

# URGENT

\*TB 1-1520-210-20-47

## DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

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### ALL UH-1 SERIES AIRCRAFT, SUPPLEMENT TO TB 1-1520-210-30-01, DATED 22 MARCH 2000, MANDATORY INSPECTION OF TAIL BOOM VERTICLE FIN SPAR ASSEMBLY

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

30 March 2000

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

1. **Priority Classification.** URGENT

**NOTE**

IAW AR 95-1, paragraph 6-6a, MACOM commanders may authorize temporary exception from SOF message requirements. Exception may only occur when combat operations or matter of life or death in civil disasters or other emergencies are so urgent that they override the consequences of continued aircraft operation.

a. **Aircraft in Use.** Upon receipt of subject message/Technical Bulletin (TB), the condition status symbol of the cited aircraft will be changed to a **Red Horizontal Dash //--//** The **Red Horizontal Dash //--//** entry shall state "Inspect Aircraft X-ray Inspection Records for Submittal of X-ray Films to AMCOM Prior to Next Flight, but NLT 3 April 2000 IAW UH-1-00-07 (TB 1-1520-210-20-47)." The **Red Horizontal Dash //--//** may be cleared when both the inspection IAW paragraph 8 and correction IAW paragraph 9 are completed. The affected aircraft X-ray films shall be inspected prior to next flight, but NLT 3 April 2000. Failure to comply with the requirements of subject message/TB within the time frame specified will cause the status symbol of the affected aircraft to be upgraded to a **Red X**.

b. **Aircraft in Depot Maintenance.** Same as paragraph 1.a.

c. **Aircraft Undergoing Maintenance.** Same as paragraph 1.a.

d. **Aircraft in Transit.** Same as paragraph 1.a.

e. **Maintenance Trainers (Category A and B).** N/A.

\*This TB supersedes USAMMCOM Safety of Flight (SOF) Message UH-1-00-07, 171200Z, Mar 00.

**f. Component/Parts in Stock at All Levels (Depot and Others) Including War Reserves.** Upon receipt of subject message/TB the material condition tags of all items in all condition codes listed in paragraph 6 shall be annotated to read "SOF UH-1-00-07, (TB 1-1520-210-20-47), Supplement to UH-1-00-05 (TB 1-1520-210-30-01, dated 22 March 2000), Mandatory Inspection of Tail Boom Vertical Fin Spar Assembly, Not Complied With".

(1) **Wholesale Stock.** Upon receipt of subject message/TB all serviceable items (condition codes A, B, C, D, and E) listed in paragraph 6 located in wholesale depot storage shall be placed in condition code "J" and tagged with a suspended tag/label - Material, DD Form 1576/DD Form 1576-1. Do not remove original condition tags.

(2) **Retail Stock.** Upon receipt of subject message/TB commanders and others maintaining retail stock at installation level and below shall contact the supported aviation unit to perform the inspection required by paragraph 8 and the correction procedures of paragraph 9 on discrepant material. Disposition of discrepant material will be IAW paragraph 10.d.

**g. Components/Parts in Work. (Depot Level and Others).** Items listed in paragraph 6 in work will not be issued until compliance with subject message/TB.

**2. Task/Inspection Suspense Date.** Complete the inspection IAW paragraph 8 prior to next flight, but NLT 3 April 2000, and report IAW paragraph 14.b. as applicable.

**3. Reporting Compliance Suspense Date.** No later than 7 April 2000 IAW paragraph 14.a. of this message/TB.

**4. Summary of the Problem.**

**a. Background.** SOF UH-1-00-05 (TB 1-1520-210-30-01, dated 22 March 2000) required units not utilizing an ARNG AVCRAD X-ray inspection team to submit sample X-rays of UH-1 vertical fin spars for review by AMCOM. The results of those reviews show that the X-ray procedures are not being performed correctly by a significant portion of those X-ray inspection entities. Approximately 70 percent of those films reviewed have been found "Not Acceptable" for use in determining the serviceability of the spar.

**b. For Manpower/Downtime and Funding Impacts.** See paragraph 12.

**c. The purpose of this TB is to:**

(1) Provide instructions to units that have previously submitted X-rays for review.

(2) Require submittal of the most recent set of X-rays for all effected aircraft "Not " previously reviewed by AMCOM.

(3) Change the status symbol of those aircraft that have "Not" had their X-rays reviewed to **Red X**.

(4) Require follow-on re-inspection X-rays to be submitted for review.

**5. End Items to be inspected.** All UH-1 series aircraft.

**6. Assembly Components to be Inspected.**

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Tail Boom Assembly	205-032-800-71	1560-00-483-1273
Tail Boom Assembly	205-032-800-101	1560-01-160-6623
Tail Boom Fin Assembly	205-030-899-109	1560-00-482-9100

## 7. Parts to be Inspected.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Tail Boom Fin Spar	205-030-846-49	1560-00-428-7321
Tail Boom Fin Spar	205-030-846-7	1560-00-431-8495

## 8. Inspection Procedures.

### NOTE

Contact the logistical POC listed at paragraph 16.b. for information on AMCOM approved inspection teams.

- a. Determine if the most recent X-ray inspections for each aircraft were performed by –
  - (1) An ARNG AVCRAD X-ray team.
  - (2) Other AMCOM approved sources.
  - (3) An other source (private or government).
- b. If the most recent X-rays were performed by an ARNG AVCRAD X-ray team or an AMCOM approved source, the requirements of subject message/TB have been met and no further action is necessary.
- c. If the most recent, or any future X-rays, are performed by any other source (private or government).
  - (1) For each aircraft that has had X-rays submitted for review IAW SOF UH-1-00-05 (TB 1-1520-210-30-01, dated 22 March 2000), refer to paragraph 9.a. and 9.c.
  - (2) For each aircraft that has **“Not”** had X-rays submitted for review IAW SOF UH-1-00-05 (TB 1-1520-210-30-01, dated 22 March 2000), refer to paragraph 9.b. and 9.c.

## 9. Correction Procedures.

### NOTE

Contact the logistical POC listed at paragraph 16.b., for information on AMCOM approved NDT level III inspectors, and where to send the X-rays.

- a. For each aircraft that has had X-rays previously submitted for review IAW SOF UH-1-00-05 (TB 1-1520-210-30-01, dated 22 March 2000).
  - (1) The unit will be notified by separate official correspondence from AMCOM as to the acceptability of the X-rays and any further actions required.
  - (2) Immediately upon receipt of subject message/TB (UH-1-00-07)/(TB 1-1520-210-20-47), any unit that has not been notified IAW paragraph 9.a.(1) that all 3 X-ray films are acceptable will change the aircraft status symbol to **Red X**. The **Red X** entry shall state, “Aircraft Grounded Pending AMCOM Review of Vertical Stabilizer X-rays.” The aircraft shall remain on **Red X** status pending notification by AMCOM regarding the results of the review and further instructions.
- b. For each aircraft that has “Not” had X-rays previously submitted for review IAW SOF UH-1-00-05 (TB 1-1520-210-30-01, dated 22 March 2000).
  - (1) The effected aircraft shall be placed in a **Red X** status pending notification by AMCOM regarding the results of the review and further instructions. The **Red X** may be cleared only if units have been notified by AMCOM that all 3 X-ray films for a particular aircraft/tailboom are acceptable.
  - (2) The unit will submit the most recent set of X-rays (exposures #1, #2, and #3) for each aircraft to AMCOM for review.

(3) Units will include with the submitted film a point of contact with E-mail, phone/fax number, and return address in order to receive a timely report of the results, and the name of the organization/company performing radiographic inspections.

c. X-ray film from subsequent re-inspections (every 75 hours), unless performed by an approved AMCOM source, shall be submitted to AMCOM for review NLT 10 days after re-inspections are completed. The status symbol of the aircraft shall not change during the subsequent review process. Units will receive separate notification of the results of the review with further instructions as required.

d. Subject message/TB is not applicable to foreign military sales customers.

**10. Supply/Parts and Disposition.**

a. **Parts Required.** N/A.

b. **Requisitioning Instructions.** N/A.

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. **Distribution of Hazardous Material.** N/A.

**11. Special Tools, Jigs and Fixtures Required.** N/A.

**12. Application.**

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

b. **Estimated Time Required.**

(1) Total of .5 man-hours using 1 person for records inspection.

(2) Total of .5 hours downtime for one end item.

c. **Estimated Cost Impact of Stock Fund Items to the Field.** N/A.

d. **TB/MWOs to be Applied Prior to or Concurrently with this Inspection.** TB 1-1520-210-30-01, dated 22 March 2000.

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

**13. References.**

a. UH-1-00-05

b. TB 1-1520-210-30-01, dated 22 March 2000.

**NOTE**

TB 1-1520-210-30-01, dated 22 March 2000 is available for viewing on the Utility Helicopters web page. The URL address is: "www.uhpo.redstone.army.mil". Go to Safety, then UH-1 Iroquois Information. Access to the web site is controlled. Procedures to obtain logon ID are accessible by clicking the register button.

c. TM 1-1500-328-23.

**14. Recording and Reporting Requirements.**

**a. Reporting Compliance Suspense Date (Aircraft).** Upon entering requirements of subject message/TB on DA Form 2408-13-1 on all subject MDS aircraft, forward a priority message, datafax or E-mail 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 commercial (256) 313-2111. E-Mail address is <safe-adm@redstone.army.mil>. The report will cite subject message/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).** Units that have had their X-ray inspections performed by an outside entity (other than an AMCOM approved source) shall submit the most recent set of X-ray film for each aircraft NLT 3 April 2000 IAW the instructions in paragraph 9.b.

**c. Reporting Message Receipt Date (Spares).** N/A.

**d. Task/Inspection Reporting Suspense Date (Spares).** N/A.

**e. The following forms are applicable and are to be completed in accordance with DA PAM 738-751, 15 March 1999:**

**NOTE**

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

(1) DA Form 2408-13, Aircraft Status Information Record.

(2) DA Form 2408-13-1, Aircraft Inspection and Maintenance Record.

(3) DA Form 2408-15, Historical Record for Aircraft.

(4) DD Form 1576/DD Form 1576-1, Test/modification Tag/Label - Material (color blue). Annotate authority block with "UH-1-00-07, (TB 1-1520-210-20-47)."

**15. Weight and Balance.** N/A.**16. Points of Contact.**

**a.** Technical point of contact for subject message/TB is Mr. Ralph Vemmer, AMSAM-RD-AE-I-D-U, DSN 645-0663 or commercial (256) 955-0663. Datafax is DSN 897-3818 or (256) 313-3818, E-mail is <ralph.vemmer@redstone.army.mil>.

**b.** Logistical point of contact for subject message/TB is Mr. Mike Haragan, AMSAM-DSA-UH-U, DSN 645-0211 or commercial (256) 955-0211. Datafax is DSN 897-3770 or (256) 313-3770. E-mail is <mike.haragan@uh.redstone.army.mil>.

**c.** NDI Inspection point of contact for subject message/TB is Ms. Sandra Ratley, AMSAM-DSA-AS-AG, DSN 788-8043 or commercial (256) 842-8043, Datafax is DSN 788-0572 or (256) 842-0572. E-mail is <sandra.ratley@redstone.army.mil>.

**d.** Wholesale Materiel point of contact (Spares) is Mr. Kenneth Gardner, AMSAM-MMC-VS-UN, DSN 897-1541 or commercial (256) 313-1541, Datafax is DSN 897-1541 or (256) 313-1541. E-mail is <gardner-kd@exchange1.redstone.army.mil>.

**e.** Forms and records point of contact for subject message/TB is Ms. Ann Waldeck, AMSAM-MMC-RE-FF, DSN 746-5564 or commercial (256) 876-5564. Datafax is DSN 746-4904 or (256) 876-4904. E-mail is <waldeck-ab@redstone.army.mil>.

**f.** Safety point of contact for subject message/TB is Mr. Signey Hernandez, AMSAM-SF-A, DSN 897-2094 or commercial (256) 313-2094, Datafax is DSN 897-2111 or (256) 313-2111. E-mail is <signey.hernandez@redstone.army.mil>.

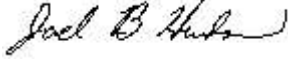
**g.** Foreign Military Sales (FMS) recipients requiring clarification of action advised by subject message/ TB should contact either CW5 Joseph L. Wittstrom, Security Assistance Management, AMSAM-SA, DSN 897-0410 or commercial (256) 313-0410; E-mail is <wittstrom-jl@redstone.army.mil> or Mr. Ronnie W. Sammons, AMSAM-SA-CS-NF, DSN 897-0408 or (256) 313-0408; datafax is DSN 897-0411 or (256) 313-0411, E-mail is <sammons-rw@redstone.army.mil> (Huntsville, AL. is GMT minus 6 hrs).

**h.** After hours contact AMCOM Command Operations Center (COC) DSN 897-2066/2067 or commercial (256) 313-2066/2067.

**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: Commander, US Army Aviation and Missile Command, ATTN: AMSAM-MMC-LS-LP, Redstone Arsenal, Alabama 35898-5230. A reply will be furnished to you. You may also send in your comments electronically to our E-mail address: <is-lp@redstone.army.mil> or by datafax: DSN 788-6546 or commercial (256) 842-6546. Instructions for sending a 2028 by E-mail may be found at the back of some TM's.

**By Order of the Secretary of the Army:**

Official:



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

0008313

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

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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

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

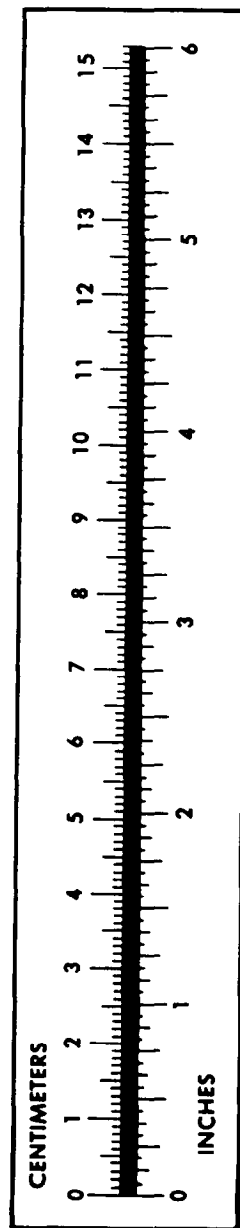
## TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$   
 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: 077918-000**