

URGENT

*TB 1-2840-229-20-24

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

REVISION TO SAFETY OF FLIGHT UH-1-99-01, ALL UH-1 SERIES AIRCRAFT, SUSPENSE DATE FOR MANDATORY N2 SPUR GEAR REPLACEMENT

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

8 October 1999

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

NOTE

THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR
SUPERSEDED.

1. **Priority Classification.** URGENT.

NOTE

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

a. Aircraft in Use. Upon receipt of the message/TB whichever occurs first, the condition status symbol of the cited aircraft will be changed to a **Horizontal Red -**. The **Horizontal Red -** may be cleared when the inspection of paragraph 8 and the correction of paragraph 9 is completed. The affected aircraft shall be inspected as soon as practical but not later than the task/inspection suspense date. Failure to comply with the requirements of this message/TB within the time frame will cause the status symbol to be upgraded to a **Red X**.

b. Aircraft in Depot Maintenance. Aircraft will not be issued until compliance with this SOF has been completed.

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.** Same as paragraph 1.a.

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

*This TB supersedes USAAMCOM Safety of Flight (SOF) Message, 301143Z, SEP 99, UH-1-99-04.

f. **Component/Parts in Stock at All Levels (Depot and Others) Including War Reserves.** Upon receipt of the message/TB whichever occurs first, the material condition tags of all items in all condition codes listed in paragraph 6 shall be annotated to read "SOF UH-1-99-04 (TB 1-2840-229-20-24), Suspense Date for Mandatory N2 Spur Gear Replacement Not Complied With."

2. **Task/Inspection Suspense Date.** NLT 30 June 2000.

3. **Reporting Compliance Suspense Date.** No later than 22 October 1999 in accordance with paragraph 14.a. of this message/TB.

4. **Summary of the Problem.**

a. **Background.**

(1) UH -1-99-01 and TB 1-2840-229-20-21 established 30 September 1999 as the mandatory compliance date for installation of the coated spur gear, part number 1-070-062-06. Reports from units in the field have requested this date be extended due to manpower (installation team) and coated spur gear shortages.

(2) With the exception of the compliance date, this message does not impose any additional requirements to the above mentioned SOF and TB. All other requirements of those messages have not changed and are not superceded by this message/TB.

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

c. **The purpose of this TB is to:** Extend the mandatory compliance suspense date required IAW TB 1-2840-229-20-21 (UH-1-99-01) to be 30 June 2000.

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

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

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
T53-L-13B Engine	1-000-060-22	2840-00-134-4803

7. **Parts to be Inspected.**

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
N2 Spur Gear	1-070-062-04	3020-00-453-9441
N2 Spur Gear (Coated)	1-070-062-06	3020-01-455-7341

8. **Inspection Procedures.**

a. Inspect aircraft records to determine if the coated spur gear, P/N 1-070-062-06, NSN 3020-01-455-7341, has been installed IAW TB 1-2840-229-20-16 (UH-1-98-06).

(1) If TB 1-2840-229-20-16 (UH-1-98-06) has been complied with (coated spur gear installed), the inspection is complete and the requirements of this message/TB have been met.

(2) If TB 1-2840-229-20-16 (UH-1-98-06) has not been complied with (coated spur gear not installed), proceed to the correction procedures in paragraph 9.

9. **Correction Procedures.**

a. Update the aircraft status symbol remarks IAW paragraph 1 as required.

b. Extend the mandatory compliance suspense date required IAW TB 1-2840-229-20-21 (UH-1-99-01) to be 30 June 2000.

10. Supply/Parts and Disposition. N/A.

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

12. Application.

a. **Category of Maintenance.** AVUM.

b. **Estimated Time Required.**

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

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

c. **Estimated Cost Impact to the Field.** N/A.

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 SOF message/TB.** N/A.

13. References. TB 1-2840-229-20-21 (UH-1-99-01).

14. Recording and Reporting Requirements.

a. **Reporting Compliance Suspense Date (Aircraft).** Upon entering requirements of this 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 35898-5222, 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/TB number, date of entry in DA Form 2408-13-1, the aircraft MDS and serial numbers of aircraft in numerical order.

b. **Task/Inspection Reporting Suspense Date (Aircraft).** No special report of this inspection is required.

c. **Reporting message/TB Receipt (Spares).** N/A.

d. **The Following Forms are Applicable and are to be Completed in Accordance with DA Pamphlet 738-751, dated 15 Mar 1999:**

NOTE

Unit Level Logistics System-Aviation (ULLS-A) users will use applicable electronic "E" forms.

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

(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.

15. Weight and Balance. N/A.

16. Points of Contact.

a. Technical points of contact for this message/TB are.

(1) Primary – Mr. Mark Heitert, AMSAM-AR-EP, DSN 897-4964 or (256) 313-4964, datafax is 897-4961. E-mail is <heitertm@redstone.army.mil>.

(2) Alternate – Mr. Steve Monaco, AMSAM-AR-E-I-B-U, DSN 645-0078 OR (256) 955-0078, Datafax is 645-6590. E-mail is <steve.monaco@uh.redstone.army.mil>.

b. Logistical point of contact for this message/TB is Mr. Charles Elkins, AMSAM-DSA-UH-U, DSN 645-0073 or (256) 955-0073; Datafax is DSN 645-6590 OR (256) 955-6590; E-mail is <charlie.elkins@uh.redstone.army.mil>.

c. Wholesale materiel point of contact for this message/TB is Ms. Bonnie Winfrey, AMSAM-MMC-VS-UN, DSN 897-1080 or (256) 313-1080, Datafax is (256) 313-1558, E-mail is <winfrey-bj@exchange1.redstone.army.mil>.

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

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

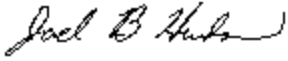
f. Foreign Military Sales (FMS) recipients requiring clarification of action advised by this message/TB should contact either CW5 Joseph L. Wittstrom, Security Assistance Management, AMSAM-SA, DSN 897-0681 or commercial (256) 313-0681; E-mail is <wittstrom-jl@redstone.army.mil>. Alternate POC is Mr. Ronnie W. Sammons, AMSAM-SA-CS-NF, DSN 897-0869 or (256) 313-0869; Datafax is DSN 897-0411 or (256) 313-0411; E-mail is <sammons-rw@redstone.army.mil>. Huntsville, Alabama is GMT minus 6 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 at <ls-lp@redstone.army.mil>, or by datafax at DSN 788-6546 or commercial (256) 842-6546. Instructions for sending a DA Form 2028 by E-mail may be found at the back of most Technical Manuals.

By Order of the Secretary of the Army:

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To be distributed in accordance with Initial Distribution Number (IDN) 313853 requirements for TB 1-2840-229-20-24.

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

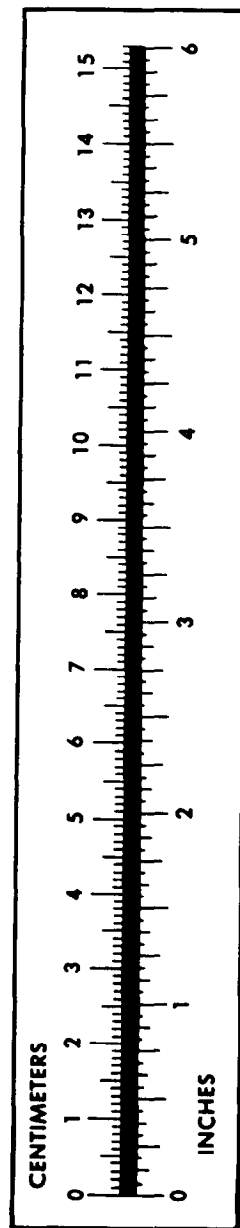
TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 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
arts	Liters	0.473
gallons	Liters	0.946
Ounces	Liters	3.785
Pounds	Grams	28.349
Short Tons	Kilograms	0.454
Pound-Feet	Metric Tons	0.907
Pounds per Square Inch	Newton-Meters	1.356
Miles per Gallon	Kilopascals	6.895
Miles per Hour	Kilometers per Liter	0.425
	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
gallons	Gallons	0.264
ounces	Ounces	0.035
pounds	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
Kilometers per Liter	Miles per Gallon	2.354
Kilometers per Hour	Miles per Hour	0.621



PIN: 077584-000