

URGENT

TB 1-1520-238-20-112

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

MAIN ROTOR PITCH HOUSING RETIREMENT LIFE, ON ALL AH-64 AIRCRAFT

Headquarters, Department of the Army, Washington, D.C.

17 November 2000

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

NOTE

THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.

1. Priority Classification. Urgent .

a. Aircraft in Use. Upon receipt of this technical bulletin (TB), make the following entry on the DA Form 2408-13-1. For AH-64D aircraft enter a red horizontal dash //--// status symbol with the following statement: "Inspect DA Form 2408-16 IAW AH-64-01-ASAM-02 (TB 1-1520-238-20-112) prior to next flight but NLT 25 Oct 2000." For AH-64D aircraft enter a red horizontal dash //--// status symbol with the following statement: "Inspect DA Form 2408-16 IAW AH-64-01-ASAM-02 (TB 1-1520-238-20-112) within the next 10 flight hours, but NLT 25 Oct 2000 for AH-64A aircraft." Clear the red horizontal dash //--// entry when the procedures IAW Para 8 and 9 are completed. The affected aircraft shall be inspected as soon as practical but no later than 25 Oct 2000. Commanders who are unable to comply with the requirements of this TB within the time frame specified will upgrade the affected aircraft status symbol to a red //X//.

b. Aircraft in Depot Maintenance. Depot commanders will not issue aircraft until they are in compliance with this message.

c. Aircraft Undergoing Maintenance. Commanders and facility managers will not issue aircraft until they are in compliance with this message.

d. Aircraft in Transit.

(1) Surface/Air Shipment. Same as para 1a.

(2) Ferry Status.

(a) Same as para 1a.

(b) Boeing will inspect DD 250 aircraft prior to those aircraft departing for ferry to final destination.

This TB supersedes USAAMCOM Message 111803Z Oct 00 (AH-64-01-ASAM-02).

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e. Maintenance Trainers (Category A and B). Same as para 1a.

f. Component/Parts in Stock at All Levels (Depot and Others) Including War Reserves. Upon receipt of this TB, depot and materiel activity commanders will ensure the materiel condition tags of all items in all condition codes listed in paragraphs 6 and 7 are annotated to read: "AH-64-01-ASAM-02 (TB 1-1520-238-20-112) Main Rotor Pitch Housing Retirement Life, not complied with."

(1) Wholesale Stock. Upon receipt of this TB, depot and materiel activity commanders will ensure all serviceable items (Condition Codes //A//, //B//, //C//, //D//, and //E//) listed in paragraphs 6 and 7 are placed in condition code //J// and tagged with a suspended tag/label – materiel, DD Form 1575/DD Form 1575-1. Do not remove original condition tags. Report compliance with this TB IAW paragraph 14d(1).

(2) Retail Stock. Upon receipt of this message, commanders and facility managers maintaining retail stock at installation level and below shall contact the supported aviation unit to perform the procedures required IAW paragraphs 8 and 9 on suspect materiel. Dispose of discrepant materiel IAW paragraph 10. Report compliance with this TB IAW paragraph 14d(2).

g. Components/Parts in Work (Depot Level and Others). Depot and other maintenance activity commanders will ensure items listed in paragraphs 6 and 7 are not issued until they are in compliance with this TB.

2. Task/Inspection Suspense Date. Complete the inspection IAW paragraph 8 for –

- a. AH-64D aircraft – prior to next flight but NLT 25 Oct 2000 and report IAW para 14b.
- b. AH-64A Aircraft – within the next 10 flight hours but NLT 25 Oct 2000 and report IAW para 14b.

3. Reporting Compliance Suspense Date. Report compliance IAW para 14a NLT 31 Oct 2000.

4. Summary of the Problem.

a. AH-64 Main Rotor Pitch Housings have been assigned a retirement life of 1193 hours. The AH-64A ISAQ Revision 7 dated 8 Feb 2000 allows AH-64A models only to extend that time to 1553 hours through 23 Feb 2001. Some pitch housings have been issued incorrectly indicating a retirement life of 1553 hours. Some of these high time pitch housings may have been issued to units with AH-64D Longbow aircraft. There also appears to be a misinterpretation of the AH-64A ISAQ Revision 7 grace period.

b. For manpower/downtime and funding impacts, see paragraph 12.

c. The purpose of this TB is to:

(1) Verify that all pitch housings having more than 1193 hours are removed from AH-64D aircraft prior to next flight.

(2) Identify all AH-64 A and D pitch housings by aircraft, component serial number and current flight hours.

(3) Collect and report accurate data relating to pitch housing lives installed on all fielded aircraft.

5. End Items To Be Inspected. All AH-64 aircraft.

6. Assembly Components To Be Inspected.

Nomenclature	Part Number	NSN
Head, Rotary Wing	7-311411003-ALL	1615-01-148-1525
	7-311411003-601	N/A
	7-311411003-605	1615-01-209-9169
	7-311411003-607	1615-01-245-3148
	7-311411003-609	1615-01-249-3989
	7-311411003-611	1615-01-306-6948

7-311411003-613	N/A
7-311411003-615	1615-01-334-4933
7-311411003-617	N/A
7-311411003-619	1615-01-306-6948

7. Parts To Be Inspected.

Nomenclature	Part Number	NSN
Pitch Housing	7-311411215	1615-01-147-4773
	7-311411215-7	1615-01-203-7969
	7-311411215-11	N/A
	7-311411215-13	1615-01-235-5845
	7-311411215-15	1615-01-235-5845

8. Inspection Procedures.

a. Review aircraft DA Form 2408-16 and calculate current time since new (TSN) on all AH-64 Main Rotor Pitch Housings. If the current time since new is less than 1553 hours TSN (AH-64A) or 1193 (AH-64D) hours TSN the red horizontal dash //--// may be cleared. If the current time since new is greater than 1553 hours TSN (AH-64A) or 1193 (AH-64D) hours TSN refer to para 9 for correction procedures.

b. Provide a report including aircraft tail number, current aircraft hours, pitch housing S/N, and current flight hours on each pitch housing to the logistic point of contact listed in para 16b.

9. Correction Procedures.

a. The Retirement Life of the Pitch Housing for both AH-64A and AH-64D models is 1193 flight hours. Revision 7 of the AH-64A ISAQ did not increase the retirement life, however it provided a grace period for fielded AH-64A aircraft through 23 Feb 2001, at which time the 1193 hour retirement life shall be complied with. The grace period does not allow pitch housings installed on AH-64A aircraft to exceed 1553 flight hours. The AH-64D ISAQ does not allow any such grace period nor does it allow pitch housings installed on AH-64D aircraft to exceed 1193 hours.

b. Immediately remove and demilitarize IAW para 10, any pitch housing having more than 1193 hours that are installed on AH-64D Longbow aircraft.

c. Immediately remove and demilitarize IAW para 10, any pitch housing on AH-64A Apache aircraft having more than 1553 flight hours.

10. Supply/Parts and Disposition.

a. Parts Required – Items cited in paragraph 7 may be required to replace defective items.

b. Requisitioning Instructions – Requisition replacement parts using normal supply procedures. All requisitions shall use project code (cc 57-59) "X0B" (Xray-Zero-Bravo).

NOTE

Project code "X0B" is required to track and establish a database of stock fund expenditures incurred by the field as a result of SOF actions.

c. Bulk and Consumable Materials – N/A

d. Disposition – Demilitarize/Mutilate IAW TM 1-1500- 328-23 any part/component which does not meet inspection criteria.

e. Disposition of Hazardous Material – IAW Environmental Protection Agency directives as implemented by your servicing environmental coordinator (AR200-1).

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11. Special Tools and Fixtures Required. N/A.

12. Application.

a. Category of Maintenance. AVUM. Aircraft downtime will be charged to AVUM.

b. Estimated Time Required.

(1) Inspection –

(a) Total of 1 manhour using 1 person.

(b) Total of 0 hours downtime for one end item.

(2) Correction –

(a) Total of 18 manhours using 2 persons.

(b) Total of 9 hours downtime for one end item.

c. Estimated Cost Impact to the Field.

Nomenclature	Part No/NSN	QTY	Cost Each
Pitch Housing	7-311411215-ALL/ 1615-01-147-4773	4 ea	\$3,957.00

Total cost per aircraft (if all are replaced) = \$15,828.00

d. TB/MWOs To Be Applied Prior To Or Concurrently With This Inspection. N/A.

e. Publications Which Require Change As a Result of This Inspection. N/A.

13. References. DA PAM 738-751 Mar 1999.

14. Recording and Reporting Requirements.

a. Reporting Compliance Suspense Date (Aircraft) – Upon entering requirements of this TB on DA Form 2408-13-1 on all subject MDS aircraft, commanders will forward a priority message, datafax or email to: CDR, AMCOM, ATTN: AMSAM-SF-A (SOF Compliance Officer), Redstone Arsenal, AL 35898-5000, IAW AR 95-1. Datafax number is DSN 897-2111 or (256) 313-2111. E-mail address is "SAFEADM@redstone.army.mil." The report will cite this message and TB number, date of entry in DA Form 2408-13-1, the aircraft mission design series and serial numbers of aircraft in numerical order.

b. Task/Inspection Reporting Suspense Date (Aircraft) – Upon completion of inspection, commanders will forward a priority message to the logistics POC listed at para 16b. The report will cite this message and TB number, date of inspection, aircraft serial number, pitch housing serial number, aircraft and component hours, and results of the inspection. Inspection and reports will be completed NLT 31 Oct 2000.

c. Reporting Message Receipt (Spares) – N/A.

d. Task/Inspection Reporting Suspense Date (Spares).

(1) Materiel in wholesale depot storage – Depot and materiel activity commanders will report compliance with this message to the wholesale materiel point of contact (spares) listed in paragraph 16c NLT 17 Oct 2000 on DD Form 1225. Provide the cost of compliance with this message to include an estimate of the cost reimbursable funding required to move serviceable items on hand listed in paragraphs 6 and 7 to a work area, unpack the materiel, repack the materiel after inspection, and to return the materiel to storage, as appropriate. Report, by original serviceable condition code, the quantity of materiel placed in condition code //J//. Report by e-mail or datafax and provide local point of contact.

(2) Materiel in Retail Storage – Commanders and facility managers will report compliance with this TB to the logistical point of contact in paragraph 16b NLT 25 Oct 2000. Report the quantity inspected by condition code and the resulting condition code. Report by e-mail or datafax and provide local point of contact.

e. The following forms are applicable and are to be completed IAW DA PAM 738-751, 15 Mar 1999

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NOTE

ULLS-A users will use applicable "E" forms.

- (1) DA Form 2408-5-1, Equipment Modification Record (Main Rotor Head and Pitch Housing).
- (2) DA Form 2408-13, Aircraft Status Information Record.
- (3) DA Form 2408-13-1, Aircraft Inspection and Maintenance Record.
- (4) DA Form 2408-15, Historical Record for Aircraft.
- (5) DA Form 2408-16, Aircraft Component Historical Record.
- (6) DA Form 2410, Component Removal and Repair/Overhaul Record (only if main rotor head or pitch housing are removed/replaced.)
- (7) DD Form 1574/DD Form 1574-1, Serviceable Tag/Label - Materiel (Color Yellow). Annotate remarks block with "Inspected Serviceable IAW AH-64-01-ASAM-02 (TB 1-1520-238-20-112)."
- (8) DD Form 1575/DD Form 1575-1, Suspended Tag/Label - Materiel (Color Brown). Annotate remarks block with "Suspended IAW AH-64-01-ASAM-02 (TB 1-1520-238-20-112)."
- (9) DD Form 1577/DD Form 1577-1, Unserviceable (Condemned) Tag/Label - Materiel (Color Red). Annotate remarks block with "Condemned IAW AH-64-01-ASAM-02 (TB 1-1520-238-20-112)."

15. Weight and Balance. N/A.

16. Points of Contact.

a. Technical point of contact for this TB is Mr. Ken Muzzo, AMSAM-AR-E-I-P-A, DSN 897-4812 or commercial (256) 313-4812. Datafax is DSN 897-4923 or commercial (256) 313-4923. E-mail is "Kenneth.Muzzo@redstone.army.mil".

b. Logistical points of contact are -

(1) Primary - Mr. Jim Mason, SFAE-AV-AAH-LF, DSN 897-4242 or commercial (256) 313-4242. Datafax is DSN 897-4343 or commercial (256) 313-4343. E-mail is "Jim.Mason@peoavn.redstone.army.mil".

(2) Alternate - Mr. Mike Sharp, SFAE-AV-AAH-LF, DSN 897-4236 or commercial (256) 313-4236. Datafax is DSN 897-4343 or commercial (256) 313-4343. E-mail is "Mike.Sharp@peoavn.redstone.army.mil".

c. Wholesale materiel point of contact (spares) is Mr. Jeff Purk, AMSAM-MMC-VS-AB, DSN 897-1353 or commercial (256) 313-1353. Datafax is DSN 897-1556 or commercial (256) 313-1556. Email is "Jeffrey.Purk@redstone.army.mil".

d. Forms and records point of contact is Ms. Ann Waldeck, AMSAM-MMC-RE-FF, DSN 746-5564 or commercial (256) 876-5564. Datafax is DSN 746-4904 or commercial (256) 876-4904. E-mail is "Ann.Waldeck@redstone.army.mil".

e. Safety points of contact are -

(1) Primary - Mr. Frank Rosebery (SAIC), AMSAM-SF-A, DSN 788-8631 or commercial (256) 842-8631. Datafax is DSN 897-2111 or commercial (256) 313-2111. E-mail is "Frank.Rosebery@redstone.army.mil".

(2) Alternate - Howard Chilton, AMSAM-SF-A, DSN 897-2068 or commercial (256) 313-2068. Datafax is DSN 897-2111 or commercial (256) 313-2111. E-mail is "Howard.Chilton@redstone.army.mil".

f. Foreign Military Sales (FMS) recipients requiring clarification of action advised by this TB should contact one of the following (Huntsville, AL, time is GMT minus 5 hours):

(1) CW5 Joseph L. Wittstrom, Security Assistance Management, AMSAM-SA, DSN 897-0410 or commercial (256) 313-0410. E-mail is "Joseph.Wittstrom@redstone.army.mil".

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(2) Mr. Ronnie W. Sammons, AMSAM-SA-CS-NF, DSN 897-0408 or commercial (256) 313-0408. Datafax is DSN 897-0411 or commercial (256) 313-0411. E-mail is "Ronnie.Sammons@redstone.army.mil".

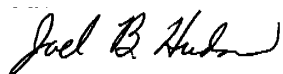
g. After hours, contact the AMCOM Command Operations Center (COC) DSN 897-2066/7 or commercial (256) 313-2066/7.

17. Reporting of Errors and Recommending Improvements. You can improve this TB. If you find any mistakes or if you know of a way to improve these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to the following address: Commander, US Army Aviation and Missile Command, ATTN: AMSAM-MMC-LS-SP, Redstone Arsenal, AL 35898-5230. You may also submit your recommended changes by e-mail directly to "ls-sp@redstone.army.mil". A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual.

By Order of the Secretary of the Army:

Official:

ERIC K. SHINSEKI
General, United States Army
Chief of Staff



JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
0032003

DISTRIBUTION:

To be distributed in accordance with Initial Distribution Number (IDN) 313946, requirements for TB 1-1520-238-20-112.

The following format must be used if submitting an electronic 2028. The subject line must be exactly the same and all fields must be included; however only the following fields are mandatory: 1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 17, and 27.

From: "Whomever" <whomever@avma27.army.mil>

To: <mpmt%avma28@st-louis-emh7.army.mil>

Subject: DA Form 2028

1. **From:** Joe Smith
2. **Unit:** home
3. **Address:** 4300 Park
4. **City:** Hometown
5. **St:** MO
6. **Zip:** 77777
7. **Date Sent:** 19-OCT-93
8. **Pub no:** 55-2840-229-23
9. **Pub Title:** TM
10. **Publication Date:** 04-JUL-85
11. **Change Number:** 7
12. **Submitter Rank:** MSG
13. **Submitter FName:** Joe
14. **Submitter MName:** T
15. **Submitter LName:** Smith
16. **Submitter Phone:** 123-123-1234
17. **Problem:** 1
18. **Page:** 2
19. **Paragraph:** 3
20. **Line:** 4
21. **NSN:** 5
22. **Reference:** 6
23. **Figure:** 7
24. **Table:** 8
25. **Item:** 9
26. **Total:** 123
27. **Text:**

This is the text for the problem (below line 27).

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.

SOMETHING WRONG WITH PUBLICATION

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

PUBLICATION DATE

PUBLICATION TITLE

BE EXACT PIN-POINT WHERE IT IS

PAGE NO.

PARA-GRAPH

FIGURE NO.

TABLE NO.

IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.

TEAR ALONG PERFORATED LINE

PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

THE METRIC SYSTEM AND EQUIVALENTS

WEIGHT MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
 1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
 1 Kilogram = 1000 Grams = 2.2 lb.
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches
 1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet
 1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches
 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

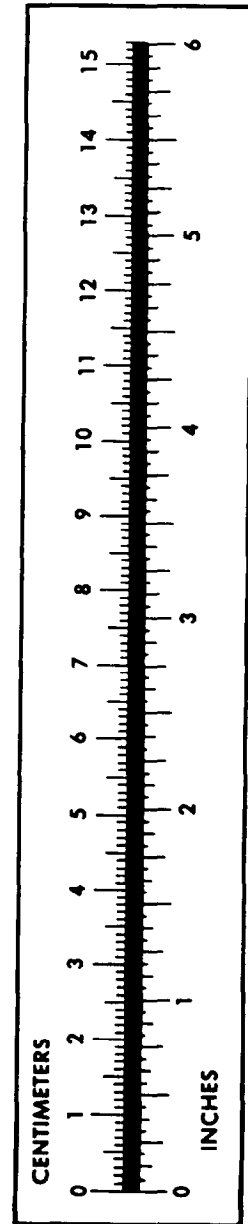
TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 212° Fahrenheit is equivalent to 100° Celsius
 90° Fahrenheit is equivalent to 32.2° Celsius
 32° Fahrenheit is equivalent to 0° Celsius
 $9/5^{\circ}\text{C} + 32 = ^{\circ}\text{F}$

APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
its	Liters	0.473
arts	Liters	0.946
allons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
ers	Gallons	0.264
ms	Ounces	0.035
ograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
ometers per Liter	Miles per Gallon	2.354
ometers per Hour	Miles per Hour	0.621



PIN: 078680-000