tail rotor blade, and subsequent loss of control of the helicopter, accomplish the following:

(a) Before further flight, for all R44 and R44 II helicopters except those serial numbers (S/N) specified in paragraph (c) of this AD:

(1) Determine if maintenance has been performed after February 7, 2003 on the areas specified in Figure 1 of this AD, and determine if any bolt, part number (P/N) NAS6605-31, shown in Figure 1

has been replaced for any reason.

(2) If any bolt has been replaced, or if it is uncertain whether any bolt has been replaced after February 7, 2003, remove the paint from the bolt head to reveal the vendor identification marking.

Determine if the bolt vendor identification is 01DO.

(b) If the bolt vendor identification is 01DO in step (a)(2) of this AD, comply with paragraphs (d) and (e) of this AD.

(c) The following R44 and R44 II helicopters must comply with paragraphs (d) and (e) of this AD:

(1) Model R44 helicopters, S/N 0210, 0565, 0641, 0987, and 1312 through 1349, except 1345 and 1346, and

(2) Model R44 II helicopters, S/N 10010, 10062, and 10083 through 10212, except 10092, 10173, 10204, 10207, 10210, and 10211.

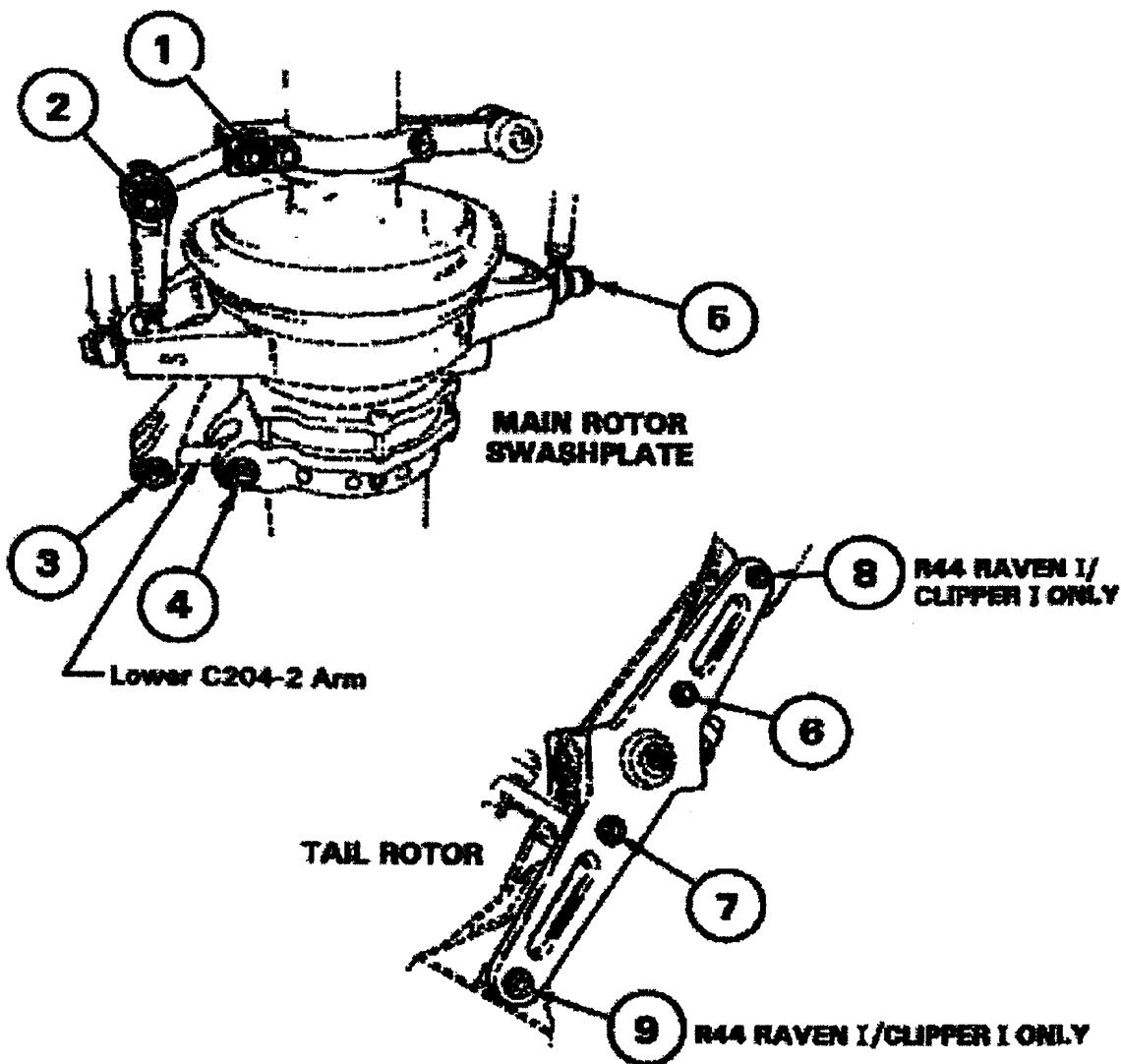
(d) For the helicopters specified in paragraphs (b) and (c) of this AD, before further flight, and before first flight each day of operation, do the following:

(1) Visually inspect each bolt for fretting residue under the bolt head, which indicates a loose, potentially cracked bolt.

(2) Apply 10-15 ft-lb (13-20 Nm) torque to each bolt head and verify no rotation. See Figure 1 of this AD.

(3) If residue or rotation of the bolt is found, before further flight, replace each unairworthy bolt with an airworthy bolt that does not have a vendor identification marking of 01DO.

Note 1: Robinson Helicopter Company Service Bulletin SB-51, dated November 24, 2003, pertains to the subject of this AD.



Suspect NAS6605-31 Bolts

9 Place on R44

7 Places on R44 II

Figure 1

- (e) For the helicopters specified in paragraphs (b) and (c) of this AD, within 10 hours time-in-service or by December 31, 2003, whichever occurs first, replace each bolt, P/N NAS6605-31, that has vendor identification marking 01DO on the bolt head, with an airworthy bolt, P/N NAS6605-31, that has an alternate vendor identification marking.
- (f) Bolt, P/N NAS6605-31, with vendor identification marking 01DO on the bolt head, is NOT ELIGIBLE for installation on any helicopter.
- (g) To request a different method of compliance or a different compliance time for this AD,

follow the procedures in 14 CFR 39.19. Contact the Los Angeles Aircraft Certification Office, FAA, for information about previously approved alternative methods of compliance.

(h) Emergency AD 2003-24-51, issued November 28, 2003, becomes effective upon receipt.

FOR FURTHER INFORMATION CONTACT: Fred Guerin, Aviation Safety Engineer, FAA, Los

Angeles Aircraft Certification Office, Airframe Branch, 3960 Paramount Blvd., Lakewood, California 90712, telephone (562) 627-5232, fax (562) 627-5210.

Issued in Fort Worth, Texas, on November 28, 2003.

Larry M. Kelly,

Acting Manager, Rotorcraft Directorate,

Aircraft Certification Service.