

URGENT**DEPARTMENT OF THE ARMY TECHNICAL BULLETIN**

**REVISION TO UH-1-98-ASAM-02, MANDATORY
INSPECTION AND REMOVAL OF ELEVATOR
ASSEMBLIES, ALL UH-1 SERIES AIRCRAFT**

Headquarters, Department of the Army, Washington, D.C.
19 November 1998

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NOTE

THIS PUBLICATION IS EFFECTIVE FROM 19 NOVEMBER 1998 TO 31 OCTOBER 2000.

NOTE

**THIS TB IS A REVISION TO AVIATION SAFETY ACTION MESSAGE
UH-1-98-ASAM-02**

1. Priority Classification. URGENT**NOTE**

See AR 95-1, paragraph 6-6.a., for noncompliance authority of major commanders.

a. Aircraft In Use. Upon receipt of this Technical Bulletin (TB), the condition status symbol of the cited aircraft will be changed to a **red horizontal dash //**. The **red horizontal dash //** may be cleared when the inspection of paragraph 8 below is completed. The affected aircraft shall be inspected as soon as practical but no later than the task/inspection suspense date. Failure to comply with the requirements of this TB within the time frame will cause the status symbol 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.

(1) **Surface/Air Shipment.** Same as paragraph 1.a.

(2) **Ferry Status.**

(a) Same as paragraph 1.a.

* This TB supersedes USAAMCOM Aviation Safety Action Message 021402Z, NOV 98, UH-1-99-ASAM-01 and 181421Z, NOV 97, UH-1-98-ASAM-02.

(b) Those aircraft that have a DD250 and are U.S. helicopters will be inspected prior to ferry to final destination.

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

f. Component/Parts In Stock at All Levels (Depot and Others) Including War Reserves. Upon receipt of this TB the material condition tags of all items in all condition codes listed in paragraph 6 shall be annotated to read "UH-1-99-ASAM-01 (TB1-1520-210-20-42) not complied with."

(1) **Material Located In Wholesale Stock.** N/A

(2) **Material Located In Retail Stock.** Report receipt of this TB IAW paragraph 14c(2). Upon receipt of this 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. Report compliance with this TB IAW paragraph 14d(2)

g. Components/Parts in Work. (Depot Level and Others) Same as paragraph 1.f.

2. Task/Inspection Suspense Date. Within next 10 flight hours or 14 days, whichever occurs first.

3. Reporting Compliance Suspense Date. No later than 20 November 1998 IAW paragraph 14.a. of this TB.

4. Summary of the Problem.

a. UH-1-98-ASAM-02 directed inspection and subsequent reporting of all UH-1 H/V aircraft for elevators manufactured by Chem Fab Corporation.

(1) Chem Fab elevators were believed to have spar tube abrasions caused by a drilling operation used in attaching the skin to the ribs during assembly. UH-1-98-ASAM-02 also mandated removal of all Chem Fab elevators no later than a one year from date of the inspection.

(2) In the period since UH-1-98-ASAM-02 was issued, additional analysis of the Chem Fab elevators has been completed. The drill marks on the Chem Fab elevator test specimens did not reduce the components fatigue strength. However, additional deficiencies were discovered that adversely affect the long term use of these parts. Chem Fab elevators were not manufactured IAW the technical data package. All elevators manufactured by Chem Fab Corporation shall be removed from service upon reaching the retirement life of 3,600 flight hours or no later than 15 October 2000, whichever occurs first.

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

c. The purpose of this TB is to: Revise UH-1-98-ASAM-02 to require mandatory removal of elevators manufactured by Chem Fab Corporation upon reaching the 3,600 flight hour retirement life, but no later than 15 October 2000.

5. End Items to be inspected. All UH-1 H/V aircraft

6. Assembly Components to be Inspected..

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Elevator Assembly, L/H	205-030-856-19	1560-00-996-3906
Elevator Assembly, R/H	205-030-856-21	1560-00-996-3905

7. Parts to be Inspected. N/A.

8. Inspection Procedures.

- a. Gain access to the elevator assembly.
- b. Identify and record the serial number on the data plate located on the underneath skin near the trailing edge on the inboard end of the elevator.
- c. For elevators with a "CF" serial number prefix, proceed with the correction procedures in paragraph 9.a.
- d. For elevators that do not have a "CF" serial number prefix, the inspection is complete.

9. Correction Procedures.

- a. For elevator assemblies with a "CF" serial number prefix, annotate the aircraft records to require the elevator to be removed from service upon reaching the 3,600 hour retirement life but not later than 15 October 2000.

NOTE

This TB does not prohibit installation of Chem Fab elevators from stock. However, all Chem Fab elevators, regardless of the date of installation, will be removed from service NLT 15 October 2000.

10. Supply/Parts and Disposition.

NOTE

All requisitions (previously) submitted as a result of UH-1-98-ASAM-02 shall be re-evaluated by the submitting organization and cancelled if necessary.

- a. **Parts Required.** Items cited in paragraph 6 may be required to replace defective items.
- b. **Requisitioning Instructions.** N/A.
- c. **Bulk and Consumable Materials.** N/A.
- d. **Disposition.** Demilitarize/Mutilate IAWTM 1-1500-328-23 any part/component removed at 3,600 hour retirement life or on 15 October 2000, whichever occurs first.

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

12. Application.

- a. **Category of Maintenance.** AVUM. Aircraft downtime will be charged to AVUM maintenance.
- b. **Estimated Time Required.**
 - (1) Total of 0.5 man-hours using 1 persons.
 - (2) Total of 0.5 hours downtime for one end item.
- c. **Estimated Cost Impact to the Field.**

NOMENCLATURE	P/N	NSN	QTY.	COST EA.	TOTAL \$
Elevator Assy, L/H	205-030-856-19	1560-00-996-3906	1	\$610.11	\$610.11
Elevator Assy, R/H	205-030-856-21	1560-00-996-3905	1	\$610.04	\$610.04

Total Cost Per Aircraft = \$1,221.14

- d. **TB/MWOs to be Applied Prior to or Concurrently with this Inspection.** N/A

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

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, forward a priority message, datafax or E-mail to CDR, AMCOM, ATTN: AMSAM-SF-A (SOF Compliance Officer) Redstone Arsenal, AL 35898-5222, IAW AR95-1. Datafax number is DSN 897-2111 or commercial (256) 313-2111. E-Mail address is <safeadm@redstone.army.mil>. The report will cite this TB/message 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). N/A.

c. Reporting Message Receipt Date (Spares).

(1) **Material In Wholesale Depot Storage.** N/A.

(2) **Material In Retail Storage.** N/A.

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

(1) **Material In Wholesale Depot Storage.** N/A

(2) **Material In Retail Storage.** N/A.

e. The following forms are applicable and are to be completed in accordance with DA PAM 738-751, 15 June 1992:

NOTE

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

(1) DA Form 2408-5-1, Equipment Modification Record (Elevator Assembly).

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

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

(4) DA Form 2408-14, Uncorrected Fault Record.

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

(6) DA Form 2408-16, Aircraft Component Historical Record.

(7) DA Form 2410, Component Removal and Repair/Overhaul Record.

(8) DD Form 1574/DD Form 1574-1, Serviceable Tag/Label - Materiel (color yellow). Annotate remarks block with "Inspected Serviceable IAW UH-1-99-ASAM-01 (TB 1-1520-210-20-42)."

(9) DD Form 1575/DD Form 1577-1, Unserviceable (condemned) Tag/Label -Materiel (color red). Annotate remarks block with "Condemned IAW UH-1-99-ASAM-01 (TB 1-1520-210-20-42) and mutilated IAW TM 1-1500-328-23."

(10) DD Form 1577-2/DD Form 1577-3, Unserviceable (reparable) Tag/Label -Materiel (color green). Annotate remarks block with "Unserviceable IAW UH-1-99-ASAM-01 (TB1-1520-210-20-42)."

15. Weight and Balance. N/A.

16. Points of Contact.

a. Technical point of contact for this TB is Mr. Steve Monaco, AMSAM-AR-E-I-B-U, DSN 645-0078 or commercial (256) 955-0078. Datafax is DSN 645-6590 or (256) 955-6590, E-mail <monaco-sd@redstone.army.mil>.

b. Logistical point of contact for this TB is Mr. Mike Haragan, AMSAM-DSA-UH-U, DSN 645-0211 or commercial (256) 955-0211. Datafax is DSN 645-6590 or (256) 955-6590. E-mail is <haraganmd@redstone.army.mil>.

c. Wholesale Materiel point of contact (Spares) is Ms. Donna Reeves, AMSAM-MMC-VS-UN, DSN 897-1142 or commercial (256) 313-1142, Datafax is DSN 897-1558 or (256) 313-1558. E-mail is <reevesdm@exchange1redstone.army.mil>.

d. Forms and records point of contact for this 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 <wal-deck-ab@redstone.army.mil>.

e. Safety point of contact for this TB is Mr. Robert Brock, AMSAM-SF-A, DSN 788-8632 or commercial (256) 842-8632, Datafax is DSN 897-2111 or (256) 313-2111. E-mail is <brock-rd@redstone.army.mil>.

f. Foreign Military Sales (FMS) recipients requiring clarification of action advised by this TB should contact either CW5 Joseph L. Wittstrom, Security Assistance Management, AMSAM-SA, DSN 897-0681 or commercial (256) 313-0681; E-mail <wittstrom-jl@redstone.army.mil> or Mr. Ronnie W. Sammons, AM-SAM-SA-CS-NF, DSN 897-0869 or (256) 313-0869; datafax is DSN 897-0411 or (256) 313-0411, E-mail <sammons-rw@redstone.army.mil> (Huntsville, AL. is GMT minus 5 hrs).

g. 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:

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THE METRIC SYSTEM AND EQUIVALENTS

NEAR 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



