

URGENT

*TB 1-1520-210-20-57

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

UH-1H/V SERIES AIRCRAFT ONE-TIME INSPECTION OF ROTOR CONTROL PARTS KIT

Headquarters, Department of the Army, Washington, D. C.
21 December 2001

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

NOTE

THIS PUBLICATION SUPERSEDES TB 1-1520-1520-20-56. "ASAM" was inadvertently added to SOF number (UH-1-01-06) and needs to be omitted).

NOTE

THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.

NOTE

This is a Safety of Flight Message/TB issued IAW AR 95-1, Chapter 6, 1 Sep 97. This message/TB has not been transmitted to units subordinate to addressees. Addressees should immediately retransmit this message/TB to all subordinate units, activities, or elements affected or concerned. The retransmittal shall reference this message/TB. Action addresses will immediately verify this transmission to CDR, AMCOM, ATTN: AMSAM-SF-A (SOF Compliance Officer).

1. Priority Classification. URGENT.

NOTE

IAW AR 95-1, paragraph 6--6.a., 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 consequence of continued aircraft operation.

*This TB supersedes USAAMCOM Safety of Flight (SOF) Message 281724Z Aug 01, UH-1-01-06, TB 1-1520-210-20-56.

a. Aircraft in Use. Upon receipt of this message/TB, make the following entry on the DA Form 2408-13-1. Enter a **Red HORIZONTAL DASH //--//** status symbol with the following statement: "Inspect rotor control parts kit IAW UH-1-01-06 (TB 1-1520-210-20-57) within the next 10 flight hours, but NLT 27 September 2001." Clear the **RED HORIZONTAL DASH //--//** when the procedures IAW paragraphs 8 and 9 are completed. The affected aircraft shall be inspected as soon as practical but NLT 27 September 2001. Commanders who are unable to comply with the requirements of this message/TB within the timeframe specified will upgrade the affected aircraft status symbol to a **RED //X//**.

b. Aircraft in Maintenance.

(1) Aircraft in AVUM, AVIM, or Depot Level Maintenance. Commanders and facility Managers will not issue aircraft until they are in compliance with this message/TB.

(2) Aircraft at Contractor Facility. U. S. Helicopters will inspect DD 250 aircraft prior to those aircraft departing for ferry to final destination.

c. Aircraft In Transit.

(1) Surface/Air Shipment. Prior to first flight.

(2) Ferry Status. Same as paragraph 1A.

d. Maintenance Trainers (Category A and B). Not applicable.

e. Component/Parts in Stock at All Levels (Depot and Others) Including War Reserves. Upon receipt of this message/TB, Depot and Materiel Activity Commanders will ensure the materiel condition tags of all items in all conditions codes listed in paragraphs 6 and 7 are annotated to read: "UH-1-01-06, (TB 1-1520-210-20-57), Rotor Controls Parts Kit, Not Complied With".

(1) Wholesale Stock. Not applicable.

(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 8 and 9 on suspect materiel. Dispose of discrepant materiel will be IAW paragraph 10.

f. Components/Parts in Work. (Depot Level and Others). Not applicable.

2. Task/Inspection Suspense Date. Complete the inspection IAW paragraph 8 within next 10 flight hours but NLT 27 September 2001.

3. TAMMS Reporting Compliance Suspense Date. Report TAMMS compliance IAW paragraph 14.a.(1) no later than 31 August 2001.

4. Summary of Problem.

a. AMCOM has received information which indicates, in several instances, that the integrity of the Rotor Controls Parts Kit, P/N 204-1629-2, has been compromised. The Rotor Controls Parts Kit is flight safety part that consists of nineteen bolts (AN/NAS SPEC bolts), each serialized with the serial number of the kit. The bolts in this kit are replaced as a kit and are not intended to be replaced individually. Information has been received indicating that damaged, worn, or otherwise unserviceable bolts within the kit are being replaced with common AN/NAS bolts. Additionally, individual bolts are being broken out of Rotor Control Parts Kits to replace bolts on the aircraft. This not only creates a problem with record keeping, it prevents the broken open kit from being used as a complete kit in the future.

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

c. The Purpose of this Message/TB is to:

(1) Perform a one time inspection of the Rotor Control Parts Kit for unserialized bolts and/or mixed serial numbered bolts.

(2) Emphasize the requirement to replace rotor control bolts as a kit.

(3) Provide information concerning incorrect part number call outs in the TM 55-1520-210-23--1 and TM 55-1520-210-23P--1 for the Rotor Controls Parts Kit.

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

6. Assembly Components to be Inspected. Not applicable.

7. Parts to be Inspected.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Rotor Controls Parts Kit	204-1629-2	1615-00-225-5111

8. Inspection Procedures.

a. Gain access to the Rotor Controls Parts Kit bolts. The bolt applications/identification are as follows:

APPLICATION	PART NUMBER	QUANTITY
Mixing Level Scissors Tube	NAS1305-27D	2
Universal to Mixing Lever	NAS1306-34D	2
Pitch Link to Universal	NAS1306-27D	2
Pitch Horn to Pitch Link	NAS1306-32D	2
Scissors Tube to Scissors	NAS1305-27D	2
Scissors Pivot	NAS464P8-90	2
Scissors to Drive Link	NAS464P8-69	2
Cyclic Tubes to Swashplate	AN175-16	2
Collective Tube to Collective Lever	AN175-16	1
Drive Link to Swashplate	NAS1305-30D	2

NOTE

The serial numbers are permanently etched on each bolt in the Rotor Controls Parts Kit on one of the wrenching flats.

NOTE

Some bolts may be painted. It may be necessary to remove paint to read the serial numbers on the bolts.

b. Visually inspect each bolt in the Rotor Controls Parts Kit for the presence of serial numbers. Record all serial numbers found.

c. Review the aircraft DA Form 2408-16. Record the serial number of the Rotor Controls Parts Kit entered and assure that the entry reflects a retirement life of 600 hours.

d. If the serial numbers on all of the bolts are the same as the serial number listed for the Rotor Controls Parts Kit in the aircraft DA Form 2408-16, and the DA 2408-16 accurately reflects the appropriate 600 hours life for the kit, the inspection is complete. Proceed to paragraph 9.b.

e. Accomplish the correction procedures of paragraph 9 if any of the following conditions exist:

(1) Any bolt in the Rotor Controls Parts Kit does not contain a serial number.

(2) All bolts within the installed Rotor Controls Parts Kit do not exhibit the same serial number.

(3) The serial number recorded in the aircraft DA Form 2408-16 does not match the serial number of the installed Rotor Controls Parts Kit.

(4) The aircraft DA Form 2408-16 does not accurately reflect the 600 hours replacement life for the Rotor Controls Parts Kit.

9. Corrective Procedures.

CAUTION

Rotor Controls Parts Kits from older contracts in supply may not be serialized. Unserialized kits shall not be used. New Rotor Control Parts Kits are considered serviceable only if the kit is serialized and all bolts in the kit have the same serial number.

WARNING

Local procurement of Flight Safety Parts is not authorized. Procure replacement parts through normal supply channels.

NOTE

Controlled exchange of complete Rotor Controls Parts Kits is permitted, however, kit must pass inspection requirements of paragraph 8 and not exhibit excessive wear or damage to be considered serviceable. Care should be taken to properly document all forms and records with the appropriate time change information.

a. Replace Rotor Controls Parts Kits that fail the inspection of paragraph 8 with new/serviceable kits from supply per procedures of TM 55-1520-210-23-1.

b. When the inspection procedures of paragraph 8 and correction procedures (if required) of paragraph 9 are completed, the **RED HORIZONTAL DASH //--//** entry will be signed off and compliance with this message/TB will be entered on the aircraft DA Form 2408-15.

c. TM 55-1520-210-23-1, Chapter 5, will be changed to include the following "WARNING" for each location that a Rotor Controls Parts Kit bolt is referenced.

WARNING

The Rotor Controls Parts Kit, P/N 204-1629-2, must be replaced as a kit with all bolts having the same serial number. Replacement of individual bolts within the kit is not authorized.

d. The information contained in Figure 1-15, TM 55-1520-210-23-1, contains several errors in the part numbers for the Rotor Controls Parts Kit. Refer to paragraph 8.a. for correct part number information.

10. Supply/Parts and Disposition.

a. Parts Required. Items cited in paragraph 12.c. 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) "X10" (X-RAY-ONE--ZERO).

NOTE

Project Code "X10" is required to track and establish a data base of stock fund expenditures incurred by the field as a result of message/TB actions.

c. Bulk and Consumable Materials. Not applicable.

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 (AR 200-1).

11. Special Tools, Jigs and Fixtures Required. Not applicable.

12. Application.

a. Category of Maintenance. AVUM. Aircraft downtime will be charged to AVUM maintenance. Report aircraft non-mission capable maintenance (NMCM) while undergoing inspection and correction IAW this message/TB. Report aircraft Non-Mission Capable Supply (NMCS) while waiting for parts IAW this message.

b. Estimated Time Required.

(1) Time required to conduct the inspections: Total of 2 man-hours using 1 person.

(2) Time for Repair/Replacement:

(a) Total of 4 man-hours using 1 person.

(b) Total of 4 hours downtime for one end item.

c. Estimated Cost Impact to the Field.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER	QTY.	COST EA.
Parts Kit, Rotor Controls	204-1629-2	1615-00-225-5111	1	\$22.66
TOTAL COST PER AIRCRAFT				\$22.66

d. TB/MWOs to be Applied Prior to or Concurrently with this Inspection. Not applicable.

e. Publications which Require Change as a Result of this Inspection. TM 55-1520-210-23-1 and TM 55-1520-210-23P-1 shall be changed to reflect this message/TB. A copy of this message/TB shall be inserted in the front of appropriate TM as authority to implement the change until the printed change is received.

13. References.

- a. DA PAM 738-751, 15 Mar 99.
- b. TM 55-1520-210-23-1, 30 Sep 87.
- c. TM 55-1520-210-23P-1, 27 Feb 81.
- d. TM 1-1500-328-23, 30 Jul 99.

14. Recording and Reporting Requirements.

a. Aircraft.

(1) Reporting Compliance Suspense Date. Upon entering requirements of this message/TB on DA Form 2408-13-1 on all subject mission design series (MDS) aircraft, Commanders will 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, NLT date specified in paragraph 3. Datafax number is DSN 897-2111 or commercial (256) 313-2111. E-mail address is <safeadm@redstone.army.mil>. The report will cite UH-1-01-06 (TB 1-1520-210-20-57), date of entry on DA Form 2408-13-1, aircraft MDS, and serial numbers of aircraft in numerical order.

(2) Task/Inspection Reporting Suspense. No special report of the results of this inspection is required.

b. Wholesale Spare Parts/Assemblies. Not applicable.

c. Retail Spare Parts/Assemblies. Not applicable.

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

NOTE

Unit Level Logistics System--Aviation (ULLS-A) users will use applicable electronic "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) DA Form 2408-16, Aircraft Component Historical Record.

(5) DA Form 2410, Component Removal and Repair/Overhaul Record (only if kit is removed/replaced).

(6) DD Form 1577/DD Form 1577-1, Unserviceable (Condemned) Tag/Label - Materiel (Color Red). Annotate remarks block with "Condemned IAW UH-1-01-06 (TB 1-1520-210-20-57) and Mutilated IAW TM 1-1500-328-23".

15. Weight and Balance. Not applicable.

16. Points of Contact:

a. Technical point of contact for this TB is: Mr. Ralph Vemmer, AMSAM-RD-AE-I-D-U, DSN 645-0663 or Commercial (256) 955-0078. Datafax is DSN 955-0663 or Commercial (256) 313-3818. E-mail is <ralph.vemmer@UH.redstone.army.mil>.

b. Logistical point of contact for this TB is Mr. Howard Reeves, AMSAM-DSA-UH-U, DSN 645-0624 or Commercial (256) 955-0624. Datafax is DSN 897-3805 or Commercial (256) 313-3805. E-mail is <howard.reeves@UH.redstone.army.mil>.

c. Wholesale Materiel Point of Contract (Spares) is MAJ Scott Waggoner, Defense Supply Center Richmond (DSCR), DSN 695-6389 or (804) 279-6389. Datafax is DSN 695-5695. E-mail is <swaggoner@dscr.dla.mil>.

d. Forms and Records point of contact for this TB is: Ms. Ann Waldeck, AMSAM-MMC-MA-NM, 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 for this TB are:

(1) Primary - Mr. Randall Rushing, (SAIC), AMSAM-SF-A, DSN 897-2092 or (256) 313-2092. Datafax is DSN 897-2111 or Commercial (256) 313-2111. E-mail is <randall.rushing@redstone.army.mil>.

(2) Alternate - Mr. Signey Hernandez, AMSAM-SF-A, DSN 897-2094 or Commercial (256) 313-2094. Datafax is DSN 897-2111 or Commercial (256) 313-2111. E-mail is <signey.hernandez@redstone.army.mil>.

f. Foreign Military Sales recipients requiring clarification of action advised by this TB should contact:

(1) Primary -- Mr. Ronnie W. Sammons, AMSAM-SA-CS-NF, DSN 897-6856 or Commercial (256) 313-6856. Datafax is DSN 897-6630 or Commercial (256) 313-6630. E-mail is <ronnie.sammons@redstone.army.mil>

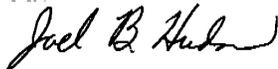
(2) Alternate - Mr. Paul W. Tarr, AMSAM-SA-CS-NF, DSN 897-6861 or Commercial (256) 313-6861. Datafax is DSN 897-6630 or Commercial (256) 313-6630. E-mail is <paul.tarr@redstone.army.mil>. Huntsville, AL, is GMT minus 5 hours.

g. After hours contact the 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-MA-NP, Redstone Arsenal, Alabama 35898-5000. A reply will be furnished to you. You may also send in your comments electronically to our E-mail address at <2028@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:

Official: - - - - -



JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
0134101

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

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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

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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

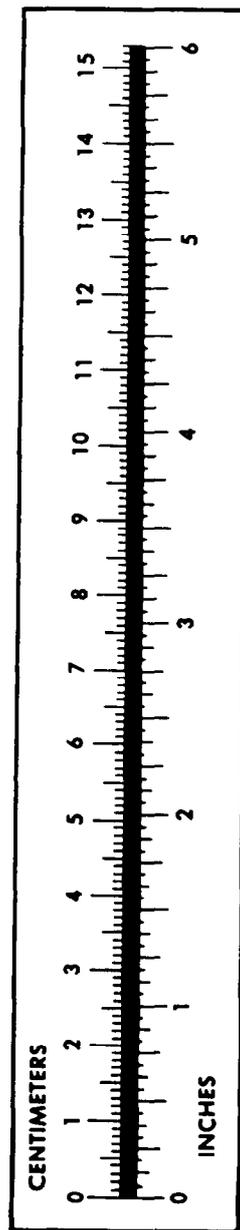
TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 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: 079452-000